Date Issued: March 1, 2024

**CITY OF NEW BEDFORD**
**Department of Public Infrastructure**
# ADDENDUM # 1
The City of New Bedford issues Addendum # 1 for
**Buttonwood Brook Water Quality Improvements**
**Bid No. 24450095**

City of New Bedford
Department of Public Infrastructure
1105 Shawmut Avenue
New Bedford, MA 02740

TO: All Bidders of Record

RE: City of New Bedford, Massachusetts

Phase 1- Buttonwood Brook Water Quality Improvements
Bid No. 24450095

Receipt of General Bids: 2:00 PM, Thursday, March 14, 2024

This Addendum shall be part of the Contract Documents for the above referenced project.

Acknowledge receipt of this Addendum by inserting its number and date in the space provided on Page 2 of 9 of the Bid Form. Failure to do so may subject the bidder to disqualification.

CHANGES TO BID OPENING DATE

Please note the change in Bid Opening date.

Please note Section 00100 Instructions to Bidders Article 8.2. "Written clarifications or interpretations will be issued by Addenda not later than five days before the bid opening date."

GENERAL

A. A pre-bid conference was held for the Phase 1- Buttonwood Brook Water Quality Improvements on February 8, 2024.

B. During the pre-bid conference, questions were asked regarding the project. Answers to those questions are provided below.

C. This Addendum includes the following attachments: Geotechnical Report, Specification Section 010250, List of Event Dates Scheduled at the Buttonwood Community Center.

SPECIFICATIONS

Section 00010 – Invitation to Bid

Invitation to Bid Section 00020 page 1, first paragraph, first line, DELETE "Sealed Bids for Phase 1 – Buttonwood Brook Water Quality Improvements project will be received electronically by the City of New Bedford, Massachusetts (Owner), acting through its Department of Public Infrastructure, at via the Owner's Solicitation webpage on Bid Net Direct at https://www.bidnetdirect.com/massachusetts/newbedford until 2:00 PM, March 7, 2024." and INSERT "Sealed Bids for Phase 1 – Buttonwood Brook Water Quality Improvements project will be received electronically by the City of New Bedford, Massachusetts (Owner), acting through its Department of Public Infrastructure, at via the Owner's Solicitation webpage on Bid Net Direct at https://www.bidnetdirect.com/massachusetts/newbedford until 2:00 PM, March 14, 2024.

Invitation to Bid Section 00020 page 1, third paragraph, DELETE "Sealed bids will be received electronically by the Purchasing Department until 3:00 PM, March 7, 2024." and INSERT "Sealed bids will be received electronically by the Purchasing Department until 3:00 PM, March 14, 2024."

Section 00800 SC-6.02.C

Fourth line, INSERT the following sentence immediately after "or scheduled extended work weeks":

"Rejection of request does not warrant a claim for delay, time extension or additional cost."

Section 010250

DELETE Section 010250 in its entirety and REPLACE with attached Section 010250.

QUESTIONS RECEIVED BY THE PURCHASING DEPARTMENT

Text shown in "*italics*" indicates question asked. Text shown immediately following indicates response to question asked.

A. *What is the anticipated contract value for the construction?*

Estimated construction cost is $825,000.

PRE-BID CONFERENCE QUESTIONS

Text shown in "*italics*" indicates question asked. Text shown immediately following indicates response to question asked.

A. *When are questions due by?*

The last day for questions was February 23, 2024. Because of the change in the timeline described in this Addendum, the last day for questions is now March 7, 2024.

B. *Will there be any reduction in scope?*
A reduction in scope is not anticipated.

C. *Will periodic closures of Community Center be allowed?*
Some periodic closures will be allowed. The contractor shall coordinate any closures with the City. A list of scheduled events is included as an attachment to this addendum. Refer to Sections 010460 and 011700 for additional clarification.

D. *When is the construction start date?*
Mid April is anticipated but it will depend on bid opening. The contract is for 365 days.

E. *When is the planting window?*
Spring -Deciduous material March 21 – May 1
Evergreen material April 15 – June 1
Fall - Deciduous material October 1 – December 1
Evergreen Material August 15 – October 15
Refer to Section 329300

F. *Is grass cutting included?*

Yes, refer to specification Section 329200 4.1 for the maintenance requirements.

G. *Is Contractor ordering and installing site furniture?*

Yes, refer to Section 129300.

H. *Will there be additional work on Fuller Parkway?*

Yes, it will be included in a subsequent addendum.

I. *What is the goose protection fence?*
It is a fence to protect plantings and lawn areas while they are establishing from Geese coming from the Pond. See drawings and Section 323127.

J. *Will regraded areas east of the parking lot get loam an seed?*
Refer to plans and specification Section 329200. There is loam and seed for disturbed areas. Areas that are not disturbed within the limit of work, the lawn will be refurbished.

K. *Is there test pit information?*

Geotechnical report is included as an attachment to this addendum.

L. *Contractor asked for means of protection of tree near Community Center entrance.*

Refer to Section 320190 Part 3 for means of tree protection.

I HEREBY CERTIFY THAT I HAVE RECEIVED THE FOLLOWING ADDENDUM

ADDENDUM#'S_____

_____
Person submitting proposal

_____
Company Name

Please include this form with your submission, if applicable.

GEI Consultants

Consulting Engineers and Scientists

June 10, 2021
Project 2101938

Ms. Danielle Spicer, P.E.
Green International Affiliates, Inc.
239 Littleton Road, Suite 3
Westford, MA 01886

Dear Ms. Spicer:

Re: **Results of Test Pits and Laboratory Testing**
**Proposed Stormwater Improvements**
**Buttonwood Senior Center**
**New Bedford, Massachusetts**

This letter presents the results of test pits and laboratory testing performed to support the design of a proposed stormwater improvements at the Buttonwood Senior Center in New Bedford, Massachusetts.

## Scope of Work

Our scope of work consisted of the following:

- Observed two test pits excavated by the City of New Bedford Department Public Works.
- Performed combined mechanical sieve and hydrometer analyses on five soil samples collected from the test pits to evaluate their suitability for stormwater infiltration.
- Determined the hydrologic soil groups based on the laboratory testing of the soils and made observations of probable high groundwater levels for use in designing the infiltration systems.
- Prepared this letter presenting the results of the explorations and the laboratory testing.

## Exploration Program

The City of New Bedford excavated two test pits (TP1 and TP2) at the site on May 19, 2021. A GEI representative observed and documented the Test Pits. Test Pit logs are provided in Appendix A. Test Pit locations are shown in Figure 1.

The test pits were excavated in the general areas of proposed stormwater improvements and were marked out in the field by a representative of the City of New Bedford. The locations and ground surface elevations of the completed test pits were surveyed by the City of New Bedford.


GEI Consultants, Inc.
400 Unicorn Park Drive, Woburn, MA 01801
781.721.4000

## Subsurface Conditions

TP1 encountered about 0.7 feet of silty sand topsoil overlying about 1.5 feet of silty sand fill overlying natural silty sand with gravel to the termination depth of 6.5 feet. The test pit exposed a 2-inch diameter steel pipe at a depth of about 1.6 feet. The pipe was running parallel to the edge of the adjacent paved parking area. The pipe appeared to be an old abandoned gas line. TP2 encountered about 1-foot of silty sand topsoil, overlying about 1-foot of silty sand subsoil, overlying natural silty sand with gravel to the termination depth of 7.5 feet. There were stumps and manmade debris in the topsoil layer.

## Groundwater Levels

Groundwater was not encountered in the test pits. In addition, no soil mottling (indicative of previous seasonal high groundwater levels) was observed in TP1. Soil mottling indicative of previous seasonal high groundwater was observed in TP2 at a depth of about four feet.

## Laboratory Testing

We performed five mechanical sieve and hydrometer analyses on soil samples collected from the test pits. The results of the laboratory tests are provided in Appendix B.

## Soil Descriptions and Infiltration Rates at the Stormwater Infiltration Basin Test Pits

Soil descriptions on the test pit logs (Appendix A) and on the individual grain-size distribution reports (Appendix B) are based on the Unified Soil Classification System (USCS). Also included in Appendix B is a figure that provides the results of the grain-size analyses based on the United States Department of Agriculture (USDA) Soil Description System. The USDA soil descriptions were used to determine soil texture class, National Resource Conservation Services (NRCS) hydrologic soil group, and estimated infiltration rates (Rawls Rate), as described in the Massachusetts Stormwater Handbook. The soil texture class, hydrologic soil group, and Rawls Rates are provided in Table 1.

Please call Steve Sarandis at 781-264-8905 if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Stephen J. Sarandis, P.E.
Geotechnical Engineer

Richard F. Tobin, P.E.
Senior Project Manager

SJS/RFT:jam
\\geiconsultants.com\data\Data_Storage\Working\GREEN INTERNATIONAL AFFILIATES\2101938 Stormwater Improvements New Bedford\06_Letter Report\Stormwater Results Ltr.docx

Attachments:
Table 1 – Exploration Data and Infiltration Rates
Figure 1 – Test Pit Location Plan
Appendix A – Test Pit Logs
Appendix B – Mechanical Sieve and Hydrometer Analyses Results for Stormwater Design

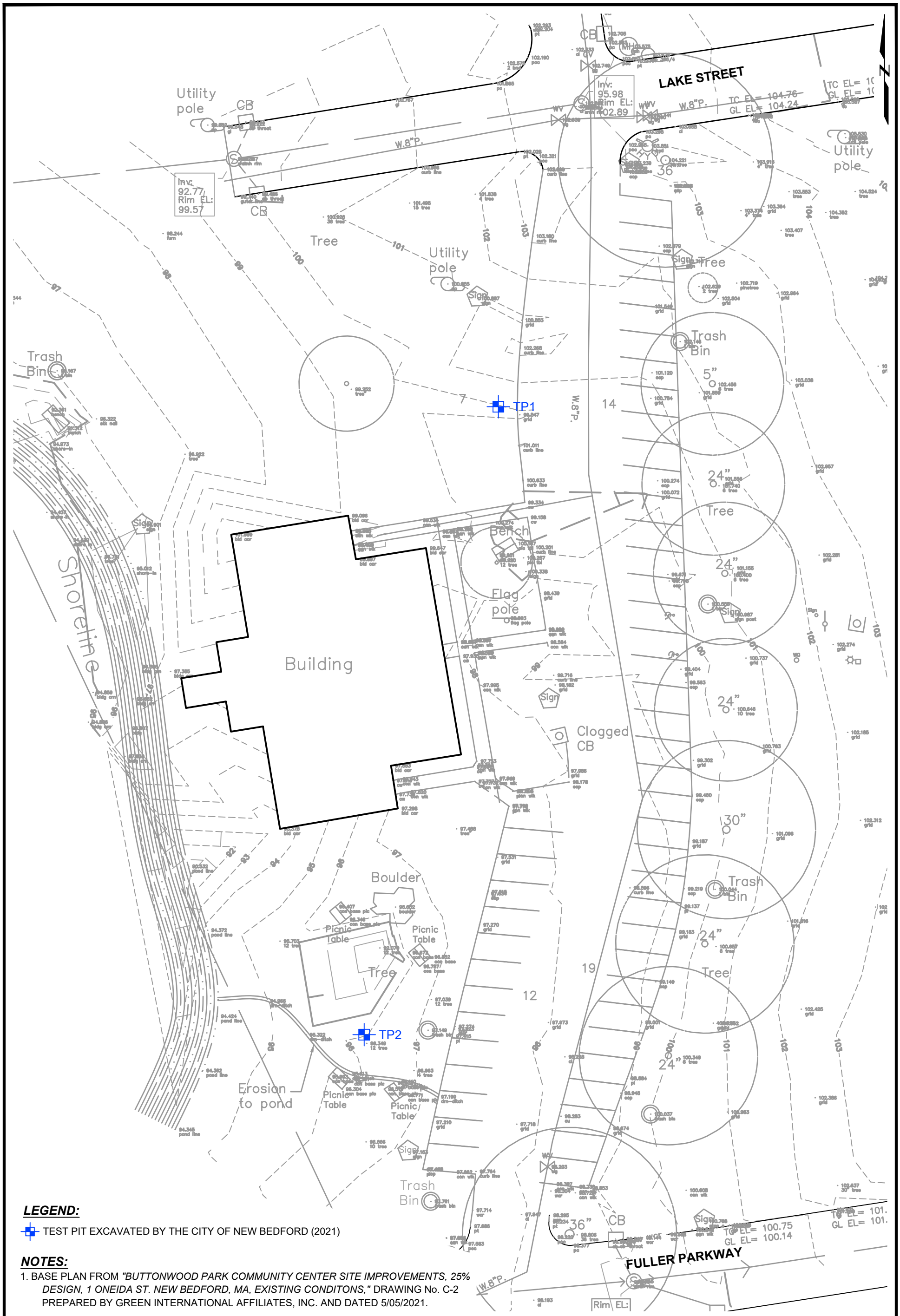
# Table

**Table 1. Exploration Data and Infiltration Rates**
**Proposed Stormwater Improvements**
**Buttonwood Senior Center**
**New Bedford, Massachusetts**

| Test Pit Number | Approx. Ground Surface Elevation[1, 2] | Bottom of Test pit | | Layer Depth | Field Description of Soil | Soil Horizon | USDA Soil Texture[3] | NRCS Hydrologic Soil Group | Infiltration Rate[4] | Est. Depth to Probable High Water[5] |
|---|---|---|---|---|---|---|---|---|---|---|
| | (ft) | Depth (ft) | El. (ft) | (ft) | | | | | (in/hr) | (ft) |
| TP1 | 99.9 | 6.5 | 93.4 | 0.0 - 0.7 | SILTY SAND(SM) ~70% mostly fine to medium sand,~20% slightly plastic fines,~10% fine gravel, organics, Dk. Brown <Top Soil> | (Fill) | NA | NA | -- | >6.5 |
| | | | | 0.7 - 2.2 | SILTY SAND (SM) 47.7% mostly fine to medium sand, 44.9% slightly plastic fines,~7.4% fine gravel, occ. pockets of dk. Brown silty sand. Two cobbles, ~ 10 inches. Lt. Brown <Fill> | (Fill) | Sandy Loam | B | 1.02 | |
| | | | | 2.2 - >6.5 | SILTY SAND WITH GRAVEL (SM) 44.6% mostly fine to medium sand, ~30.8% slightly plastic fines, 24.6% fine to coarse gravel, compact, lt gray. | C | Sandy Loam | B | 1.02 | |
| TP2 | 96.3 | 7.5 | 88.8 | 0.0 - 1.0 | SILTY SAND(SM) 55.5% mostly fine to medium sand, 36.8% slightly plastic fines,~7.7% fine gravel, roots, stumps, debris, Dk. Brown <Top Soil> | A | Sandy Loam | B | 1.02 | 4 |
| | | | | 1.0 - 2.0 | SILTY SAND (SM) 53.5% mostly fine sand, 36.1% slightly plastic fines, 10.4% fine gravel, orange-brown. | B | Sandy Loam | B | 1.02 | |
| | | | | 2.0 - >7.5 | SILTY SAND WITH GRAVEL (SM) 49.5% fine to coarse sand, 30.6% non plastic fines, ~19.9% fine to coarse gravel, compact, lt gray. <Grain Size Test> Some minor mottles observed at 2.5 feet. Frequent mottles observed at four feet. | C | Sandy Loam | B | 1.02 | |

**Notes:**
1. Elevation datum is the North American Vertical Datum (NAVD) of 1988.
2. Ground surface elevations surveyed by the City of New Bedford.
3. USDA soil texture is derived from Fig. 2.3.2, of the Massachusetts Stormwater Handbook (Vol 3, Ch. 1) using the results of grain size tests performed on soil samples obtained from the borings.
4. Infiltration rate is derived from Table 2.3.3, of the Massachusetts Stormwater Handbook (Vol. 3, Ch.1) using the results of grain size tests performed on soil samples obtained from the test pits.
5. Estimated depths to Probable High Water is based on visual observations of test pits and signs of mottling in the soils exposed on the sidewalls of the test pit.

# Figure




**LEGEND:**

TEST PIT EXCAVATED BY THE CITY OF NEW BEDFORD (2021)

**NOTES:**

1. BASE PLAN FROM *"BUTTONWOOD PARK COMMUNITY CENTER SITE IMPROVEMENTS, 25% DESIGN, 1 ONEIDA ST. NEW BEDFORD, MA, EXISTING CONDITONS,"* DRAWING No. C-2 PREPARED BY GREEN INTERNATIONAL AFFILIATES, INC. AND DATED 5/05/2021.

0 30 60

SCALE, FEET

Proposed Stormwater Improvements
Buttonwood Senior Center
New Bedford, Massachusetts

Green International Affiliates, Inc.
Westford, Massachusetts

GEI Consultants

TEST PIT LOCATION PLAN

Project 2101938 | June 2021 | Fig. 1

CLINGEN, PAUL B:\Working\GREEN INTERNATIONAL AFFILIATES\2101938 Stormwater Improvements New Bedford\00_CAD\Figures\Gt\2101938-01.dwg - 6/4/2021

# Appendix A

## Test Pit Logs

# TEST PIT LOG

# TP1

| | | | | | |
|---|---|---|---|---|---|
| **Project** | Proposed Stormwater Improvements - North Road | | | **PG.** 1 **OF** 1 | |
| **City/Town** | City New Bedford | | | **Location** | See Plan |
| **Client** | Green International Affiliates, Inc. | | | | |
| **Contractor** | City of Bedford | | | **Ground El.** | 99.9 |
| **Equipment/Reach** | John Deere 410L/ ~10 feet | | | **Datum** | NAVD88 |
| **Operator** | Mike Barboza | **GEI Rep** | S. Sarandis | **GEI Proj. No.** | 2101938 |
| **Weather** | Sunny 70's | | | **Date** | 5/19/2021 |

| Depth | Sample No. and Type | Sample Depth (ft) | Soil Description |
|---|---|---|---|
| 1 | S1 (bag) | 1.5' | 0 - 0.7': SILTY SAND(SM) ~70% mostly fine to medium sand,~20% slightly plastic fines,~10% fine gravel, organics, Dk. Brown <Top Soil> |
| 2 | | | 0.7' - 2.2': SILTY SAND (SM) 47.7% mostly fine to medium sand, 44.9% slightly plastic fines,~7.4% fine gravel, occ. pockets of dk. Brown silty sand. Two cobbles, ~ 10 inches. Lt. Brown <Fill> <Grain Size Test> |
| 3 | S2 (bag) | 3.0' | |
| 4 | | | 2.2 - .>6.5': SILTY SAND WITH GRAVEL (SM) 44.6% mostly fine to medium sand, ~30.8% slightly plastic fines, 24.6% fine to coarse gravel, compact, lt gray. <Grain Size Test> |
| 5 | | | |
| 6 | | | |
| 7 | | | Bottom of test pit at 6.5 ft.<br>Test pit dry at completion<br>Did not observe any mottles<br>Test pit backfilled with the excavated soil placed in lifts and tamped with the excavator bucket. |
| 8 | | | |
| 9 | | | |
| 10 | | | |

**Notes:**

1. Encountered 2-inch diameter steel pipe at a depth of 1.6 feet. Pile ran parallel to the curb line. Pipe was about 10.6 feet from front edge of curb.

**Pit Dimensions (ft)**

| | |
|---|---|
| **length** | 6 |
| **width** | 3 |
| **depth** | 6.5 |

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Test Pit 1 - In progress.  Pipe visible on far side of excavation

Test Pit 1 - Excavation complete.

# TEST PIT LOG

# TP2

| | | | | | |
|---|---|---|---|---|---|
| **Project** | Proposed Stormwater Improvements - North Road | | | **PG.** 1 **OF** 1 | |
| **City/Town** | City New Bedford | | | **Location** | See Plan |
| **Client** | Green International Affiliates, Inc. | | | | |
| **Contractor** | City of Bedford | | | **Ground El.** | 96.3 |
| **Equipment/Reach** | John Deere 410L/ ~10 feet | | | **Datum** | NAVD88 |
| **Operator** | Mike Barboza | **GEI Rep** | S. Sarandis | **GEI Proj. No.** | 2101938 |
| **Weather** | Sunny 70's | | | **Date** | 5/19/2021 |

| Depth | Sample No. and Type | Sample Depth (ft) | Soil Description |
|---|---|---|---|
| 1 | | | 0 - 1.0': SILTY SAND(SM) 55.5% mostly fine to medium sand, 36.8% slightly plastic fines,~7.7% fine gravel, roots, stumps, debris, Dk. Brown <Top Soil> <Grain Size Test> |
| 2 | | | 1.0' - 2.0': SILTY SAND (SM) 53.5% mostly fine sand, 36.1% slightly plastic fines, 10.4% fine gravel, orange-brown. <Grain Size Test> |
| 3 | | | 2.0 ->7.5': SILTY SAND WITH GRAVEL (SM) 49.5% fine to coarse sand, 30.6% non plastic fines, ~19.9% fine to coarse gravel, compact, lt gray. <Grain Size Test> Some minor mottles observed at 2.5 feet. Frequent mottles observed at four feet. |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | Bottom of test pit at 7.5 ft.<br>Test pit dry at completion<br>Frequent mottles observed starting at 4 feet.<br>Test pit backfilled with the excavated soil placed in lifts and tamped with the excavator bucket. |
| 9 | | | |
| 10 | | | |

**Notes:**

**Pit Dimensions (ft)**

| | |
|---|---|
| **length** | 11 |
| **width** | 4 |
| **depth** | 7.5 |

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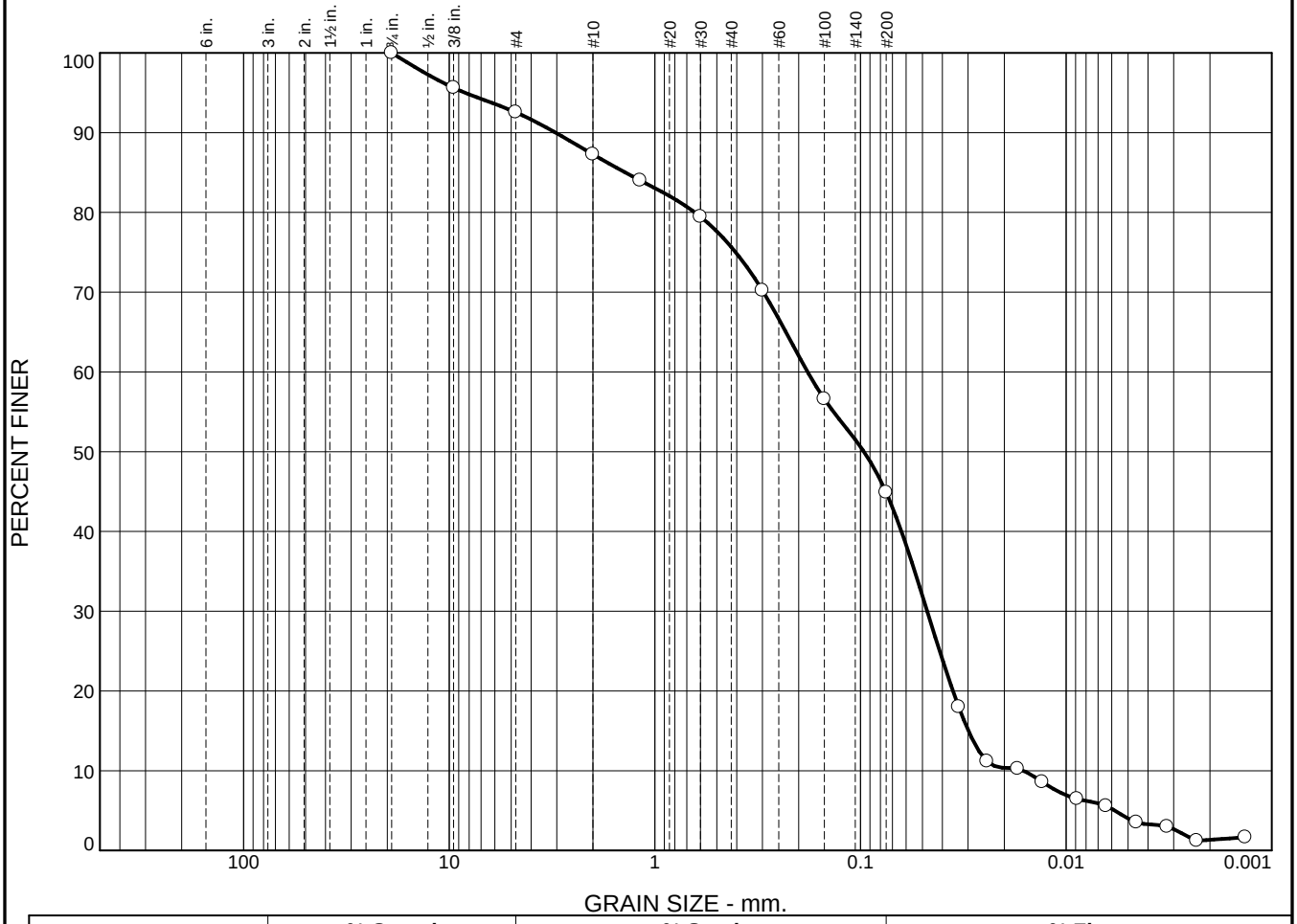
Test Pit 2 - In progress.

Test Pit 2 - Excavation complete.

# Appendix B

## Mechanical Sieve and Hydrometer Analyses Results for Stormwater Design

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 0.0 | 7.4 | 5.3 | 11.6 | 30.8 | 40.9 | 4.0 |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 1.3921 | 0.1807 | 0.0963 | 0.0474 | 0.0299 | 0.0161 | 0.77 | 11.20 |

| Material Description | USCS | AASHTO |
|---|---|---|
| ○ Silty SAND | SM | |

**Project No.** 2101938 **Client:** Green International Affiliates, Inc.

**Project:** Buttonwood Senior Center

○ **Source of Sample:** TP1 **Depth:** 1.5 ft **Sample Number:** S1

**Remarks:**

○As Received WC=13.5%

Fines classified visually

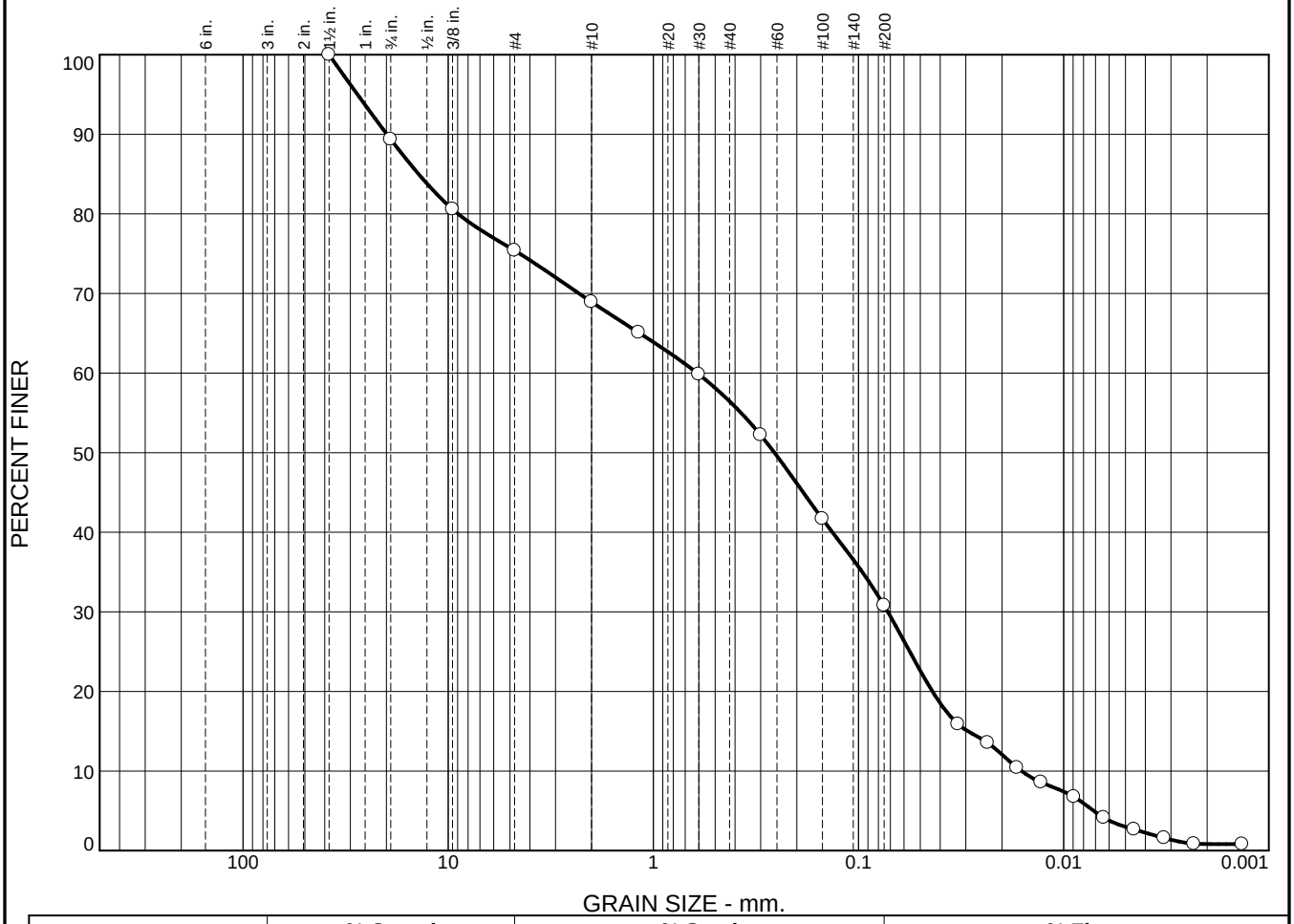

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801


GEI Consultants

**Figure**

**Tested By:** MA **Checked By:** EF

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 10.6 | 14.0 | 6.5 | 12.4 | 25.7 | 27.8 | 3.0 |
| | | | | | | | | |
| | | | | | | | | |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 13.9452 | 0.6115 | 0.2571 | 0.0719 | 0.0293 | 0.0161 | 0.53 | 38.04 |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Material Description | USCS | AASHTO |
|---|---|---|
| ○ Silty SAND with Gravel | SM | |

**Project No.** 2101938 **Client:** Green International Affiliates, Inc.

**Project:** Buttonwood Senior Center

○ **Source of Sample:** TP1 **Depth:** 3.0 ft **Sample Number:** S2

**Remarks:**

○As Received WC=7.8%

Fines classified visually

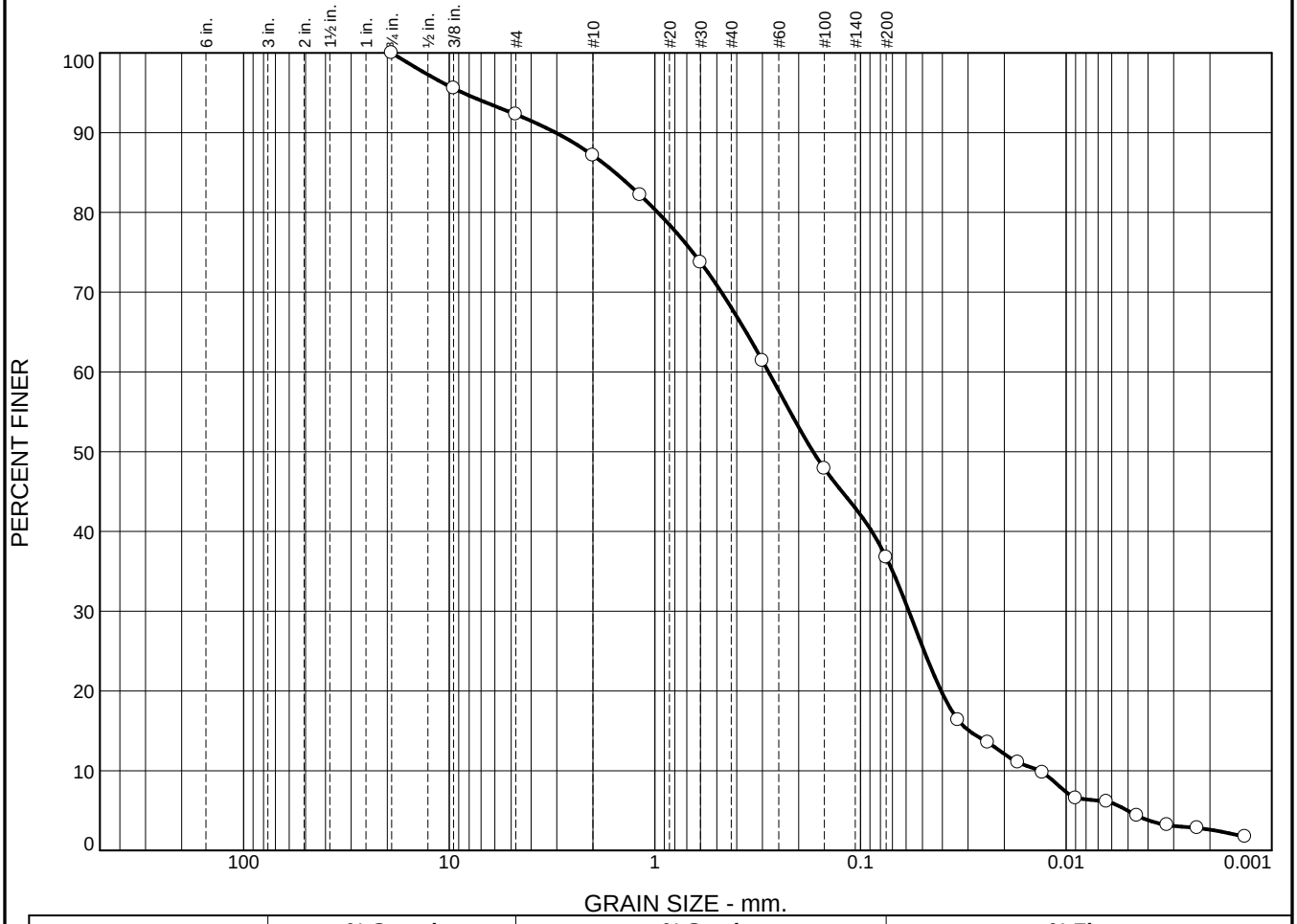

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801


GEI Consultants

**Figure**

**Tested By:** MA **Checked By:** EF

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 0.0 | 7.7 | 5.2 | 19.0 | 31.3 | 31.8 | 5.0 |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 1.5630 | 0.2801 | 0.1700 | 0.0582 | 0.0297 | 0.0135 | 0.90 | 20.76 |

| Material Description | USCS | AASHTO |
|---|---|---|
| ○ Silty SAND | SM | |

**Project No.** 2101938 **Client:** Green International Affiliates, Inc.

**Project:** Buttonwood Senior Center

○ **Source of Sample:** TP2 **Depth:** 0.5 ft **Sample Number:** S1

**Remarks:**

○As Received WC=18.1%

Fines classified visually

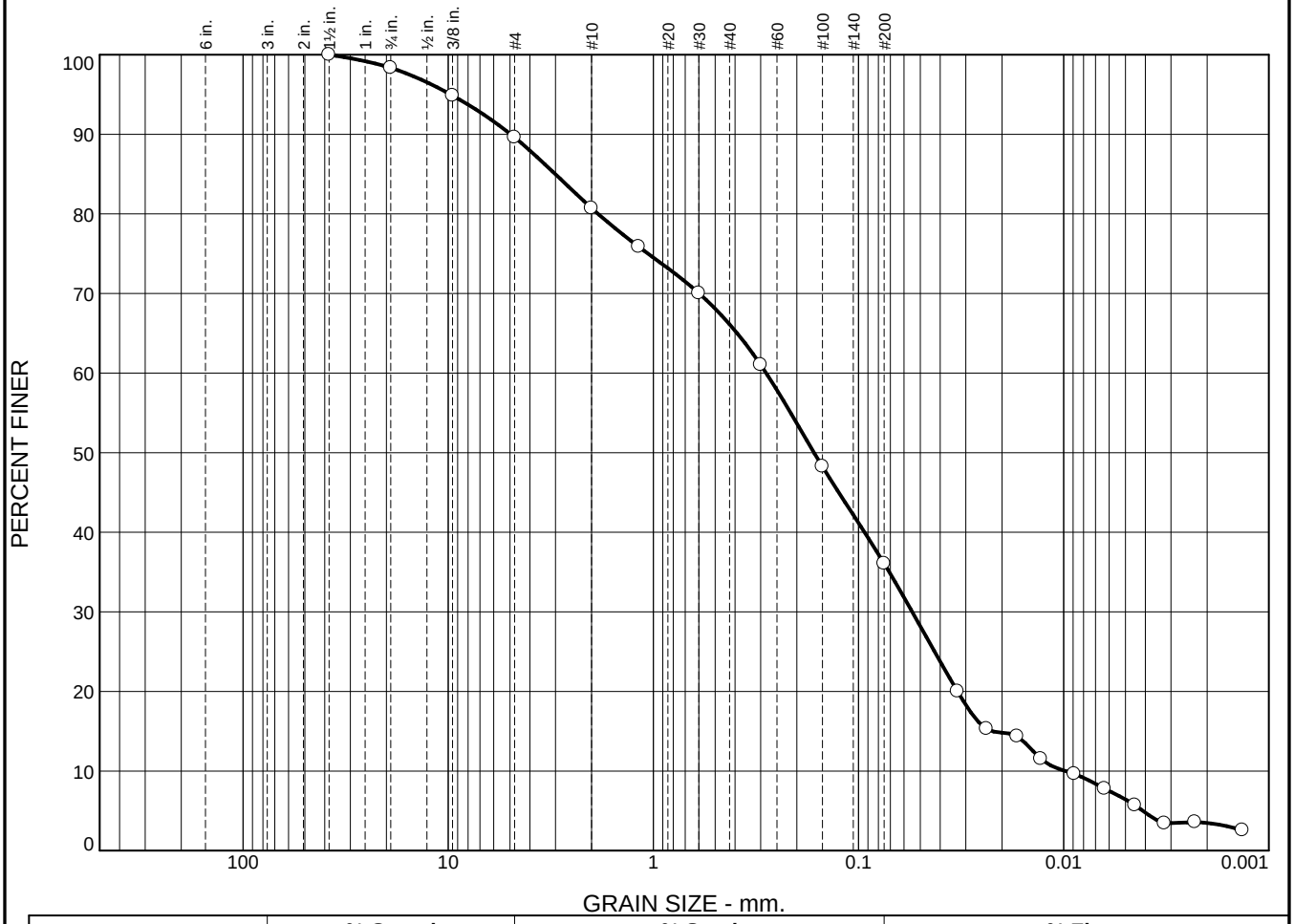

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801


GEI Consultants

**Figure**

**Tested By:** MA **Checked By:** EF

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 1.7 | 8.7 | 8.9 | 14.6 | 30.0 | 29.7 | 6.4 |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 3.0070 | 0.2820 | 0.1647 | 0.0547 | 0.0223 | 0.0098 | 1.08 | 28.78 |

| | Material Description | USCS | AASHTO |
|---|---|---|---|
| ○ | Silty SAND | SM | |

**Project No.** 2101938 **Client:** Green International Affiliates, Inc.

**Project:** Buttonwood Senior Center

○ **Source of Sample:** TP2 **Depth:** 1.5 ft **Sample Number:** S2

**Remarks:**

○As Received WC=18.8%

Fines classified visually


GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801


GEI Consultants

**Figure**

**Tested By:** MA **Checked By:** EF

# Particle Size Distribution Report


| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 4.2 | 15.7 | 8.3 | 13.9 | 27.3 | 27.1 | 3.5 |
| | | | | | | | | |
| | | | | | | | | |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 8.8684 | 0.5169 | 0.2413 | 0.0727 | 0.0292 | 0.0155 | 0.66 | 33.35 |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Material Description | USCS | AASHTO |
|---|---|---|
| ○ Silty SAND with Gravel | SM | |

**Project No.** 2101938 **Client:** Green International Affiliates, Inc.

**Project:** Buttonwood Senior Center

○ **Source of Sample:** TP2 **Depth:** 3.5 ft **Sample Number:** S3

**Remarks:**

○As Received WC=7.0%

Fines classified visually

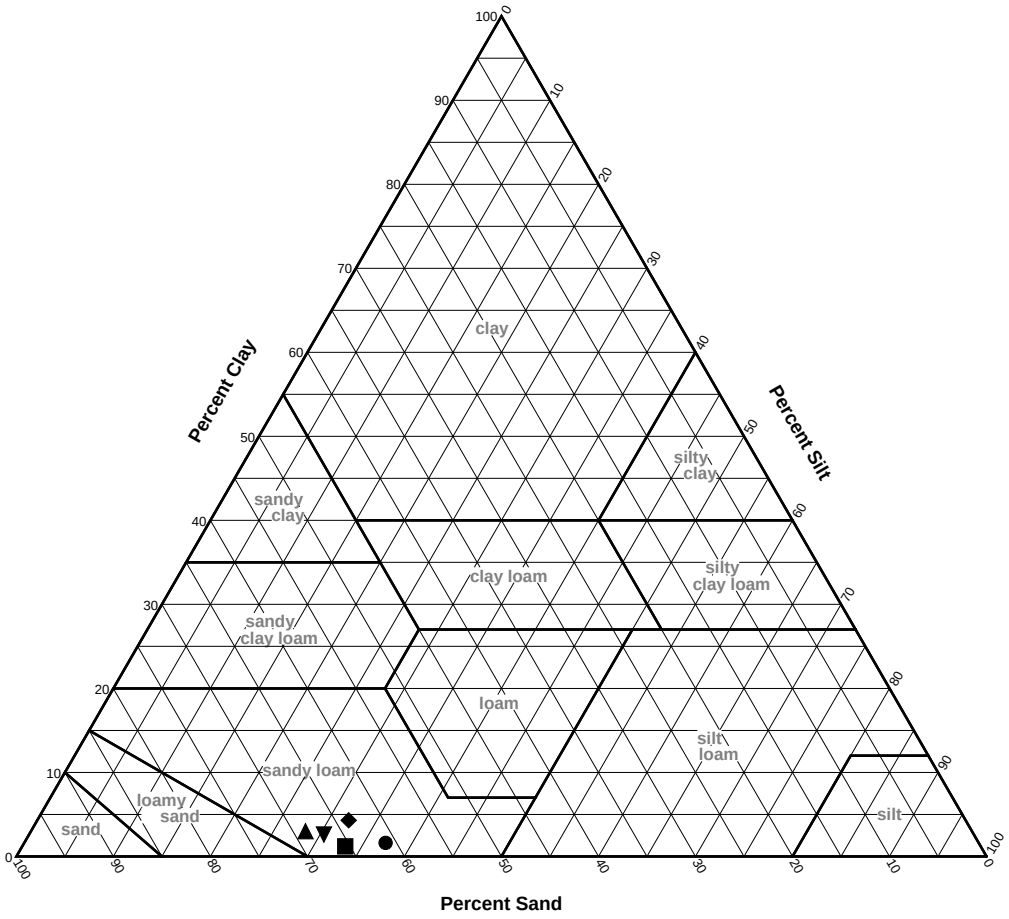

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801


GEI Consultants

**Figure**

**Tested By:** MA **Checked By:** EF

# USDA Soil Classification




| SOIL DATA | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Source | Sample No. | Depth | Percentages From Material Passing a #10 Sieve | | | Classification |
| | | | | Sand | Silt | Clay | |
| ● | TP1 | S1 | 1.5 ft | 61.1 | 37.5 | 1.5 | Sandy loam |
| ■ | TP1 | S2 | 3.0 ft | 65.5 | 33.4 | 1.2 | Sandy loam |
| ▲ | TP2 | S1 | 0.5 ft | 68.7 | 28.4 | 3.0 | Sandy loam |
| ◆ | TP2 | S2 | 1.5 ft | 63.6 | 32.1 | 4.3 | Sandy loam |
| ▼ | TP2 | S3 | 3.5 ft | 67.0 | 30.4 | 2.6 | Sandy loam |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

**Client:** Green International Affiliates, Inc.

**Project:** Buttonwood Senior Center

**Project No.:** 2101938 **Figure**

**Table 1. Exploration Data and Infiltration Rates**
**Proposed Stormwater Improvements**
**Buttonwood Senior Center**
**New Bedford, Massachusetts**

| Test Pit Number | Approx. Ground Surface Elevation[1, 2] | Bottom of Test pit | | Layer Depth | Field Description of Soil | Soil Horizon | USDA Soil Texture[3] | NRCS Hydrologic Soil Group | Infiltration Rate[4] | Est. Depth to Probable High Water[5] |
|---|---|---|---|---|---|---|---|---|---|---|
| | (ft) | Depth (ft) | El. (ft) | (ft) | | | | | (in/hr) | (ft) |
| TP1 | 99.9 | 6.5 | 93.4 | 0.0 - 0.7 | SILTY SAND(SM) ~70% mostly fine to medium sand,~20% slightly plastic fines,~10% fine gravel, organics, Dk. Brown <Top Soil> | (Fill) | NA | NA | -- | >6.5 |
| | | | | 0.7 - 2.2 | SILTY SAND (SM) 47.7% mostly fine to medium sand, 44.9% slightly plastic fines,~7.4% fine gravel, occ. pockets of dk. Brown silty sand. Two cobbles, ~ 10 inches. Lt. Brown <Fill> | (Fill) | Sandy Loam | B | 1.02 | |
| | | | | 2.2 - >6.5 | SILTY SAND WITH GRAVEL (SM) 44.6% mostly fine to medium sand, ~30.8% slightly plastic fines, 24.6% fine to coarse gravel, compact, lt gray. | C | Sandy Loam | B | 1.02 | |
| TP2 | 96.3 | 7.5 | 88.8 | 0.0 - 1.0 | SILTY SAND(SM) 55.5% mostly fine to medium sand, 36.8% slightly plastic fines,~7.7% fine gravel, roots, stumps, debris, Dk. Brown <Top Soil> | A | Sandy Loam | B | 1.02 | 4 |
| | | | | 1.0 - 2.0 | SILTY SAND (SM) 53.5% mostly fine sand, 36.1% slightly plastic fines, 10.4% fine gravel, orange-brown. | B | Sandy Loam | B | 1.02 | |
| | | | | 2.0 - >7.5 | SILTY SAND WITH GRAVEL (SM) 49.5% fine to coarse sand, 30.6% non plastic fines, ~19.9% fine to coarse gravel, compact, lt gray. <Grain Size Test> Some minor mottles observed at 2.5 feet. Frequent mottles observed at four feet. | C | Sandy Loam | B | 1.02 | |

**Notes:**
1. Elevation datum is the North American Vertical Datum (NAVD) of 1988.
2. Ground surface elevations surveyed by the City of New Bedford.
3. USDA soil texture is derived from Fig. 2.3.2, of the Massachusetts Stormwater Handbook (Vol 3, Ch. 1) using the results of grain size tests performed on soil samples obtained from the borings.
4. Infiltration rate is derived from Table 2.3.3, of the Massachusetts Stormwater Handbook (Vol. 3, Ch.1) using the results of grain size tests performed on soil samples obtained from the test pits.
5. Estimated depths to Probable High Water is based on visual observations of test pits and signs of mottling in the soils exposed on the sidewalls of the test pit.

**SECTION 010250**
**MEASUREMENT AND PAYMENT**

PART 1 GENERAL

1.1 Construct Phase 1 Buttonwood Brook Water Quality Improvements (Items 1a thru 1d)

A. Measurement and Payment

1. Measurement and payment for the lump sum bid for Items 1a thru 1d in the Bid Form shall be full compensation for furnishing all labor, materials, equipment and incidentals required, except as required under Item 2, to perform the Work as outlined in Section 01010 in its entirety, as shown on the Drawings and as specified herein.

2. Payment shall fully compensate the Contractor for any incidental work which is not specified or shown but which is evidently required to complete the work.

1.2 Informational Signs

A. Measurement and Payment

1. Payment under Item 2 shall be made for the actual invoiced costs of the sign company to furnish and install the required informational signs and footings.

2. Invoices shall be provided with Contractor's Application for Payment. No payment shall be made prior to submittal of sign company's invoice.

3. All work required by contractor to coordinate with the sign company shall be included under Item 1d in the Bid Form.

4. Contractor will not be allowed overhead and profit associated with the lump sum item shown in Item 2.

1.3 Unit Prices

A. General

1. The Unit Prices set forth in the Bid Form shall be used to determine any equitable adjustment of the Contract Price in connection with the changes or extra work performed under this Contract as directed by the Owner.

B. Measurement

1. Lump Sum bid shall be paid for the percent complete as provided in the approved schedule of values.
2. The Unit Prices shall be used to determine any equitable adjustment of the Contract Price in connection with the changes or extra work performed under this Contract as directed by the Owner.

C. Payment

1. Payment shall be for work completed and accepted by the Engineer. Work shall be performed and completed as defined in the technical specification for each item.

**END OF SECTION**

LIST OF SCHEDULED EVENTS

| Location | Event Date | Start Time | End Time |
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