

THE CITY OF WALTHAM
MASSACHUSETTS

PURCHASING DEPARTMENT

**PROSPECT HILL PARK
RENOVATION**

ADDENDUM NO. 1

Sept. 22, 2020

CHANGES, CORRECTIONS AND CLARIFICATIONS

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ACKNOWLEDGED IN SECTION 00 31 00, PAGE 15

ITEM 1: ANSWERS TO POSED QUESTIONS

Q1. Are there active utilities to the structures to be demolished and will a demolition permit be required?

A1. There may be active utilities to these structures – contractor to verify and coordinate shut-off with utility companies prior to demolition. No City of Waltham demolition permit required.

Q2. Is there a cost estimate for the project?

A2. A cost estimate is not being made available.

Q3. Will park be closed / shut-down for public use during construction?

A3. Yes.

Q3. Is a demolition permit required for the identified structure?

A3. Yes, no fees will be required.

ITEM #2 ADDITIONAL INFORMATION - PROJECT ORDER OF CONDITIONS

City of Waltham Conservation Commission Order of Conditions for the project is attached for reference.

ITEM #3 SOILS INFORMATION

Project soils information is attached for reference. This information is excerpted from the May 2020 Stormwater Management Report prepared by Horsley Witten Group. Test pit locations are indicated on the Existing Conditions Plans.

End of Addendum 1



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 316-0765
 MassDEP File #
 eDEP Transaction #
 Waltham
 City/Town

A. General Information

Please note:
 this form has
 been modified
 with added
 space to
 accommodate
 the Registry
 of Deeds
 Requirements

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



1. From: Waltham
 Conservation Commission

2. This issuance is for
 (check one): a. Order of Conditions b. Amended Order of Conditions

3. To: Applicant:

Nick a. First Name Abruzzi, Director b. Last Name

City of Waltham Recreation Dept. c. Organization

510 Moody Street d. Mailing Address

Waltham e. City/Town MA f. State 02453 g. Zip Code

4. Property Owner (if different from applicant):

a. First Name b. Last Name

City of Waltham c. Organization

610 Main Street d. Mailing Address

Waltham e. City/Town MA f. State 02452 g. Zip Code

5. Project Location:

314 Totten Pond Road a. Street Address Waltham b. City/Town

R040 c. Assessors Map/Plat Number 001/0001 & 0001R d. Parcel/Lot Number

Latitude and Longitude, if known: 42d23m44.94s d. Latitude -71d15m4.62s e. Longitude



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A. General Information (cont.)

6. Property recorded at the Registry of Deeds for (attach additional information if more than one parcel):
Middlesex
- | | | |
|-----------|--|--|
| a. County | b. Certificate Number (if registered land) | |
| N/A | N/A | |
| c. Book | d. Page | |
7. Dates: 5-26-2020 6-25-2020 7-6-2020
a. Date Notice of Intent Filed b. Date Public Hearing Closed c. Date of Issuance
8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):
Prospect Hill Park Improvements
- | | | |
|--|---|--|
| a. Plan Title | Peter Hedlund, RLA and Richard A. Claytor, Jr., P.E. (respectively) | |
| Hedlund Design Group, LLC & Horsley Witten Group, Inc. | | |
| May 2020 | various | |
| d. Final Revision Date | e. Scale | |
- | | |
|--------------------------------------|---------|
| f. Additional Plan or Document Title | g. Date |
|--------------------------------------|---------|

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act:
- Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:
- | | | |
|--|--|---|
| a. <input type="checkbox"/> Public Water Supply | b. <input type="checkbox"/> Land Containing Shellfish | c. <input checked="" type="checkbox"/> Prevention of Pollution |
| d. <input type="checkbox"/> Private Water Supply | e. <input type="checkbox"/> Fisheries | f. <input checked="" type="checkbox"/> Protection of Wildlife Habitat |
| g. <input type="checkbox"/> Groundwater Supply | h. <input checked="" type="checkbox"/> Storm Damage Prevention | i. <input checked="" type="checkbox"/> Flood Control |
2. This Commission hereby finds the project, as proposed, is: (check one of the following boxes)

Approved subject to:

- a. the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.



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B. Findings (cont.)

Denied because:

- b. the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**
- c. the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**
- 3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) _____ a. linear feet

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input checked="" type="checkbox"/> Bank	64-culvert replacement	_____ b. linear feet	64-culvert replacement	_____ d. linear feet
5. <input type="checkbox"/> Bordering Vegetated Wetland	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
6. <input type="checkbox"/> Land Under Waterbodies and Waterways	_____ a. square feet _____ e. c/y dredged	_____ b. square feet _____ f. c/y dredged	_____ c. square feet	_____ d. square feet
7. <input type="checkbox"/> Bordering Land Subject to Flooding	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
Cubic Feet Flood Storage	_____ e. cubic feet	_____ f. cubic feet	_____ g. cubic feet	_____ h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	_____ a. square feet	_____ b. square feet		
Cubic Feet Flood Storage	_____ c. cubic feet	_____ d. cubic feet	_____ e. cubic feet	_____ f. cubic feet
9. <input type="checkbox"/> Riverfront Area	_____ a. total sq. feet	_____ b. total sq. feet		
Sq ft within 100 ft	_____ c. square feet	_____ d. square feet	_____ e. square feet	_____ f. square feet
Sq ft between 100-200 ft	_____ g. square feet	_____ h. square feet	_____ i. square feet	_____ j. square feet



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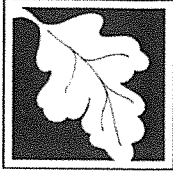
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B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input type="checkbox"/> Land Under the Ocean	a. square feet _____	b. square feet _____		
	c. c/y dredged _____	d. c/y dredged _____		
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	a. square feet _____	b. square feet _____	c. $\frac{\text{cu yd}}{\text{nourishment}}$ _____	d. $\frac{\text{cu yd}}{\text{nourishment}}$ _____
14. <input type="checkbox"/> Coastal Dunes	a. square feet _____	b. square feet _____	c. $\frac{\text{cu yd}}{\text{nourishment}}$ _____	d. $\frac{\text{cu yd}}{\text{nourishment}}$ _____
15. <input type="checkbox"/> Coastal Banks	a. linear feet _____	b. linear feet _____		
16. <input type="checkbox"/> Rocky Intertidal Shores	a. square feet _____	b. square feet _____		
17. <input type="checkbox"/> Salt Marshes	a. square feet _____	b. square feet _____	c. square feet _____	d. square feet _____
18. <input type="checkbox"/> Land Under Salt Ponds	a. square feet _____	b. square feet _____		
	c. c/y dredged _____	d. c/y dredged _____		
19. <input type="checkbox"/> Land Containing Shellfish	a. square feet _____	b. square feet _____	c. square feet _____	d. square feet _____
20. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	a. c/y dredged _____	b. c/y dredged _____		
21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	a. square feet _____	b. square feet _____		
22. <input type="checkbox"/> Riverfront Area	a. total sq. feet _____	b. total sq. feet _____		
Sq ft within 100 ft	c. square feet _____	d. square feet _____	e. square feet _____	f. square feet _____
Sq ft between 100-200 ft	g. square feet _____	h. square feet _____	i. square feet _____	j. square feet _____



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B. Findings (cont.)

* #23. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c (BVW) or B.17.c (Salt Marsh) above, please enter the additional amount here.

23. Restoration/Enhancement *:

a. square feet of BVW

b. square feet of salt marsh

24. Stream Crossing(s):

a. number of new stream crossings

1
b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. The work is a maintenance dredging project as provided for in the Act; or
 - b. The time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
 - c. If the work is for a Test Project, this Order of Conditions shall be valid for no more than one year.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order. An Order of Conditions for a Test Project may be extended for one additional year only upon written application by the applicant, subject to the provisions of 310 CMR 10.05(11)(f).
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on _____ unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.



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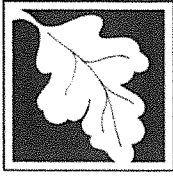
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C. General Conditions Under Massachusetts Wetlands Protection Act

8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]
 "File Number 316-0765 "
11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.



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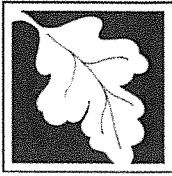
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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.
19. The work associated with this Order (the "Project")
- (1) is subject to the Massachusetts Stormwater Standards
 - (2) is NOT subject to the Massachusetts Stormwater Standards

If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:
 - i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
 - ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
 - iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;



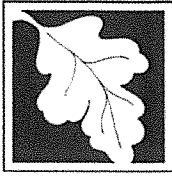
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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
- v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.
- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following:
 - i.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and
 - ii.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



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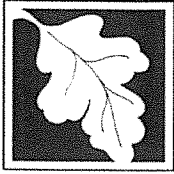
C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

See attached.

20. For Test Projects subject to 310 CMR 10.05(11), the applicant shall also implement the monitoring plan and the restoration plan submitted with the Notice of Intent. If the conservation commission or Department determines that the Test Project threatens the public health, safety or the environment, the applicant shall implement the removal plan submitted with the Notice of Intent or modify the project as directed by the conservation commission or the Department.



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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No
2. The _____ hereby finds (check one that applies):
 Conservation Commission

- a. that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

1. Municipal Ordinance or Bylaw _____ 2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

- b. that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:

1. Municipal Ordinance or Bylaw _____ 2. Citation _____

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):



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E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

7-14-2020
 1. Date of Issuance

Please indicate the number of members who will sign this form.

4
 2. Number of Signers

This Order must be signed by a majority of the Conservation Commission.

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Waltham

Philip Moser
 Signature

Philip Moser
 Printed Name

Michael J. Donovan
 Signature

~~William Doyle~~ Michael Donovan
 Printed Name

Signature

Bradley Baker
 Printed Name

Signature

Gerard Dufromont
 Printed Name

Signature

~~Michael Donovan~~ WILLIAM DOYLE
 Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

by hand delivery on
July 15, 2020
 Date

by certified mail, return receipt requested, on
 Date



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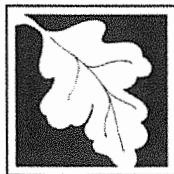
City/Town

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



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City/Town

G. Recording Information

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Waltham

Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

Waltham

Conservation Commission

Please be advised that the Order of Conditions for the Project at:

314 Totten Pond Road
Project Location

316-0765
MassDEP File Number

Has been recorded at the Registry of Deeds of:

County

Book

Page

for:

Property Owner

and has been noted in the chain of title of the affected property in:

Book

Page

In accordance with the Order of Conditions issued on:

Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

Signature of Applicant



**Waltham Conservation Commission
119 School Street
Waltham, MA 02451-4596**

**SPECIAL ORDER OF CONDITIONS (v1.2)
AS ISSUED BY THE WALTHAM CONSERVATION COMMISSION**

DEP File Number: 316-0765
Applicant: City of Waltham Recreation Department
Location: 314 Totten Pond Road
Date of Issuance: July 14, 2020

Violation of any condition stated herein may result in Enforcement Action.

B. Findings

25. SITE-SPECIFIC FINDINGS

A. The Waltham Conservation Commission finds that the work area includes additional bordering vegetated wetlands in the wet lawn area generally located between the existing lodge, the toe of the hill, the abandoned basketball court, and the existing parking lot. This bordering vegetated wetlands area was not included in the applicant's delineation but has been identified by the Waltham Conservation Commission as bordering vegetated wetlands based on its hydric soils. This bordering vegetated wetlands area has been previously altered lawfully, prior to the adoption of the Wetlands Protection Act. The applicant is not prohibited from continuing to maintain this bordering vegetated wetlands area as lawn, but is prohibited from filling, adding drains, or building structures on it. The plans dated June 25, 2020 have been revised to comply with this restriction.

C. Conditions for Waltham

21. RECORDING AND ADMINISTRATION

A. Prior to any work on the site, or within six (6) weeks of the date of this Order, whichever comes first, this Order of Conditions shall be recorded at the Middlesex Registry of Deeds or Land Court, and notice filed with the Commission, pursuant to General Condition 9. Failure to do so shall be deemed cause to revoke this Order.

B. In advance of any work on this project, the applicant shall notify the Commission, and at the request of the Commission, shall arrange an on-site conference among the Commission, the contractor, and the applicant to ensure that all of the conditions of this Order are understood.

C. This Order shall be made a part of all contracts and subcontracts dealing with the work proposed, and shall supersede all other conflicting contract requirements. Except where modified by the following Conditions, all work shall be performed in accordance with the plans and the Notice of Intent. Where a conflict exists between the referenced plans and these Conditions, the Conditions will govern.

D. This Order shall apply to and be binding upon the applicant, its employees, and all successors and assigns in interest or control.

E. Prior to any work being done on the project site, the applicant shall inform the Waltham Conservation Commission in writing of the names, email and mailing addresses, and business and mobile phone numbers of both the project supervisor who will be responsible for ensuring on-site compliance with this order and his/her alternate. The applicant shall also notify the Commission in writing of any changes in this information.

F. Any errors found in the plans or information submitted by the applicant shall be considered as changes, and the procedures outlined in General Condition 14 shall be followed.

G. In conjunction with the sale of any portion of the site covered by this Order of Conditions, the applicant shall submit to the Commission a signed statement by the buyer that he/she is aware of outstanding Orders of Conditions.

H. The Commission may authorize its designated agent to act on its behalf in determining compliance.

I. Special Conditions 25A through 25J shall apply in perpetuity and shall not expire with the issuance of a Certificate of Compliance for this project.

22. PRIOR TO COMMENCEMENT OF WORK

The following conditions, in addition to 21A, 21B, 21C, and 21E, are requirements prior to the commencement of work:

A. Prior to any work on site, the wetland resource area delineation, limit of work delineation, tree protection measures, and erosion controls shall all be in place. The applicant shall notify the Conservation Commission when all of these controls are in place, and, if requested by the Commission, shall arrange an on-site conference among the Commission, the contractor, and the applicant to review same.

B. The wetland resource areas and proposed limit of work shall be clearly marked with stakes, flags or fencing. Such markers will be maintained until all construction on the site's perimeter is complete. All workers shall be informed that no construction activity is to occur beyond this line at any time.

C. The applicant shall preserve and protect all sizeable (DBH of 6 in. or greater) trees, including root systems, that are located in whole or in part within resource areas, 100 ft. buffer zones, or 200 ft. riparian zones, during the demolition and construction phases of this project, except where one or both of the following exceptions are met:

- i. Explicit permission has been granted by the Conversation Commission to remove such trees.

ii. The entire tree including root systems is outside the limit of work and therefore already protected by the limit-of-work stakes, flags, or fencing.

At sizeable trees that are to be preserved and protected, strap boards around the trunk from ground level to a height of at least 8 feet. Install fencing below the perimeter of the crown of the tree, or a distance of at least 18 in. from the trunk for each inch of trunk diameter, whichever is greater, to prevent damage to the roots or compaction of soil around the roots. Such measures shall be maintained until all construction, earthwork, and grading is complete, and then shall be removed and legally disposed of off-site. Trees that are scheduled and approved for removal shall be cut off near ground level; no removal of stumps or roots shall occur without written approval of the Conservation Commission.

D. Erosion controls as shown on the approved plans and described herein shall be installed.

i. Perimeter protection consisting of an erosion control barrier of a filter fabric fence backed by a row of double-staked straw bales (not hay), straw wattles, filter socks, or other approved perimeter protection described in the NOI and shown in the referenced plans, shall be placed between all construction activities and wetland areas or rivers, in accordance with Erosion and Sedimentation Guidelines for Urban and Suburban Areas, Mass. DEP, March 1997 or current version. Silt fencing (if proposed) shall be entrenched 4 in. into the ground and double staked.

ii. Stormwater catch basins located adjacent to the site that may receive stormwater runoff from the site shall be protected. These protections shall be installed in accordance with the plans approved by this Order and/or per the direction of the Waltham Conservation Commission. Silt sacks (not filter fabric) installed and properly maintained generally meet this requirement. Silt sacks, if required for the project, shall be emptied at least once every two weeks and whenever silt and debris have collected to a level that is affecting the functionality of the silt sack and/or catch basins. Silt sacks shall be maintained in good working order and must be repaired or replaced when damaged.

iii. The applicant shall regularly clean the closest catch basins in every direction of the construction site, and regularly clean the city streets between the site and said catch basins, for the duration of construction.

iv. Upon completion of the project, the applicant shall remove and legally dispose of off-site all temporary erosion controls and other materials determined to be detrimental to the resource areas if left in place permanently.

E. The applicant shall have on hand at the start of any soil disturbance, removal or stockpiling, a minimum of 20% additional straw bales, straw wattles, filter socks, silt fencing, or other approved perimeter protection system, in good condition, and sufficient stakes for installation. Said items shall be used only for the control of emergency erosion problems and shall not be used for the normal control of erosion described in Condition "D".

23. DURING WORK

A. Accepted engineering and construction standards and procedures for protection of the resource area shall be followed in the completion of this project.

B. A copy of this Order of Conditions, all construction plans, and wetland replication plans if applicable, shall be maintained on site for the duration of any site work and made available to any person doing work on the site.

- C. Site grading and construction shall be scheduled to avoid periods of high water. Once begun, grading and construction shall move uninterrupted to completion to avoid erosion and sedimentation of wetlands.
- D. Any dewatering or drawdown activities on the project shall not directly discharge into a resource area or as surface flow. All discharges, including those to a storm drainage system, shall make use of a sedimentation tank or similar device to remove sediment before the water is released.
- E. As soon as possible during construction, all disturbed areas in the resource area, 100 ft. buffer zone, or 200 ft. riparian zone shall be brought to final finished grade and stabilized permanently against erosion. This shall be done either by sodding, or by loaming, seeding, and mulching according to Natural Resources Conservation Service (formerly USDA) Soil Conservation Service Guidelines. If the latter course is chosen, stabilization will be considered completed once the surface shows complete vegetative cover. Bare, graded ground that cannot be permanently stabilized within thirty (30) days shall be stabilized by temporary measures. Stockpiled ground shall be stabilized as described in Condition 23.G below.
- F. No earthen embankment in the resource area, 100 ft. buffer zone, or 200 ft. riparian zone shall have a post-construction slope steeper than 2:1 unless engineered slope stabilization is provided.
- G. There shall be no stockpiling of soil, sand, or similar unconsolidated material within the resource area, 100 ft. buffer zone, or 200 ft. riparian zone, unless otherwise authorized by these Conditions or by the Waltham Conservation Commission. Any stockpile of soil, sand, or similar materials that is permitted within said areas must be enclosed within a line of entrenched and staked erosion control socks or silt fence in addition to the perimeter erosion controls for the site. In the event that all earthwork ceases for more than 15 days or if inclement weather is imminent, all exposed stockpiled soils must be stabilized with a temporary vegetative cover, tarp, or other erosion control acceptable to the Waltham Conservation Commission.
- H. There shall be no discharge or spillage of fuel, oil, or other pollutants (including but not limited to: paint stripper, soap, detergent, other cleaning chemicals, industrial solvents, strong acids and bases, etc.) into any resource area, 100 ft. buffer zone, or 200 ft. riparian zone. The applicant shall take all reasonable precautions to prevent the release of pollutants by ignorance, accident, or vandalism. No fueling or maintenance of vehicles shall be allowed within a resource area, 100 ft. buffer zone, or 200 ft. riparian zone, unless otherwise authorized by the Conditions or the Waltham Conservation Commission.
- I. No plants, shrubs, or trees listed on the latest Massachusetts Department of Agricultural Resources Prohibited Plant List (invasive species) may be brought onto or planted anywhere on the property. (Plant List is available at <http://www.mass.gov/eea/agencies/agr/farm-products/plants/massachusetts-prohibited-plant-list.html>).
- J. Planting within the resource area, 100 ft. buffer zone, and 200 ft. riparian zone shall be limited to species that are native to Massachusetts.

24. POST CONSTRUCTION

Upon completion of construction and final soil stabilization, the Applicant shall submit the following to the Waltham Conservation Commission to request a Certificate of Compliance (COC):

- A. A completed Request for Certificate of Compliance – WPA Form 8A;
- B. In the case of commercial and multi-family residential projects, and all projects that involve re-grading inside a flood zone or flood plain: an as-built plan (including grading) and a signed letter from a licensed professional

certifying that the work has been completed in substantial compliance with the approved plans and the Order of Conditions.

25. UPON COMPLETION OF WORK - CONDITIONS IN PERPETUITY

The following Conditions are ongoing and do not expire with the expiration of the Order of Conditions or the issuance of a Certificate of Compliance.

A. No underground storage of fuel oil or other petroleum products shall be allowed within the resource area, 100 ft. buffer zone, or 200 ft. riparian zone. There shall be no storage of petroleum products within the resource area, 100 ft. buffer zone, or 200 ft. riparian zone on the site at any time, except to the extent reasonably necessary for the ordinary uses of the occupants and maintenance staff of the property (e.g., re-fueling landscaping and snow removal equipment for use on the property, and the fuel and oil contained within vehicles). For single family homes, this restriction limits quantities to those commensurate with maintaining a single family home.

B. Fertilizer, pesticides, and herbicides shall not be used within a resource area, 100 ft. buffer zone, or 200 ft. riparian zone, except where herbicides or pesticides are used in a limited application to target invasive species where specifically approved by the Conservation Commission. For the duration of each landscaping season, signs of a minimum of two square feet that are reasonably legible and that state such restriction, shall be posted and maintained at all landscaper access points to all landscaped areas that occur in the above-mentioned areas, on all except single-family residential properties.

C. Salt and other chemical de-icing shall not be used within a resource area or within a resource area, 100 ft. buffer zone, or 200 ft. riparian zone. For the duration of each snow removal season, signs of a minimum of two square feet that are reasonably legible and that state such restriction shall be posted and maintained at all vehicle entrances to the above mentioned area on all except single-family residential properties.

D. Sand used for winter traction in paved areas shall be removed periodically during the winter and by May 1st of each year. Records of cleaning shall be maintained on site.

E. There shall be no discharge or spillage of fuel, oil, or other pollutants (including but not limited to: paint stripper, soap or detergent, other cleaning chemicals, industrial solvents, strong acids and bases, etc.) into any resource area, 100 ft. buffer zone, or 200 ft. riparian zone. The applicant shall take all reasonable precautions to prevent the release of pollutants by ignorance, accident, or vandalism. No fueling or maintenance of vehicles shall be allowed within a resource area, 100 ft. buffer zone, or 200 ft. riparian zone unless otherwise authorized by the Conditions or the Waltham Conservation Commission.

F. The storm drainage system shall be equipped with gas and oil traps. Catch basins shall be inspected by the applicant every 6 months, and cleaned and maintained as needed based on the inspection. Records of said inspection and cleaning shall be maintained on site.

G. Following the completion of construction and grading, all exposed soils within the resource area(s), 100 ft. buffer zone, and 200 ft. riparian zone must be adequately stabilized. Gradients of 3 units horizontal to 1 unit vertical or steeper must be stabilized with a permanent vegetative cover, unless engineered slope stabilization is provided. Bark mulch or wood mulch may in appropriate circumstances be used to provide adequate stabilization on slopes with a gradient less than 3:1.

H. Stormwater infiltration devices must be maintained per manufacturer specifications and the approved

Operations and Maintenance plan, if any.

I. Any fencing within a resource area shall have a continuous gap, interrupted only at main support posts, between the bottom of the fence and the ground. The bottom edge shall be free of sharp edges and sharp protrusions. For single-family residential properties, the gap shall be at least 4 in. For commercial and multi-family residential properties, the gap shall be at least 6 in.

J. Any plantings within a resource area, 100 ft. buffer zones, or 200 ft. riparian zones, or as part of any mitigation plan, shall be maintained and successfully established, and the planting area shall be kept free of invasive plant species. The Commission may require replanting in case of significant failure.

26. SITE-SPECIFIC CONDITIONS

A. Applicant shall provide planting plan to the Commission.

B. Applicant shall update Commission on the findings after cleaning out the drain pipes to the west.

MEMO

ITEM #3 SOILS INFORMATION

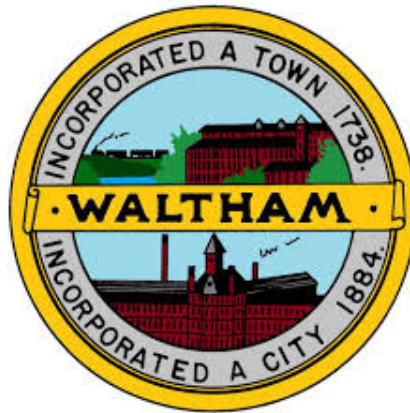
Project soils information is attached for reference.

STORMWATER MANAGEMENT REPORT

PROSPECT HILL PARK
314 Totten Pond Road
Waltham, MA

Prepared for:

City of Waltham Recreation Department
510 Moody Street
Waltham, MA 02453



Prepared by:

Horsley Witten Group, Inc.

May 2020

Horsley Witten Group
Sustainable Environmental Solutions

90 Route 6A • Unit 1 • Sandwich, MA 02563
508-833-6600 • horsleywitten.com



information. The distribution of hydrologic soil groups (HSGs) of those soils within the basecamp and the contributing drainage areas are outlined in **Table 1**.

Table 1. NRCS Soils Data for PHP Drainage Areas

Soil Type	HSG	Acres in Base Camp Drainage Area (% of Total)	Acres in Total Drainage Area (% of Total)
Narragansett-Hollis Outcrop Complex	B	0.97 (13%)	12.31 (6%)
Hollis-Rock outcrop- Charlton	D	0.93 (12%)	46.10 (24%)
Udorthents, wet substratum	N/A (assumed D)	5.84 (75%)	137.16 (70%)
TOTAL		7.73	195.55

Nine test pits were conducted at the site on March 10, 2020 to evaluate subsurface conditions and Estimated Seasonal High Groundwater (ESHGW) based on evidence of mottling or redox. The test pits were excavated and witnessed by the City’s staff and logged by HW certified Massachusetts Soil Evaluators. Results are shown in **Table 2**; test pits were conducted on the northern portion of the site closest to Totten Pond first (e.g., TP-1, TP-2) with the lawn area closest to the hill last (e.g., TP-8, TP-9). The soil underlying the site was found to be a layer of fill of varying depths, followed by layers of sandy loam and loam. Under the USDA NRCS classification system, the native soil corresponds to an HSG B soil with an estimated infiltration range of 0.52 to 1.02 in/hr. See **Appendix B** for test pit soil logs.

ESHGW and groundwater were most shallow in the lawn area (18-24” below ground surface). Large boulders and ledge were pronounced in the northern portion of the site (TP-1, TP-2, TP-6). Nearly all test pits had trash, debris and other refuse products present in the fill. While it is common for urban fill to have debris present in soil materials and none of the sites exhibited clear indicators of hazardous materials (e.g., smell or visual observations), no soil testing has been completed at the site to confirm.

Table 2. Test Pit Results

Test Pit (TP) ID	Elev. at TP (ft)	ESHGW (ft)	Elev. of Groundwater (GW), Ledge (L) or Pit Bottom (PB) (ft)	Soil Texture(s)	Notes
TP-1	131.3	123.3	123.3 (GW)	Fill	Old pipes, trash
TP-2	134.4	N/A	127.4 (L)	Fill	Timbers, old pipe, wires, brick, large boulders and stones
TP-3	134.7	130.9	129.7 (GW)	Fill (to 45”), Sandy Loam	Asphalt, large boulders and stones
TP-4	135.2	127.2	126.7 (GW)	Fill (to 26”), Sandy Loam	
TP-5	136.3	N/A	126.3 (PB)	Fill	Trash/debris on surface and throughout test pit
TP-6	135.7	130.2	130.2 (GW)	Sandy Loam, Loam	Several large (2-3 ft) boulders, roots and old pipe at ~3 ft below surface

TP-7	134.8	133.3	131.6 (GW)	Fill (to 50")	Bricks, ceramics, and trash
TP-8	137.6	135.3	133.4 (GW)	Fill (to 55"), Sandy Loam, Loam	Bricks, ceramic, trash, iron, and a large boulder.
TP-9	136.3	134.22	134.8 (GW)	Fill (to 25"), Sandy Loam, Silty Loam	

1.1.4 Resource Areas

According to the most recent Massachusetts Natural Heritage Atlas (Massachusetts Natural Heritage & Endangered Species Program or NHESP), the Base Camp area does not have habitat areas for rare or endangered species or vernal pools. The area is not located within a FEMA Flood Hazard Zone. See **Figure 4** for further information.

1.2 Proposed Conditions

The proposed project consists of the following site development improvements:

- Redesigned parking lots and access roads to formalize vehicular and pedestrian connections while meeting fire department access requirements;
- New amenities for residents and camp attendees including a spray park, a new playground, and a new playground area, all within upland areas away from existing resource areas;
- Improved buffers to resource areas and native landscaping in place of mowed lawn;
- GSI including bioretention system systems, a sand filter, and a vegetated swale;
- An underdrain system underneath the open lawn area to address standing water;
- Maintenance and/or replacement in-kind of stormwater drainage infrastructure to restore flow capacities to original conditions.

The proposed stormwater management systems for the proposed site were designed in accordance with the MASWMS. There are six proposed stormwater GSI practices located throughout the site intended to capture and treat runoff from proposed impervious areas. Five of the practices are bioretention areas and one is a sand filter. These systems provide pretreatment by means of sediment forebays and will overflow primarily through spillways, with the exception of Bioretention 1A which overflows through an outlet structure.

Additional stormwater management techniques have been added to the lawn area to manage runoff coming to the Base Camp from areas beyond the limit of work. A vegetated swale has been incorporated in the western portion of the open lawn area to re-direct overland flow that currently drains towards the existing field and buildings. An underdrain system is also proposed beneath the open lawn area to address standing water that occurs regularly during spring and summer seasons.

The proposed GSI system is designed to meet the following major objectives:

- Reduce impervious cover within the project area and thereby reducing peak flows and volumes;
- Capture and treat at least the first one inch of runoff; and

APPENDIX B

Test Pit Data

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-1 10-Mar-20 2:30 PM Sunny, 60 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 131.3

Location (Identify on Plan) See Plan

2. Land Use: Grassy edge of paved parking lot none 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area _____
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other _____
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 96" Depth Standing Water in Hole _____

Estimated Depth to High Groundwater: 96 123.3
inches elevation

Deep Observation Hole Number: TP-1

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-96	Fill	-	-	-	-	-	-	-	-	-	-

Additional Notes Fill: old pipes, trash, etc. Groundwater observed at 96" below surface.

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-2 10-Mar-20 2:00 PM Sunny, 60 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 134.4

Location (Identify on Plan) See Plan

2. Land Use: Grassy edge of paved parking lot none 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area _____
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other _____
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit _____ Depth Standing Water in Hole _____

Estimated Depth to High Groundwater: 84 127.4
inches elevation

Deep Observation Hole Number: TP-2

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-84	Fill	-	-	-	-	-	-	-	-	-	
84	Ledge										

Additional Notes Fill: timbers, old pipe, wires, brick. No redox or groundwater observed. 6'+ dia boulder, other large stones

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-3 10-Mar-20 10:15 AM Sunny, 60 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 134.7

Location (Identify on Plan) See Plan

2. Land Use: Lawn none 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area feet
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other feet
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 60" Depth Standing Water in Hole feet

Estimated Depth to High Groundwater: 45 130.95
inches elevation

Deep Observation Hole Number: TP-3

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-45	Fill	-	-	-	-	-	15	30	-	-	
45-61	Bw	10 YR 3/6	45	10 YR 4/4	50	VF SL	5	0	M	Fr	tight layer
60-72+	C	10 YR 3/2	-	-	-	SL	10	15	M	Fr	

Additional Notes Fill: asphalt, sand (on one side). Large rocks, 5' dia boulder. Seeping at 60"

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-4 10-Mar-20 11:45 AM Sunny, 60 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 135.2

Location (Identify on Plan) See Plan

2. Land Use: Bare dirt small gravel 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area feet
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other feet
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 102 Depth Standing Water in Hole feet

Estimated Depth to High Groundwater: 96 127.2
inches elevation

Deep Observation Hole Number: TP-4

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-26	Fill	-	-	-	-	-	-	-	-	-	
26-30	Ab	10 YR 2/1	-	-	-	SL	5	0	Gr	Fr	
30-54	Bw	10 YR 5/8	-	-	-	FSL	15	10	M	Fr	
54-96	C1	10 YR 4/4	96	10 YR 4/6	50	SL	25	10	M	Fr	
96-102+	C1	2.5Y 5/2	-	-	-	SL	50	15	M	Fr	

Additional Notes Seeping at 8.5'

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-5 10-Mar-20 11:00 AM Sunny, 60 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 136.3

Location (Identify on Plan) See Plan

2. Land Use: Woodland none 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

few small saplings See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area _____
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other _____
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit _____ Depth Standing Water in Hole _____

Estimated Depth to High Groundwater: 120 126.3
inches elevation

Deep Observation Hole Number: TP-5

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-120	Fill	-	-	-	-	-	-	-	-	-	

Additional Notes Trash on surface and throughout pit. No groundwater or redox observed.

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-6 10-Mar-20 9:45 AM Sunny, 55 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 135.7

Location (Identify on Plan) See Plan

2. Land Use: Lawn none 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

Grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area feet
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other feet
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 66 Depth Standing Water in Hole feet

Estimated Depth to High Groundwater: 66 130.2
inches elevation

Deep Observation Hole Number: TP-6

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-4	A	10 YR 2/2	-	-	-	SL	-	-	-	-	
4-16	Bw	10 YR 4/2	-	-	-	SL	35	5	-	-	
16-72+	C	10 YR 4/2	-	-	-	Loam	35	35	-	-	

Additional Notes GW observed at 66". Several 2-3' dia boulders. 5' dia+ boulder near bottom of hole. Possible ledge?

Roots to bottom of hole. Old pipe at 33" but did not observe any other fill.

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-7 10-Mar-20 9:00 AM Sunny, 55 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 134.8

Location (Identify on Plan) See Plan

2. Land Use: Lawn none 0 - 5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

Grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area feet
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other feet
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 39 Depth Standing Water in Hole feet

Estimated Depth to High Groundwater: 18 133.3
inches elevation

Deep Observation Hole Number: TP-7

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-50	Fill	-	18	5 YR 4/6	75	-	15	10	-	-	
50-65	Bw	2.5 YR 5/1	65	10 YR 5-8	75	VFSL	0	0	M	Fr	tight layer
65-72+	C	2.5 Y 4/2	-	-	-	SL	30	10	M	Fr	gritty

Additional Notes Seeping at 39" and below. Caving in below seeps.

Fill: Bricks, ceramic, trash.

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-8 10-Mar-20 8:05 AM Sunny, 50 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 137.6

Location (Identify on Plan) See Plan

2. Land Use: Lawn none 5-15%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

Grass Landform See Plan
Vegetation Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area feet
feet feet

Property Line >25 Drinking Water Well >100 ft. Other feet
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 50 Depth Standing Water in Hole _____
inches elevation

Estimated Depth to High Groundwater: 28 135.27
inches elevation

Deep Observation Hole Number: TP-8

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-55	Fill	-	28	5 YR 3/4	50	-	10	10	-	-	
50-62	Bw	2.5 YR 5/1	-	-	-	VFSL	0	0	M	Fr	tight
62-84+	C	10 YR 2/1	-	-	-	Loam	20	10	M	Fr	lots of old large roots

Additional Notes Large boulder. Seep at 50".

Fill: Bricks, ceramic, trash, iron.

C. On-Site Review

Prospect Hill Park

Deep Observation Hole Number: TP-9 10-Mar-20 7:40 AM Cloudy, 50 deg F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole 136.3

Location (Identify on Plan) See Plan

2. Land Use: Lawn none 0-5%
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

Grass See Plan
Vegetation Landform Position on landscape (attach sheet)

3. Distances from: Open Water Body <100 ft Drainage Way <100 ft Possible Wet Area feet
feet feet feet

Property Line >25 Drinking Water Well >100 ft. Other feet
feet feet

4 Parent Material: Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5 Groundwater Observed: Yes No

If Yes: Depth Weeping from Pit 18 Depth Standing Water in Hole feet

Estimated Depth to High Groundwater: 25 134.80
inches elevation

Deep Observation Hole Number: TP-9

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-25	Fill	-	-	-	-	-	-	-	-	-	
25-30	Bw	2.5 YR 5/1	25	10 YR 5/8	75	FSL	0	0	M	Fr	tight
30-50+	C	10 YR 4/1	-	-	-	SiL	30	15	M	Fr	

Additional Notes Immediate collapse. Seeping from 18" down.
