

Anthony A. Esposito
55-7 South Meadow Village
Carver, MA 02330

Tel # 508-369-4783

email; ltespo12@yahoo.com

Civil Engineering + Soil Evaluating + Septic Inspection
Registered in Massachusetts, Rhode Island and Florida.

October 5, 2016

Revere Conservation Commission
Revere City Hall
Mezzanine Level
City of Revere
281 Broadway
Revere, MA 02151

Gentlemen:

On behalf of the applicant, The Cavallo Corporation, we hereby request a public hearing before the Revere Conservation Commission for review and approval for an Order of Conditions under Massachusetts General Laws Chapter 131 Section 40, The Wetland Protection Act and Title 16 Environment Chapter 16.04 Wetlands Protection of the Revised City of Revere Ordinances. The approval of the Conditions is required to apply for a Building Permit for a new single family dwelling to be located on Belcher Street, Revere, MA.

The parcels proposed for the construction are shown in the local Assessors Maps as Assessors Map 2 Block 72 Parcels 3 and 4. These parcels together encompass 3,824 sf of vacant land area. The parcels provide 68 lf of frontage on Belcher Street. Currently the parcels are vegetated with domestic grass that appears to have been maintained by periodic mowing within 100 ft of a Coastal bank. There are no trees on the site. Utilities will be required to be extended from Broadsound Avenue to service the new dwelling.

We have attached of the following documents to accompany our Application for Order of Conditions...

- 8 copies of the Application for a Notice of Intent, WPA Form 3.
- 8 copies of the Application for a NOI Wetland Fee Transmittal Form.
- 8 copies of the Approval letter from the Board of Appeals addressing the required variances required to construct the dwelling shown on the attached Site Plan.
- 8 copies of the recorded deed to the property.
- 8 copies of USGS Topographical map showing the location of the site
- 8 copies of the Flood Insurance Rate Map, (i.e. FIRM) for Suffolk County Massachusetts, #25025C0038G dated September 25, 2009.
- 8 copies of the Certified Abutters List certified on September 24, 2016.
- A check and 8 copies of the check addressed to the City of Revere in the amount of \$262.50 in accordance with the NOI Wetland Fee Transmittal Form.
- 8 copies of the check addressed to the Commonwealth of Massachusetts in the amount of \$237.50 in accordance with the NOI Wetland Fee Transmittal Form.
- 8 copies of the check addressed to the Revere Journal in the amount of \$60.00 for legal advertising expenses relative to Conservation Commission public hearing.

- 8 copies of the Geotechnical Engineering Report, Belcher Street Residence, Revere, MA for Ron Cavallo from Geosciences Testing and Research, Inc. dated February 9, 2016.

The portion of the City of Revere Parcel Street Index map shows that the site is primarily located within surrounding residential dwellings across Belcher Street and to its west and south boundary. Its size and shape is typical in this area of Revere on the east side of Broadsound Avenue. The area is zoned as residential RB with the exception of the west side of Broadsound Avenue which has an area enclosed by a Zoning District of General Business, (GB) according to the map. However, single family dwellings are the predominant land use in this area at this time. The City of Revere owns the abutting parcel to the east which is occupied by an asphalt walk and seawall protecting the area from waves of the Atlantic Ocean.

The proposed site plans provided with the application details the boundary dimensions of the property and the proposed setbacks from the foundation, balconies and decks to the property lines. The dwelling is proposed to be 2 stories with a drive-under garage. The balconies are on the east side of the dwelling facing the Atlantic Ocean. There is a deck proposed on the south side and in the entry way off Belcher Street.

There is no parking proposed on the side of the dwelling. Utilities, which include water, sewer, electric, cable and communications are proposed to be installed underground originating from Broadsound Avenue. Gas service is already available on Belcher Street to serve the dwelling at 166 Broadsound Avenue. The site locus is currently grassed with no existing structure. A drywell is proposed for drainage of the drive-under garage. The applicant is proposed to use barrels to save water from the downspouts for irrigation.

The topography of the site grades gradually to the west and is slightly above the FEMA flood plain elevation of 6 feet NAVD 88, (Zone AH) based on the attached FIRM map. The site is within 100 lf of a coastal beach and is subject to a Notice of Intent filing with the Conservation Commission of the City of Revere.

The soils on site are currently referred to as Udorthents sandy soil by the USGS. These soils description is characteristic of soils that were disturbed long ago. We have attached a Geotechnical Engineering Report to the application for your review.

The report recommends that the foundation of the proposed dwelling be supported by piles because of the presence of a 15 ft. deep layer of sandy fill over a thick organic silt layer. The piles will extend approximately 38 lf below existing grade to support the dwelling.

The applicant is requesting approval for an Order of Conditions to proceed to construction permits.

If you have any questions, please contact me at 508-369-4783

Sincerely Yours,

Anthony Esposito
Tony Esposito, P.E.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number
REVERE

City/Town

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



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

A. General Information

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

BELCHER ST.	REVERE	02151
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	042d 23' 58.2"N	070d 58' 50.6"W
2	d. Latitude	e. Longitude
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

RONALD	CAVALLO	
a. First Name	b. Last Name	
CAVALLO CORPORATION		
c. Organization		
70 VICTORIA ST.		
d. Street Address		
SOMERVILLE	MA	02144
e. City/Town	f. State	g. Zip Code
617-797-7567	ronycav@gmail.com	
h. Phone Number	i. Fax Number	j. Email Address

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

GERALDINE & RICHARD P	WINTERS & DESMOND	
a. First Name	b. Last Name	
c. Organization		
9 BIRCHWOOD AVE		
d. Street Address		
SAUGUS	MA	01906
e. City/Town	f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

ANTHONY A.	ESPOSITO	
a. First Name	b. Last Name	
sole proprietor		
c. Company		
55-7 SOUTHMEADOW VILLAGE		
d. Street Address		
CARVER	MA	02330
e. City/Town	f. State	g. Zip Code
508-369-4783	ltespo12@yahoo.com	
h. Phone Number	i. Fax Number	j. Email address

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

\$500	\$237.50	\$262.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid

A. General Information (continued)

6. General Project Description:

Single family home on piles with new utility connections for water, sewer, gas, cable, telephone and electric.

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

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

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

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

SUFFOLK

a. County
50202

b. Certificate # (if registered land)
183

c. Book

d. Page Number

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

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

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

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

For all projects affecting other Resource Areas, please attach a narrative

Resource Area

Size of Proposed Alteration

Proposed Replacement (if any)

a. Bank

1. linear feet

2. linear feet

with all supplementary information you submit to the Department.

<p>c. <input type="checkbox"/> Barrier Beach</p> <p>d. <input type="checkbox"/> Coastal Beaches</p> <p>e. <input type="checkbox"/> Coastal Dunes</p> <p>f. <input checked="" type="checkbox"/> Coastal Banks</p> <p>g. <input type="checkbox"/> Rocky Intertidal Shores</p> <p>h. <input type="checkbox"/> Salt Marshes</p> <p>i. <input type="checkbox"/> Land Under Salt Ponds</p> <p>j. <input type="checkbox"/> Land Containing Shellfish</p> <p>k. <input type="checkbox"/> Fish Runs</p> <p>l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage</p>	<p>2. cubic yards dredged</p> <p>Indicate size under Coastal Beaches and/or Coastal Dunes below</p> <hr/> <p>1. square feet</p> <hr/> <p>2. cubic yards beach nourishment</p> <hr/> <p>1. square feet</p> <hr/> <p>2. cubic yards dune nourishment</p>				
	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Size of Proposed Alteration</u></td> <td style="text-align: center;"><u>Proposed Replacement (if any)</u></td> </tr> <tr> <td style="text-align: center;">0</td> <td></td> </tr> </table>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>	0	
<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>				
0					
	<p>1. linear feet</p> <hr/> <p>1. square feet</p> <hr/> <p>1. square feet</p> <hr/> <p>2. sq ft restoration, rehab., creation</p> <hr/> <p>1. square feet</p> <hr/> <p>2. cubic yards dredged</p> <hr/> <p>1. square feet</p> <hr/> <p>Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above</p> <hr/> <p>1. cubic yards dredged</p> <hr/> <p>1. square feet</p>				
<p>4. <input type="checkbox"/> Restoration/Enhancement</p>	<p>If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.</p> <hr/> <p>a. square feet of BVW</p> <hr/> <p>b. square feet of Salt Marsh</p>				
<p>5. <input type="checkbox"/> Project Involves Stream Crossings</p>	<hr/> <p>a. number of new stream crossings</p> <hr/> <p>b. number of replacement stream crossings</p>				

C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

a. Yes No

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

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife

b. Date of map

Phone: (508) 389-6360

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

c. Submit Supplemental Information for Endangered Species Review¹*

1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____
percentage/acreage
 - (b) outside Resource Area _____
percentage/acreage
2. Assessor's Map or right-of-way plan of site
2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work²**
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

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

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

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

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

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

a. NHESP Tracking # _____

b. Date submitted to NHESP _____

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

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

3. Separate MESA review completed.
 Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a. Not applicable – project is in inland resource area only b. Yes No

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

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

North Shore - Hull to New Hampshire border:

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

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

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

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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house

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

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

D. Additional Information

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

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

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

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

D. Additional Information (cont'd)

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

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

SITE PLAN FOR 7 BELCHER ST.

a. Plan Title	ANTHONY A. ESPOSITO	ANTHONY A. ESPOSITO
b. Prepared By	JUNE 3, 2016	c. Signed and Stamped by 1"=10'
d. Final Revision Date	NOTES & DETAILS	e. Scale
f. Additional Plan or Document Title		g. Date
		JUNE 3, 2016

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. Attach NOI Wetland Fee Transmittal Form
9. Attach Stormwater Report, if needed.

E. Fees

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

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

# 709	9/28/16
2. Municipal Check Number # 708	3. Check date 9/28/16
4. State Check Number RONALD	5. Check date CAVALLO
6. Payor name on check: First Name	7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

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

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

Ronald J. Cavallo _____ *Sept. 28, 2016*
1. Signature of Applicant 2. Date

See Below

Ronald J. Cavallo for Geraldine Waters and Demard _____ *Sept. 28, 2016*
3. Signature of Property Owner (if different) 4. Date
5. Signature of Representative (if any) *(Deceased) and* 6. Date
Richard Desimendi, Trustee

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Location of Project:

BELCHER ST.

a. Street Address

REVERE

b. City/Town

c. Check number

d. Fee amount

2. Applicant Mailing Address:

RONALD

a. First Name

CAVALLO

b. Last Name

CAVALLO CORPORATION

c. Organization

70 VICTORIA ST.

d. Mailing Address

SOMERVILLE

e. City/Town

MA

f. State

02144

g. Zip Code

617-797-7567

h. Phone Number

i. Fax Number

ronycav@gmail.com

j. Email Address

3. Property Owner (if different):

GERALDINE & RICHARD P

a. First Name

WINTERS & DESMOND

b. Last Name

c. Organization

9 BIRCHWOOD AVE

d. Mailing Address

SAUGUS

e. City/Town

MA

f. State

01906

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

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

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

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

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

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

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

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

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2 a Single Family Home	1	\$500	\$500

Step 5/Total Project Fee: \$500

Step 6/Fee Payments:

Total Project Fee:	\$500
State share of filing Fee:	a. Total Fee from Step 5 \$237.50
City/Town share of filing Fee:	b. 1/2 Total Fee less \$12.50 \$262.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

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

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

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

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

THE CAVALLO CORP
70 VICTORIA ST
SOMERVILLE, MA 02144-1752

710

53-447/113
410

9/28/16

Date

CHECK ARMOR

Pay to the Order of INDEPENDENT NEWSPAPER GROUP \$ 60.00
SIXTY 00/100 Dollars



ROCKLAND TRUST

For Advertising/Belcher 

⑆011304478⑆ 2410000570⑈ 0710

THE CAVALLO CORP
70 VICTORIA ST
SOMERVILLE, MA 02144-1752

708

53-447/113
410

9/28/16

Date

CHECK ARMOR

Pay to the Order of COMMONWEALTH OF MASSACHUSETTS \$ 237.50
TWO HUNDRED THIRTY SEVEN 50/100 Dollars



ROCKLAND TRUST

For WPA FEE - BELCHER ST 

⑆011304478⑆ 2410000570⑈ 0708

THE CAVALLO CORP
70 VICTORIA ST
SOMERVILLE, MA 02144-1752

709

53-447/113
410

9/28/16

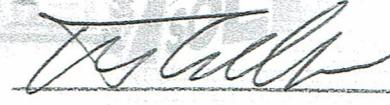
Date

CHECK ARMOR

Pay to the Order of CITY OF REVERE \$ 262.50
TWO HUNDRED SIXTY TWO 50/100 Dollars



ROCKLAND TRUST

For WPA FEE - BELCHER ST 

⑆011304478⑆ 2410000570⑈ 0709

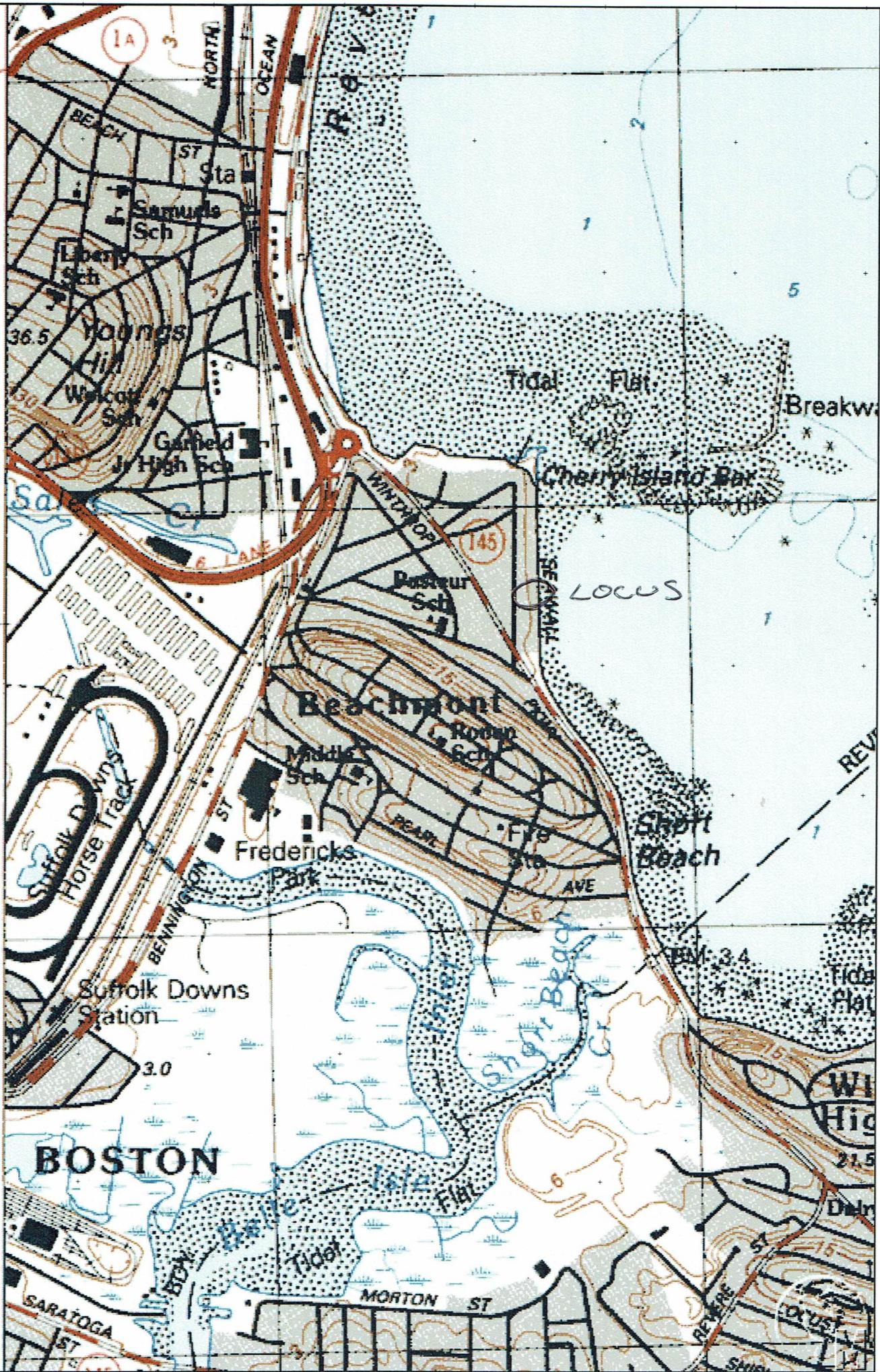
EVERETT (VIA MASS. 16) 5.8 KM

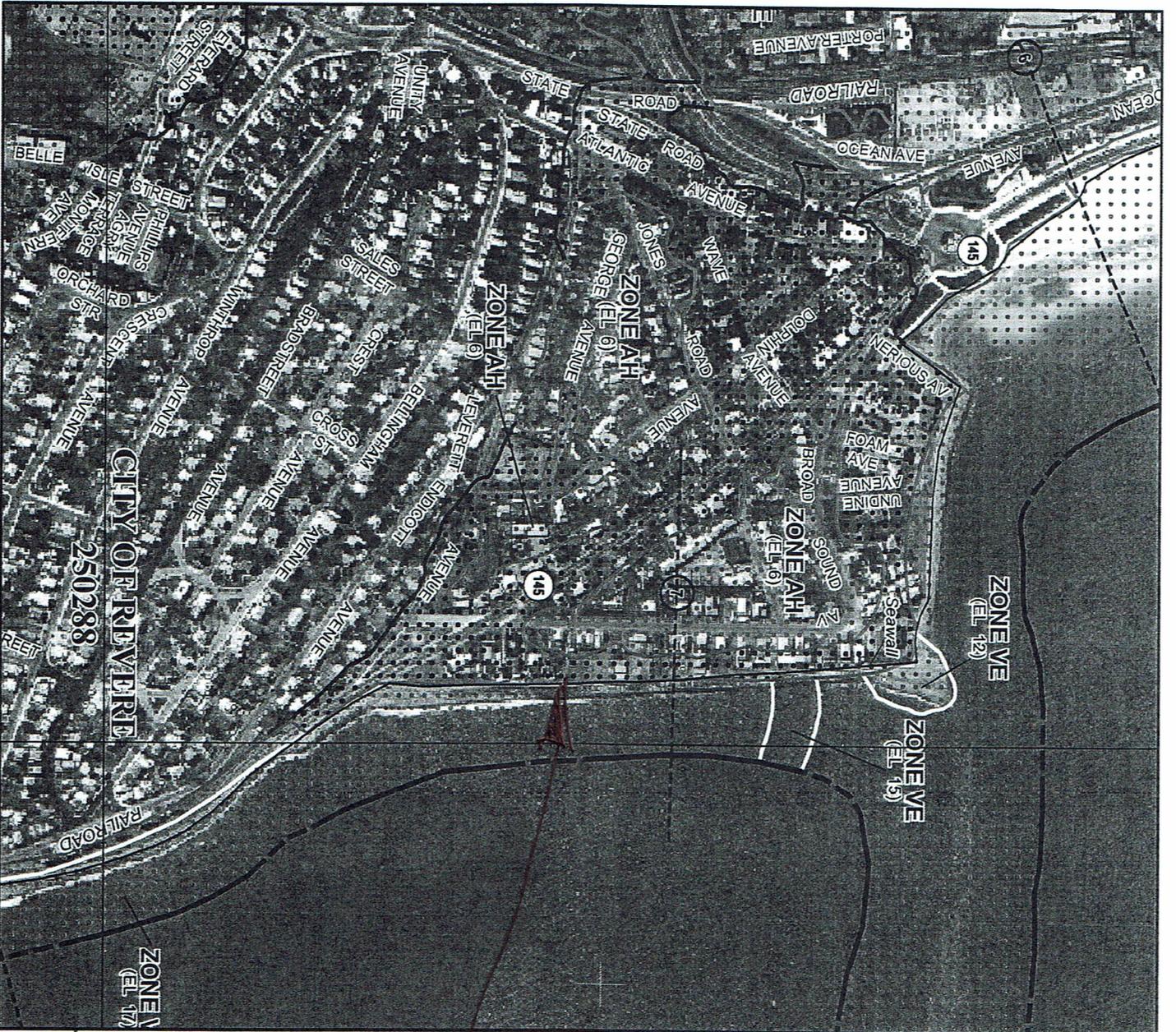
510 000 FEET

4696

4695

4694





MAP SCALE 1" = 500'



IN-FIRM

PANEL 0038G

FIRM
FLOOD INSURANCE RATE MAP
SUFFOLK COUNTY,
MASSACHUSETTS
(ALL JURISDICTIONS)

PANEL 38 OF 151
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
 COMMUNITY NUMBER PANEL SUFFIX
 BOSTON CITY OF 250286 0038 G
 REVERE CITY OF 250288 0038 G
 WINTHROP TOWN OF 250289 0038 G

Lois



MAP NUMBER
25025C0038G
EFFECTIVE DATE
SEPTEMBER 25, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



Brian M. Arrigo
Mayor

The City of REVERE, MASSACHUSETTS

BOARD OF ASSESSORS
Andrew A. Iovanna
John J. Verrengia
Dana E. Brangiforte

paid check # 688

Request for Abutters List

Date: 9/16/16

Property Location: 7 BELCHER STREET

Map: 2 Block: 72 Parcel: 3 + 4

Property Owner: GERALDINE WINAERS

Is request for special permit or variance? YES NO

If yes than 300Ft is required distance. If no, than please indicate requested distance below.

Requested Distance:

100 FT

Fee: \$80.00

Please make checks payable to City of Revere

Requester Information:

Name: THE CAVALLO CORP

Address: 70 VICTORIA STREET
SOMERVILLE, MA

Telephone: (617) 797 7567
★ (508) 369-4783 (TONY)

Loc: 166 BROAD SOUND AVE Parcel ID #: 2-71-8
LUC: 101

BROADSOUND II NOMINEE TRUST
RYAN WILLIAM
18 VERNON ST

MAYNARD MA 01754

Loc: OCEAN VIEW AVE Parcel ID #: 2-72-10
LUC: 132

KENNEALLY THOMAS G

140 CREST AVE

REVERE MA 02151

Loc: OCEAN VIEW AVE Parcel ID #: 2-72-11
LUC: 132

KENNEALLY THOMAS G

140 CREST AVE

REVERE MA 02151

Loc: OCEAN VIEW AVE Parcel ID #: 2-72-12A
LUC: 132

KENNEALLY THOMAS G

140 CREST AVE

REVERE MA 02151

Loc: OCEAN VIEW AVE Parcel ID #: 2-72-12B
LUC: 930

CITY OF REVERE
C/O MAYOR'S OFFICE
281 BROADWAY

REVERE MA 02151

Loc: BELCHER ST Parcel ID #: 2-72-2
LUC: 930

CITY OF REVERE

CITY HALL

Loc: BELCHER ST Parcel ID #: 2-72-3
LUC: 132

WINTERS GERALDINE
DESMOND RICHARD P
9 BIRCHWOOD AVE

SAUGUS MA 01906

Loc: BELCHER ST Parcel ID #: 2-72-4
LUC: 132

WINTERS GERALDINE
DESMOND RICHARD P
9 BIRCHWOOD AVE

SAUGUS MA 01906

Loc: BELCHER ST Parcel ID #: 2-72-5
LUC: 132

MCKAY HEATH
TAPPIN RYAN
168-172 BROAD SOUND AVE

REVERE MA 02151

**THIS IS A TRUE & ATTESTED
COPY OF THE RECORDS OF THE
ASSESSOR'S OFFICE OF THE
CITY OF REVERE**
DATE: 9/29/16

**Notification to Abutters
Under the Massachusetts Wetland Protection Act**

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

- A. The name of the applicant is Cavallo Corporation
- B. The applicant has filed a Notice of Intent with the Revere Conservation Commission seeking permission to construct a Single Family Home, in an area subject to protection under the Wetlands Protection Act (General Laws Chapter 131, Section 40).
- C. The address of the lot where the activity is proposed is 0 Belcher St., Revere, MA
- D. Copies of the Notice of Intent may be examined at The Revere Conservation Commission Office, between the hours of 8:15 AM and 5 PM on the following days of the week: Monday through Thursday. For more information, call: (781) - 286 - 8181

Check One: This is the applicant, rep[resentative], or oth[er] (specify): Conservation Commission

- E. Copies of the Notice of Intent may be obtained from either (check one) the applicant or the applicant's representative , by calling this telephone number (781) - 286 - 8181 between the hours of 8:15 AM and 5 PM on the following days of the week: Monday through Thursday
- F. Information regarding the date, time and place of the public hearing may be obtained from Revere Conservation Commission by calling this telephone number (781) - 286 - 8181 between the hours of 8:15 AM and 5 PM on the following days of the week: Monday through Thursday.

Check one: This is the applicant , representative , or other (specify): Revere Conservation Commission

Note: Notice of the public hearing, including its date, time, and place will be published at least seven (7) days in advance in the Revere Journal

Note: You may also contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

Northeast Regional Office: 978-694-3200



Bk: 50202 Pg: 183 Doc: DED
Page: 1 of 2 09/20/2012 03:26 PM

DEED

LOCUS and GRANTOR'S ADDRESS:
168 BROADSOUND AVENUE, REVERE

I, ROBERT F. DESMOND, Trustee of the DESMOND FAMILY TRUST, u/d/t dated June 30, 1994 and recorded with Suffolk Registry of Deeds at Book 19170, Page 272 for consideration paid and in full consideration of ONE DOLLAR (\$1.00) grant to GERALDINE WINTERS of 168 Broadsound Avenue, Revere, Massachusetts, RICHARD P. DESMOND of 28 Circle Hill Road, Salem, Massachusetts and ROBERT F. DESMOND of 9 Birchwood Avenue, Saugus, Massachusetts, as tenants in common, with QUITCLAIM COVENANTS

A certain parcel of land with the buildings thereon, situated in that part of Revere, called Beachmont, Suffolk County, Commonwealth of Massachusetts, being part of Lots 132 and 133 on plan of Revere Beach Land Company's Lands, recorded with Suffolk Deeds at the end of Book 1675, and bounded and described as follows:

- NORTHERLY by Belcher Street (formerly Crystal Avenue) sixty (60) feet;
- EASTERLY by Lot 131 on said plan, thirty (30) feet;
- SOUTHERLY by the remaining part of said Lots 132 and 133 sixty (60) feet; and
- WESTERLY by Broadsound Avenue, (formerly Ocean Avenue), thirty (30) feet.

Witnessed here
Francis M. Roache
Francis M. Roache
Register of Deeds

Containing 1,800 square feet of land.

Said parcel (the building thereon being marked "The Violet") is also shown upon plan made by N.J. Holland, C.E., dated June 4, 1921, duly recorded with Suffolk Deeds.

Also, two certain parcels of land situated in that part of Revere in said Suffolk County an called Beachmont, shown as Lot 131 and the greater portion of Lot 130 on plan of Ocean Pier Division of Revere Beach Land Co.'s property recorded with Suffolk Deeds at the end of Book 1675 and bounded and described as follows:

- NORTHERLY by Belcher Street, sixty (60) feet;
- EASTERLY by Lot 129, thirty-five (35) feet; thence turning at right angles and running
- WESTERLY six (6) feet; thence turning at right angles and running
- SOUTHERLY twenty five (25) feet;

RETURN TO:
Richard B. Villiotte, Esq.
385 Broadway, Suite 307
Revere, MA 02151

SOUTHERLY by part of Lots 137 an 136, fifty four (54) feet;

WESTERLY by Lot 132, sixty (60) feet to the point of beginning

Containing 3,450 square feet of land more or less.

Said two lots are shown on a plan made by Neil J. Holland, C.E., dated June 4, 1921, recorded in Suffolk Deeds Book 4330, Page 401.

Also another parcel of land in said Revere, described as follows:

About 2,174 square feet of land being parts of lots 128 and 130 and whole of 129 on the southerly side of Belcher Street on N.J. Holland plan dated June 4, 1921, and recorded with Suffolk Deeds, Book 4330, Page 401.

Said parcel of land is subject to an easement for a Metropolitan District Commission sea wall running through the easterly side of said land.

No excise stamps are required to be affixed to this deed.

For title see Book 19170, Page 277, Book 49804, Page 275, and Book 49804, Page 276.

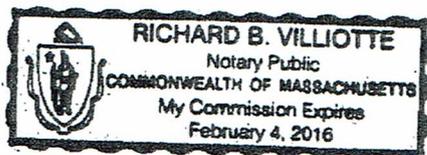
Witness my hand and seal this 13th day of September, 2012.

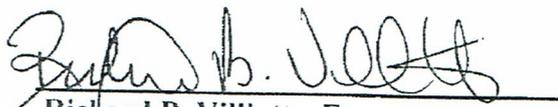

Robert F. Desmond, Trustee

COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss

On this 13th day of September, 2012, before the undersigned Notary Public, personally appeared Robert F. Desmond, who proved to me through satisfactory evidence of identification, which was his state government issued driver's license with his photographic image and signature thereon, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.




Richard B. Villiotte, Esq.
Notary Public
My commission expires: February 4, 2016

DECISION OF THE CITY OF REVERE BOARD OF APPEALS

May 25, 2016

Decision of the City of Revere Zoning Board of Appeals (ZBA) on the application of Cavallo Corporation, 70 Victoria Street, Somerville, Massachusetts requesting a variance of Title 17, Chapter 17.24, Section 17.24.010 (footnote a. and y.) of the Revised Ordinances of the City of Revere, minimum front, side and rear yard setbacks and maximum height of structure to enable the appellant to construct a single family dwelling on Lots 129, 130 and part of Lot 128 at 7 Belcher Street, Revere, Massachusetts.

A copy of the Applicant's plan and application (A-16-05) have been filed with the ZBA and the City Clerk of the City of Revere and are incorporated and made a part of this decision.

A public hearing was conducted by the ZBA on this application on May 25, 2016. A record of the proceedings of the public hearing has been filed with the City Clerk's Office of the City of Revere and are incorporated and made a part of this decision.

Following the public hearing, the ZBA made the following findings:

A hardship does exist with respect to the size of this lot. The ZBA concludes that the appellant cannot reasonably make full use of this lot without a variance being granted.

A literal enforcement of the Zoning Ordinances of the City of Revere would prevent the appellant from developing the lot to its full use.

The ZBA finds that by granting the variance, the general character of this area will not be changed and the public good will be served.

This variance is granted subject to the following restrictions:

1. If the rights authorized by this variance are not exercised within one year of the date of the grant of this variance the rights shall lapse.
2. The appellant shall be required to provide two off-street parking spaces.
3. This variance is granted for the construction of a single family dwelling on Lots 129, 130 and part of Lot 128 at 7 Belcher Street, Revere, Massachusetts in accordance with the appellants plan which is made a part of the record.
4. The proposed single family dwelling shall remain a single family dwelling and shall not further be altered without the prior approval of the ZBA.
5. This variance shall not be valid until the appellant has recorded this variance and plan in the Suffolk County Registry of Deeds and files the Registry of Deed documents, recording numbers and dates with the City Clerk and Building Inspector of the City of Revere.

Based upon its findings and following discussion, the ZBA took up the appellant's request for a variance pursuant to the Zoning Ordinances of the City of Revere (A-16-05) subject to the ZBA's findings and restrictions.

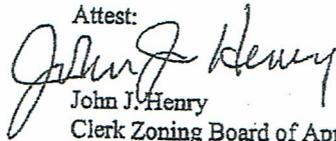
Roll Call: Voting to grant the variance requested: Mr. Buccilli, Mr. Corin
Mr. D'Angelo, Mr. Colometo and Mr. Tucker

Voting against granting the variance requested: None

Absent: Mr. Mazzone

Variance Granted

Attest:



John J. Henry
Clerk Zoning Board of Appeals
Decision Filed: June 2, 2016

AFFIDAVIT OF ROBERT F. DESMOND

I, ROBERT F. DESMOND, hereby state under the pains and penalties of perjury the following:

1. I, along with my brother, RICHARD P. DESMOND and sister, GERALDINE WINTERS, am an owner of Lots 129, 130 and part of Lot 128 located on Belcher Street in Revere, MA as shown on N.J. Holland plan dated June 4, 1921 recorded with the Suffolk Registry of Deeds at Book 4330, Page 401.
2. This property was purchased from the City of Revere by my father in September of 1958. The property is shown on City of Revere Assessors' Map 002 Block 72 Parcels 3 and 4.
3. I certify that this lot was created prior to 2004 and consists of one buildable lot.

Signed under the pains and penalties of perjury this 16th day of October, 2015.

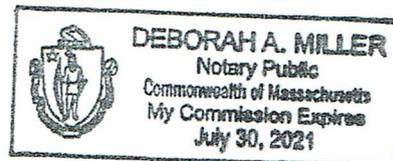

ROBERT F. DESMOND

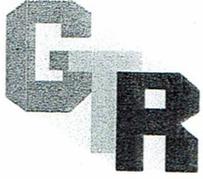
COMMONWEALTH OF MASSACHUSETTS

Essex, County

On this 16th day of October, 2015, before me, the undersigned notary public, personally appeared Robert F. Desmond, proven to me through satisfactory evidence of identification, which was a MA driver's license to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

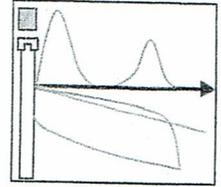

Notary Public
My Commission Expires:





GEOSCIENCES TESTING AND RESEARCH, INC.

55 Middlesex Street, Suite 225, N. Chelmsford, MA 01863
Ph: (978)251-9395, Fx: (978)251-9396



February 9, 2016

GTR Project #16.102

Ronald Cavallo
Boston, MA

Re: Geotechnical Engineering Report
Residence on Belcher Street
Revere, MA

Dear Ronald:

Geosciences Testing and Research, Inc. (GTR) is pleased to present this report summarizing the results of our geotechnical engineering study for the above-referenced project. This study was carried out in general accordance with our proposal dated December 10, 2015. This report is subject to the limitations presented in Appendix A.

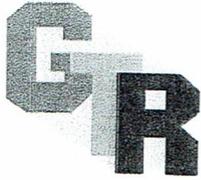
We trust this satisfies your current requirements and have appreciated working with you on this project. Please contact the undersigned if you have any questions.

Sincerely,
Geosciences Testing and Research, Inc.

Jonathan L. Ernst
Project Engineer

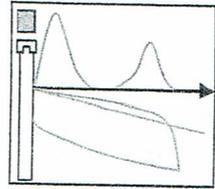
Les R. Chernauskas, P.E.
Principal Engineer

Attachments: Figures 1 and 2 and Appendix A and B
16.102 - Revere Geotechnical Report



GEOSCIENCES TESTING AND RESEARCH, INC.

*55 Middlesex Street, Suite 225, N. Chelmsford, MA 01863
Ph: (978)251-9395, Fx: (978)251-9396*



GEOTECHNICAL ENGINEERING REPORT BELCHER STREET RESIDENCE REVERE, MA

February 9, 2016
Project 16.102

Prepared by:

Geosciences Testing and Research, Inc.
North Chelmsford, MA

Prepared for:

Ron Cavallo
Boston, MA

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Figure 1. Locus Plan

Figure 2. Exploration Location Plan

Table 1. Recommended Soil Design Parameters

Appendix A. Geotechnical Limitations

Appendix B. Test Boring Logs

1. SUMMARY

This report summarizes Geosciences Testing and Research, Inc. (GTR's) geotechnical study to evaluate the subsurface conditions at the site and develop recommendations for the proposed foundation for the proposed residential building in Revere, Massachusetts. GTR carried out this study in general accordance with our proposal dated December 10, 2015. Our design was performed based on Massachusetts State Building Code (MSBC) 8th Edition, Helical Piles (Perko 2009), Chance Civil Construction Technical Design Manual 2007, and Ideal Manufacturing Design Manual. This report is subject to the limitations in Appendix A.

2. INTRODUCTION

2.1 Scope of Study

The scope of our work is to evaluate the geotechnical conditions and provide recommendations for the design of the new foundations for the proposed residential structure. The subsurface investigation and soil profile are described in detail (section 3.2). Based on the subsurface investigation findings, the soil design parameters, seismic design parameters, foundation recommendations, and construction recommendations are provided for the proposed construction.

The scope of this study included the following tasks:

1. Perform subsurface exploration program consisting of 2 borings.
2. Evaluate the soil conditions, proposed recommend preliminary helical pile design, installation procedure, and other soil properties under or in the vicinity of the proposed foundations.
3. Summarize the results and recommendations in this geotechnical report.

Our scope of services did not include an environmental assessment to evaluate the subsurface conditions related to hazardous or toxic materials in the soil, bedrock, surface water, or groundwater around the site. Any statement in this report or on the boring logs regarding odors, suspicious items or conditions is strictly for the information of the client. We recommend engaging a qualified environmental professional, if necessary, to perform environmental services prior to/during construction.

2.2 Existing Structures and Site History

The site is located in Revere, Massachusetts on Belcher Street, which is a side street located off of Broad Sound Avenue. There are no existing structures within the limits of the proposed residential structure. There is a concrete seawall located east of the proposed building location. Residential structures surround the proposed location.

2.3 Proposed Construction

A pre-engineered modular house is proposed for the residential structure. We understand that slab-on-grade basement around 4 to 5 feet below grade is planned. Helical piles are required for the foundation to limit settlement.

3. SUBSURFACE CONDITIONS

3.1 Subsurface Exploration Program

The subsurface exploration program consisted of two borings designated as B-1 and B-2. The borings were completed on January 15, 2016 by Soil Exploration Corporation. An Acker 82 truck mounted rig was used to perform the borings. For boring B-1 a hollow stem auger was used to advance the boring to around 15 feet. At 15 feet into boring B-1, NW casing (3 inch inner diameter) was used to advance the boring as needed. For boring B-2, a hollow stem auger was used to advance the boring to 35 feet. Split spoon samples were collected in 5 foot sampling intervals until the bottom of the exploration in boring B-1 and until 30 feet in boring B-2 where samples were taken in 2 foot intervals from 30 to 34 feet and from 35 to 39 feet below ground surface. Refer to Figure 2 for the approximate location of the borings with respect to the existing conditions.

The drilling techniques and sampling methods are noted on the logs. The soil samples were collected using a 2-inch outside diameter, 24 inch long split-spoon sampler in accordance with ASTM D1586 procedures. The sampler was inserted into the borehole and then advanced 24 inches into undisturbed materials using a 140-pound automatic hammer and a 30-inch drop height. The total number of blows required to advance the sampler the second and third 6-inch intervals is referred to as the Standard Penetration Test (SPT) N-value, which can be correlated to the shear strength and density of the soil.

A GTR field representative was on-site during the boring program to observe the drilling activities and log the soil samples. The soil samples were classified according to the Modified Burmister Method and subsequently collected in glass jars for further testing and/or identification. Appendix B contains copies of the boring logs.

3.2 Subsurface Profile

The subsurface conditions typically consist of layer of a granular fill overlying an organic silt layer, overlying silty clay. At nearby previous sites, granular till was encountered below the clay at around 60 to 65 feet below grade.

3.2.1 Fill

The top layer of soil is a granular fill composed primarily of loose to very dense, brown, fine to medium sand, some gravel, and trace inorganic silt. The fill in this area extends to approximately 15 feet below ground surface elevation (BGS).

3.2.2 Organic Silt

A layer of organic silt was encountered below the fill. This layer was composed typically of soft to medium stiff, black, organic silt with little to trace wood fibers and trace sand. The organic silt extends from approximately 15 feet BGS down to around 23 to 25.5 feet BGS.

3.2.3 Silty Clay

Beneath the organic silt, a layer of silty clay was encountered. This layer was composed of medium stiff to very stiff, grey, silty clay in the upper 15 feet. The clay becomes softer with depth. This layer extends from below the organic silt down to around 39 to 51 feet BGS.

3.2.4 Groundwater

Groundwater was encountered in both borings around 8 feet below ground surface elevation. The groundwater levels represent conditions during field activities at the time of drilling and, therefore, different levels due to storm events and/or tidal fluctuations should be anticipated.

3.3 Soil Design Parameters

Table 1 lists the soil parameters recommended for design based on our review of the boring logs. Representative SPT N-values of the soil layers were used to estimate the shear strength.

Table 1. Recommended Soil Design Parameters

Soil Description	Unit Weight (lb/ft ³)	Friction Angle (°)	Su (ksf)
Fill	120	32	-
Organics	100	-	.3
Silty Clay	120	-	1.5 – upper 10 feet

4. RECOMMENDED FOUNDATION SYSTEM

4.1 General

The recently completed borings for this study indicate that the fill extends to 15 feet below grade over a 10 foot thick organic silt layer. Beneath the organic silt a soft to very stiff clay is encountered. Due to the highly compressible nature of the near subsurface profile, we recommend using helical piles to support the foundation of the residential structure. We

anticipate that these helical piles will tie into footings below grade. We recommend the slab be placed on grade. Some total and differential settlement would be anticipated for the slab on grade. Those settlements could be to the order of 1 inch over the long term. The footing should be designed in accordance with the MSBC. The final depth of the footings and slab should be provided to us so we can confirm/verify our design and recommendations.

4.2 Axial Compression Capacity

We recommend a 8 kip allowable design load for the helical piles. This is based on the blow counts encountered around 30 to 35 feet below ground surface in the silty clay. We recommend a double helix pile consisting of plate diameters of 10 and 12 inch with a 2-7/8 inch O.D. pipe. The estimated embedment length of the helical piles ranges from 30 feet to 35 feet below existing grade (or 5 to 10 feet into the clay). The helical pile contractor should submit an installation procedure and pile design for their proposed means and methods. If a higher design load is required our office can evaluate different configurations of the helical pile to increase the load.

4.3 Installation Requirements

Piles should be installed a minimum of 30 feet below existing grade and to the required torque. The helical piles shall be engaged and advanced into the soil in a smooth continuous manner at a rate of 4 to 5 revolutions per foot. Sufficient downward pressure shall be applied to uniformly advance the helical pile sections. The rate of rotation and magnitude of down pressure shall be adjusted for different soil conditions and depths. The torque shall be measured by a torque indicator capable of torque measurement in increments of 500 ft-lbs or less. The torque measured during the installation shall be at least 2000 ft-lbs and not exceed 8,000 ft-lbs for the given pipe size. The clay at this site indicated that it became softer with depth. Therefore we do not recommend installing the piles beyond 35 feet below existing grade. If the required torque is not obtained by this depth, do not proceed to install piles further. Our office should be notified and additional piles may be required. The contractor shall verify that all helical piles may be installed in accordance with pertinent codes and regulations using their means and methods. The means and methods, proposed materials, and pile calculations shall be submitted and reviewed to ensure continuity with the project and the recommended design parameters. All designs and installation procedures should be stamped by a professional engineer licensed in the Commonwealth of Massachusetts.

5. CONSTRUCTION CONSIDERATIONS

5.1 Excavations

We do not anticipate any significant excavations however; any excavations over 4 feet in depth should be performed in accordance with OSHA regulations by sloping or using temporary earth support. All excavations should be performed in the dry as described in the dewatering section below. Excavations should be regularly evaluated for signs of movement or unsafe conditions by a competent person as defined by OSHA. The lateral limits of the excavation under each footing (the zone of influence) should be determined as follows:

- (1) offset a distance of one foot from the edge of the footing,
- (2) extend a line at an angle of 1H:1V from the offset until it intersects the subgrade.
- (3) repeat this for every edge of the footing.

The contractor should submit their chosen excavation procedure (support system, if required,) for review. The submittal should include the assumptions made regarding soil properties, geometry of excavation, lateral earth pressures and surcharge loads, staging and sequencing, and wall design calculations. The submittal should be prepared and stamped by a professional engineer licensed in the Commonwealth of Massachusetts.

5.2 Dewatering

Any water removed from the excavations should be evaluated and, if necessary, disposed of in accordance with local and federal regulations. Consideration should be given to the lead-time necessary to test the water and obtain the EPA permit for discharging back into local storm drains or into the river. Although we do not expect the excavation will be deep enough to encounter significant groundwater, the contractor should submit their water control plan for review if necessary. The water control plan should be submitted with the excavation procedure/earth support design if needed. The water control plan should be prepared and stamped by a professional engineer licensed in the Commonwealth of Massachusetts and submitted for review

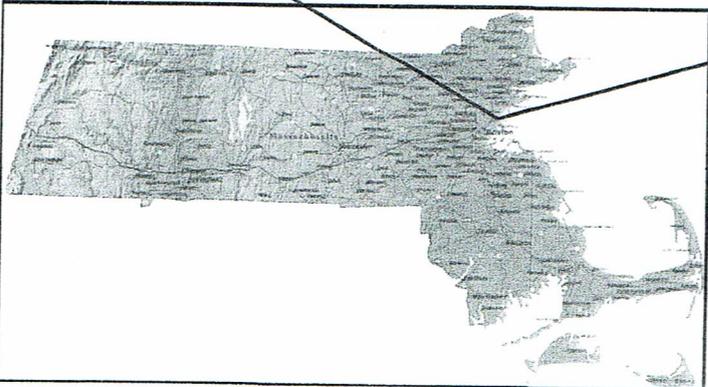
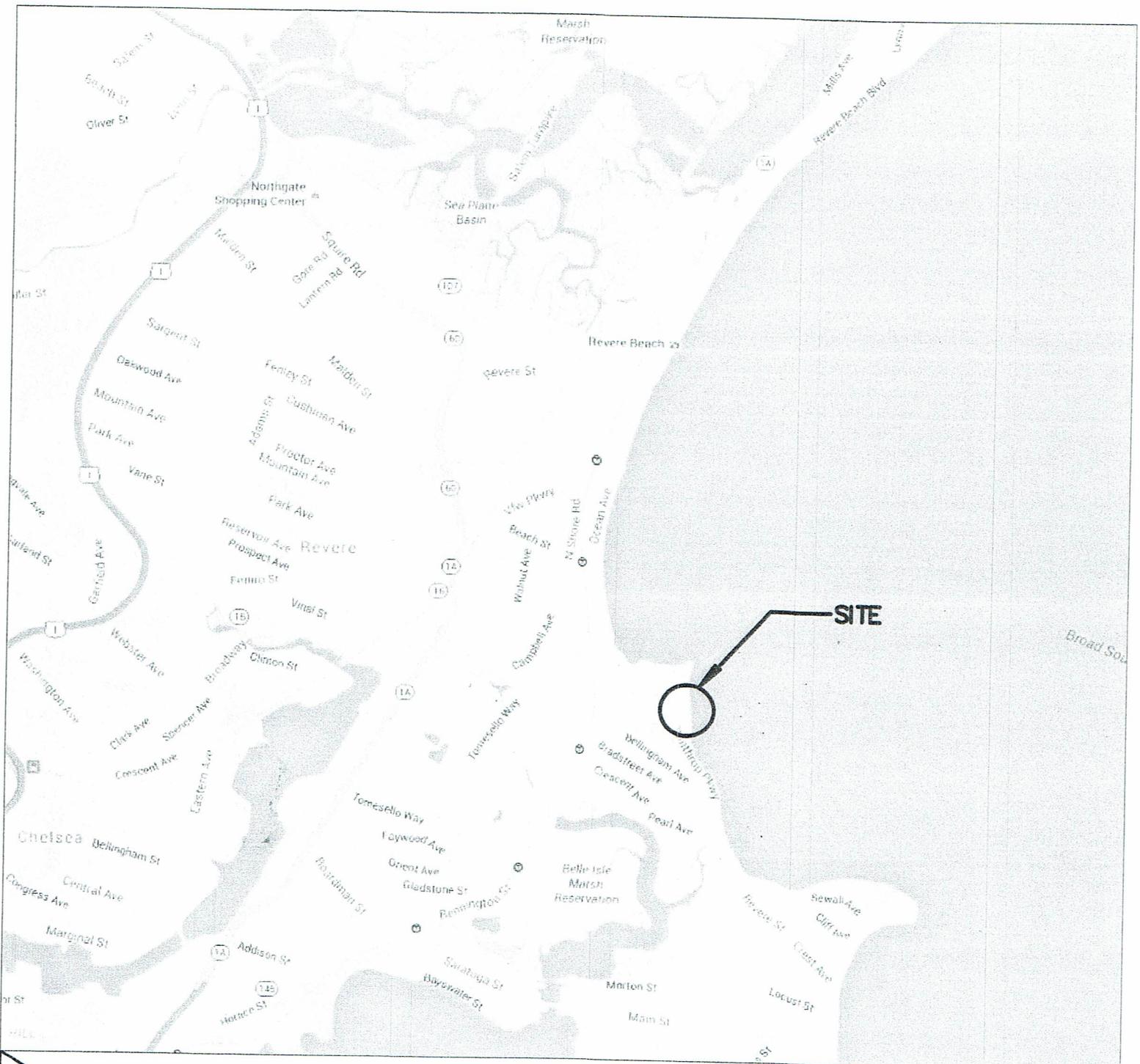
5.3 Construction Monitoring

It is recommended that a geotechnical engineer or qualified geotechnical technician from our office be present during construction to monitor and record the installation of the helical. The installation torque and revolutions per foot with depth for each pile shall be recorded. All piles satisfy the minimum embedment requirements.

5.4 Final Design, Specifications, and Plan Review

GTR should be given the opportunity to review final plans and specifications for the foundations systems, earthwork, and other items related to our scope to confirm that the recommendations contained in our report are interpreted and implemented as intended.

FIGURES



**BELCHER STREET
REVERE, MASSACHUSETTS 02151**

LOCUS PLAN

GEOSCIENCES TESTING AND RESEARCH, INC.

65 MIDDLESEX STREET, SUITE 225 (TEL) 978-251-9396
NORTH CHELMSFORD, MA. 01863 (FAX) 978-251-9396



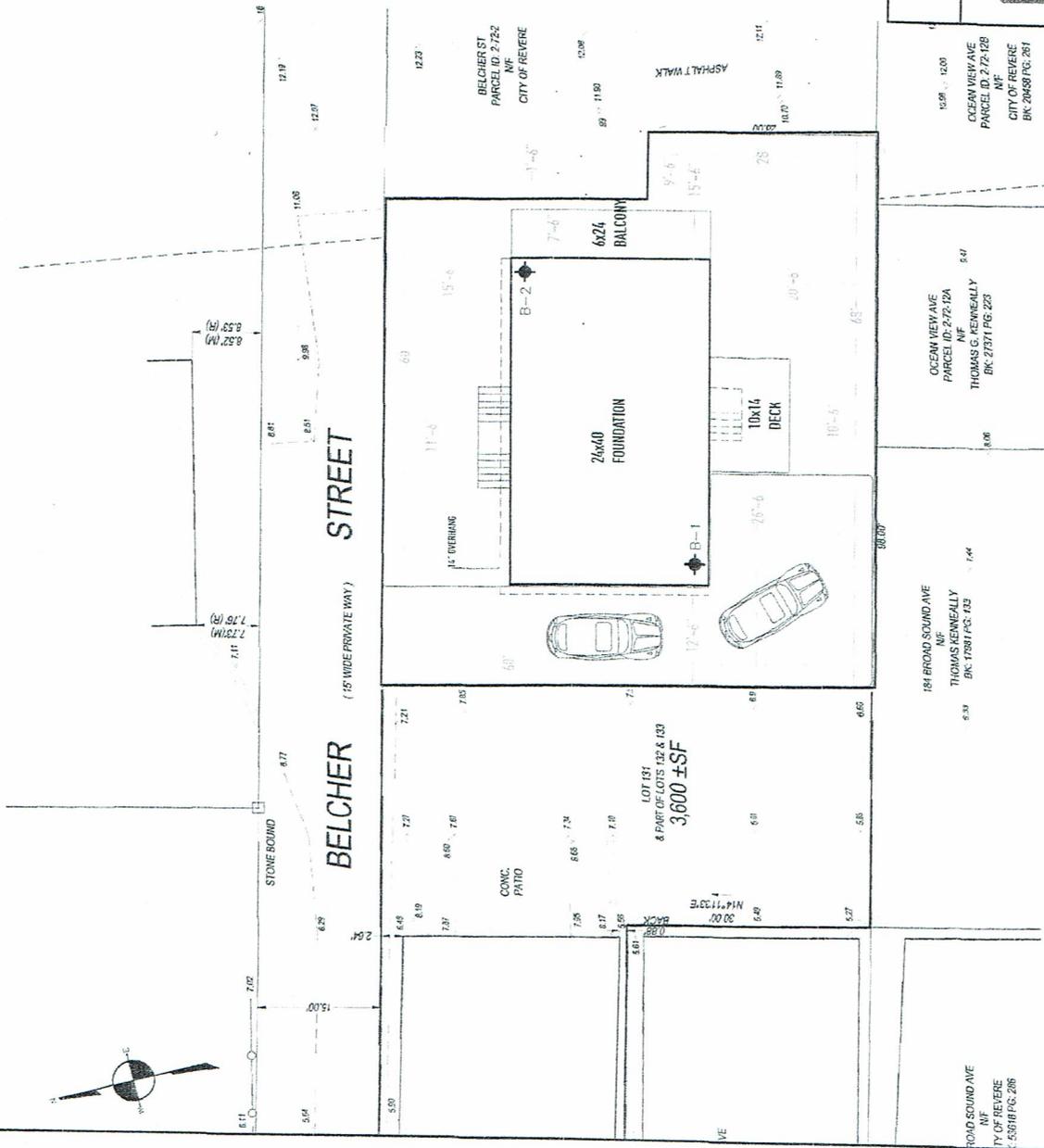
DESIGNER:	JLE	SCALE:	N/A	REVISIONS:
CHECKER:	LRC	PROJECT NO.:	16.102	
DATE:	1/25/2016	DRYER NO.:	FIGURE 1	

BORING LEGEND

- ◆ LOCATION OF BORINGS PERFORMED BY SOIL EXPLORATION CORP., ON JANUARY 15, 2016. BORINGS OBSERVED BY GTR PERSONNEL.

BORING NOTES

1. THE LOCATIONS OF THE BORINGS ARE APPROXIMATE AND SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED TO LOCATE THEM. THE BORINGS WERE TAPED IN THE FIELD BY GTR PERSONNEL AND REFERENCED FROM EXISTING FEATURES OR STRUCTURES LOCATED ON THE SITE.
2. THE LOCATIONS OF ALL EXISTING AND PROPOSED STRUCTURES AND FEATURES SHOULD BE CONSIDERED APPROXIMATE.



**BELCHER STREET,
REVERE, MASSACHUSETTS 02151**

**BORING LOCATION
PLAN**

GEOSCIENCES TESTING AND RESEARCH, INC.
55 MIDDLESEX STREET, SUITE 225 (TEL) 978-251-9395
NORTH CHELMSFORD, MA 01863 (FAX) 978-251-9386

OWNER: JLE	SCALE: N/A	REVISION: 014
CHK BY: LRC	PROJECT NO: 16.102	
DATE: 1/25/2016	SHEET NO: FIGURE 2	



APPENDIX A
GEO TECHNICAL LIMITATIONS

GEOTECHNICAL LIMITATIONS

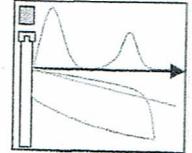
1. The analyses and recommendations in this report are based in part upon the data obtained from the subsurface explorations. The nature and extent of variations between these explorations may not become evident until construction. If variations become evident, we will need to re-assess our recommendations provided in this report.
2. The simplified soil profile described in this report is intended to convey trends in subsurface conditions. Limited data was available. The boundaries between the strata are approximate and are idealized to convey trends in the subsurface information. The actual soil transitions are most likely more erratic than presented.
3. Water level readings from the borings are representative at the time of drilling. The data have been reviewed and interpretations have been made in the report. It must be noted, however, that fluctuations in the groundwater level does occur due to variations in rainfall, temperature, and other factors occurring since the measurements were made.
4. In the event that any changes in the nature, function, design, or location of the proposed construction are planned, then the conclusions of this report may become invalid. Geosciences Testing and Research, Inc. (GTR) personnel must review these changes so that they may be incorporated into our report. It is recommended that GTR be provided the opportunity for a general review of the final design and specifications so that our recommendations are properly interpreted and incorporated in the project documents.
5. It is recommended that GTR be retained to provide soil engineering services during the final design and/or construction phases of the project. This will enable compliance with our recommendations and to allow design changes as they become evident during construction as needed.
6. This report has been prepared for the exclusive use of client as related to this project. The report has been carried out in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made.
7. This geotechnical engineering report has been prepared for this project by GTR, is for design purposes only, and is not intended for bidding purposes. Contractors wishing a copy of this report may do so with the understanding that the scope is limited to design issues only.

**APPENDIX B
TEST BORING LOGS**



GEOSCIENCES TESTING AND RESEARCH, INC.

55 Middlesex Street, Suite 225, North Chelmsford, MA.
 Phone: (978) 251-9395 Fax: (978) 251-9396



Boring No: B-1 Contract No: 15-133 Pg. No.: 1 of 2
 GTR Project Num: 16.102 GTR Rep: Jonathan Ernst
 Project Name: Revere Geo Drilling Company: Soil Exploration Corp.
 Location: Revere, MA

Driller: Don Helper(s): Nick
 Start Date: 1/15/2016 End Date: 1/15/2016
 Gnd Surface Elev (ft): -
 Loc. North: - East: -
 Note: Ackere 82 Truck Mounted Rig - Automatic Hammer

Equipment	Casing	Sampler	Core	Groundwater		Depth (ft)		
Type				Date	Time	Water	Casing	Hole
Size I.D.	4"/3"	1.75"	-	15-Jan	8:00	8'	10'	10'
Hammer Wt.	140 lb	140 lb	-					
Hammer Fall	30"	30"	-					

Depth	Case BPF	Sample Data					Description and Classification	Stratum	Additional Data	Notes
		No.	Pen/Revy	Depth (ft)	Blows per 6in	Field Test				
5		S-1	24" / 6"	0' - 2'	9 - 20		Dry, dense, brown, fine SAND, some gravel, little organic silt	TOPSOIL 6"	1,2	
					22 - 16					
10		S-2	24" / 0	5' - 7'	11 - 5		No Recovery	FILL	2	
					4 - 7					
15		S-3	24" / 5"	10' - 12'	17 - 4		Wet, loose, grey, f/m GRAVEL, little sand, trace silt	15"	3	
					3 - 4					
20		S-4	24" / 0	14' - 16'	1 / 1		No Recovery	ORGANIC SILT	4	
					2 / 3					
25		S-5	24" / 24"	19' - 21'	2 - 2		Wet, soft, black/grey, organic SILT, little wood fibers	23'	4	
					2 - 4					
25		S-6	24" / 16"	24' - 26'	8 - 4	PP=0.8	Wet, medium stiff, grey, silty CLAY	SILTY CLAY	4	
					4 - 4	TV=0.9				

- NOTES:**
- Top 1" of sample - Organic Silt, trace root fibers
 - Cobble in tip of spoon
 - Switch to 3 inch casing - drive and wash method
 - Petroleum odor
 - Possible change in layer at 23' to silty clay - casing harder to drive
 - PP = Pocket Penetrometer in TSF, TV = Torvane in TSF

Order of Sample Description (Modified Burmister)

- Moisture Content: Dry, Moist, Wet
- Soil Relative Density or Consistency
- Color
- Major Component: Should be capitalized
- Minor Component: "and" - 35% to 50% minor grain size
 "some" - 20% to 35% minor grain size
 "little" - 10% to 20% minor grain size
 "trace" - < 10% of minor grain size

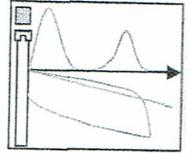
PENETRATION RESISTANCE (N) GUIDE

Cohesionless Soils (Sands)		Cohesive Soils (Clays)	
Relative Density / Blows per Foot		Consistency / Blows per Foot	
Very Loose >>	0 - 4	Very Soft >>	Below 2
Loose >>	4 - 10	Soft >>	2 - 4
Medium Dense >>	10 - 30	Medium Stiff >>	4 - 8
Dense >>	30 - 50	Stiff >>	8 - 15
Very Dense >>	Over 50	Very Stiff >>	15 - 30
		Hard >>	Over 30



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Boring No: B-1 Contract No: 15-133 Pg. No.: 2 of 2
 GTR Project Num: 16.102 GTR Rep: Jonathan Ernst
 Project Name: Revere Geo Drilling Company: Soil Exploration Corp.
 Location: Revere, MA

Driller: Don Helper(s): Nick
 Start Date: 1/15/2016 End Date: 1/15/2016
 Gnd Surface Elev (ft): -
 Loc. North: - East: -
 Note: Ackere 82 Truck Mounted Rig - Automatic Hammer

Equipment	Casing	Sampler	Core	Groundwater		Depth (ft)		
Type				Date	Time	Water	Casing	Hole
Size I.D.	4"/3"	1.75"	-	15-Jan	8:00	8'	10'	10'
Hammer Wt.	140 lb	140 lb	-					
Hammer Fall	30"	30"	-					

Depth	Case BPF	Sample Data					Description and Classification	Stratum	Additional Data	Notes
		No.	Pen/ Revv	Depth (ft)	Blows per 6in	Field Test				
35		S-7	24" / 23"	29' - 31'	4 / 8	PP=1.5	Wet, very stiff, grey, silty CLAY	SILTY CLAY	4, 6	
					8 / 9	TV=1.75				
40		S-8	24" / 18"	34' - 36'	5 / 7	PP=1.25	Wet, stiff, grey, silty CLAY	SILTY CLAY	6	
					5 / 8	TV=0.9				
45		S-9	24" / 24"	39' - 41'	2 / 1	PP=0.5	Wet, soft, grey, silty CLAY	SILTY CLAY	6	
					1 / 2	TV=0.5				
50		S-10	24" / 24"	44' - 46'	woh / 2	PP=0.5	Wet, medium stiff, grey, silty CLAY	SILTY CLAY	6	
					3 / 2	TV=0.3				
55		S-11	24" / 24"	49' - 51'	woh / 1	PP=0.25	Wet, soft to medium stiff, grey, silty CLAY	SILTY CLAY	6	
					3 / 2	TV=0.3				
							Boring Terminated @ 51' BGS	51'		

- NOTES:**
- Top 1" of sample - Organic Silt, trace root fibers
 - Cobble in tip of spoon
 - Switch to 3 inch casing - drive and wash method
 - Petroleum odor
 - Possible change in layer at 23' to silty clay - casing harder to drive
 - PP = Pocket Penetrometer in TSF, TV = Torvane in TSF

Order of Sample Description (Modified Burmister)

- Moisture Content: Dry, Moist, Wet
- Soil Relative Density or Consistency
- Color
- Major Component: Should be capitalized
- Minor Component: "and" - 35% to 50% minor grain size
 "some" - 20% to 35% minor grain size
 "little" - 10% to 20% minor grain size
 "trace" - < 10% of minor grain size

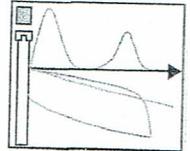
PENETRATION RESISTANCE (N) GUIDE

Cohesionless Soils (Sands)		Cohesive Soils (Clays)	
Relative Density / Blows per Foot		Consistency / Blows per Foot	
Very Loose >> 0 - 4		Very Soft >> Below 2	
Loose >> 4 - 10		Soft >> 2 - 4	
Medium Dense >> 10 - 30		Medium Stiff >> 4 - 8	
Dense >> 30 - 50		Stiff >> 8 - 15	
Very Dense >> Over 50		Very Stiff >> 15 - 30	
		Hard >> Over 30	



GEOSCIENCES TESTING AND RESEARCH, INC.

55 Middlesex Street, Suite 225, North Chelmsford, MA.
 Phone: (978) 251-9395 Fax: (978) 251-9396



Boring No: B-2 Contract No: 15-133 Pg. No.: 1 of 2
 GTR Project Num: 16.102 GTR Rep: Jonathan Ernst
 Project Name: Revere Geo Drilling Company: Soil Exploration Corp.
 Location: Revere, MA

Driller: Don Helper(s): Nick
 Start Date: 1/15/2016 End Date: 1/15/2016
 Gnd Surface Elev (ft): -
 Loc. North: - East: -
 Note: Ackere 82 Truck Mounted Rig - Automatic Hammer

Equipment	Casing	Sampler	Core	Groundwater		Depth (ft)		
Type	Size I.D.	Hammer Wt.	Hammer Fall	Date	Time	Water	Casing	Hole
HSA	4"	140 lb	30"	15-Jan	12:10	8'	10'	10'
SS	1.75"	140 lb	30"					

Depth	Case BPF	Sample Data					Description and Classification	Stratum	Additional Data	Notes
		No.	Pen/Revy	Depth (ft)	Blows per 6in	Field Test				
5		S-1	24" / 11"	0' - 2'	11 / 50		Dry, very dense, brown, organic SILT, some gravel, little sand	TOPSOIL		1
					13 / 17					
10		S-2	24" / 12"	5' - 7'	8 - 24		Dry, dense, brown, f/m Gravel, some f/m sand, trace silt	FILL		
					17 - 16					
15		S-3	24" / 14"	10' - 12'	7 - 10		Wet, medium dense, grey, f/m gravel, some f/m sand, trace silt			2
					8 - 4					
20		S-4	24" / 24"	15' - 17'	1 / 1		Wet, soft, black/grey, organic SILT, trace wood fibers			2
					2 / 2					
25		S-5	24" / 24"	20' - 22'	woh / 2		Wet, soft to medium stiff, black, organic SILT, little wood fibers, trace sand	ORGANIC SILT		2
					2 / 2					
		S-6	24" 23"	25' - 27'	2 / 3	PP=1.25	Wet, medium stiff, grey, silty CLAY			2,3,4
					4 / 9	TV=0.75				
							SILTY CLAY			

- NOTES:**
- Top 6" of sample - Organic Silt, trace root fibers
 - Petroleum odor
 - Top 1" of sample contained organic silt with trace root/wood fibers
 - PP = Pocket Penetrometer in TSF, TV = Torvane in TSF

Order of Sample Description (Modified Burmister)

- Moisture Content: Dry, Moist, Wet
- Soil Relative Density or Consistency
- Color
- Major Component: Should be capitalized
- Minor Component: "and" - 35% to 50% minor grain size
 "some" - 20% to 35% minor grain size
 "little" - 10% to 20% minor grain size
 "trace" - < 10% of minor grain size

PENETRATION RESISTANCE (N) GUIDE

Cohesionless Soils (Sands)		Cohesive Soils (Clays)	
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Loose >> 4 - 10		Soft >> 2 - 4	
Medium Dense >> 10 - 30		Medium Stiff >> 4 - 8	
Dense >> 30 - 50		Stiff >> 8 - 15	
Very Dense >> Over 50		Very Stiff >> 15 - 30	
		Hard >> Over 30	

LEGAL NOTICE
PUBLIC NOTICE

Notice is hereby given in accordance with the provisions of Section 40 Chapter 131 of the Massachusetts General Laws (Wetlands Protection Act) that the City of Revere Conservation Commission will hold a Public Hearing, **November 2, 2016** at 7:00 PM in the City Council Chamber of Revere City Hall, 281 Broadway, Revere, MA 02151 upon the application (Notice of Intent) of **the Cavallo Corporation to construct a single family house at 0 Belcher St , Assessors Map 2, Block 72 Lots 131 and parts of Lots 132 and 133.**

A copy of the Applicant's "Notice of Intent" application will be available at the Department of Planning & Community Development at Revere City Hall Monday through Thursday 8:15 AM to 5:00 PM
<http://www.revere.org/departments/conservation-commission/meetingagendas>

Andrew B. DeSantis, Chairman
Revere Conservation Commission