

**Notes:**

- This map has been prepared in accordance with sections 20-300b, 1 through 20-300d, 20 of the regulations of Connecticut state agencies. "Thomas A. Stevens & Associates, Inc. is a member of the Connecticut Association of Land Surveyors, Inc. On September 26, 1994. This survey is a general location survey conforming to horizontal accuracy class A standards and topographical accuracy class T-1 as required to be used for the layout and design of proposed improvements on this property.
- Property boundary information not noted herein has been compiled from other maps, record research or other sources of information. It is not to be construed as having been obtained as the result of a field survey and is subject to change as an accurate field survey into existence.
- Reference is made to the following map(s):
  - Topographic Survey of 506 Whitfield Street, Dark Line (aka Beach Avenue) (Assessor ID # 29-83) & East Avenue (Assessor ID# 29-81) Guilford, Connecticut. Prepared by William Thompson, AIA & Associates, LLC. Scale 1"=20'. Date August 6, 2015. Sheet 2 of 2 by Gesik & Associates, P.C.
- Lot is located within the R-1 zone.
- Lot area = 73,284 sq. ft. or 2.08 acres (see reference map).
- Topographic information depicted on this drawing is based on a 1946 referenced map and field survey conducted by this office on October 28, 2015. All existing features and conditions are not necessarily depicted or noted herein. Property line information shown on this drawing is approximate only and is provided to the contractor's general information.
- All elevations are referenced to the North American Vertical Datum of 1988.
- All applicable areas, if required, shall be maintained by site fence, and other barriers. Soil erosion and sedimentation control measures shall be maintained until vegetation is established or suitable systems is installed to the satisfaction of the Zoning Enforcement.
- Appropriate turning radii for service turns around and emergency access to be maintained.
- Existing runoff coefficient (c = 0.75) difference in runoff value (c = 0.90) to be mitigated for 1" rainfall.
- Cross slope station 0+150 to 1+300 - 1/8"FT drainage Southwesterly. Cross slope station 2+70 to 3+700 - 1/8"FT drainage Northwesterly.
- Existing septic system to be removed has an estimated BLA = 465 sq. ft. Proposed system = 647 x 130 = 8410 sq. ft. E.A. Fee with no suitable existing suitable system. BLA as required.

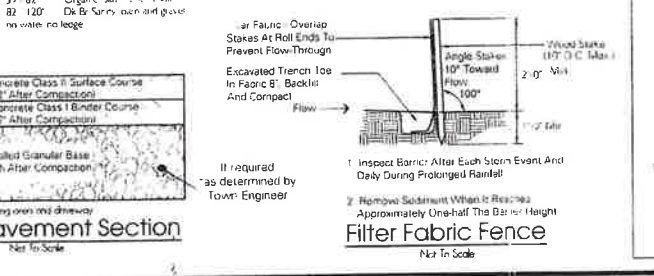
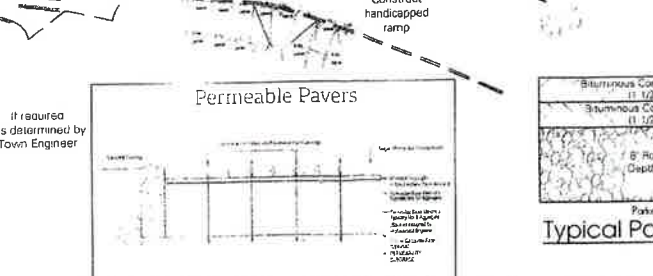
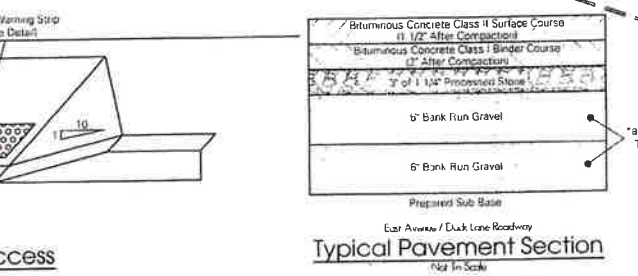
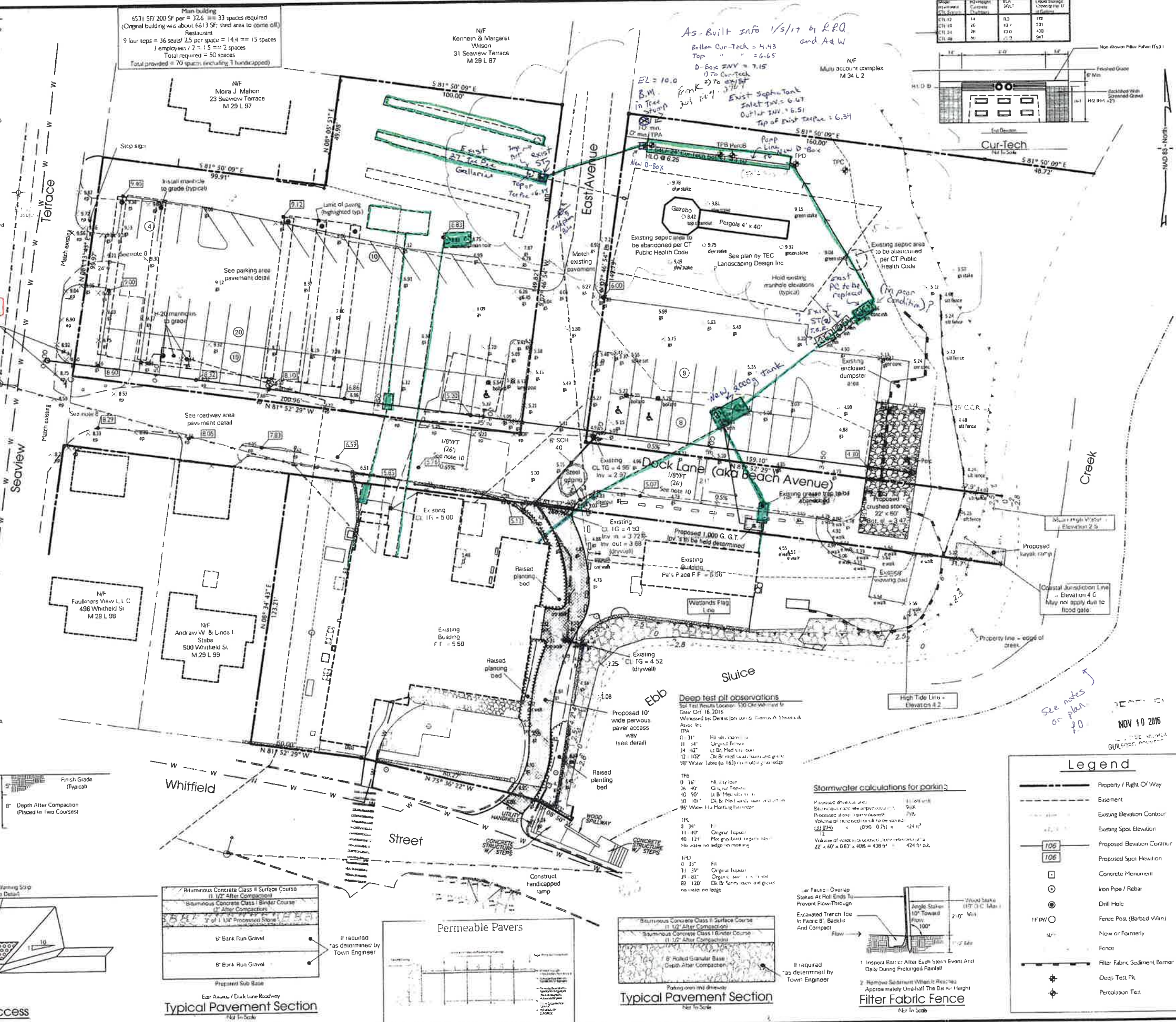
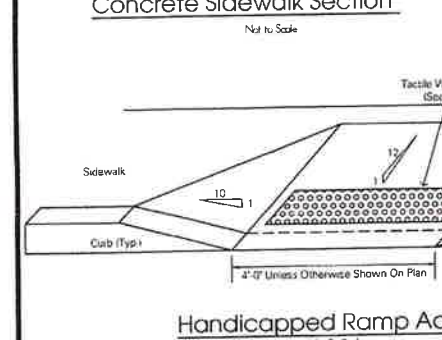
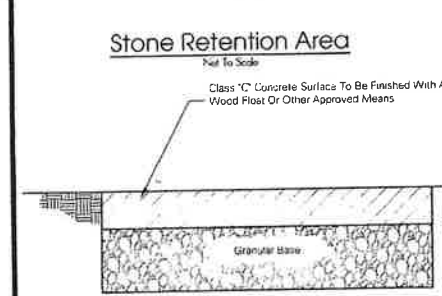
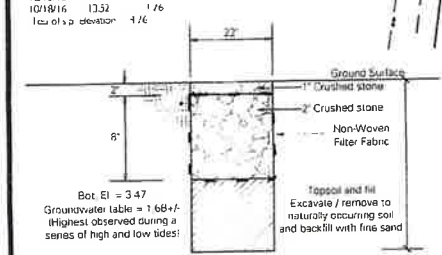
**Percolation test data**

Percolation test performed on 07-29-16 by Thomas A. Stevens & Associates, Inc.

Perce. Depth	Perce. Rate
11:04 4"	7.13 12"
11:09 5"	7.23 17"
11:14 6 1/2"	7.28 20"
11:19 8 3/4"	7.33 27"
11:24 7"	7.38 27"
11:29 7 1/2"	7.43 23 1/2"
11:34 7 1/2"	7.48 24"
11:39 7 3/4"	7.53 24 1/2"
11:44 8"	7.58 25"
Percolation rate	8.03 26"
20 Min (1 inch)	Permit on file
Scale description	10 Min (1 inch)
0 - 20" (top) 1/8" misc. fill	
20 - 76" (bottom) 1/8" misc. fill	

**Standpipe readings (spillway closed)**

Date	Time	Water Elev.
10/11/16	16:05	1.42
10/12/16	07:35	1.68
10/12/16	11:13	1.68
10/13/16	11:11	1.59
10/18/16	13:52	1.76
Low of a elevation		4.76



**Legend**

- Property / Right Of Way
- Easement
- Existing Elevation Contour
- Existing Spot Elevation
- Proposed Elevation Contour
- Proposed Spot Elevation
- Concrete Monument
- Iron Pipe / Rebar
- Drill Hole
- Fence Post (Barbed Wire)
- Now or Formerly
- Fence
- Filter Fabric Sediment Barrier
- Deep Test Pit
- Percolation Test

**Deep test pit observations**

Soil Test Results Location: 530 Old Wharf Road  
Date: Oct 18 2016  
Witnessed by: Derek Johnson & Thomas A. Stevens & Associates, Inc.

Depth	Soil Description
0 - 31"	Fill with sand
31 - 34"	Original Topsoil
34 - 42"	1.5' Bed with sand
42 - 102"	Die Bedded sand, gravel, and silt to 98" Water Table (to 163") in multiple locations
102 - 116"	Fill with sand
116 - 124"	Original Topsoil
124 - 127"	Max. gravel depth 127" No water on ledge in monitoring
127 - 143"	Fill
143 - 151"	Original Topsoil
151 - 157"	Die Bedded sand, gravel and silt to 98" water no ledge

**Stormwater calculations for parking**

Area	Volume
Proposed 1,000 G.G.T.	1,000 gal
Proposed 3,000 G.G.T.	3,000 gal
Volume of runoff to all to be stored	4,244 gal
Volume of runoff to be stored, daily reduction to a 22' x 40' x 0.87' x 408' = 438 gal	424 gal

**Permeable Pavers**

Buttressed Concrete Class II Surface Course (1 1/2" After Compaction)

Buttressed Concrete Class I Binder Course (1 1/2" After Compaction)

6" Bank Run Gravel

6" Bank Run Gravel

Prepared Sub Base

East Avenue / Dark Lane Roadway

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**Improvement Location Survey - Proposed**

**Coastal Site Plan And Grading Plan**  
Prepared For  
**Marine Studies Research**

Assessor's Map 29, Lots 81, 82 & 100

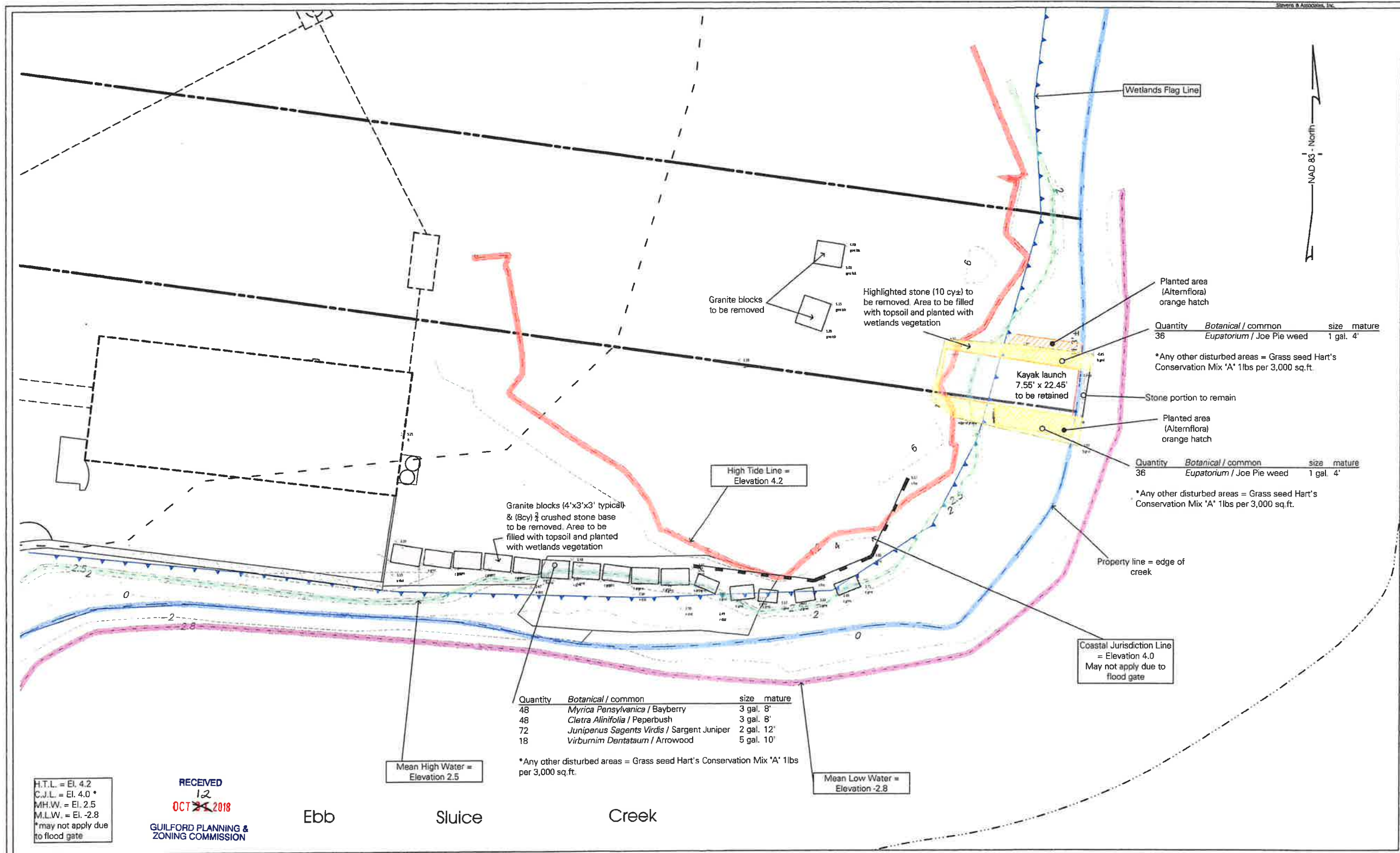
506 Whitfield Street  
Guilford, Connecticut

**Legend**

Scale: 1"=20'

Revisions	Date
1	06-22-16
2	08-25-16
3	09-09-16
4	09-22-16
5	10-12-16
6	10-12-16
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99	10-12-16
100	10-12-16





Revisions	Date
08/07/18	
C-10/4	
08/19	
Askill ramp	
Anthony Bobbie	
Thomas Stevens	

Scale: 1" = 10'

1 of 1

Improvement Location Survey ~ Record

**As Built & Remediation Plan**  
Prepared For  
**Marine Studies Research**  
Assessor's Map 29, Lots 81, 82 & 100  
506 Whitfield Street  
Guilford, Connecticut

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To the best of my knowledge and belief this map is substantially correct as noted hereon.

*Thomas A. Stevens*  
Thomas A. Stevens, P.E. & L.S. Ct. Reg. No. 10203

This map is not valid without the signature and seals of the above licensed Civil Engineer and Land Surveyor.

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