



PLANNING & DEVELOPMENT

Date: May 26, 2021

To: Waterford Conservation Commission
From: Maureen FitzGerald, Environmental Planner

Re: Inland Wetland Application #C 21-04
198 Shore Road: Stream Channel Stabilization
Application Review Comments

Proposed Activity:

Placement of 6-8 inch diameter rip-rap along the toe of the stream embankments at 198 Shore Road for the purpose of erosion control and bank stabilization. Approximately 240 linear feet of stream channel embankment on the north side of the intermittent stream is proposed to be lined with between 5 - 8 feet width of rip-rap and 180 linear feet of stream channel embankment on the south side of the stream is proposed to be lined with a 5-8 feet width of rip-rap at the toe. Refer to the attached site plan.

A portion of the rip rap, approximately 200 sq. ft., is proposed within the flagged wetland areas bordering the northern stream channel between wetland flags #3 and #6, and the embankment above this area re-graded. Approximately 860 sq. ft. of wetland along the southern channel toe is proposed to be altered with rip-rap.

The plan proposes to remove the existing vegetation from the southern channel embankment and replant a 20 ft. wide area with a mix of trees, shrubs and herbaceous species. Existing vegetation will also be removed from 130 linear feet of the northern channel embankment and replanted.

The location of the property is shown on the attached aerial map.

Application Review Comments:

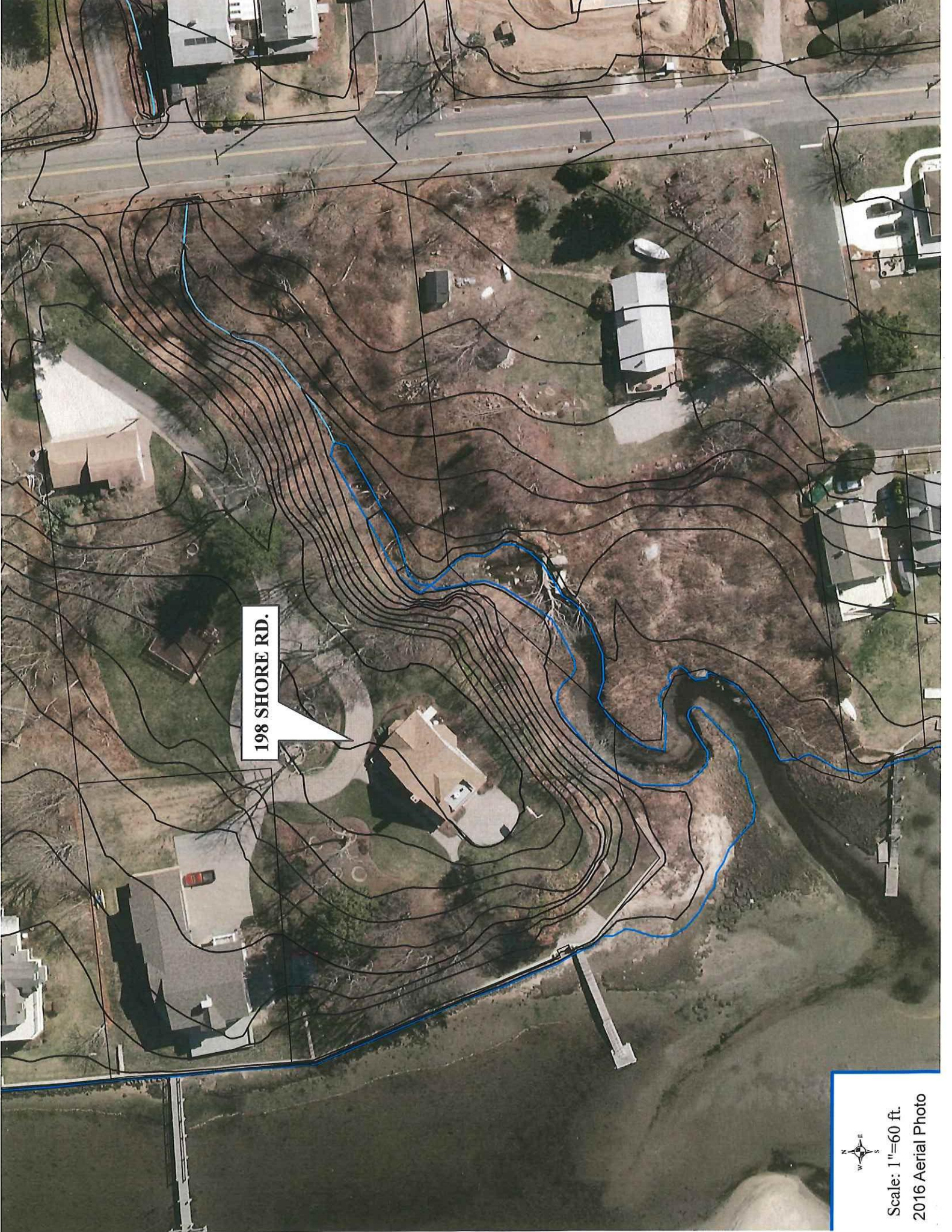
1. Information of the total cubic yardage of rip-rap, and the typical depth and extent of rip-rap to be placed at the toe of embankment should be provided. Cross sections indicating this detail should be provided in locations along both the northern and southern embankments.
2. An explanation of how the material will be placed at the toe of embankment, e.g. the type of machinery used, amount of slope disturbance, and any temporary stream crossings, is requested in order to understand the extent and duration of the regulated activities.
3. The plan proposes the alteration of 1060 square feet of riparian wetland /stream corridor with rip-rap to stabilize the toe of bank and support areas of embankment regrading. The application should discuss alternatives considered to reduce the total area of wetland and stream impacts, including vegetative solutions, reduced rip-rap extent or use of larger stone in areas to minimize direct impacts to the stream channel.
4. The extent of tidal influence in the stream channel needs to be identified. Rip-rap placement in tidally influenced waters is regulated by the State DEEP.

5. The channel stabilization work should be conducted during low flow summer dry conditions when the stream cross section is at its minimum.
6. A line of silt fence or other sediment control measure should be installed between the exposed slope soils and the newly placed rip-rap to control potential sedimentation impacts until such time that the slopes have become well-vegetated.
7. Methods for temporary stabilization of the grubbed and re-graded steep slopes within the riparian corridor are recommended to prevent soil eroding into the stream channel.
8. The plan should identify whether any existing canopy trees in or along the stream will be removed.



Maureen FitzGerald
Environmental Planner

attachments (2)



Scale: 1"=60 ft.
2016 Aerial Photo

NOTES:

THIS PLAN AND THE SURVEY IT IS BASED ON HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-208A HUMAN STANDARDS OF ACCURACY, CONTENT AND CERTIFICATION FOR SURVEYS AND MAPS. THE TYPE OF SURVEY IS A COMPARISON PLAN, TOPOGRAPHIC CLASS 1-B AND THE VERTICAL ACCURACY. THIS IS NOT A PROPERTY SURVEY OR BOUNDARY SURVEY AND ANY PROPERTY LINES DERIVED DO NOT REPRESENT A SURVEYOR'S PROPERTY/BOUNDARY OPINION.

NO DECLARATION IS EXPRESSED OR IMPLIED BY THIS MAP OR COPIES THEREOF UNLESS THE PRINT BEARS THE SURVEYOR'S TYPE SEAL AND ORIGINAL LIVE SIGNATURE OF THE SURVEYOR. HIS/HER NAME AND REGISTRATION NUMBER APPEAR BELOW OR THEREON.

JORDAN COVE

N/F
JOHN B LUCEY &
KIM C FRENZEL
190R SHORE ROAD

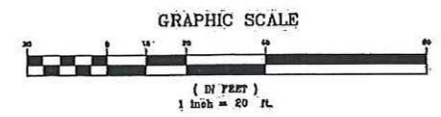
N/F
STACY A QUINN &
PAMELA G QUINN
200 SHORE ROAD

N/F
PAMELA W BERRY
194 SHORE ROAD

RECEIVED
MAY 11 2021
Planning & Development
Town of Waterford, CT

ON-SITE INLAND WETLANDS AREA= 4,200 SQUARE FEET
INLAND WETLANDS ACTIVITY= 1,060 SQUARE FEET
100' UPLAND REVIEW AREA ACTIVITY= 16,250 SQUARE FEET

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TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

James Bernado
JAMES BERNADO LICENSE #70121
DATE 5-4-2021

JAMES BERNADO
LAND SURVEYING, LLC
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WATERFORD, CONNECTICUT 06385
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NOTICE: THESE DOCUMENTS ARE PREPARED UNDER A CONTRACT AND ARE NOT TO BE USED FOR ANY OTHER PROJECT, LOCATION, OR PURPOSE WITHOUT THE WRITTEN PERMISSION OF THE SURVEYOR. THESE DRAWINGS ARE THE PROPERTY OF THE SURVEYOR.

LT#	DESCRIPTION	DATE
	REVISIONS	

COMPILE PLAN
PROPERTY OF
JOHN LOMBARDI, JR
FOR PROPERTY LOCATED AT
198 SHORE ROAD
TOWN OF WATERFORD - COUNTY OF NEW LONDON - CONNECTICUT

Sheet No.
S-01
SHEET 1 OF 1
Scale:
1" = 20'
Date
MARCH 17, 2021
Project No.
21002-WETLANDS

LEGEND
THE FOLLOWING SYMBOLS/ABBREVIATIONS MAY APPEAR ON THIS DRAWING

AC	ACRES	HTB	HIGH TIDE BUSH
BF	BASEMENT FLOOR	SP	SPARTINA PATCHES
BIT	BITUMINOUS	SA	SPARTINA ALTERNIFLORA
BOLD	BITUMINOUS CONCRETE UP CURBING	TR	TO BE REMOVED
CONC	CONCRETE	TYP	TYPICAL
DIA	DIAMETER	P-5	SOIL PIER TEST LOCATION
DB	DISTRIBUTION BOX	THIS	SOIL DEEP TEST LOCATION
EQP	EDGE OF PAVEMENT	TRAIL	TRAIL
ELEV	ELEVATION	HYDRAUL	HYDRAUL
FF	FINISHED FIRST FLOOR	TREE	TREE
LF	LINEAR FOOT	SETBACK	BUILDING SETBACK LINE
(MIN)	MINIMUM	CLEARING	CLEARING LIGHT LINE
M/L	MORE OR LESS	EXISTING	EXISTING TRACELINE
N/F	NOW OR FORMERLY	NEW	NEW CONTOUR
PVC	POLY VINYL CHLORIDE	SEWAGE	SEWAGE FENCE
SCH40	SCHEDULE 40	STORM	STORM DRAIN PIPE
S.E.	SPOT ELEVATION	STONE	STONE WALL
SF	SQUARE FEET	SEWER	SEWAGE SEWER
TR	TO REMAIN	W	WATER