

**BAXTER ROAD AND SCONSET BLUFF STORM DAMAGE PREVENTION PROJECT
NOTICE OF INTENT (DEP FILE NO. SE 048-2581)**

**RESPONSES TO QUESTIONS FROM NANTUCKET CONSERVATION COMMISSION ASKED AT
PUBLIC HEARING ON AUGUST 8, 2013**

August 15, 2013

To assist the Commission and the public with the review of the NOI, SBPF is presenting specific responses to the topics that were covered at the public hearing on August 8, 2013. The format of this document is to present a brief summary of each comment or question in bold followed by a response in regular text.

QUESTIONS/COMMENTS FROM CONSERVATION COMMISSION MEMBERS

I. DESIGN

Provide updated plans based on the 2013 LIDAR, including the new toe design and additional section views.

See the revised plans included with this submission, which are based on the recent (2013) LIDAR survey and include the new toe design and additional section views.

What is the southern extent of the Project Area?

The southern extent of the Project area has been moved to 63 Baxter Road so as to include only those areas where the coastal bank is actively eroding. The revised Project area is 63-119 Baxter Road, as shown on the attached plans.

What is the grain size data for the Project area?

The Applicant previously performed a thorough sediment sampling effort for an approximately three-mile section of the eastern shore of Nantucket extending from Sesachacha Pond to just south of the Town sewer beds. A total of 248 sediment samples were collected at various cross-shore positions along thirty-six defined transects spaced approximately every 500-feet, and included the coastal bank (where present), coastal dune (where present), coastal beach, wave breaking zone, and offshore area.

When these data were reviewed for the current revetment Project, it was determined that Transects L12 through L19 fell within the current Project area from 119 to 63 Baxter Road. Along each transect, bank samples were taken from the upper bank, middle bank, and lower bank. Transects L19 and L20 were located along a well-vegetated portion of the bank where no sediment was exposed; no Coastal Bank samples were collected along these transects. When grain size summary

characteristics were calculated just for those samples falling within the current Project area, the mean size for the coastal bank samples was 0.45 mm with an average silt content of 13.4%. Table 1 contains a summary of grain size results for the coastal bank within the Project area.

Table 1 Coastal Bank Grain Size Summary for the Project Area

	Coastal Bank	
	Mean grain size (mm)	Silt (%)
Minimum	0.18	0.4
Maximum	0.67	44.4
Mean	0.42	10.0

The results for the revetment Project area are very similar to both the summary statistics for the entire coastal bank and the summary statistics for the area from 99-55 previously considered for the marine mattress and gabion project. The mean grain size for the entire dataset of coastal bank samples was 0.42 mm with an average silt content of 12%. The mean grain size for the area from 99-55 Baxter Road previously considered for the marine mattress and gabion project is 0.45 mm with an average silt content of 13%.

II. CONSTRUCTION

Provide more details on the Construction Protocol.

- Stone Delivery: All stone, including the filter layer will be delivered via barge directly to the beach. Initially, a landing (or “pier”) barge will beach itself at high tide, setting its spuds (temporary pilings) at its seaward end, and dropping a ramp onto the beach. The location of the landing barge will be determined by the Contractor and is expected to be within or adjacent to the high priority area located seaward of 99-105 Baxter Road.

Delivery barges will tie off to the pier barge while the tug boat and/or anchor (crown) buoys keep the stern of the pier barge in place. All-terrain dump trucks will back onto the pier barge from the beach, and get loaded by an excavator aboard the barges. The excavator and the dumps will continue to work their way back until the delivery barge has been emptied.

The all-terrain dumps will deliver the stone to either the active work area, or designated staging areas within the bounds of the project. The staging areas will be temporary and will change, so are not specifically mapped, and will be determined by the contractor.

- Equipment Delivery: The equipment will mostly be delivered by barge, including: front end loaders, all terrain dumps, excavators and possibly a small crane. There will also be a

small all-terrain transport vehicle used for getting workers to and from Hoicks Hollow, where they will park their vehicles.

- Equipment Fueling: All construction equipment will be fueled at Hoicks Hollow by a local fuel truck, as far landward of resource areas as feasible.
- Revetment Installation: The toe of the revetment will be excavated in approximately 20' lengths at a time. There will be some minor cutting and filling required in order to achieve a relatively straight revetment, as shown on the section views. As the toe stones are being excavated, any excavated material in excess of what will be used for backfill will be used for filling behind the revetment in areas and smoothing the face of the bluff as required.

Once the toe is excavated, the geofabric will be laid in place, followed by the filter layer stone and toe stones prior to backfilling. Driving steel sheathing will be used at the sections where material will need to be held back relative to the excavation. The sheathing will be removed after the toe is installed and the revetment area has been smoothed out and prepped. A second crew will lag behind by a section or two, and will install the above grade section of the revetment. The placement of the stone can be done with either a long reach excavator or a small crane. This will be variable based on the contractor selection and their preferred or available equipment.

- Sediment Delivery: Sediment will be transported via dump truck from one or more local contractor's pit(s) off Milestone Road to the delivery location on Baxter Road (see following paragraph), where it will be dumped into a hopper, then transported via conveyor belts to the edge of the coastal bank. The conveyor belts at the top of the bank will dump into a chute (made of 3-foot diameter ADS drainage pipe) for transport down to the lower bank (see Figure 1). The chutes will be positioned a foot or two above the face of the coastal bank using bracing made of pressure-treated wood to protect bank vegetation. These chutes are light enough to be quickly installed and removed during seasonal sediment delivery. Sediment will then be positioned by a front-end loader or skid steer.

Five sediment delivery locations will be established along the side of Baxter Road, as shown on Figure 1. Temporary structural turf pull-over areas will be installed at four of these locations; no structural turf is required at the northernmost delivery location near 119 Baxter Road due to the large paved area already present.

In the instance of successive storms, sand will be delivered via ADS pipe from above until there is sufficient material at the northern end of the structure for a skid steer to ramp up to the platform at the top of the revetment. This way the skid steers can access other areas of the revetment to disperse sand as required.

- Demobilization: Upon completion of phase one and two, the landing barge will be removed from the nearshore by tugs pulling it off at high tide. The equipment used for the construction will be aboard the landing barge upon departure.

PUBLIC QUESTIONS/COMMENTS

MEPA should be asked if they have jurisdiction over the Project.

MEPA jurisdiction over projects is defined in the MEPA regulations review thresholds at 301 CMR 11.03. For projects subject to wetlands review, the project trigger is the requirement for a state permit (Superseding Order of Conditions) and that certain thresholds are exceeded. Any alteration of coastal bank triggers MEPA review if a Superseding Order of Conditions is required. Thus, if a local Order of Conditions is appealed to DEP, the applicant would be required to file an Environmental Notification Form (ENF) with MEPA.

The other potential MEPA trigger is for the category of State-listed Species under MGL 131A (Massachusetts Endangered Species Act). Since the project has decided to not include work on lots south of 63 Baxter Road, there will be no work in either Priority Habitats for State-Protected Species or Estimated Habitats for Rare Wildlife (see Figure 9 in Attachment B of the NOI).

Owners need to sign the NOI application.

All participating property owners from 63-119 Baxter Road have signed the NOI application, other than the property owner at 71 Baxter Road who has elected not to participate in the project. The revetment at 71 Baxter Road will be installed on Town property; that part of the proposed vegetation on the upper bank which is on private property will not be installed.

The Third Party consultant is not looking at the effects of the rocks on littoral drift. What happens if you lose the barrier beach in front of Sesachacha Pond? This area is Piping plover habitat. If you cause erosion, it affects their habitat.

Sand will be added in front of the revetment and downdrift of the revetment to mitigate for the sand that would otherwise have been supplied by the coastal bank without the revetment. This sand will be carried by littoral drift to the north at a rate that will be similar to the current rate. Shoreline monitoring transects which extend in front of Sesachacha Pond and northward to Quidnet, Squam and Wauwinet (see Figure 10, Attachment B in the NOI) will be monitored and compared to control locations to determine if the project is causing accelerated erosion; if necessary, mitigation will be provided. If the revetment is causing acceleration of shoreline erosion downdrift of the structure, immediately adjacent areas would experience that erosion first before it would be experienced much farther downdrift at Sesachacha Pond or even farther north at Quidnet, Squam or Wauwinet. Densely-spaced shoreline monitoring transects immediately downdrift and adjacent to the revetment would measure any accelerated erosion due to the revetment, allowing mitigation

to be provided before any acceleration of shoreline erosion would be apparent as far north as Sesachahca Pond, Quidnet, Squam, or Wauwinet.



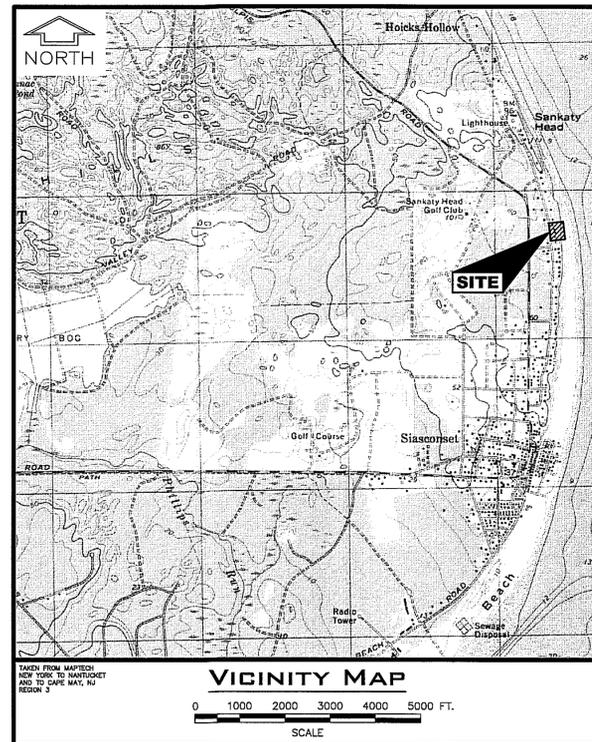
Baxter Road and Sconset Bluff Storm Damage Prevention Project Nantucket, MA

Figure 1
Sediment Delivery Locations

SCONSET BEACH PRESERVATION FUND

SCONSET BLUFF EROSION CONTROL PROJECT NOTICE OF INTENT

DRAWING LIST



<u>DWG. NO.</u>	<u>TITLE</u>	<u>REV. NO.</u>
210019.1-3-01	COVER SHEET AND DRAWING LIST	1
210019.1-3-02	EXISTING SITE PLAN - SHEET 1 OF 4	1
210019.1-3-03	EXISTING SITE PLAN - SHEET 2 OF 4	1
210019.1-3-04	EXISTING SITE PLAN - SHEET 3 OF 4	1
210019.1-3-05	EXISTING SITE PLAN - SHEET 4 OF 4	1
210019.1-3-06	PROPOSED SITE PLAN - SHEET 1 OF 4	1
210019.1-3-07	PROPOSED SITE PLAN - SHEET 2 OF 4	1
210019.1-3-08	PROPOSED SITE PLAN - SHEET 3 OF 4	1
210019.1-3-09	PROPOSED SITE PLAN - SHEET 4 OF 4	1
210019.1-3-10	PROPOSED SECTION A-A AT LOT 115	0
210019.1-3-11	PROPOSED SECTION B-B AT LOT 107	0
210019.1-3-12	PROPOSED SECTION C-C AT LOT 97	1
210019.1-3-13	PROPOSED SECTION D-D AT LOT 87	0
210019.1-3-14	PROPOSED SECTION E-E AT LOT 83	1
210019.1-3-15	PROPOSED SECTION F-F AT LOT 79	0
210019.1-3-16	PROPOSED SECTION G-G AT LOT 65	1

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**SCONSET BEACH
PRESERVATION FUND**

18 Sesapana Road, Nantucket, MA 02554



DESIGNED BY:
ADKA
DRAWN BY:
CAMA
CHECKED BY:
AZSL
QC REVIEW:
BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

COVER SHEET AND DRAWING LIST

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DATE
6/28/13

REVISION
1

DRAWING NO.
210019.1-3-01



ATLANTIC OCEAN

APPROX. M.L.W.
EL. 0.0'

LAND UNDER
THE OCEAN

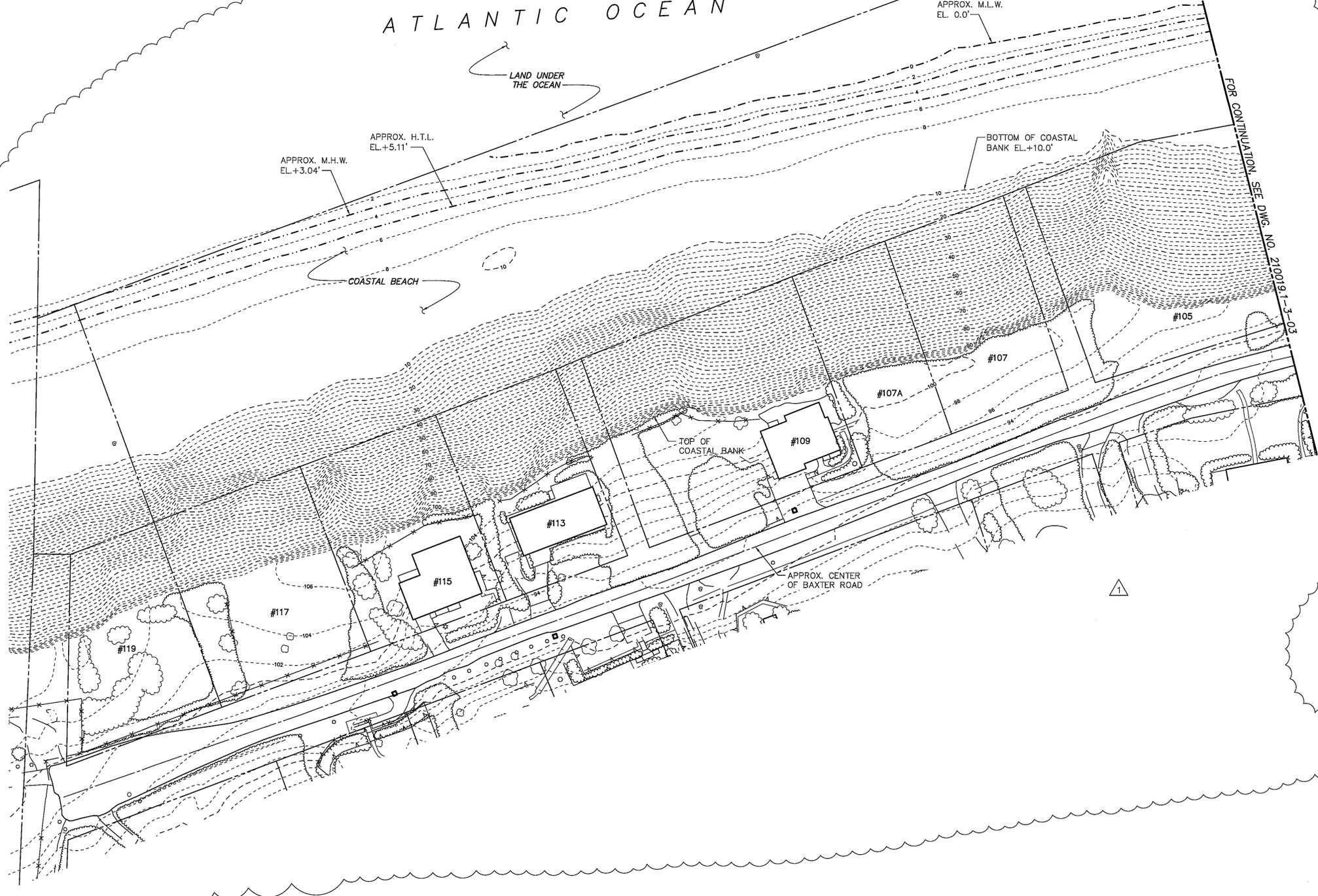
APPROX. M.H.W.
EL. +3.04'

APPROX. H.T.L.
EL. +5.11'

BOTTOM OF COASTAL
BANK EL. +10.0'

COASTAL BEACH

FOR CONTINUATION SEE DWG. NO. 210019.1-3-02



GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. CONTOURS SHOWN IN 2 FOOT INTERVALS.
3. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN TAKEN FROM A LIDAR SURVEY PROVIDED BY COL-EAST AND BLACKWELL & ASSOCIATES, INC. PERFORMED ON JULY 15, 2013 AND CAN ONLY REFLECT CONDITIONS AS THEY EXISTED AT THE TIME OF THE SURVEY.

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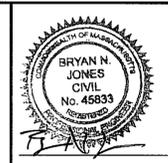
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P:\2010\OCC_210019.1-3-02.dwg Carrie L. Walter Wed, 14 Aug 2013 12:35pm

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**SCONSET BEACH
PRESERVATION FUND**
 18 Sesapana Road, Nantucket, MA 02554



DESIGNED BY: ADKA
 DRAWN BY: CAMA
 CHECKED BY: AZSL
 QC REVIEW: BRJO

**SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT**

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EXISTING SITE PLAN - SHEET 1 OF 4

DRAWING NO. 210019.1-3-02



ATLANTIC OCEAN

LAND UNDER THE OCEAN

APPROX. H.T.L.
EL. +5.11'
APPROX. M.H.W.
EL. +3.04'
APPROX. M.L.W.
EL. 0.0'

COASTAL BEACH

BOTTOM OF COASTAL BANK
EL. +10.0'

TOP OF COASTAL BANK

APPROX. CENTER OF BAXTER ROAD

WETLANDS

BAXTER ROAD

BAXTER ROAD

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FOR CONTINUATION, SEE DWG. NO. 210019.1-3-02

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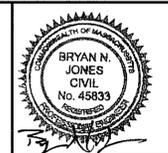
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SCONSET BEACH PRESERVATION FUND
18 Sesapana Road, Nantucket, MA 02554



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DRAWN BY: CAMA
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EXISTING SITE PLAN - SHEET 2 OF 4

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ATLANTIC OCEAN



LAND UNDER THE OCEAN

APPROX. M.L.W. EL. 0.0'

APPROX. M.H.W. EL. +3.04'

APPROX. H.T.L. EL. +5.11'

COASTAL BEACH

BOTTOM OF COASTAL BANK EL. +10.0'

TOP OF COASTAL BANK

BAXTER ROAD

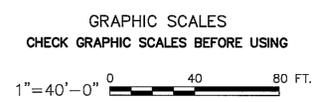
APPROX. CENTER OF BAXTER ROAD

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FOR CONTINUATION, SEE DWG. NO. 210019.1-3-05

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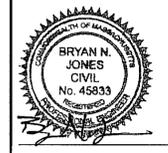
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SCONSET BEACH PRESERVATION FUND

18 Sesapana Road, Nantucket, MA 02554



DESIGNED BY: ADKA
DRAWN BY: CAMA
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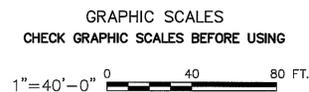
ATLANTIC OCEAN



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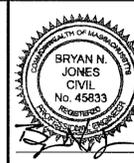
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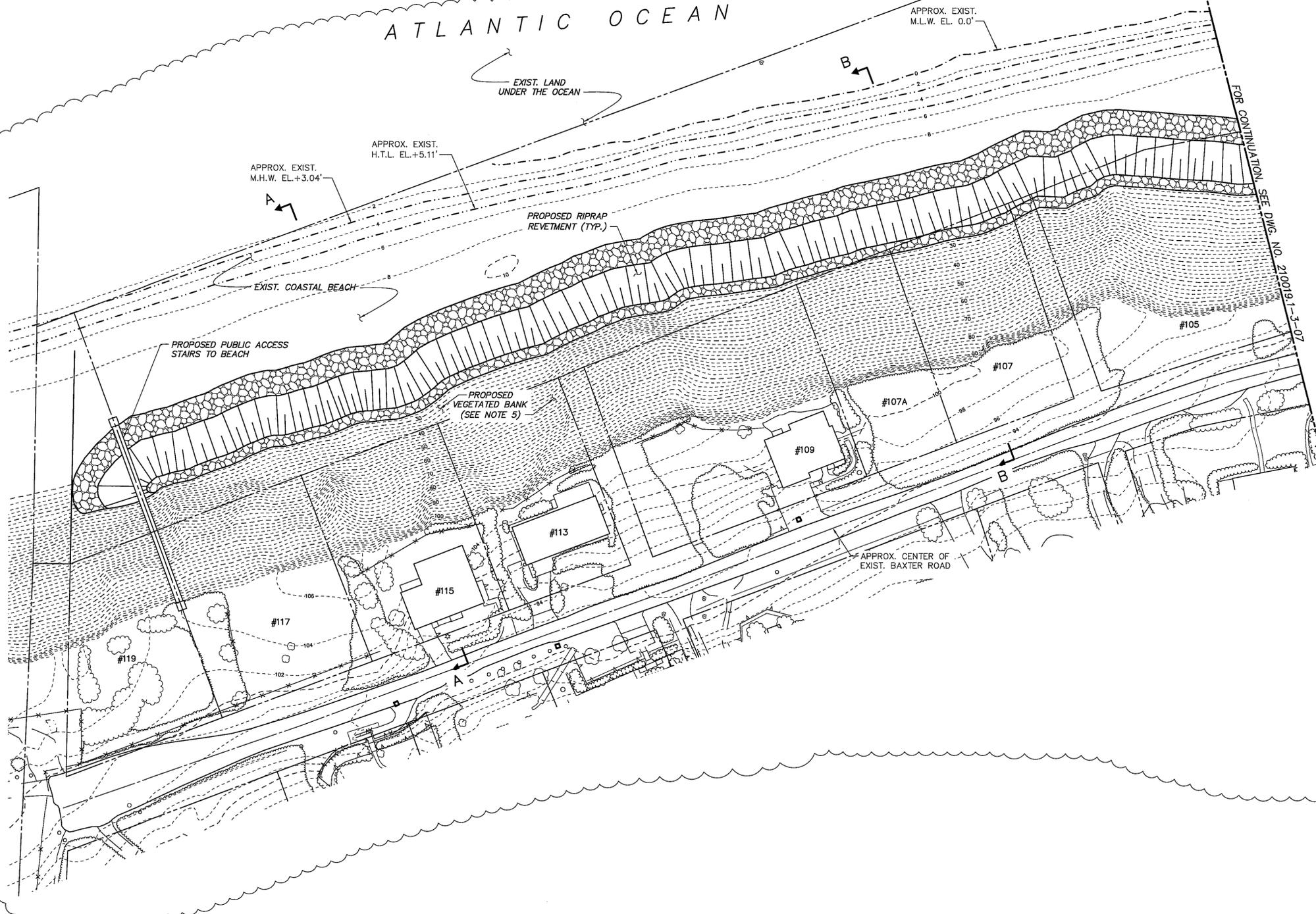
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EXISTING SITE PLAN - SHEET 4 OF 4

DRAWING NO.
210019.1-3-05



ATLANTIC OCEAN



FOR CONTINUATION SEE DWG. NO. 210019.1-3-07

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4. SACRIFICIAL SAND COVER OVER THE REVETMENT NOT SHOWN FOR CLARITY. SEE PROPOSED SECTION A-A ON DWG. NO. 210019.1-3-10 AND PROPOSED SECTION B-B ON DWG. NO. 210019.1-3-11.
5. LIMITS OF THE PROPOSED RE-VEGETATION NOT SHOWN FOR CLARITY. REFER TO SECTION DRAWINGS ON DWG. NOS. 210019.1-3-10 THRU 16 FOR THE EXTENTS OF PROPOSED RE-VEGETATION.

GRAPHIC SCALES

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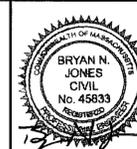
P:\2010\OCC_210019.1-3-06.dwg Corrie L. Walter Wed, 14 Aug 2013 - 1:33pm

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DESIGNED BY: ADKA
 DRAWN BY: CAMA
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 QC REVIEW: BRJO

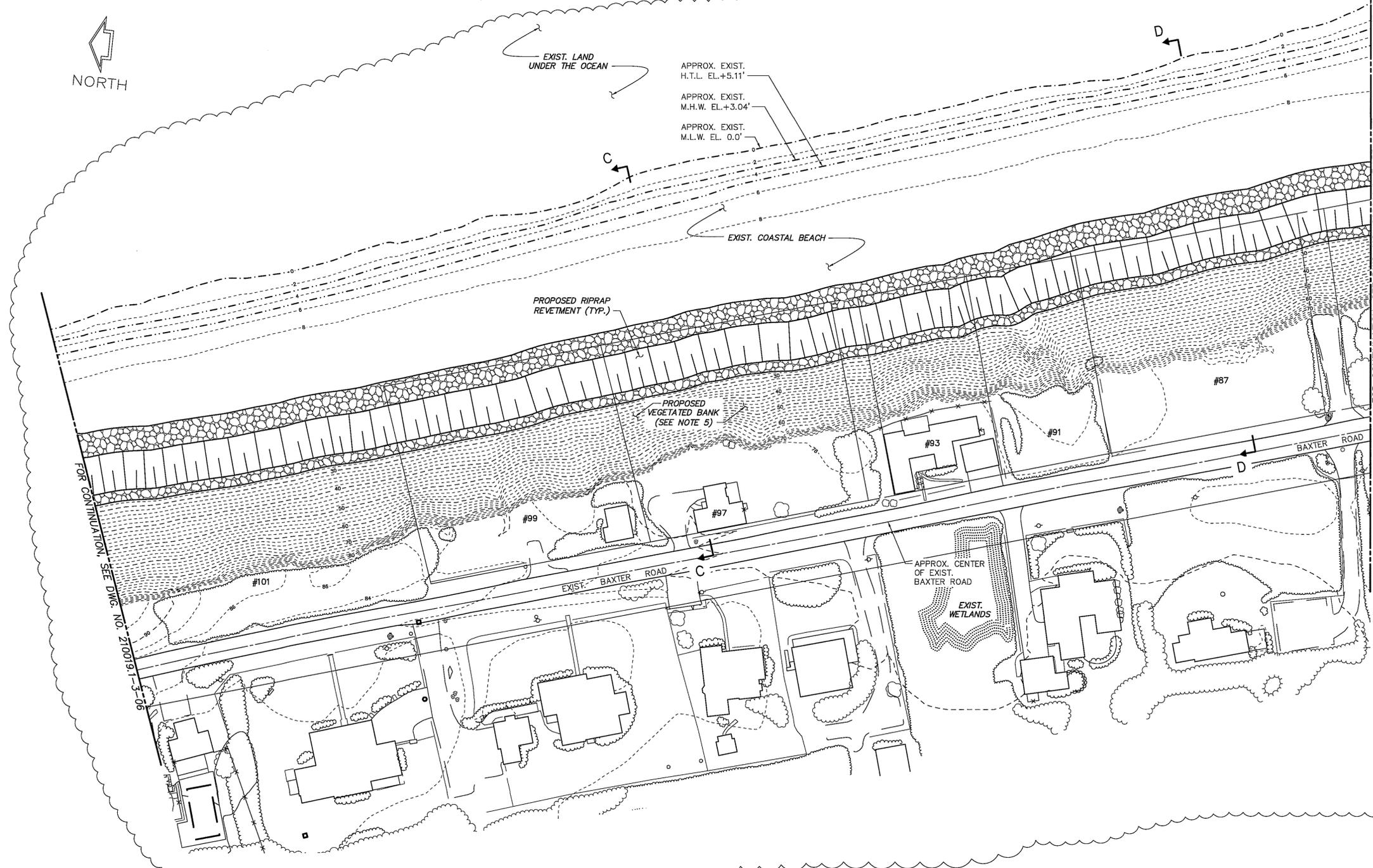
**SCONSET BLUFF EROSION CONTROL PROJECT
 NOTICE OF INTENT**

SCALE AS NOTED	REVISION
DATE 6/26/13	1

PROPOSED SITE PLAN - SHEET 1 OF 4

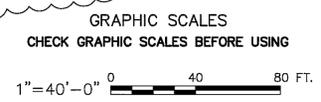
DRAWING NO. **210019.1-3-06**

ATLANTIC OCEAN



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3. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN TAKEN FROM A LIDAR SURVEY PROVIDED BY COL-EAST AND BLACKWELL & ASSOCIATES, INC. PERFORMED ON JULY 15, 2013 AND CAN ONLY REFLECT CONDITIONS AS THEY EXISTED AT THE TIME OF THE SURVEY.
4. SACRIFICIAL SAND COVER OVER THE REVETMENT NOT SHOWN FOR CLARITY. SEE PROPOSED SECTION C-C ON DWG. NO. 210019.1-3-12 AND PROPOSED SECTION D-D ON DWG. NO. 210019.1-3-13.
5. LIMITS OF THE PROPOSED RE-VEGETATION NOT SHOWN FOR CLARITY. REFER TO SECTION DRAWINGS ON DWG. NOS. 210019.1-3-10 THRU 16 FOR THE EXTENTS OF PROPOSED RE-VEGETATION.



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P:\2010\ccc_210019.1-3-06.dwg 3/16/13 11:33am Wed, 14 Aug 2013 - 11:33am

REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1	REVISED TOPOGRAPHIC SURVEY INFORMATION	8/14/13	BRJO			

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SCONSET BEACH PRESERVATION FUND

18 Sesapana Road, Nantucket, MA 02554



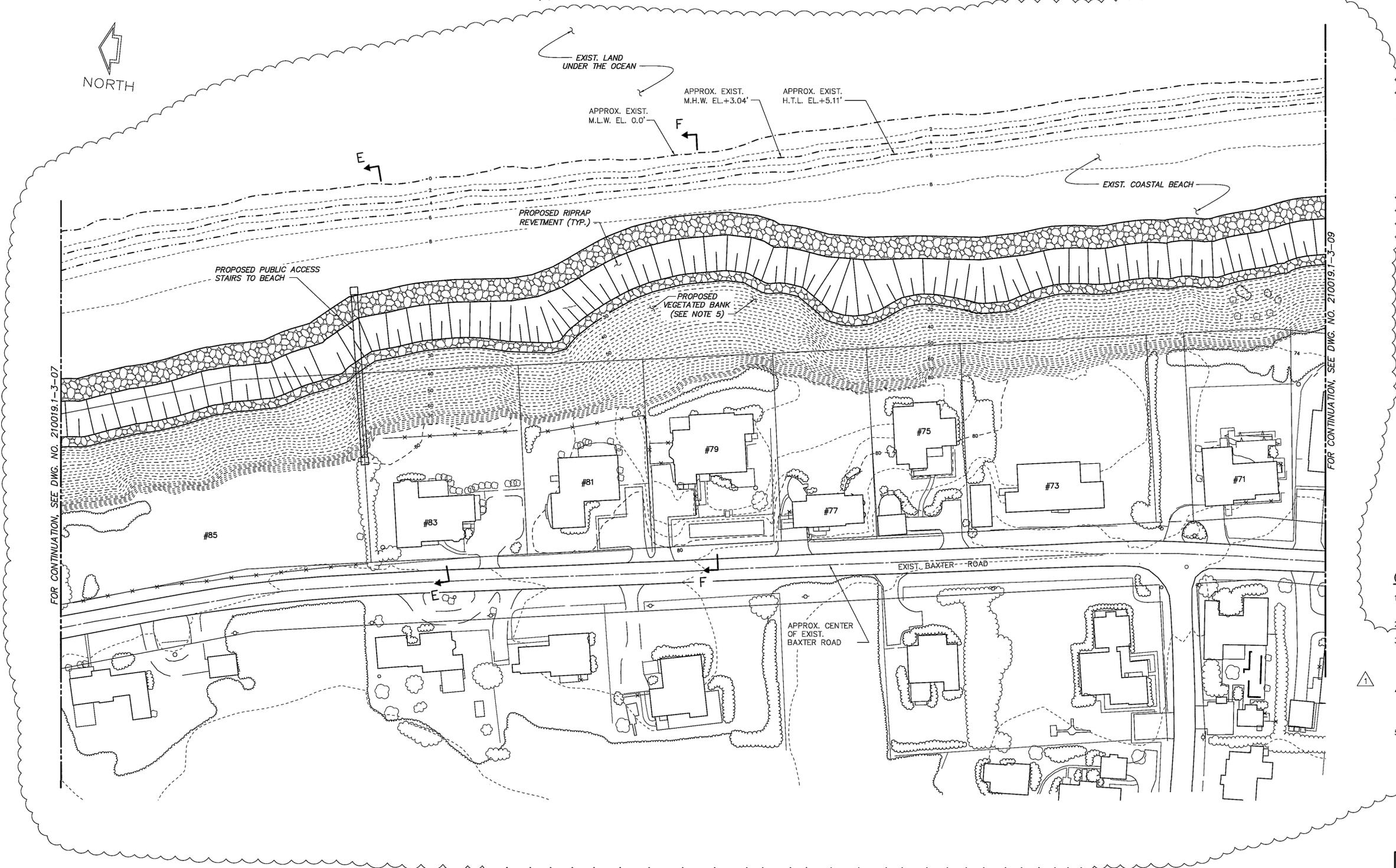
DESIGNED BY:	ADKA
DRAWN BY:	CAMA
CHECKED BY:	AZSL
QC REVIEW:	BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

PROPOSED SITE PLAN - SHEET 2 OF 4

SCALE AS NOTED	REVISION
DATE 6/28/13	1
DRAWING NO. 210019.1-3-07	

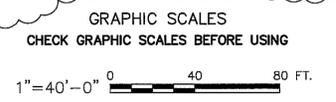
ATLANTIC OCEAN



FOR CONTINUATION, SEE DWG. NO. 210019.1-3-07

FOR CONTINUATION, SEE DWG. NO. 210019.1-3-08

- GENERAL NOTES**
- ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
 - CONTOURS SHOWN IN 2 FOOT INTERVALS.
 - EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN TAKEN FROM A LIDAR SURVEY PROVIDED BY COL-EAST AND BLACKWELL & ASSOCIATES, INC. PERFORMED ON JULY 15, 2013 AND CAN ONLY REFLECT CONDITIONS AS THEY EXISTED AT THE TIME OF THE SURVEY.
 - SACRIFICIAL SAND COVER OVER THE REVETMENT NOT SHOWN FOR CLARITY. SEE PROPOSED SECTION E-E ON DWG. NO. 210019.1-3-14 AND PROPOSED SECTION F-F ON DWG. NO. 210019.1-3-15.
 - LIMITS OF THE PROPOSED RE-VEGETATION NOT SHOWN FOR CLARITY. REFER TO SECTION DRAWINGS ON DWG. NOS. 210019.1-3-10 THRU 16 FOR THE EXTENTS OF PROPOSED RE-VEGETATION.



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REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1	REVISED TOPOGRAPHIC SURVEY INFORMATION	8/14/13	BRJO			

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SCONSET BEACH PRESERVATION FUND
18 Sesapana Road, Nantucket, MA 02554



DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

SCALE AS NOTED
DATE 6/28/13
REVISION 1

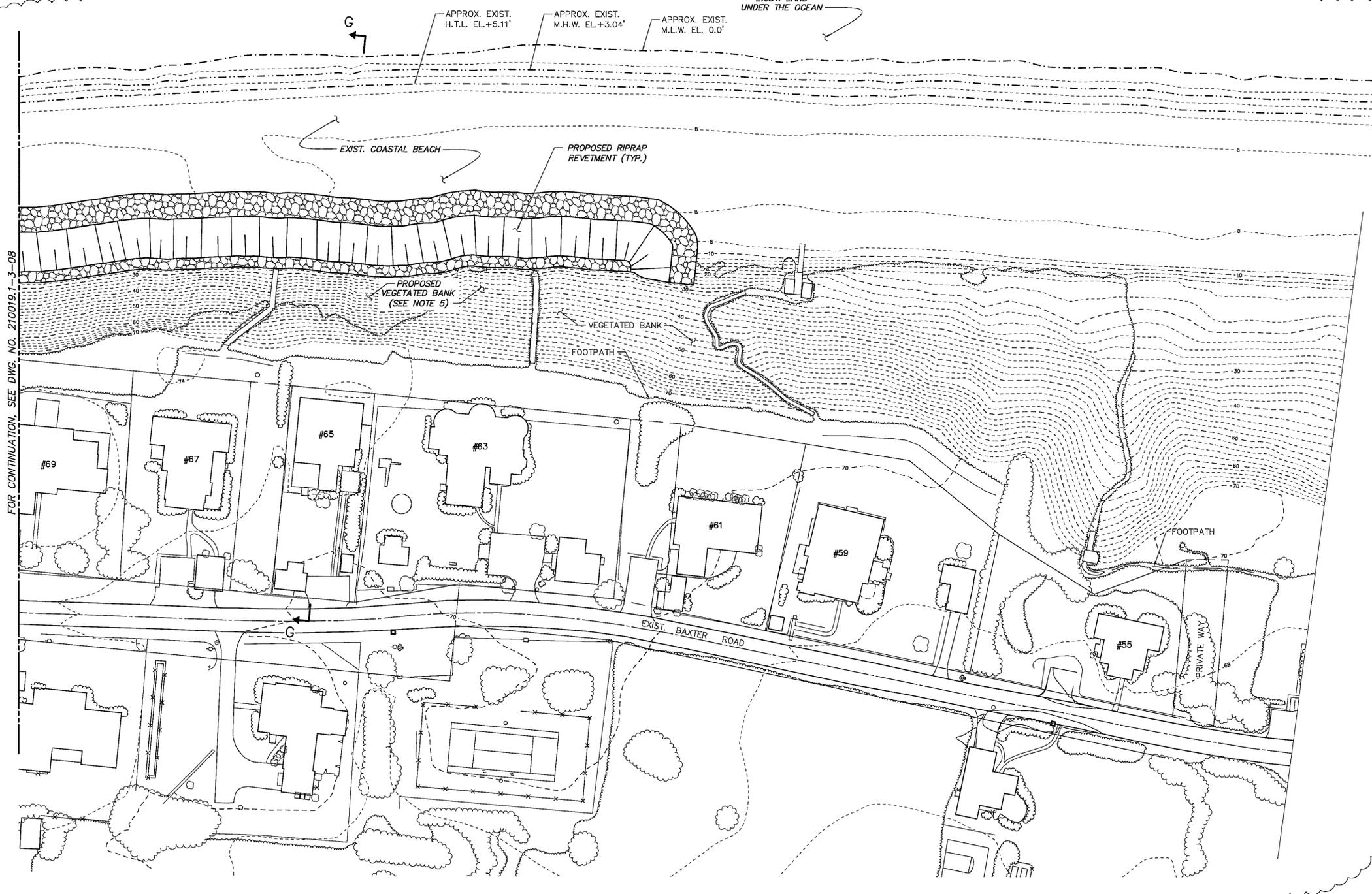
PROPOSED SITE PLAN - SHEET 3 OF 4

DRAWING NO. 210019.1-3-08

P:\2010\ccc_210019.1-3-08.dwg Carrie L. Walker Wed, 14 Aug 2013 11:34pm



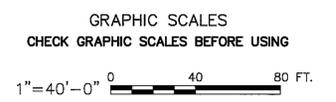
ATLANTIC OCEAN



FOR CONTINUATION, SEE DWG. NO. 210019.1-3-08

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. CONTOURS SHOWN IN 2 FOOT INTERVALS.
3. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN TAKEN FROM A LIDAR SURVEY PROVIDED BY COL-EAST AND BLACKWELL & ASSOCIATES, INC. PERFORMED ON JULY 15, 2013 AND CAN ONLY REFLECT CONDITIONS AS THEY EXISTED AT THE TIME OF THE SURVEY.
4. SACRIFICIAL SAND COVER OVER THE REVETMENT NOT SHOWN FOR CLARITY. SEE PROPOSED SECTION G-G ON DWG. NO. 210019.1-3-16.
5. LIMITS OF THE PROPOSED RE-VEGETATION NOT SHOWN FOR CLARITY. REFER TO SECTION DRAWINGS ON DWG. NOS. 210019.1-3-10 THRU 16 FOR THE EXTENTS OF PROPOSED RE-VEGETATION.



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P:\2010\ccc_210019.1-3-08\Project_Files\CAD\Task_3\06.dwg Dwg 06 Carrie L. Walter Wed, 14 Aug 2013 - 1:34pm

REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1	REVISED TOPOGRAPHIC SURVEY INFORMATION	8/14/13	BRJO			

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SCONSET BEACH PRESERVATION FUND

18 Sesapana Road, Nantucket, MA 02554

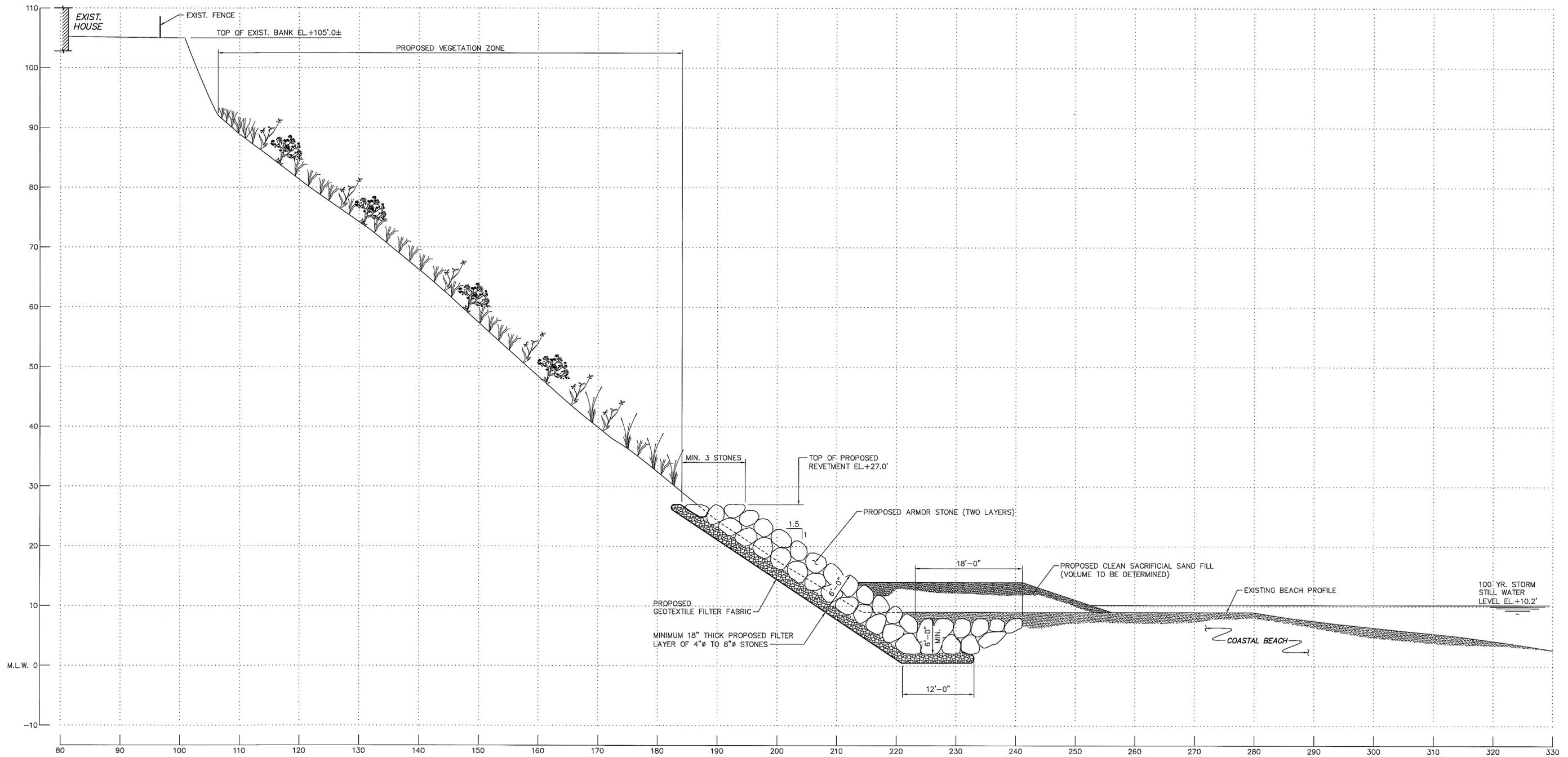


DESIGNED BY:	ADKA
DRAWN BY:	CAMA
CHECKED BY:	AZSL
QC REVIEW:	BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

PROPOSED SITE PLAN - SHEET 4 OF 4

SCALE AS NOTED	REVISION
DATE	1
6/28/13	
DRAWING NO.	
210019.1-3-09	



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

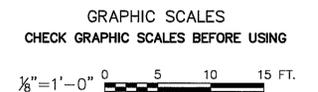
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. FILTER LAYER BEDDING STONE SHALL BE 4 TO 8 INCH DIAMETER NOMINAL CRUSHED STONE.
3. RIPRAP ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT PASSING	ARMOR STONE (LBS)	NOMINAL DIMENSION (FT)
W ₅₀₀	500	1.5
W ₁₅₀₀	1,500	2.0
W ₃₈₅₀	3,850	3.0
W ₇₅₀₀	7,500	3.5
W ₁₀₀₀₀	15,400	4.5
4. ARMOR STONE SHALL HAVE A MINIMUM SIZE OF 18 INCHES MEASURING THE LEAST DIMENSION ACROSS ITS MIDSECTION.
5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 24 INCHES.
6. STONES SHALL BE PLACED IN A MANNER TO PRODUCE A WELL GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION A-A, SEE DWG. NO. 210019.1-3-06.



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P:\2010\ccc_210019.1-3-06\Project_Files\CAD\Task-3\0.dwg Dwg 10 Carrie L. Walker Wed, 14 Aug 2013 - 12:48pm

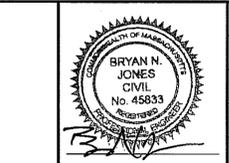
REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

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SCONSET BEACH PRESERVATION FUND

18 Sesapana Road, Nantucket, MA 02554

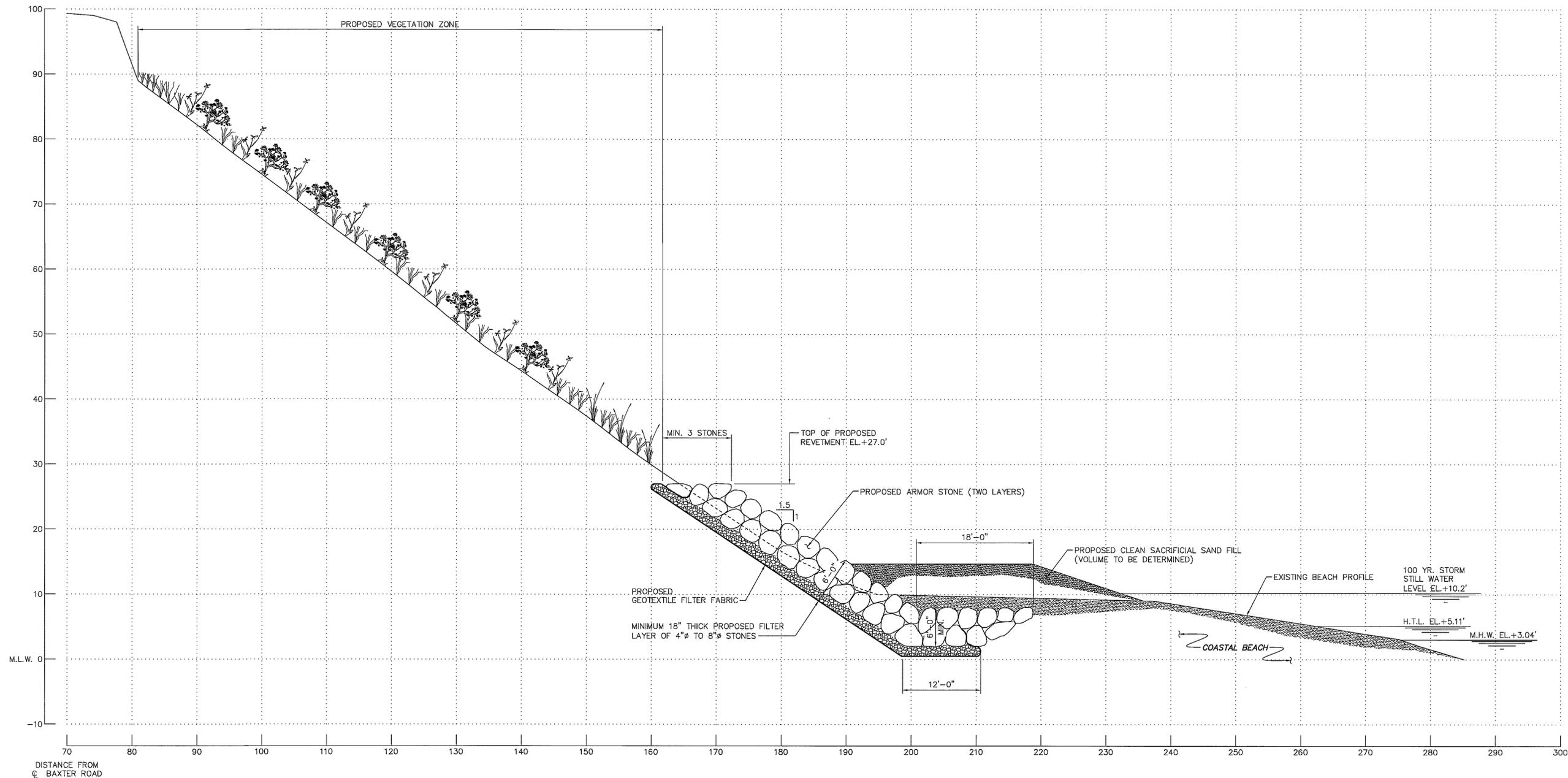


DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

PROPOSED SECTION A-A AT LOT 115

SCALE 1/8"=1'-0"	REVISION 0
DATE 8/11/13	DRAWING NO. 210019.1-3-10



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

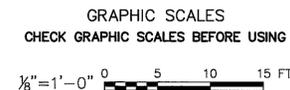
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. FILTER LAYER BEDDING STONE SHALL BE 4 TO 8 INCH DIAMETER NOMINAL CRUSHED STONE.
3. RIPRAP ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT PASSING	ARMOR STONE (LBS)	NOMINAL DIMENSION (FT)
W ₅₀₀	500	1.5
W ₁₅₀	1,500	2.0
W ₅₀	3,850	3.0
W ₂₅	7,500	3.5
W ₁₀₀	15,400	4.5
4. ARMOR STONE SHALL HAVE A MINIMUM SIZE OF 18 INCHES MEASURING THE LEAST DIMENSION ACROSS ITS MIDSECTION.
5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 24 INCHES.
6. STONES SHALL BE PLACED IN A MANNER TO PRODUCE A WELL GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION B-B, SEE DWG. NO. 210019.1-3-06.



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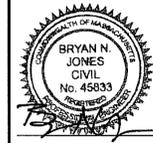
P:\2010\ccc_210019.1\Project_Files\CAD\Task_3\10.dwg Dwg 11 Carrie L. Water Wed, 14 Aug 2013 12:48pm

REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

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SCONSET BEACH PRESERVATION FUND
18 Sesapana Road, Nantucket, MA 02554

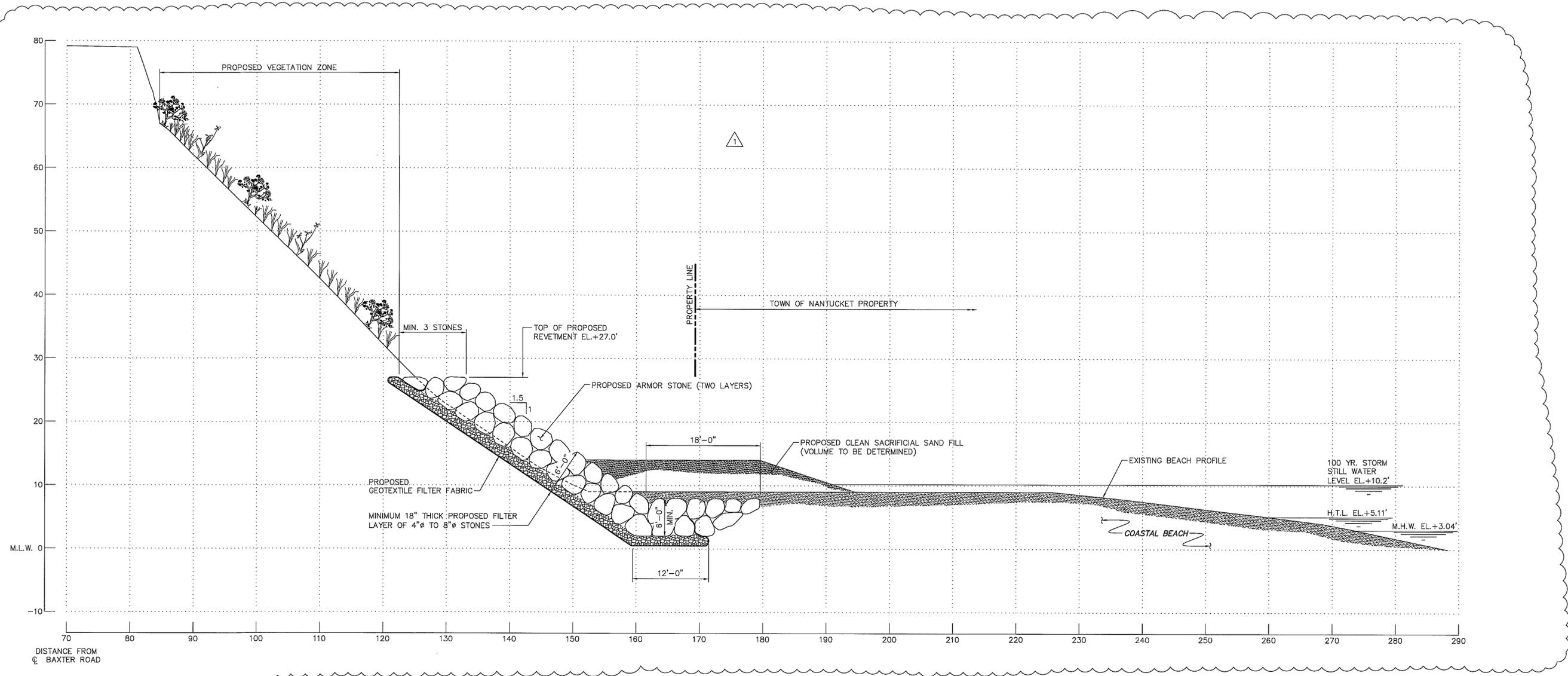


DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

PROPOSED SECTION B-B AT LOT 107

SCALE 1/8"=1'-0"	REVISION 0
DATE 8/11/13	DRAWING NO. 210019.1-3-11



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

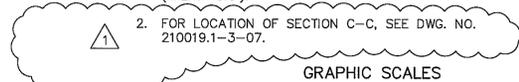
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. FILTER LAYER BEDDING STONE SHALL BE 4 TO 8 INCH DIAMETER NOMINAL CRUSHED STONE.
3. RIPRAP ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT PASSING	ARMOR STONE (LBS)	NOMINAL DIMENSION (FT)
W ₅₀₀	500	1.5
W ₁₅₀	1,500	2.0
W ₅₀	3,850	3.0
W ₂₅	7,500	3.5
W ₁₀₀	15,400	4.5
4. ARMOR STONE SHALL HAVE A MINIMUM SIZE OF 18 INCHES MEASURING THE LEAST DIMENSION ACROSS ITS MIDSECTION.
5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 24 INCHES.
6. STONES SHALL BE PLACED IN A MANNER TO PRODUCE A WELL GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION C-C, SEE DWG. NO. 210019.1-3-07.



GRAPHIC SCALES
CHECK GRAPHIC SCALES BEFORE USING

1/8"=1'-0" 0 5 10 15 FT.

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REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1	REVISED SECTION	8/14/13	BRJO			

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SCONSET BEACH PRESERVATION FUND
 18 Sesapana Road, Nantucket, MA 02554

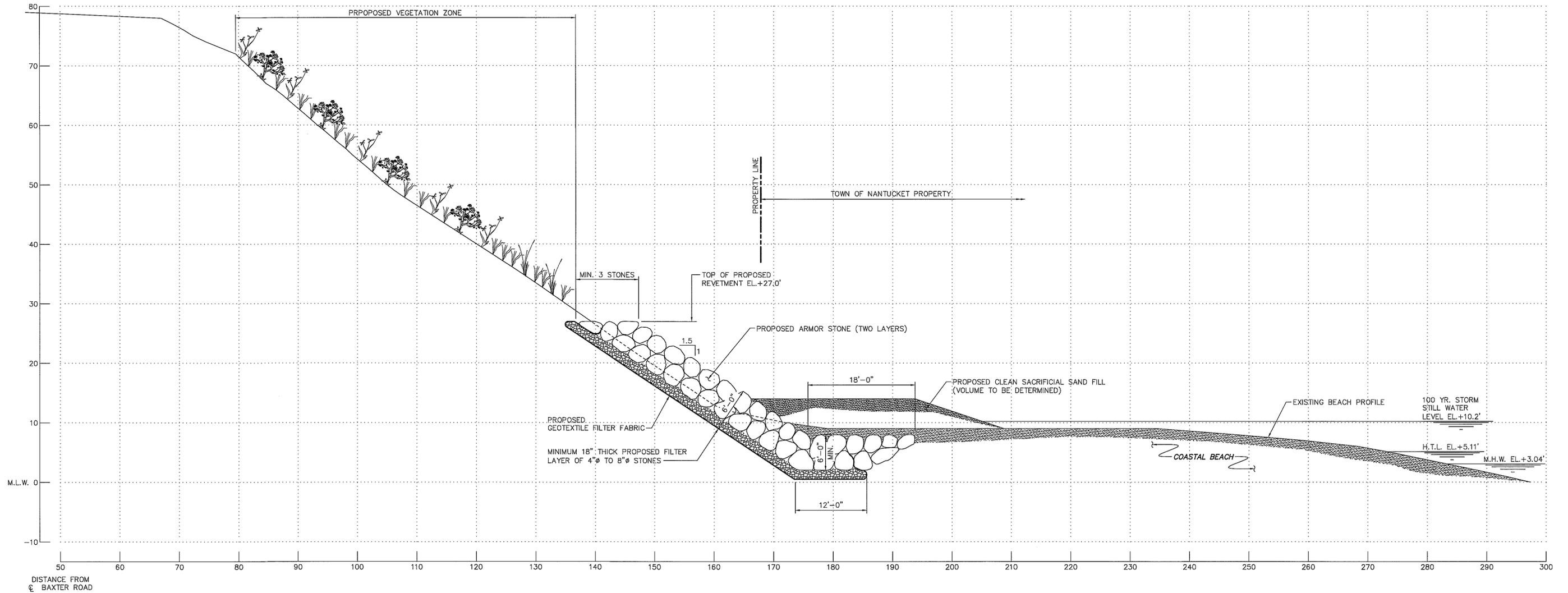


DESIGNED BY: ADKA
 DRAWN BY: CAMA
 CHECKED BY: AZSL
 QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
 NOTICE OF INTENT

PROPOSED SECTION C-C AT LOT 97

SCALE 1/8"=1'-0"	REVISION 1
DATE 6/28/13	DRAWING NO. 210019.1-3-12



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

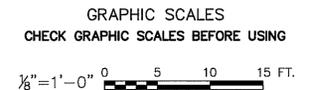
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. FILTER LAYER BEDDING STONE SHALL BE 4 TO 8 INCH DIAMETER NOMINAL CRUSHED STONE.
3. RIPRAP ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT PASSING	ARMOR STONE (LBS)	NOMINAL DIMENSION (FT)
W ₅₀₀	500	1.5
W ₁₅₀₀	1,500	2.0
W ₃₈₅₀	3,850	3.0
W ₇₅₀₀	7,500	3.5
W ₁₀₀₀₀	15,400	4.5
4. ARMOR STONE SHALL HAVE A MINIMUM SIZE OF 18 INCHES MEASURING THE LEAST DIMENSION ACROSS ITS MIDSECTION.
5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 24 INCHES.
6. STONES SHALL BE PLACED IN A MANNER TO PRODUCE A WELL GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION D-D, SEE DWG. NO. 210019.1-3-07.



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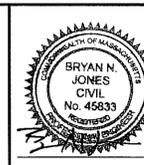
P:\2010\0cc_210019.1-3\Project_Files\CAD\Task_3\10.dwg Dwg 13 Carrie L. Water Wed, 14 Aug 2013 12:52pm

REVISIONS	DESCRIPTION	DATE	BY

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SCONSET BEACH PRESERVATION FUND
18 Sesapana Road, Nantucket, MA 02554

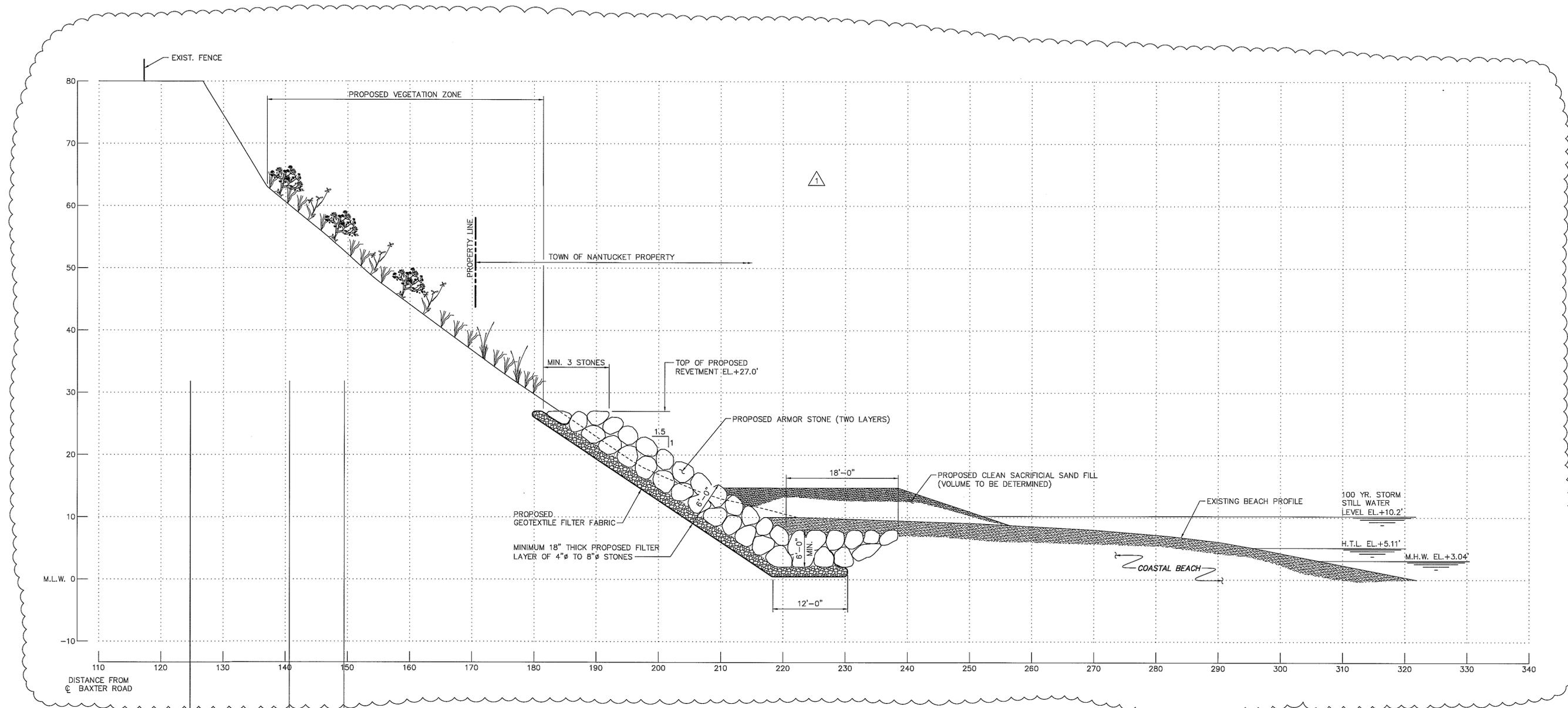


DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

PROPOSED SECTION D-D AT LOT 87

SCALE 1/8"=1'-0"	REVISION 0
DATE 8/11/13	DRAWING NO. 210019.1-3-13



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

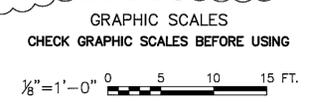
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. FILTER LAYER BEDDING STONE SHALL BE 4 TO 8 INCH DIAMETER NOMINAL CRUSHED STONE.
3. RIPRAP ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT PASSING	ARMOR STONE (LBS)	NOMINAL DIMENSION (FT)
W ₅₀₀	500	1.5
W ₁₅	1,500	2.0
W ₅₀	3,850	3.0
W ₈₅	7,500	3.5
W ₁₀₀	15,400	4.5
4. ARMOR STONE SHALL HAVE A MINIMUM SIZE OF 18 INCHES MEASURING THE LEAST DIMENSION ACROSS ITS MIDSECTION.
5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 24 INCHES.
6. STONES SHALL BE PLACED IN A MANNER TO PRODUCE A WELL GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION E-E, SEE DWG. NO. 210019.1-3-08.



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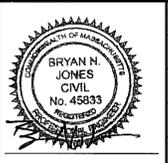
REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1	REVISED SECTION	8/14/13	BRJO			

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SCONSET BEACH PRESERVATION FUND

18 Sesapana Road, Nantucket, MA 02554



DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

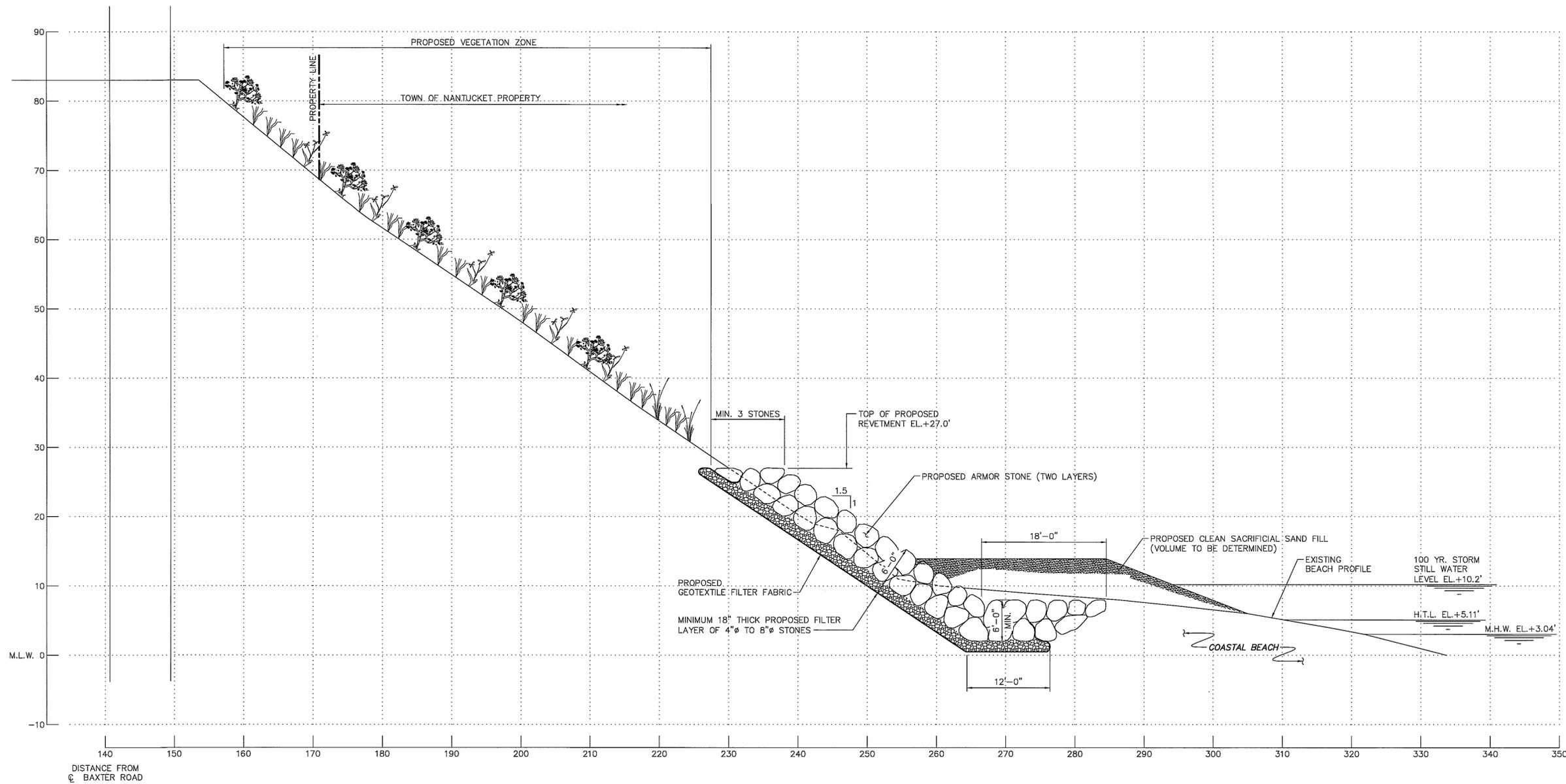
SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

SCALE 1/8"=1'-0"
DATE 6/28/13

PROPOSED SECTION E-E AT LOT 83

REVISION	DRAWING NO.
1	210019.1-3-14

P:\2010\CCC_210019.1\Project_Files\CAD\Task_3\10.dwg Dwg 14 Carrie L. Walker Wed, 14 Aug 2013 - 12:55pm



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

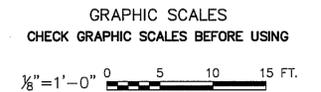
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. FILTER LAYER BEDDING STONE SHALL BE 4 TO 8 INCH DIAMETER NOMINAL CRUSHED STONE.
3. RIPRAP ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT PASSING	ARMOR STONE (LBS)	NOMINAL DIMENSION (FT)
W ₅₀₀	500	1.5
W ₁₅₀₀	1,500	2.0
W ₃₈₅₀	3,850	3.0
W ₇₅₀₀	7,500	3.5
W ₁₅₄₀₀	15,400	4.5
4. ARMOR STONE SHALL HAVE A MINIMUM SIZE OF 18 INCHES MEASURING THE LEAST DIMENSION ACROSS ITS MIDSECTION.
5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 24 INCHES.
6. STONES SHALL BE PLACED IN A MANNER TO PRODUCE A WELL GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION F-F, SEE DWG. NO. 210019.1-3-08.



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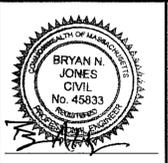
REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

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SCONSET BEACH PRESERVATION FUND

18 Sesapana Road, Nantucket, MA 02554



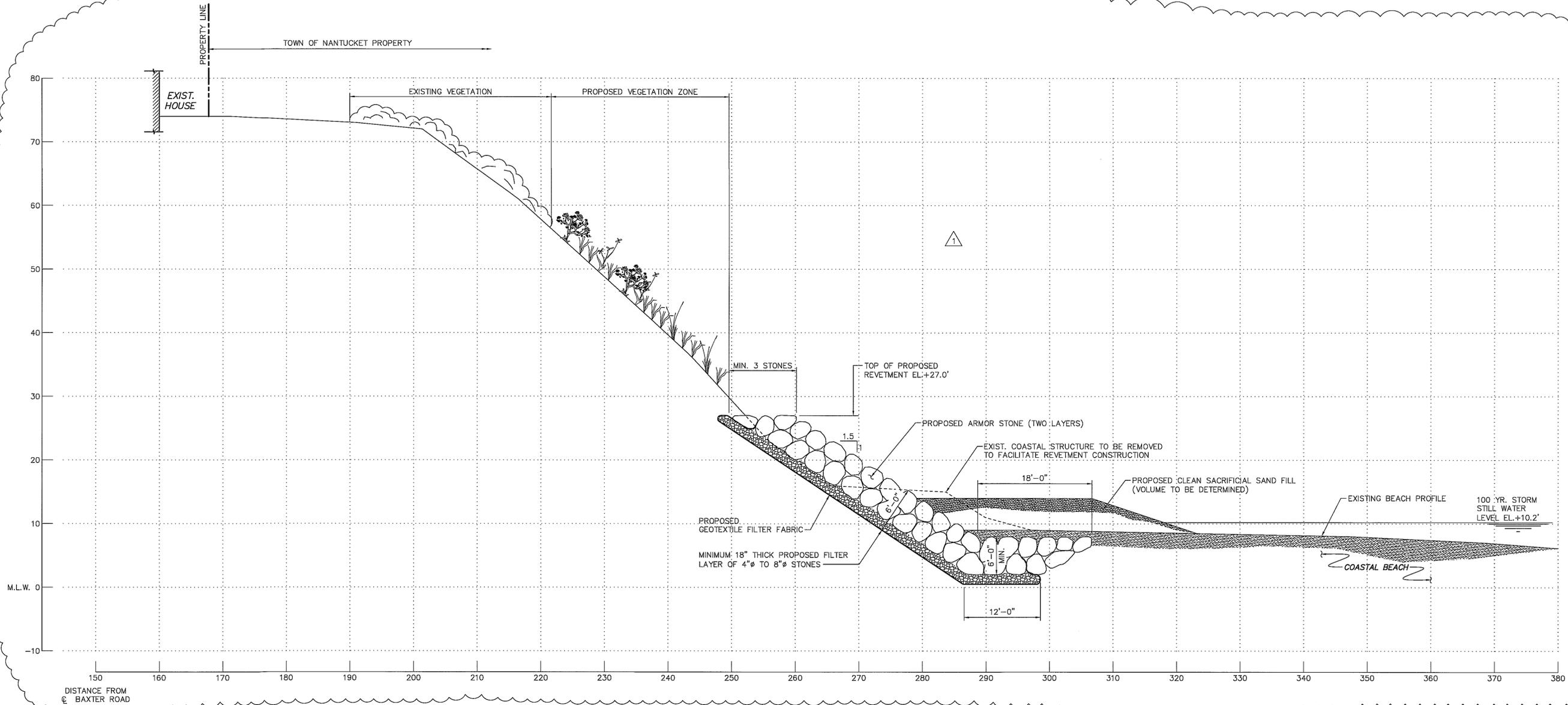
DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

PROPOSED SECTION F-F AT LOT 79

SCALE 1/8"=1'-0"	REVISION 0
DATE 8/11/13	DRAWING NO. 210019.1-3-15

P:\2010\ccc_210019.1-3\Project_Files\CAD\Task_3\10.dwg Dwg 15 Carrie L. Water Wed, 14 Aug 2013 12:53pm



GEOTEXTILE FABRIC

1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW-700 GEOTEXTILE FABRIC OR AN EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
2. INSTALL GEOTEXTILE FABRIC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MINIMUM 12 INCH LAP AT ADJACENT SECTIONS.
3. PROVIDE ADEQUATE SLACK IN FABRIC DURING INSTALLATION BY PROVIDING CONTINUOUS 12 INCH FOLDS AT 15 FOOT CENTERS PARALLEL TO THE SHORELINE.
4. PROPERLY ANCHOR FABRIC TO PREVENT SLIDING OR TEARING DURING INSTALLATION OF OVERBURDEN MATERIAL.

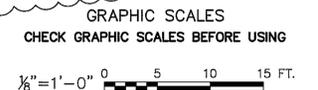
RIPRAP SHORE PROTECTION

1. STONE SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
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5. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AD STONES LESS THAN 24 INCHES.
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GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN LOW WATER DATUM (M.L.W.=0.0').
2. FOR LOCATION OF SECTION G-G, SEE DWG. NO. 210019.1-3-09.



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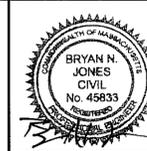
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REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1	REVISED SECTION	6/14/13	BRJO			

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SCONSET BEACH PRESERVATION FUND
18 Sesapana Road, Nantucket, MA 02554



DESIGNED BY: ADKA
DRAWN BY: CAMA
CHECKED BY: AZSL
QC REVIEW: BRJO

SCONSET BLUFF EROSION CONTROL PROJECT
NOTICE OF INTENT

SCALE 1/8"=1'-0"
DATE 6/28/13
REVISION 1

PROPOSED SECTION G-G AT LOT 65

DRAWING NO. 210019.1-3-16