WALNUT & WILDEMERE BEACH
STABILIZATION PROJECT
MILFORD, CONNECTICUT

SCHEDULE OF DRAWINGS

1. DUNE AND BEACH NOURISHMENT PLAN
2. DUNE AND BEACH NOURISHMENT PLAN
3. DUNE AND BEACH NOURISHMENT PLAN
4. DUNE AND BEACH NOURISHMENT PLAN
5. DUNE AND BEACH NOURISHMENT PLAN
6. DUNE AND BEACH NOURISHMENT PLAN
7. DUNE AND BEACH NOURISHMENT PLAN
8. DUNE AND BEACH NOURISHMENT PLAN
9. DUNE AND BEACH NOURISHMENT PLAN
10. DUNE AND BEACH NOURISHMENT PLAN
11. WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS
12. WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS
13. WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS
14. WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS
15. WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS
16. STORM DRAIN OUTFALL DETAILS
17. HYDRODYNAMIC SEPARATOR, DIVERSION CHAMBER, AND OUTFALL DETAIL
18. STORM DRAIN DATA TABLE AND OUTFALL DETAILS
19. DUNE PLANTING DETAILS
20. SAND DUNE COIR REINFORCEMENT DETAILS
21. DUNE WALKOVER AND PLANTING DETAILS
22. DUNE CROSS-OVER ANCHORAGE DETAILS
23. EROSION AND SEDIMENT CONTROL DETAILS
24. EROSION AND SEDIMENT CONTROL NOTES

NOTE: THESE PLANS HAVE BEEN DEVELOPED SOLELY FOR THE PURPOSE OF PERMIT REVIEW AND CONTAIN A LEVEL OF DETAIL COMMENSURATE WITH PERMIT REVIEW REQUIREMENTS.
LEGEND:
- TURBIDITY CURTAIN
- SEDIMENT FENCE
- MANHOLE
- COASTAL JURISDICTION LINE +4.7 (CJL)
- HIGH TIDE LINE +4.46 (HTL)
- MEAN HIGH WATER +3.15 (MHW)
- MEAN LOW WATER -3.60 (MLW)
- SAND FENCE
- WETLAND DELINEATION
- PROPERTY LINE

GENERAL NOTES:
1. THESE PLANS ARE INTENDED FOR PERMIT REVIEW AND APPROVAL PURPOSES ONLY. THEY ARE NOT TO BE USED FOR CONSTRUCTION UNTIL ALL FINAL DETAILS AND CONDITIONS OF PERMIT APPROVAL HAVE BEEN INCORPORATED, AND UNTIL THE PLANS ARE ACCOMPANYED BY A SUITABLE SET OF CONTRACT SPECIFICATIONS THAT FURTHER DEFINE THE WORK.
2. ALL UTILITY INFORMATION SHOWN ON THESE PLANS IS APPROXIMATE IN NATURE. UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT DEPICTED ON THESE PLANS, OR WHICH ARE NOT IN THE LOCATIONS SHOWN. THE CONTRACTOR ULTIMATELY SELECTED FOR THIS WORK SHALL PERFORM UTILITY IDENTIFICATION AND LOCATION PRIOR TO CONSTRUCTION USING CALL-BEFORE-U-DIG (CBUD) AND OTHER PRIVATE UTILITY IDENTIFICATION SERVICES TO ENSURE THAT ALL UTILITIES ARE LOCATED.
3. PROPERTY LINE INFORMATION SHOWN HAS BEEN OBTAINED FROM CITY OF MILFORD ASSESSOR RECORDS AND IS CONSIDERED RELEVANT FOR THESE PERMIT LEVEL DRAWINGS.
4. BASE SURVEY PREPARED BY MILONE & MACBROOM, INC. TO T-2 TOPOGRAPHIC STANDARDS, AND A-2 STANDARDS FOR HORIZONTAL LOCATIONS.
5. VERTICAL DATUM ON THESE PLANS IS NAVD88.
OUTFALL CHAMBER/INLET DETAIL
DOT TYPE C-L CATCH BASIN DOUBLE GRATE, TYPE 1

OUTFALL PIPE PROFILE (TYP.)
SEE SHEET 21 FOR DETAILS

OUTFALL PIPE CROSS SECTION (TYP.)
SEE SHEET 21 FOR DETAILS

OUTFALL PIPE PROFILE (TYP.)
SEE SHEET 21 FOR DETAILS

OUTFALL CHAMBER/INLET DETAIL
DOT TYPE C-L CATCH BASIN DOUBLE GRATE, TYPE 1
STORM DRAIN DATA TABLE

<table>
<thead>
<tr>
<th>Outfall Name</th>
<th>Location</th>
<th>Existing Outfall Pipe Size</th>
<th>Proposed Outfall Pipe Size</th>
<th>Approx. Length</th>
<th>Proposed Outfall Invert EL*</th>
<th>Proposed Pipe Material</th>
<th>Hydrodynamic Separator Site and Pipe Inverts</th>
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<tbody>
<tr>
<td>Outfall #1</td>
<td>Hauser St.</td>
<td>36&quot;</td>
<td>36&quot; +/-</td>
<td>160</td>
<td>-1.5</td>
<td>RCP</td>
<td>See Note 3</td>
</tr>
<tr>
<td>Outfall #2</td>
<td>Wildwood Ave.</td>
<td>24&quot;</td>
<td>24&quot; +/-</td>
<td>160</td>
<td>-3.5</td>
<td>RCP</td>
<td>See Note 3</td>
</tr>
<tr>
<td>Outfall #3</td>
<td>Bittersweet Ave.</td>
<td>18&quot;</td>
<td>36&quot; +/-</td>
<td>160</td>
<td>-4.0</td>
<td>RCP</td>
<td>See Note 3</td>
</tr>
<tr>
<td>Outfall #4</td>
<td>Smith Ave.</td>
<td>12&quot;</td>
<td>24&quot; +/-</td>
<td>170</td>
<td>-3.5</td>
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<td>See Note 3</td>
</tr>
<tr>
<td>Outfall #5</td>
<td>Waterbury Ave.</td>
<td>18&quot;</td>
<td>24&quot; +/-</td>
<td>160</td>
<td>-3.0</td>
<td>RCP</td>
<td>See Note 3</td>
</tr>
<tr>
<td>Outfall #6</td>
<td>Bridgewater Ave.</td>
<td>12&quot;</td>
<td>24&quot; +/-</td>
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<td>-3.0</td>
<td>RCP</td>
<td>See Note 3</td>
</tr>
<tr>
<td>Outfall #7</td>
<td>Ann St.</td>
<td>24&quot; + 12&quot;</td>
<td>36&quot; +/-</td>
<td>170</td>
<td>-3.0</td>
<td>RCP</td>
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<tr>
<td>Outfall #8</td>
<td>Stone Ave.</td>
<td>24&quot;</td>
<td>24&quot; +/-</td>
<td>180</td>
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<tr>
<td>Outfall #9</td>
<td>Park Ave.</td>
<td>15&quot;</td>
<td>24&quot; +/-</td>
<td>160</td>
<td>-2.0</td>
<td>RCP</td>
<td>See Note 3</td>
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<tr>
<td>Outfall #10</td>
<td>Neugabriel Ave.</td>
<td>18&quot;</td>
<td>36&quot; +/-</td>
<td>200</td>
<td>-3.5</td>
<td>RCP</td>
<td>See Note 3</td>
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<tr>
<td>Outfall #11</td>
<td>Viscount Dr.</td>
<td>36&quot; x 58&quot; Square</td>
<td>48&quot; +/-</td>
<td>310</td>
<td>-0.6</td>
<td>RCP</td>
<td>See Note 3</td>
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</tbody>
</table>

NOTES:
1. INVERT ELEVATIONS SET AT 1'± ABOVE SEA FLOOR.
2. EXISTING OUTFALL PIPES LESS THAN 24" DIAMETER HAVE BEEN UPGRADED TO 24" DIAMETER MINIMUM FOR CONTRACTIBILITY AND DURABILITY REASONS.
3. SPECIFIC SIZING FOR THE HYDRODYNAMIC SEPARATOR, AS WELL SIZING FOR INLET/OUTLET & BYPASS PIPING TO BE DETERMINED AS PART OF FINAL DESIGN DRAWINGS.

5' DIA. PRECAST CONCRETE MANHOLE DETAILS

CAST IRON FRAME & COVER
PRECAST OR SOLID BLOCK
RISER WIDTH VARIES
RISER HEIGHT VARIES
1/4" CRUSHED STONE BASE
1/4" CRUSHED STONE BASE
6" WALL TYPICAL
1'-6" CRUSHED STONE BASE
1'-1" BASE SLAB
5' DIA. PRECAST CONCRETE MANHOLE DETAILS

STORM DRAIN DATA TABLE
AND OUTFALL DETAILS

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut
City of Milford
Milford, Connecticut

December 2017
Project 1700458
Fig. 18

Attention:
If this scale bar does not measure 1" then drawing is not original scale.

Written by: JM
Drawn by: DE
Approved by: JM
DUNE PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>Abv.</th>
<th>Botanical Name</th>
<th>Common Name</th>
<th>Location</th>
<th>Size</th>
<th>Spacing</th>
<th>Qty</th>
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<tbody>
<tr>
<td>Shrs</td>
<td>Ammophila breviligulata</td>
<td>American Beachgrass</td>
<td>Foredune &amp; backdune</td>
<td>Dormant 1</td>
<td>O.C.</td>
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<tr>
<td></td>
<td>Paniceum amarumum</td>
<td>Indian Grass</td>
<td>Foredune &amp; backdune</td>
<td>2 Plug</td>
<td>O.C.</td>
<td>1</td>
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<tr>
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<td>Panicum virgatum</td>
<td>Switch Grass</td>
<td>Foredune &amp; backdune</td>
<td>2 Plug</td>
<td>O.C.</td>
<td>1</td>
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<tr>
<td></td>
<td>Solidago sempervirens</td>
<td>Beaded Goldenrod</td>
<td>Foredune &amp; backdune</td>
<td>2 Plug</td>
<td>O.C.</td>
<td>1</td>
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<tr>
<td></td>
<td>Lathyrus japonicus var.</td>
<td>Beach Pea</td>
<td>Foredune &amp; backdune</td>
<td>2 Plug</td>
<td>O.C.</td>
<td>1</td>
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<tr>
<td></td>
<td>maritimus</td>
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<td>Pycnanthemum muticum</td>
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<tr>
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<td>Solidago caespitosa</td>
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<td>Distichlis filiformis</td>
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<td></td>
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<td>Solidago cataria</td>
<td>Narrowleaf Goldenrod</td>
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</tbody>
</table>

PLANTING THROUGHOUT DUNE (Ab, Sos, Lj) SUPPLEMENTED WITH RANDOMLY DISTRIBUTED MARITIME SHRUBS (Ms, Pm, Rc, Rv) AND PLUGS (Pa, Pv, Sn)

PLANTING IN ALTERNATING ROWS TO MAXIMIZE PROTECTION.

DEEP, SPACED A MAXIMUM OF 12" ON-CENTER.

INSTALL POSTS IN A REPEATING ZIG-ZAG PATTERN

PLACE ROOT ZONE MIN. 8" BELOW SURFACE AND BACKFILL FIRMLY TO HOLD CULMS IN PLACE.

INSTALL AT 2' O.C. IN STAGGERED ROWS.

1. PLACE DORMANT BEACHGRASS STEMS FROM OCTOBER 15th THROUGH APRIL 15TH.

2. INSTALL POSTS IN A REPEATING ZIG-ZAG PATTERN SO THAT SAND FENCE SECTIONS ARE PLACED AT A 45 DEGREE ANGLE TO THE SHOREFRONT. THIS PATTERN WILL MAXIMIZE SAND ENTRAPMENT ALONG THE BEACHFRONT.

3. SAND WILL TYPICALLY FILL FENCING TO 3/4 OF ITS TOTAL HEIGHT.

4. REPLACE DAMAGED SAND FENCING AND POSTS WITHIN ONE MONTH OF STORM DAMAGE TO MAINTAIN A CONTINUOUS DUNE LINE.

DUNE PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
<th>Size</th>
<th>Qty</th>
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<td>01/16/2019</td>
<td>COR REINFORCEMENT DETAILS ADDED</td>
<td>JM</td>
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<td>11/08/2018</td>
<td>DRAINAGE DUTFALL REVISIONS</td>
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<td>07/26/2018</td>
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<td>PERMIT REVIEW</td>
<td>JM</td>
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DORMANT CULM PLANTING DETAIL

PLACE 2 DORMANT BEACHGRASS CULMS IN EACH PLANTING HOLE

NOTES:
1. PLACE ROOT ZONE MIN. 8" BELOW SURFACE AND BACKFILL FIRMLY TO HOLD CULMS IN PLACE.
2. INSTALL AT 2' O.C. IN STAGGERED ROWS.
EXISTING BEACH GRADE

PROPOSED BEACH GRADE

3:1

TOP OF DUNE EL. 12.5

VEGETATED COVER (TYP)

BIODEGRADABLE SAND-FILLED COIR ENVELOPES. STACK AS NEEDED TO FILL DUNE CORE (COCONUT FIBER FABRIC)

FILL WITH SAND APPROVED FOR DUNE/BEACH NOURISHMENT

OVERLAP COIR FABRIC MINIMUM 2 FEET AND STITCH WITH BIODEGRADABLE MATERIAL AS NEEDED

DOUBLE LAYER COIR FABRIC (STITCH AT LONGITUDINAL JOINTS WITH MIN. 2-FOOT OVERLAP, MAX. 100 FT LENGTH, STAGGER ADJACENT JOINTS MIN. 20°)

10' TYP

24"± SAND COVER OVER COIR ENVELOPES

KEY MIN. 4' BELOW EXIST. BEACH GRADE

COIR ENVELOPE DETAIL

COCONUT COIR "CONTROL MAT 90" BY GEI WORKS OR EQUAL

ALTERNATE BIO-ENGINEERED SAND DUNE WITH COIR REINFORCEMENT

CONTINUOUS STA. 2+00 THRU 39+00

(WITH EXCEPTION OF STORM OUTFALL LOCATIONS)

SAND COVER 24"±

NOURISH SURFACE OF DUNE UNTIL VEGETATIVE ROOTS ESTABLISH

BEACH GRASS AND MISC. MARINE PLANTINGS

OVERLAP COIR FABRIC MINIMUM 2 FEET AND STITCH WITH BIODEGRADABLE MATERIAL AS NEEDED

DOUBLE LAYER COIR FABRIC (STITCH AT LONGITUDINAL JOINTS WITH MIN. 2-FOOT OVERLAP, MAX. 100 FT LENGTH, STAGGER ADJACENT JOINTS MIN. 20°)

10'± TYP

18-24" TYP

24"± TYP

10'± TYP

ALTERNATE BIO-ENGINEERED SAND DUNE WITH COIR REINFORCEMENT

CONTINUOUS STA. 2+00 THRU 39+00

(WITH EXCEPTION OF STORM OUTFALL LOCATIONS)
PLANTING DETAIL FOR ARMORED REVETMENT

NOT TO SCALE

WOODEN WALKOVER DETAIL (TYPE A)
FOR MAJOR PUBLIC CROSSINGS - ADA COMPLIANT

WOODEN WALKOVER DETAIL (TYPE B)
FOR MINOR PUBLIC CROSSINGS AND "PRIVATE" WALK-OVERS

Wooden Walkover Detail (Type A)

10' MAX FROM VEGETATION
5' CLEAR WIDTH BETWEEN RAILS

Wooden Walkover Detail (Type B)

2"x8" PT WOODEN TREADS
2"x4" OR 3" DIA. WOOD POST (TYP.)
WOODEN PLANK WALKOVER
NYLON ROPE
TIE-DOWN (TYP.)
WOODEN PLANK WALKOVER CONNECTED TO BOTTOM OF PLANKS

If this scale bar does not measure 1" then drawing is not original scale.

Attention:

ISSUE/REVISION NO.
DATE
APP

Permit Review:

0
12/12/2017
JM

Revisions Per Milford FECB:

1
03/09/2018
JM

Revisions Per CT DEEP Review:

2
03/23/2018
JM

Revised Per CT DEEP Review:

3
07/26/2018
JM

Coir Reinforcement Details Added:

4
11/28/2018
JM

Drainage Outfall Revisions:

5
01/16/2019
JM

Designed:

JM

Drawn:

DE

Checked:

SG

Approved By:

JM

December 2017
Project 1700458
Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

GEI Consultants

I:\Project\Milford City of\CAD\Figures\Wildemere-Walnut Beach\1700458 - DETL.dwg - 1/15/2019
WOODEN WALKOVER TIE-DOWN DETAIL (TYPE A)

WOODEN WALKOVER TIE-DOWN DETAIL (TYPE B)
**NOTES:**

1. TRACKING PAD 4” MIN. THICK.
2. PLACEMENT/LLOCATION OF ANTI-TRACKING PADS WILL BE CONTAINED IN A CONTRACTOR SUBMITTED DETAILED EROSION AND SEDIMENT CONTROL PLAN.

---

**TURBIDITY CURTAIN NOTES:**

1. CURTAIN FABRIC SHALL BE A BRIGHTLY COLORED, TIGHTLY WOVEN, GEOSYNTHETIC OR IMPERVIOUS REINFORCED THERMOPLASTIC MATERIAL.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF FLOATING SEDIMENT BARRIER TO ENGINEER FOR REVIEW AND APPROVAL.
3. FLOATING SEDIMENT BARRIER AND ANCHORS SHALL BE CAREFULLY REMOVED FROM WATERCOURSE AND ACCUMULATED SEDIMENT SHALL BE DISPOSED OF IN AN OFF-SITE UPLAND AREA.
4. FLOATING SEDIMENT BARRIER SHALL BE INSPECTED DAILY FOR DAMAGE AND SEDIMENT LOAD. DEPENDING ON THE DURATION OF THE PROJECT, SEDIMENT SHALL BE REMOVED WHEN ITS ACCUMULATION INTERFERES WITH THE FUNCTION OF THE FLOATING SEDIMENT BARRIER.

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**TURBIDITY CURTAIN DETAIL NOT TO SCALE**

1. BALES ARE TO BE PLACED 4 INCHES IN THE SOIL, TIGHTLY ABUTTED WITH NO GAPS, STAKED AND BACKFILLED AROUND THE ENTIRE OUTSIDE PERIMETER.
1. THE CONTRACTOR ULTIMATELY SELECTED SHALL COMPLY WITH THE DEEP PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND BE RESPONSIBLE FOR OVERSEEING THE INSTALLATION AND MAINTENANCE OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES. CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING THIS PERMIT, AND FOR COMPLIANCE DURING CONSTRUCTION.

2. THE CONTRACTOR ULTIMATELY SELECTED WILL BE REQUIRED TO PROVIDE A SUBMITTAL WHICH PROVIDES DETAILS, PROCEDURES, AND WORK METHODS TO PROPERLY EXECUTE THE WORK, PROTECT THE ENVIRONMENT, AND MINIMIZE DISRUPTION TO ADJACENT PROPERTIES AND PUBLIC FACILITIES. THIS PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO:
   - PREPARATION OF VARIOUS PLANS AND OTHER WRITTEN SUBMITTALS REQUIRED FOR PROPER CONTROLS DURING CONSTRUCTION.
   - IDENTIFICATION OF STAGING AND STOCKPILE AREAS.
   - LOCATION AND PLACEMENT OF ANTI TRACKING PADS TO CONTROL SEDIMENTS.
   - SEQUENCING OF PLACEMENT AND REMOVAL OF TURBIDITY CURTAINS THAT WILL BE INSTALLED IN PHASES ALONG DUNE AND BEACH NOURISHMENT SECTIONS IN A "ROLLING" FASHION.
   - TRUCK ROUTES AND ACCESS POINTS FOR PORTIONS OF THE PROJECT REQUIRING OVERLAND DELIVERY OR REMOVAL OF MATERIAL.
   - FOR MATERIAL DELIVERED OR REMOVED FORM SITE USING WATERBORNE MEANS (BARGES, ETC.) A DETAILED SUBMITTAL WILL BE REQUIRED.

3. SEDIMENTATION AND EROSION CONTROL MEASURES ARE PROPOSED TO ADEQUATELY CONTROL THE ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORMWATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE.

4. EXISTING DUNE VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING THAT IS ABSOLUTELY NECESSARY FOR THE PROPOSED DUNE CONSTRUCTION, DRAINAGE INSTALLATION, AND BEACH NOURISHMENT SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS DUNE CONSTRUCTION, BEACH NOURISHMENT, AND DREDGING METHODS AND SHALL COMPLY WITH SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS.

5. ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER DREDGING, INCLUDING THE CORRESPONDING STORAGE AND HANDLING AREAS FOR DREDGED SEDIMENT. STOCKPILES MUST BE ADEQUATELY PROTECTED WITH HAY BALES AND/OR FILTER FABRIC FENCE AS INDICATED.

6. FREQUENTLY INSPECT EROSION CONTROLS. REPAIR/REPLACE DEFICIENT EROSIONS CONTROLS PROMPTLY, AS NEEDED.

7. STONE STABILIZED VEHICLE ANTI-TRACKING PADS SHALL BE LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS FROM THE CONSTRUCTION SITE TO REDUCE TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. FILTER FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO PLACEMENT OF STONE. STONE SHALL BE PLACED TO THE DIMENSIONS SHOWN ON THE PLAN. PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, MAY BE REQUIRED TO ENSURE THAT THE ENTRANCE FUNCTIONS AS INTENDED. PUBLIC ROADWAYS SHALL BE CLEANED OF DIRT AND DEBRIS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.

8. IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

9. DURING DREDGING OPERATIONS REQUIRED FOR INSTALLATION OF DRAINAGE, ROCK CORE BASE, AND OTHER COMPONENTS, THE AREA AND DURATION OF SEDIMENT EXPOSURE SHALL BE MINIMIZED, AND THE SEQUENCE OF DREDGING OPERATION SHALL ACT TO MINIMIZE THE EXPOSURE.