

Construction & Material Specifications Cont.

Material Specifications & Details

DEPARTMENT OF PUBLIC WORKS
ENGINEERING
APPROVED
OCT 26 2020

Ken Middleton / Fox
John Knapp

DIVISION IV

WETLANDS VEGETATION

4.1 Scope

The work covered in this section will include furnishing all labor, plant, equipment and materials, and performing all operations required to complete the installation of the wetlands vegetation as shown on the Drawings and in strict accordance with this Specification.

4.2 Contractor's Responsibilities

The Contractor will be responsible for replanting any areas which do not show the proper density of wetland vegetation for a period of one (1) year from the date of acceptance of the finished project. The minimum acceptable density of surviving wetland species vegetation will be 85% for every 25 linear feet measured along the shoreline.

4.3 Wetlands Planting

4.3.1. *Spartina patens*

A. Materials:

- Fertilizer:** Each transplant site will be fertilized with one ounce of "Osmocote 3 - 4 Month 19-6-21" (or equivalent slow-release) fertilizer placed in the planting hole at the time of planting.
- Plant Stock:** Plant stock will be *Spartina patens* grown in peat pots. Prior to installing plants at the project site, the Contractor will be required to show proof of a valid Maryland Nursery Inspection Certificate or Plant Dealers License (or comparable certification for out-of-state installers). All shipments of nursery stock into Maryland must be accompanied by a valid certificate of inspection issued at the state of origin, and acceptable to the Maryland Department of Agriculture Office of Plant Industries and Resource Conservation. Plants will be three to six months old and approximately 12 inches high. Individual pots will contain three or more plants.
- It will be the responsibility of the Contractor to maintain the vigor of the plants held at the site during site preparation work and construction. Plants held at the site will be watered by sprinkling with fresh water at least once a day.
- Planting will be done with moist, but not saturated, root masses. Plants will not be removed from the peat pots.

B. Soil Preparation and Planting:

- Grass, weeds and debris will be cleaned from all areas to be planted, and the ground surface will be smoothed.
- After grading, the Mid-tide and Mean High Water (MHW) lines will be marked on the ground, and plantings made in rows generally parallel to and between these lines, or according to the elevations as specified on the Drawings. Rows will be 1.5 feet apart, and plants will be 1.5 feet apart in the rows.
- Plantings will be made by hand with dibble, spade or shovel by opening a hole at the planting site, placing the fertilizer and then the plant in the hole, closing the hole and firming the soil around the plant so that the surface soil is three to four inches above the top of the root mass.

4.4 Planting Season

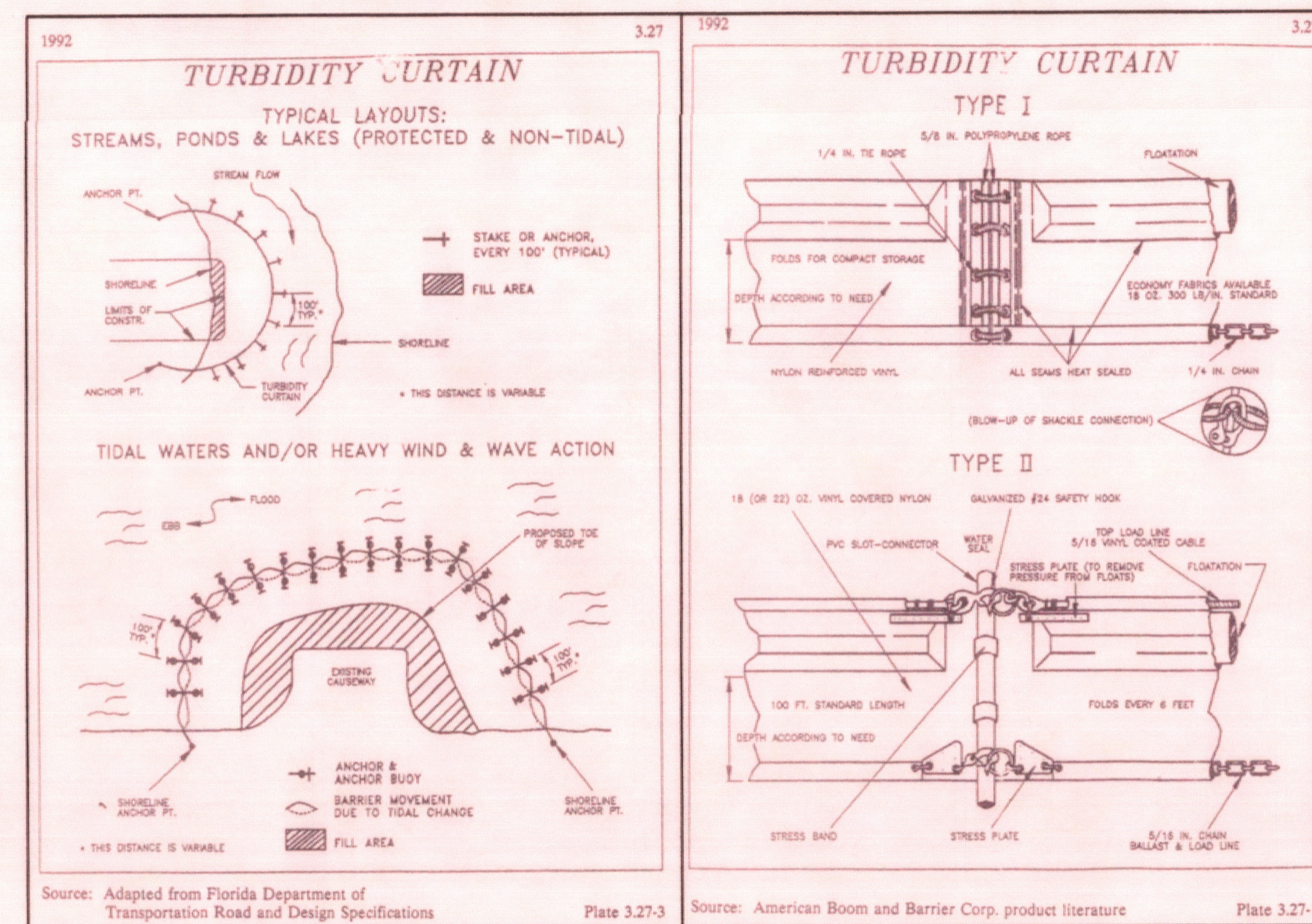
4.4.1. *Spartina patens*:

Springing will be accomplished between August 15 and October 15 or between April 1 and June 30 during periods of low tide.

4.5 Goose Exclusion Fence:

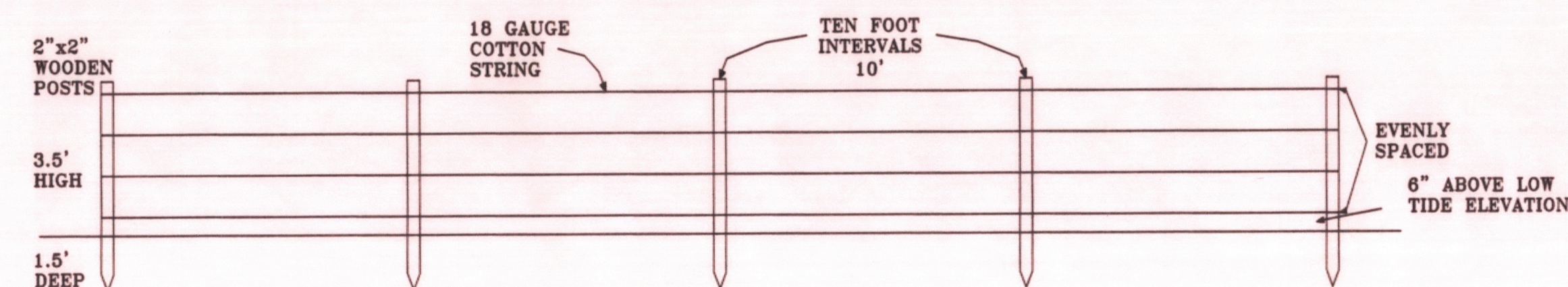
Goose exclusion fence will be installed to protect new marsh grass plantings. Two inch by two inch wooden posts, five feet, in length, will be installed approximately 1.5 feet deep at about ten-foot intervals along the outer limits of the plantings. Cotton string, minimum 18 gauge, will be stretched taut between posts, wrapped once around each post, and secured with staples. The first strand of string will be six inches above the level of low tide, with three additional strands of string installed at even spacing higher up on the posts, for a total of four strands. The goose fence will be tied back into the embankment at the landward limit of the area of wetlands planting.

Turbidity Curtain Detail (NTS)



Goose Exclusion Fence

Not To Scale



Professional Certification:
I hereby certify that these documents were prepared and approved by me and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, license No. 14544.
Glenn G. Gass, P.E.
Expiration Date: August 16, 2021

CAUTION
Breezy Point Plan.dwg
24 x 36
LAYOUT NO.
7
NO 7 OF 8

BREEZY POINT PARK
Construction & Material Specifications
Shoreline Re-Establishment Project
Calvert County, Maryland

DATE	6/19	6/19	7/19
Designed	G. Gass	G. Westbrook	B. Clark
Drawn	G. Westbrook		
Revised			
Checked			
Approved by	G. Gass	District Engineer	
Title			
Title			