

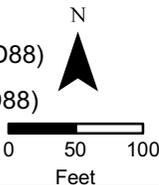


Marsh 1

Marsh 2

Legend

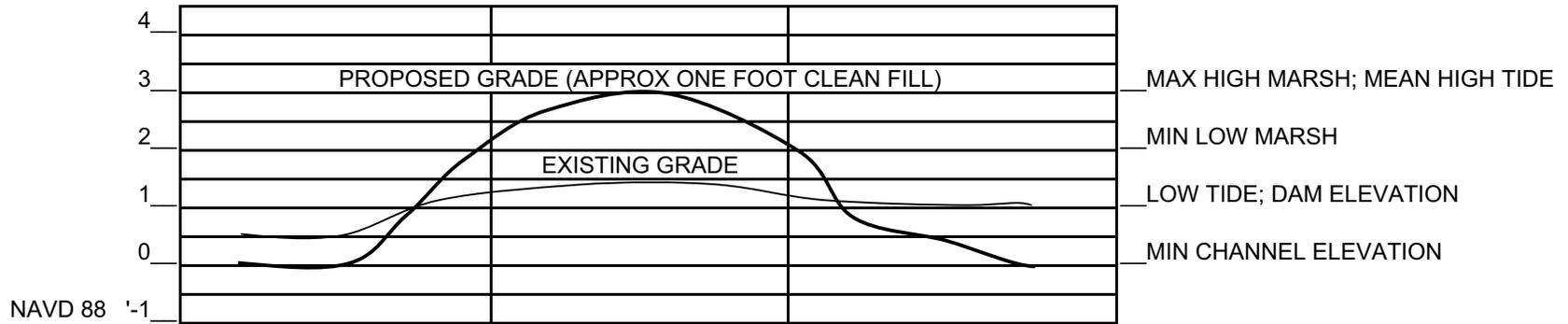
- High Marsh; Maximum Final Elevation 3.0' (NAVD88)
- Low Marsh; Maximum Final Elevation 2.0' (NAVD88)
- Removal and Backfill Areas; Final Elevation 0.0' (NAVD88)



Note: The two marshes shown above contain areas of low marsh, which will be inundated during high tide, and five smaller areas of high marsh, which will remain just above the water surface during normal high tide.

Exhibit I-1
Restoration Plan
Stamford and Darien, CT

TABLE 1 PLANT MATERIAL LIST						
PLANTING ZONE	PLANT SPECIES	COMMON NAME	PLANTING SPACING (feet)	APPROX. PLANTING AREA (acres)	FORM	TOTAL PLANTS
High Marsh	<i>Spartina alterniflora</i>	Saltwater cordgrass	2-feet centers	5445	Cell	18115
Low Marsh				5445	Cell	18115
Totals				36,230		36230



TYPICAL CROSS SECTION THROUGH MARSH RESTORATION AREA
NOT TO SCALE

Exhibit I-2
Typical Cross Section and Plant List
Stamford and Darien, CT

PLANTING NOTES:

1. ACCEPTABLE APPEARANCE OF WETLAND PLANT MATERIALS. PLANT MATERIALS WILL BE COLLECTED FROM HEALTHY, LOCAL NATIVE STOCK. THE CONTRACTOR SHALL FURNISH CONTAINER GROWN WETLAND PLANTS IN THE CONTAINERS OF SPECIFIED SIZE FOR EACH LISTED SPECIES. PLANTS WILL HAVE SELF-ESTABLISHED ROOT SYSTEMS THAT ARE THE SIZE OF THE SPECIFIED CONTAINER THEY WERE GROWN IN. THE ROOT SYSTEMS WILL BE SUFFICIENT TO HOLD EARTH TOGETHER AFTER REMOVAL FROM THE CONTAINER, BUT NOT ROOT-BOUND. IF THE SOIL/ROOT MASSES ARE SUBSTANTIALLY SMALLER THAN THE SPECIFIED CONTAINER SIZE AND LOOSE SOIL EXISTS ON THE BOTTOM OF THE CONTAINERS, OR LARGER AND ROOT-BOUND, THE PLANTS SHALL BE REJECTED AND REPLACED. THE SOIL/ROOT MASSES OF ALL PLANTS SHALL BE SATURATED UPON DELIVERY TO THE JOB SITE, AND DRY AND LIGHTWEIGHT PLANTS SHALL BE REJECTED AND REPLACED. THE PLANTS SHALL APPEAR HEALTHY, WITH NO LEAF SPOTS, LEAF DAMAGE, LEAF DISCOLORATIONS, CHLOROSIS, LEAF WILTING OR CURLING, OR EVIDENCE OF INSECTS ON THE LEAVES. THE CONTRACTOR WILL MAKE REPRESENTATIVE SAMPLES OF PLANT PROPAGULES AVAILABLE FOR INSPECTION AND APPROVAL BY THE INSPECTOR.
2. TRANSPORTATION AND STORAGE OF WETLAND PLANTS. PLANTS SHALL BE APPROPRIATELY PACKAGED AND DELIVERED TO THE SITE IN AN ENCLOSED VEHICLE THE DAY OF PLANTING TO ENSURE THE PROPER CONDITION OF THE MATERIALS UPON ARRIVAL. IF NOT PLANTED IMMEDIATELY AFTER BEING DELIVERED TO THE JOB SITE, THE PLANTS SHALL BE STORED OUT OF DIRECT EXPOSURE TO THE SUN AND WIND AND THEIR ROOT MASSES MAINTAINED MOIST THROUGH PERIODIC WATERING UNTIL THE TIME OF PLANTING. IF PLANTING IS DELAYED, THE SUPPLIER/PLANTER WILL BE RESPONSIBLE FOR RETURNING THE PLANTS TO APPROPRIATE STORAGE UNTIL SUITABLE PLANTING CONDITIONS ARE MET.
3. PREPARATION FOR PLANTING. THE SOIL IN THE EXCAVATION MUST BE SATURATED, BUT NOT PONDED PRIOR TO PLANTING. IF EXCESS WATER EXISTS THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING A SUITABLE PLANTING ENVIRONMENT THROUGH COORDINATION WITH THE ENGINEER.
4. WETLAND PLANTING. WETLAND PLANTS SHALL BE PLANTED WITHIN THE PROPER ELEVATION ZONE AND AT PROPER DENSITY AS INDICATED. PLANTING SHALL BE DONE BY HAND USING A DIBBLE, PLANTING SPADE, OR OTHER METHOD APPROVED BY THE INSPECTOR OR ENGINEER. THE APPROVED TOOL SHALL BE USED TO CREATE A SHALLOW HOLE FOR PLANTING. THE HOLE SHALL BE SUFFICIENT DEPTH AND WIDTH TO ALLOW THE ROOT TO BE INSERTED WITHOUT BREAKAGE, DAMAGE, J-ROOTING, OR ROOT EXPOSURE OCCURRING. THE SEEDLING SHALL BE PLANTED NO DEEPER THAN NECESSARY TO HAVE ROOTS BURIED. AFTER PLACEMENT OF THE SEEDLING IN THE HOLE, THE HOLE SHALL BE SUFFICIENTLY CLOSED AROUND THE PLANT ROOT BY GENTLY APPLYING PRESSURE TO THE EDGE OF THE HOLE WITH ONE'S FOOT OR ANOTHER METHOD APPROVED BY THE INSPECTOR.

Preliminary Cost Estimate for Holly Pond Tidal Marsh Restoration

The Holly Pond tidal marsh restoration is a component of a multi-phase program to reduce sedimentation and improve habitat in Holly Pond and the Noroton River. The overall project is being undertaken by the City of Stamford in cooperation with the Town of Darien. The size of the program requires funding from multiple sources as it progresses. Up to \$890,000 of funding has been confirmed for the current phase of work. \$500,000 from the State of Connecticut has been allocated for collection of updated field data to support design and implementation of the project. \$490,000 in environmental enhancement funds from the Federal Highway Administration/Connecticut Department of Transportation can be applied to the construction/implementation of improvements in the watershed that relate to the sedimentation concerns. Other sources of funding have been and will be sought for the current and future phases of work.

The City of Stamford's consulting engineer, CH2M HILL, has prepared a preliminary cost estimate for the Holly Pond inlet restoration summarized as follows:

2010: The project will commence immediately upon project funding availability. The baseline assessment will be documented in Summer 2010. The project plans will be adapted based on collected information and other input to allow for streamlined permitting and a competitive bid process to select a contractor for the grading element of the project. Grading will commence at the earliest possible date to optimize the Spring 2010 planting season.

2011: Planting in the spring will ensure the longest growing season, the best chance for plant survival, and the best project outcomes. Major construction will be completed and monitoring will commence.

2012 - 2016: Monitoring continues. Success of vegetation and habitat will be evaluated based on the reference wetland documented in Year 1. Observations will be evaluated and recommendations for adaptation (e.g., supplemental planting) will be made. Additional funding will be sought to monitor and implement improvements beyond 5 years.

Use of Project Funding:

2010

Baseline Assessments	\$ 118,000
Final design; submit permits	\$ 101,000
Obtain permits; bidding; execute contracts	\$ 100,000
2010 Total	\$ 319,000

2011

Mobilize and complete grading	\$4,302,000
Planting; demobilize	\$ 747,000
2011 Total	\$5,049,000

2012

Construction Report/Monitoring and Evaluation	\$ 48,000
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2013	
Monitoring and Evaluation	\$ 24,000
2014	
Monitoring and Evaluation	\$ 24,000
2015	
Monitoring and Evaluation	\$ 25,000
2016	
Monitoring and Evaluation	\$ 26,000
Grand Total	\$5,515,000