

From: [Chet Myers](#)
To: [Mike Marsh](#); [Sneeringer, Paul J NAE](#)
Cc: [Ann Williams](#); [Christopher Morris](#)
Subject: Rivers End Park
Date: Tuesday, September 11, 2012 9:18:02 AM
Attachments: [Rivers End Park B&T 1714 NOI Draft Mar 28 12.pdf](#)

Hi Mike and Paul,

Attached please find plans for the River's End Park mitigation project located north of the Wood Street Bridge in New Bedford, MA.

The Commonwealth is currently considering adding this mitigation project to replace the Stormwater Drainage Swale Mitigation Area project.

The project as designed is currently approximately 15,000 square feet (0.34 acres).

We will be able to show you the location of this project when you are onsite this Thursday after you take a look at the onsite wetland flagging.

Thanks,

<<http://www.apexcos.com/>>

Chet Myers

Apex Companies, LLC

125 Broad Street, 5th Floor

Boston, MA 02110

O) 617-728-0070 M) 617-908-5778

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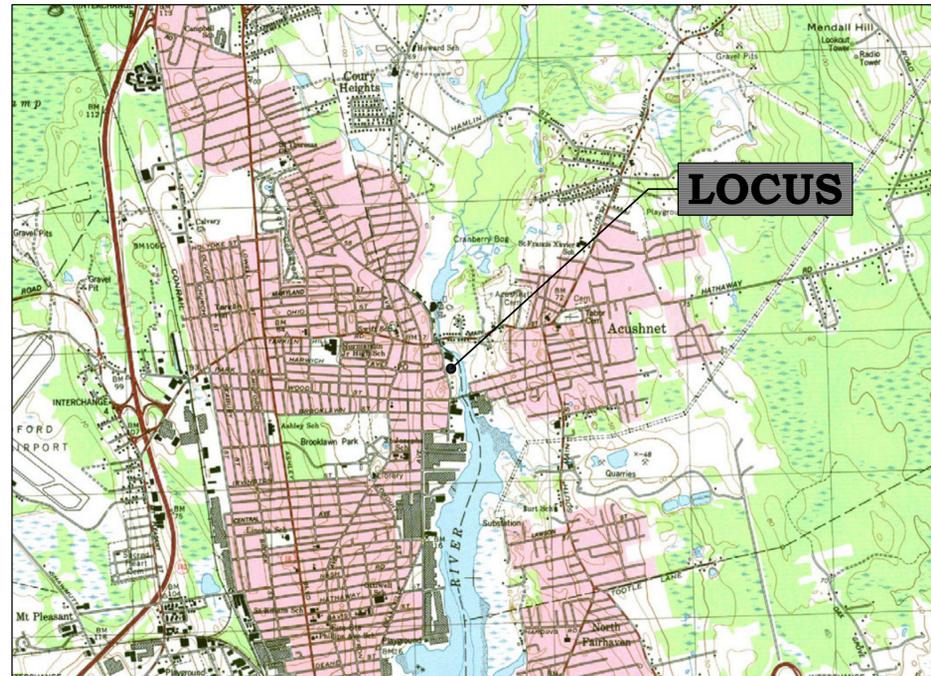
SALT MARSH CREATION AT RIVERS END PARK IN NEW BEDFORD, MASSACHUSETTS (Bristol County)

OWNER/APPLICANT/SURVEYOR

City of New Bedford
Department of Public Infrastructure
1105 Shawmut Avenue
New Bedford, Massachusetts 02746

CIVIL ENGINEER AND WETLAND SCIENTIST

Beals and Thomas, Inc.
32 Court Street
Plymouth, Massachusetts 02360



Locus Map
Scale: 1" = 2000'

Pricing Set - MARCH X, 2012

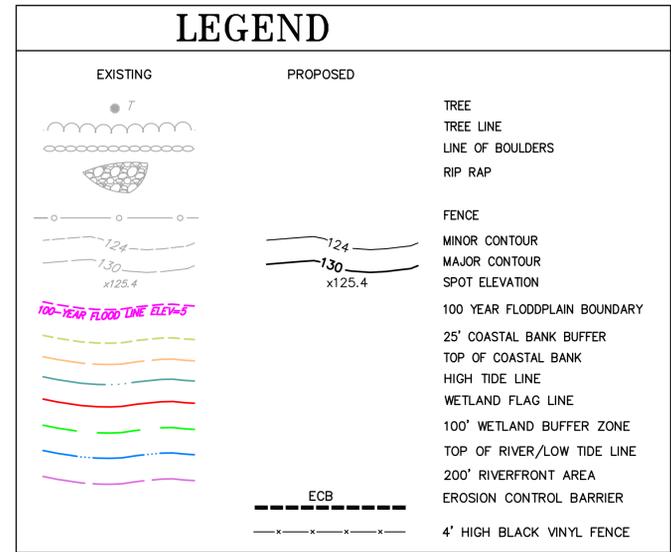
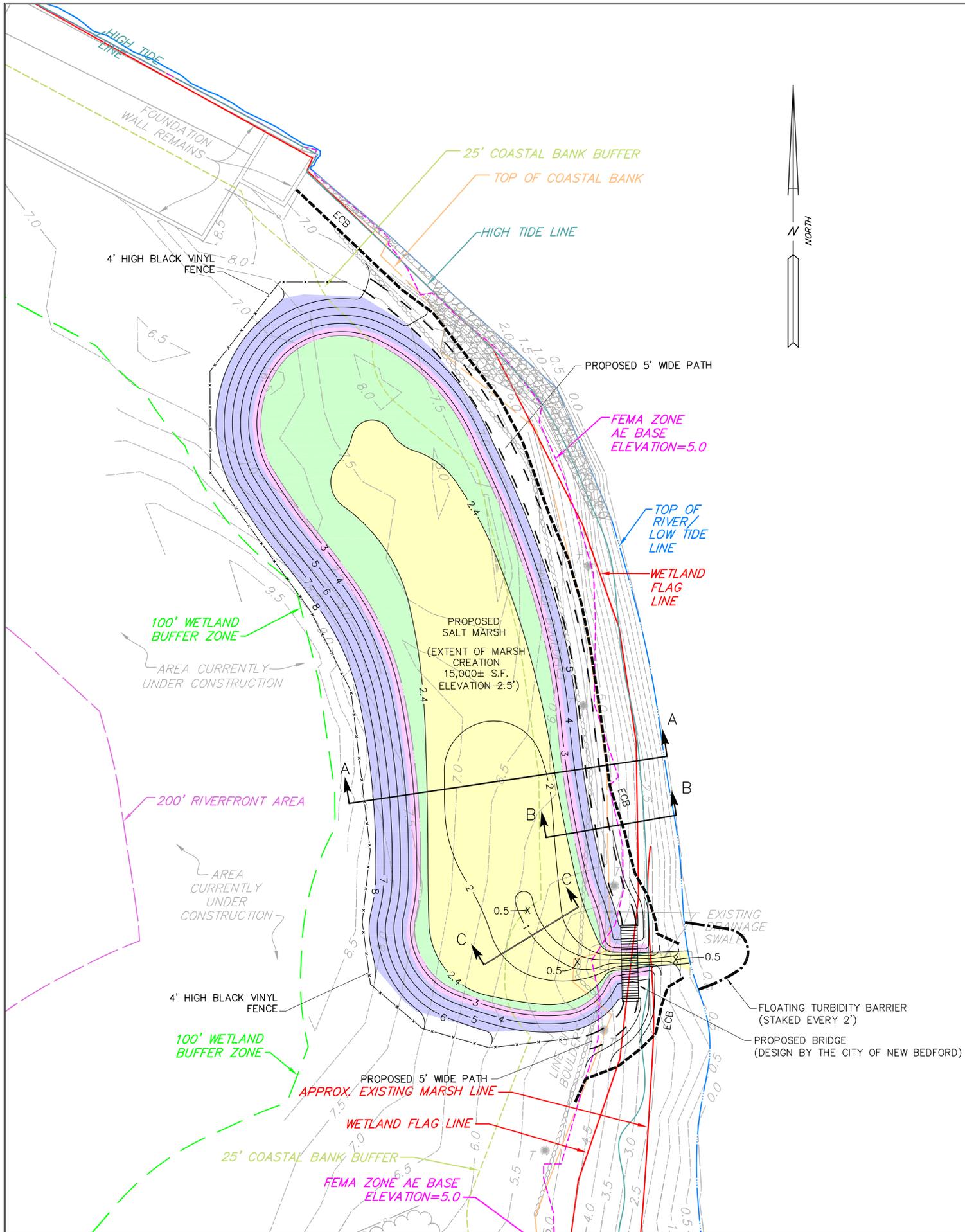
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Job No.: 1714.08
Dwg. No.: 171408P028A-001
Sheet 1 of 4



PLANTING LIST

Legend	Elevation	Area (sf)	Plant Species	% Coverage/Spacing	Size
Low Marsh	To El. 2.4'	9,727	Short form smooth cord grass (<i>Spartina alterniflora</i>)	100% at 1.5' on center, 2 culms per hole (9,960 plants)	plugs
High Marsh	El. 2.4'-2.5'	5,380	Salt meadow grass (<i>Spartina patens</i>)	75% at 1' on center (4,640 plants)	plugs
			Spike grass (<i>Distichlis spicata</i>)	25% at 1' on center (1,547 plants)	plugs
	El. 2.5'-3.5'	1,941	Black grass (<i>Juncus gerardii</i>)	15% at 1' on center (335 plants)	plugs
			New England Coastal Salt Tolerant Grass Mix	85% at 1250 sf per pound	seed
			Marsh elder (<i>Iva frutescens</i>)	# at 4' on center	2'-3'
Berm	El. 3.5' and up	5,770	New England Coastal Salt Tolerant Grass Mix	100% at 1250 sf per pound	seed
			Seaside goldenrod (<i>Solidago sempervirens</i>)	33% @ 1900 sf per pound	seed
			Eastern showy aster (<i>Eurybia spectabilis</i>)	33% @ 1900 sf per pound	seed
			Threadleaf coreopsis (<i>Coreopsis verticillata</i>)	33% @ 1900 sf per pound	seed
			Beach plum (<i>Prunus maritima</i>)	61 plants at 6' on center	2'-3'
			Beach rose (<i>Rosa rugosa</i>)	61 plants at 6' on center	2'-3'
			Northern bayberry (<i>Myrica pensylvanica</i>)	61 plants @ 6' on center	2'-3'

PREPARED FOR:
CITY OF NEW BEDFORD
 DEPARTMENT OF PUBLIC INFRASTRUCTURE
 1105 SHAWMUT AVENUE
 NEW BEDFORD, MASSACHUSETTS 02746

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PROJECT:
SALT MARSH CREATION AT RIVERS END PARK
 NEW BEDFORD, MASSACHUSETTS

SCALE: 1" = 20' DATE: MARCH 1, 2012

SITE PLAN

B+T JOB NO.1714.08
 B+T PLAN NO. 171408P028A-002
 SHEET 2 OF 4

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NOTES

GENERAL NOTES

THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.

LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS, FLOATING TURBIDITY BARRIER, LIMIT OF GRADING, SITE PROPERTY LINES, AND/OR AS INDICATED ON DRAWINGS.

PORTIONS OF THE ROADWAY, SIDEWALK AND ROADSIDE AREA DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR CONDITIONS PRIOR TO DISTURBANCE.

ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.

ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

PROTECT EXISTING PROPERTY MONUMENTS AND ADJUTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

EROSION CONTROL AND SEDIMENTATION NOTES

AN EROSION CONTROL BARRIER AND FLOATING TURBIDITY BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED WORK AS INDICATED ON THE PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS.

ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.

ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.

ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.

SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.

ALL TOPSOIL ENCOUNTERED WITHIN WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE DISPOSED OF ON-SITE AS DIRECTED BY OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.

TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENuded SURFACE WHICH WILL BE EXPOSED FOR A PERIOD OF ONE MONTH OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE MULCHED WITH STRAW. MULCH SHALL BE SPREAD UNIFORMLY IN A CONTINUOUS BLANKET OF SUFFICIENT THICKNESS TO COMPLETELY HIDE THE SOIL FROM VIEW.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT.

CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER.

DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

STRAWBALE CHECK DAMS SHALL BE PROVIDED AROUND ALL EXISTING DRAIN INLETS PRIOR TO CONSTRUCTION ACTIVITIES TO CONTROL SILTATION.

EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE WETLANDS.

ADDITIONAL STRAWBALES SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

CLEAN AND MAINTAIN EROSION CONTROL BARRIER AND FLOATING TURBIDITY BARRIER AS REQUIRED DURING AND AFTER CONSTRUCTION OPERATIONS TO ENSURE ITS CONTINUED FUNCTIONALITY.

THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL BARRIERS AFTER REVEGETATION OF DISTURBED AREAS AND AFTER APPROVAL OF THE CONSERVATION COMMISSION AND WETLAND SPECIALIST.

SALT MARSH CONSTRUCTION GUIDELINE

FLAG OR STAKE LIMITS OF SALT MARSH CREATION AREA.

OVER EXCAVATE AND REMOVE SOIL TO 12" BELOW FINAL GRADE ELEVATIONS AS NOTED. TO ACHIEVE FINAL GRADE, BACKFILL OVER EXCAVATION WITH MARSH BASE AS SPECIFIED BY THE WETLAND SCIENTIST. PEAT SOILS ENCOUNTERED DURING EXCAVATION MAY BE LEFT IN PLACE. IF TEMPORARY STOCKPILING OF WETLAND SOIL IS NECESSARY, MATERIAL MUST BE COVERED TO PREVENT LEACHING, MOISTURE LOSS AND SEDIMENT TRANSPORT.

EROSION CONTROL BARRIERS AND FLOATING TURBIDITY BARRIER AS SPECIFIED ARE TO BE MAINTAINED THROUGHOUT AND FOLLOWING THE CONSTRUCTION PERIOD UNTIL THE SALT MARSH CREATION AREA BECOMES STABILIZED AND THEIR REMOVAL HAS BEEN AUTHORIZED BY THE WETLAND SPECIALIST OR CONSERVATION COMMISSION. DILAPIDATED STRAW BALES AND/OR EROSION CONTROL BARRIER SHALL BE REPLACED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE BARRIER.

UPON APPROVAL BY THE WETLAND SPECIALIST, PLANT SPECIFIED TREE, SHRUB AND/OR HERBACEOUS WETLAND PLANTINGS WITHIN THE DESIGNATED AREA(S) AS NOTED. FOLLOWING PLANTING, PLACE WETLAND SEED MIX THROUGHOUT THE SALT MARSH CREATION AREA AS SPECIFIED. SPACING OF WETLAND PLANTINGS AND SEEDING APPLICATION RATES SHALL BE DETERMINED BY THE WETLAND SPECIALIST. PRIOR TO PLANTING OR SEEDING, THE WETLAND SPECIALIST MUST APPROVE THE PLANT MATERIALS.

PLANTING WILL PREFERABLY OCCUR DURING THE SPRING PLANTING PERIOD. DEVIATIONS FROM THE PLANTING SCHEDULE AND/OR APPROVED PLANTING LIST MUST BE APPROVED IN ADVANCE BY THE WETLAND SPECIALIST.

THE SALT MARSH CREATION AREA SHALL BE EVALUATED DURING THE FIRST AND SECOND GROWING SEASONS TO DETERMINE PLANT SURVIVAL. THE CONSERVATION COMMISSION SHALL BE NOTIFIED OF EXISTING SITE CONDITIONS AND ANY CORRECTIVE ACTION IF NECESSARY. AT LEAST 75 PERCENT OF THE REPLACEMENT SURFACE AREA SHALL BE ESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES WITHIN TWO GROWING SEASONS.

INCORPORATED BY REFERENCE ARE THE PROVISIONS OF THE SUBJECT ORDER OF CONDITIONS ISSUED BY THE CONSERVATION COMMISSION AND ANY OTHER PERMITS.

A TIME-RELEASE FERTILIZER WILL BE USED FOR MARSH ELDER AND SLOPE PLANTINGS.

TRANSPLANTATION OF EXISTING *SPARTINA ALTERNIFLORA* WILL BE PERFORMED DURING THE GROWING SEASON USING A GRADING BUCKET. MARSH BASE AS SPECIFIED BY THE WETLAND SCIENTIST WILL BE USED TO SMOOTH TRANSPLANTED AREAS, AND A BEANPOLE WILL BE PLACED THROUGH THE CENTER OF TUSSOCKS TO KEEP TRANSPLANTED SPECIMENS IN PLACE.

ANY PLANT MATERIALS FROM *PHARAGMITES AUSTRALIS* OR OTHER INVASIVE SPECIES ENCOUNTERED DURING SITE PREPARATION AND EXCAVATION ARE TO BE DISPOSED OF AT AND APPROVED OFF-SITE LOCATION.

ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.

NO PLANT SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.

ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.

PEAT AND ORGANIC MATERIAL STRIPPED FROM AN ALTERED WETLAND IS TO BE PROPERLY STOCKPILED AND USED FOR PREPARATION OF PROPOSED WETLAND AREA. SEED SHALL BE FRESH, RECLEANED SEED OF THE LATEST CROP. SEED SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL CONTAINERS WHICH SHALL BEAR THE VENDOR'S GUARANTEE OF ANALYSIS.

REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE.

PLANTING SEED SHALL BE SOWN EVENLY WITH MECHANICAL SPREADER OR BY HAND. ALL SEEDING SHALL BE DONE ON DAYS WHEN THE WIND DOES NOT EXCEED A VELOCITY OF FIVE (5) MILES PER HOUR AND THE SEED SHALL BE DRY.

STRAW MULCH SHALL BE SPREAD UNIFORMLY OVER ALL SEEDED AREAS AT THE RATE OF TWO (2) BALES PER ONE THOUSAND (1,000) SQUARE FEET.

EXCAVATED SOIL TO BE DISPOSED OF AS DIRECTED BY THE OWNER OR ITS REPRESENTATIVE.

PEAT SOILS TO BE UTILIZED IN THE SALT MARSH CREATION AREA SHALL NOT BE HARVESTED IN A DESTRUCTIVE MANNER FROM EXISTING WETLANDS.

DURING DROUGHTY PERIODS THE CONTRACTOR SHALL MAINTAIN MOISTURE IN STOCKPILED SOILS THAT WILL BE USED ON-SITE.

HERBACEOUS SALT MARSH PLANTS FROM EXISTING SALT MARSH AREAS TO BE IMPACTED BY PROPOSED WORK SHALL BE TRANSPLANTED TO THE CREATION AREA.

PLANTS SHALL NOT BE STORED ON-SITE FOR LONGER THAN TWO WEEKS.

A NITROGEN RICH SLOW RELEASE FERTILIZER MAY BE ADDED TO EACH PLANTING HOLE PRIOR TO CLOSING. THE ORGANIC CONTENT OF THE SOIL SUBSTRATE WITHIN THE SALT MARSH CREATION AREA SHALL BE DETERMINED BY MATCHING THAT WITHIN THE ADJACENT EXISTING SALT MARSH. SPECIFICALLY REFERENCE SAMPLES SHALL BE TAKEN FROM THE EXISTING LOW AND HIGH MARSHES TO DETERMINE WHAT THE ORGANIC CONTENT OF THE PROPOSED LOW AND HIGH MARSHES SHALL BE.

GRADING AND DRAINAGE NOTES

BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.

ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES, GRADES AND OTHER SPECIFIC REQUIREMENTS OR SPECIFICATIONS OF THE CITY OF NEW BEDFORD DEPARTMENT OF INFRASTRUCTURE.

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ENGINEER FOR RESOLUTION.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.

EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

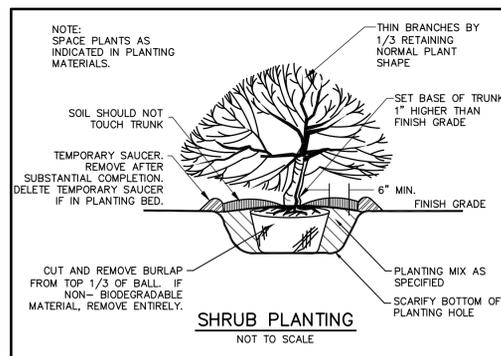
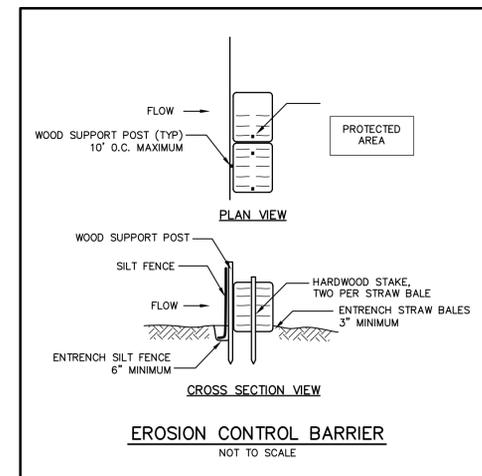
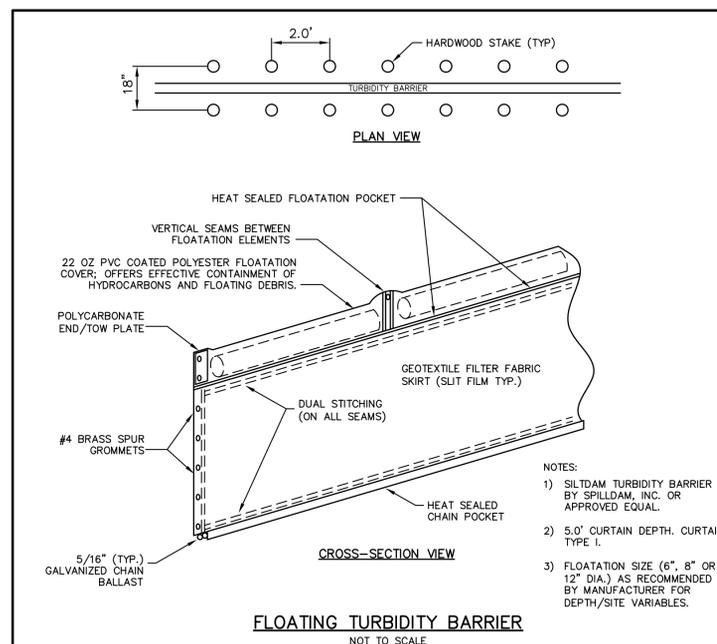
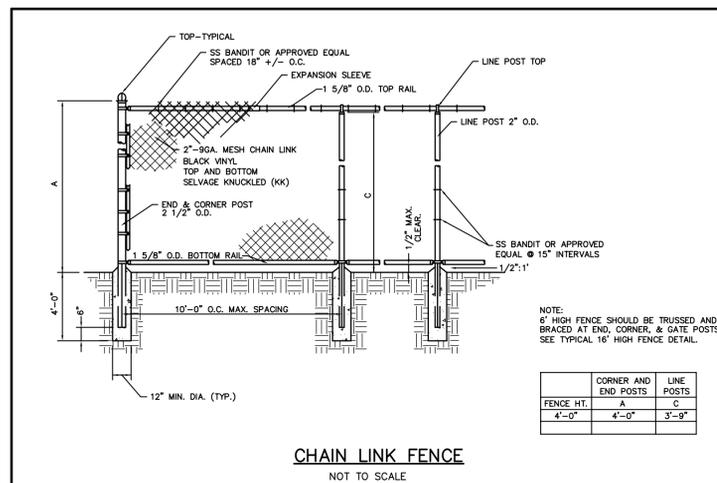
STOCKPILED TOPSOIL SHALL BE PLACED NEATLY IN AN AREA INDICATED BY THE OWNER.

PITCH EVENLY BETWEEN SPOT GRADES.

ACCEPTANCE OF FINAL GRADING SHALL NOT OCCUR UNTIL THE CREATION AREA HAS BEEN SUBJECTED TO A MINIMUM OF SIX TIDAL CYCLES. A SURVEY SHALL THEN BE CONDUCTED TO DETERMINE IF SUPPLEMENTAL BACKFILL MATERIALS ARE NECESSARY TO ACHIEVE REQUIRED ELEVATIONS FOR PLANTING. BACKFILL MATERIALS SHALL ALSO BE ALLOWED TO SETTLE FOR A MINIMUM OF SIX TIDAL CYCLES PRIOR TO PLANTING.

REFERENCES

- ALL EXISTING CONDITIONS INCLUDING RESOURCE AREAS PROVIDED BY CITY OF NEW BEDFORD, DEPARTMENT OF PUBLIC INFRASTRUCTURE CAD FILE ENTITLED, "RIVERS END PARK PROJECT PRIMARY.DWG" DATED JUNE 24, 2010 AND RECEIVED BY BEALS AND THOMAS, INC ON APRIL 4, 2011.
- ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
- THE PARCEL SHOWN IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE AS SHOWN ON "FLOOD INSURANCE RATE MAP, CITY OF NEW BEDFORD, MASSACHUSETTS", BRISTOL COUNTY, COMMUNITY PANEL NUMBER 255216 0391F, EFFECTIVE DATE JULY 7, 2009.



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CITY OF NEW BEDFORD

DEPARTMENT OF PUBLIC INFRASTRUCTURE
1105 SHAWMUT AVENUE
NEW BEDFORD, MASSACHUSETTS 02746

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NEW BEDFORD, MASSACHUSETTS

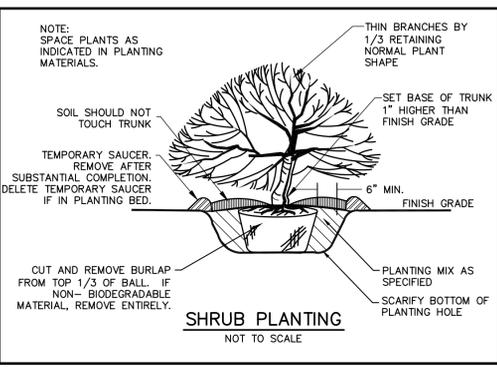
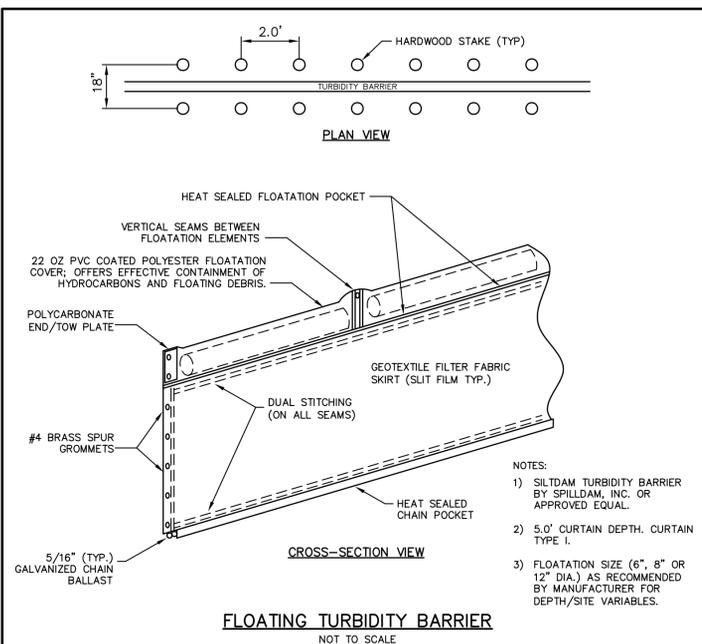
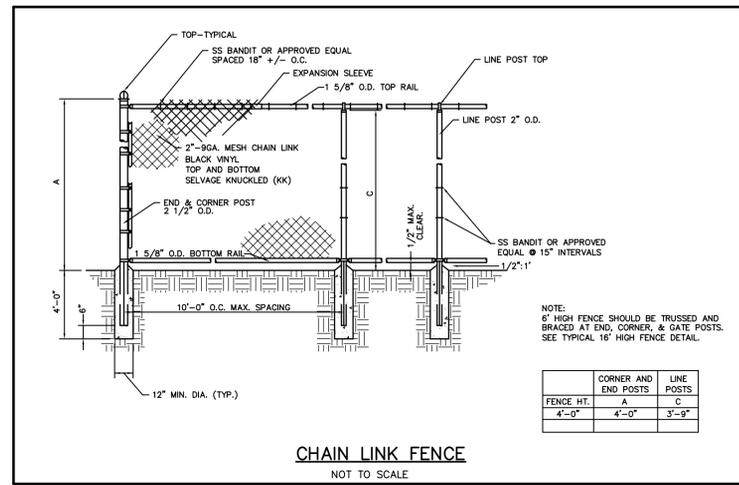
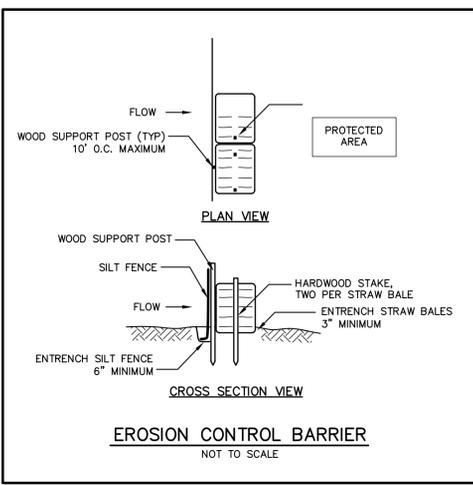
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NOTES AND SITE DETAILS

B+T JOB NO. 1714.08

B+T PLAN NO. 171408P028A-004

SHEET 4 OF 4



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DEPARTMENT OF PUBLIC INFRASTRUCTURE
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SCALE: AS NOTED DATE: MARCH 1, 2012
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SITE DETAILS
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B+T PLAN NO. 171408P028A-005
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