

U.S DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE DEERFIELD PARK WETLAND CREATION

PRELIMINARY CONTRACT SET

SMITHFIELD, RHODE ISLAND

MAY 2007

PROJECT CONTACTS:

CONTRACT OWNER

NATURAL RESOURCES CONSERVATION SERVICE
60 QUAKER LANE, SUITE 46
WARWICK, RI 02886

P: 401-822-1300; F: 401-828-0433

SITE OWNER

TOWN OF SMITHFIELD
64 FARNUM PIKE
ESMOND, RI 02917

P: 401-233-1041; F: 401-233-1075

ENGINEER



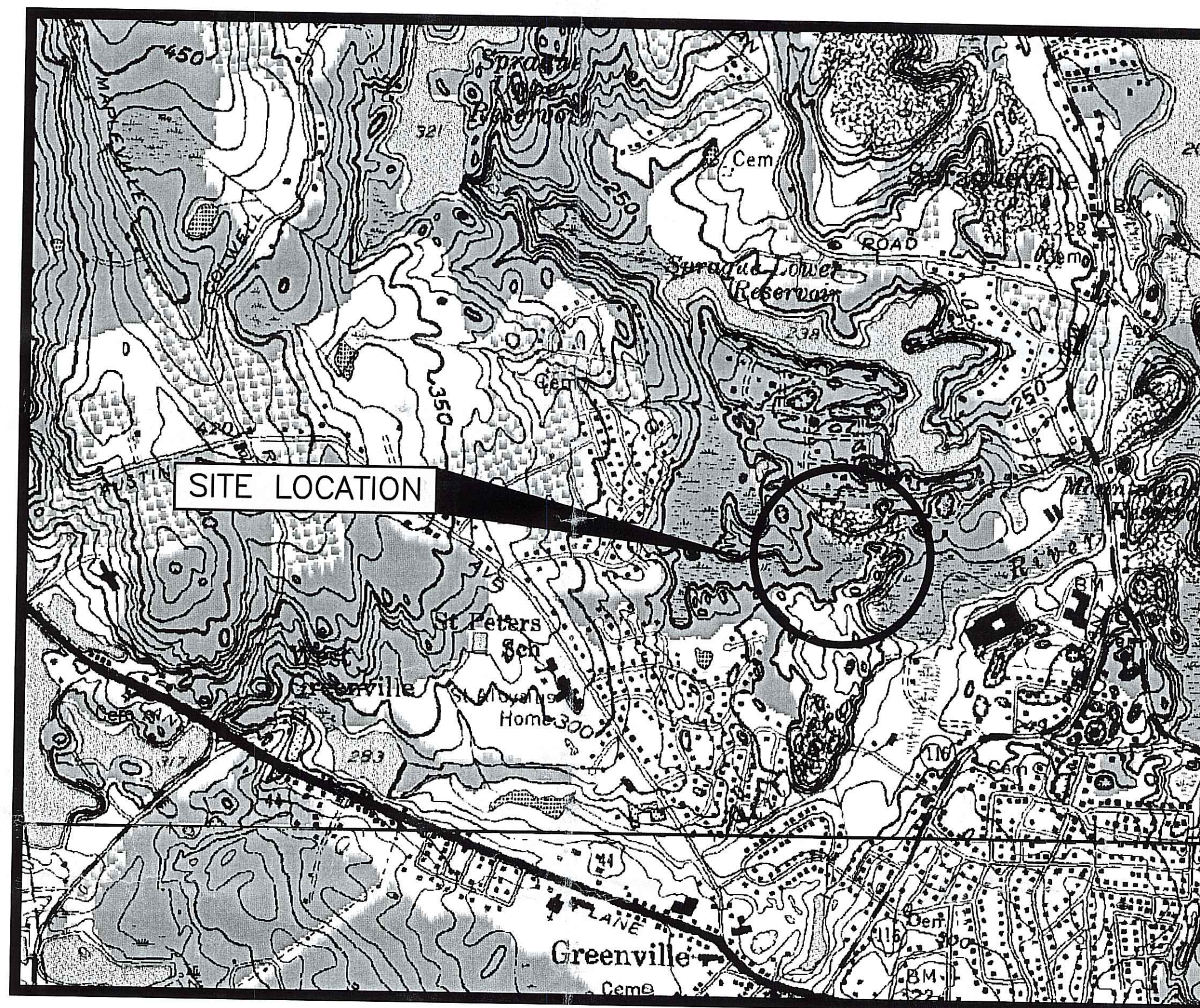
FUSS & O'NEILL, INC
THE FOUNDRY CORPORATE OFFICE CENTER
275 PROMENADE STREET, SUITE 350
PROVIDENCE, RI 02908

P: 401-861-3070; F: 401-861-3081

WETLAND BIOLOGIST

NATURAL RESOURCE SERVICES, INC.
1910 VISTORY HIGHWAY, P.O. BOX 311
HARRISVILLE, RI 02830

P: 401-568-7390; F: 401-568-7490



LOCATION MAP
SCALE: 1"=1000'

PLANS PREPARED FOR:
NATURAL RESOURCE CONSERVATION SERVICES
60 QUAKER LANE, SUITE 46
WARWICK, RI 02886

PLANS PREPARED BY:



FUSS & O'NEILL
Disciplines to Deliver

275 PROMENADE STREET, SUITE 350, PROVIDENCE, RI 02908
401.861.3070 www.FossO.com

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS PLAN
BEARS THE LIVE SIGNATURE AND SEAL OF THE UNDERSIGNED.

DEAN E. AUDET, P.E.

LICENSE NO. 7589

SHEET INDEX

SHEET NO.	SHEET TITLE
G-001	COVER SHEET
C-101	SITE PLAN
C-501	DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 27 2007, FILE # 07-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Justin Wenzel

JUL - 2 2007

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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PROJ. No.: 20051040.B11
DATE: JANUARY 2007

G-001

RIDEM COPY

JUN 21 2007

JUN 21 2007

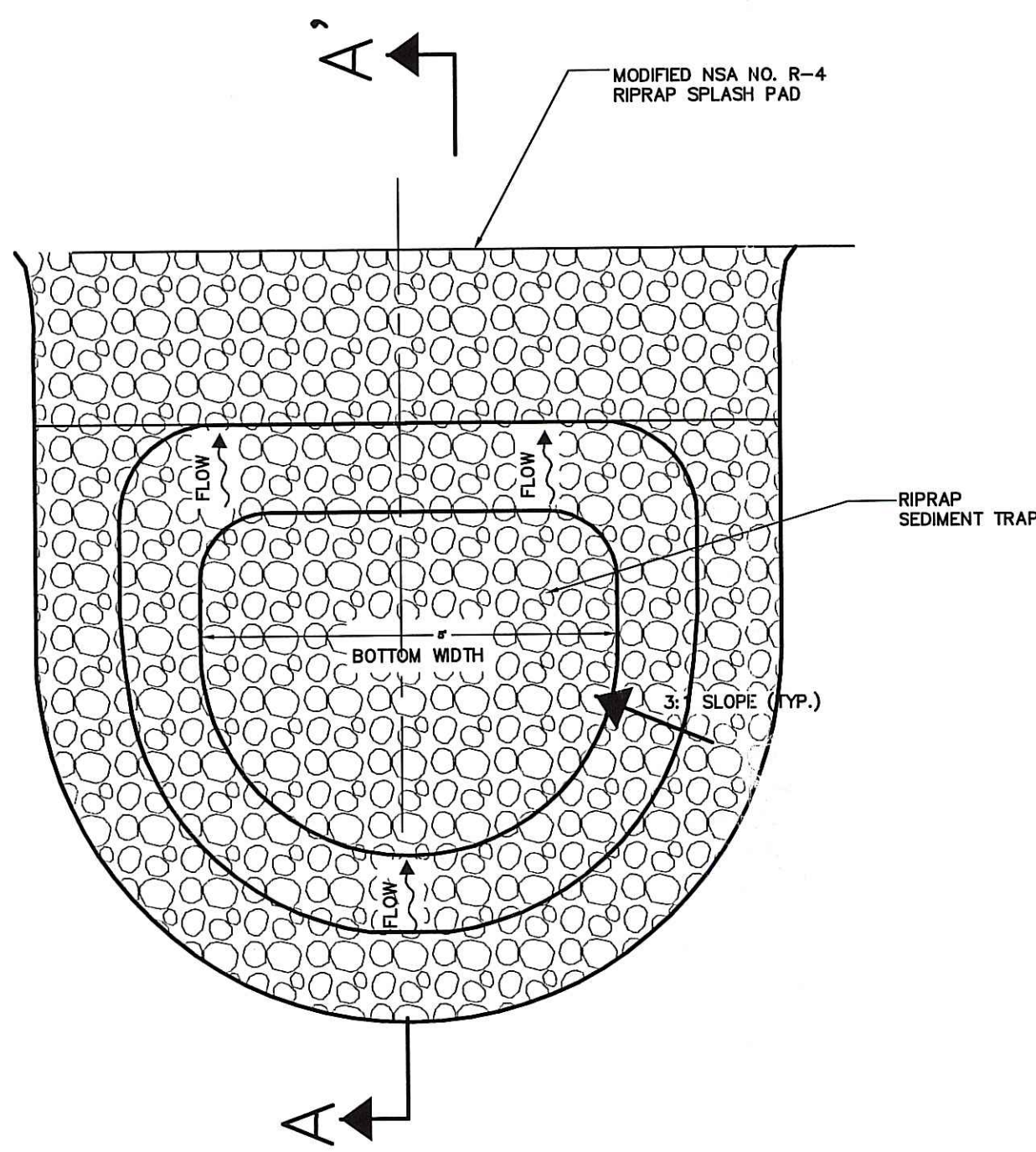
EROSION & SEDIMENT CONTROL NOTES

- Erosion and sediment control measures will be installed prior to stump removal and construction including before construction traffic into and out of project area begins. Stabilization of all eroded and soil stockpile areas will be initiated and maintained during all phases of construction.
- All erosion and sediment control measures will be constructed in accordance with standards and specifications of the Rhode Island Soil Erosion and Sediment Control Handbook. All erosion control measures are to be maintained and upgraded as required to achieve proper sediment control during construction and until stable vegetation is established.
- Additional control measures will be installed during the construction period, if deemed necessary by the Owner or Agents of the Owner.
- The Contractor shall establish an erosion control line (haybale check or filter fabric) prior to work. Stabilization of slopes in fill areas (using mulch or grass) shall be initiated within twenty-one (21) days of commencement of fill installation.
- Sediment removed from control structures will be disposed of in a manner which is consistent with the intent of this plan. All silt fence retaining sediment over 1/2 their height shall have the sediment removed and all damaged erosion controls removed and replaced.
- Contractor will be assigned the responsibility for implementing these erosion and sediment control requirements. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, and notifying the proper agency of any transfer of this responsibility.
- Stockpiles of soil shall be surrounded by a sediment barrier. Soil stockpiles to be left bare for more than fourteen (14) days shall be stabilized with temporary vegetation or mulch. If soil stockpiles are to remain for more than sixty (60) days, filter fabric shall be used in place of haybales. Side slopes shall not exceed 2:1.
- The Contractor shall be responsible to control dust and wind erosion throughout the life of the Contract. Dust control shall include, but is not limited to, sprinkling of water on exposed soils and haul roads. Contractor shall control dust to prevent a hazard to traffic on adjacent roadways.
- If final grading is to be delayed for more than fourteen (14) days after land disturbances cease and work will not resume within twenty-one (21) days, temporary vegetation or mulch shall be used to stabilize soils.
- The site access corridor shall be stabilized during construction by placement of erosion and sedimentation controls include silt fence along down-gradient perimeters. Ruts and other disturbances from work and equipment access shall be removed to restore original lines, grades and flow patterns. Corridor shall be seeded and covered with erosion control blanketing to establish a stable vegetative cover.
- The Contractor shall verify in the field that erosion and sediment controls are properly installed, shall make inspection of such facilities not less frequently than weekly and within forty-eight (48) hours of any significant rainfall, and shall, by written report, inform the Owner not less frequently than weekly and of observations, maintenance, and corrective activities undertaken.
- Where dewatering is necessary, there shall not be a discharge directly into wetlands or watercourses. Proper methods and devices shall be utilized to the extent permitted by law, such as pumping water into a temporary sedimentation sump, providing surge protection at the inlet and the outlet of pumps, or floating the intake of the pump, or other methods to minimize and retain the suspended solids. If a pumping operation is causing turbidity problems, said operation shall cease until such time as feasible means of controlling turbidity area determined and implemented.

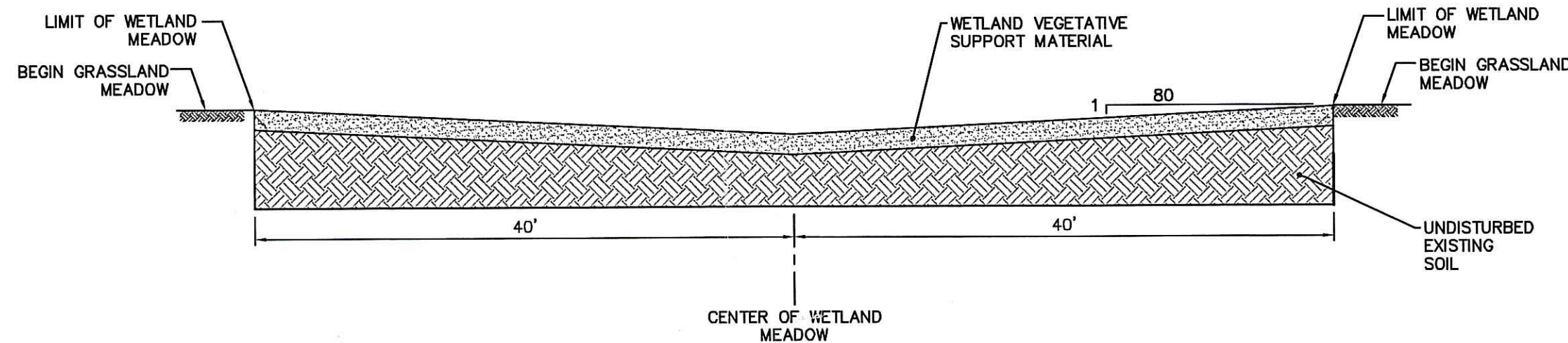
INVASIVE VEGETATION MANAGEMENT NOTES

The Contractor shall prepare a manual to be submitted to the construction Engineer for review to demonstrate conformance with specification requirements in the Project Manual which include, at a minimum, the following:

- Schedule for inspections to specify dates within seasonal periods that respective species should be identified and addressed (by manual removal or herbicides, as applicable).
- Identification materials (descriptions, photos, etc.) to assist persons in visually identifying species of concern that should be addressed.
- Specific control methods to address respective invasive species. These may include specific methods to manually remove plants under controlled conditions or the application of herbicides specifically formulated for targeted species. Two herbicides that are recommended for such use include (Rodeo? and Habitat?). The manual will include specific instructions for applying the accepted herbicides.
- Instructions for disposing removed biomass and restoring disturbed areas to promote desired vegetation.
- Forms and instructions for record-keeping to document removal/control practices (dates, descriptions and locations of activities, types of herbicides and application rates if used, etc.)



ENERGY DISSIPATOR
NOT TO SCALE



TYPICAL WETLAND MEADOW CROSS-SECTION

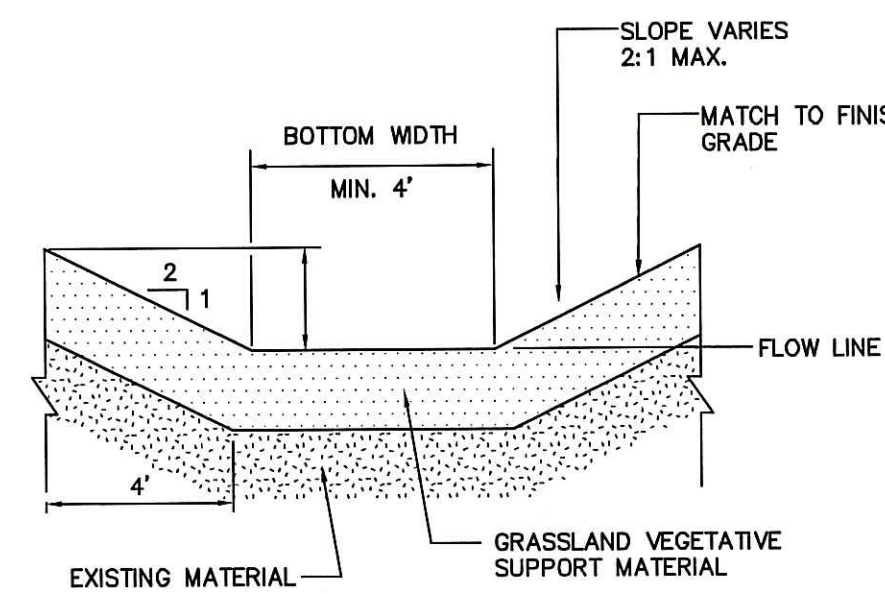
SCALE: HOR: 1" = 10'
VER: 1" = 5'

NOTES:

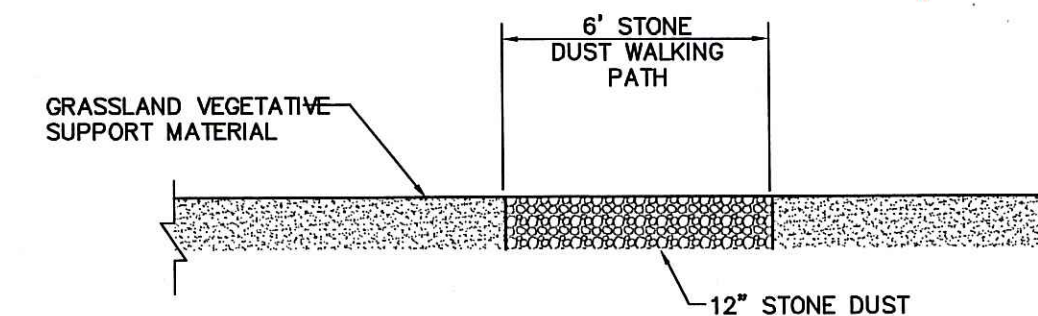
- WETLAND VEGETATIVE SUPPORT MATERIAL: 4" OF BIOSOLIDS COMPOST OR ORGANIC TOPSOIL BLENDED WITH 6" OF EXISTING SAND
- GRASSLAND VEGETATIVE SUPPORT MATERIAL: 2" OF BIOSOLIDS, COMPOST OR ORGANIC TOPSOIL BLENDED WITH 6" OF EXISTING SAND

PER RIDEM:
** Use of Biosolids is not authorized.*

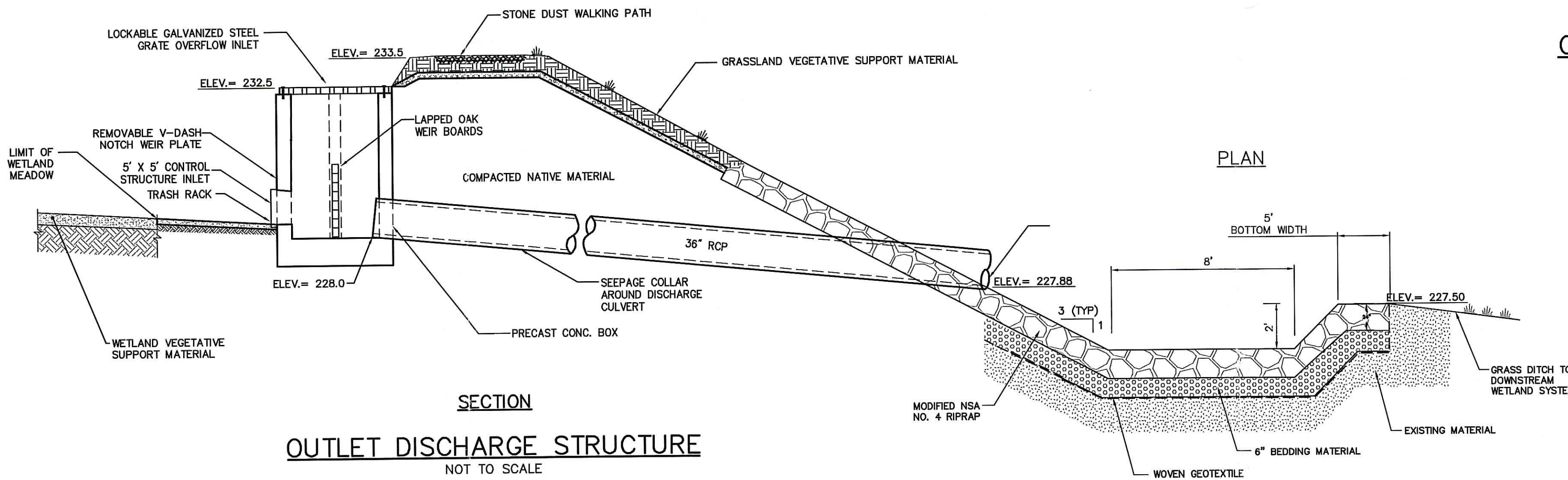
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Smarter Work



GRASS DITCH
NOT TO SCALE

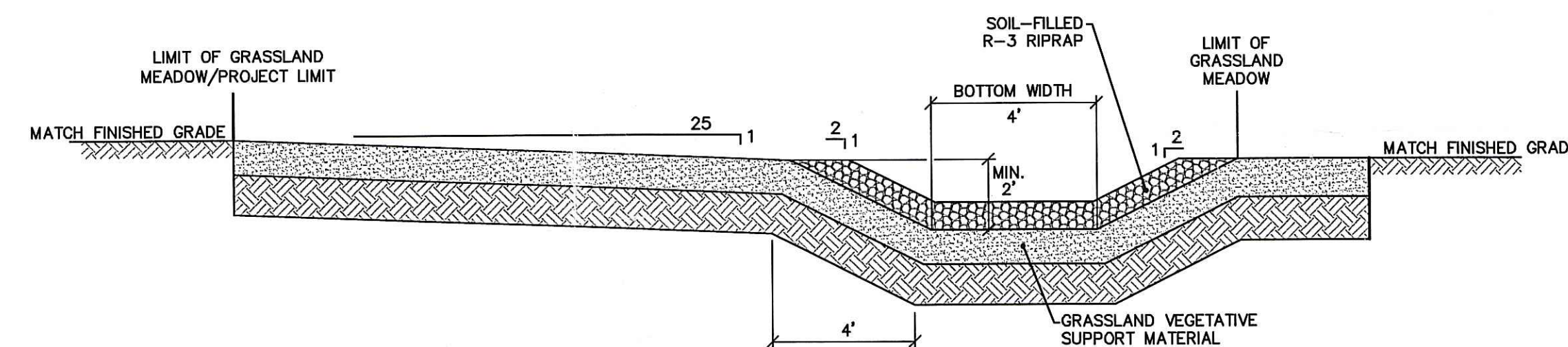


STONE DUST WALKING PATH
NOT TO SCALE



OUTLET DISCHARGE STRUCTURE
NOT TO SCALE

ENERGY DISSIPATOR
NOT TO SCALE



TYPICAL GRASSLAND MEADOW CROSS-SECTION
NOT TO SCALE

PRELIMINARY

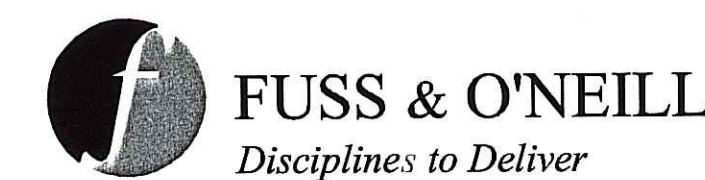
JUL - 2 2007

No.	DATE	DESCRIPTION	BY
1.			

PROJ. MANAGER:	
CHIEF DESIGNER:	
REVIEWED BY:	DATE

SEAL	SEAL
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SCALE:	HORZ.: AS NOTED
	VERT.:
DATUM:	
	HORZ.:
	VERT.:
10 5 0 10	
GRAPHIC SCALE	



275 PROMENADE STREET, SUITE 350, PROVIDENCE, RI 02908
401.861.3070 www.FandO.com

TOWN OF SMITHFIELD
CONSTRUCTION DETAILS
DEERFIELD PARK WETLAND CREATION
SMITHFIELD RHODE ISLAND

PROJ. No.: 20051040.B11
DATE: MAY 2007

C-501

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