

SAFETY REGULATIONS

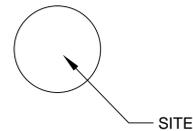
ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (MOSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS

LANDOWNER/PROJECT

410 - GRADE STABILIZATION STRUCTURE

468 - LINED WATERWAY OR OUTLET

(DISTRICT SOIL CONSERVATION DISTRICT)



THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER. CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

VICINITY MAP
N.T.S.



**Know what's below.
Call before you dig.**

The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities

GENERAL NOTES:

- PLEASE CONTACT THE DISTRICT SOIL CONSERVATION DISTRICT AT LEAST 3 DAYS PRIOR TO CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING @ PHONE #
- EXISTING GULLY MUST BE FILLED AND TAMPED IN 4-6" LIFTS
- A CONSERVATION TECHNICIAN SHALL VERIFY CUT/GRADE STAKES AT THE CONTRACTORS REQUEST
- A CONSERVATION TECHNICIAN MUST BE PRESENT AT THE TIME OF PIPE INSTALLATION, IF REQUIRED

AS-BUILT STATEMENT

THE CONSERVATION PRACTICE(S) MEETS OR EXCEEDS NRCS STANDARDS AND SPECIFICATIONS

INSPECTED BY	SIGNATURE _____	DATE _____
CONSTRUCTION APPROVAL	SIGNATURE _____	DATE _____
VERIFIED DISTRICT CONSERVATIONIST	SIGNATURE _____	DATE _____

MM/YY	Designed	Drawn	Checked	Approved _____ Date _____
LANDOWNER	410 GRADE STABILIZATION STRUCTURE TRACT City, Maryland			Title _____
United States Department of Agriculture	Maryland Department of Agriculture			Job _____
USDA	Natural Resources Conservation Service			Class _____
REVISIONS	Date	Description	Approved	
File No.	* .DWG			
Sheet	1	of	3	

MATERIALS LIST

OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE _____ DISTRICT SOIL CONSERVATION DISTRICT, AND I UNDERSTAND THE CONTENTS. ALL CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND SPECIFICATIONS. I FURTHER UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE INSPECTION OF THIS OFFICE.

OWNER'S SIGNATURE _____ DATE _____

CONTRACTOR'S SIGNATURE _____ DATE _____

CONSTRUCTION NOTIFICATION
The Contractor/Owner is to notify the _____ DISTRICT SOIL CONSERVATION DISTRICT at least 72 hours prior to construction to facilitate any scheduling, layout, or preliminary mobilization necessary to ensure proper construction inspection to enable appropriate certification of the project.

It is the Landowner's responsibility to obtain all County, State, and Federal permits that may be needed, and to maintain this structure and related regulations.

PLAN VIEW

PROFILES/CROSS SECTIONS

File No.
*.DWG

Sheet 2 of 3

REVISIONS	
Date	Description

Approved



United States
Department of
Agriculture

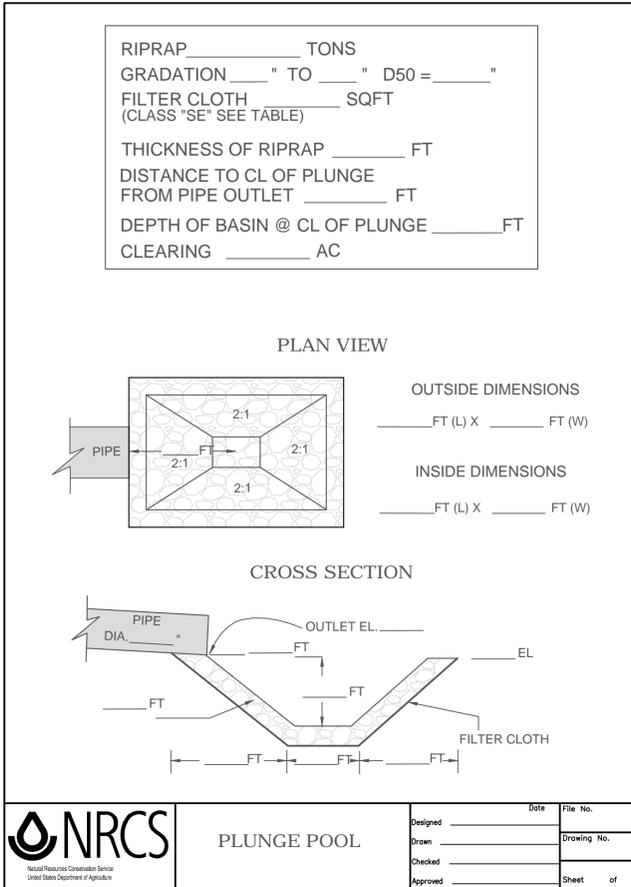
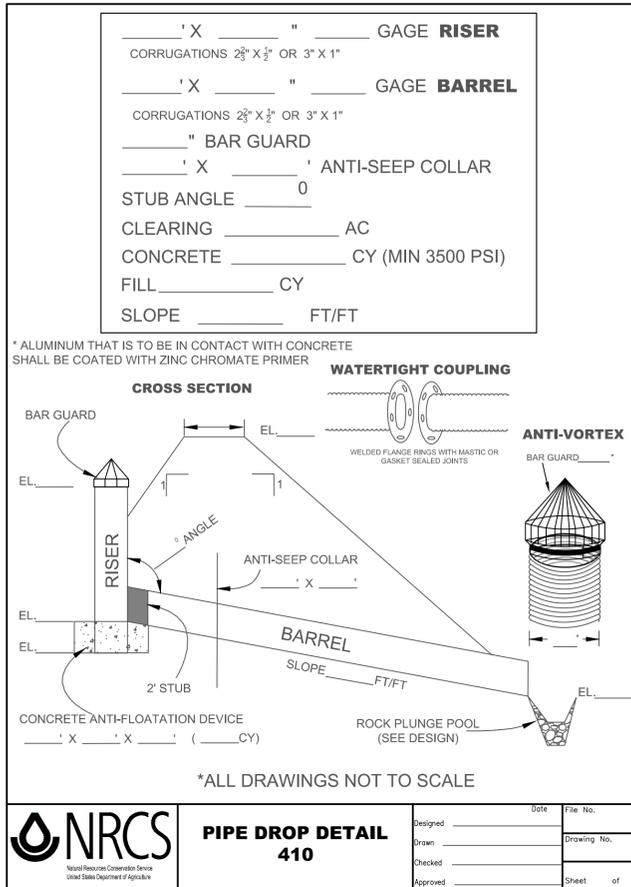
**Natural Resources
Conservation Service**

LANDOWNER
410 GRADE STABILIZATION STRUCTURE
TRACT
City, Maryland

Maryland Department of Agriculture
DISTRICT Soil Conservation District

Approved _____ Date _____
Title _____ Job Class _____

Designed _____ MM/YY
Drawn _____
Checked _____



STATE HIGHWAY ADMINISTRATION GEOTEXTILE REQUIREMENTS

Maryland Application Class	Type of Geotextile	Grab Strength Lb D 4632	Puncture Strength Lb D 4833	Permittivity Sec ⁻¹	Apparent Opening Size Max Mm D 4751	Trapezoid Tear Strength Lb D4533
SD	NONWOVEN	100	55	0.50	0.43	55
TYPE I	WOVEN MONOFILAMENT	250	90	0.50	0.43	90
	NONWOVEN	100	55	0.20	0.25	55
TYPE II	WOVEN MONOFILAMENT	250	90	0.20	0.25	90
	NONWOVEN	200	80	0.70	0.43	80
FE	WOVEN MONOFILAMENT	250	90	0.70	0.43	90
	NONWOVEN	200	80	0.20	0.25	80
TYPE I	WOVEN MONOFILAMENT	250	90	0.20	0.25	90
	NONWOVEN	200	80	0.10	0.22	80
TYPE III	WOVEN	250	90	0.10	0.22	90
	NONWOVEN	200	80	0.20	0.30	80
SE	WOVEN	250	90	0.20	0.30	90
ST	WOVEN	300*	110	0.05	0.15**	110
F	WOVEN	100	-	0.05	0.60	-
E	NONWOVEN	90	30	0.05	0.30	30

Note 1: All property values are based on minimum average roll values in the weakest principle direction, except for apparent opening size.
 Note 2: The ultraviolet stability shall be 50 percent after 500 hours of exposure for all classes, except Class F, which shall be 70 percent (D 4355).
 * Minimum 15 percent elongation.
 ** This is a minimum apparent opening size, not a maximum.

LANDOWNER TRACT _____ PRACTICE(S) _____

TOTAL AREA	AREA 1	AREA 2	AREA 3

MATERIALS/RATE	AMOUNT PLANNED	AMOUNT APPLIED	AMOUNT PLANNED	AMOUNT APPLIED	AMOUNT PLANNED	AMOUNT APPLIED
FERTILIZER 10-20-20 500LBS/AC						
LIME - 2TONS/AC DOLOMITIC SEED MIXTURE (SEE BELOW) MULCH 2 TONS/AC						

ENTER KINDS AND AMOUNT OF SEED BELOW NOTE: INOCULATE ALL LEGUMES

AREA 1 NRCS SEED MIX #	AREA 2 NRCS SEED MIX #	AREA 3 NRCS SEED MIX #

SITE PREPARATION AND OTHER PERTINENT INFORMATION: DISK ALL DISTURBED AREAS TO A DEPTH OF 4-6" CULTIPACK AFTER SEEDING

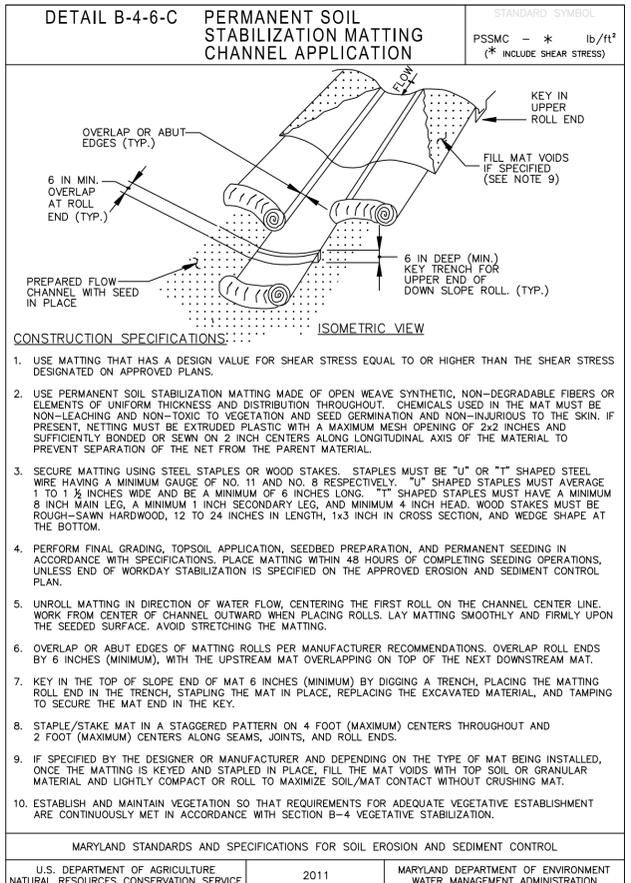
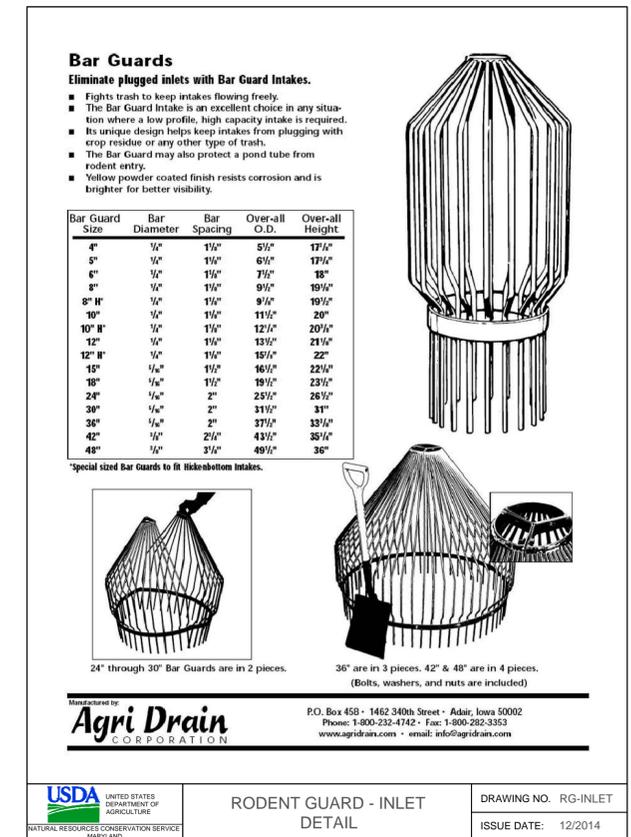
SEEDING DATES
 SPRING: _____
 FALL: _____

PLAN APPROVED BY: _____ CHECKED FOR TECHNICAL COMPLIANCE BY: _____

TITLE	DATE	TITLE	DATE

USDA UNITED STATES DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE MARYLAND

SEEDING DRAWING NO. S-1.0
 ISSUE DATE: 7/2014



OPERATION AND MAINTENANCE SCHEDULE FOR LINED WATERWAY OR OUTLET
 10 year maintenance life

- Mow, fertilize and lime to maintain flow capacity, grass height of 6-8 inches, plant density and to promote vigorous growth on the sides of the lined waterway.
- Inspect at least once a year and after major storms for areas that are eroding and need re-seeding. Repair problems immediately. Fill in and reseed, following original seeding specifications. Remove sediment deposits to maintain capacity of lined waterways.
- Pavement or lining should be maintained as to prevent undermining and deterioration. Trees should be removed next pavements, as roots can cause uplift damage. Lining damage by machinery or erosion must be repaired promptly.
- Repairs should be made as soon as possible. Repairs should be made to return the structure to the same condition as it was designed.
- Avoid using waterways as turn-rows during tillage and cultivation practices.
- Prescribed burning and mowing may be appropriate to enhance wildlife values, but must be conducted to avoid peak nesting seasons and reduce winter cover.
- Control noxious weeds.
- Don't use as a field road.
- Avoid crossing with heavy equipment.

OPERATION AND MAINTENANCE SCHEDULE FOR GRADE STABILIZATION STRUCTURE
 10 year maintenance life

- Removal of any blockage of trash and debris that could affect flows through the structure.
- Mow, fertilize and lime to maintain flow capacity, grass height of 6-8 inches, plant density and to promote vigorous growth.
- Inspect at least once a year and after major storms for areas that are eroding and need re-seeding. Repair problems immediately. Fill in and reseed, following original seeding specifications.
- Maintain the width of grassed area when tilling and planting adjacent to structure.
- Do not use grassed area or top of berm as a road. Vehicle tire tracks can form gullies.
- Check material used in the structure for deterioration or failure. Includes rock used for outlet protection.
- Repairs should be made as soon as possible. Repairs should be made to return the structure to the same condition as it was designed.
- Inspect pipe structures annually, secure anti-vortex devices, trash racks and/or rodent guards in place and make sure they are functioning properly.

MM/YY _____
 Designed _____ Drawn _____ Checked _____

LANDOWNER TRACT _____

410 GRADE STABILIZATION STRUCTURE City, Maryland

Approved _____ Date _____ Title _____
 Job Class _____

Maryland Department of Agriculture
 DISTRICT Soil Conservation District

United States Department of Agriculture
 Natural Resources Conservation Service

REVISIONS

Date	Description

Approved _____

File No. *DWG

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