

APPENDIX B — WORKSHEETS & EXHIBITS

A **worksheet** provides the designer a representation of a measure that allows for input of specific design criteria. The plan designer will be required to assess field conditions and apply engineering principles to determine dimensions and specifications. An **exhibit** is a representative view of a measure. An exhibit often includes standardized dimensions and specifications. Several exhibits are only a representative view of the measure, and will require the designer to assess field conditions and input dimensions and specifications for the measure. These exhibits have been identified with a note.

Worksheet	Page
Temporary Construction Ingress/Egress Pad Plan View 5 Worksheet (Large Sites – Two Acres or Larger)	5
Temporary Construction Ingress/Egress Pad Cross-Section 7 View Worksheet (Large Sites – Two Acres or Larger)	7
Temporary Construction Ingress/Egress Pad Plan View 9 Worksheet (Small Sites – Less Than Two Acres)	9
Riprap Slope Protection Worksheet	11
Temporary Diversion Worksheet	13
Permanent Diversion Worksheet.....	15
Perimeter Diversion Dike Worksheet.....	17
Water Bar Worksheet	19
Rock Check Dam Worksheet	21
Temporary Slope Drain Worksheet.....	23
Grass-Lined Channel Worksheet.....	25
Riprap-Lined Channel Worksheet.....	27
Energy Dissipater Worksheet 1	29
Energy Dissipater Worksheet 2	31
Concrete Block Chute Worksheet	33
Excavated Drop Inlet Protection Worksheet.....	35
Temporary Sediment Trap Rock Dam Worksheet	37
Temporary Sediment Trap Outlet Worksheet	39

APPENDIX B — WORKSHEETS & EXHIBITS

Worksheet	Page
Temporary Dry Sediment Basin Earthen Dam/ Embankment Worksheet	41
Temporary Dry Sediment Basin Spillway Worksheet 1	43
Temporary Dry Sediment Basin Spillway Worksheet 2	45
Concrete Washout (Above Grade System) Worksheet	47
Concrete Washout (Below Grade System) Worksheet	49
Surface Roughening – Stair-Step Worksheet	51
Surface Roughening – Grooving Worksheet	53

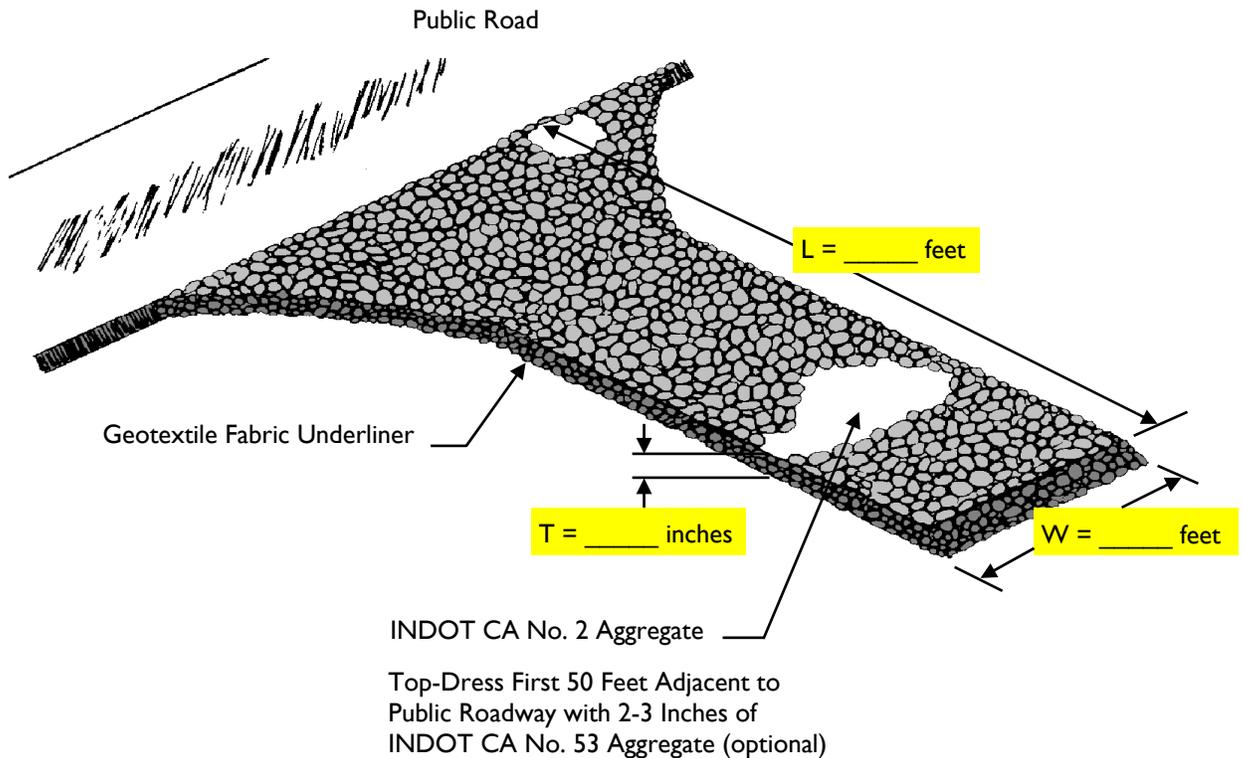
Exhibit	Page
Sod Exhibit 1	55
Perimeter Diversion Dike Exhibit 1	57
Water Bar Exhibit 1	59
Rock Check Dam Exhibit 1	61
Rock Check Dam Exhibit 2	63
Temporary Slope Drain Exhibit 1	65
Rock-Lined Chute Exhibit 1	67
(requires inclusion of dimensions and specifications)	
Reinforced Vegetated Chute Exhibit 1	69
(requires inclusion of dimensions and specifications)	
Excavated Drop Inlet Protection Exhibit 1	71
Gravel Donut Drop Inlet Protection Exhibit 1	73
Gravel Donut Drop Inlet Protection Exhibit 2	75
Geotextile Fabric Drop Inlet Protection Exhibit 1	77
Geotextile Fabric Drop Inlet Protection Exhibit 2	79

APPENDIX B — WORKSHEETS & EXHIBITS

Exhibit	Page
Straw Bale Drop Inlet Protection Exhibit 1	81
Straw Bale Drop Inlet Protection Exhibit 2	83
Block & Gravel Drop Inlet Protection Exhibit 1	85
Block & Gravel Drop Inlet Protection Exhibit 2	87
Stone Bag Curb Inlet Protection Exhibit 1	89
Stone Bag Curb Inlet Protection Exhibit 2	91
Block & Gravel Curb Inlet Protection Exhibit 1	93
Block & Gravel Curb Inlet Protection Exhibit 2	95
Temporary Dry Sediment Basin Riser Pipe Exhibit 1	97
Silt Fence Exhibit 1	99
Silt Fence Exhibit 2	101
Silt Fence Exhibit 3	103
Straw Bale Dam Exhibit 1	105
Straw Bale Dam Exhibit 2	107
Straw Bale Dam Exhibit 3	109
Straw Bale Dam Exhibit 4	111
Temporary Stream Crossing – Bridges Exhibit 1	113
(requires inclusion of dimensions and specifications)	
Temporary Stream Crossing – Culverts Exhibit 1	115
(requires inclusion of dimensions and specifications)	
Temporary Stream Crossing – Fords Exhibit 1	117
(requires inclusion of dimensions and specifications)	
Temporary Stream Crossing – Fords Exhibit 2	119
(requires inclusion of dimensions and specifications)	

This page was intentionally left blank.

**Temporary Construction Ingress/Egress Pad
Plan View Worksheet
(large sites – two acres or larger)**



L = Ingress/Egress Pad Length
W = Ingress/Egress Pad Width
T = Aggregate Thickness

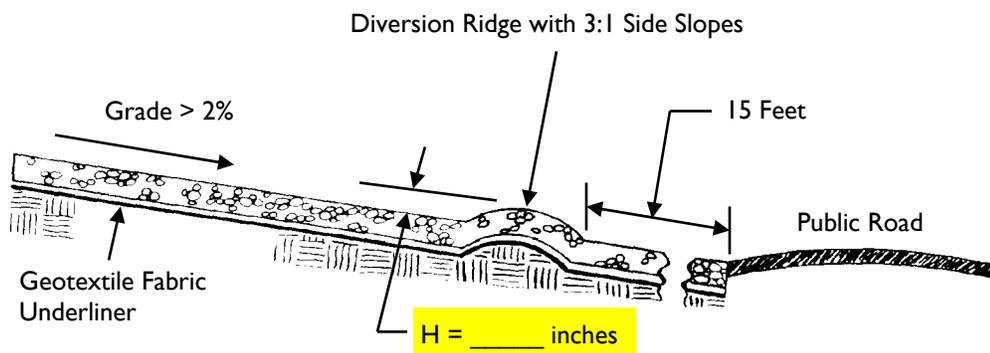
(Note: For minimum dimensions, see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 17

This page was intentionally left blank.

**Temporary Construction Ingress/Egress Pad
Cross-Section View Worksheet
(large sites two acres or larger)**



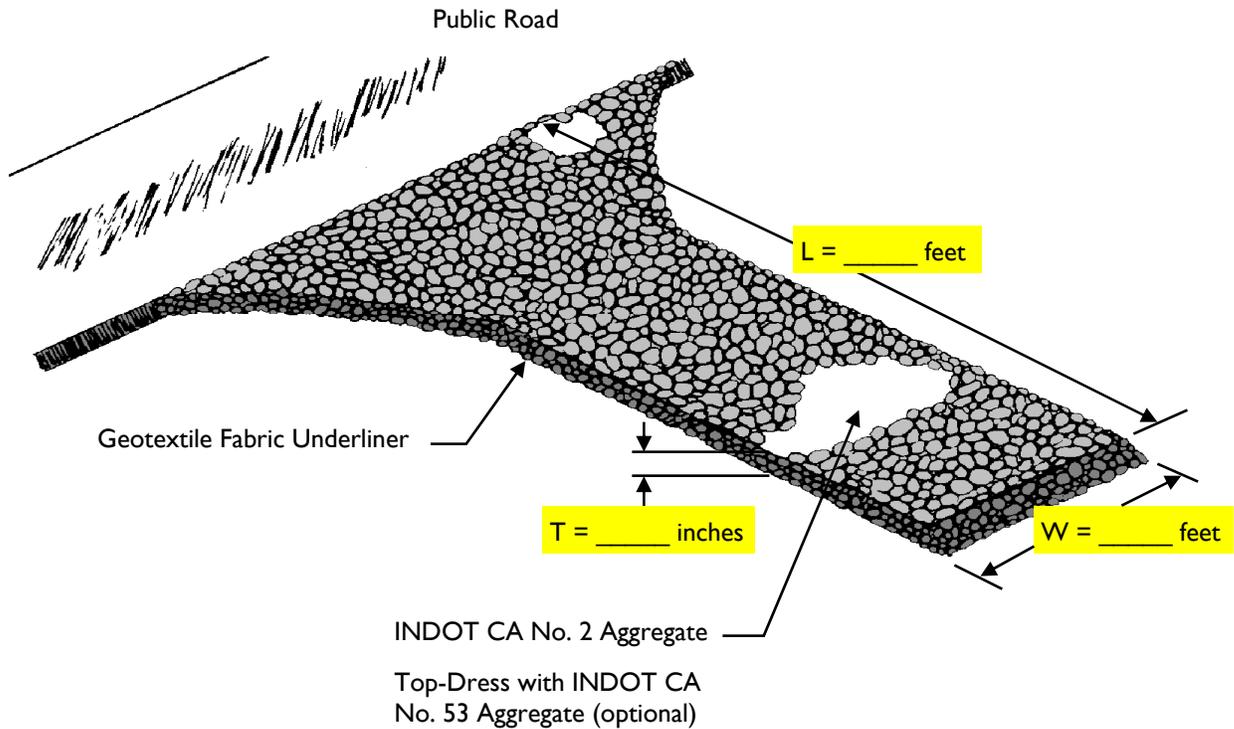
H = Height of Diversion Ridge
(Note: 8 inches minimum)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 17

This page was intentionally left blank.

**Temporary Construction Ingress/Egress Pad
Plan View Worksheet
(small sites – less than two acres)**



L = Ingress/Egress Pad Length
W = Ingress/Egress Pad Width
T = Aggregate Thickness

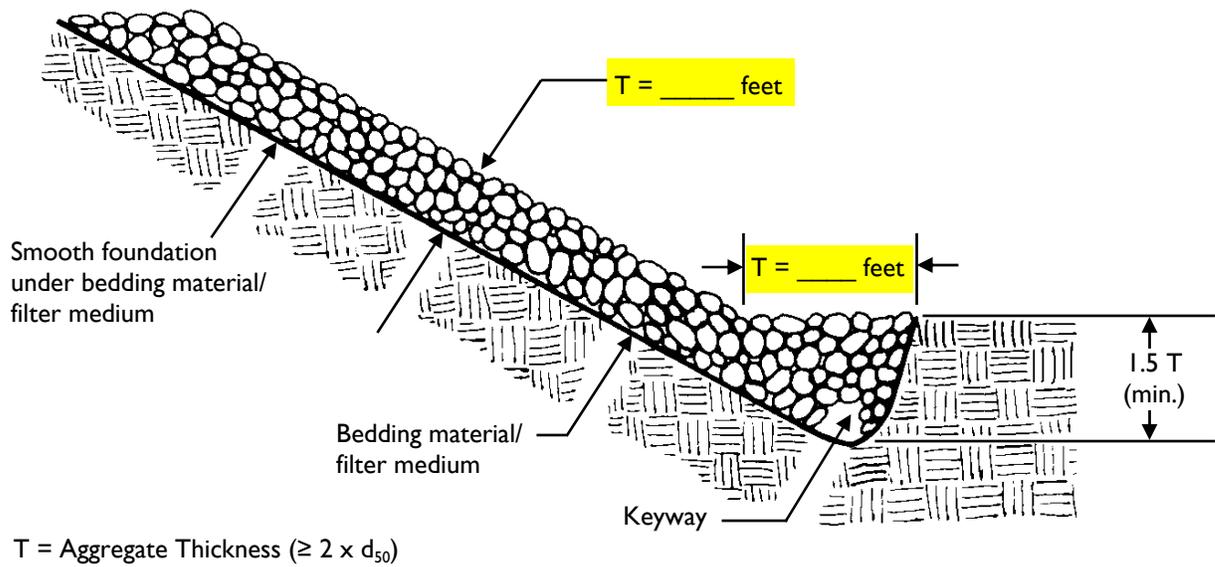
(Note: For minimum dimensions, see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 21

This page was intentionally left blank.

Riprap Slope Protection Worksheet

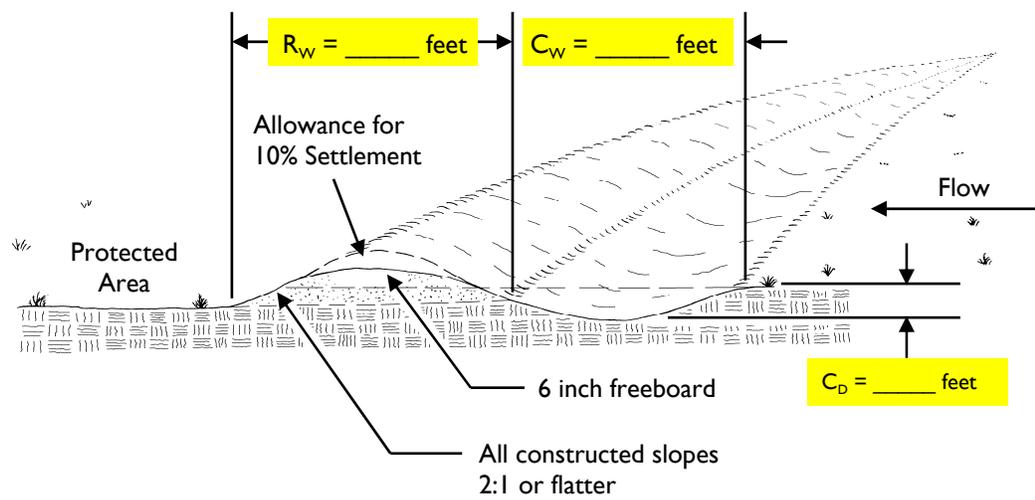


Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 69

This page was intentionally left blank.

Temporary Diversion Worksheet

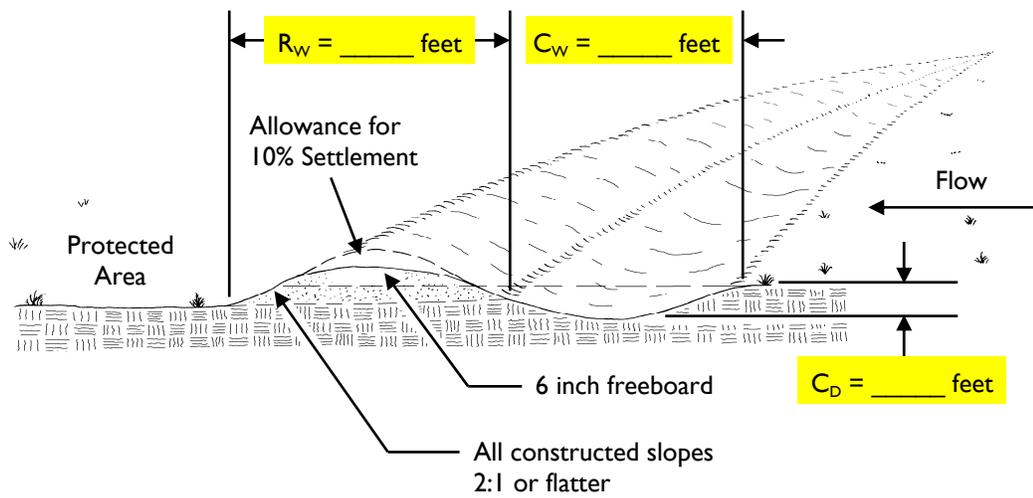


C_D = Channel Depth
 C_W = Channel Width
 R_W = Ridge Width

For information
on this measure,
see Chapter 7,
page 75

This page was intentionally left blank.

Permanent Diversion Worksheet

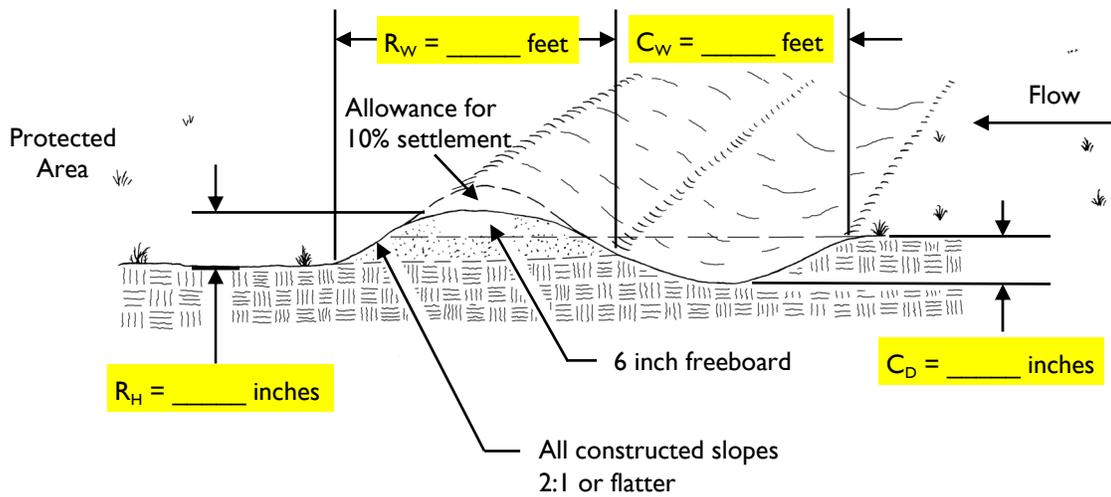


C_D = Channel Depth
 C_W = Channel Width
 R_W = Ridge Width

For information
on this measure,
see Chapter 7,
page 79

This page was intentionally left blank.

Perimeter Diversion Dike Worksheet



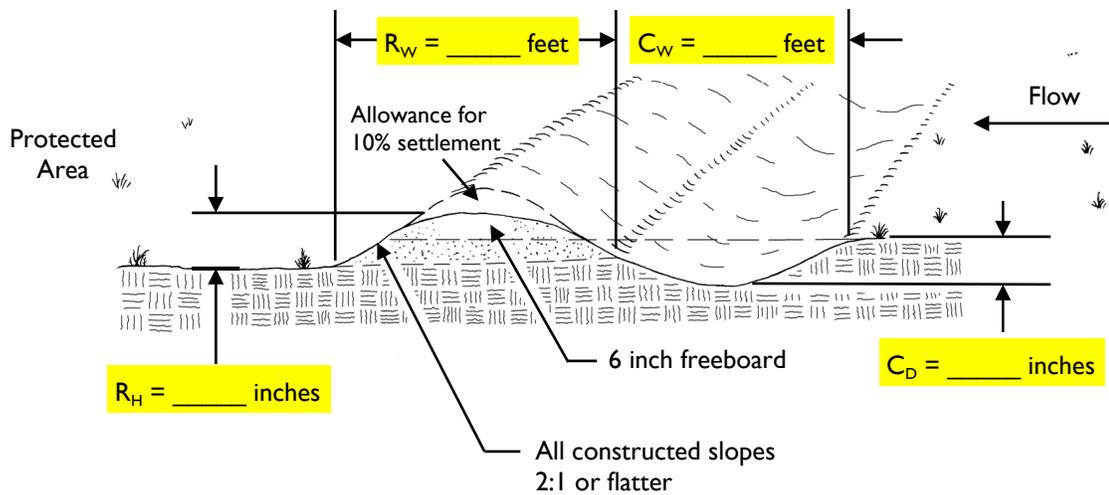
- R_H = Ridge Height
- R_w = Ridge Base Width
- C_D = Channel Depth
- C_w = Channel Top Width

Note: Drainage channel is optional.

For information
on this measure,
see Chapter 7,
page 83

This page was intentionally left blank.

Water Bar Worksheet



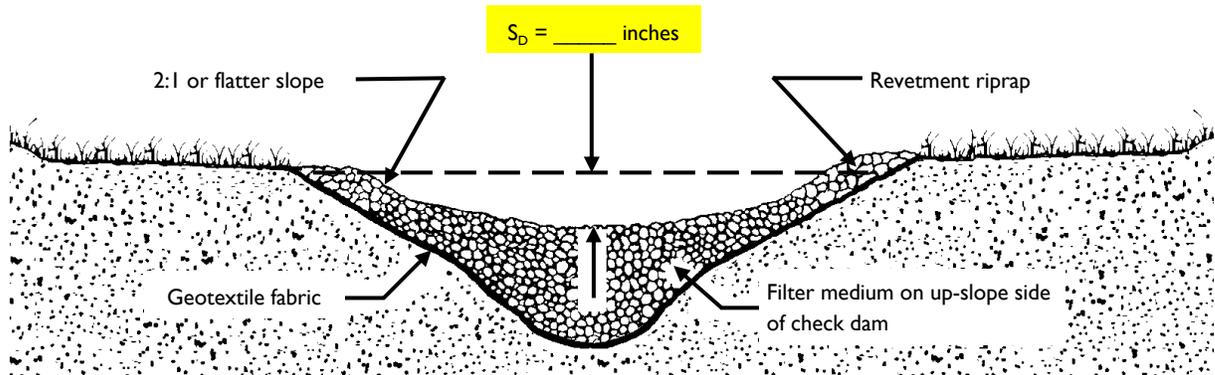
- R_H = Ridge Height
- R_W = Ridge Base Width
- C_D = Channel Depth
- C_W = Channel Top Width

Note: Drainage channel is optional.

For information on this measure, see Chapter 7, page 89

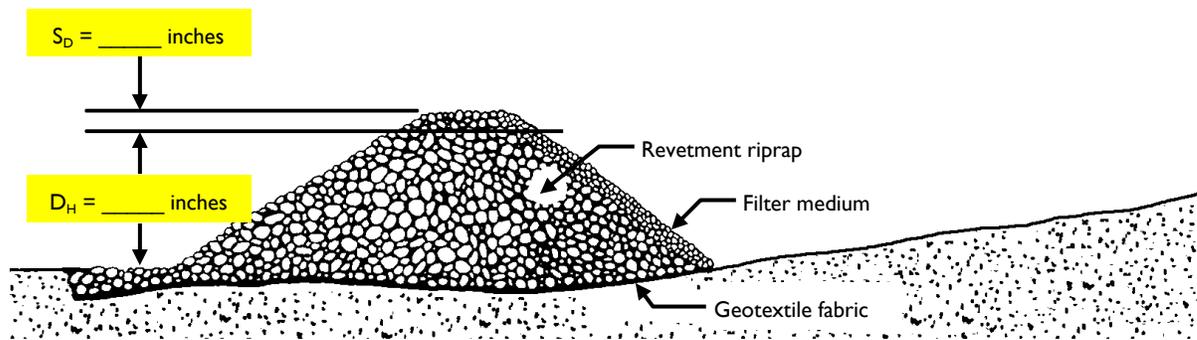
This page was intentionally left blank.

Rock Check Dam Worksheet



S_D = Spillway Depth

(NOTE: For minimum dimensions see the "Specifications" section of this measure.)



D_H = Dam Height

S_D = Spillway Depth

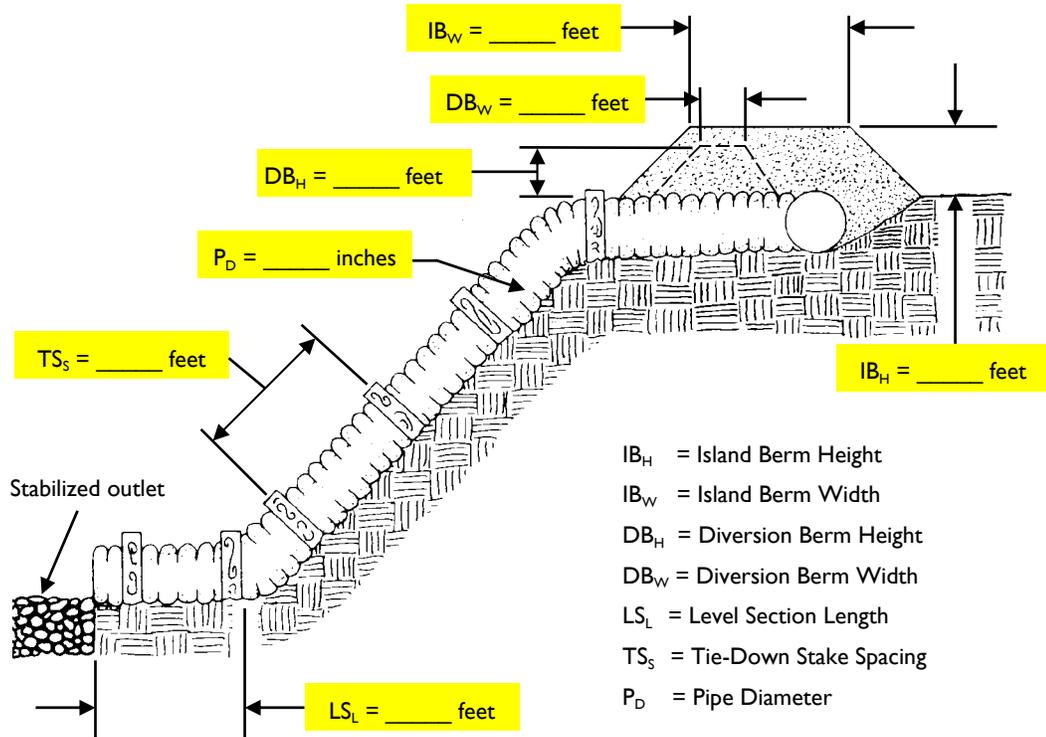
(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 97

This page was intentionally left blank.

Temporary Slope Drain Worksheet



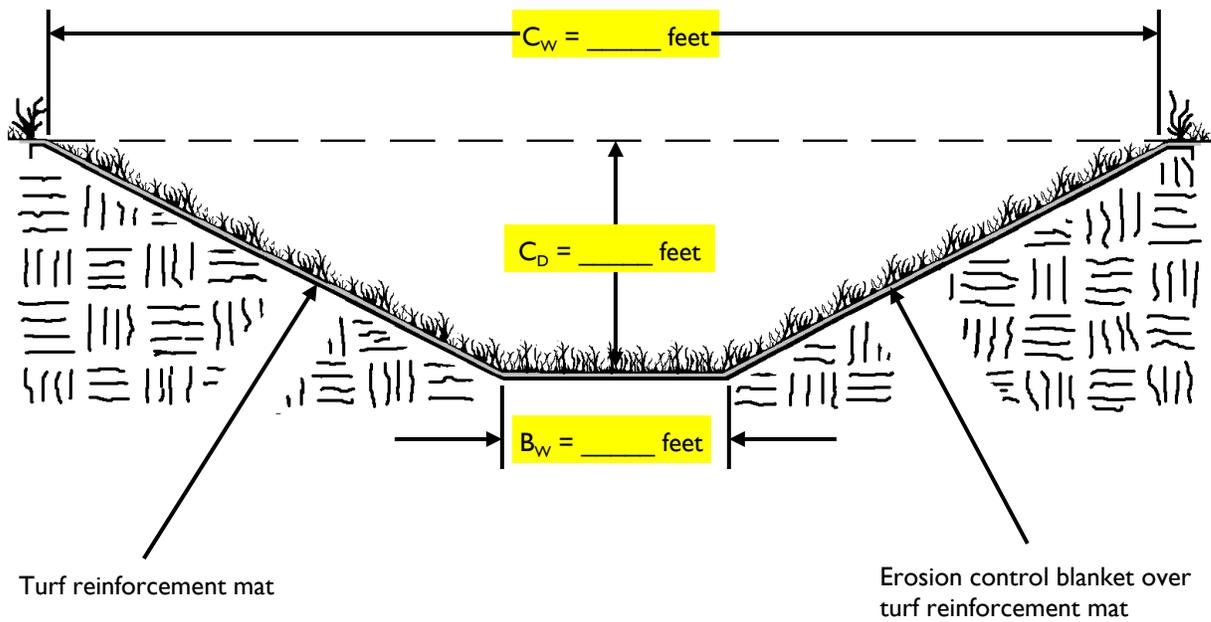
(Note: For minimum and maximum dimensions, see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 103

This page was intentionally left blank.

Grass-Lined Channel Worksheet



B_w = Designed Bottom Width of Channel

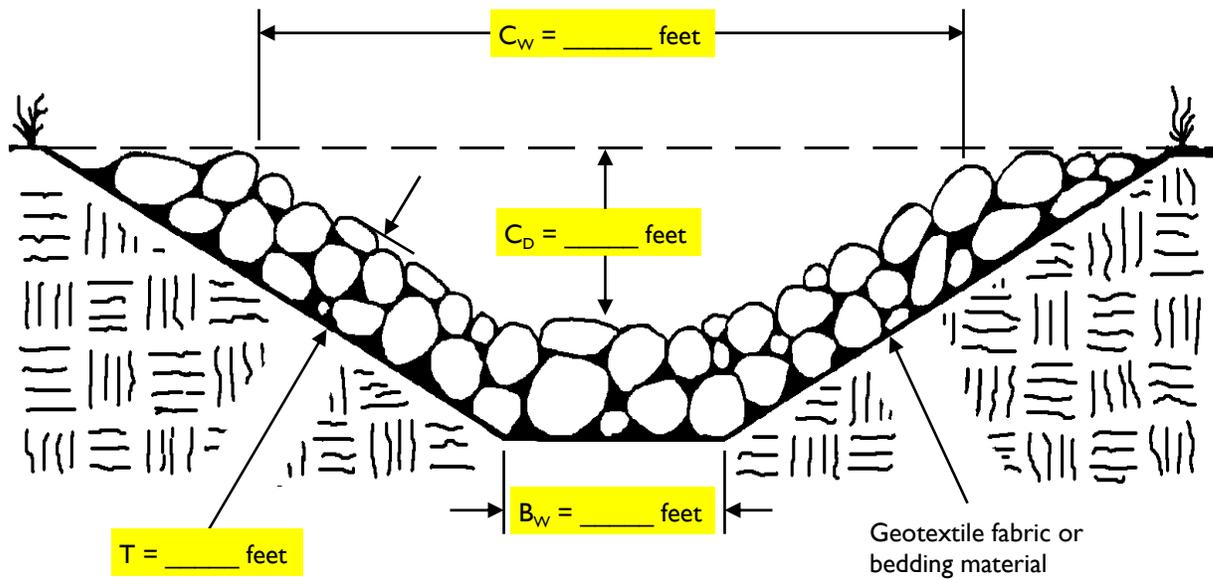
C_w = Designed Top Width of Channel

C_d = Designed Depth of Channel

For information
on this measure,
see Chapter 7,
page 111

This page was intentionally left blank.

Riprap-Lined Channel Worksheet



B_w = Designed Bottom Width of Channel

C_w = Designed Top Width of Channel

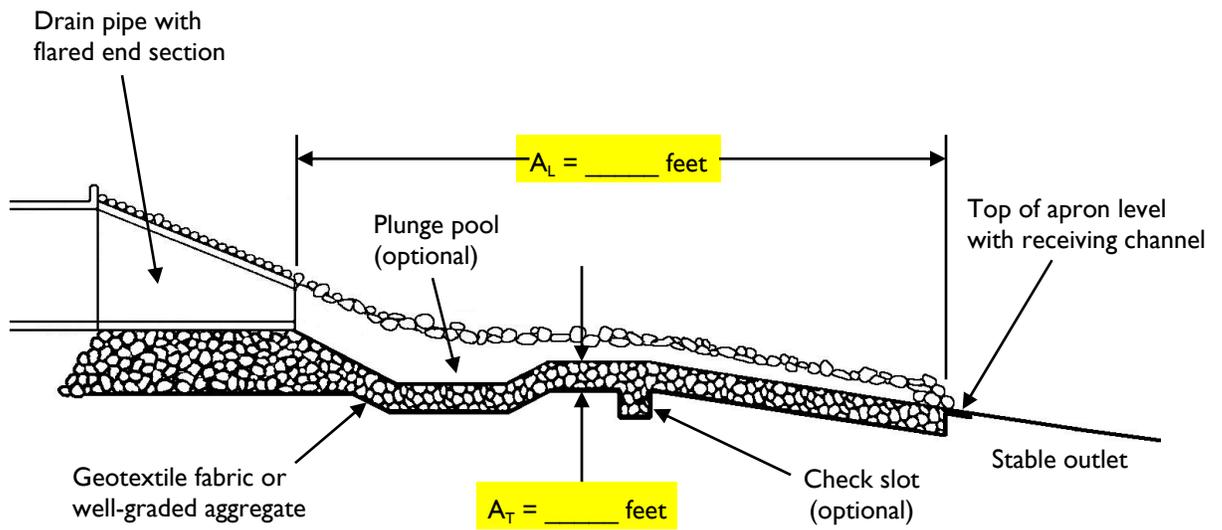
C_d = Designed Depth of Channel

T = Thickness of Riprap Layer

For information
on this measure,
see Chapter 7,
page 115

This page was intentionally left blank.

Energy Dissipater Worksheet 1



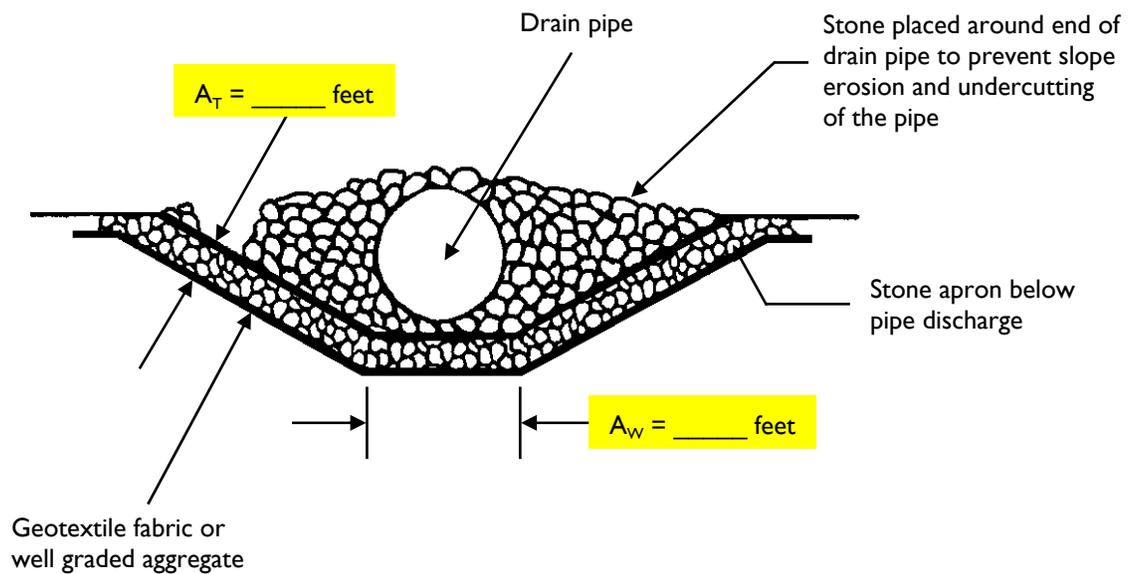
A_L = Apron Length

A_T = Apron Thickness

For information
on this measure,
see Chapter 7,
page 121

This page was intentionally left blank.

Energy Dissipater Worksheet 2



A_T = Apron Thickness

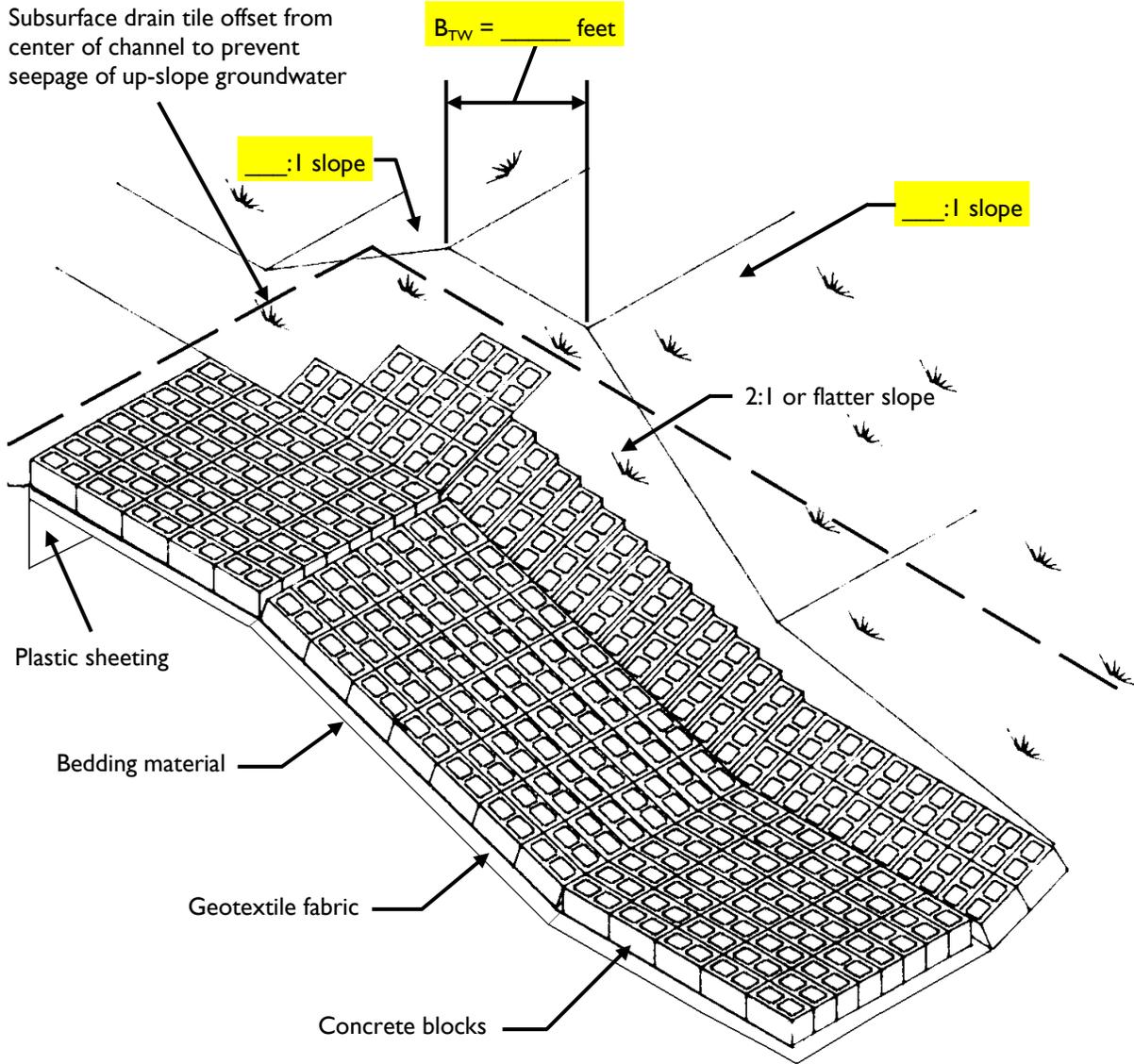
A_W = Apron Width

Note: A_W is the apron width at the narrow end of the apron.

For information
on this measure,
see Chapter 7,
page 121

This page was intentionally left blank.

Concrete Block Chute Worksheet



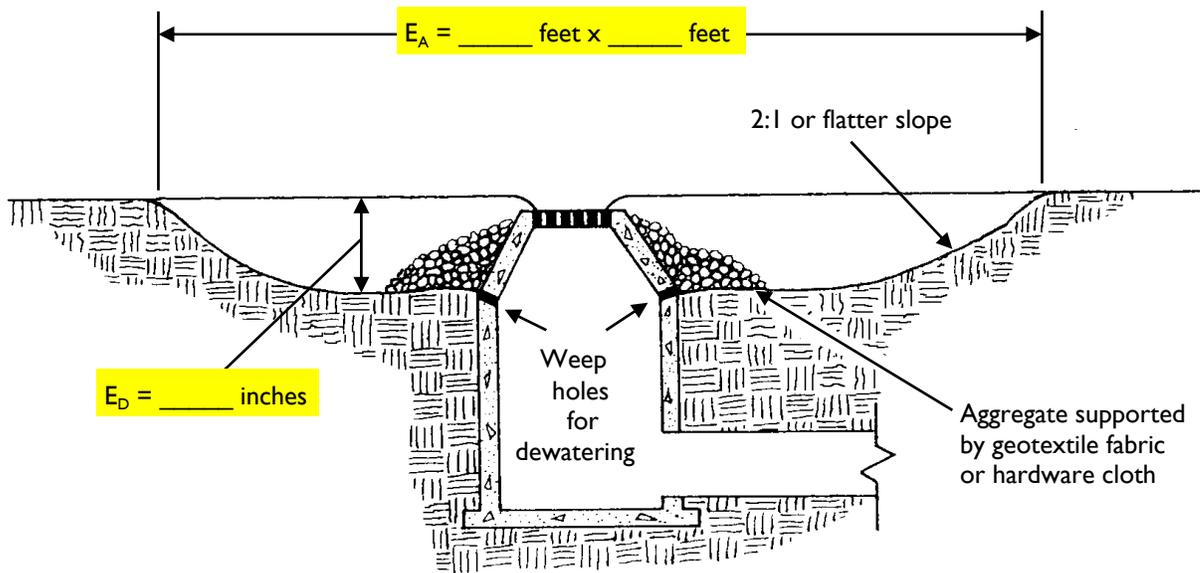
B_{TW} = Berm Top Width

Source: Adapted from U.S. Department of Agriculture,
Natural Resources Conservation Service

For information
on this measure,
see Chapter 7,
page 131

This page was intentionally left blank.

Excavated Drop Inlet Protection Worksheet



E_A = Excavated Area (as required)

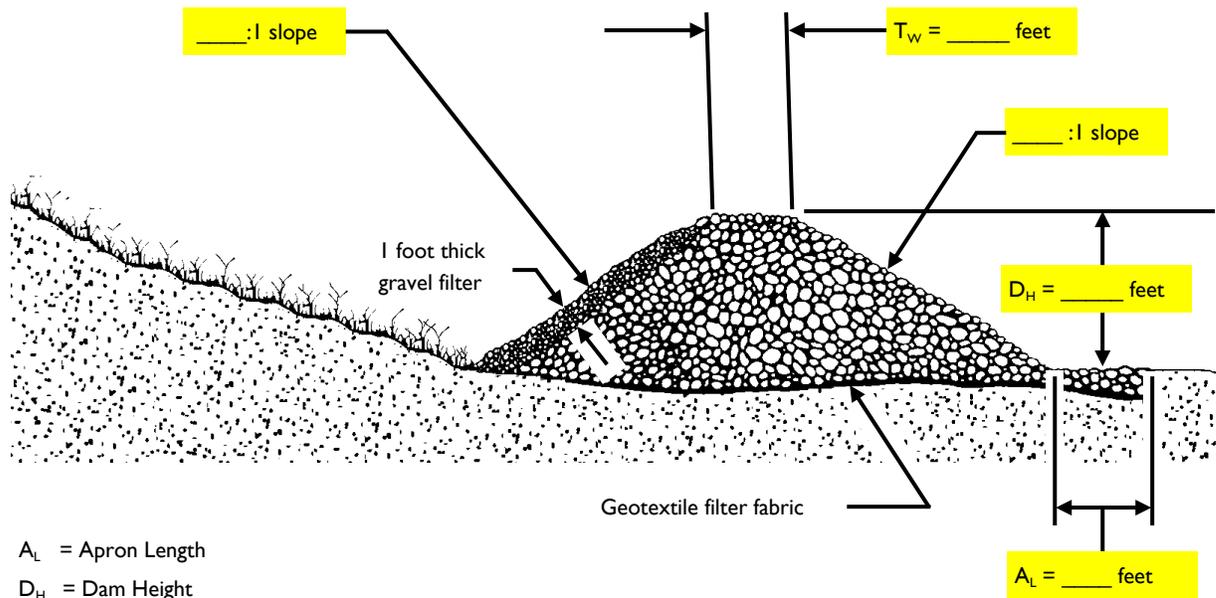
E_D = Excavated Depth

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 145

This page was intentionally left blank.

Temporary Sediment Trap Rock Dam Worksheet



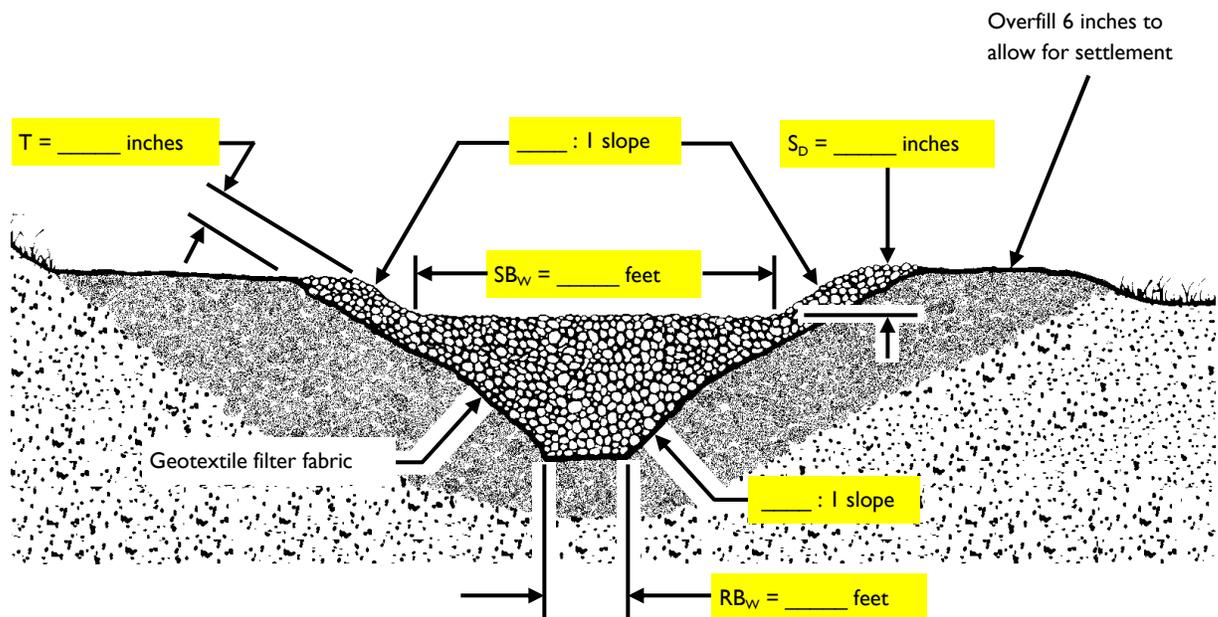
- A_L = Apron Length
- D_H = Dam Height
- FP_E = Flood Pool Elevation
- S_D = Spillway Depth
- T_w = Top Width

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 183

This page was intentionally left blank.

Temporary Sediment Trap Outlet Worksheet



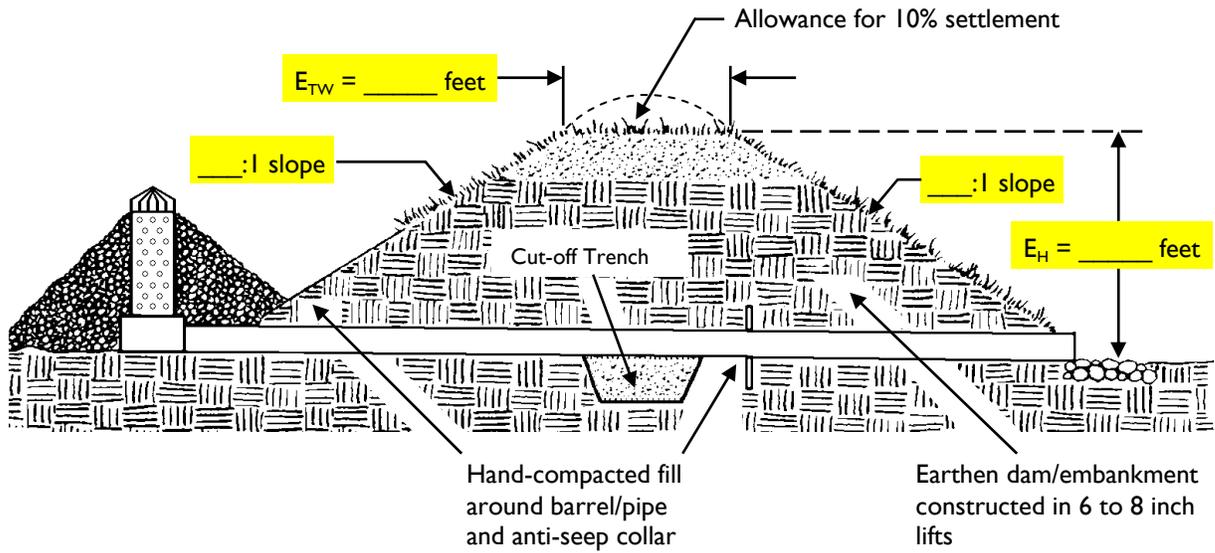
- RB_w = Rock Dam Bottom Width
- S_D = Spillway Depth
- SB_w = Spillway Bottom Width
- T = Spillway Side-Slope Armament Thickness

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 183

This page was intentionally left blank.

Temporary Dry Sediment Basin Earthen Dam/Embankment Worksheet



E_H = Earthen Dam/Embankment Height
 E_{TW} = Earthen Dam/Embankment Top Width

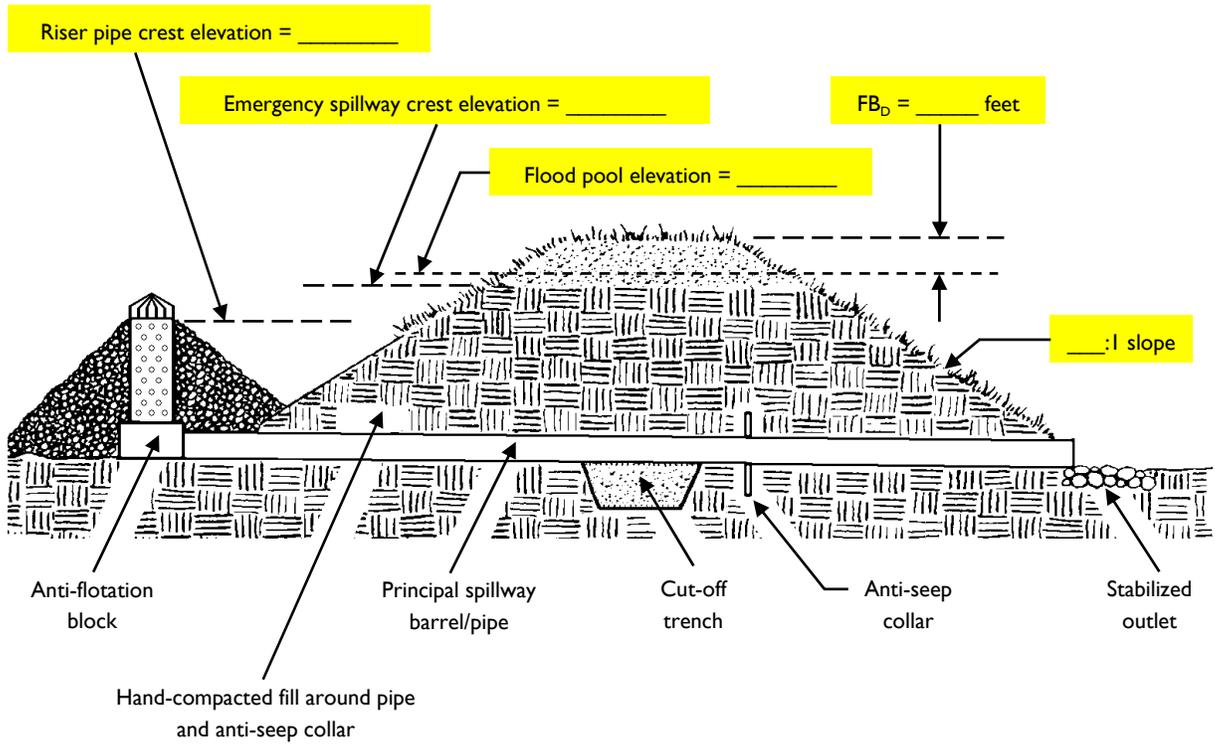
(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

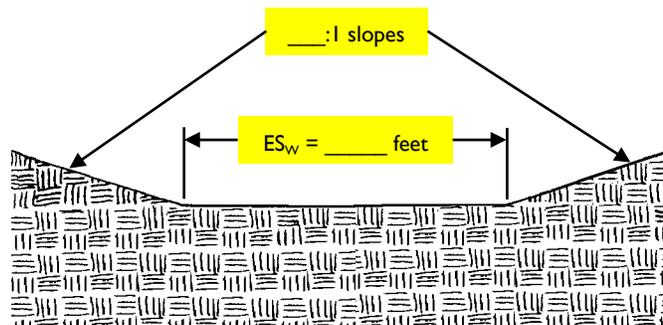
For information
on this measure,
see Chapter 7,
page 191

This page was intentionally left blank.

Temporay Dry Sediment Basin Spillway Worksheet 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993



ES_W = Emergency Spillway Width

FB_D = Free Board Depth

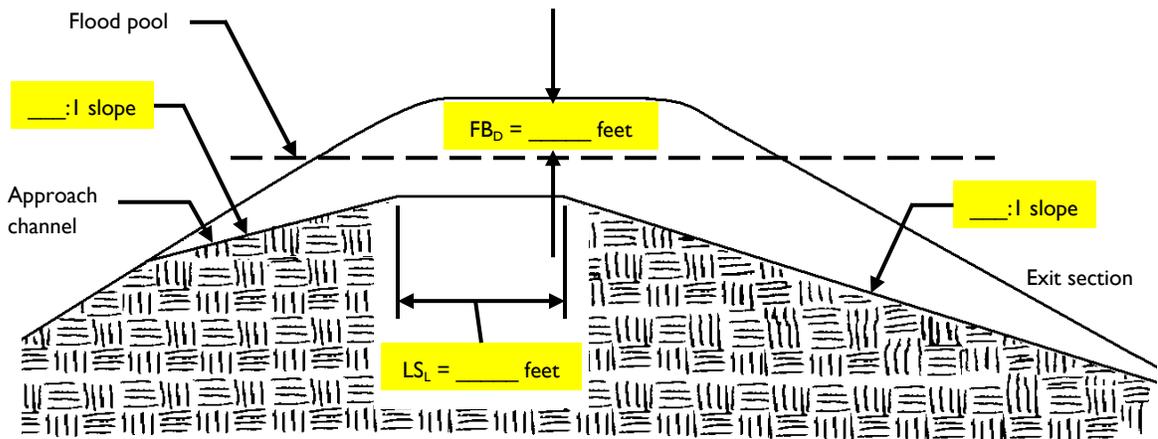
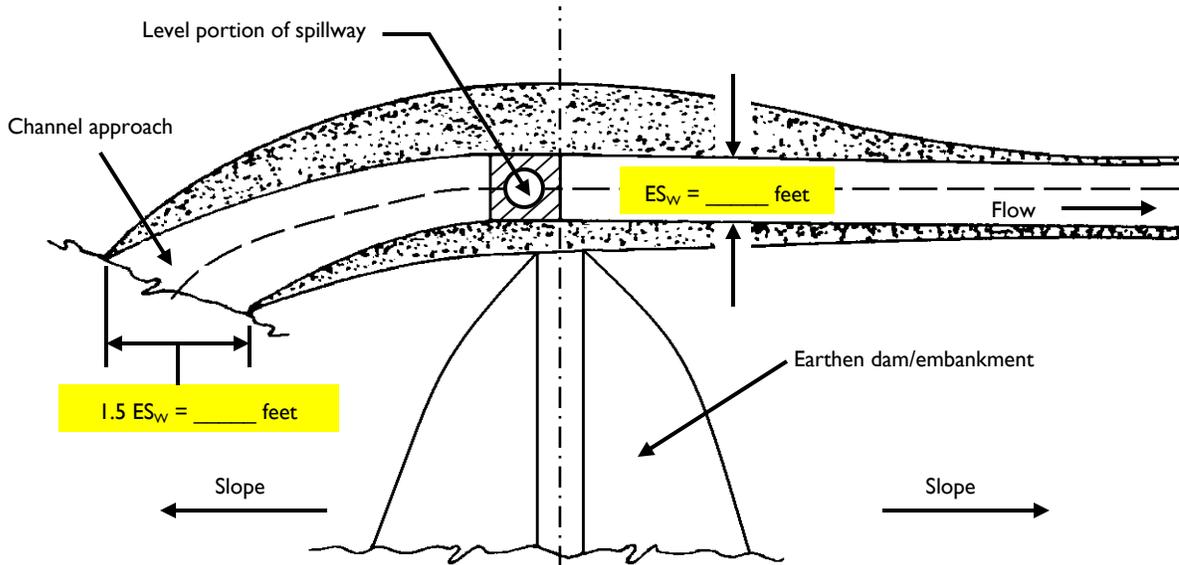
(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

Source: Adapted from U.S. Department of Agriculture, Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 191

This page was intentionally left blank.

Temporary Dry Sediment Basin Spillway Worksheet 2



ES_w = Emergency Spillway Width

FB_D = Free Board Depth

LS_L = Level Section Length

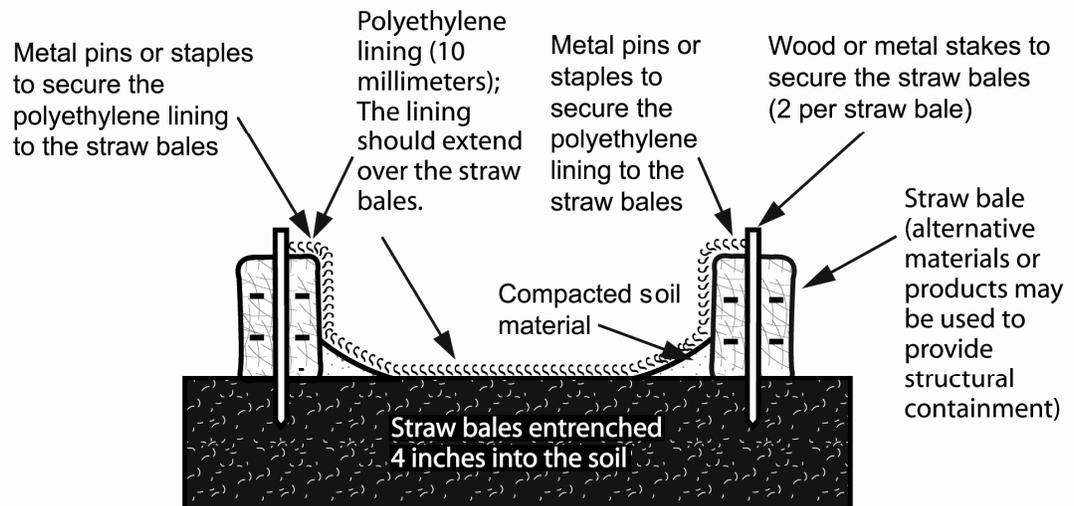
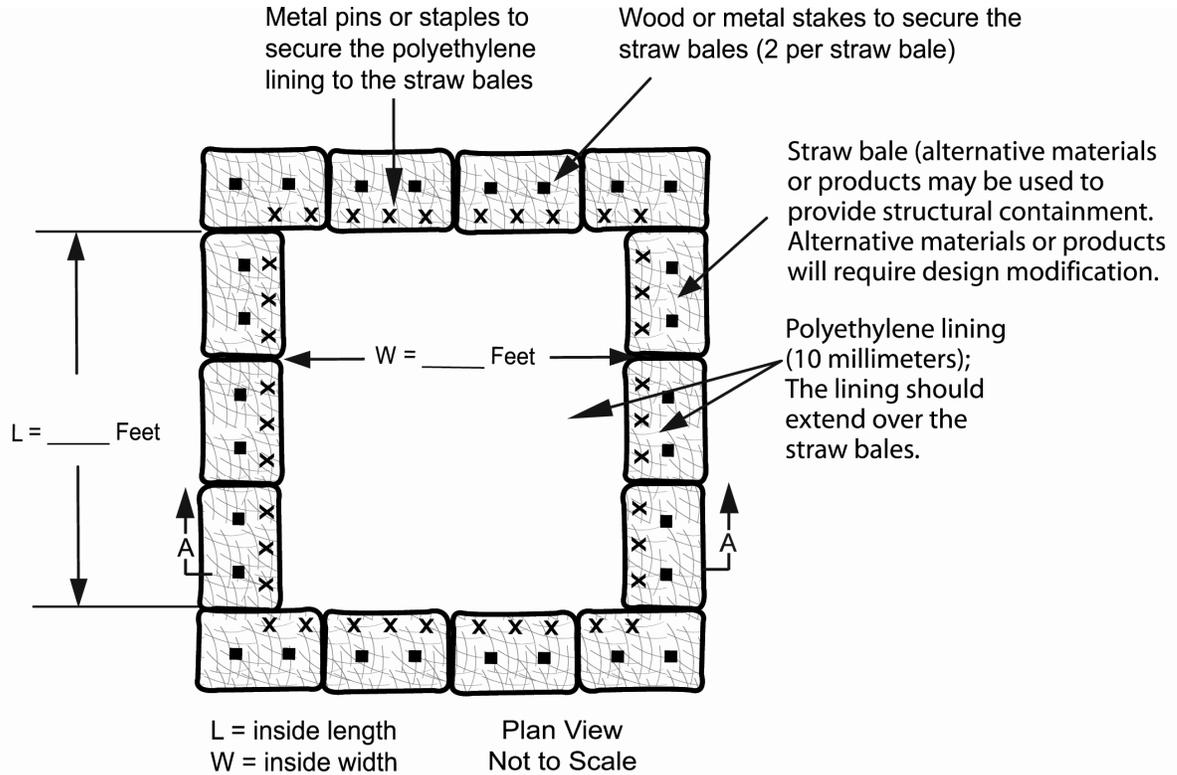
(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

For information on this measure, see Chapter 7, page 191

Source: Adapted from USDA Natural Resources Conservation Service

This page was intentionally left blank.

Concrete Washout (Above Grade System) Worksheet

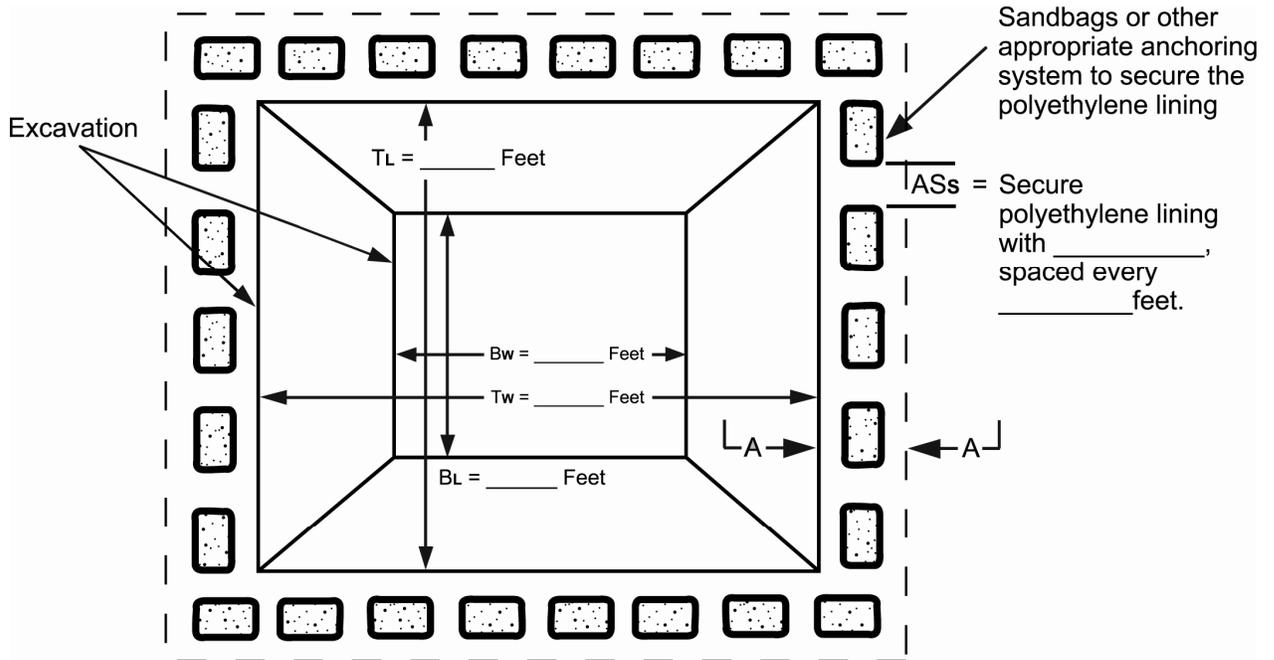


Section A-A
Not to scale

For information
on this measure,
see Chapter 7,
page 247

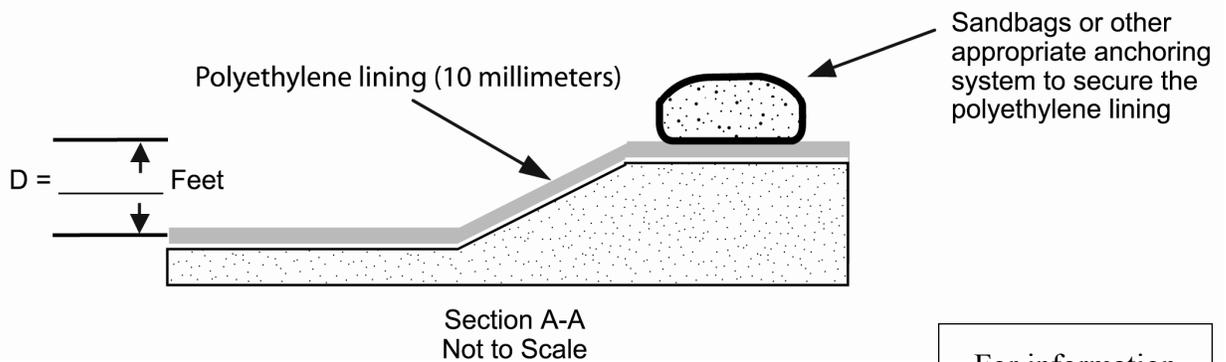
This page was intentionally left blank.

Concrete Washout (Below Grade System) Worksheet



- TL = Top Length of Excavation
- BL = Bottom Length of Excavation
- Tw = Top Width of Excavation
- Bw = Bottom Width of Excavation
- ASs = Anchoring System type and spacing

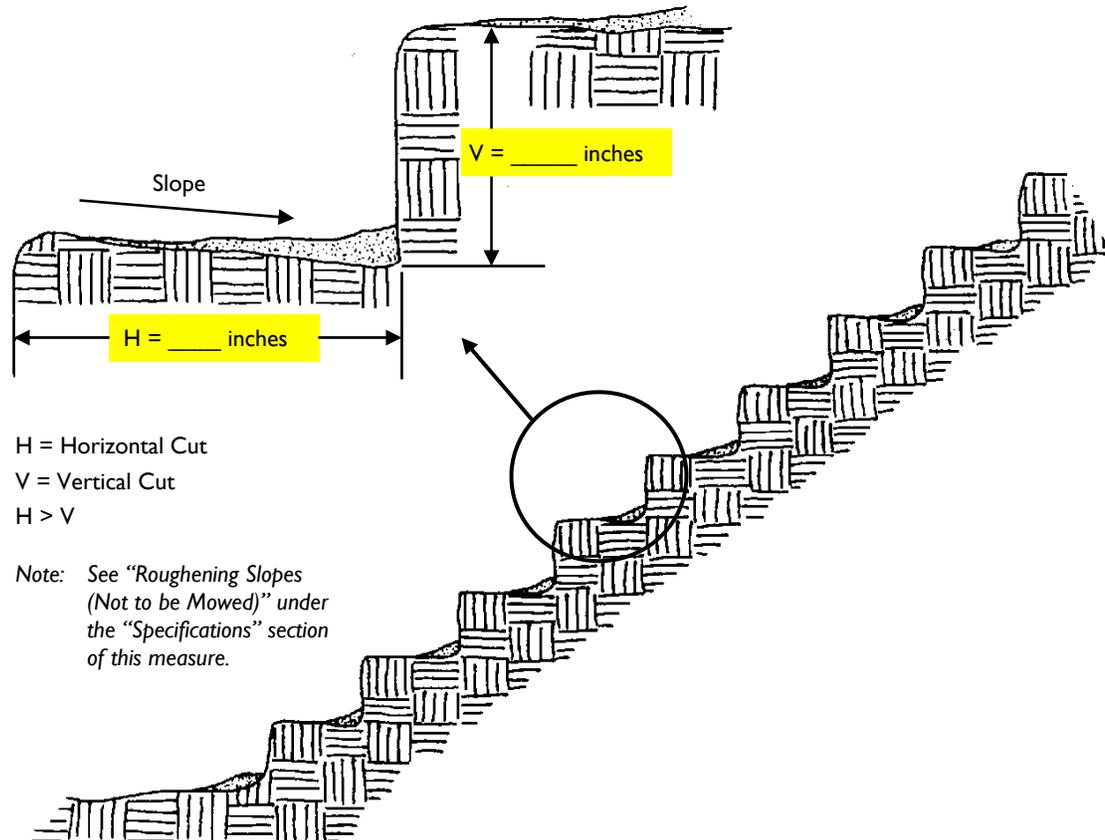
Plan View
Not to Scale



For information on this measure, see Chapter 7, page 247

This page was intentionally left blank.

Surface Roughening – Stair-Step Worksheet

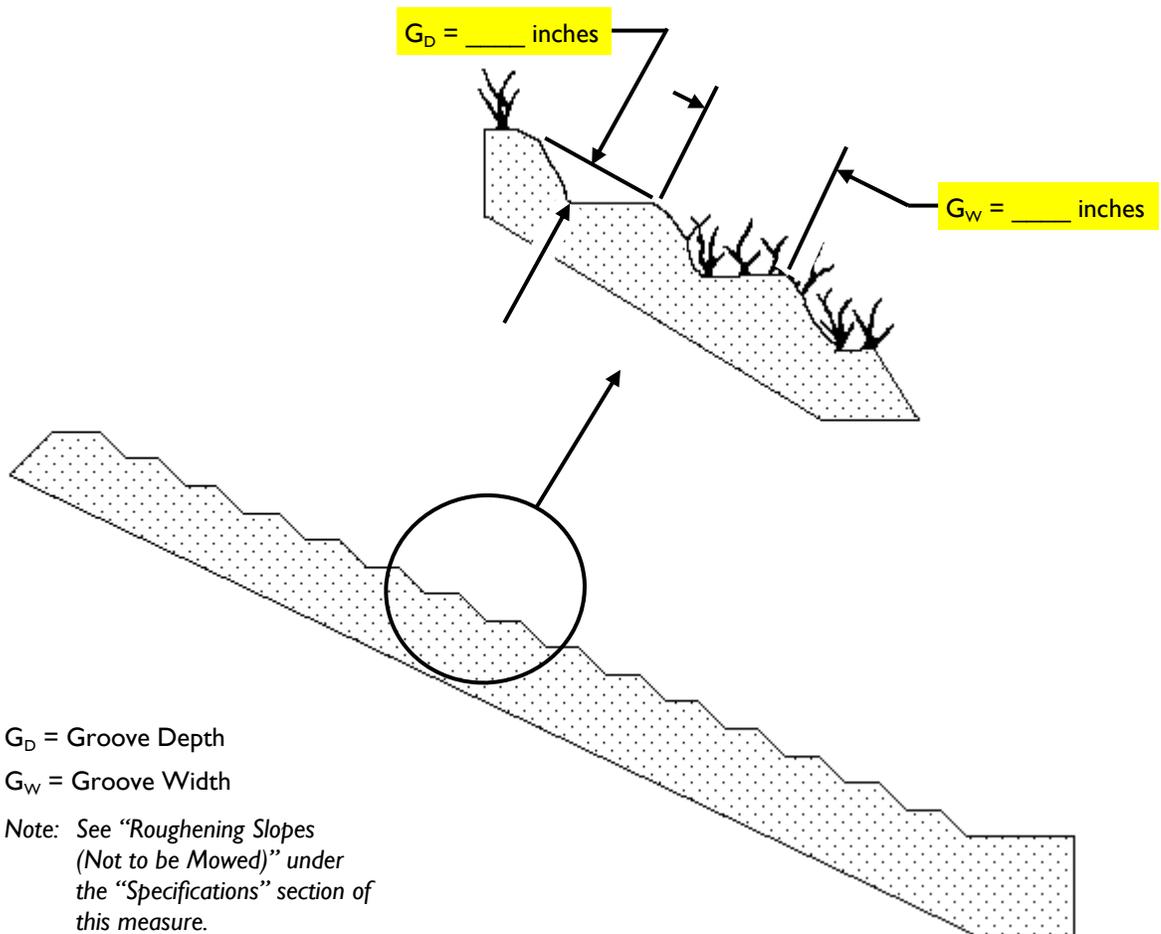


Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 297

This page was intentionally left blank.

Surface Roughening – Grooving Worksheet



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 297

This page was intentionally left blank.

Sod

Exhibit 1

Perspective View



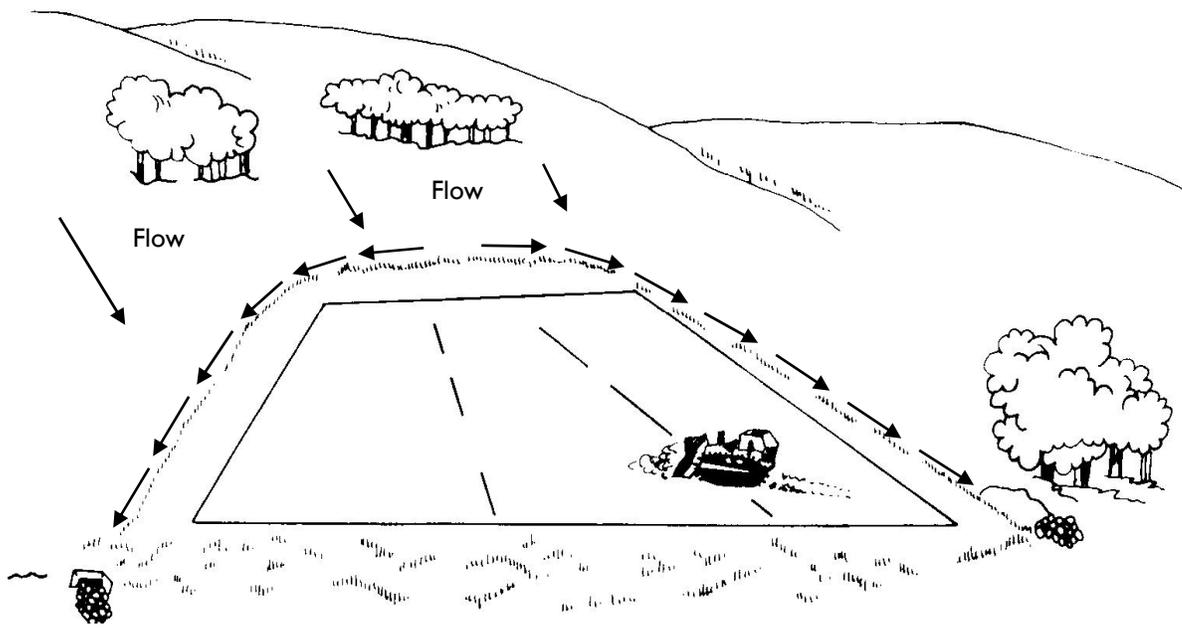
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 47

This page was intentionally left blank.

Perimeter Diversion Dike

Exhibit 1



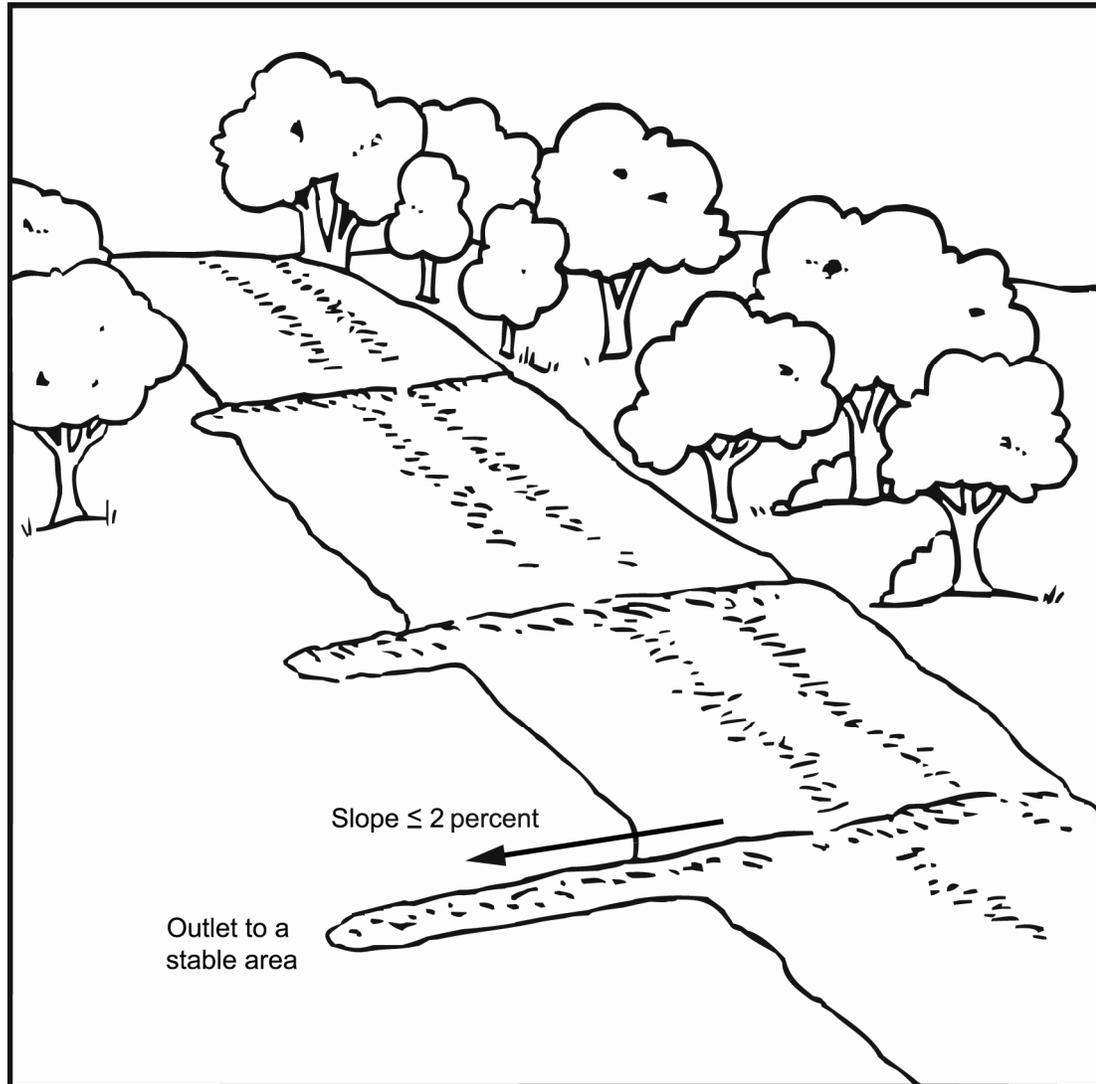
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 83

This page was intentionally left blank.

Water Bar

Exhibit 1

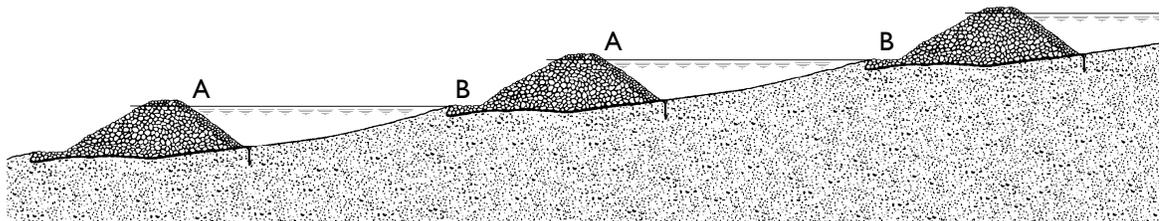


For information
on this measure,
see Chapter 7,
page 89

This page was intentionally left blank.

Rock Check Dam

Exhibit 1



A = Crest of Dam

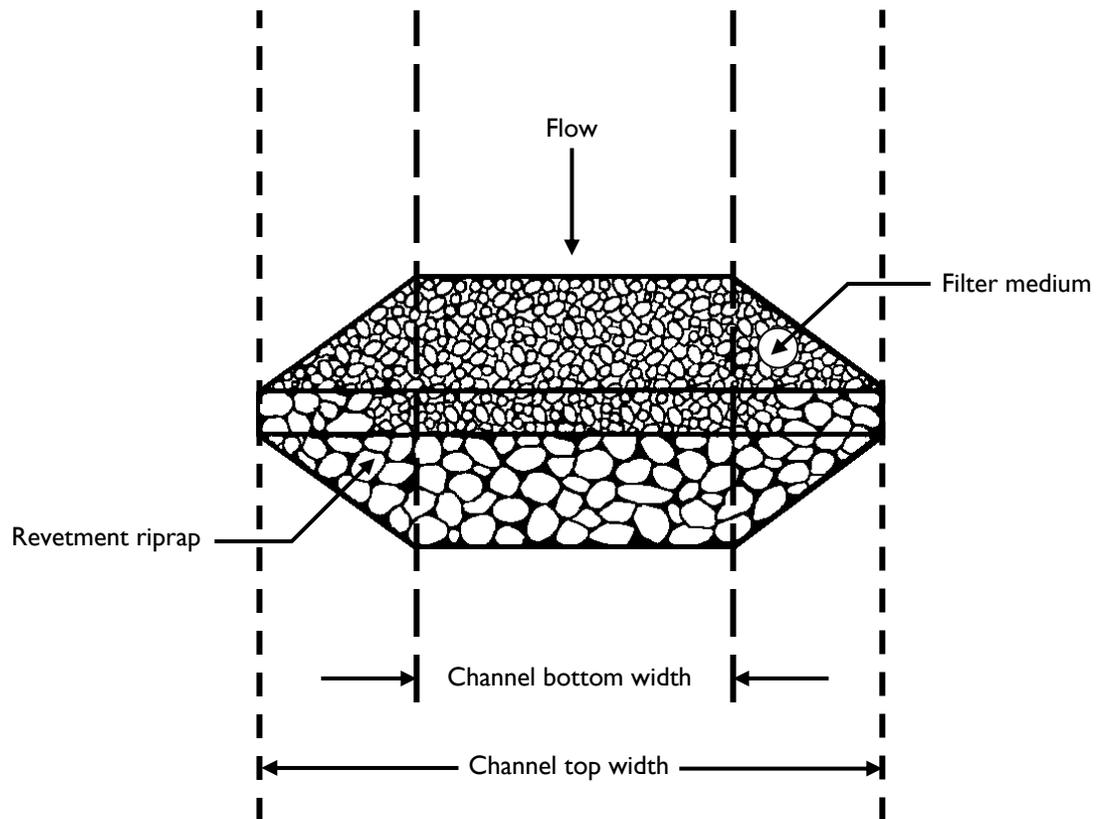
B = Toe of Dam

For information
on this measure,
see Chapter 7,
page 97

This page was intentionally left blank.

Rock Check Dam

Exhibit 2

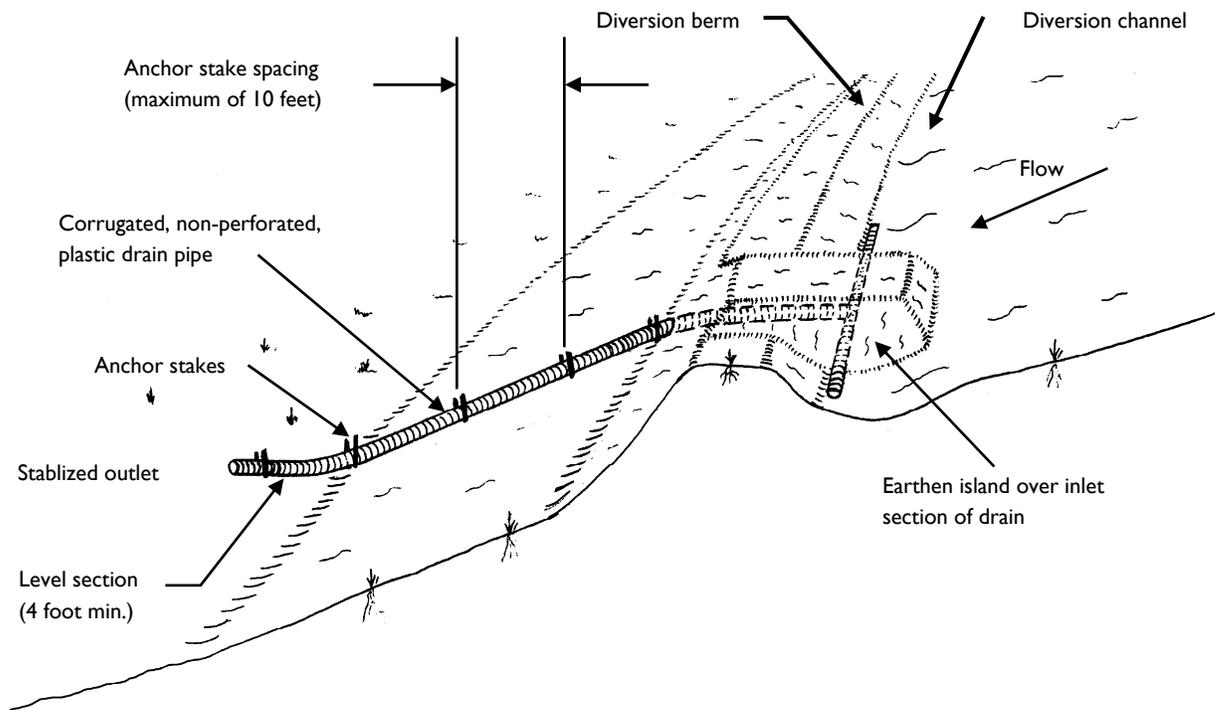


For information
on this measure,
see Chapter 7,
page 97

This page was intentionally left blank.

Temporary Slope Drain

Exhibit 1

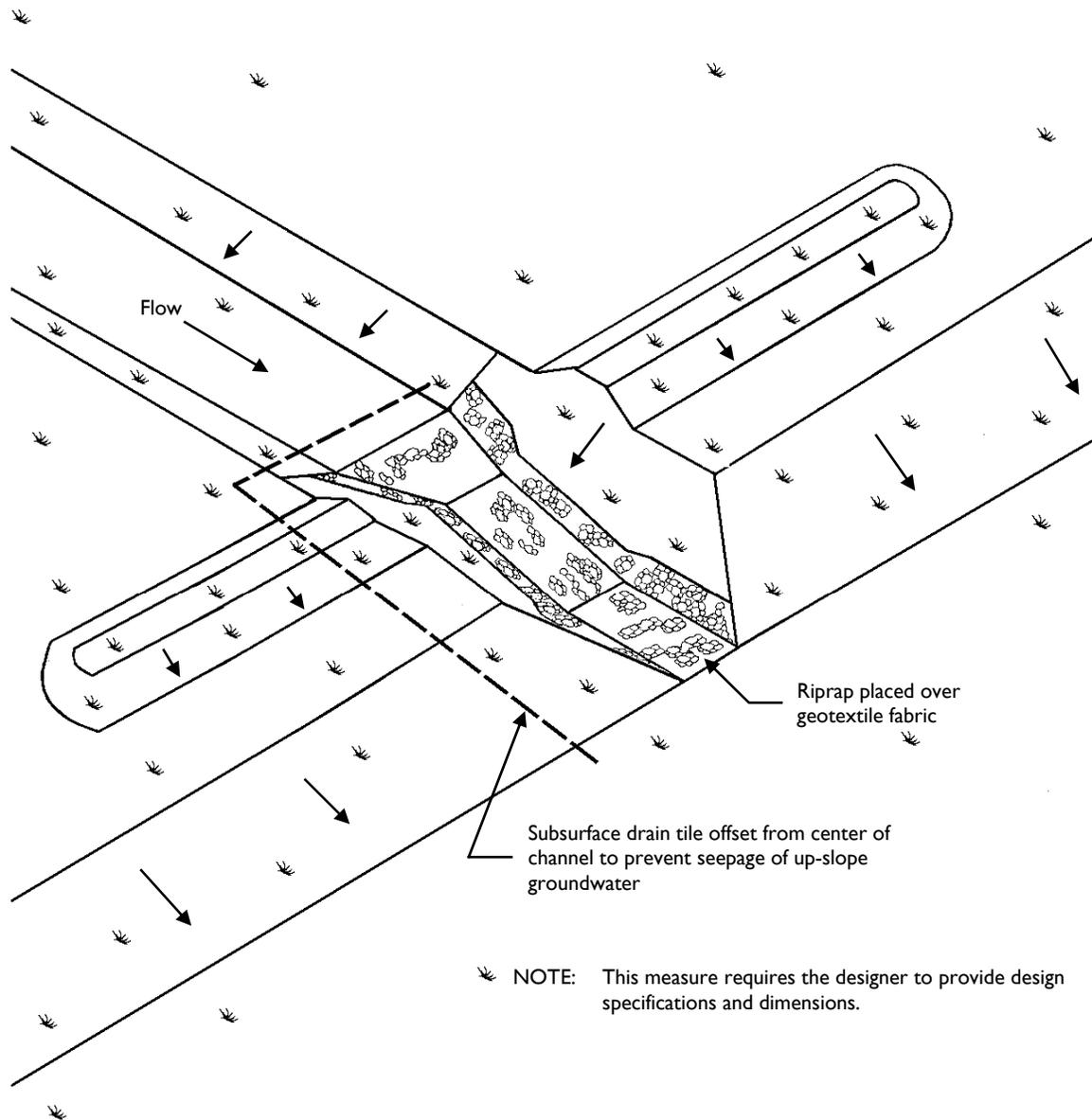


For information on this measure, see Chapter 7, page 103

This page was intentionally left blank.

Rock-Lined Chute

Exhibit 1



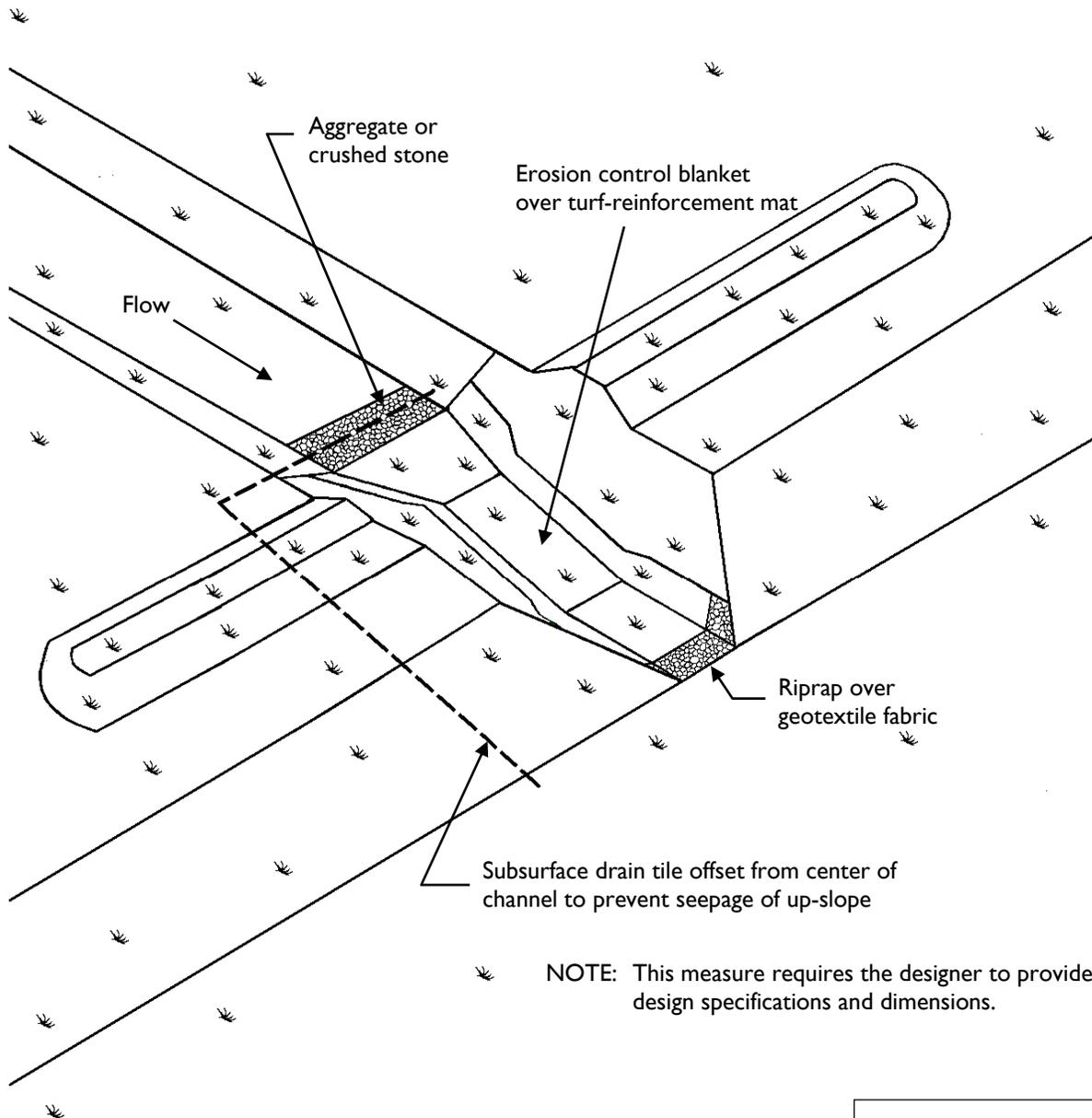
Source: Adapted from USDA Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 127

This page was intentionally left blank.

Reinforced Vegetated Chute

Exhibit 1



NOTE: This measure requires the designer to provide design specifications and dimensions.

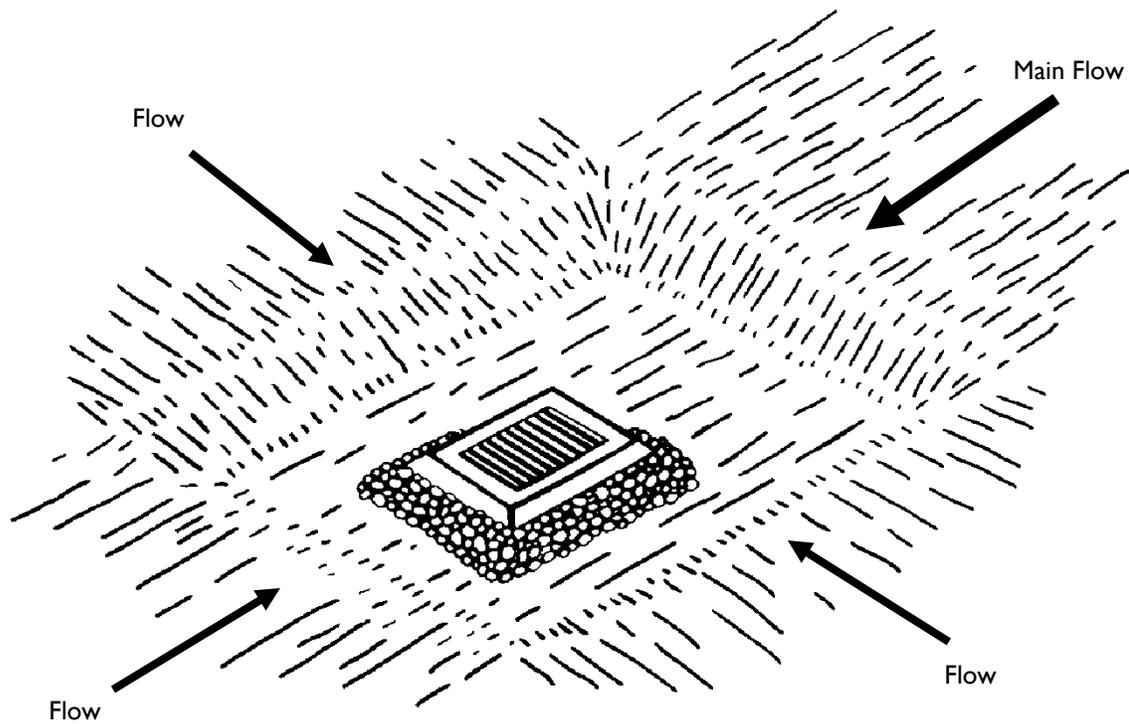
Source: Adapted from USDA Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 135

This page was intentionally left blank.

Excavated Drop Inlet Protection

Exhibit 1



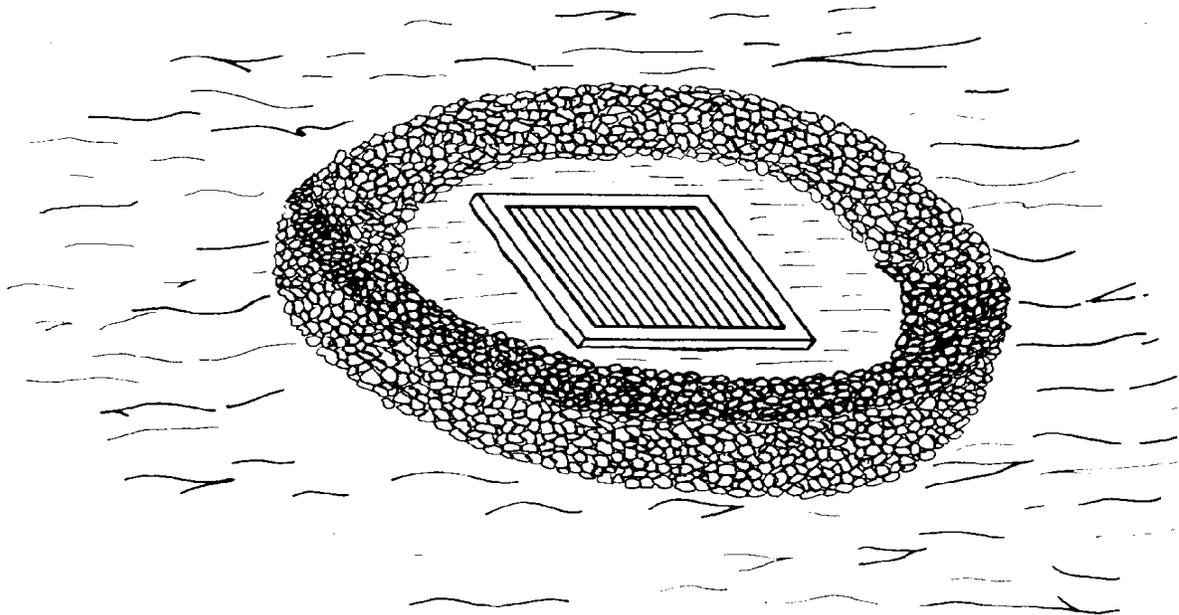
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 145

This page was intentionally left blank.

Gravel Donut Drop Inlet Protection

Exhibit 1

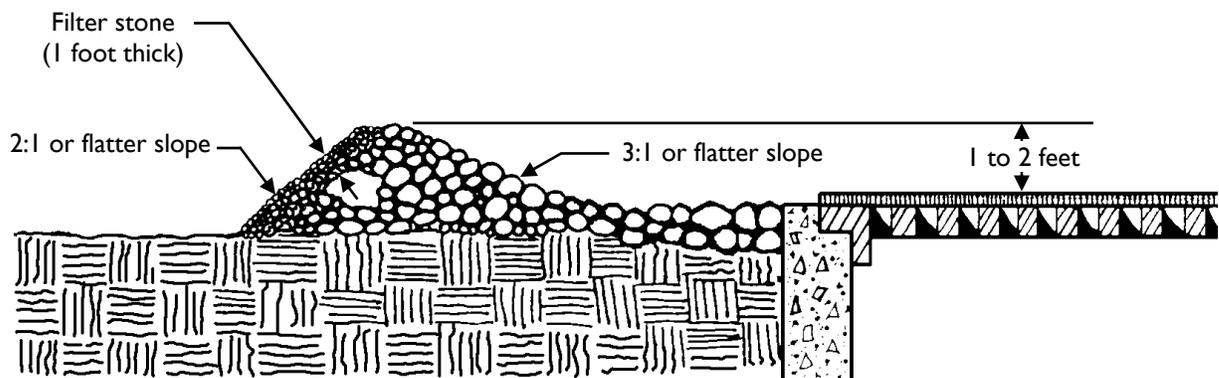


For information
on this measure,
see Chapter 7,
page 149

This page was intentionally left blank.

Gravel Donut Drop Inlet Protection

Exhibit 2



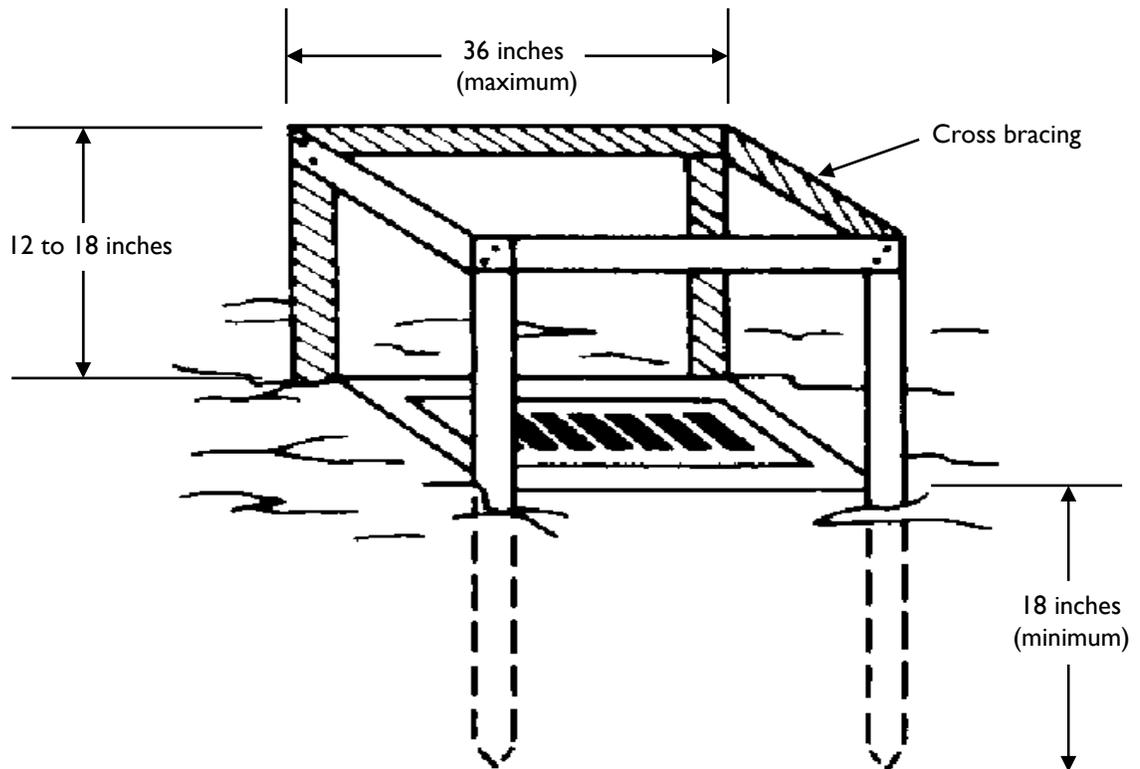
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 149

This page was intentionally left blank.

Geotextile Fabric Drop Inlet Protection

Exhibit 1



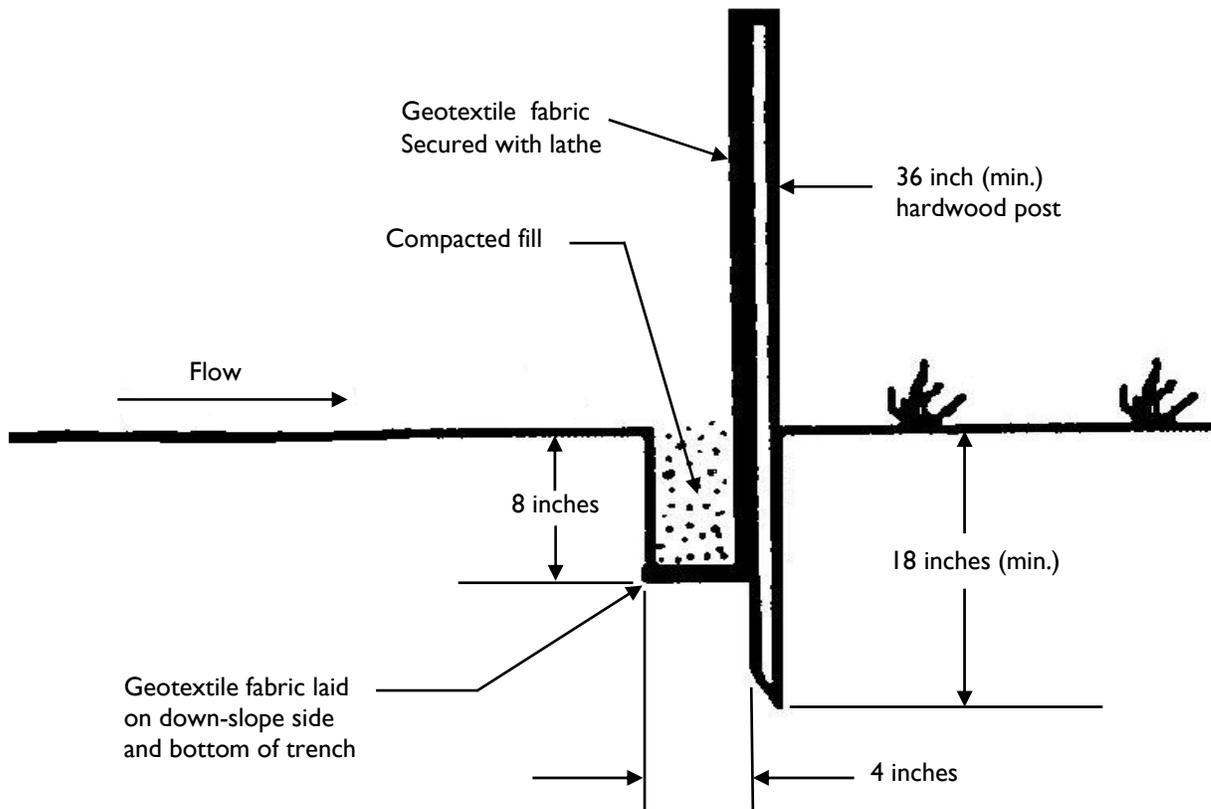
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 153

This page was intentionally left blank.

Geotextile Fabric Drop Inlet Protection

Exhibit 2

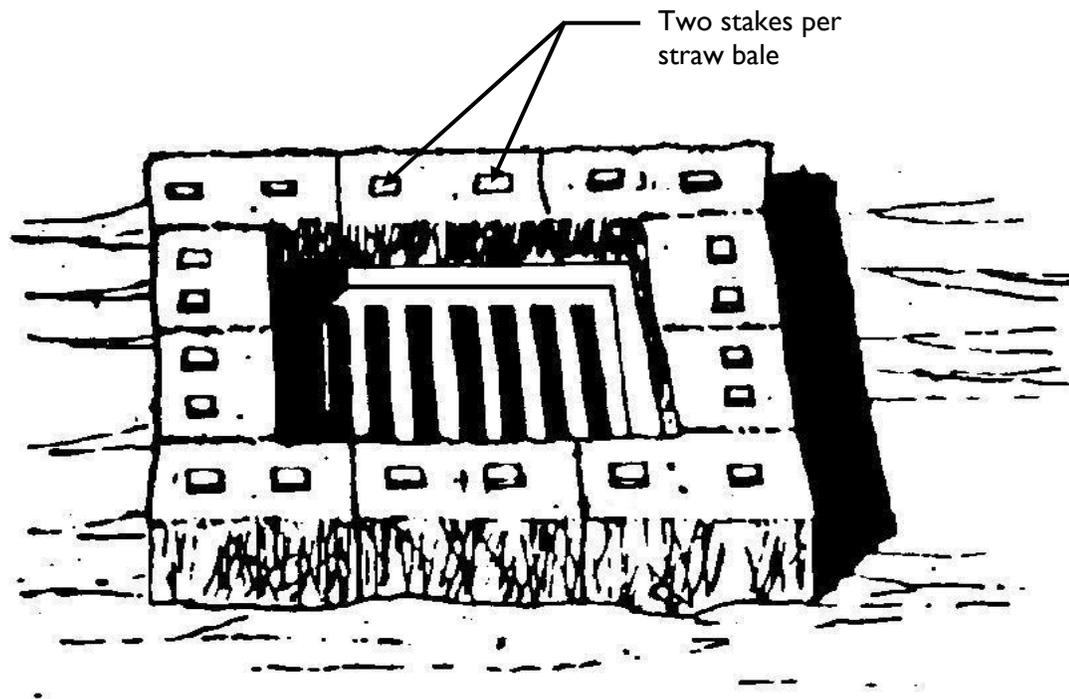


For information on this measure, see Chapter 7, page 153

This page was intentionally left blank.

Straw Bale Drop Inlet Protection

Exhibit 1



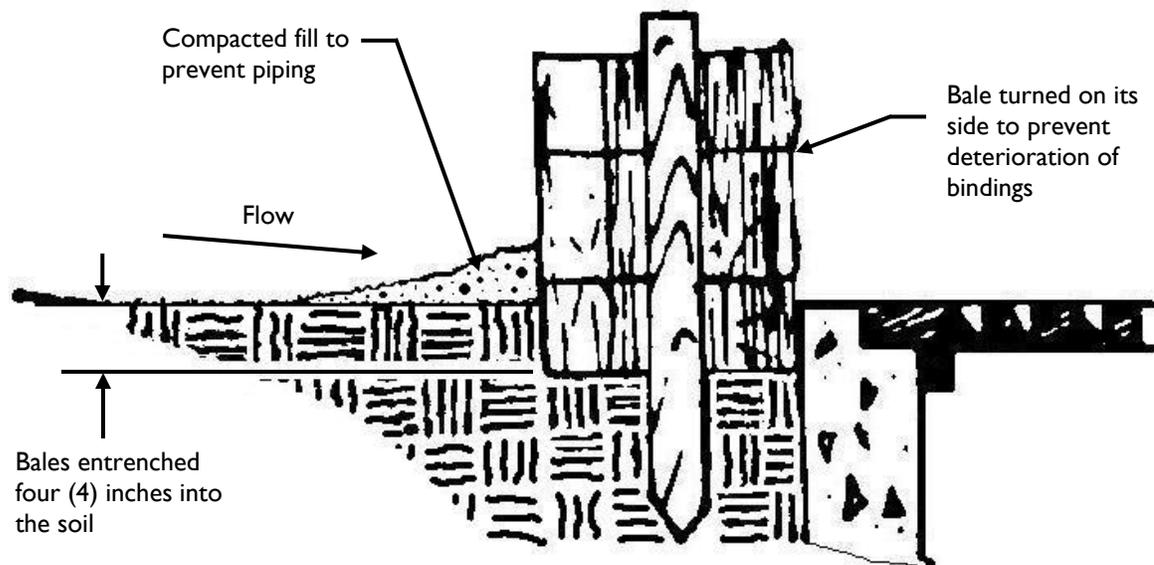
Source: Adapted from Michigan Soil Erosion and Sedimentation Control Guidebook, 1975

For information
on this measure,
see Chapter 7,
page 159

This page was intentionally left blank.

Straw Bale Drop Inlet Protection

Exhibit 2



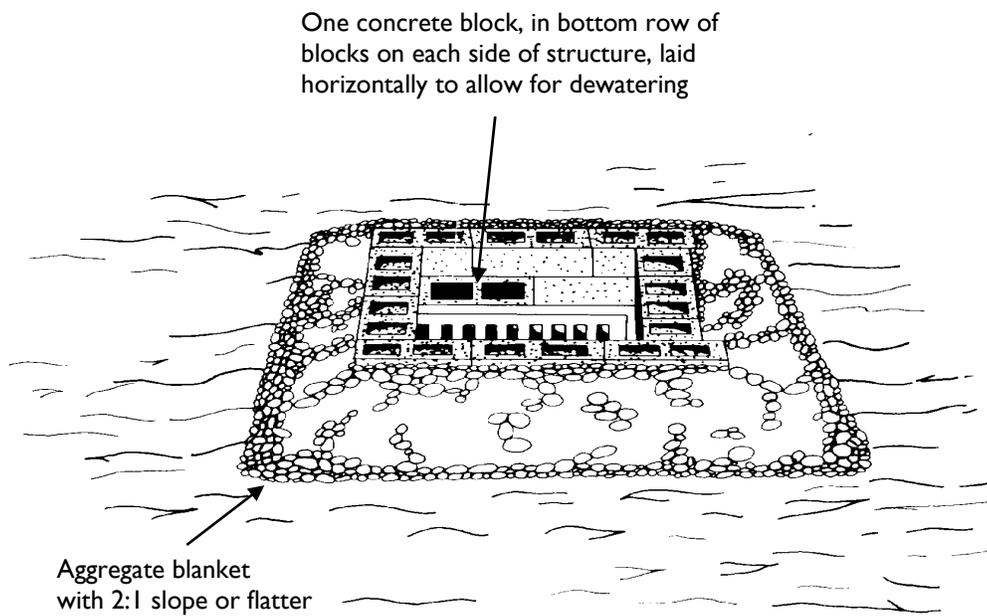
Source: Adapted from Michigan Soil Erosion and Sedimentation Control Guidebook, 1975

For information
on this measure,
see Chapter 7,
page 159

This page was intentionally left blank.

Block & Gravel Drop Inlet Protection

Exhibit 1



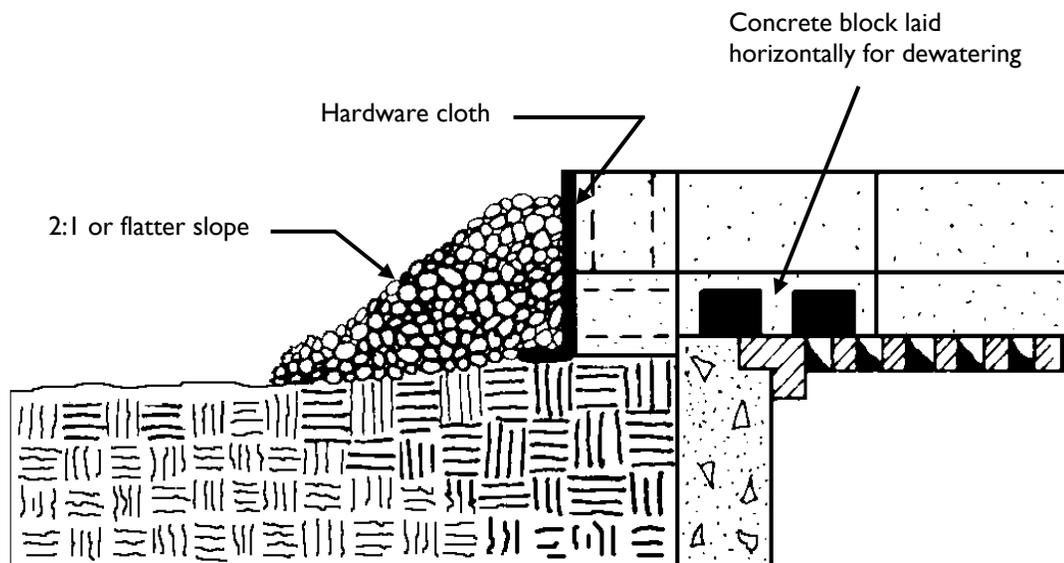
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 163

This page was intentionally left blank.

Block & Gravel Drop Inlet Protection

Exhibit 2



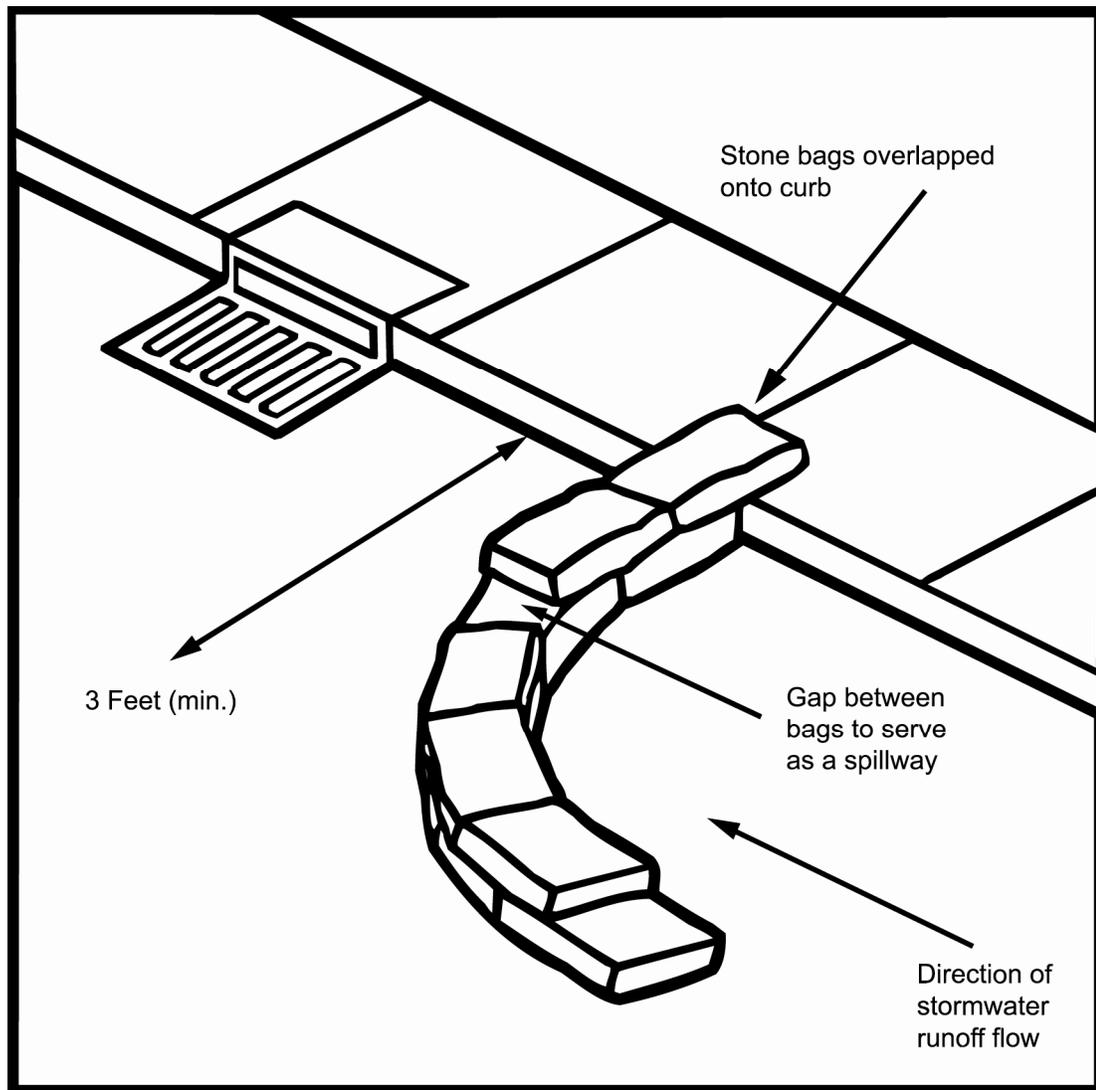
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 163

This page was intentionally left blank.

Stone Bag Curb Inlet Protection

Exhibit 1

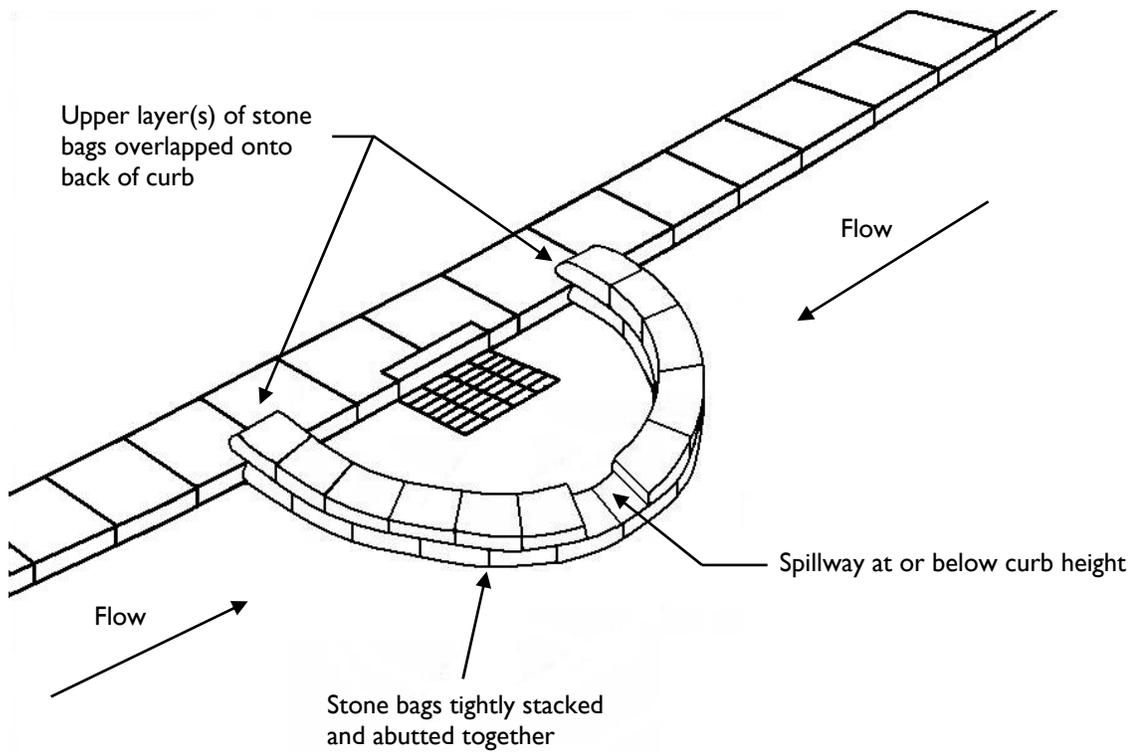


For information
on this measure,
see Chapter 7,
page 169

This page was intentionally left blank.

Stone Bag Curb Inlet Protection

Exhibit 2

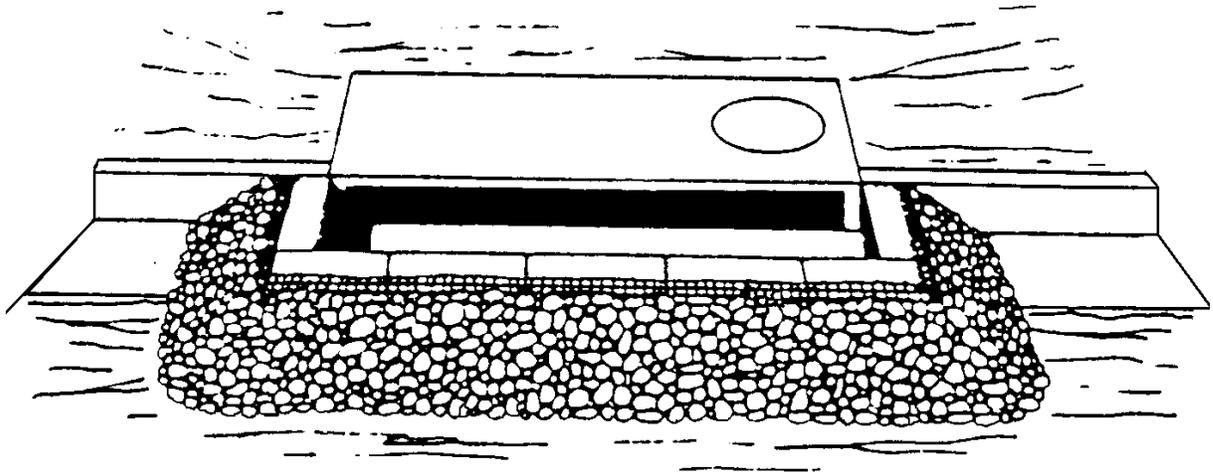


For information on this measure, see Chapter 7, page 169

This page was intentionally left blank.

Block & Gravel Curb Inlet Protection

Exhibit 1



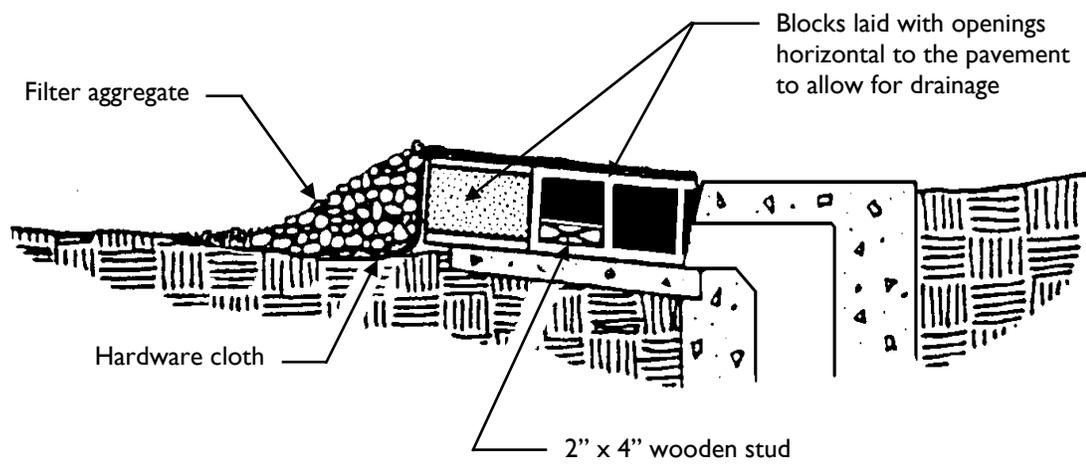
Source: Adapted from Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation

For information
on this measure,
see Chapter 7,
page 173

This page was intentionally left blank.

Block & Gravel Curb Inlet Protection

Exhibit 2

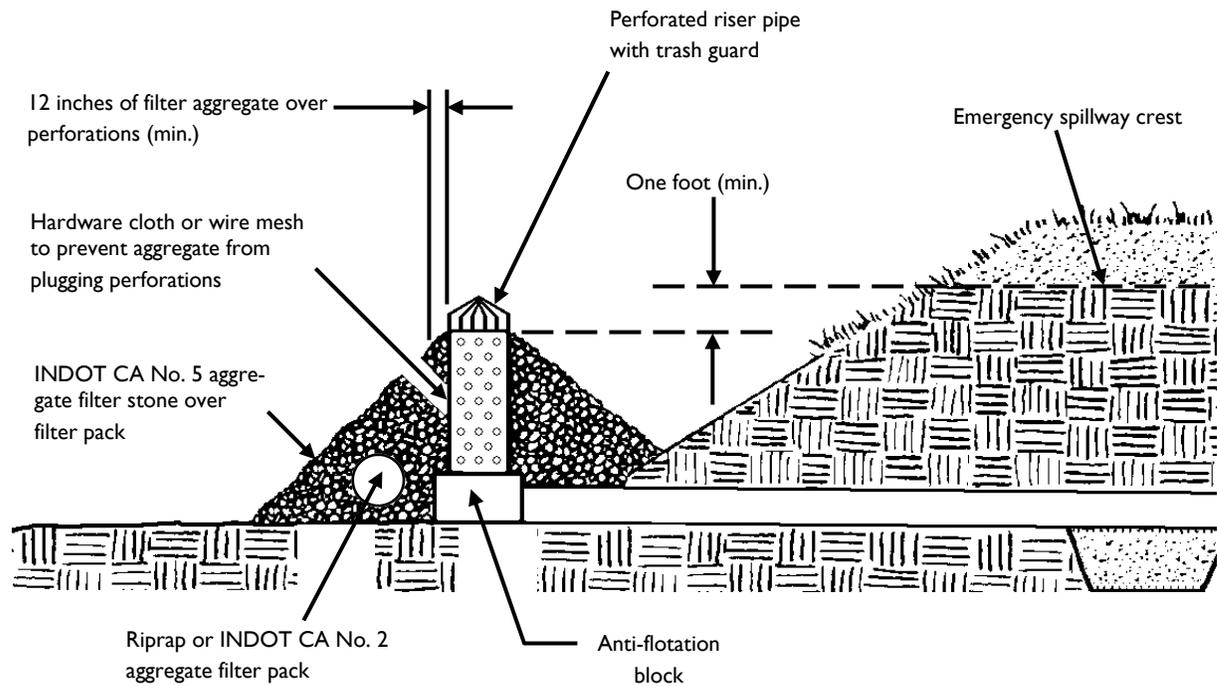


For information
on this measure,
see Chapter 7,
page 173

This page was intentionally left blank.

Temporary Dry Sediment Basin Riser Pipe

Exhibit 1



NOTE: For minimum dimensions see the "Specifications" section of this measure.

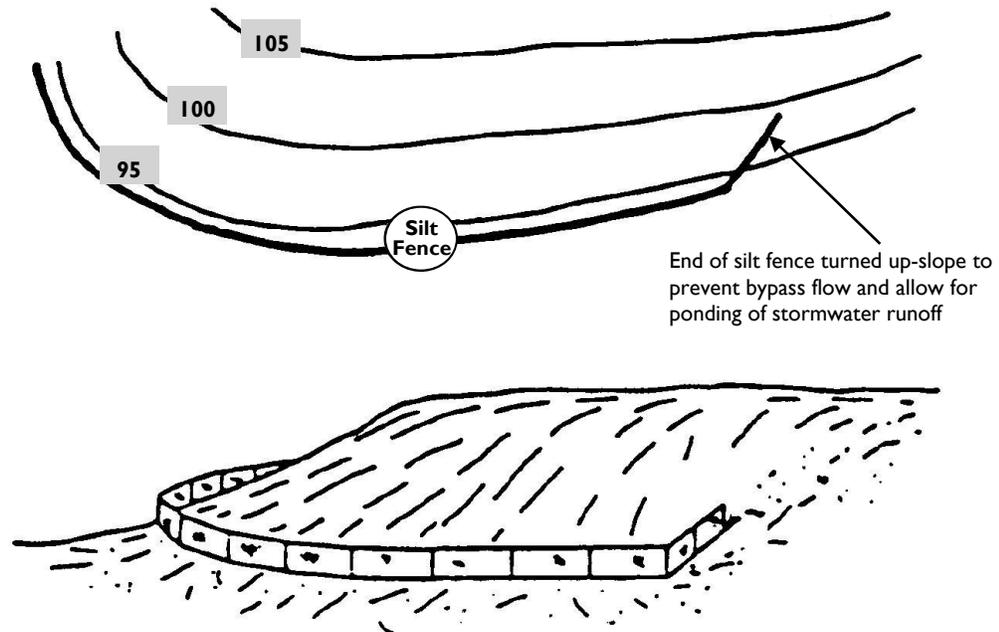
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information
on this measure,
see Chapter 7,
page 191

This page was intentionally left blank.

Silt Fence

Exhibit 1



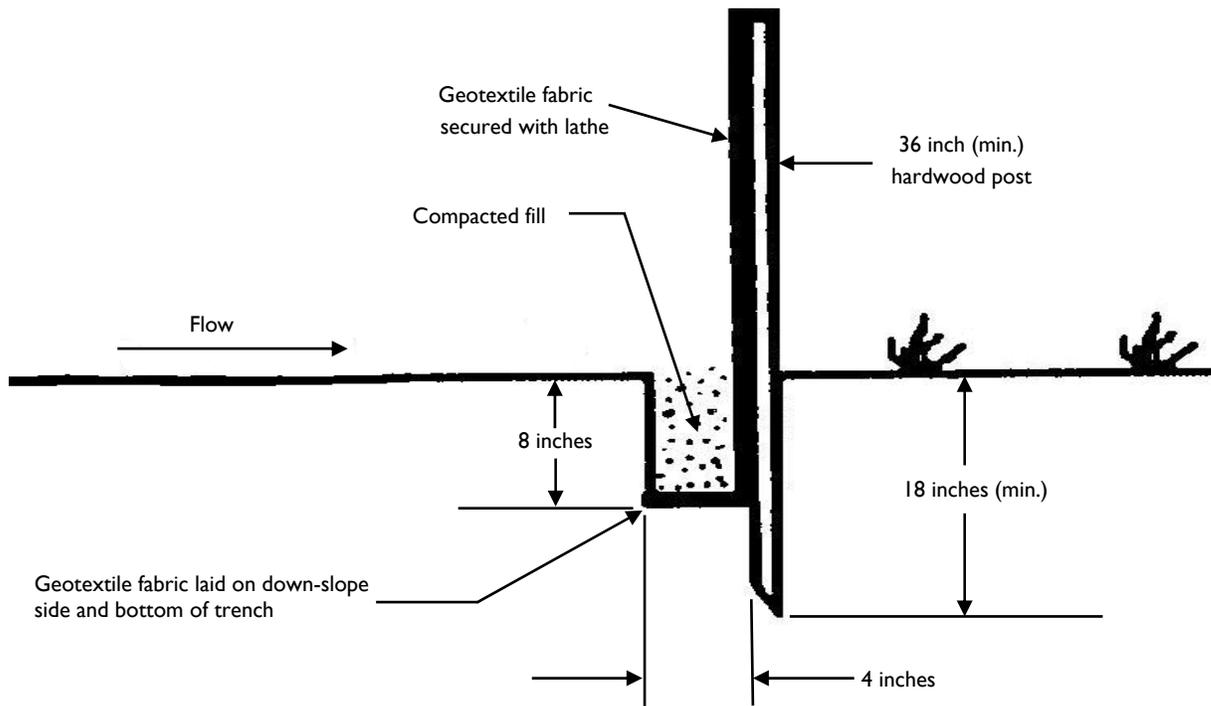
Source: Adapted from Commonwealth of Pennsylvania Erosion and Sediment Pollution Control Program Manual, 1990

For information
on this measure,
see Chapter 7,
page 215

This page was intentionally left blank.

Silt Fence

Exhibit 2

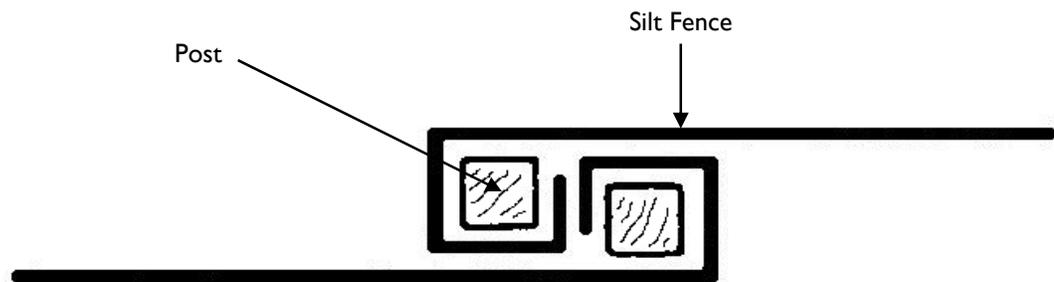


For information
on this measure,
see Chapter 7,
page 215

This page was intentionally left blank.

Silt Fence

Exhibit 3

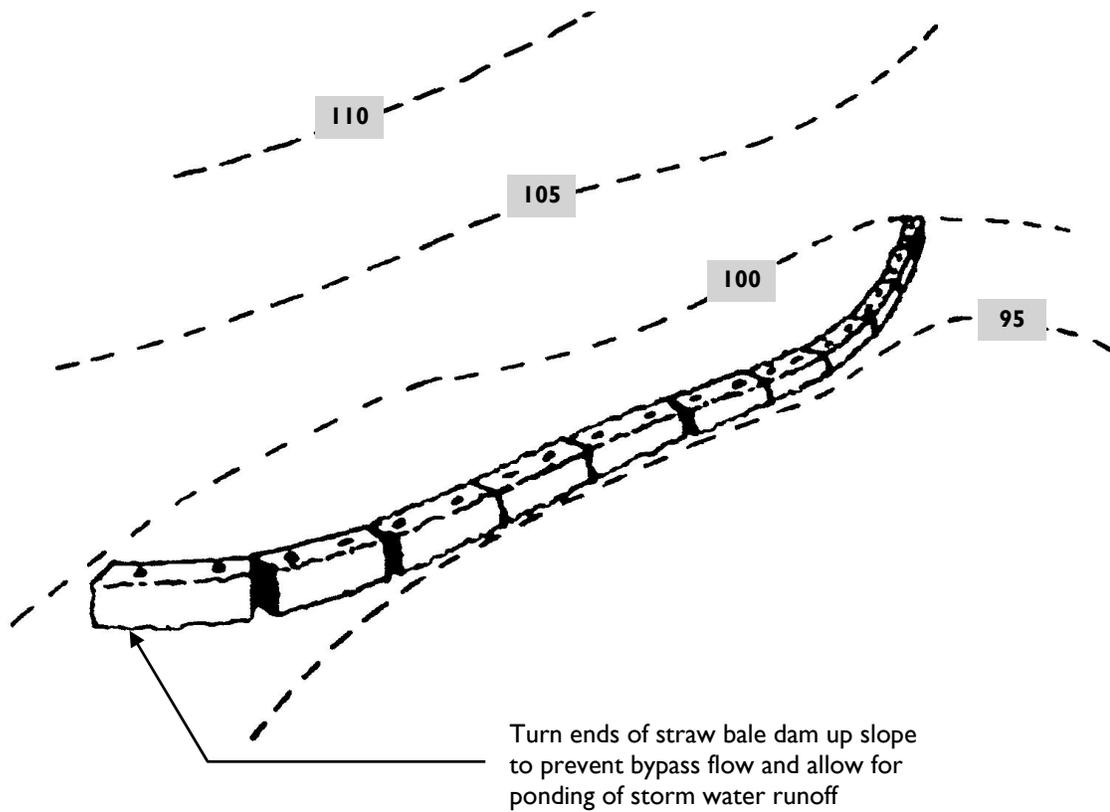


For information
on this measure,
see Chapter 7,
page 215

This page was intentionally left blank.

Straw Bale Dam

Exhibit 1



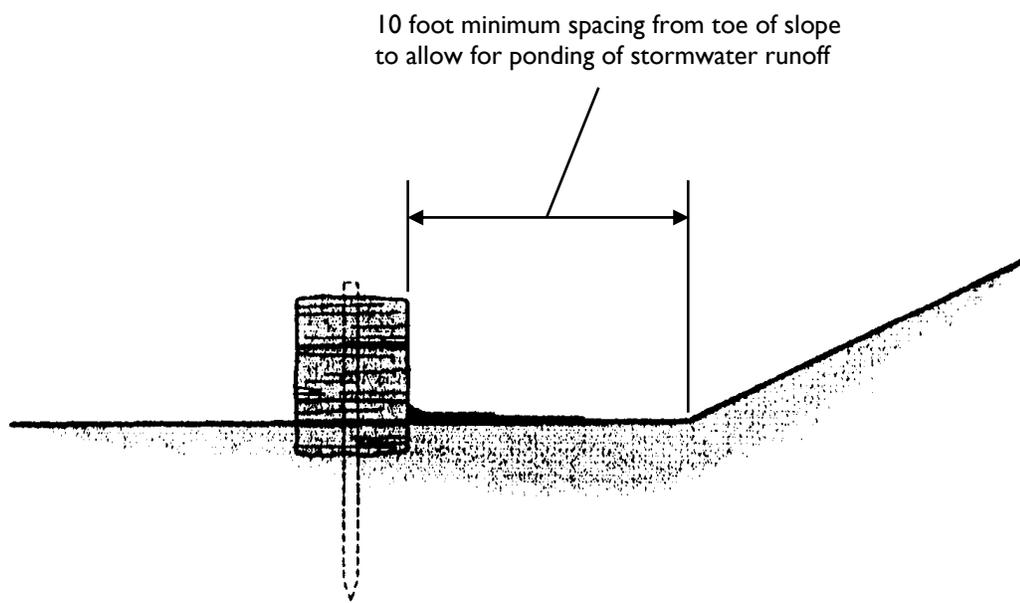
Source: Adapted from Minnesota Pollution Control Agency, Minnesota Construction Site Erosion and Sediment Control Planning Handbook, 1987

For information
on this measure,
see Chapter 7,
page 223

This page was intentionally left blank.

Straw Bale Dam

Exhibit 2



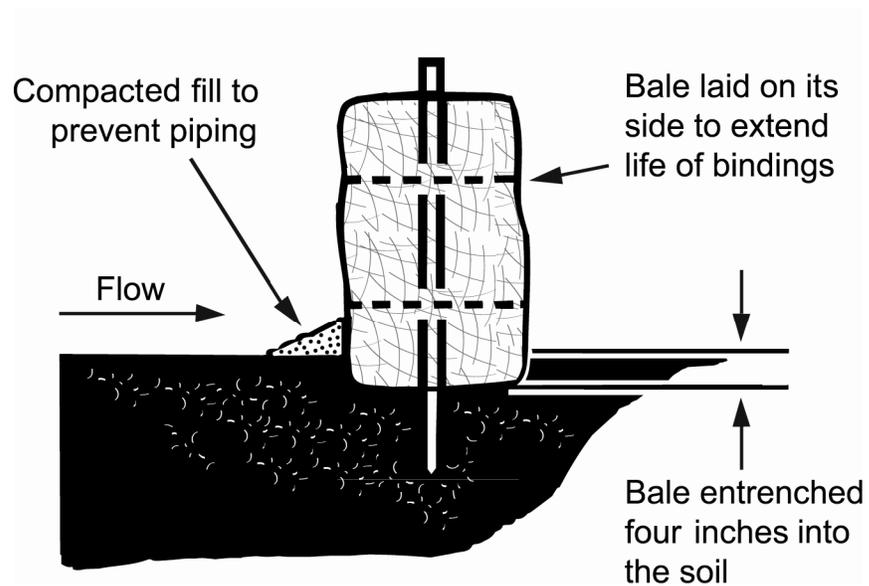
Source: California Regional Water Quality Control Board, San Francisco Bay Region
Erosion and Sediment Control Field Manual, Second Edition

For information
on this measure,
see Chapter 7,
page 223

This page was intentionally left blank.

Straw Bale Dam

Exhibit 3

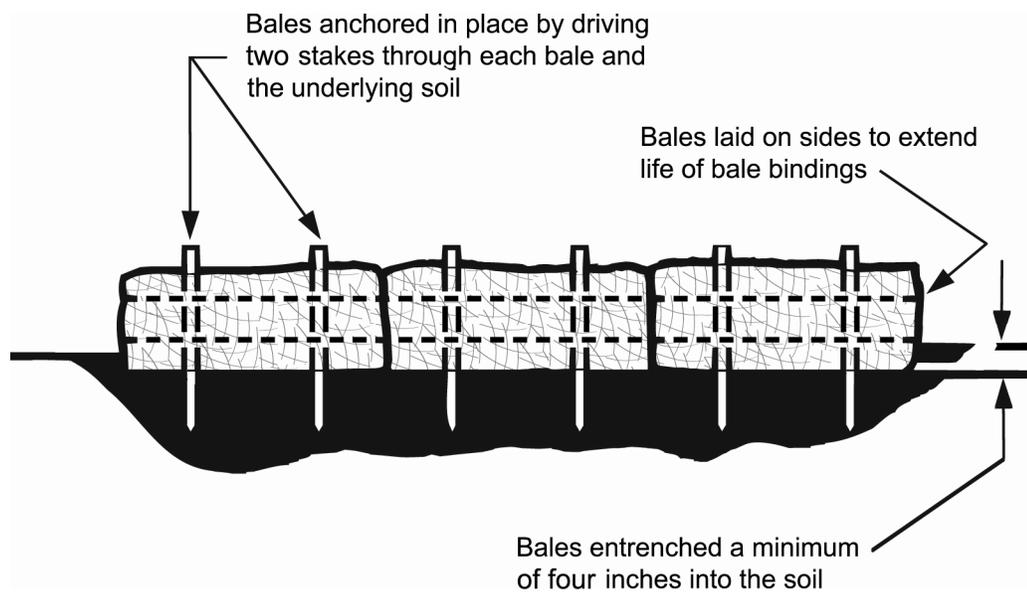


For information
on this measure,
see Chapter 7,
page 223

This page was intentionally left blank.

Straw Bale Dam

Exhibit 4

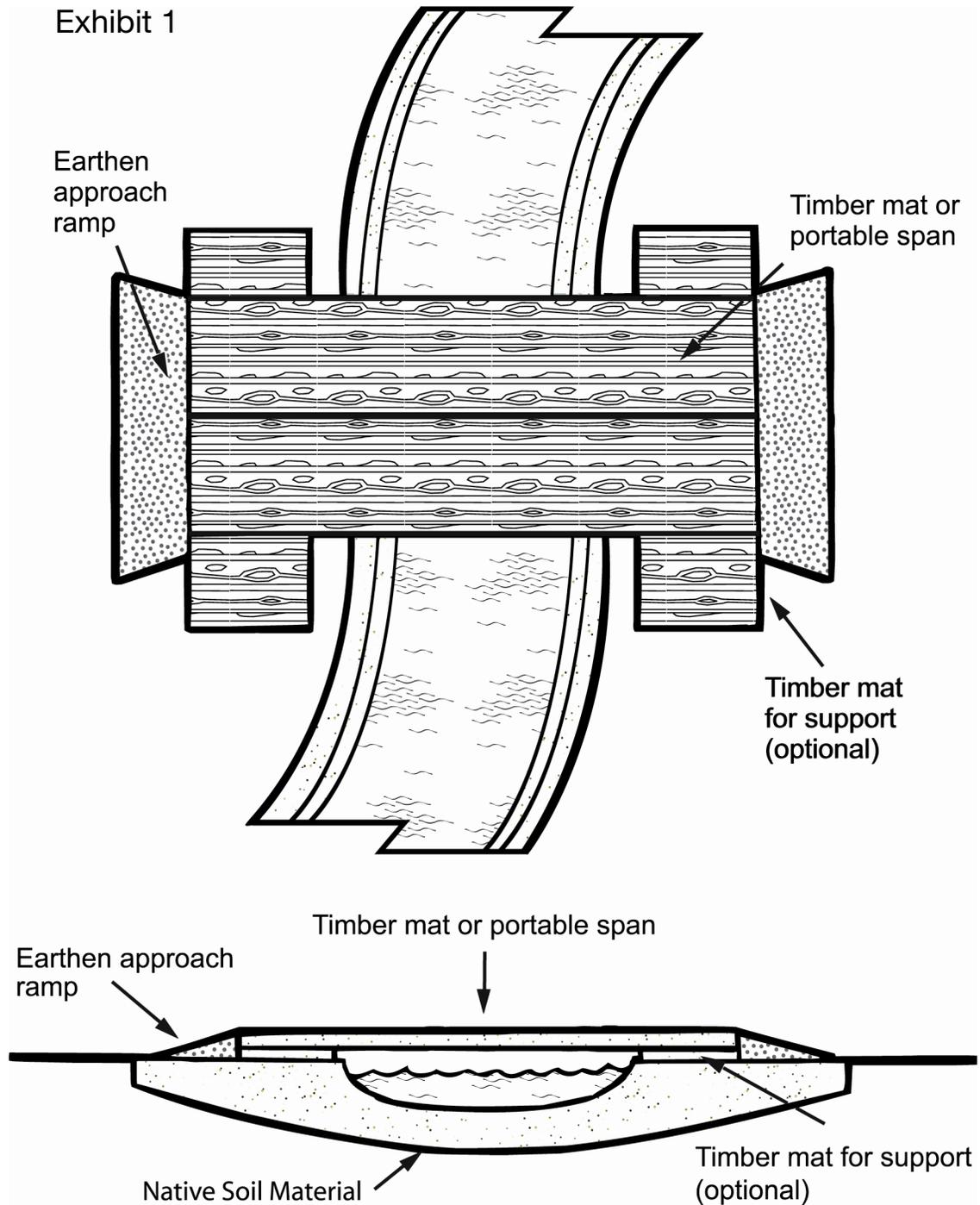


For information on this measure, see Chapter 7, page 223

This page was intentionally left blank.

Temporary Stream Crossing - Bridges

Exhibit 1



NOTE: This measure requires the designer to provide design specifications and dimensions.

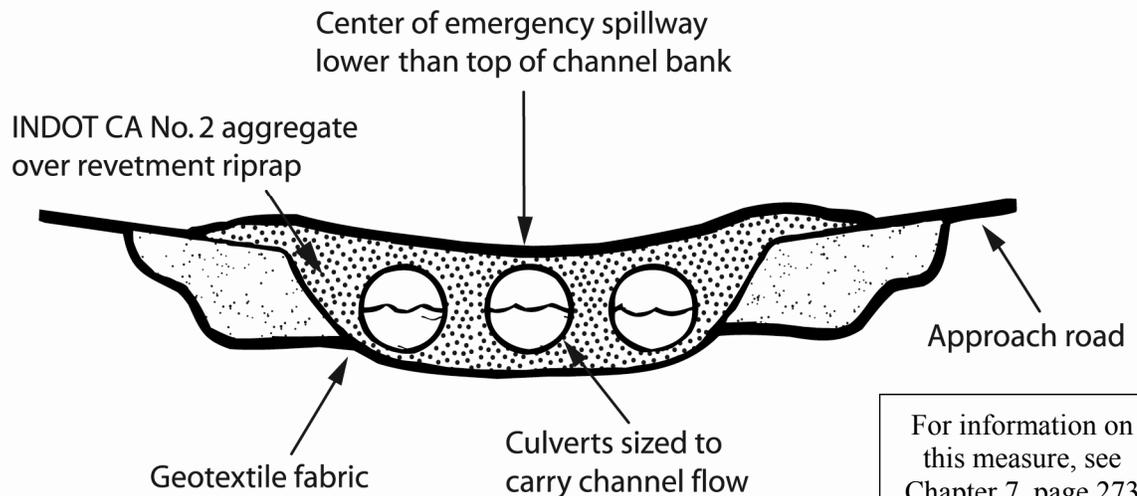
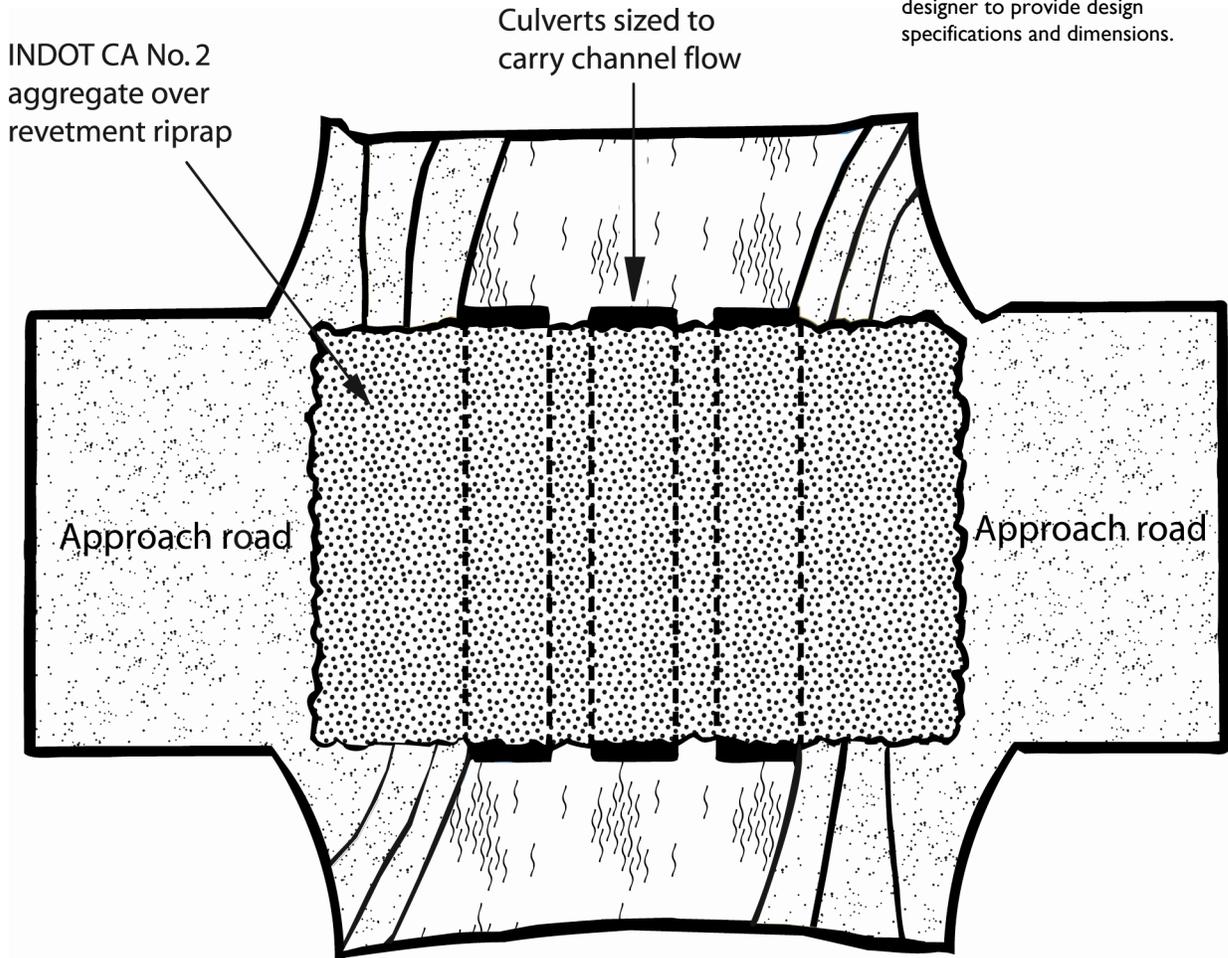
For information on this measure, see Chapter 7, page 267

This page was intentionally left blank.

Temporary Stream Crossing - Culverts

Exhibit 1

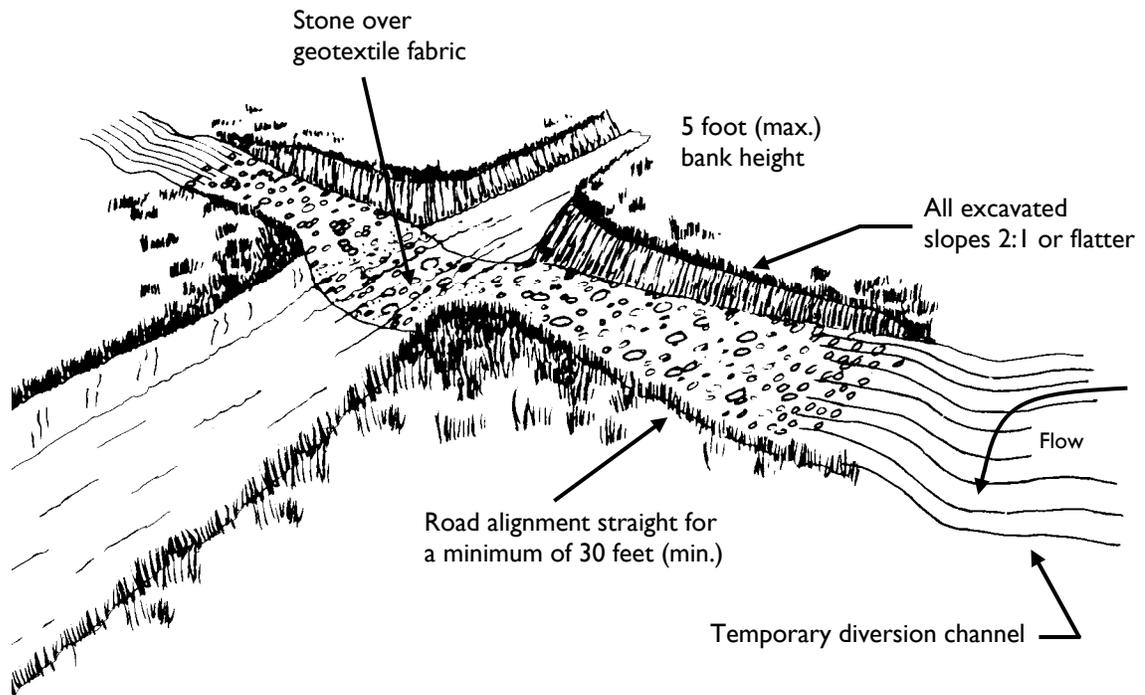
NOTE: This measure requires the designer to provide design specifications and dimensions.



This page was intentionally left blank.

Temporary Stream Crossing - Fords

Exhibit 1



NOTE: This measure requires the designer to provide design specifications and dimensions.

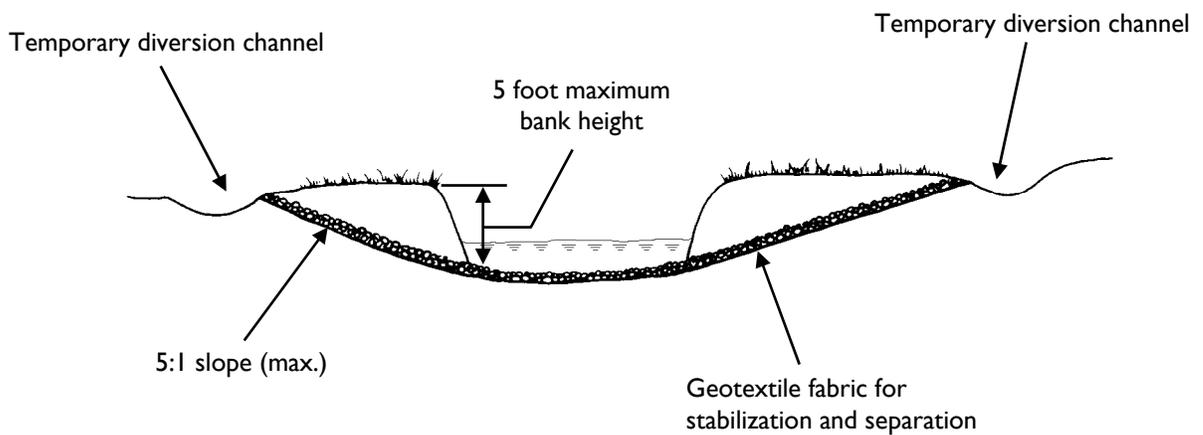
Source: Adapted from Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1992

For information on this measure, see Chapter 7, page 279

This page was intentionally left blank.

Temporary Stream Crossing - Fords

Exhibit 2



NOTE: This measure requires the designer to provide design specifications and dimensions.

Source: Adapted from Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1992

For information
on this measure,
see Chapter 7,
page 279

This page was intentionally left blank.