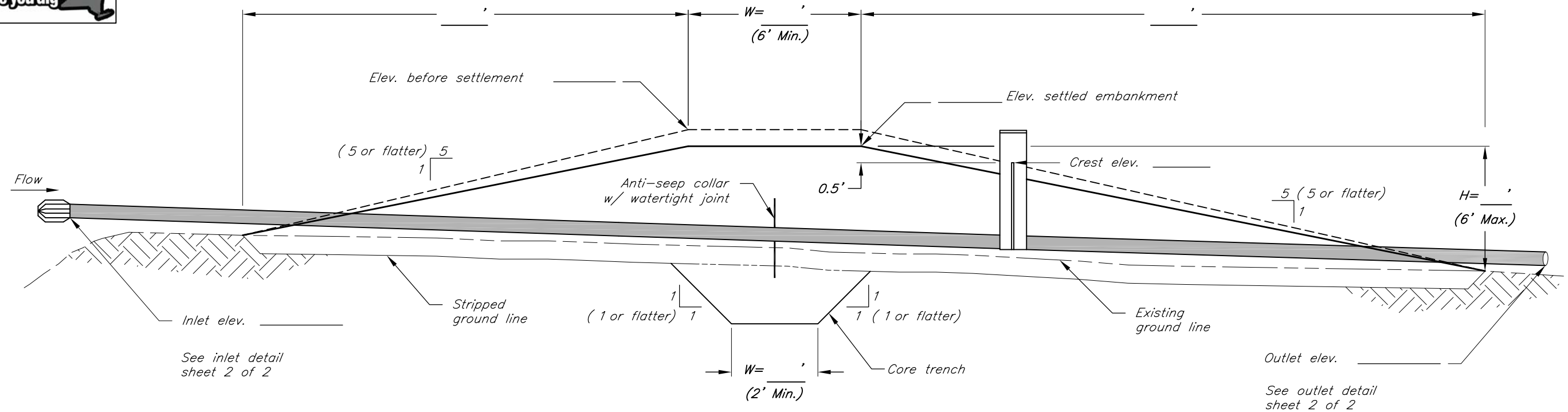
Dig Safely. New York
Call 811
before you dig

NY–ENG–JS659A_1–2
December 2004
July 2005



TYPICAL CROSS–SECTION

NOT TO SCALE

PLAN VIEW

NOT TO SCALE

B.M. Elev. _____

B.M. Desc. _____

_____

Date	
Designed	
Drawn	
Checked	
Approved	
Title	

WETLAND ENHANCEMENT – 659
LOW EMBANKMENT – TYPE A

United States Department of Agriculture

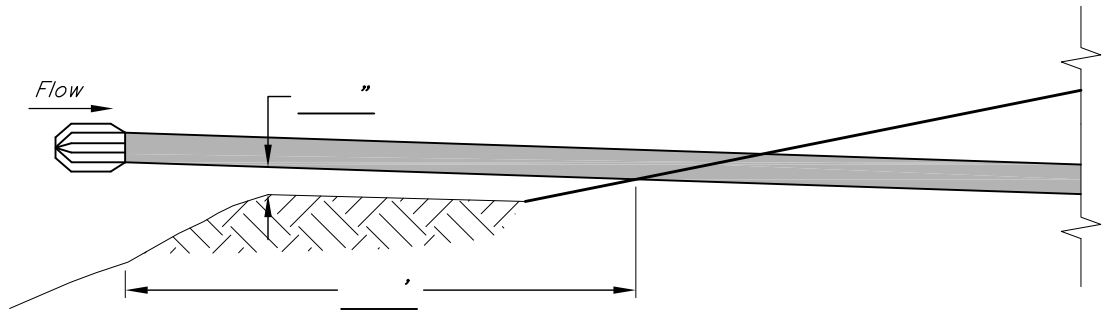
Natural Resources Conservation Service

NRCS Drawing Name

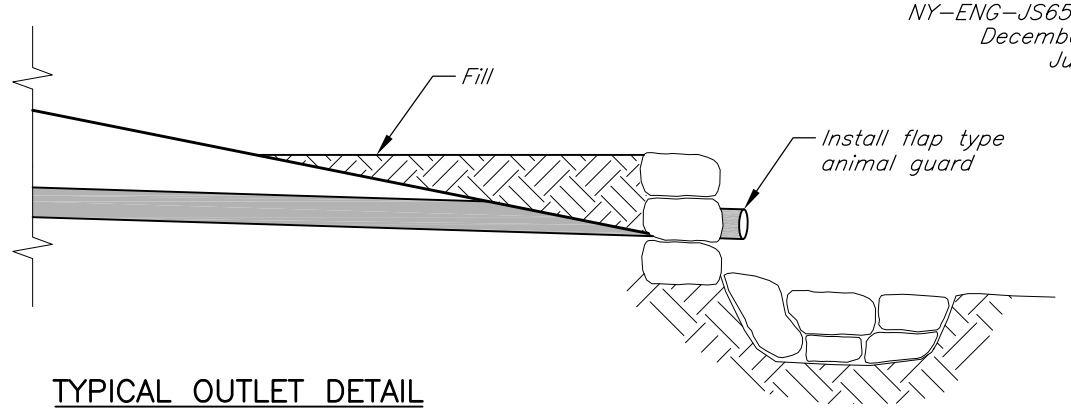
NRCS Project ID

Sheet of

NY–ENG–JS659A_1–2
December 2004
July 2005



TYPICAL INLET DETAIL



TYPICAL OUTLET DETAIL

CONSTRUCTION SPECIFICATIONS AND NOTES

1. *Remove all existing vegetation and topsoil from the footprint of the embankment. Topsoil shall be stockpiled for respreading on the embankment.*
2. *Core trench required when pool depth exceeds (2) feet. Locate trench along or parallel to center line of embankment, extending down to impervious layer. Use width of anticipated compaction equipment as bottom width with (2) feet as a minimum for hand compactors. Depth of trench should be at least (2) feet unless bedrock is encountered. Core trench fill shall be placed in layers not to exceed (9) inches and shall be compacted by a minimum of (3) passes of the construction equipment over the entire surface of the layer.*
3. *Fill material shall be obtained from shallow excavations at least (10) feet upstream from the toe of the embankment, or from a borrow source accepted by the approving official. Fill shall not contain vegetation, sod, frozen material, brush and roots, stones larger than (6) inches in diameter, or other objectionable material.*
4. *Embankment fill shall be placed in layers not to exceed (9) inches and shall be compacted by a minimum of (3) passes of the construction equipment over the entire surface of the layer.*
5. *Drain structure, if specified, shall have backfill materials placed and hand compacted in (4) inch layers up to (2) feet over pipe.*
6. *Pipe shall be anchored to prevent floating.*
7. *A minimum of 5% of the embankment height shall be added to the embankment to allow for settlement. (Elev. = settled elev. + 0.05 height).*
8. *The top surface of the embankment shall be graded to be smooth and free draining. Finished side slopes shall be no steeper than 5H to 1V (5:1).*
9. *Apply lime and fertilizer according to soil test recommendations.*
10. *The embankment shall be seeded upon completion according to the following specification.*

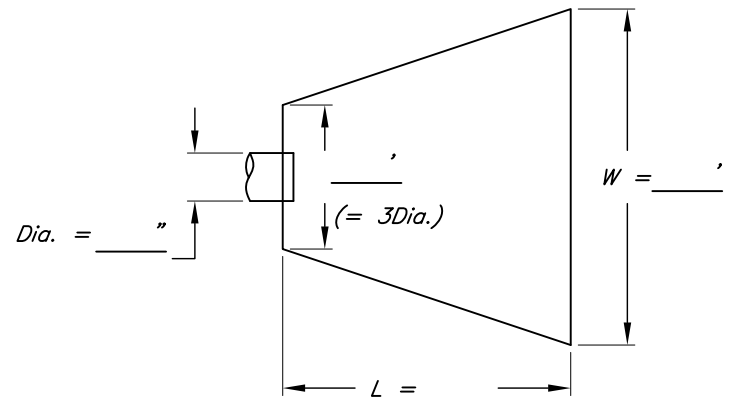
Unless otherwise specified, apply seed at the following rates:

Creeping Red Fescue (Ensylva)	*20 Lbs./Ac.*	*___ Lbs. total*
Red Top (Common)	*3 Lbs./Ac.*	*___ Lbs. total*
Birdsfoot Trefoil (Empire)	*8 Lbs./Ac.*	*___ Lbs. total*

Apply late season cover crop of: _____ (after Sept. 15)
___ Lbs. total
___ Lbs. total

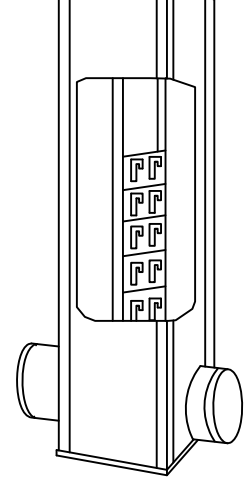
11. *Apply a mulch of straw or hay at a rate of (2) Tons/Ac.*

ROCK OUTLET PROTECTION					
Dia. (in.)	*L (ft.)*	*W (ft.)*	*D_{50} (in.)*	*Quan. (c.y.)*	*Thickness (in.)*
6	*5*	*6*	*4*	*.5*	*9*
8	*6*	*7*	*4*	*1*	*9*
10	*11*	*12*	*4*	*2.5*	*9*
12	*14*	*15*	*6*	*5.5*	*14*



ROCK OUTLET DETAIL

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Topsoil removal	*C.Y.*	
Core trench excavation	*C.Y.*	
Earthfill	*C.Y.*	
_____" Dia. pipe *Material _____*	*Ft.*	
Drain structure *_____" Dia. x _____" h*		*Anti–seep collar (specify material)* *_____"w x _____" h*



TYPICAL DRAIN STRUCTURE

Can be located upstream or downstream

Date
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Drawn
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Title

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