

# SILTWORM INSTALLATION SPECIFICATIONS

SILTWORM HEIGHTS INSTALLED		
NOMINAL DIAMETER, D	INSTALLED HEIGHT OF SINGLE SILTWORM	INSTALLED HEIGHT OF STACKED SILTWORM
9"	7.5"	15"
12"	9.5"	19"
18"	14.5"	29"
24"	19"	38"

MINIMUM SPECIFICATION FOR SILTWORM		
PROPERTY	UNITS	RANGE
PH	PH	5.0 - 8.5
MOISTURE CONTENT	% WET WEIGHT BASIS	< 20
PARTICLE SIZE	% PASSING SELECTED MESH SIZE, DRY WEIGHT BASIS	1½" - 2" - 90% FINES = 10% MAX. PARTICLE SIZE 2"

Siltworm can be placed in ditches or at the top, on the face, or at the toe of a slope as sediment trapping device. Siltworm can also serve to remove sediment from runoff and release filtered water as sheet flow.

Siltworm installation on a slope shall be placed along or on the ground contour. Where possible Siltworm applied to the toe of a slope should be placed 10 feet away from the toe in order to provide space for sediment storage. Maximum drainage area shall be depended upon slope and sheet flow.

For ditch applications, the maximum drainage area shall be 15 acres, at sites which outfall to exceptional water or sediment-impaired streams, the maximum drainage area shall be limited to 10 acres.

Siltworm shall be placed perpendicular to the flow of water. Siltworm shall continue up the side slopes to the up of bank or a maximum of 3 feet above the installed height. Siltworm shall remain in place until all upstream areas are permanently stabilized.

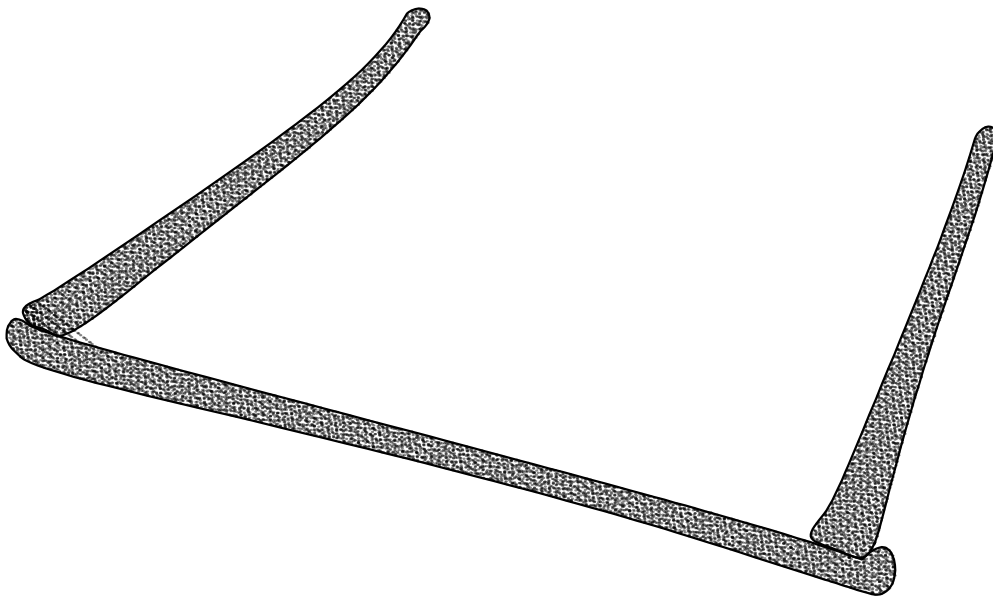
Siltworm is supplied and installed in diameters of 9", 12", 18" or 24" diameter Tolerances are 2". Siltworm will flatten out to an oval when in place, thus the installed height will be less than nominal diameter.

Siltworm shall be inspected after each runoff event and shall be removed and replaced if signs of undercutting or downstream spacing rills are observed.

Siltworm should be removed from slopes after stabilization is complete. This may be accomplished by cutting the Siltworm open and spreading the fill material on the site. Siltworm applied in ditch shall be completely removed.



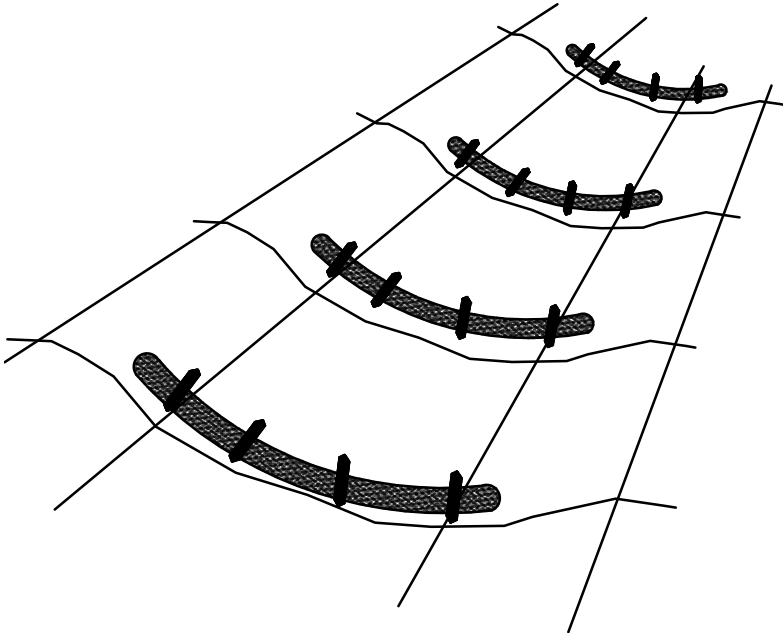
## PERIMETER CONTROL SPECIFICATIONS



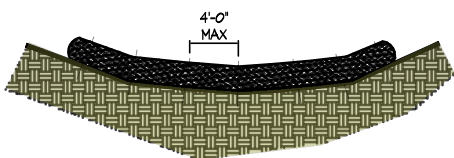
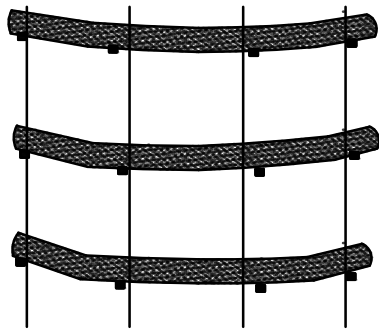
### PERIMETER CONTROL:

Place Siltworm directly on top of grade, and overlap ends a minimum of 6". Site preparation is minimal, and there is no staking or trenching requirement for grades under 12%. Arrange the Siltworm perimeter control in a manner that is applied perpendicular to sheet flow. Ensure ground contact.

# DITCH CHECK SPECIFICATIONS



SILTWORM SPACING FOR DITCH APPLICATION	
DITCH SLOPE	MAXIMUM SILTWORM SPACING
2%	80'
3%	80'
4%	50'
5%	30'
6%	20'
GREATER THAN 6%	20'



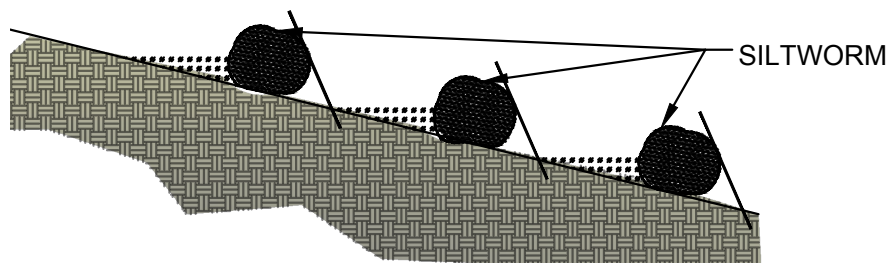
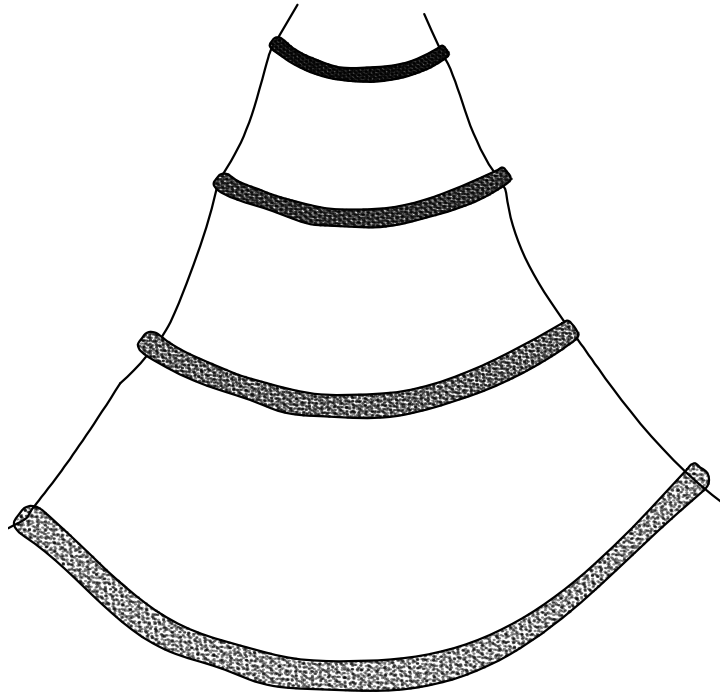
SILTWORM DITCH CHECK DAM ESTIMATED QUANTITIES						
	V - DITCH (1)			TRAPEZOIDAL DITCH (2)		
	24" SILTWORM (INSTALLED HEIGHT 19")	12" SILTWORM (INSTALLED HEIGHT 19")	18" SILTWORM (INSTALLED HEIGHT 29")	24" SILTWORM (INSTALLED HEIGHT 19")	12" SILTWORM (INSTALLED HEIGHT 19")	18" SILTWORM (INSTALLED HEIGHT 29")
LENGTH (FT)	20	60	48	24	72	60

- (1) ESTIMATED QUANTITIES BASED ON A 4:1 SIDE SLOPE. QUANTITIES WILL VARY BASED ON ACTUAL DITCH CONFIGURATION
- (2) ESTIMATED QUANTITIES BASED ON A 4 FT BOTTOM WIDTH, 4 FT DEPTH, AND 4:1 SIDE SLOPES. QUANTITIES WILL VARY BASED ON ACTUAL DITCH CONFIGURATION

Siltworm shall be placed perpendicular to the flow of water. Siltworm shall continue up the side slopes to the up of bank or a maximum of 3 feet above the installed height. Siltworm shall remain in place until all upstream areas are permanently stabilized.



## SLOPE INTERRUPTION



(P)

SILT WORM SPACING FOR SLOPE APPLICATION				
SLOPE	8"	12"	18"	24"
2%	70'	80'	N/A	N/A
5%	30'	60'	80'	N/A
10%	20'	30'	70'	80'
6:1	N/A	20'	40'	55'
4:1	N/A	20'	30'	30'
3:1	N/A	N/A	20'	25'
2:1	N/A	N/A	20'	20'

N/A = NOT RECOMMENDED SPACING NOT TO EXCEED 80'

SLOPE INTERRUPTION: MAXIMUM INTERVAL SPACING (IN FT.)					
CFS DIAMETER	2:1	3:1	5:1	10:1	25:1
8"Ø	30'	40'	75'	125'	200'
12"Ø	40'	50'	100'	150'	250'
18"Ø	50'	60'	125'	200'	300'
24"Ø	60'	70'	200'	300'	400'

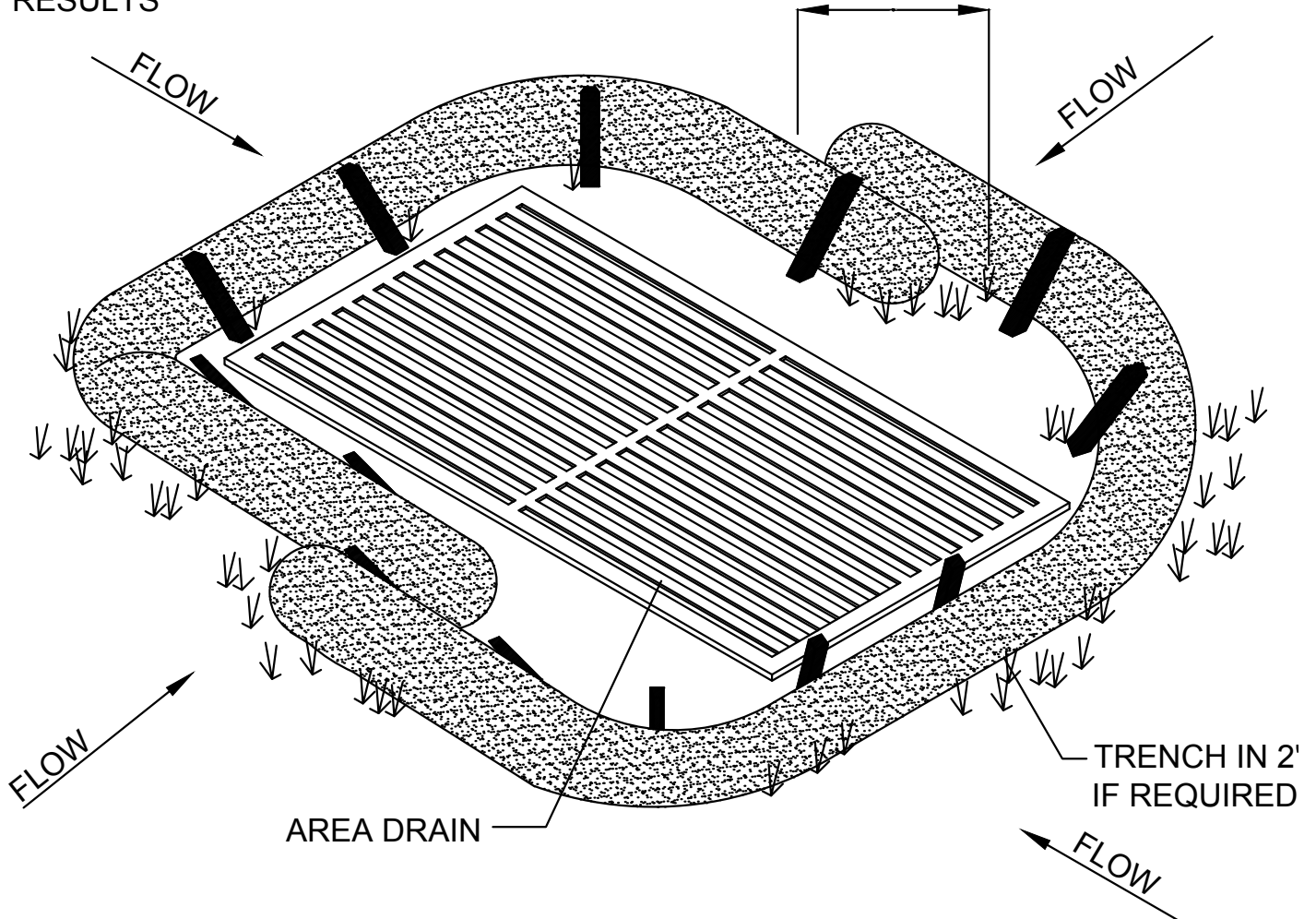


## AREA DRAIN

SILT WORM MINIMUM  
MAYBE STACKED AS  
REQUIRED  
STAKES AT 45°  
ANGLE FOR BEST  
RESULTS

STAKES ARE TO BE  
AT OPPOSITE  
ANGLES & OPPOSITE  
SIDES OF SILT WORM  
@ 4' O.C.

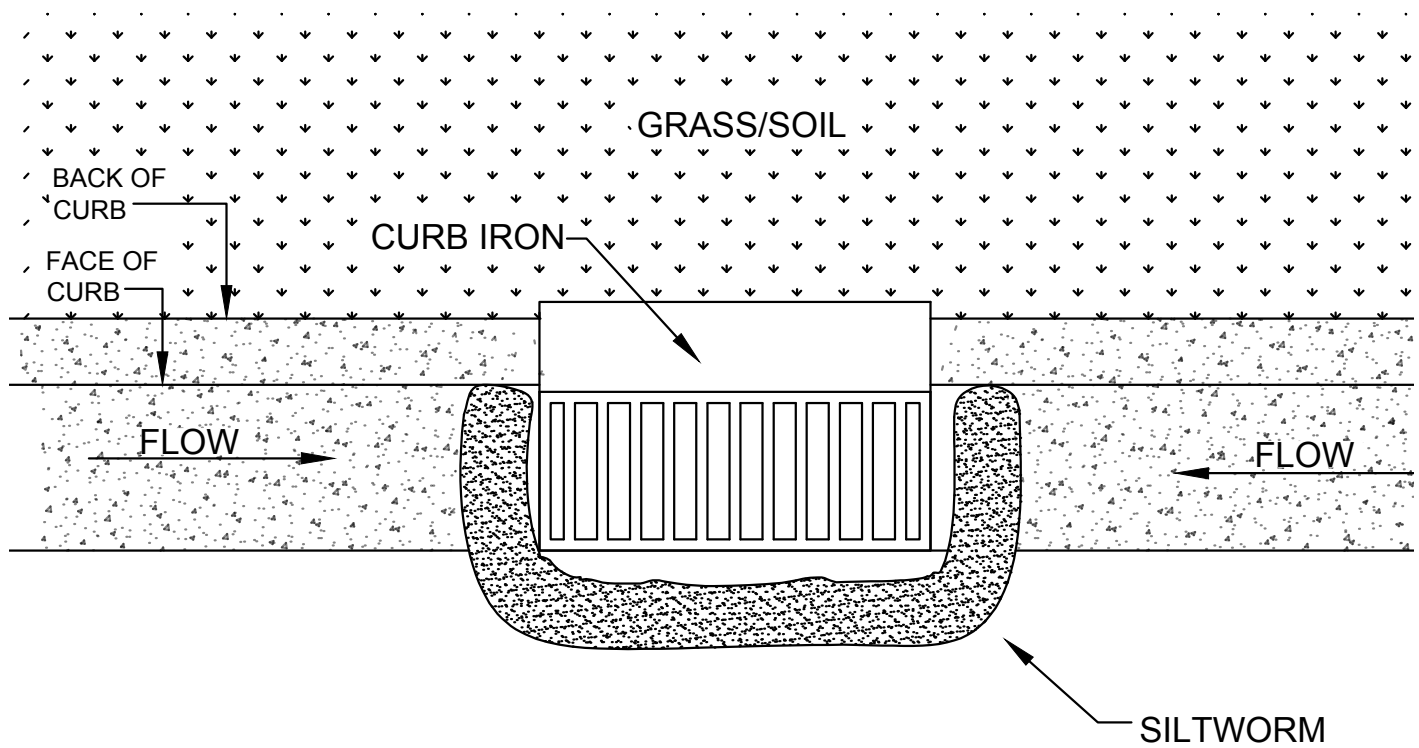
2' MINIMUM  
OVERLAP



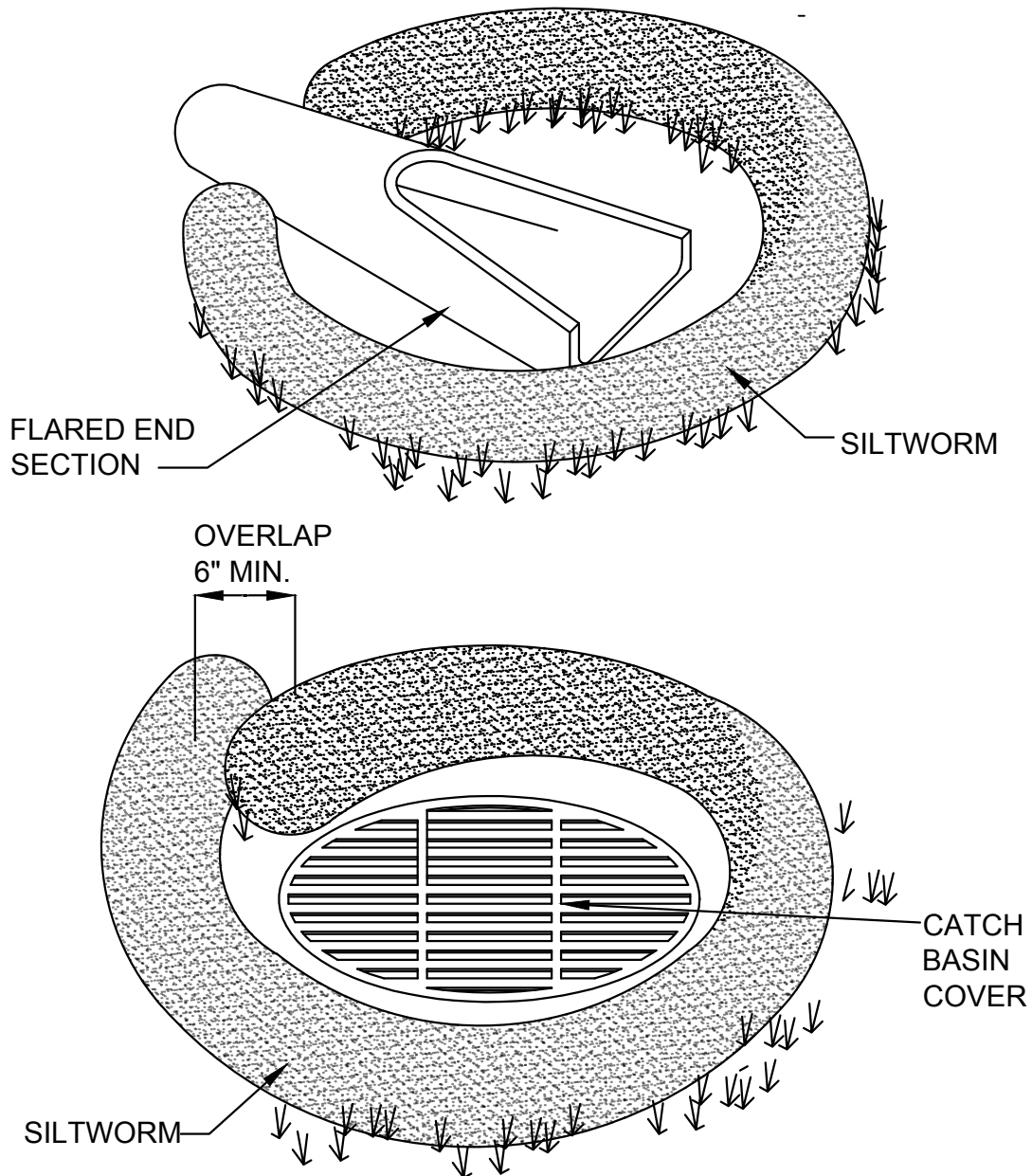


## CURB IRON DRAIN

SILT WORM MINIMUM  
MAYBE STACKED AS  
REQUIRED

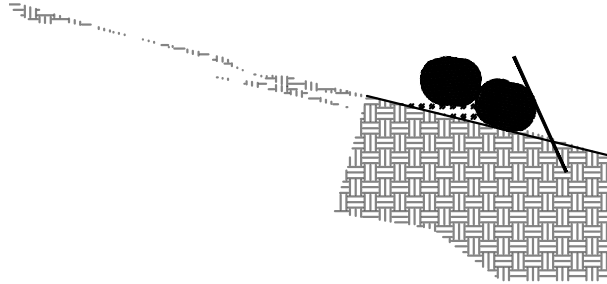


FLARED END SECTION





## MAINTENANCE DETAIL



Add additional line of defense when sedimentation reaches 50% height of the Siltworm

In the event that the Siltworm is run over with light vehicle traffic or compressed, reshape to original contour. In the event that netting is torn, add provided sleeve over existing torn area, or cut out the torn area and re-tie the new existing ends.