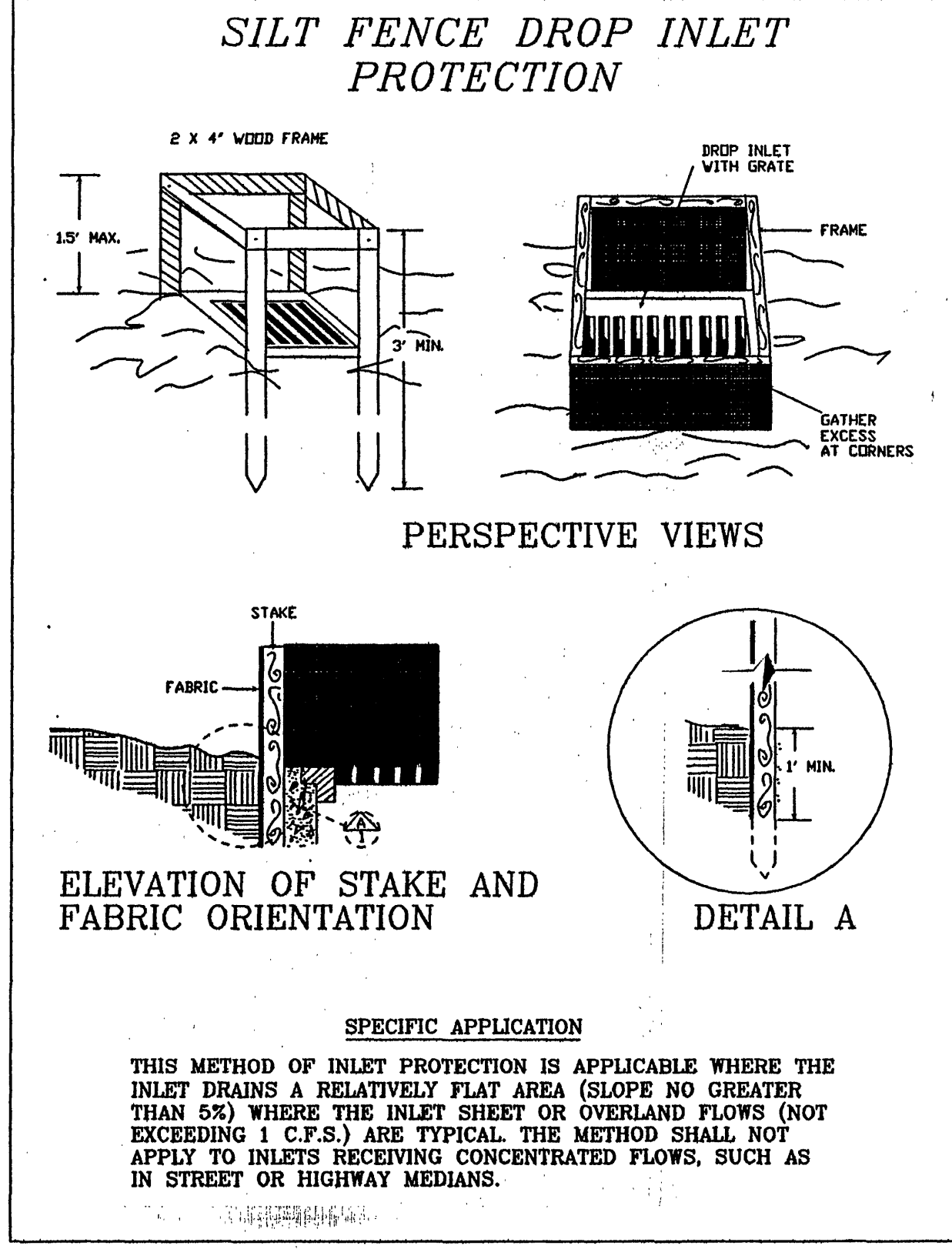
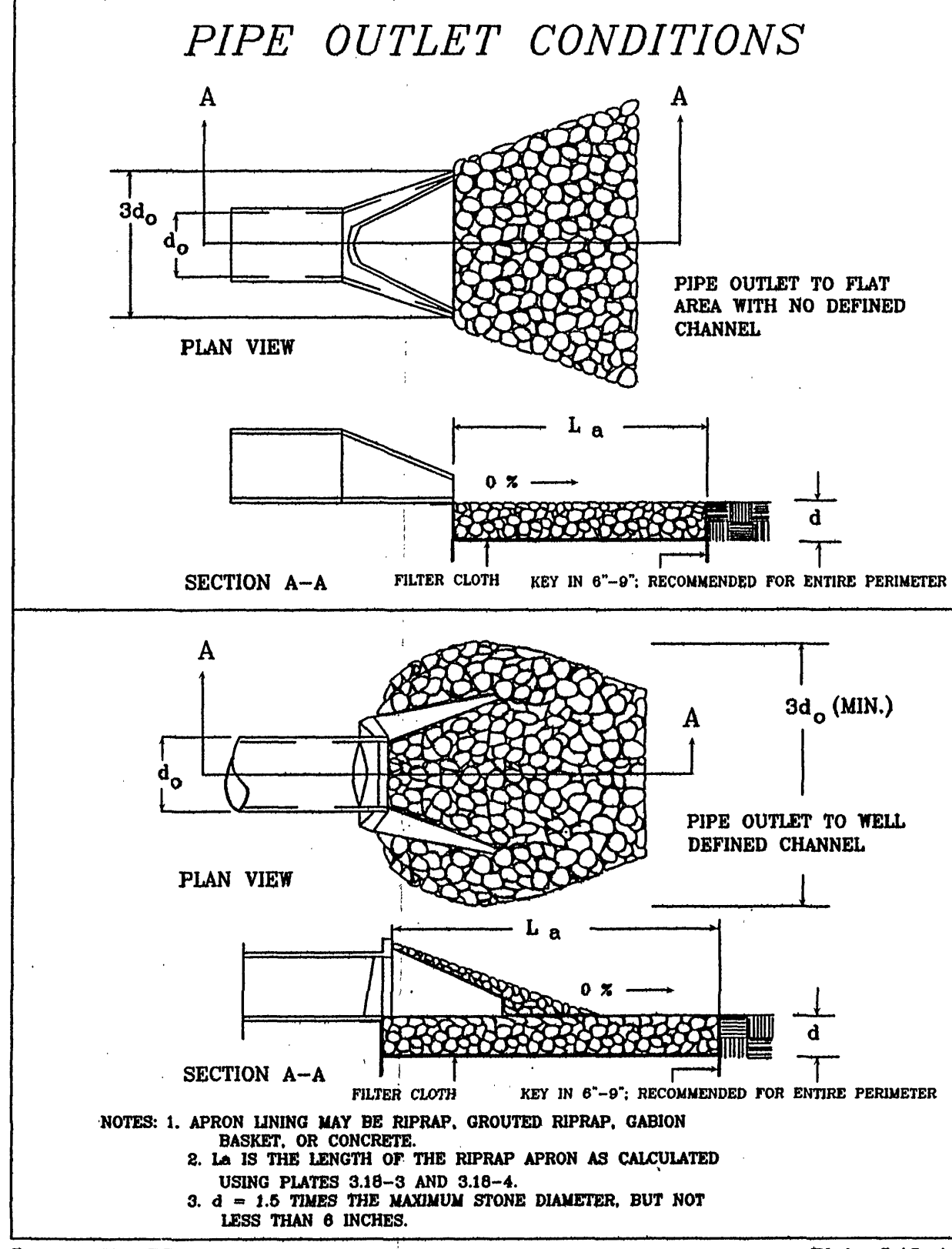


SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Va. DSWC Sherwood and Wyant



SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988



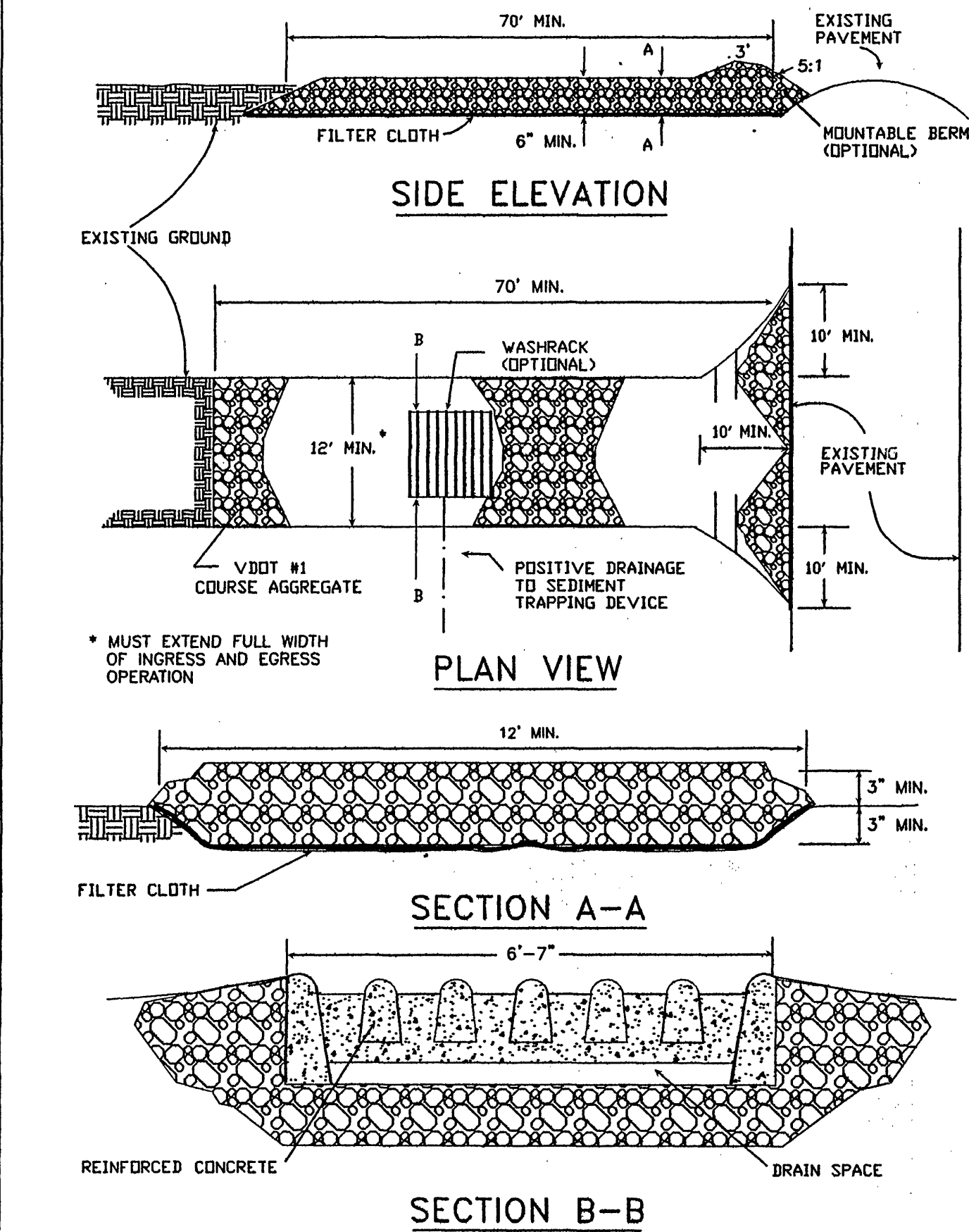
Source: Va. DSWC

### OUTLET PROTECTION

OUTLET PROTECTION SHALL BE INSTALLED AS FOLLOWS:

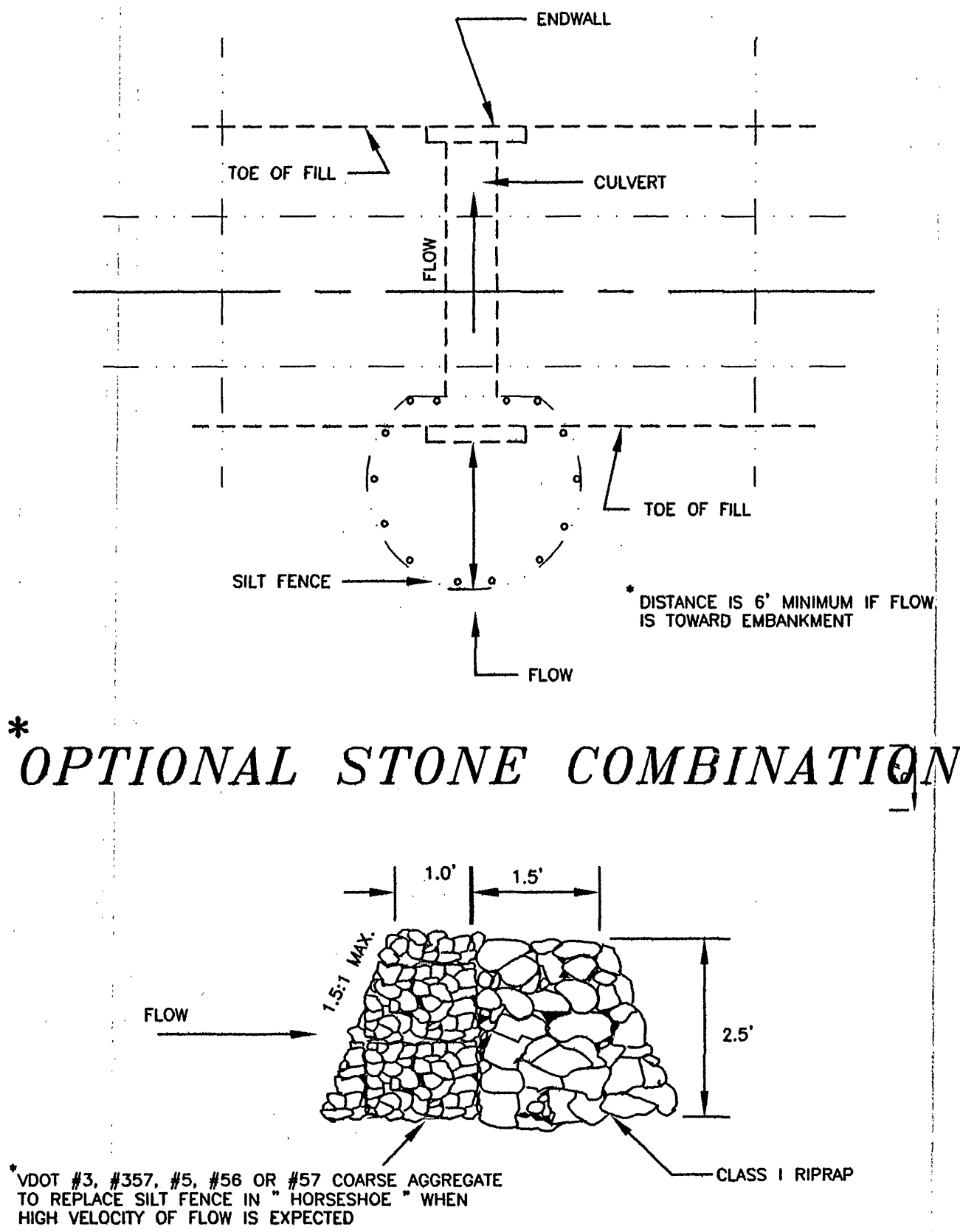
- |   |   |
|---|---|
| <p>STR. #1:<br/>UPSTREAM W = 4.5'<br/>DOWNSTREAM W = 11.5'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> <p>STR. #5:<br/>UPSTREAM W = 4.5'<br/>DOWNSTREAM W = 11.5'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> <p>STR. #6:<br/>UPSTREAM W = 4.5'<br/>DOWNSTREAM W = 11.5'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> <p>STR. #7:<br/>UPSTREAM W = 4.5'<br/>DOWNSTREAM W = 11.5'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> <p>STR. #10:<br/>UPSTREAM W = 9'<br/>DOWNSTREAM W = 13'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> | <p>STR. #11:<br/>UPSTREAM W = 6'<br/>DOWNSTREAM W = 12'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> <p>STR. #12:<br/>UPSTREAM W = 6'<br/>DOWNSTREAM W = 12'<br/>L = 10'<br/>D = 1.5' (D50 = 0.5')</p> <p>STR. #3:<br/>UPSTREAM W = 18'<br/>DOWNSTREAM W = 36'<br/>L = 30'<br/>D = 3' (D50 = 1')</p> |
|---|---|

### STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED from 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC

### SILT FENCE CULVERT INLET PROTECTION



SOURCE: ADAPTED from VDOT Standard Sheets and Va. DSWC

### STORM SEWER SCHEDULE

- |  |   |
|--|---|
| <p>1 142.08LF-18IN CMP @ 3.35%<br/>INV IN = 814.65'<br/>INV OUT = 810.00'<br/>VDOT ST'D ES-2 (OUTLET END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>2 VDOT ST'D MH-1<br/>TOP = 821.80'<br/>INV IN = 814.75'<br/>INV OUT = 814.65'</p> <p>3 79.68LF-18IN CMP @ 4.84%<br/>INV IN = 818.50'<br/>INV OUT = 814.75'</p> <p>4 VDOT ST'D DI-1<br/>TOP = 821.90'<br/>INV OUT = 818.50'</p> <p>5 53.96LF-18IN CMP @ 4.64%<br/>INV IN = 822.50'<br/>INV OUT = 820.00'<br/>VDOT ST'D ES-2 (EACH END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>6 171.02LF-18IN CMP @ 8.80%<br/>INV IN = 825.50'<br/>INV OUT = 810.50'<br/>VDOT ST'D ES-2 (EACH END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>7 150.99LF-18IN CMP @ 9.82%<br/>INV IN = 820.15'<br/>INV OUT = 805.50'<br/>VDOT ST'D ES-2 (OUTLET END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> | <p>8 VDOT ST'D MH-1<br/>TOP = 825.80'<br/>INV IN = 820.25'<br/>INV OUT = 820.15'</p> <p>9 122.08LF-18IN CMP @ 4.80%<br/>INV IN = 826.00'<br/>INV OUT = 820.25'<br/>VDOT ST'D ES-2 (INLET END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>10 125.83LF-36IN CMP @ 4.77%<br/>INV IN = 816.00'<br/>INV OUT = 810.00'<br/>VDOT ST'D EC-1 CL-1 (EACH END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>11 212.26LF-24IN CMP @ 5.31%<br/>INV IN = 817.25'<br/>INV OUT = 806.00'<br/>VDOT ST'D EC-1 CL-1 (EACH END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>12 123.20LF-24IN CMP @ 8.55%<br/>INV IN = 812.40'<br/>INV OUT = 802.00'<br/>VDOT ST'D ES-2 (OUTLET END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> <p>13 VDOT ST'D MH-1<br/>TOP = 819.50'<br/>INV IN = 812.50'<br/>INV OUT = 812.40'</p> <p>14 85.08LF-24IN CMP @ 1.88%<br/>INV IN = 814.00'<br/>INV OUT = 812.50'<br/>VDOT ST'D ES-2 (INLET END)<br/>LENGTH DOES NOT INCLUDE OUTLET PROTECTION</p> |
|--|---|

EROSION CONTROL DETAILS  
THE COTTAGES AT CONTENTMENT ISLAND  
LOCATED ON SMITH MOUNTAIN LAKE  
UNION HALL MAGISTERIAL DISTRICT  
FRANKLIN COUNTY, VIRGINIA

DATE: 10-04-02  
SCALE: AS SHOWN  
SHEET 11 OF 12  
PROJECT NO. 02023

REVISIONS	DESCRIPTION	DATE	APPROVAL
2-18-03			
1-09-03			
1 REVISION FOR VDOT, VDOT AND FRANKLIN COUNTY COMMENTS			
2 REVISION FOR VDOT			

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