

[illegible]

CONSTRUCTION SPECIFICATIONS			
<b>MATERIALS</b>			
1.	SYNTHETIC FILTER FABRIC SHALL BE A PREVIOUS SHEET OF PROPELLEN, VINYL POLYESTER OR EQUIVALENT, SHALL BE EXISTENT OF THE MANUFACTURER'S SUPPLY SHEET TO THE REQUIREMENTS OF THE FOLLOWING:		
2.	SYNTHETIC FILTER FABRIC SHALL COMPLY WITH ALL INQUIRIES AND BE STABILIZED TO PROVIDE A MINIMUM OF SIX MONTHS OF EFFECTIVE USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 150 °F.		
3.	IF WOODEN STAKES ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A STAKEHEAD OF 3 INCHES AND SHALL BE USED AS 12 INCHES WHEN THE LINE IS UNDER TENSION TO PROVIDE A MINIMUM OF 6 FEET.		
4.	IF STEEL POSTS (STANDARD "H" OR "I" SECTIONS) ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY SHALL BE USED AS 12 INCHES WHEN THE LINE IS UNDER TENSION TO PROVIDE A MINIMUM OF 6 FEET.		
5.	WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD-STRENGTH SILT CLUTS SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM BEND SPACING OF 6 INCHES.		
<b>INSTALLATION</b>			
1.	THE HEIGHT OF A SILT FENCE SHALL BE A MINIMUM OF 14 INCHES ABOVE THE DRIFTING GRADE SURFACE AND SHALL BE 60 INCHES ABOVE GRADE AT ELEVATION.		
2.	THE FILTER FABRIC SHALL BE PROCEEDED IN A CONTINUOUS ROLL, BUT TO THE LENGTH OF THE BARBERS TO AVOID THE USE OF WELDS. WELD JOINTS ARE NOT ALLOWED. THE FILTER FABRIC SHALL BE SPICED AT THE END OF EACH POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.		
3.	A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4-INCHES WIDE AND 4-INCHES DEEP ON THE UPRIVER SIDE OF THE PROPOSED LOCATION OF THE FENCE.		
4.	WHEN WIRE SUPPLY IS USED, STANDARD-STRENGTH FILTER CLUTS MAY BE USED TO PROVIDE THE TRENCH INSTALLATION SHALL BE A MINIMUM OF 6 INCHES DEEP. (SEE PLATE 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 6		

**TEMPORARY  
SEDIMENT TRAP**

TST

DEFINITION

A TEMPORARY PONDING AREA FORMED BY CONSTRUCTING AN EARTHEN EMBANKMENT WITH A STONE OUTLET.

PURPOSE

TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT.

CONSTRUCTION SPECIFICATIONS

- THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT.
- FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHOULD BE COMPACTED IN 6-INCH LAYERS BY TRAVERSING WITH CONSTRUCTION EQUIPMENT.
- THE EARTHERN EMBANKMENT SHALL BE SEEDED WITH TEMPORARY OR PERMANENT VEGETATION (SEE STD.& SPEC'S 3.31 AND 3.32) IMMEDIATELY AFTER INSTALLATION.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE UPSLOPE DRAINAGE AREA HAS BEEN STABILIZED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER (EXCEPT FOR EXCAVATED, WET STORAGE AREA WHICH MAY BE AT A MINIMUM 1:1 GRADE).

MAINTENANCE

- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVAL FROM THE BASIN SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
- FILTER STONE SHALL BE REGULARLY CHECKED TO ENSURE THAT FILTRATION PERFORMANCE IS MAINTAINED. STONE CHOKED WITH SEDIMENT SHALL BE REMOVED AND CLEANED OR REPLACED.
- THE STRUCTURE SHOULD BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE STONE OUTLET SHOULD BE CHECKED TO ENSURE THAT ITS CENTER IS AT LEAST 1 FOOT ABOVE THE TOP OF THE EMBANKMENT.

**TEMPORARY SEDIMENT TRAP**

The diagram shows a cross-section of a temporary sediment trap. On the left, the original ground elevations are shown as dashed lines. The trap consists of an embankment made of Class I riprap, which is 1' variable in height. Inside the trap, there is a layer of coarse aggregate (67 cu. yd./acre excavated) topped with a filter cloth. The outlet is also constructed from coarse aggregate (67 cu. yd./acre excavated) and has a 4' max. width. The outlet is 1.0' high above the top of the embankment. The outlet is labeled 'CLASS I RIPRAP' and 'COARSE AGGREGATE'. The filter cloth is labeled 'FILTER CLOTH'. The outlet is labeled 'OUTLET' and 'DIVERSION DITCH'. The length of the outlet is noted as 'LENGTH (ON FEED) = 8' X DRAINAGE AREA (ON AC.)'. The diagram also indicates 'ORIGINAL GROUND ELEV.' and 'CROSS SECTION OF OUTLET'.

\* SEE PLATE 3.13-1

**CROSS SECTION OF OUTLET**

This perspective view shows the outlet structure. It features a diversion ditch at the top, followed by a layer of Class I riprap. Below the riprap is a layer of coarse aggregate, which is excavated. A filter cloth is placed over the coarse aggregate. The entire structure is supported by a foundation of excavated material. The diagram labels 'CLASS I RIPRAP', 'LENGTH (ON FEED) = 8' X DRAINAGE AREA (ON AC.)', 'DIVERSION DITCH', 'COARSE AGGREGATE', 'EXCAVATED AREA', and 'FILTER CLOTH'.

\*\* COARSE AGGREGATE SHALL BE VDOT #3, #357 or #5

**OUTLET (PERSPECTIVE VIEW)**

SOURCE: VA, USWC

PLATE: 3.13-2

DESIGN

CONSTRUCTION ENTRANCE

CE

CONSTRUCTION SPECIFICATIONS

THE AREA OF THE ENTRANCE MUST BE EXCAVATED A MINIMUM OF 3 INCHES AND MUST BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE FILTER FABRIC UNDERLAYER MUST THEN BE PLACED THE FULL WIDTH AND LENGTH OF THE ENTRANCE.

FOLLOWING THE INSTALLATION OF THE FILTER CLOTH, THE STONE SHALL BE PLACED TO THE SPECIFIED DRAINAGE, IF WASH DRAINAGE IS USED, THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. CONVEYANCE OF SURFACE WATER UNDER ENTRANCE, THROUGH CULVERTS, MUST BE PROVIDED AS REQUIRED, IF SUCH CONVEYANCE IS IMPOSSIBLE, THE CONSTRUCTION OF A "NONDRAINAGE" DESIGN ON 5:1 SLOPES WILL BE PERMITTED.

THE FILTER CLOTH UTILIZED SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CURAN POLYMERIC FILAMENTS OR YARNS OF POLYESTER. THE FABRIC SHALL BE USED TO COMMONLY POLYMERIZED CHEMICALS AND HYDROCARBONS, BE MILDREW AND ROT RESISTANT, AND CONFORM TO THE PHYSICAL PROPERTIES NOTED IN TABLE 3.02-A.

MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OF THE WASHING AND REMOVALS OF EXISTING STONE AS CORRODING, DAMAGED AND REPAIR AND FOR CLEANUP OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR ONTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

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LOW SEEDING RATE

LOW SEEDING RATE

LOW SEEDING RATE

LOW SEEDING RATE

**TYPICAL PARABOLIC DIVERSION**

LOW SEEDING RATE

LOW SEEDING RATE

LOW SEEDING RATE

LOW SEEDING RATE

**TYPICAL TRAPEZOIDAL DIVERSION**

LOW SEEDING RATE

LOW SEEDING RATE

LOW SEEDING RATE

LOW SEEDING RATE

**TYPICAL VEE DIVERSION**

WHERE REQUIRED, SEWER SUBTRACTION METER/IRRIGATION LINE TO BE INSTALLED BY CONTRACTOR AT THE OWNER/DEVELOPER'S EXPENSE ON THE PRIVATE SIDE OF THE VAULT IN ACCORDANCE WITH WVAWA DESIGN AND CONSTRUCTION STANDARDS.

FIRE SERVICE STUB OUT

DOMESTIC SERVICE STUB OUT


ALUMINUM HATCH

PIPE IN

(A) METER FOR DOMESTIC SERVICE  
 (B) DOUBLE DETECTOR CHECK ON FIRE LINE  
 (C) PRESSURE REDUCING VALVE (PRV) SHALL BE INSTALLED BY WVAWA INSIDE THE VAULT FOR PRESSURES GREATER THAN 120 PSI. FOR PRESSURES BETWEEN 80 AND 120 PSI, PRV SHALL BE INSTALLED ON PRIVATE SIDE OF THE VAULT BY THE CONTRACTOR AT OWNER/DEVELOPERS EXPENSE.

**NOTES:**

1. FOR 8" FIRE LINE, EXTERIOR VAULT DIMENSIONS SHALL BE 8' X 6'
2. FOR 8" FIRE LINE, EXTERIOR VAULT DIMENSIONS SHALL BE 11' X 7'
3. VAULT TO BE FURNISHED AND INSTALLED BY WVAWA AT OWNER/DEVELOPERS EXPENSE,

		
PROJECT NUMBER: 80320900		
ISSUED FOR PERMIT & BID: 11/05		
REVISIONS:		
NO.	DESCRIPTION:	DATE:
△	PER CO. COMMENTS	4/26/06
△	PER CO. COMMENTS	6/13/06
△		
△		
PROJECT MANAGER: BKB		
DRAWN BY: NPR		
DRAWING TITLE: <b>Erosion &amp; Sediment Control Details</b>		
DRAWING NUMBER: <b>C5.4</b>		

EROSION AND SEDIMENT CONTROL COST ESTIMATE				
E&S MEASURE	QUANTITY	UNIT	UNIT PRICE	COST
Construction entrance	1	L.S.	\$2,500.00	\$2,500.00
Silt fence	401	L.F.	\$3.00	\$1,203.00
Inlet protection	9	EACH	\$500.00	\$4,500.00
Outlet protection (riprap)	52	TON	\$35.00	\$1,820.00
Temporary seeding	0.65	ACRE	\$2,500.00	\$1,625.00
Sodding	0.55	ACRE	\$10,000.00	\$5,500.00
Sediment trap	1	EACH	\$6,000.00	\$6,000.00
Diversion Dike	470	L.F.	\$2.50	\$1,175.00
Diversion	187	L.F.	\$5.00	\$935.00
Right of Way Diversion	97	L.F.	\$2.00	\$194.00
Temporary Slope Drain (18)	29	L.F.	\$20.00	\$580.00
GRAND SUBTOTAL				\$26,032.00
CONTRACTOR'S PROFIT (10%)				\$2,603.20
TOTAL PROJECT COST				\$28,635.20

TEMPORARY SEDIMENT TRAP DATA							
STRUCTURE	DRAINAGE	STORAGE	STORAGE	WEIR	WEIR	WEIR	BERM
	AREA (AC)	REQUIRED (CY)	DESIGN (CY)	LENGTH (FT)	HEIGHT (FT)	WIDTH (FT)	HEIGHT (FT)
1	0.36	3818	5265	3	2	2.5	3