Document last modified: 6/12/15

Page   Correction

iii   Karl **Kerchner**, Lebanon County Conservation District

3   URL link has been changed to:
     http://www.deq.virginia.gov/Portals/0/DEQ/Water/Publications/TechBulletin1.pdf

35   3rd paragraph, 1st sentence: 2,000 cubic feet storage capacity (with 12" freeboard) for each
     tributary drainage acre.

62   Last paragraph, 1st sentence: "As with other sediment barriers, compost socks should not be
     placed in areas of concentrated flow. They should be placed parallel…"

64

TABLE 4.2
Compost Standards

Organic Matter Content	**25% - 100%** (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - **8.5**
Moisture Content	**30% - 60%**
Particle Size	**30% - 50**% pass through **3/8" sieve**
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

77   (f) Add the slope length (L_1) from step (a) to the result from step (e). This is the maximum
     allowable slope length for the entire slope.

88   Note under Standard Construction Detail # 4-12 : "Adapted from Lebanon County
     Conservation District"

111   Table 5.2 – The runoff coefficient for Construction Sites, Bare Packed soil, smooth
          A Soils >6% Slopes: Should be 0.40, not 0.04
          B Soils, 2-6% Slopes: Should be 0.40, not 0.04

112

$$T_{c(sheet\,flow)} = \left[\frac{2(L)(n)}{3(S)^{0.5}} \right]^{0.4673}$$

124   Equation for 2-year storm

$$I = \frac{170}{T_c + 17} = \frac{170}{23.24 + 17} = \frac{170}{40.24} = 2.63 in/hr$$

124   Equation for 10-year storm

$$I = \frac{170}{T_c + 23} = \frac{170}{26.19 + 23} = \frac{170}{49.19} = 3.46 in/hr$$

Page   Correction

125   Overland Flow Time T_{of} = 11.6 and T_c = 23.24

135   Note under Table 6.6 should reference PennDOT Pub 408 section 850.2(a)2.

160   Item 7 – The recommended minimum surface area (SA_{min}) at the top of the settling volume (elevation 3)…

          q_{out} = basin discharge rate at elevation 3 on E&S Worksheet #15.

          Item 13 – 1st sentence should refer to Standard Construction Detail # 7-17.

172   Third line should read "…Standard Construction Detail #7-18"…

182   Third line should read "…Standard Construction Detail #7-18"…

186   Second line should read "…Standard Construction Detail #7-18"…

193

STANDARD CONSTRUCTION DETAIL # 7-12
Sediment Basin Emergency Spillway with Riprap Lining
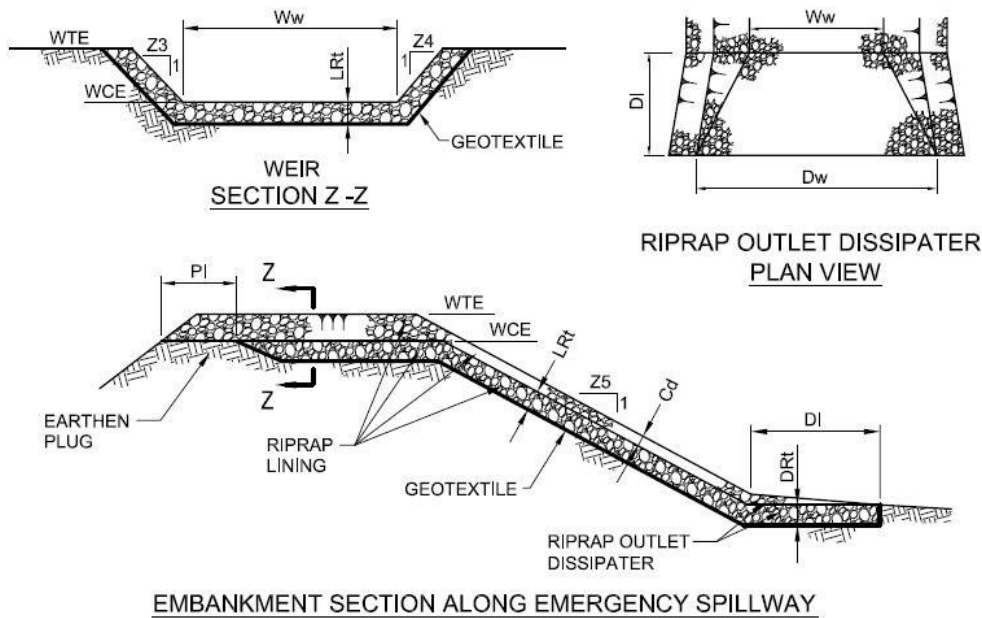
227

TRAP NO.	Z1 (FT)	Z2 (FT)	RISER		BARREL					EMBANKMENT		CLEAN OUT ELEV. COE (FT)	BOTTOM ELEV. BE (FT)
			BOT. PERF. ELEV. (FT)	CREST ELEV. (FT)	MAT'L	DIA. Db (IN)	INLET ELEV. BIE (FT)	LENGTH BI (FT)	OUTLET ELEV. BOE (FT)	TOP ELEV. ETE (FT)	TOP WIDTH ETW (FT)		

229   For equation: $Q_f = \dfrac{0.464}{n} D^{8/3} S^{1/2}$

                            n = Manning's "n"

Page	Correction

247    $X=(V^2/2g)^{0.5} [(1+m/p)^{0.5} +1+ m/2p]\, p^{0.5}$

266   Table 11.2 should state that the Permanent Fertilizer Type/rate would be 10-20-20 at 1000 lbs./ac

268   2. If high-quality seed is used, for most sites seed spring oats at a rate of 2 bushels per acre, winter wheat at **1.5** bushels per acre, and winter rye at 1 bushel per acre. If germination is below 90%, increase these suggested seeding rates by 0.5 bushel per acre.

278   Topsoil should be applied and prepared as described on page 263 prior to sod placement.

281   Figure 11.6, Notes: 1. CELLS SHALL BE ANCHORED SECURELY TO PREVENT DISPLACEMENT...

291

STANDARD CONSTRUCTION DETAIL # 13-4
Typical Trench Plug Installation
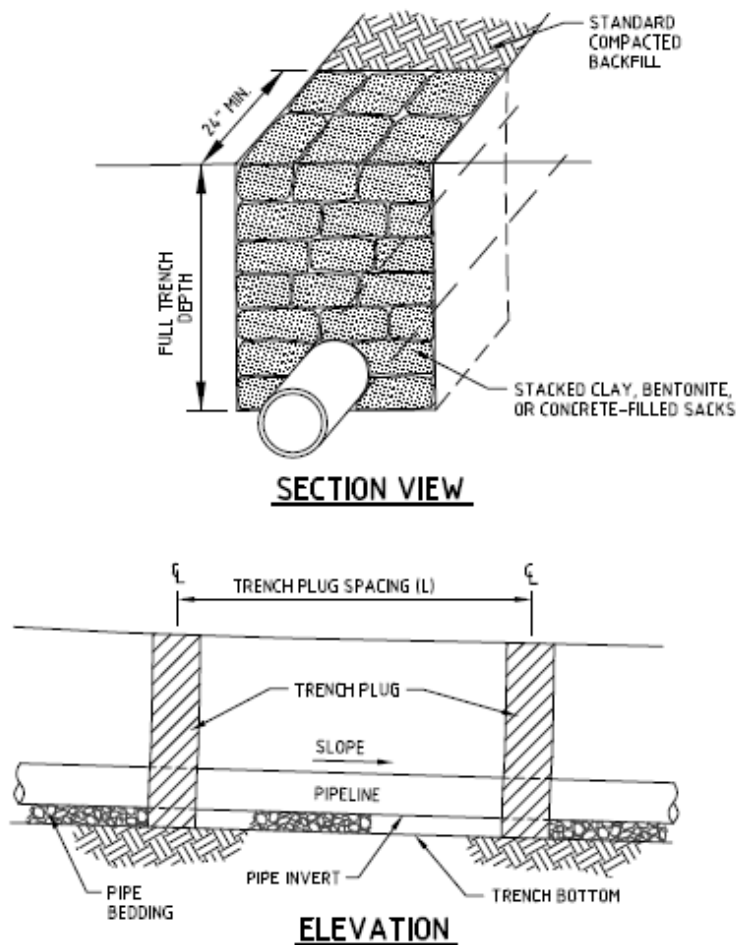
293   Under Table 13.2 the following note should be added: **Permanent waterbars are required at all stream, river, and other water-body crossings as well as upslope from roadway and railroad cut slopes.**

<u>Page</u>   <u>Correction</u>

380

$$T_{c(sheet\,flow)} = \left[\frac{2(L)(n)}{3(S)^{0.5}} \right]^{0.4673}$$

384   Worksheet #13 – Lines 12 and 13 should read:

(SAmin) REQUIRED SURFACE AREA AT ELEVATION 3   (SQ. FT.)
SURFACE AREA PROVIDED AT ELEVATION 3   (SQ. FT.)

387   Note 2 should say "From E&S Worksheet #14, sixth column"