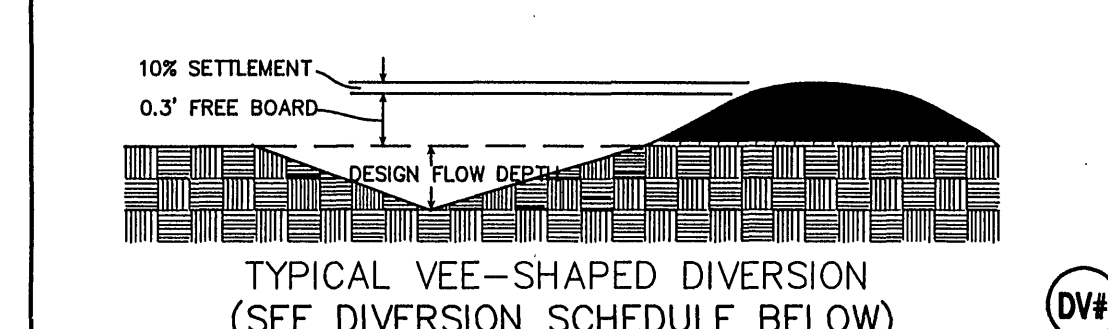
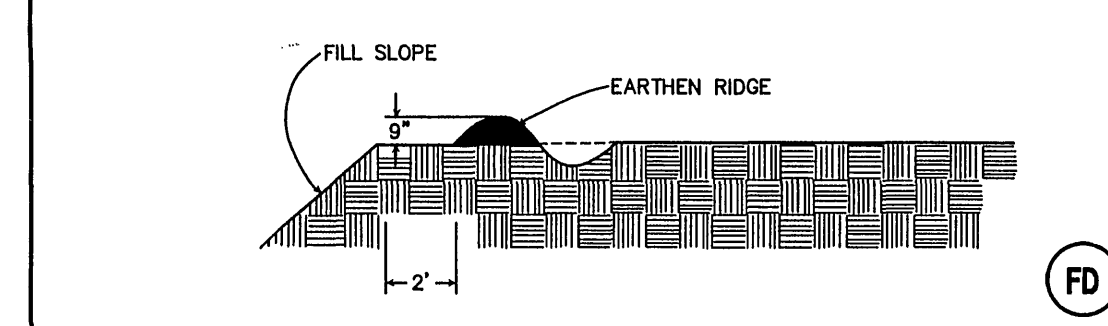
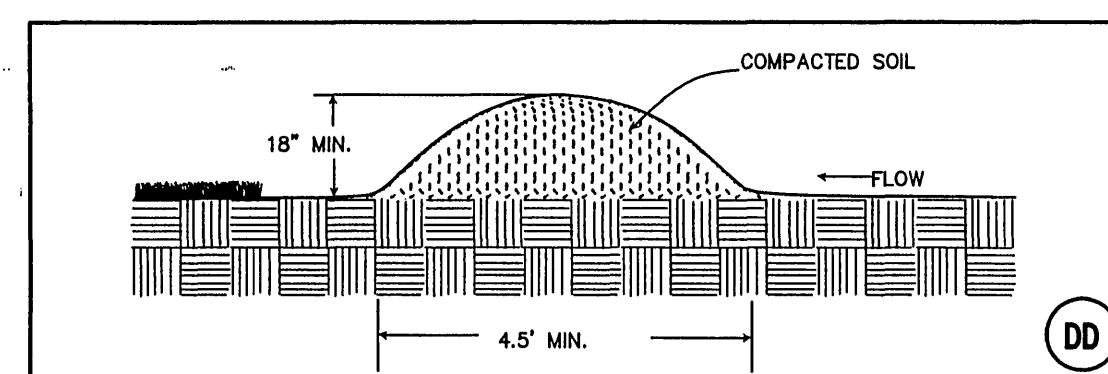


EROSION & SEDIMENT CONTROL COST ESTIMATE				
ALL COSTS GIVEN ARE COMPLETE IN PLACE				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA	1	\$2,500	\$2,500
SILT FENCE	LF	2302 LF	\$2.00	\$4,604
INLET PROTECTION	EA	5	\$500.00	\$2,500
TEMPORARY DIVERSION DIKE	LF	1682 LF	\$3.00	\$5,046
TEMPORARY FILL DIVERSION	LF	403 LF	\$3.00	\$1,209
SEDIMENT TRAP	EA	3	\$1,800.00	\$5,400
TEMPORARY SLOPE DRAIN	LF	140	\$20.00	\$2,800
ROCK CHECK DAMS	EA	2	\$25.00	\$50
CULVERT INLET PROTECTION	EA	3	\$200.00	\$600
DIVERSIONS	LF	1090	\$13.00	\$14,170
TEMP. SEEDING	1000 SF	286,210 SF	\$42.00	\$12,021
PERMANENT SEEDING	1000 SF	211,077 SF	\$55.00	\$11,609
TREE PROTECTION	LF	325 LF	\$3.60	\$1,170
SURFACE ROUGHENING	AC.	1.00 AC.	\$1,000.00	\$1,000
CONSTRUCTION ROAD STABILIZATION	SQ. YD.	1,125 SQ. YD.	\$3.00	\$3,375
MULCHING	AC.	0.92 AC.	\$2,000.00	\$1,840
TOPSOILING	AC.	1.00 AC.	\$1,000.00	\$1,000
DUST CONTROL	LUMP SUM		\$1,000.00	\$1,000
SUBTOTAL COST				\$71,894
25% CONTINGENCY				\$17,973.50
TOTAL PROJECT COST				\$89,867.50

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE THE FIELD CONDITIONS OF THE ENTERPRISE WARRANT SUCH MODIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO ROANKE COUNTY.
7. THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT, AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.
8. THIS SHEET MAY NOT BE MODIFIED EXCEPT FOR TABLES

TOTAL DISTURBED AREA = 7.27 AC. = 316,567 SQ. FT.



NO SCALE

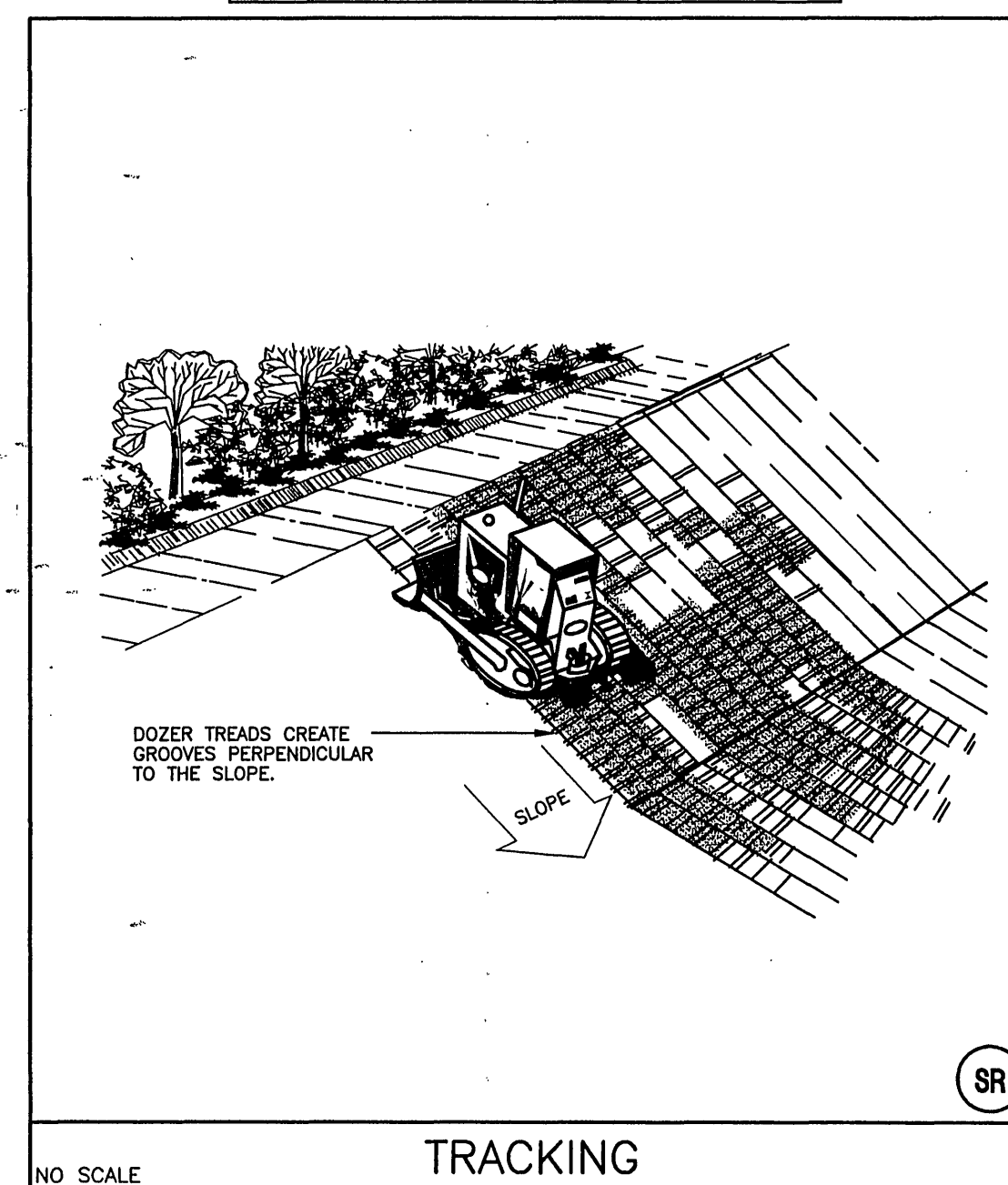
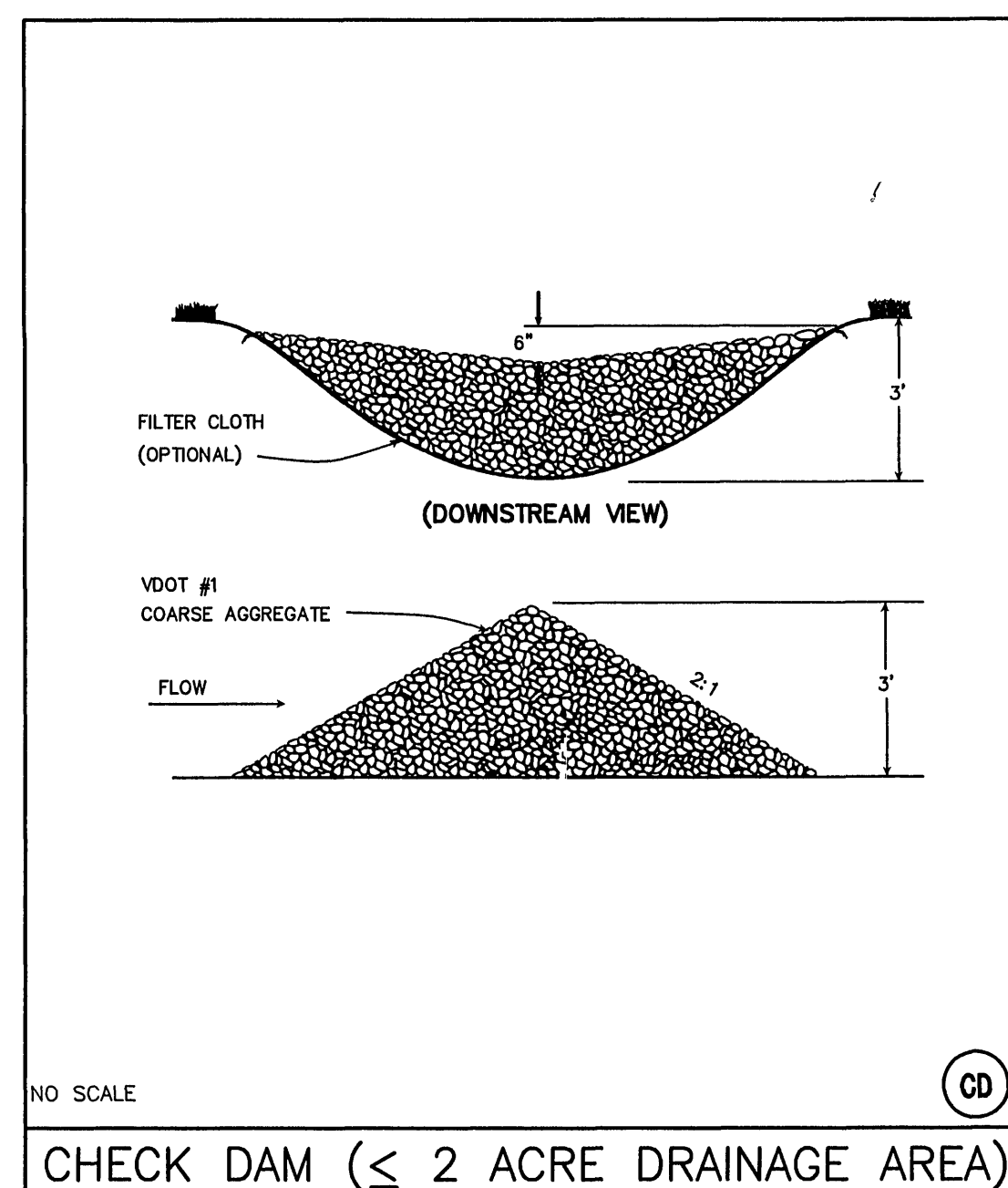
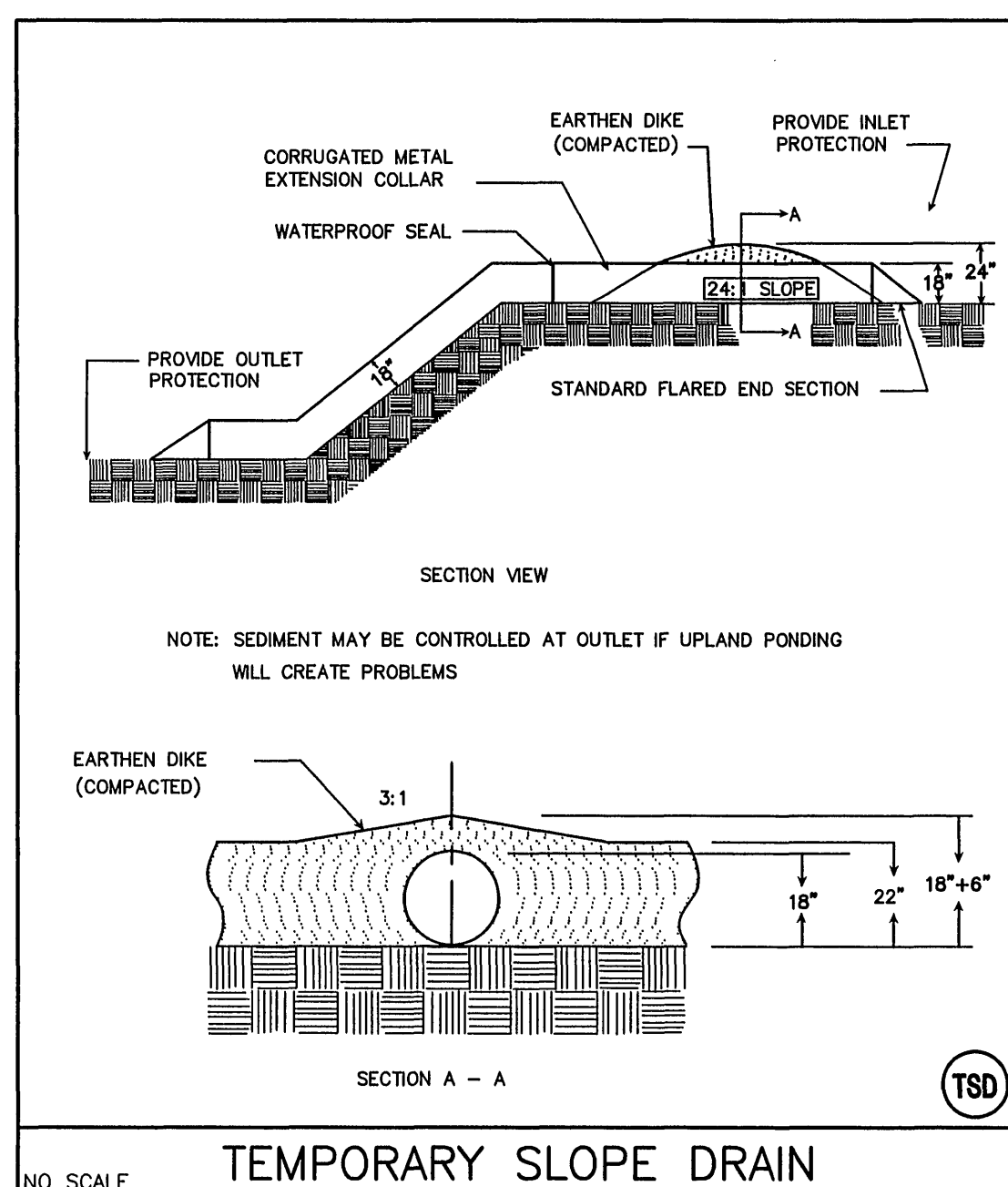
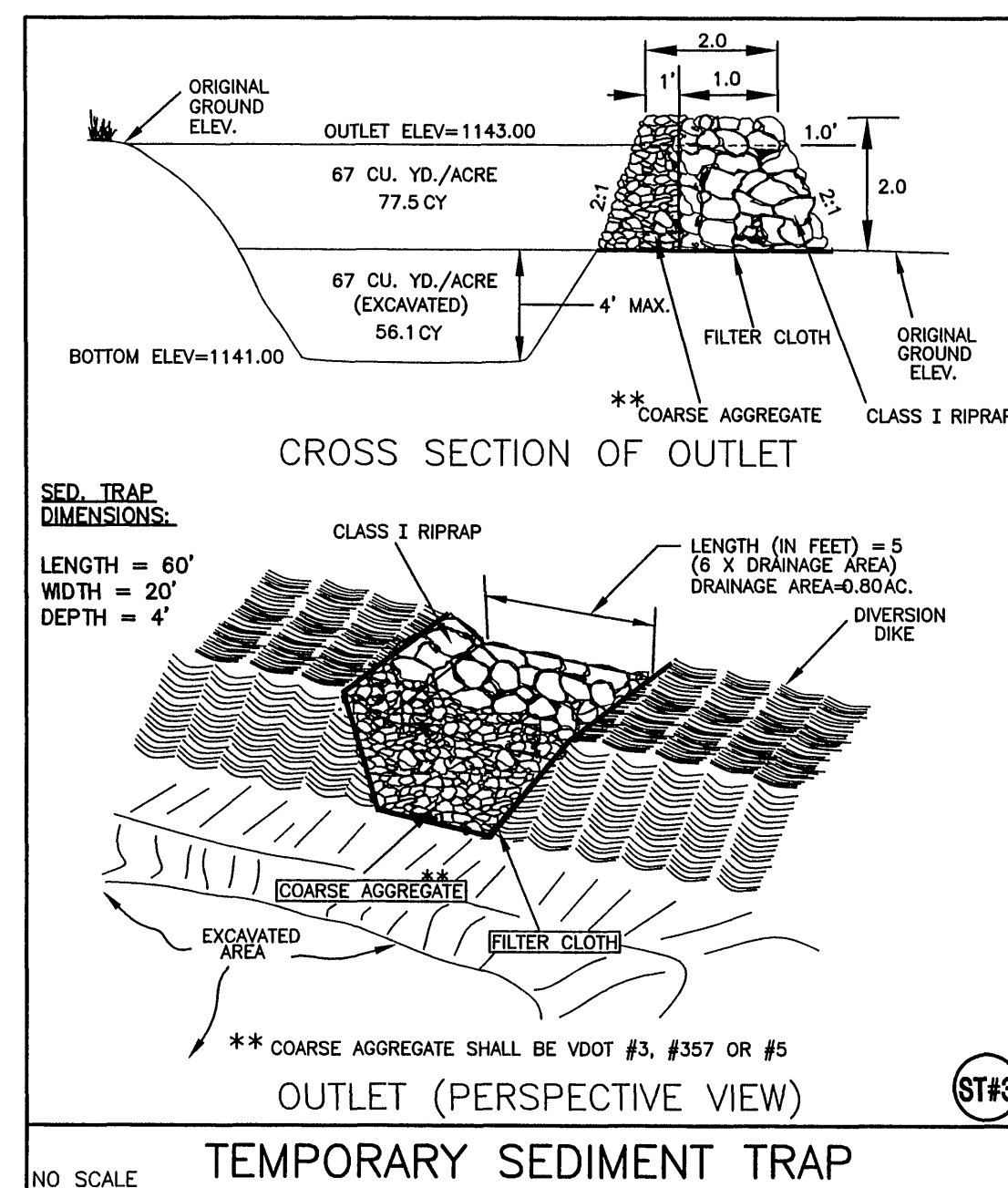
DIVERSIONS

Plate 3.12

Source: Va. DSWC

DIVERSION SCHEDULE

DIVERSION DESIGNATION	BOTTOM WIDTH	SIDE SLOPE	DEPTH	LINING
DV#1	0	2:1	0.75'	GRASS
DV#2	0	2:1	0.75'	GRASS
DV#3	0	2:1	0.75'	GRASS
DV#4	0	2:1	0.75'	EG-2



TS	<u>TEMPORARY SEEDING MIXTURE</u>
1 SEPTEMBER TO 15 FEBRUARY	50/50 MIX OF ANNUAL RYEGRASS (<i>Iolium multiflorum</i>) & CEREAL (Winter) RYE (<i>Secale cereale</i>) 50-100 LB / ACRE (1-2 LB / 1000 SF)
15 FEBRUARY TO 30 APRIL	ANNUAL RYEGRASS (<i>Iolium multiflorum</i>) 60-100 LB / ACRE (2 LB / 1000 SF)
1 MAY TO 31 AUGUST	GERMAN MILLET 50 LB / ACRE (1 LB / 1000 SF)
LIME:	90 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE
FERTILIZER:	10-10-10 ● 10 LB / 1000 SF
MULCH:	IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
SOIL CONDITIONING:	INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE CONTRACTOR.
SEED APPLICATION:	APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.
TOTAL SEEDED AREA = 6.57 AC. = 286,210 S.F.	
TS	<u>SEEDING SCHEDULE</u>

PS

PERMANENT SEEDING MIXTURE

TYPE A

15 OCTOBER TO 1 FEBRUARY
 K-31 FESCUE ● 5 LB / 1000 SF
 BORZY WINTER RYE ● 1/2 LB / 1000 SF

1 FEBRUARY TO 1 JUNE
 K-31 FESCUE ● 5 LB / 1000 SF
 ANNUAL RYE ● 1/2 LB / 1000 SF

1 JUNE TO 1 SEPTEMBER
 K-31 FESCUE ● 5 LB / 1000 SF
 GERMAN MILLET ● 1/2 LB / 1000 SF

1 SEPTEMBER TO 15 OCTOBER
 K-31 FESCUE ● 5 LB / 1000 SF
 ANNUAL RYE ● 1/2 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER)

15 MARCH TO 1 MAY
 CROWN VETCH ● 1/2 LB / 1000 SF
 PERENNIAL RYEGRASS ● 1/2 LB / 1000 SF
 RED TOP ● 1/8 LB / 1000 SF

15 AUGUST TO 1 OCTOBER
 CROWN VETCH ● 1/2 LB / 1000 SF
 PERENNIAL RYEGRASS ● 1/2 LB / 1000 SF
 RED TOP ● 1/8 LB / 1000 SF

LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE

FERTILIZER: 5–20–10 ● 25 LB / 1000 SF
 35–0–0 ● 7 LB / 1000 SF

MULCH: IF REQUIRED, SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

SOIL CONDITIONING:

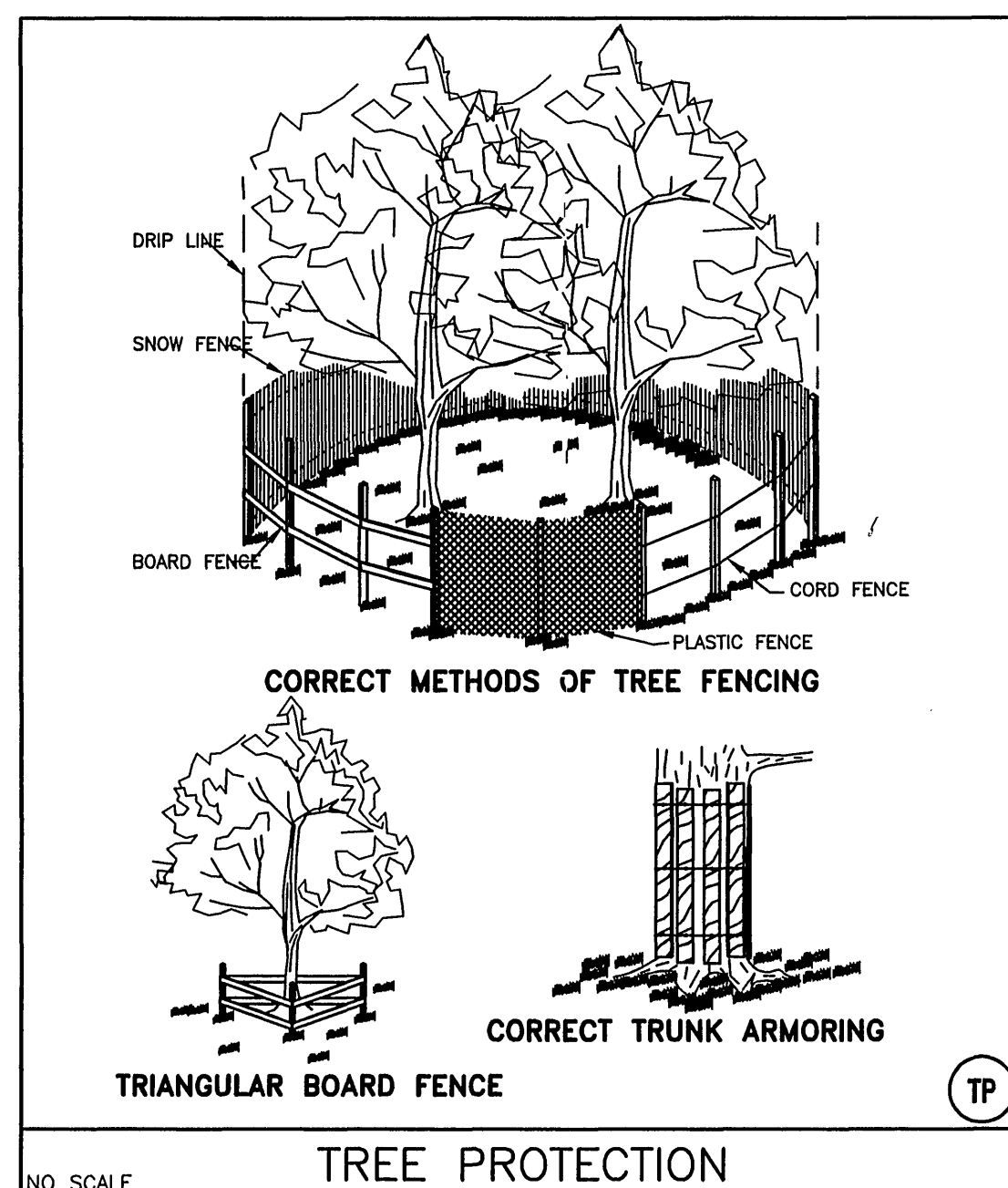
INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

TOTAL SEEDED AREA = 4.8 AC. = 211,077 S.F.

SEEDING SCHEDULE

PS



**Department of
Community Development**

COUNTY OF ROANOKE, VA.

Erosion & Sediment Control Details

SHEET
C5-03

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