

1/2" BM-25.0 BASE COURSE

---- PER PLAN -------

4" GRVL. BASE

— 4" CONCRETE

. SCORE JOINTS SHALL BE PROVIDED MIN. EVERY 12.5'

INTERVALS WITH BITUMINOUS EXPANSION USED @ 25'

STD. DUTY CONCRETE

1. CONCRETE TO BE 3500psi (A.E.)

·6"21-B SUB-BASE

COMPACTED SUB GRADE TO

95%MAX. DENSITY PER ASTM

#8 x 6" width

SECTION C-C

SECTION D-D

GRATE DETAIL

APPROXIMATE WEIGHT

Cast Iron

Grate 363 ± 18 lbs

Za" ___ | 1½"

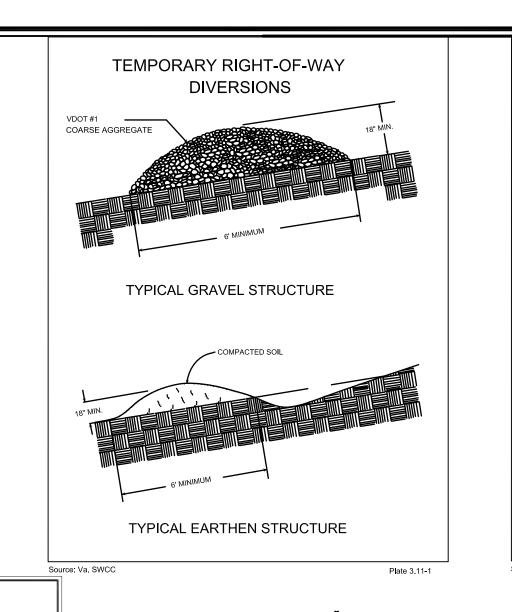
STANDARD DROP INLET

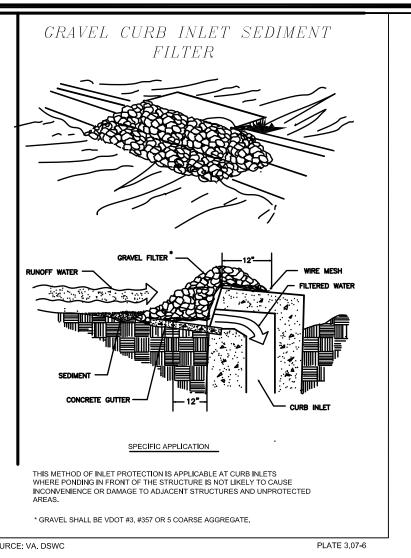
VIRGINIA DEPARTMENT OF TRANSPORTATION

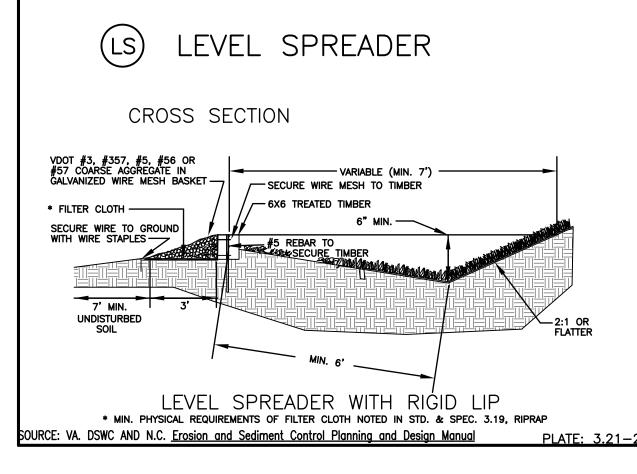
SCALE: N.T.S.

12" - 24" PIPE: MAXIMUM DEPTH (H) = 10"

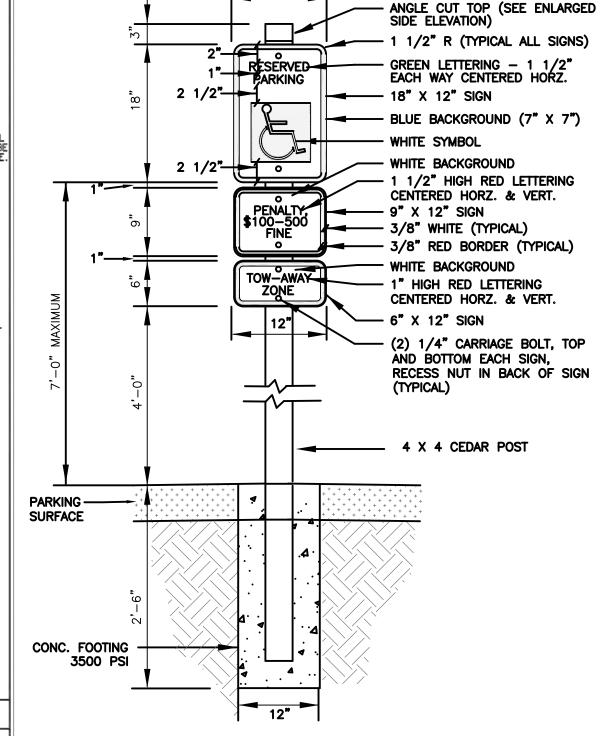
-1 1/2" SM-9.5A WEARING COURSE

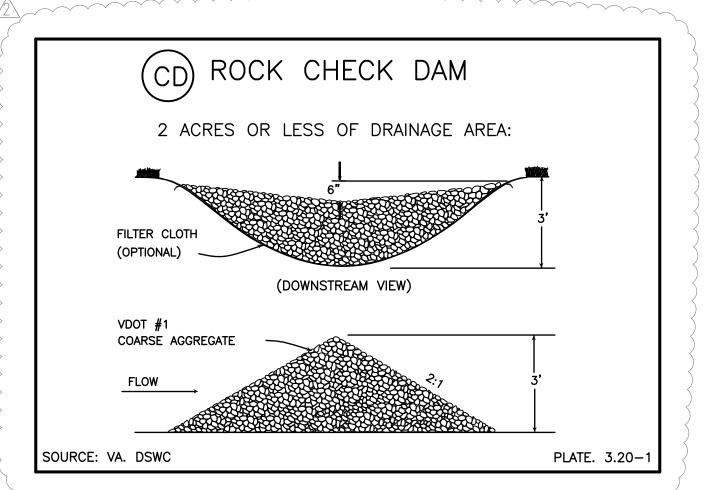






NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF	SAF)	3.20	ROCK CHECK DAMS		-)-)-
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	(CE)		3.21	LEVEL SPREADER	LS	
3.03	CONSTRUCTION ROAD STABILIZATION	(CRS)	(CRS)	3.22	VEGETATIVE STREAMBANK STABILIZATION	vss	(SS)
3.04	STRAW BALE BARRIER	STB		3.23	STRUCTURAL STREAMBANK STABILIZATION	(SSS)	(SSS)
3.05	SILT FENCE	SF	-X X X X-	3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	
3.06	BRUSH BARRIER	ВВ	(2000000)	3.25	UTILITY STREAM CROSSING	USO	
3.07	STORM DRAIN INLET PROTECTION	(IP)		3.26	DEWATERING STRUCTURE	DS	→
3.08	CULVERT INLET PROTECTION	CIP		3.27	TURBIDITY CURTAIN	TO	DV
3.09	TEMPORARY DIVERSION DIKE	OD	00	3.28	SUBSURFACE DRAIN	SD	
3.10	TEMPORARY FILL DIVERSION	FD	FD	3.29	SURFACE ROUGHENING	SR	SR SR
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD	RWD	3.30	TOPSOILING	10)	(10)
3.12	DIVERSION	(DV)	(DV)	3.31	TEMPORARY SEEDING	TS	- (3T)
3.13	TEMPORARY SEDIMENT TRAP	ST		3.32	PERMANENT SEEDING	PS	PS
3.14	TEMPORARY SEDIMENT BASIN	SB		3.33	SODDING	So	\$0
3.15	TEMPORARY SLOPE DRAIN	TSD	(TSD)	3.34	BERMUDA GRASS AND ZOYSIAGRASS ESTABLISHMENT	(BEZE)	B OR
3.16	PAVED FLUME	PF	PF)	3.35	MULCHING	MU	
3.17	STORMWATER CONVEYANCE CHANNEL	SCO		3.36	SOIL STABILIZATION BLANKETS AND MATTING	B W	TREAT. 1 TREAT. 2
3.18	OUTLET PROTECTION	OP)		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	(VEG)	VEG
3.19	RIPRAP	RR		3.38	TREE PRESERVATION AND PROTECTION	P	TP
				3.39	DUST CONTROL	00	



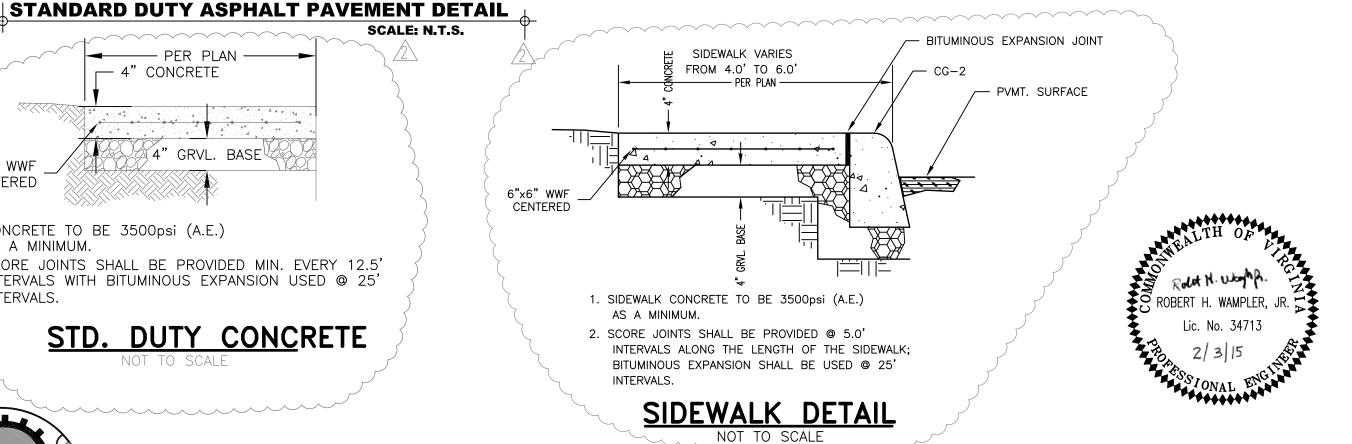


AUTHORITY.

ACHIEVED.

POST TOP SIDE ELEVATION

HANDICAPPED PARKING SIGN



REFERENCE

233

302

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE ONSITE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN

SEDIMENT CONTROL PLAN & NARRATIVE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE EROSION AND SEDIMENT CONTROL ADMINISTRATOR WILL DELIVER THESE MATERIALS AT THE ONSITE PRECONSTRUCTION CONFERENCE.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

TYPE A

15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF

15 MARCH TO 1 MAY CROWN VETCH @ 1/2 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 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

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

TOTAL

SCALE: NOT TO SCALE

DATE: Feb. 3, 2015

PROJECT: 14047

C - 11

TYPE B (SLOPES 3:1 OR STEEPER)

K-31 FESCUE @ 5 LB / 1000 SF GERMAN MILLET @ 1/2 LB / 1000 SF

PERMANENT SEEDING MIXTURE

LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE

FERTILIZER: 5-20-10 @ 25 LB / 1000 SF 38-0-0 @ 7 LB / 1000 SF

IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE MULCH: 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 SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN

EROSION - SILTATION CONTROL COST ESTIMATE ALL COSTS GIVEN ARE COMPLETE IN PLACE QUANTITY DESCRIPTION UNIT CONSTRUCTION ENTRANCE SILT FENCE LF 500 INLET PROTECTION EΑ DIVERSION DIKE 185

COST COST **\$** 1,000 1,000 3,000 3,125 2.50 4,625 LEVEL SPREADER LS 650 650 LS TS - PS - MU*300 300* CRITICAL ROAD STABILIZATION SY 3,200 25,600 CHECK DAM EΑ *325* 975 SUB-TOTAL \$ 39,275 10% CONTINGENCY \$ *3,928* TOTAL PROJECT COST \$ *43,203*

TOTAL DISTURBED AREA: 0.90 ACRES

No. | Revision By | Appd. | Date SITE & EROSION CONTROL DETAILS MSMi CLARIFICATION DETAILS ADDED ECI | RHW | 1/23/15 BANK OF BOTETOURT Designed RHW Checked AT DALEVILLE TOWN CENTER RHW Approved BOTETOURT COUNTY - VIRGINIA

AS A MINIMUM.

INTERVALS.

CENTERED

104.01

SECTION A-A

Add 0.469 Cu. Yds. per additional foot of depth.

CONCRETE QUANTITIES FOR MIN. DEPTH

12" concrete pipe - 1.440 Cu. Yds. Concrete 15" concrete pipe - 1.528 Cu. Yds. Concrete 18" concrete pipe - 1.620 Cu. Yds. Concrete 24" concrete pipe - 1.817 Cu. Yds. Concrete

ENGINEERING CONCEPTS, INC.

20 S. ROANOKE ST., PO BOX 619 FINCASTLE, VIRGINIA 24090 540.473.1253 FAX: 540.473.1254

EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-4: A COPY OF THE APPROVED EROSION AND

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL RIGHT OF THE PERMITTEE(S) TO ACCOMPANY THE INSPECTOR(S).

MEASURES NECESSARY TO PREVENT EROSION AND

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES

SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS

PUMPED INTO AN APPROVED FILTERING DEVICE.

DURING THE LAND DISTURBING ACTIVITIES AND DURING

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE

REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF

IMMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH

THE BOTETOURT COUNTY EROSION AND SEDIMENT CONTROL

ADMINISTRATOR ONCE EVERY TWO WEEKS, BEGINNING WITH

COMMENCEMENT OF THE LAND DISTURBING ACTIVITY, AND

WITHIN 48 HOURS OF ANY RUNOFF-PRODUCING RAINFALL EVENT. FAILURE TO SUBMIT A REPORT WILL BE GROUNDS

FOR IMMEDIATE REVOCATION OF THE LAND DISTURBING

PERMIT. REPORTS MUST BE POSTMARKED WITHIN 24

HOURS OF THE DEADLINE. A STANDARD INSPECTION

REPORT FORM WILL BE SUPPLIED, WHICH SHOULD BE

THE RIGHTS OF BOTETOURT COUNTY PERSONNEL TO

CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE

COPIED AS NECESSARY. THE PROVISION IN NO WAY WAIVES

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH

RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY

THE EROSION CONTROL DEVICES SHALL BE MADE

SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING