

SURVEYED BY \_\_\_\_\_  
 SUPERVISED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE PROJECT	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	VA.				

OUTSIDE ROAD DITCHES

MEDIAN DITCH

TYPE D

TYPE E

TYPE	D	FRONT SLOPE	BACK SLOPE	W1	W2	K	SO. YDS. SURFACE AREA PER LIN. FT.
A1	6"	4:1	3'-0"	2'-11"	4.8	0.565	
A1	8"	6:1	4'-11"	2'-9"	10.4	0.759	
A2	6"	6:1	3'-11"	1'-7"	4.2	0.509	
A2	8"	6:1	4'-11"	2'-11"	9.2	0.685	
A3	6"	6:1	2'-11"	1'-2"	3.8	0.463	
A3	8"	6:1	4'-11"	1'-6"	8.2	0.620	
B1	6"	4:1	4:1	2'-9"	2'-9"	3.8	0.463
B1	8"	4:1	4:1	2'-9"	2'-9"	8.2	0.611
B2	6"	4:1	3'-11"	2'-9"	2'-9"	7.2	0.537
B2	8"	4:1	3'-11"	2'-9"	2'-9"	16.0	0.722
B3	6"	4:1	2'-11"	1'-6"	6.0	0.472	
B3	8"	4:1	2'-11"	1'-6"	11.1	0.583	
B4	6"	4:1	1'-6"	1'-2"	5.5	0.435	
B4	8"	4:1	1'-6"	1'-2"	10.1	0.546	
C1	6"	3:1	2'-11"	1'-6"	5.0	0.388	
C1	8"	3:1	2'-11"	1'-6"	9.2	0.500	
C2	10"	3:1	1'-6"	1'-6"	8.0	0.463	
C2	10"	3:1	1'-6"	1'-6"	17.0	0.463	
C3	10"	3:1	1'-2"	1'-2"	7.0	0.426	

PLAN FOR TRANSITION OF PAVED MEDIAN DITCH TO MEDIAN DROP INLET GUTTER

ALTERNATE METHOD OF FORMING DITCHES

SECTION D-D

SECTION E-E

NOTE: ALL DITCHES MAY BE CONSTRUCTED WITH VERTICAL SIDES AT THE OPTION OF THE CONTRACTOR.

1" RADIUS

CURTAIN WALL TO BE LOCATED AT BEGINNING AND END OF ALL CHANNELS AT THE LOWER END OF EACH EXPANSION JOINT.

SPECIFICATION REFERENCE	502
REV. 7/04	109.01

STANDARD PAVED DITCHES

VIRGINIA DEPARTMENT OF TRANSPORTATION

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MINIMUM THICKNESS "T"

RIP RAP CLASS	MINIMUM "T"
CLASS A I	20"
CLASS I	26"
CLASS II	38"
CLASS III	53"

NOTES:

- XX RIP RAP BEDDING MATERIAL
- GEOTEXTILE FABRIC TO BE PROVIDED UNDER ALL RIPRAP INSTALLATIONS CLASS A I CLASS I AND CLASS II UNLESS OTHERWISE SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER.
- RIPRAP INSTALLATIONS OF CLASS III SHALL HAVE AN INTERMEDIATE AGGREGATE BEDDING LAYER(S) AS SPECIFIED ON THE PLANS BASED ON GEOTECHNICAL RECOMMENDATIONS.
- SEE TYPICAL SECTION SHOWN ON PLANS FOR CHANNEL BEDDING DEPTH OF CHANNEL AND RIPRAP THICKNESS.

TYPE I RIPRAP DITCH PROTECTION

TYPE II RIPRAP SLOPE PROTECTION

STANDARD RIP RAP DITCH & SLOPE PROTECTION

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VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIAL DESIGN SECTION DRAWING NO. 570	PLAN NO.	PROJECT	FILE NO.	SHEET NO.

SPECIFICATION REFERENCE	245
REV. 7/03	109.01b