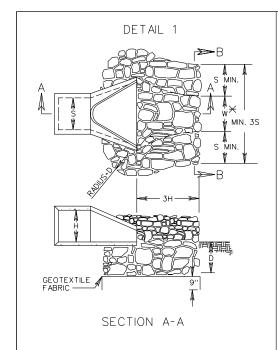
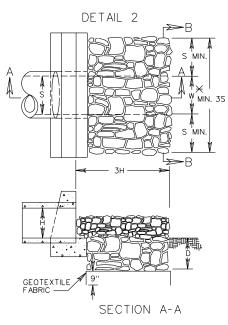
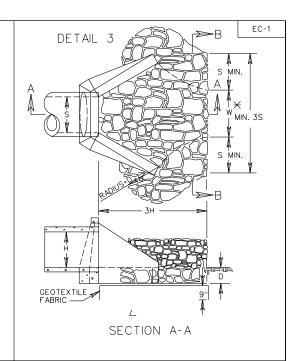
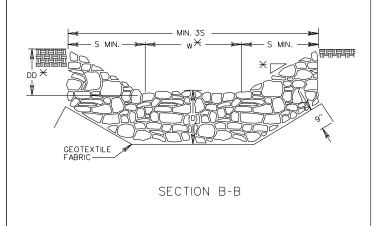
APPENDIX H

VDOT Road and Bridge Standards Excerpts









NOTES:

- 1. FOR MULTIPLE LINE INSTALLATIONS DIMENSION S IS TO GOVERN THE PROTECTION OUTSIDE THE CHANNEL WIDTH (W).
- 2. ON ANY SECONDARY ROADS INSTALLATION REQUIRING EROSION CONTROL STONE WHERE NO ENDWALL OR ENDSECTION IS SPECIFIED ON PLANS, CONSTRUCTION IS TO BE IN ACCORDANCE WITH DETAIL 2 SHOWN ABOVE.
- 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDER ALL EROSION CONTROL STONE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 4. S DIAMETER OF CIRCULAR CULVERT OR SPAN FOR BOX, ELLIPTICAL OR ARCH CULVERT. H DIAMETER OF CIRCULAR CULVERT OR RISE/HEIGHT FOR BOX, ELLIPTICAL OR ARCH CULVERT.

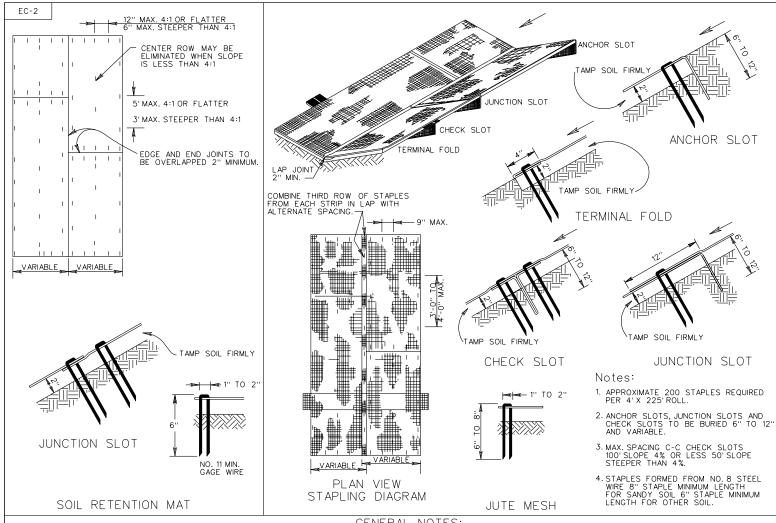
EC-1	MIN. DEPTH "D"
CLASS I	2'
CLASS I	3'

REFERENCE

STONE FOR EROSION CONTROL

204 245 303 414

VIRGINIA DEPARTMENT OF TRANSPORTATION



GENERAL NOTES:

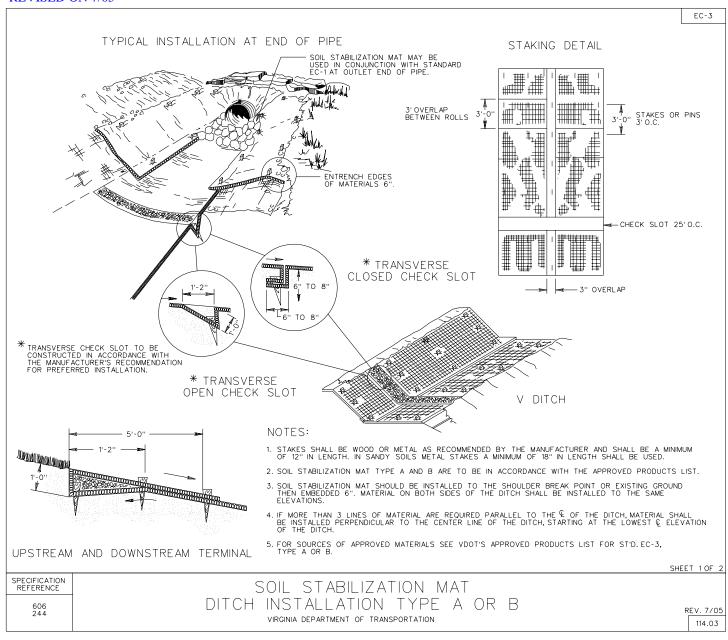
- 1. BASIS OF PAYMENT TO BE SQUARE YARDS OF PROTECTIVE COVERING COMPLETE IN PLACE. PROTECTIVE COVERING IS TO BE LOCATED AS INDICATED ON THE PLANS IN ACCORDANCE WITH THE DIMENSIONS SPECIFIED ON TYPICAL SECTION.
- 2."T-TOP" STAPLES OR OTHER MANUFACTURER'S DESIGN APPROVED BY THE ENGINEER MAY BE SUBSTITUTED FOR THE STAPLES SHOWN.
- 3. JUTE MESH OR SOIL RETENTION MAT IN ACCORDANCE WITH THE SPECIFICATIONS MAY BE USED AT THE OPTION OF THE CONTRACTOR.
- 4. WIDTH OF MATERIAL MAY VARY FROM MINIMUM DIMENSION BY INCREMENTS OF 4 OR 5 FEET.
- 5. FOR SOURCES OF APPROVED MATERIAL SEE VDOT'S APPROVED PRODUCTS LIST FOR ST'D. EC-2 MATERIAL.

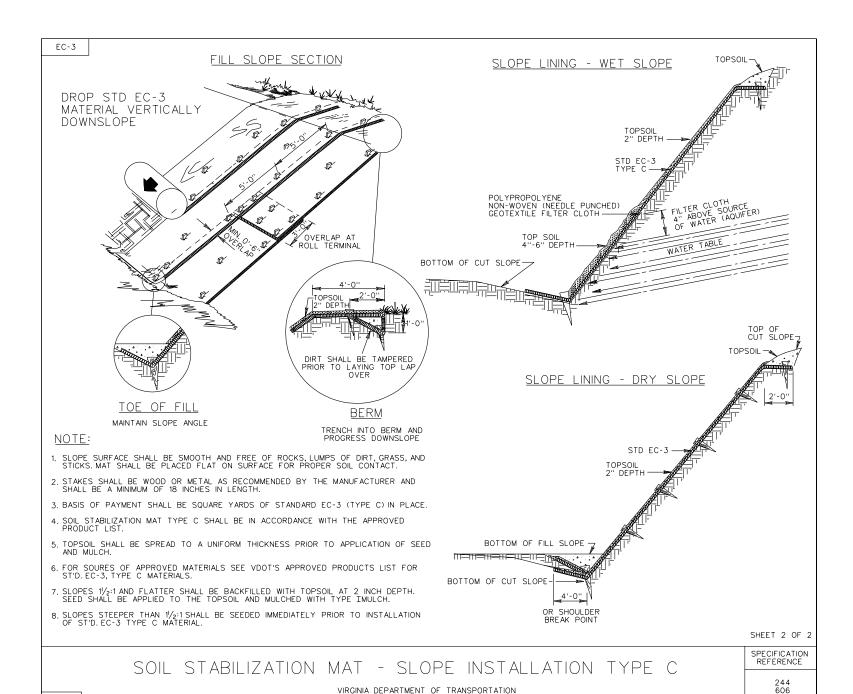
PROTECTIVE COVERING INSTALLATION CRITERIA

REFERENCE

SPECIFICATION

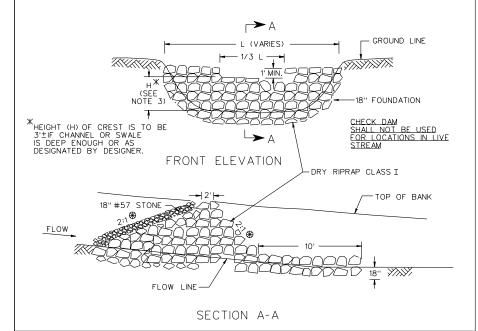
REVISED ON 7/05



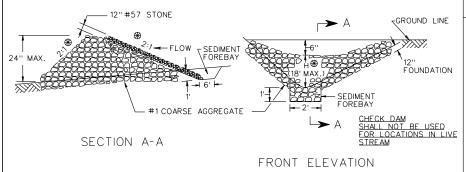




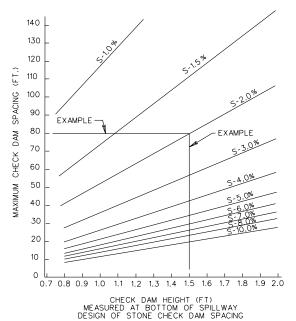
TYPICAL DETAIL FOR ROCK CHECK DAM TYPE I



TYPICAL DETAIL FOR ROCK CHECK DAM TYPE II



SUGGESTED ROCK CHECK DAM SPACING



EXAMPLE :

HEIGHT OF STRUCTURE 1.5'
GRADE 2%
EXTEND PERPENDICULAR FROM 1.5'HEIGHT TO INTERSECT
2% GRADE
EXTEND 90° TO THE LEFT TO DETERMINE SPACING (78'*)

NOTES:

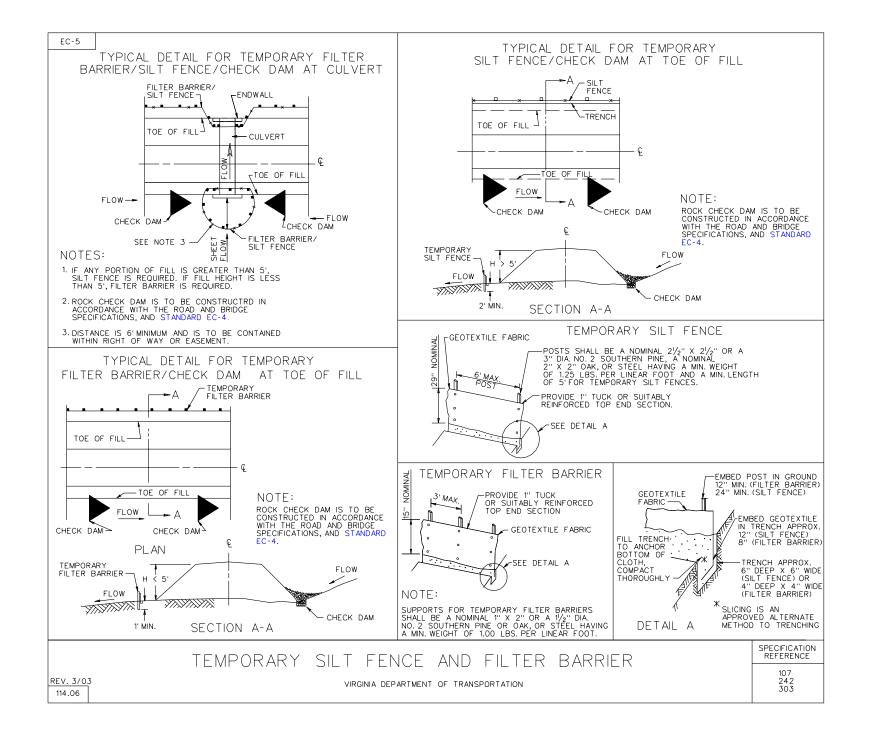
- ROCK CHECK DAMS THAT ARE DESIGNATED ON THE PLANS AS A STORMWATER MANAGEMENT (SWM) ITEM ARE TO BE LEFT IN PLACE AS A PERMANENT INSTALLATION.
- 2. WHERE DRAINAGE AREAS EXCEED 1 ACRE OR DITCH GRADE EXCEEDS 3%, A TEMPORARY SEDIMENT FOREBAY SHALL BE INSTALLED WITH MINIMUM DIMENSIONS OF 12" DEPTH, 2' WIDTH AND 6' LENGTH.
- *3. IF CHECK DAMS IS LOCATED INSIDE CLEAR ZONE AND ADJACENT TO A TRAVELWAY, SLOPE FACING ON COMING TRAFFIC IS TO BE 6:1 AND MAXIMUM H IS TO BE 12".
 - 4. ALTERNATIVE MATERIALS ON VDOT'S SPEL LIST MAY BE SUBSTITUTED AT NO ADDITIONAL COST TO THE DEPARTMENT.

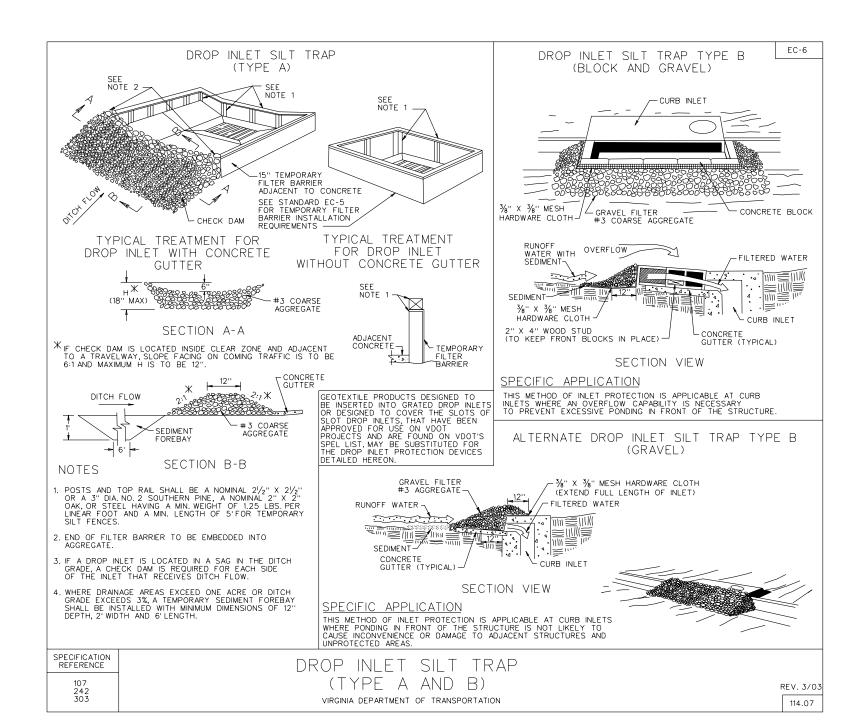
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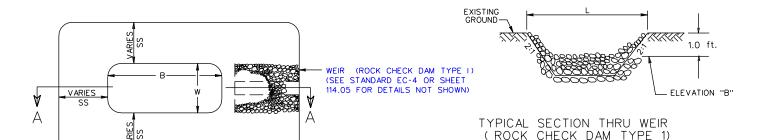
ROCK CHECK DAMS TYPE 1& II

107 303

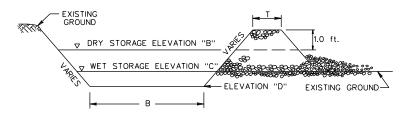
VIRGINIA DEPARTMENT OF TRANSPORTATION







PLAN VIEW OF TEMPORARY SEDIMENT TRAP



TYPICAL SECTION (A-A) THRU TEMPORARY SEDIMENT TRAP

NOTES:

- 1. CHECK DAM IS SHOWN FOR ILLUSTRATION ONLY AND IS NOT INCLUDED IN PAYMENT FOR SEDIMENT TRAP.
- 2. THE SEDIMENT STORAGE VOLUME SHALL BE 134 CUBIC YARDS/ACRE OF TOTAL CONTRIBUTING DRAINAGE AREA AND SHALL CONSIST OF HALF IN THE FORM OF WET STORAGE AND HALF IN THE FORM OF DRY STORAGE.
- 3. SEE PLANS FOR DIMENSIONS AND ELEVATIONS.

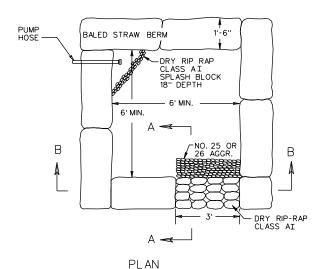
TYPICAL SEDIMENT TRAP

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

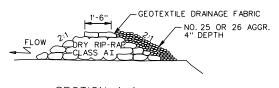
> 107 303

TYPICAL DEWATERING BASIN

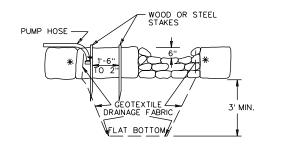


NOTES:

- 1. DEWATERING BASIN SIZE SHALL BE DETERMINED BY THE FORMULA 16 X GAL, MIN. OF PUMP CU, FT. OF STORAGE CAPACITY.
- 2. THIS WORK SHALL CONSIST OF THE CONSTRUCTION OF A DEWATERING BASIN FOR THE PURPOSE OF RECEIVING SEDIMENT-LADENED WATER PUMPED FROM A CONSTRUCTION SITE TO ALLOW FOR FILTRATION BEFORE IT REENTERS THE WATERWAY. PUMPING INTO THESE BASINS SHALL CEASE WHEN THE FLOW FROM THE BASIN BECOMES SEDIMENT-LADENED.
- 3. SURFACE WATER FLOW SHALL BE DIVERTED AROUND THIS DEVICE.
- 4. THE OUTFALL FROM THE BASIN(S) SHALL HAVE A STABILIZED CONVEYANCE TO RECEIVING WATERS.
- 5. ONCE THE DEWATERING BASIN BECOMES FILLED TO HALF OF THE EXCAVATED DEPTH, ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED DISPOSAL AREA OUTSIDE OF THE 100-YEAR FLOODPLAIN UNLESS OTHERWISE APPROVED ON THE PLANS.
- 6. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED AND THE ENCINEER APPROVES THEIR REMOVAL. GROUND CONTOURS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE ENGINEER.
- 7. SYNTHETIC PRODUCTS APPROVED BY VDOT'S NEW PRODUCTS COMMITTEE AS A SUBSTITUTE MAY BE USED IN LIEU OF THIS DESIGN. HOWEVER, VDOT WILL ONLY COMPENSATE THE CONTRACTOR UP TO THE BID PRICE PER EACH AT EACH SITE.



SECTION A-A

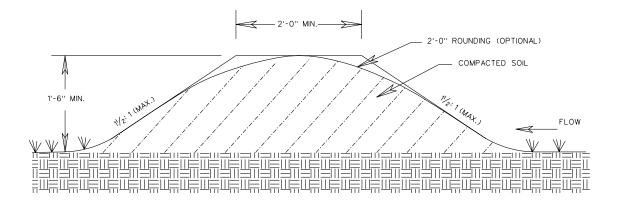


SECTION B-B

* GEOTEXTILE DRAINAGE FABRIC TO COVER INSIDE FACE OF BALED STRAW BERM.

SPECIFICATION	
REFERENCE	

EC-9



TEMPORARY DIVERSION DIKE

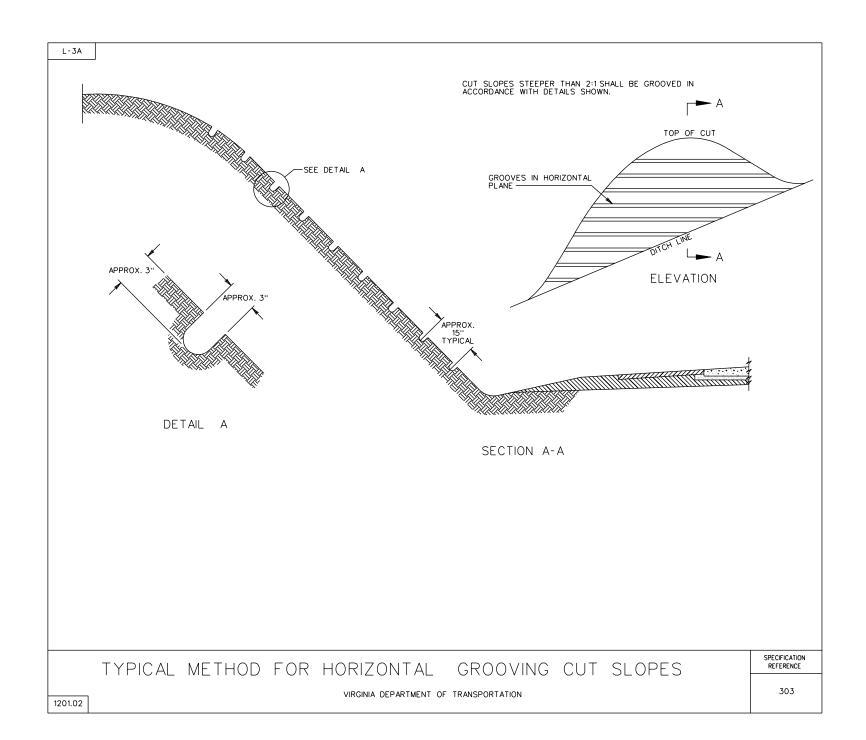
NOTE:

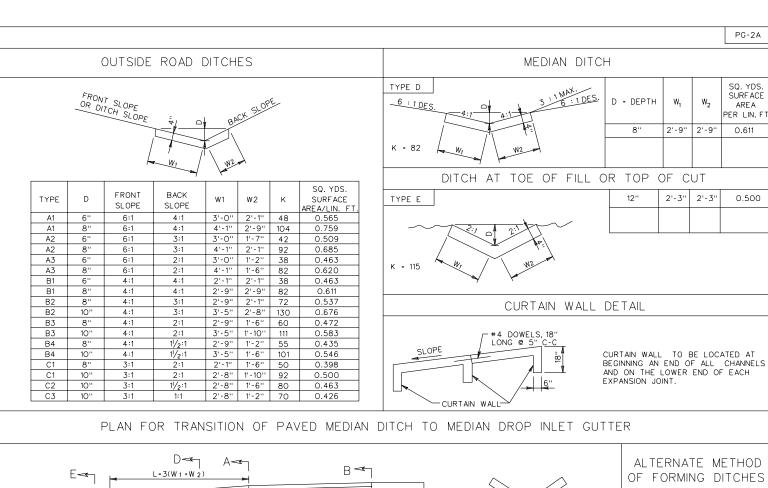
- THE CHANNEL CREATED BEHIND THE DIKE SHALL HAVE A POSTIVE GRADE TO A STABILIZED OUTLET. THE CHANNEL SHALL BE STABILIZED, AS NECESSARY, TO PREVENT EROSION.
- 2. TEMPORARY DIVERSION DIKE WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH SECTION 303 OF THE SPECIFICATIONS.

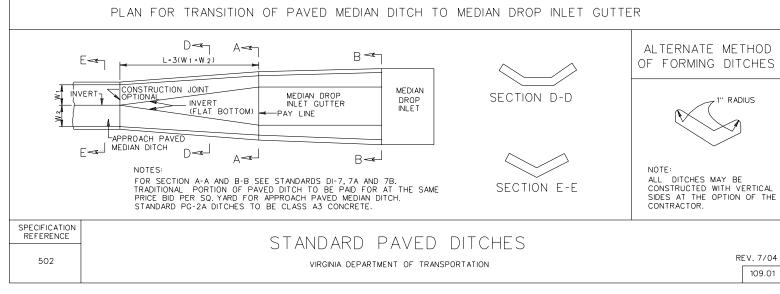
TEMPORARY DIVERSION DIKE

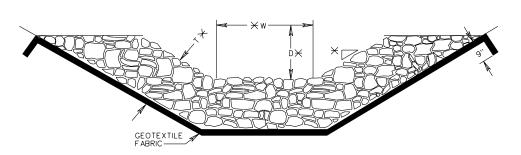
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE





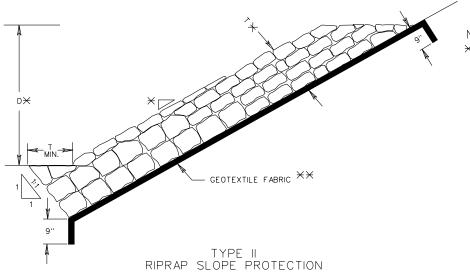




MINIMUM THICKNESS "T"

RIP RAP CLASS	MINIMUM "T"								
CLASS AI	20"								
CLASS I	26''								
CLASS I	38"								
CLASS III	53"								

TYPE I RIPRAP DITCH PROTECTION



NOTES:

* RIP RAP BEDDING MATERIAL

GEOTEXTILE FABRIC TO BE PROVIDED UNDER ALL RIPRAP INSTALLATIONS CLASS AI, CLASS IAND CLASS II UNLESS OTHERWISE NOTED ON 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 SIDE SLOPE, BOTTOM WIDTH AND DEPTH OF CHANNEL AND RIPRAP THICKNESS.

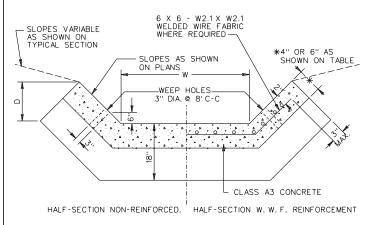
SPECIFICATION REFERENCE 245

414

STANDARD RIP RAP DITCH & SLOPE PROTECTION PG-3

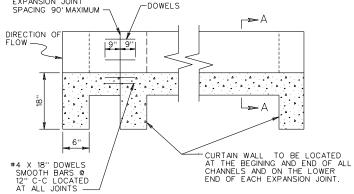
VIRGINIA DEPARTMENT OF TRANSPORTATION

New 7/03 109.01a



SECTION A-A

CONCRETE TO BE CLASS A3 EXPANSION JOINT SPACING 90' MAXIMUM —



ELEVATION

SQUARE YARDS PER LIN. FT. OF PAVED CHANNEL											
CONC. THICK-	D					W					
NESS		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
				1:1	SIDE SL	.OPES					
	1'	0.425	0.536	0.648	0.759	0.870	0.981	1.092	1.203	1.314	1.425
4"	2'	0.749	0.851	0.962	1.073	1.184	1.295	1.406	1.517	1.629	1.740
4	3'	1.054	1.165	1.276	1.387	1.498	1.609	1.721	1.832	1.943	2.054
	4'	1.368	1.479	1.590	1.702	1.813	1.924	2.035	2.146	2.257	2.368
	5'	1.682	1.794	1.905	2.016	2.127	2.238	2.349	2.460	2.571	2.682
6"	6'	1.997	2.108	2.219	2.330	2.441	2.552	2.663	2.774	2.886	2.997
	7'	23.11	2.422	2.533	2.644	2.755	2.866	2.977	3.089	3.200	3.311
"	8'	2.625	2.736	2.848	2.959	3.070	3.181	3.292	3.403	3.514	3.625
	9'	2.940	3.051	3.162	3.273	3.384	3.495	3.606	3.717	3.828	3.939
	10'	3.254	3.365	3.476	3.587	3.698	3.809	3.920	4.032	4.143	4.254
		•		1.5	5:1 SIDE	SLOPES	•		•	•	
	1'	9.512	0.623	0.734	0.845	0.956	1.067	1.178	1.290	1.401	1.512
4	2'	0.912	1.023	1.135	1.246	1.357	1.468	1.579	1.690	1.801	1.912
"	3'	1.313	1.424	1.535	1.646	1.757	1.869	1.980	2.091	2.202	2.313
	4'	1.714	1.825	1.936	2.047	2.158	2.269	2.380	2.491	2.602	2.714
	5'	2.114	2.225	2.336	2.448	2.559	2.670	2.781	2.892	3.003	3.114
	6'	2.515	2.626	2.737	2.848	2.959	3.070	3.181	3.293	3.404	3.515
6"	7'	2.915	3.027	3.138	3.249	3.360	3.471	3.582	3.693	3.804	3.915
	8'	3.316	3.427	3.538	3.649	3.760	3.872	3.983	4.094	4.205	4.316
	9'	3.717	3.828	3.939	4.050	4.161	4.272	4.383	4.494	4.606	4.717
	10'	4.117	4.228	4.340	4.451	4.562	4.673	4.784	4.895	5.006	5.117
				2:	1 SIDE S	LOPES				•	•
	1'	0.608	0.719	0.830	0.941	1.052	1.164	1.275	1.386	1.497	1.608
4"	2'	1.105	1.216	1.327	1.438	1.549	1.660	1.772	1.883	1.994	2.105
4	3'	1,602	1.713	1.824	1.935	2.046	2.157	2.268	2.380	2.491	2.602
	4'	2.099	2.210	2.321	2.432	2.543	2.654	2.765	2.876	2.988	3.099
	5'	2.596	2.707	2.818	2.929	3.040	3.151	3.262	3.373	3.485	3.596
	6'	3.093	3.204	3.315	3.426	3.537	3.648	3.759	3.870	3.981	4.093
6"	7'	3.589	3.701	3.812	3.923	4.034	4.145	4.256	4.367	4.478	4.589
"	8'	4.086	4.197	4.309	4.420	4.531	4.642	4.753	4.864	4.975	5.086
	9'	4.583	4.694	4.805	4.917	5.028	5.139	5.250	5.361	5.472	5.583
	10'	5.080	5.191	5.302	5.413	5.525	5.636	5.747	5.858	5.969	6.080
,											

NOTES

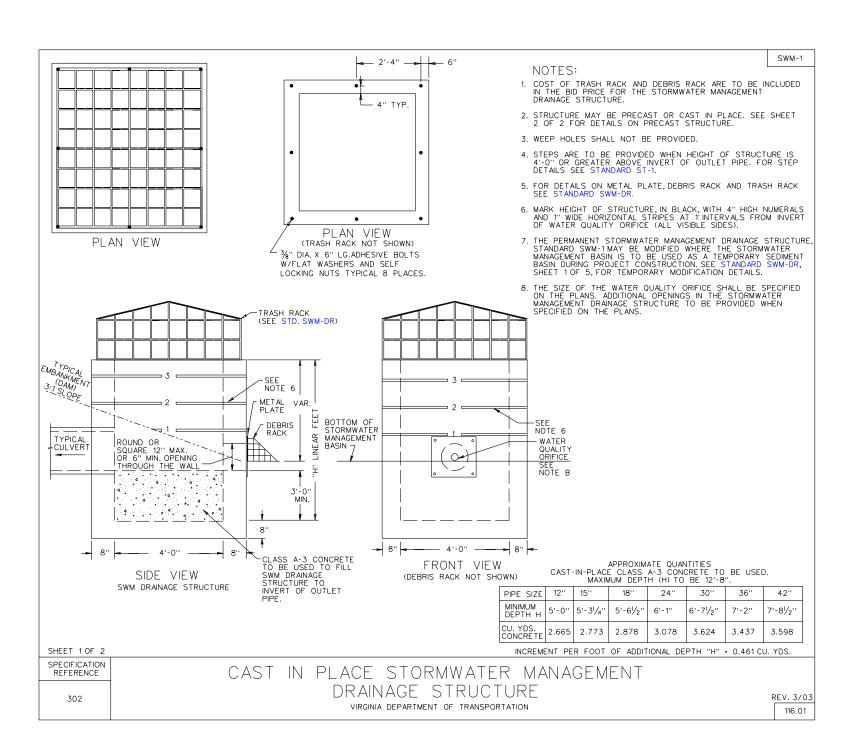
DEPTH (D) AND WIDTH (W) TO BE AS SHOWN ON PLANS.
WEEP HOLES ARE TO BE PROVIDED ON ALL CHANNELS WHERE W IS EQUAL TO OR GREATER
THAN 4'-AND D IS EQUAL TO OR GREATER THAN 2'.
WEEP HOLE WITH 12" X 12" PLASTIC HARDWARE CLOTH, 1/4" MESH OR GALVANIZED STEEL
WIRE DIAMETER 0.03 INCH, NUMBER 4 MESH, HARDWARE CLOTH ANCHORED FIRMLY TO THE
BOTTOM OF THE CHANNEL.

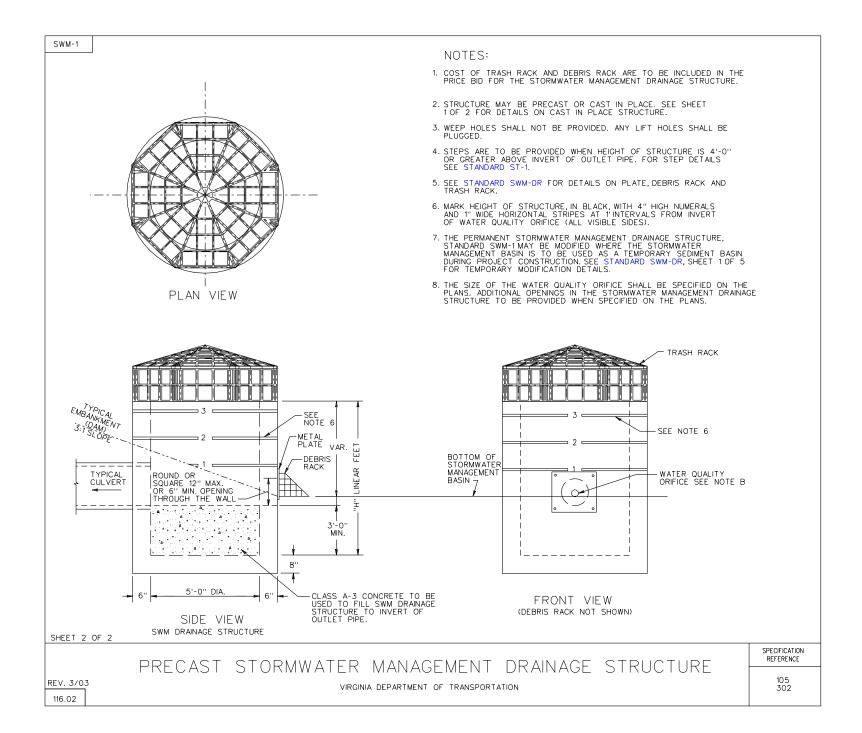
SPECIFICATION REFERENCE

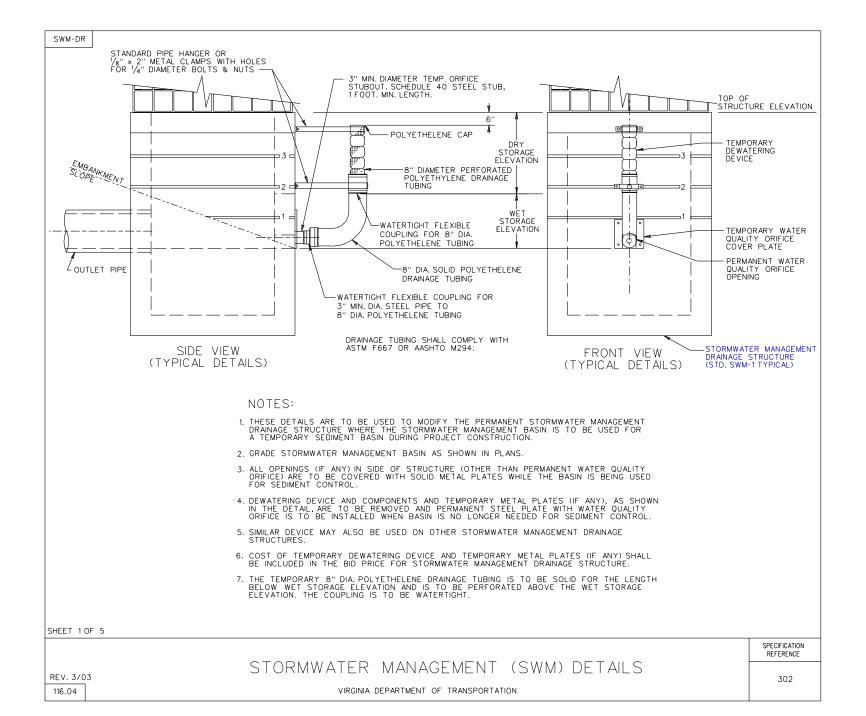
502

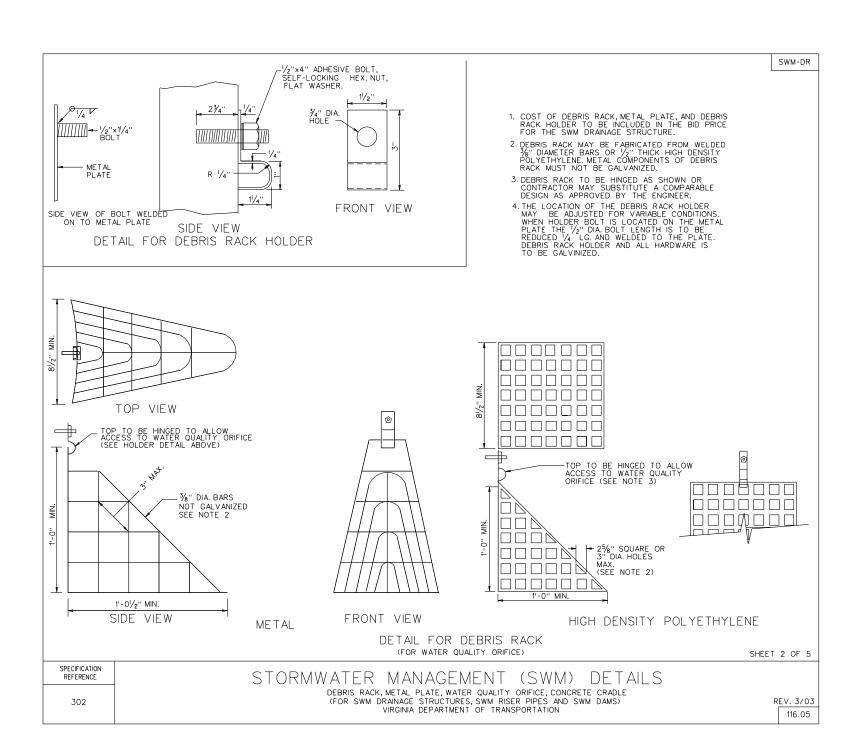
STANDARD PAVED DITCHES

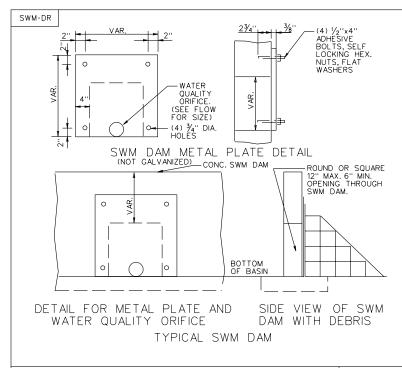
VIRGINIA DEPARTMENT OF TRANSPORTATION

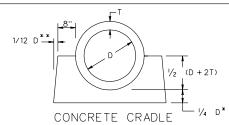








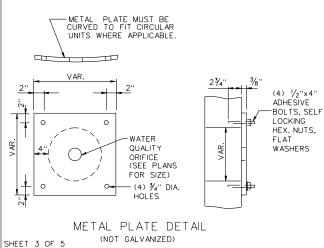


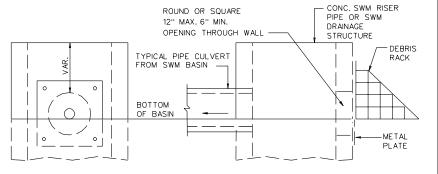


PIPE SIZE INCHES	CRADLE BOTTOM WIDTH (INCHES)	CRADLE HEIGHT (INCHES)	CRADLE TOP WIDTH (INCHES)	INCREMENT, IN CUBIC YARDS, PER LINEAR FOOT OF PIPE
12	34	14	32	0.093
15	38	15.75	35.5	0.110
18	42	17.5	39	0.129
24	50	21	46	0.168
30	58	26	53	0.233
36	66	31	60	0.307
42	74	36	67	0.390

- CONCRETE SHALL BE CLASS A3
 * BUT NOT LESS THAN 6"
- ** IF THE PIPE IS LAID IN AN EXCAVATED TRENCH, THEN THE SIDE WALLS MAY CONFORM TO THE TRENCH SHAPE (IE THE TRENCH MAY BECOME THE CRADLE FORM).

CONCRETE CRADLE IS TO BE INSTALLED UNDER THE ENTIRE LENGTH OF CULVERT AT EACH STORMWATER MANAGEMENT BASIN. CONCRETE CRADLE IS TO BE PAID FOR AS MISCELLANEOUS CONCRETE AND SUMMARIZED IN CUBIC YARDS FOR EACH PIPE LOCATION





DETAIL FOR METAL PLATE AND SIDE VIEW WITH DEBRIS RACK WATER QUALITY ORIFICE

TYPICAL SWM DRAINAGE STRUCTURE

STORMWATER MANAGEMENT (SWM) DETAILS

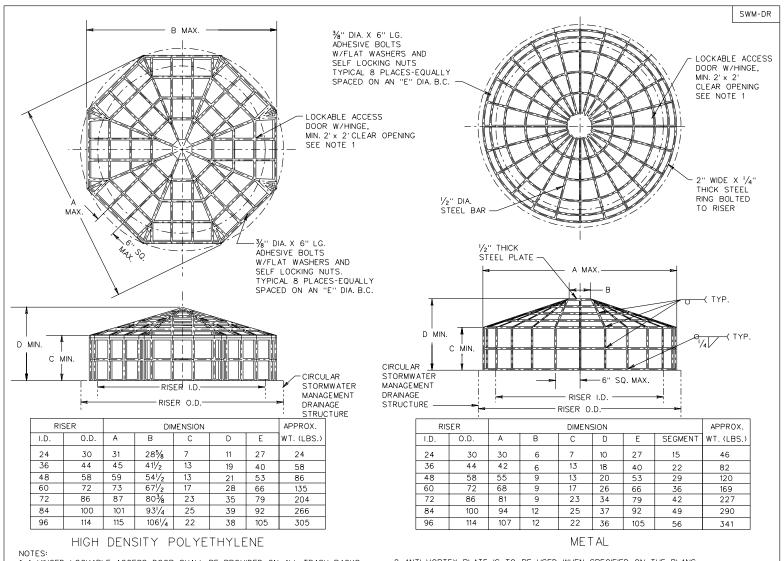
DEBRIS RACK, METAL PLATE, WATER QUALITY ORIFICE, CONCRETE CRADLE (FOR SWM DRAINAGE STRUCTURES, SWM RISER PIPES AND SWM DAMS)

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

302

REV. 3/03



1. A HINGED, LOCKABLE ACCESS DOOR SHALL BE PROVIDED ON ALL TRASH RACKS IF THE TOTAL WEIGHT OF THE TRASH RACK IS GREATER THAN 75 LBS OR IF THE TRASH RACK IS TO BE PLACED ON A SWM-1 WITH AN "H" DIMENSION GREATER THAN 7'-2". 2. ANTI-VORTEX PLATE IS TO BE USED WHEN SPECIFIED ON THE PLANS. COST OF FURNISHING AND PLACING THE ANTI-VORTEX PLATE IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.

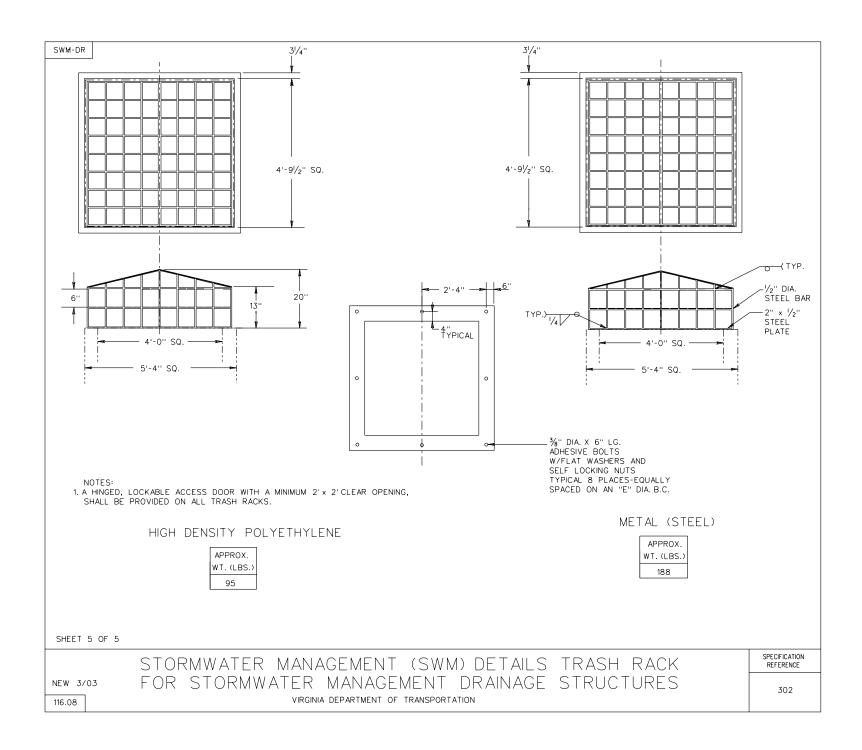
SHEET 4 OF 5

REFERENCE
302

STORMWATER MANAGEMENT (SWM) DETAILS TRASH RACK FOR STORMWATER MANAGEMENT DRAINAGE STRUCTURES

VIRGINIA DEPARTMENT OF TRANSPORTATION

NEW 3/03





STREAM DIVERSION GENERAL NOTES

SLOPES

MAXIMUM STEEPNESS OF SIDE SLOPES SHALL BE 1:1. DEPTH AND GRADE MAY BE VARIABLE, DEPENDENT ON SITE CONDITIONS, BUT SHALL BE SUFFICIENT TO ENSURE CONTINUOUS FLOW OF WATER IN THE DIVERSION.

FXCAVATION

NO EXCAVATED MATERIAL SHALL BE STORED OR STOCKPILED NEXT TO THE DIVERSION OR IN SUCH A MANNER THAT SILTATION OF THE STREAM COULD OCCUR.

PIPE CULVERTS

PIPE CULVERT(S) MAY BE USED TO DIVERT A STREAM PROVIDED THEY ARE PROPERLY SIZED TO SAFELY CARRY THE FLOW OF A TWO YEAR STORM EVENT. UNDERSIZED PIPES SHALL BE USED FOR NO LONGER THAN 72 HOURS PROVIDED LESS THAN 50% THREAT OF RAIN CAN BE REASONABLY EXPECTED WITHIN THAT TIME PERIOD AND THEY ARE APPROVED BY THE ENGINEER.

WHEN THE CONTRACTOR USES PIPE CULVERTS IN LIEU OF THE DIVERSION CHANNEL OR A PORTION OF THE CHANNEL, PAYMENT WILL BE MADE BASED ON THE PRICE BID FOR THE QUANTITIES SHOWN ON THE PLANS FOR TEMPORARY DIVERSION CHANNEL EXCAVATION AND TEMPORARY DIVERSION CHANNEL INING CLASS SPECIFIED.

LINING

THE CONTRACTOR SHALL HAVE THE OPTION OF USING A HIGHER CLASS OF LINING THAN THAT SPECIFIED ON THE PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR USING THE HIGHER CLASS.

STREAM DIVERSION LINERS SHALL BE SECURED AT THE UPSTREAM AND DOWNSTREAM SIDES WITH NON-ERODIBLE WEIGHTS SUCH AS EROSION CONTROL STONE. THESE WEIGHTS SHALL ALLOW NORMAL FLLOW OF THE STREAM. SOIL SHALL NOT BE MIXED IN WITH STREAM DIVERSION WEIGHTS WEIGHTS MAY ALSO BE NEEDED ALONG THE STREAM DIVERSIONS LENGTH.

STREAM DIVERSION LINERS SHALL BE ENTRENCHED AT THE TOP OF THE DIVERSION SLOPES (SLOPE BREAKS) WITH A LINE OF SILT FENCE.

PROTECTIVE COVERING (EC-2) STAPLES OR NON-ERODIBLE WEIGHTS SHALL BE USED AS NECESSARY TO ANCHOR STREAM DIVERSION LINERS TO THE SIDE SLOPES OF THE DIVERSION. WOODEN STAKES SHALL NOT BE USED ON THE DIVERSON'S BOTTOM OR SIDE SLOPES.

STREAM DIVERSION LINERS SHALL BE OVERLAPPED WHEN A SINGLE OR CONTINUOUS LINER IS NOT AVAILABLE OR IS IMPRACTICAL. OVERLAPS SHALL BE PLACED SUCH THAT CONTINUOUS FLOW OF THE STREAM IS MAINTAINED. AN UPSTREAM SECTION SHALL OVERLAP A DOWNSTREAM SECTION BY A MINIMUM OF 18". OVERLAPS ALONG THE CROSS-SECTION SHALL BE MADE SUCH THAT A LINER IS PLACED IN THE STREAM DIVERSION BOOTTOM FIRST AND ADDITIONAL PIECES OF LINER ON THE SLOPES OVERLAP THE BOTTOM PIECE BY A MINIMUM OF 18".

GENERAL

SILT FENCE

-EXIST

GROUND

-SILT FENCE

GROUND

THE DOWNSTREAM PLUG SHALL BE REMOVED PRIOR TO THE UPSTREAM PLUG WHEN A STREAM DIVERSION IS USED FOR THE TRANSPORT OF WATER.

NON-ERODIBLE MATERIALS, INCLUDING BUT NOT LIMITED TO, EROSION CONTROL STONE, CONCRETE BARRIERS, SANDBAGS, PLYWOOD, OR SHEET PILING SHALL BE USED BOTH TO DIVERT THE STREAMS AWAY FROM THEIR ORIGINAL CHANNELS AND TO PREVENT OR REDUCE WATER BACKUP INTO A CONSTRUCTION AREA.

STREAMS MAY BE DIVERTED THROUGH AN EXISTING OR INCOMPLETE STRUCTURE PROVIDED THEY WILL NOT RE-ENTER A DISTURBED AREA, COME INTO CONTACT WITH WET CONCRETE, AND/OR BECOME PARTIALLY OR WHOLLY IMPOUNDED, SILTED, OR OTHERWISE CONTAMINATED.

STREAMS MAY BE REDIVERTED UPON COMPLETION OF THE DRAINAGE STRUCTURE(S) FOR WHICH THE DIVERSION WAS BUILT, PRIOR TO REDIVERSION, ANY MATERIALS USED TO PREVENT WATER BACKUP INTO THE DOWNSTREAM END OF THE DRAINAGE STRUCTURE(S) SHALL BE REMOVED. THIS MATERIAL SHALL NOT BE PLACED IN THE DOWNSTREAM END OF THE DIVERSION UNTIL AFTER WATER HAS BEEN REDIVERTED TO THE DRAINAGE STRUCTURE(S). A STREAM SHALL BE REDIVERTED TO REMOVED. THE OFFICE ARE STREAM SHALL BE REDIVERTED TO THE DRAINAGE STRUCTURE(S). A STREAM SHALL BE REDIVERTED TO THE DRAINAGE STRUCTURE(S) AS TREAM SHALL BE REDIVERTED TO THE DRAINAGE STRUCTURE(S). A STREAM SHALL BE REDIVERTED TO THE DRAINAGE STRUCTURE(S) AS TREAM SHALL BE REDIVERTED TO THE DRAINAGE STRUCTURE(S) AS TREAM SHALL BE REDIVERTED TO THE DRAINAGE STRUCTURE(S) AS THE DIVERSION SHALL BE SEALED OFF AT THE DOWNSTREAM END AND THEN BACKFILLED.

ONCE STARTED, ANY WORK TO RELOCATE A STREAM (PLUGS) SHALL NOT BE DISCONTINUED UNTIL IT IS COMPLETED.

ANY DEVIATIONS TO THE ABOVE NOTED STREAM DIVERSION DESIGN, INSTAL-LATION, OR MAINTAINANCE SHALL BE APPROVED BY THE ENGINEER.

BOTTOM WIDTH OF TEMPORARY DIVERSION CHANNEL SHALL APPROXIMATE THE BOTTOM WIDTH OF THE NATURAL STREAM CHANNEL.

CLASS B LINING

TYPICAL SECTION

TEMPORARY DIVERSION CHANNEL AND ACCEPTABLE LININGS

TEMPORARY

SILT FENCE REQUIRED

-SILT FENCE

-POST

ENTRENCH SILT FENCE

IN SAME TRENCH

AND GEOTEXTILE MATERIAL

ENTRENCH SILT FENCE AND GEOTEXTILE MATERIAL

IN SAME TRENCH

RIPRAP GEOTEXTILE

BEDDING MATERIAL (BLACK)

CLASS A LINING

-RIPRAP GEOTEXTILE

BEDDING MATERIAL

CLASS I RIPRAP OR

SANDBAG LINER-

DIVERSION

SPECIFICATION REFERENCE

CLASS I DRY RIPRAP TEMPORARY PIPES

EXISTING

12" X 12"

TIMBER

SOIL FILL

SUFFICIENT TO CARRY A 2 YEAR STORM EVENT

DAM DETAIL

#1 AGGREGATE

RIPRAP GEOTEXTILE BEDDING MATERIAL

SECTION A-A

-CLASSI DRY RIPRAP

-12" X 12"

CLASS T

DRY RIPRAP

TIMBER

DIVERSION

RIPRAP GEOTEXTILE BEDDING MATERIAL

SILT FENCE

GROUND -

SILT FENCE-

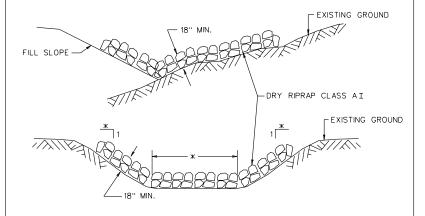
GROUND-

EXIST.

EXIST.

TEMPORARY DIVERSION CHANNEL & ACCEPTABLE LININGS

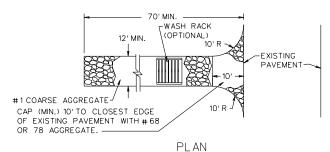
SUGGESTED METHOD OF TEMPORARILY PLACING RIPRAP FOR EROSION CONTROL IN CHANNELS, DITCHES, & AT TOE OF FILL SLOPES

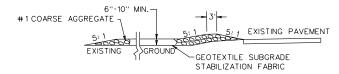


NOTES:

- 1. THE DEPTH OF PROTECTION WILL DEPEND ON WHATEVER DEPTH IS ATTAINABLE, WITH THE RIPRAP BEING EVENLY SPREAD WITH THE QUANTITY SHOWN ON THESE PLANS. RIPRAP MAY BE ADDED OR DELETED AS FOUND NECESSARY BY THE ENGINEER.
- * SIDE SLOPES AND BOTTOM WIDTH (IF TRAPEZOIDAL) SHOWN IN TYPICAL SECTION OF PROPOSED DITCH OR CHANNEL.

MINIMUM REQUIREMENTS FOR STABILIZED CONSTRUCTION ENTRANCE





PROFILE

- 1. SURFACE WATER SHALL BE PIPED UNDER THE CONSTRUCTION ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 2.THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY SHALL BE REMOVED IMMEDIATELY.
- 3. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 4.PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER HEAVY USE AND EACH RAIN.

SHEET 1 OF 3

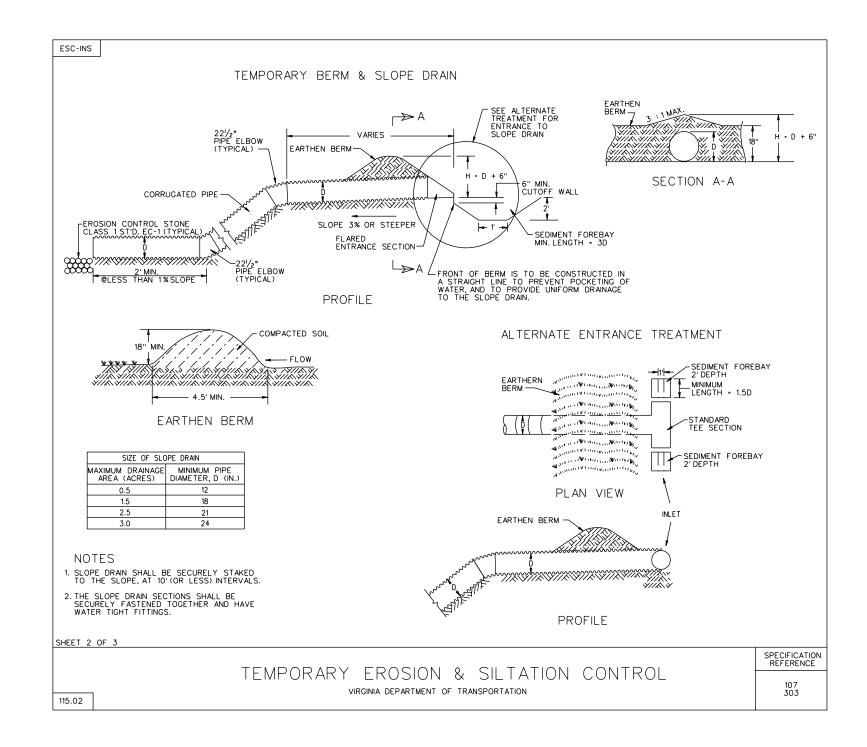
SPECIFICATION REFERENCE

TEMPORARY EROSION & SILTATION CONTROL

107 303

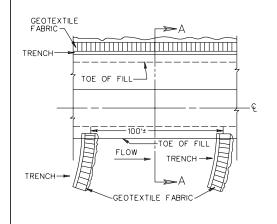
VIRGINIA DEPARTMENT OF TRANSPORTATION

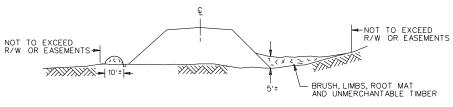
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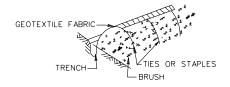
ESC-INS

SILT BARRIERS TYPICAL DETAIL FOR BRUSH BARRIER (TO BE USED AT ALL APPLICABLE LOCATIONS)

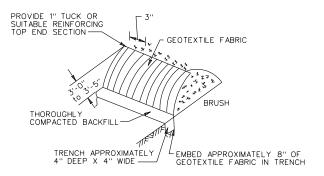




SECTION A-A







FRONT ISOMETRIC

NOTES:

- 1. BRUSH BARRIERS SHALL BE CONSTRUCTED AT LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BRUSH SHALL BE PILED AGAINST EXISTING TREES TO PREVENT MOVEMENT OF BARRIER. BRUSH SHALL BE PILED AS TIGHTLY AS POSSIBLE AND WEIGHTED DOWN BY UNMERCHANTANTABLE LOGS.
- 2. GEOTEXTILE FABRIC CONFORMING TO THE ROAD AND BRIDGE SPECIFICATIONS SHALL BE INSTALLED AS DETAILED ABOVE. GEOTEXTILE FABRIC MAY ALSO BE ATTACHED TO EXISTING FENCES WHEN SPECIFIED ON THE PLANS OR DIRECTED BY THE ENGINEER.
- 3. NO BRUSH WILL BE DESTROYED OR REMOVED FROM THE PROJECT UNTIL ALL BRUSH SILT BARRIERS ARE IN PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.
- 4. DIMENSIONS SHOWN ARE APPROXIMATE ONLY.

SHEET 3 OF 3

SPECIFICATION REFERENCE

TEMPORARY EROSION & SILTATION CONTROL

VIRGINIA DEPARTMENT OF TRANSPORTATION

115.03

SURVEYED BY	 	_
SUPERVISED BY	 	_
DESIGNED BY	 	

ROADSIDE DEVELOPMENT

CORE MIX

MIX	LBS./ ACRES	DESCRIPTION
1	A	X 100% CERTIFIED FINE FESCUE
2	A	100 % CERTIFIED TALL FESCUE
3	•	50% CERTIFIED TALL FESCUE
		X 50% CERTIFIED FINE FESCUE
	A	50% ORCHARDGRASS
4		50 % CERTIFIED KENTUCKY BLUEGRASS
5	A	100 % BERMUDAGRASS
TEMPORARY		
3/1 - 5/16 and	50	50% CERTIFIED TALL FESCUE
8/16 - 3/1	50	50% BARLEY, WINTER RYE OR WINTER WHEAT
5/16 - 8/16	50	50% FOXTAIL MILLET
	50	50% CERTIFIED TALL FESCUE

ALL RATES TO BE SPECIFIED BY THE DISTRICT ROADSIDE MANAGER

* FINE FESCUES INCLUDE CHEWINGS, CREEPING RED. HARD, SHEEP

ΑU	וט	I	ľ	V	Ł	S

TYPE	LBS./ ACRES	DESCRIPTION
Α	A	100% LOVEGRASS
В	A	100% BARLEY, WINTER RYE OR WINTER WHEAT
С	A	100% FOXTAIL MILLET
D	A	100% ANNUAL RYEGRASS
E	A	100% CROWNVETCH (LEGUME)
F	A	100% SERICEA LESPEDEZA (LEGUME)
G	A	100% BIRDSFOOT TREFOIL (LEGUME)
н	A	
I	A	
J	A	
к	A	

SECTION OF SEED LOCATIONS



SLOPES

MOWED

SEED MIX

ADDITIVE

SEEDING SCHEDULE

SEED MIX SEED MIX

SUMMER

MONTH & DATE

6/1 - 9/15

MOWED

WITH

ADDITIVE

SLOPES

SEED MIX

WITH

ADDITIVE

FALL & WINTER

MONTH & DATE

9/15 - 4/1

MOWED

SEED MIX

WITH

ADDITIVE

SLOPES

WITH

ADDITIVE

	ROADSIDE DEVELOPMENT SUMMARY										SEED MIX WITH ADDITIVE	SEED WITH ADDITIV
PROJECT NUMBERS	O TOPSOIL 2" CLASS A B	REGULAR SEED	OVER SEEDING	LIME	FERT. 15-30-15	LEGUME SEED	LEGUME OVER SEEDING	TEMPORARY SEEDING			SPR MONTH	
	ACRES	LBS.	LBS.	TONS	TONS	LBS.	LBS.	LBS.			4/1 -	6/1
										PROJECT NUMBERS		
										FINE FESCUE		

⊗	DENOTES	ITEM(S)	TO BE F	PAID FOR	ON BASIS	OF PLAN	QUANTITIES IN	
	ACCORDAN	ICE WITH	H CURRE	NT ROAD	AND BRIDG	E SPECIFI	CATIONS.	

	L
NOTES:	
APPROXIMATE	_

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

MEVISED	STATE	FEDERAL AID		SEEDL		
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	W.					

ACRES WILL BE DISTURBED ON THIS PROJECT AND WILL REQUIRE THE ESTABLISHMENT OF GRASSES AND/OR LEGUMES.

NOTES FOR FIELD USE ONLY

OVERSEEDING RATES SHALL BE 100 PERCENT OF THE SEED MIXTURE SUPPLIED WITHOUT FERTILIZER.

THE ENGINEER WILL REQUIRE THE CONTRACTOR TO PERFORM SUPPLEMENTAL SEEDING WHEN LESS THAN 75 PERCENT UNIFORM STAND OF THE PERMANENT GRASS SPECIFED IN THE MIXTURES IS OBTAINED. LANGUAL SPECIES SUCH AS RYE AND MILLET ARE TEMPORARY VARIETIES AND REQUIRE SUPPLEMENTAL SEEDING.)

NOTES APPLY TO SCHEDULE

LEGUME SEED MIXES (BIRDSFOOT TREFOIL, CROWNVETCH, AND SERICEA LESPEDEZA) AND WEEPING LOVEGRASS SHALL NOT BE USED ON SHOULDERS AND OTHER LOCATIONS FLATTER THAN 3:1 SLOPE.

LEGUME SEED SHALL BE INOCULATED WITH THE APPROPRIATE STRAIN AND RATE OF BACTERIA. FOR HYDROSEEDING, USE FIVE TIMES THE DRY SEEDING RATE OF INOCULATE.

A TEMPORARY MIX OR EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ONLY ON AREAS THAT ARE TO BE REGRADED OR LATER DISTURBED, IF LEFT DORMANT FOR MORE THAN 15 DAYS.

EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ON AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN 15 DAYS BETWEEN DECEMBER 1 AND FEBRUARY 28.

EROSION CONTROL MULCH, AS LISTED ON THE VDOT APPROVED PRODUCTS LIST, SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMENDATIONS.

EROSION CONTROL MULCH SHALL PROVIDE 100 PERCENT COVERAGE OF ALL DENUDED AREAS

. SPRING & SUMMER AND FALL & WINTER DEFINED FOR THE PURPOSE OF DETERMINING WHETHER HULLED OR UNHULLED BERMUDAGRASS AND SERICEA LESPEDEZA SEED IS REQUIRED:

SPRING & SUMMER 4/1 - 9/15 - USE HULLED SEED FALL & WINTER 9/15 - 4/1 - USE UNHULLED SEED

TYPE I MULCH (STRAW) TO BE USED ON NEWLY SEEDED AREAS ADJACENT TO ALL WATERWAYS, WETLANDS, SWAMPS, OR ANY AREA IN WHICH DRANAGE FLOWS TOWARD AREAS UNDER THE JURISDICTION OF THE ENVIRONMENTAL REGULATORY AGENCIES.

TYPE I MULCH SHALL BE APPLIED TO PROVIDE A MINIMUM 90 PERCENT COVERAGE.

TYPE I MULCH SHALL BE TACKED WITH FIBER MULCH AT THE RATE OF 750 LBS. PER ACRE AND/OR MULCH TACKIFIER.

TYPE I MULCH (FIBER MULCH) MAY BE SUBSTITUTED FOR TYPE I MULCH AT THE RECOMMENDATION OF THE DISTRICT ROADSIDE MANAGER.

TYPE II MULCH SHALL BE APPLIED AT A RATE OF 1500 LBS. (NET DRY WEIGHT) PER ACRE TO PROVIDE A MINIMUM OF 90 PERCENT COVERAGE, AND SHALL BE APPLIED IN A SEPARATE

ALL TOPSOIL IS TO BE FREE OF HARD LUMPS, CLODS, ROCKS AND FOREIGN DEBRIS AND IS TO BE HAND RAKED TO TIE INTO EXISTING LAWNS.

ALL SEED MUST BE IN CONFORMANCE WITH VDOT SEED SPECIFICATIONS FOR GRASSES & LEGUMES AND BE PROVIDED AT THE PROJECT SITE IN BAGS NOT OPENED AND LABELED FOR USE ON VDOT PROJECTS WITH A GREEN TAG CERTIFYING INSPECTION BY THE VIRGINIA CROP IMPROVEMENT ASSOCIATION

MIX REQUIREMENTS THIS PROJECT

RECOMMENDATIONS FOR THE APPLICATION OF SEED MIXTURES (CORE MIX AND ADDITIVES), FERTILIZER, LIME, ETC. ARE TO BE OBTAINED FROM THE DISTRICT ROADSIDE MANAGER.

REVISED 7/03 SPECIAL DESIGN SECTION

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

REVISED	STATE	FEDERAL AID	STATE					
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EROSION CONTROL SUMMARY

	Sheet Number	Temp. Diversion Channel Lining CL.A TD-CL	Temp. Diversion Channel Lining CL.B TD-CL	F. Temp. Diversion Channel Excavation	Erosion Control Mulch	Protective Covering EC-2	Soil Stabilization Mat EC-3 Type A	Soli Stabilization Mat EC-3 Type B	Soli Stabilization Mat EC-3 Type C	en Rock Check Dam Type I EC-4	Rock Check Dam Type II EC-4	구 Temporary Silt Fence EC-5	구 Temporary Filter Barrier EC-5	Type A Drop Inlet Silt Trap	EC-6	Temp. SedIment Basin Excavation	Siliation Control Excavation	Temp. Sediment Riser Pipe 36	Temp. Sediment Riser Pipe 42"	Temp. Sediment Riser Pipe 48"	. Temp. Sediment Riser Pipe 54	Temp. Sediment Riser Pipe 60"	了 Temp. Sediment Riser Pipe 66'	Dewatering Basin EC-8	เลื Temporary Berm ESC-INS Ж	Fig. Temporary Construction Entrance ESC-INS X	Slope Drain ESC-INS	S Erosion Control Stone EC-1, Class I	유 Brush Silt Barrier ESC-INS ※	Turbidity Curtain, Pervious	Turbidity Curtain, Impervious
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* Not a pay item.

REV. 7/02 SPECIAL DESIGN SECTION

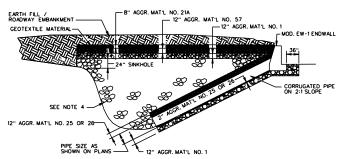
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	SEDIMENT TRAP	THRU TEMPORARY	SECTION	SIDE SLOPES	STORAGE	STORAGE	SEDIMENT BASIN	SILTATION CONTROL	DRY RIP RAP	95			WEIR (F	OCK CHECK	DAM TYPE ()							
	INFORMATION	SEDIMENT TRAP	THRU WEIR	(SS)	ELEV. (C)	ELEV. (B)	EXCAVATION CU. YARDS	EXCAVATION CU. YARDS	CLASS AI TONS	REMARKS			(SEE RO.	ROAD AND BRIDGE STD. EC-4 DETAILS NOT SHOWN)								
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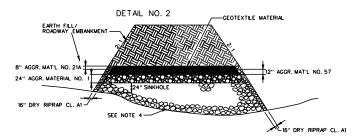
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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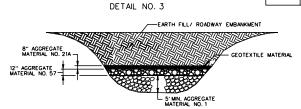
DETAIL NO. 1



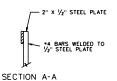
REMOVE ALL FOREIGN MATTER INCLUDING TRASH, REFUSE OR OTHER WASTE MATERIALS.
EXCAVATE THE BOTTOM OF THE SINK TO ROCK, EXCAVATE THE SIDES (BACK, AHEAD,
AND TOWARD TOO FIRE IS, DOPE) TO AN ANGLE OF REPOSE OF 27° (27° LS) COPE FROM
THE BOTTOM PLANE OF THE SINK, MOSTALL A PIPE OF SUFFICIENT LENGTH TO ROSUNE
OF AGGREGATE MATERIAL, NO, TO VERLANTO BY 20° A ROGREGATE MATERIAL NO, 25° OR 26° ACONG THE
SIDES AND TOP OF THE PIPE FOR PROTECTION AGAINST THE BACKFILL WITH
DRY RIP RAP, CLASS ITO A HEIGHT OF 24° ABOVE ORIGINAL GROUND AS SHOWN, CAP
WITH 12" AGGREGATE MATERIAL NO, 15° MOSTAGE ORIGINAL OR SUND AS SHOWN, CAP
WITH 12" AGGREGATE MATERIAL NO, 15° MOSTAGE ORIGINAL OR SHOWN, CAP
WITH 12" AGGREGATE MATERIAL NO, 12° MOGREGATE MATERIAL AND BACKFILL WITH
EARTH FILL AS NEEDED.

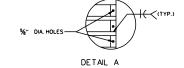


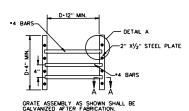
REMOVE ALL FOREIGN MATTER INCLUDING ALL VEGETATION, TRASH, REFUSE OR OTHER WASTE MATERIALS, EXCAVATE ALL UNSTABLE SOILS, FROM THE SIDES AND BOTTOM OF THE SIME BACKFILL WITH DRY RIP RAP, CLASS IT O, A FEIGHT OF Z. ABOVE THE SUFFACE DRANAGE TIME, CAP WITH ZAY AGGREGATE MATERIAL NO. 1, ZAY AGGREGATE MATERIAL NO. 1, ZAY AGGREGATE MATERIAL OF CONTROL OF THE SIDE OF THE



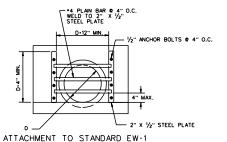
TREATMENT SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING TOPSOIL AND REMOVING EXCESS ORGANIC MATERIAL ALL FOREIGN MATTER INCLUDING TRASH, WHITE GODDS AND OTHER REUSE OR WASTE MATERIALS SHALL BE REMOVED. STRIPPED SINKHOLE SHALL BE BACKFILLED WITH A MINIMUM OF 5'DEPTH OF NO.1 AGGREGATE WATERIALD WITH 12'OF NO.5 7'DEOGREGATE WATERIAL BY OF AGGREGATE MATERIAL NO.21A. THE AGGREGATE SHALL BE OVERLAD WITH A GEOTEXTILE MATERIAL.







SPECIAL DESIGN GRATE DETAIL



FOR USE ON STANDARD EW-1

GENERAL NOTES:

- PRIOR TO ANY SINKHOLE EXCAVATION THE CONTRACTOR SHALL CONTACT THE DISTRICT MATERIALS ENGINEER.
- EACH SINKHOLE SHOULD BE TREATED ON AN INDIVIDUAL, SITE SPECIFIC BASIS DEPENDING ON THE CONDITIONS IN THE AREA.
- 3. CONSECUTIVE LAYERS OF AGGREGATE SHALL BE PLACED IN SUCH A MANNER AS TO PREVENT FUTURE MIGRATION OF SMALLER STONES INTO LARGER STONES.
- FULINE MIGNATION OF SMALLER STONES INTO LARGER STONES.

 A. WHEN THE DEPTH OF A SINCHOLE OR A DEPRESSION IS LESS THAN 10°. ACGREGATE MATERIAL NO. I SHALL BE USED FOR BACKFILL IN LIEU OF DRY RIP-RAP. THE ACGREGATE MATERIAL NO. I SHALL BE CAPPED WITH NO. 57 ACGREGATE, NO. 21A ACGREGATE, AMD CEDITE STREAM, NO. 1 SHALL BE CAPPED WITH NO. 57 ACGREGATE, NO. 21A ACGREGATE, AMD CEDITE ATTENDED TO THE STREAM, AS NOTED ON THE APPLICABLE DETAIL.

 5. EXCAVATION NECESSARY FOR PLACEMENT OF THE SINCHOLE FILL SHALL BE MEASURED AND PAD FOR AS REGULAR EXCAVATION NA ACCORDANCE WITH THE SECTION 30.3 OF THE SPECIFICATIONS. AND BE MEASURED AND PAD FOR IN ACCORDANCE WITH APPLICABLE SECTIONS.
- 6. GEOTEXTILE MATERIAL SHALL CONFORM TO SECTION 245.03(B) OF THE SPECIFICATIONS
- 7. BASIS OF PAYMENT FOR SPECIAL DESIGN GRATE WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH. THIS PRICE SHALL INCLUDE ALL COST FOR FURNISHING THE FABRICATED GRATE AND ITS INSTALLATION. ALL HARDWARE, COUPMENT, ABOR, TOOLS, GALVANIZING AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE PER EACH COST.

NEW 11/02 SPECIAL DESIGN SECTION DRAWING NO. 2944