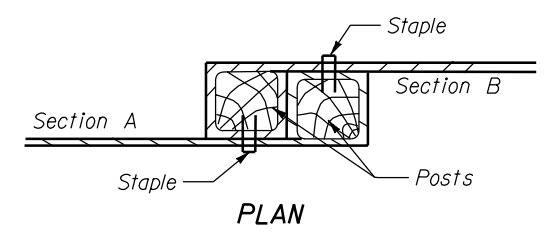
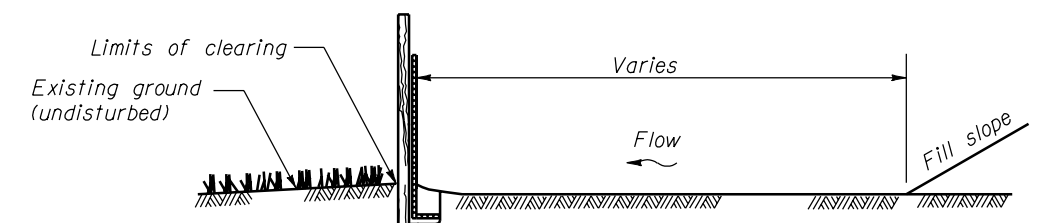


ELEVATION

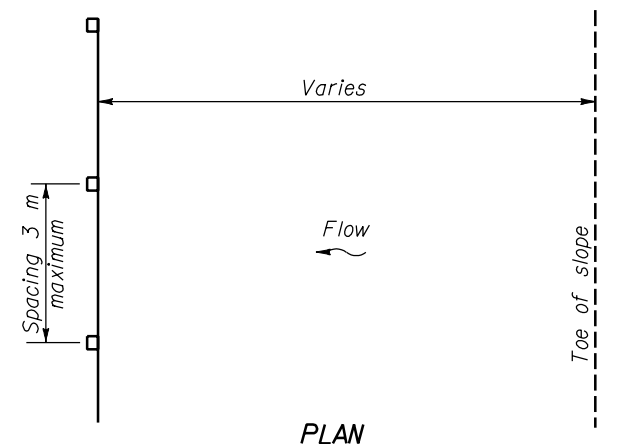


PLAN

JOINING TWO ADJACENT SILT FENCE SECTIONS

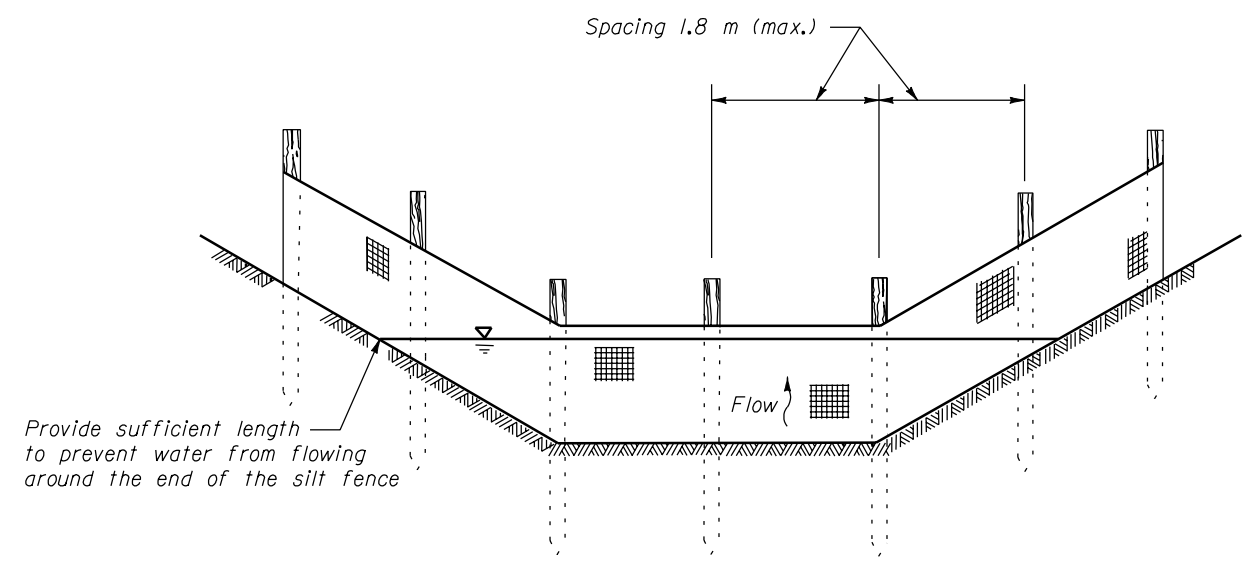


ELEVATION



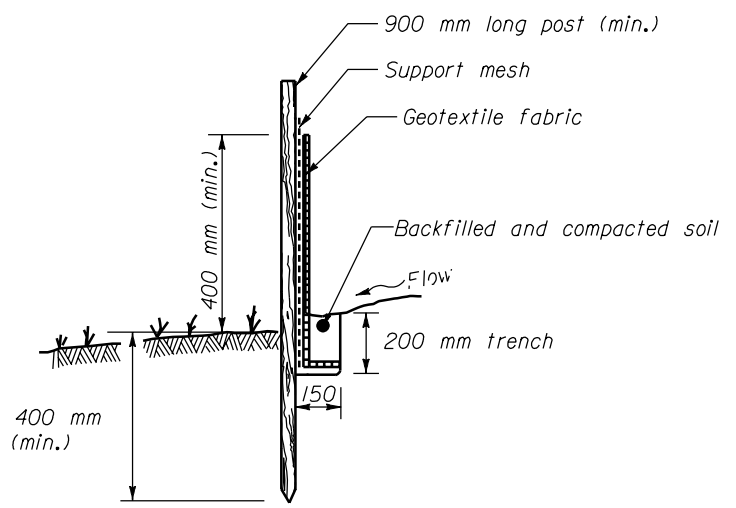
PLAN

SILT FENCE INSTALLATION AT TOE OF FILL



SILT FENCE INSTALLATION IN A DRAINAGE DITCH

(See note 2)



POST AND FABRIC INSTALLATION DETAIL

NOTE:

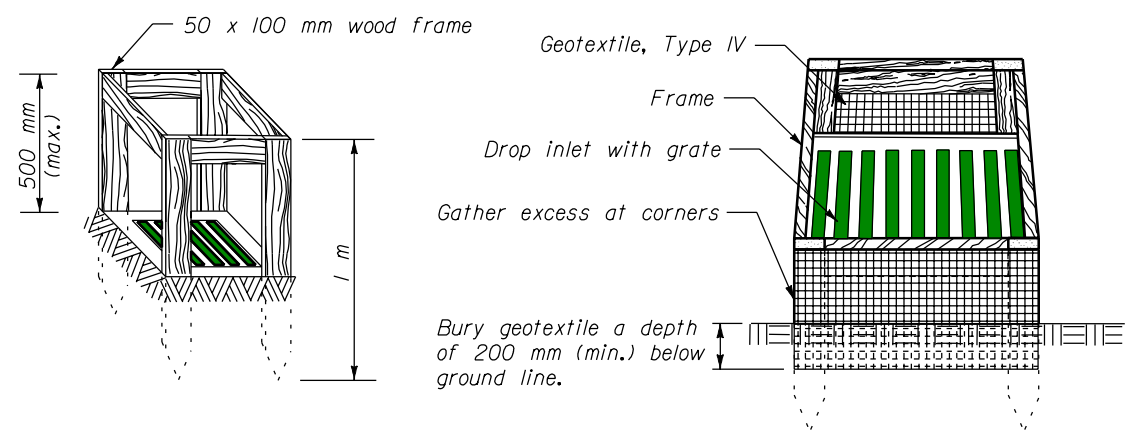
1. Dimensions not labeled are in millimeters.
2. Use drainage ditch installation for low flow conditions only when specified on Erosion Control Plan.
3. Alternate pre-assembled silt fence options will be allowed as long as specified dimensions are satisfied. Follow manufacturer's information for installation procedures.

NO SCALE

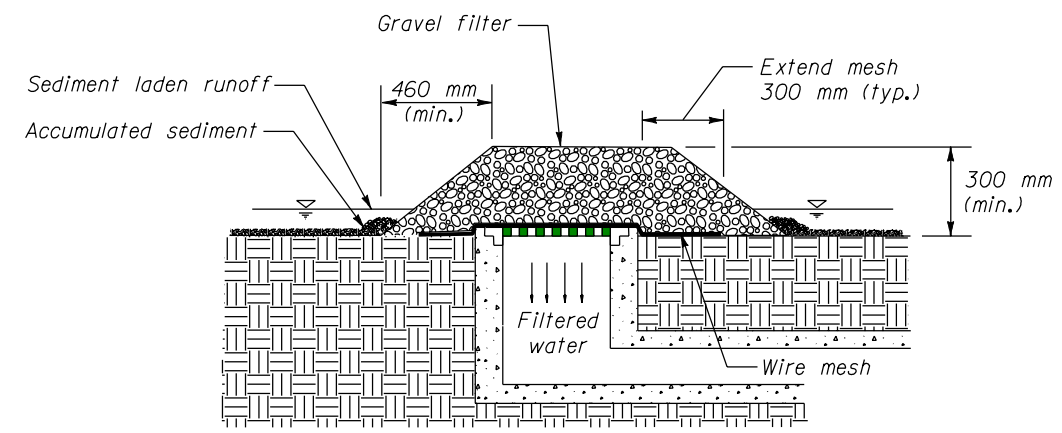
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
SILT FENCE	
STANDARD APPROVED FOR USE 3/1996	STANDARD
REVISED: 6/1997	M157-1

16 NOV 2000

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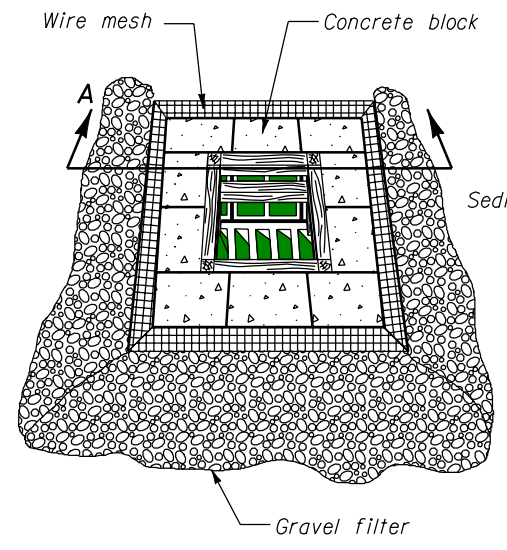


SILT FENCE DROP INLET PROTECTION (TYPE A)

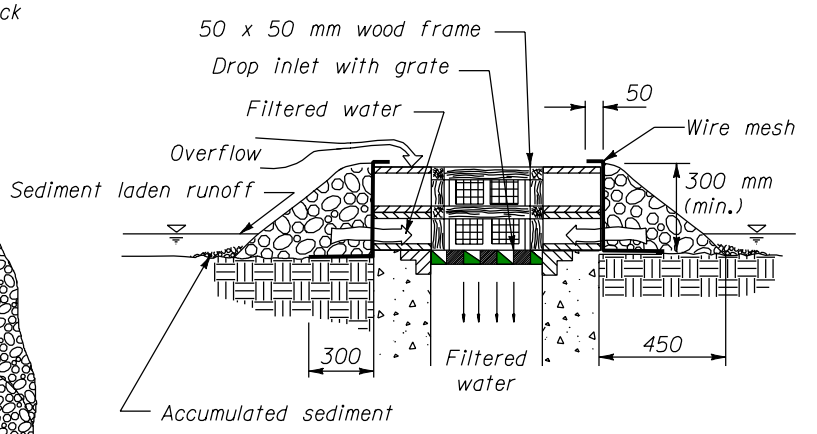


GRAVEL AND WIRE MESH DROP INLET PROTECTION (TYPE B)

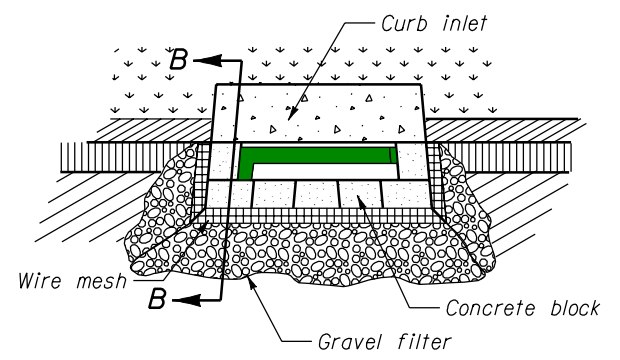
- NOTE:**
1. Dimensions not labeled are in millimeters.
 2. For gravel filters use 50 - 75 mm diameter coarse aggregate.
 3. Use wire mesh with 12 x 12 mm openings.
 4. Use Type A inlet protection in sump locations only.
 5. Use Type B inlet protection only in sump locations where heavy concentrated flows are not expected. Do not use where ponding around the structure might cause inconvenience or damage.



BLOCK AND GRAVEL DROP INLET PROTECTION (TYPE C)

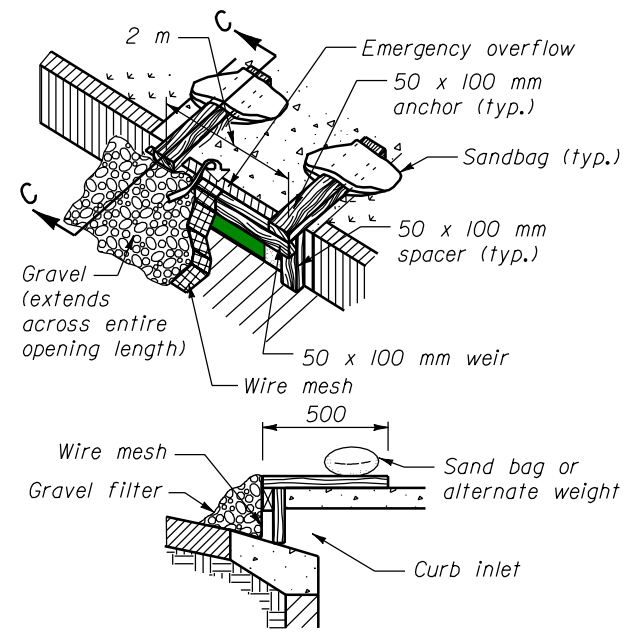


SECTION A-A



SECTION B-B

CURB INLET PROTECTION, BLOCK AND GRAVEL (TYPE D)



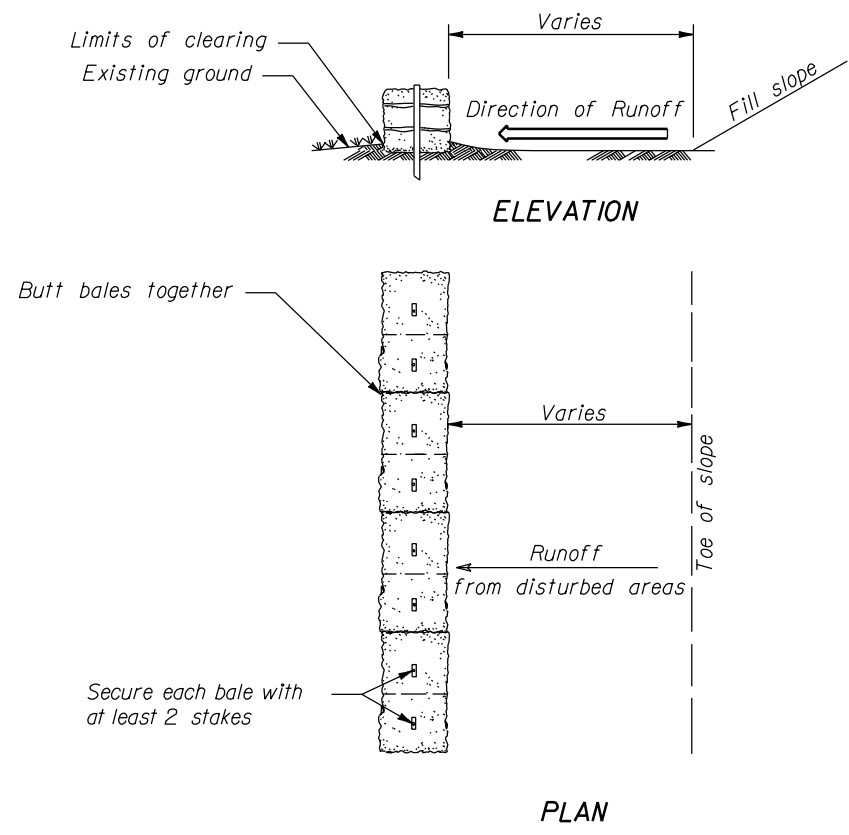
SECTION C-C

CURB INLET PROTECTION, WOODEN WEIR (TYPE E)

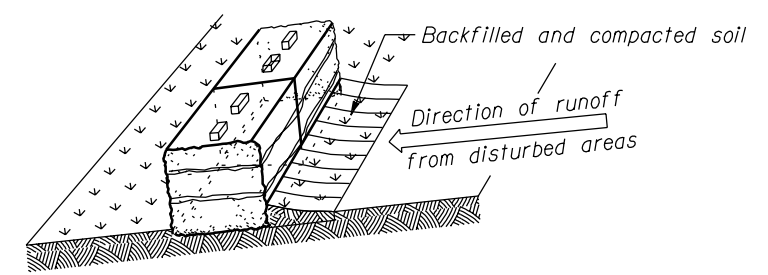
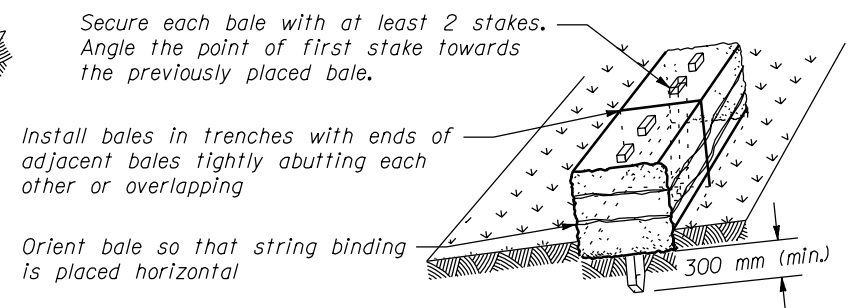
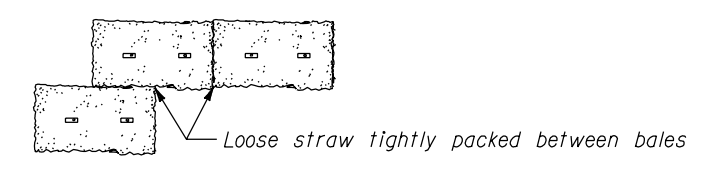
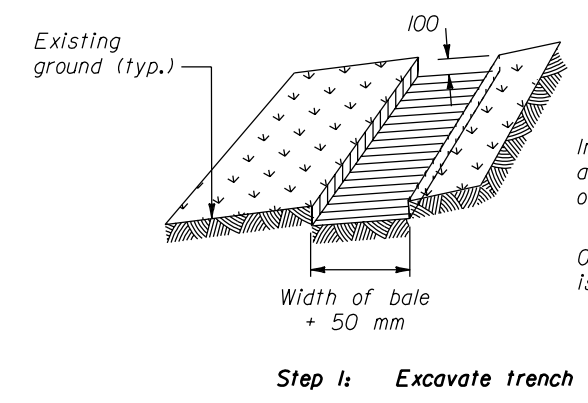
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
TEMPORARY INLET PROTECTION	
STANDARD APPROVED FOR USE 3/1996	STANDARD M157-2

NO SCALE

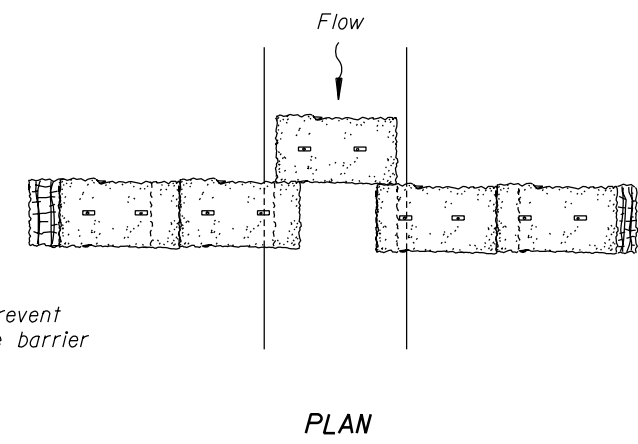
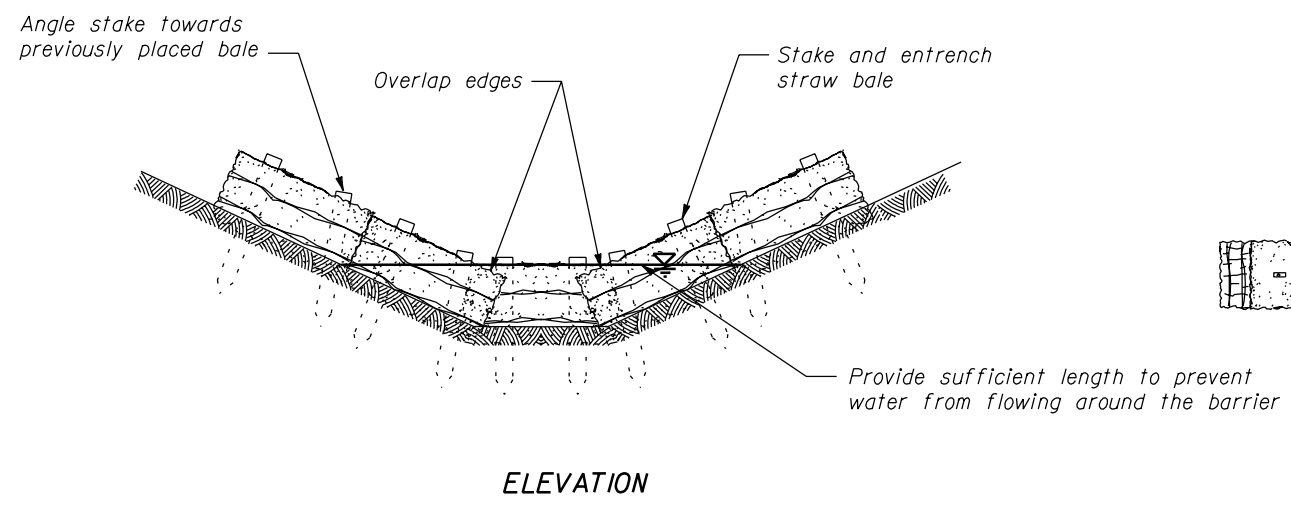
- NOTE:**
1. Dimensions not labeled are in millimeters.
 2. Use straw bales in drainage ditches only for low flow conditions and when specified on the Erosion Control Plans.



INSTALLATION OF A STRAW BALE BARRIER AT TOE OF FILL



PROPERLY STAKED AND ENTRENCHED STRAW BALES



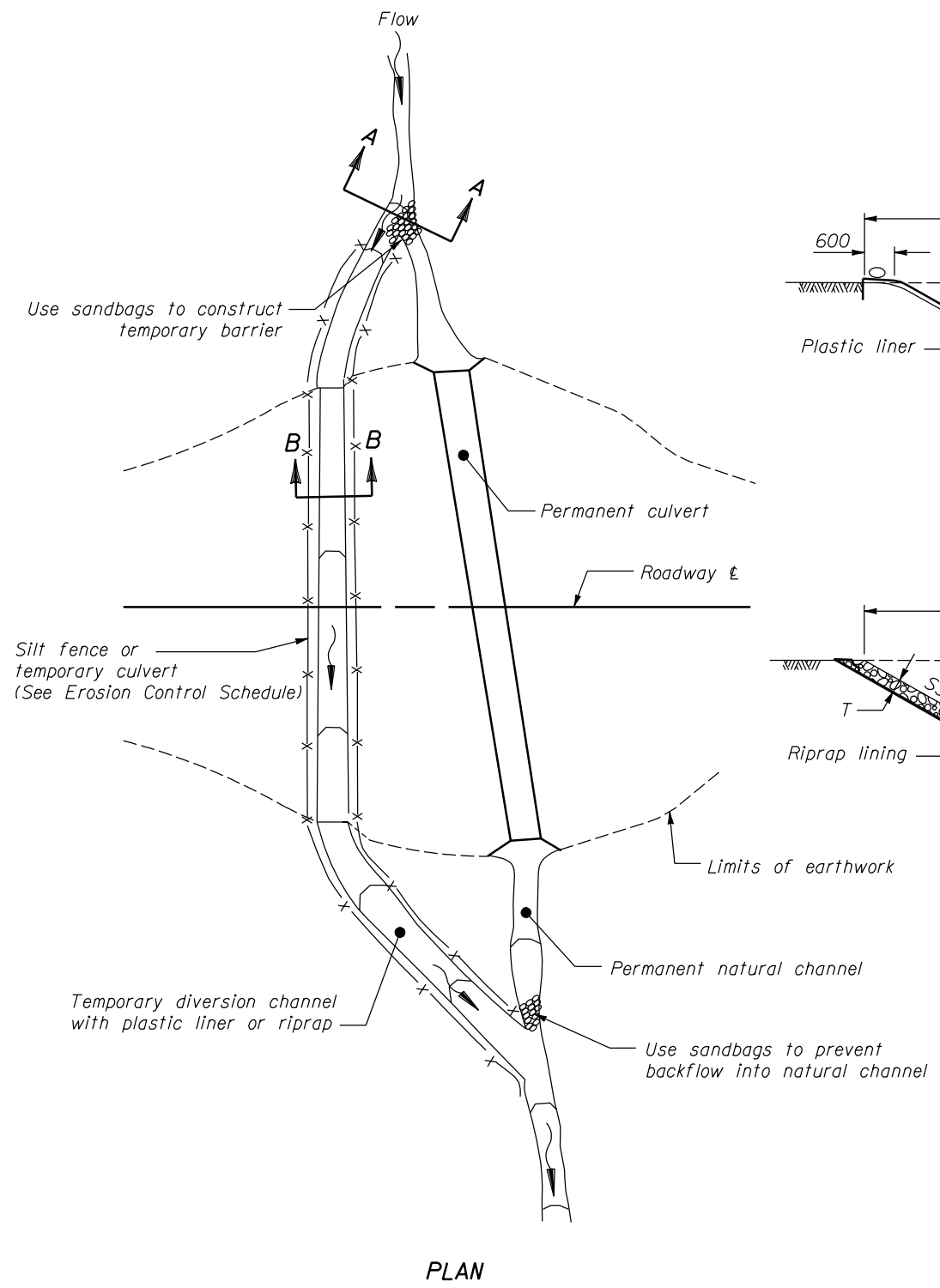
INSTALLATION OF A STRAW BALE BARRIER IN DITCH
(See note 2)

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
STRAW BALES	
STANDARD APPROVED FOR USE 3/1996	STANDARD
REVISED:	M157-3

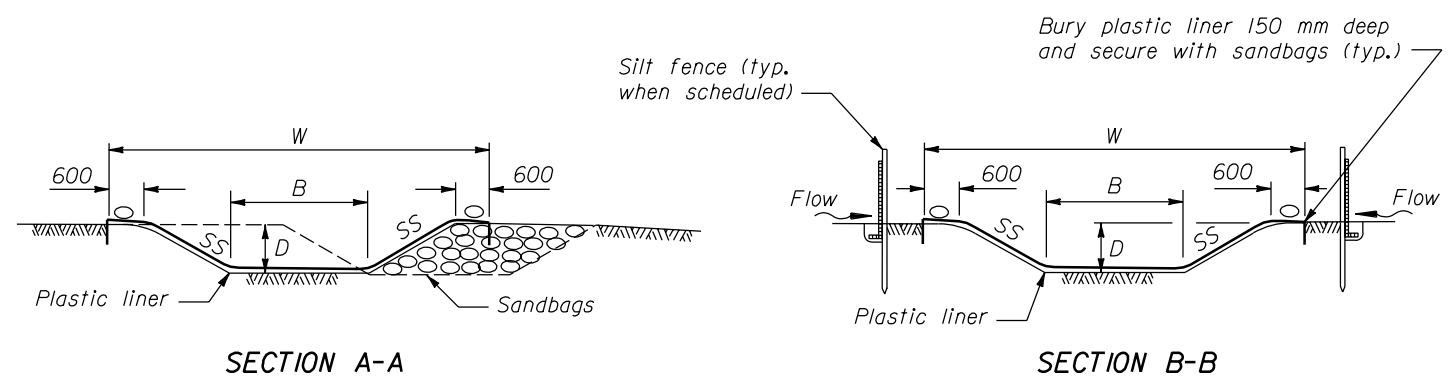
NO SCALE

NOTE:

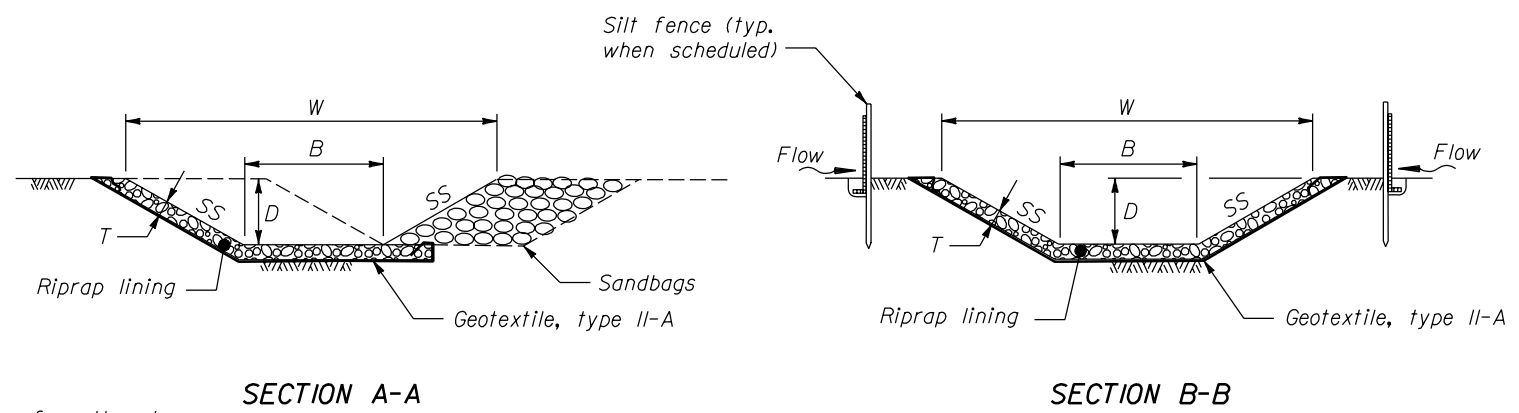
1. Dimensions not labeled are in millimeters.
2. See Erosion Control Schedule for temporary culvert diameter, riprap class, channel dimensions and quantities.
3. Use plastic liner or riprap along the entire length and width of the temporary diversion channel.
4. Construct channel at a minimum grade of 0.5 percent.
5. Do not construct with longitudinal joints if using a plastic liner. Bury the upstream edge of the liner a minimum of 150 mm deep and secure with riprap or sandbags.
6. Compact temporary culvert backfill using one of the methods listed in specification 204.11(a).



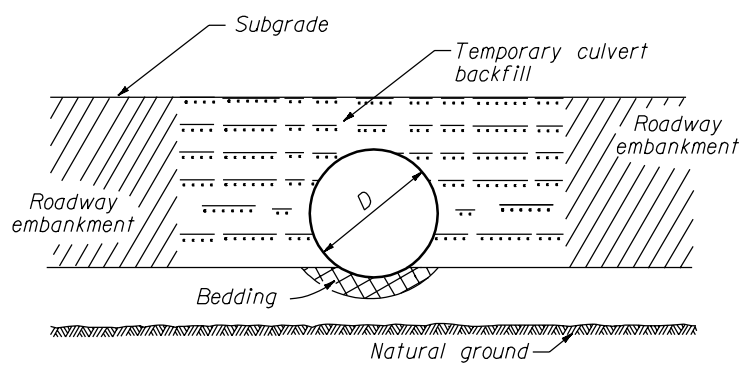
DIVERSION CHANNEL



PLASTIC LINED DIVERSION CHANNEL



RIPRAP LINED DIVERSION CHANNEL



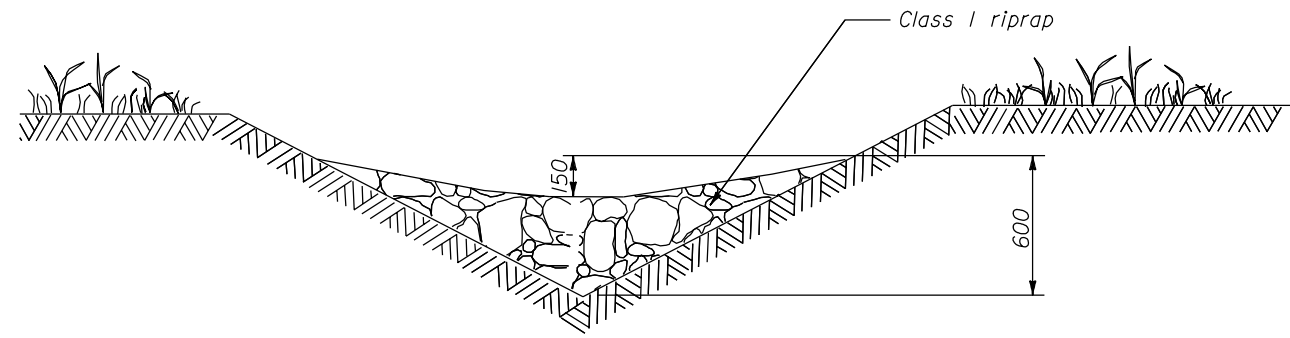
TEMPORARY CULVERT

NO SCALE

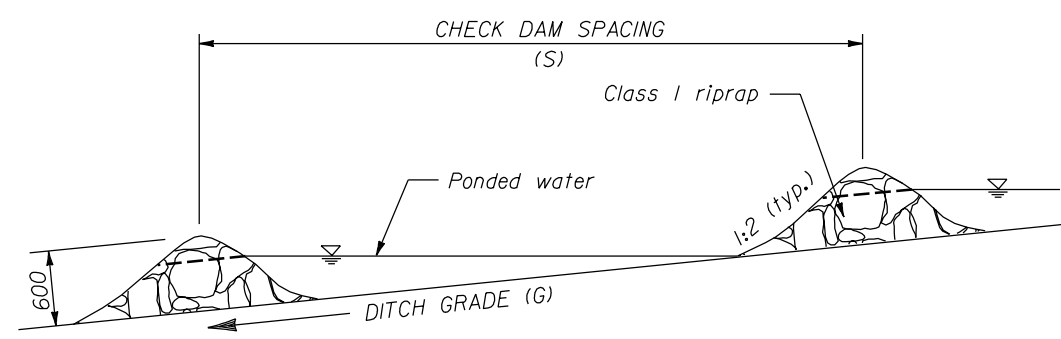
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
TEMPORARY DIVERSION CHANNELS	
STANDARD APPROVED FOR USE 3/1996 REVISED: 12/1998	STANDARD M157-5

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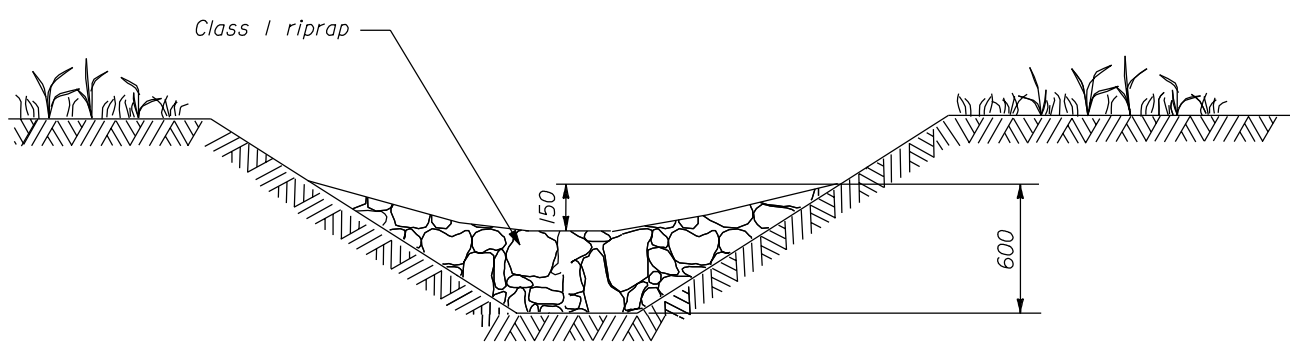
NOTE:
 1. Dimensions not labeled are in millimeters.



CROSS SECTION
 V DITCH



PROFILE VIEW
 DITCH



CROSS SECTION
 TRAPEZOIDAL DITCH

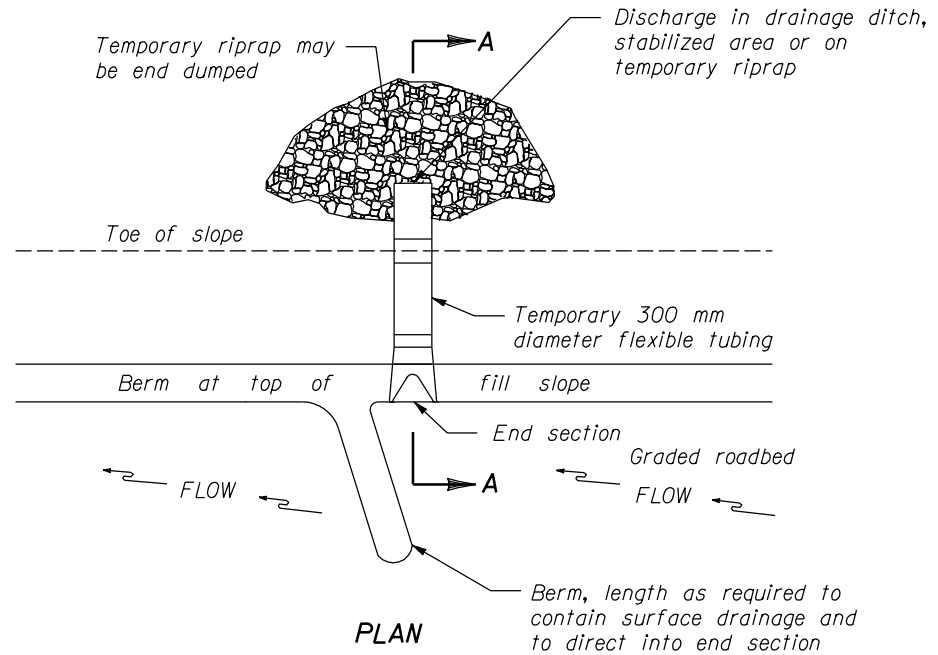
DITCH GRADE (G) *	CHECK DAM SPACING(S)
2%	23 m
3%	15 m
4%	12 m
5%	9 m
6%	7.5 m

* Do not use Check Dams below 2% or above 6% ditch grades

NO SCALE

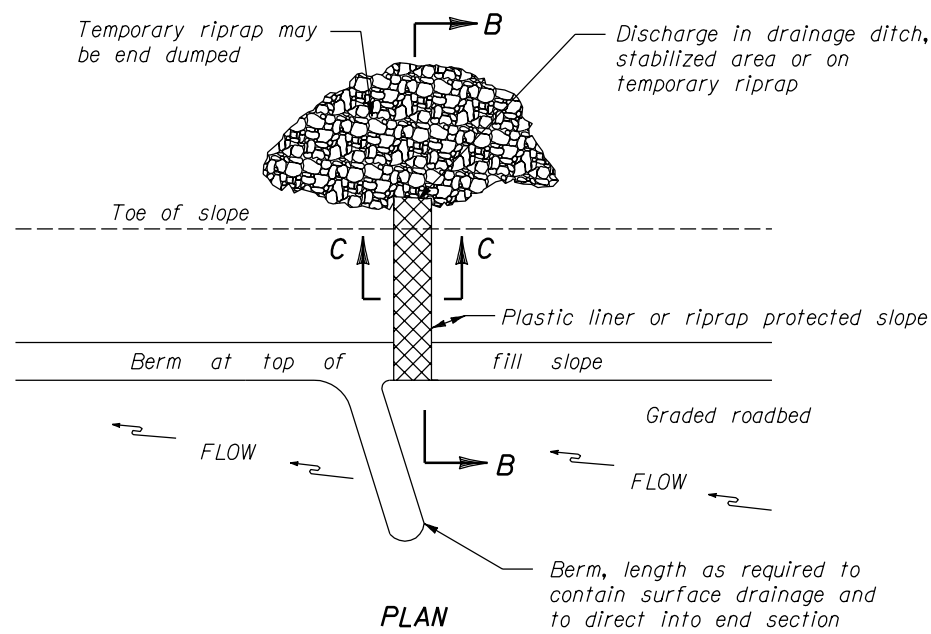
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
CHECK DAM	
STANDARD APPROVED FOR USE 3/1996	STANDARD
REVISED:	M157-6

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PLAN

SLOPE DRAINS

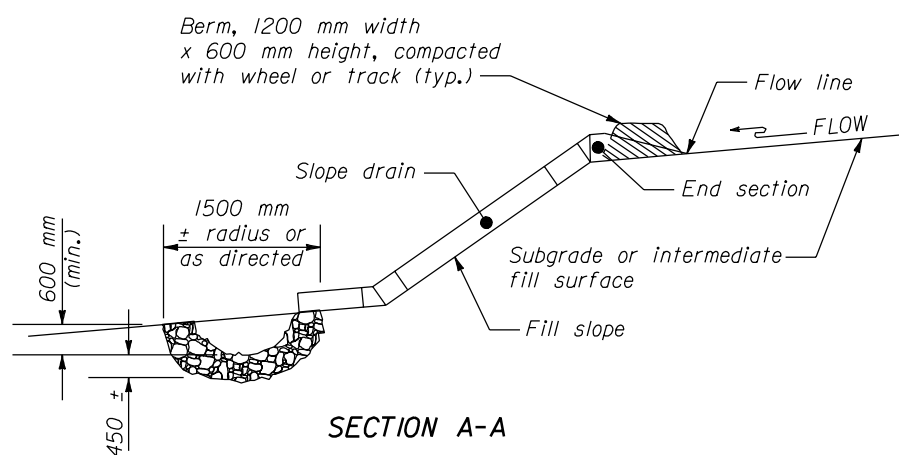


PLAN

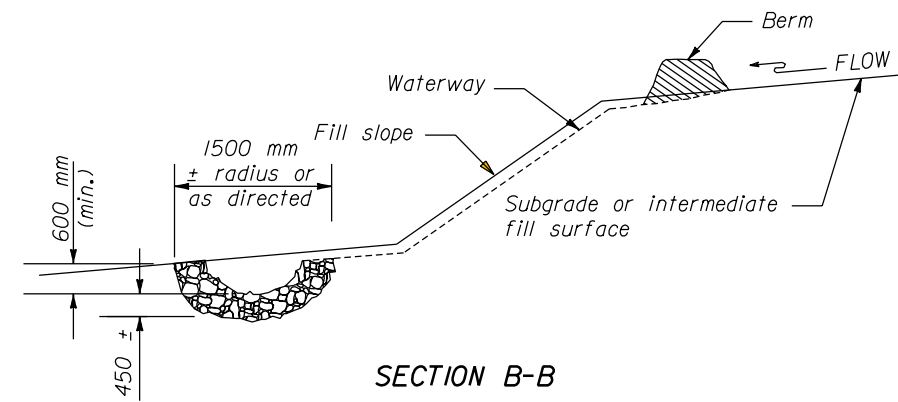
PLASTIC LINED WATERWAY

NOTE:

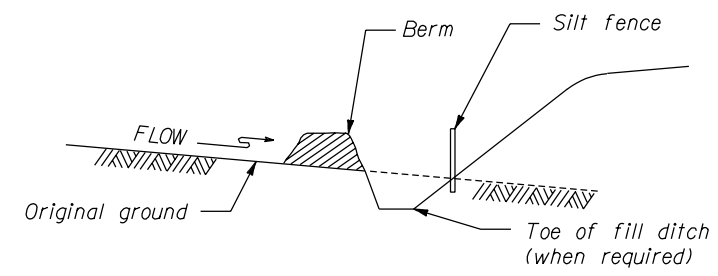
1. Dimensions not labeled are in millimeters.
2. Use temporary slope drains (berms, drains, and riprap) as the embankment is constructed. Use spacings as shown on the Erosion Control Plans or as designated by the CO. Place all slope drains at the end of each work shift. Use slope drains until the slopes are permanently stabilized.
3. Construct temporary berms at the top of all erodible cut slopes as shown on the Erosion Control Plans or as designated by the CO. Use check dams to reduce the runoff velocity when existing grades are steep.
4. Do not use transverse or longitudinal joints in plastic liner. Plastic liner is not required for rock embankments.
5. Use toe-of-fill slope berms to divert offsite runoff away from disturbed areas.
6. Seed and mulch all cut slope berms and toe-of-fill berms immediately after berm construction.
7. Use Class 2 temporary riprap.



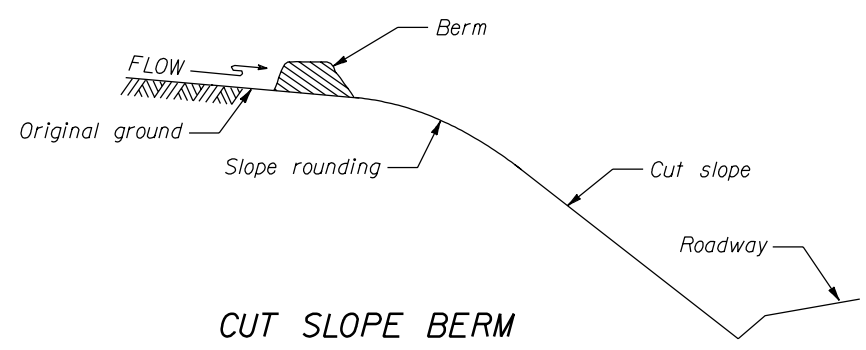
SECTION A-A



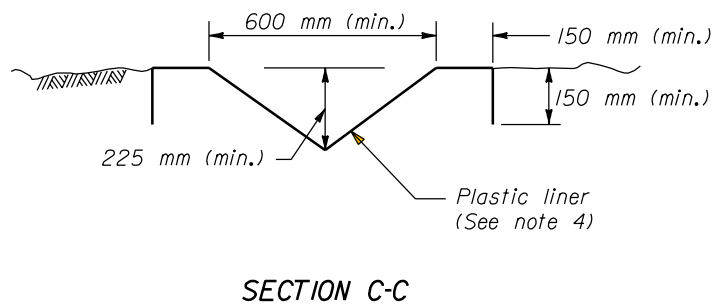
SECTION B-B



TOE-OF-FILL SLOPE BERM



CUT SLOPE BERM

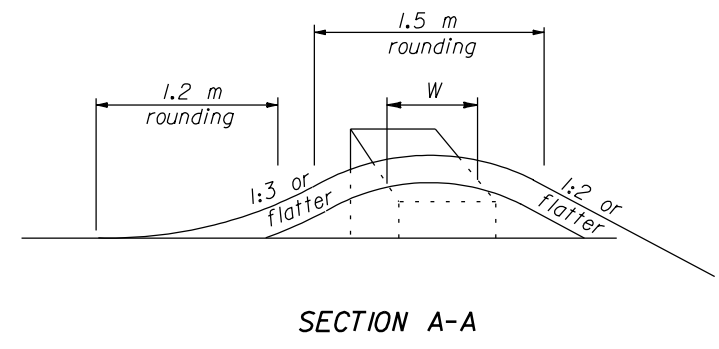
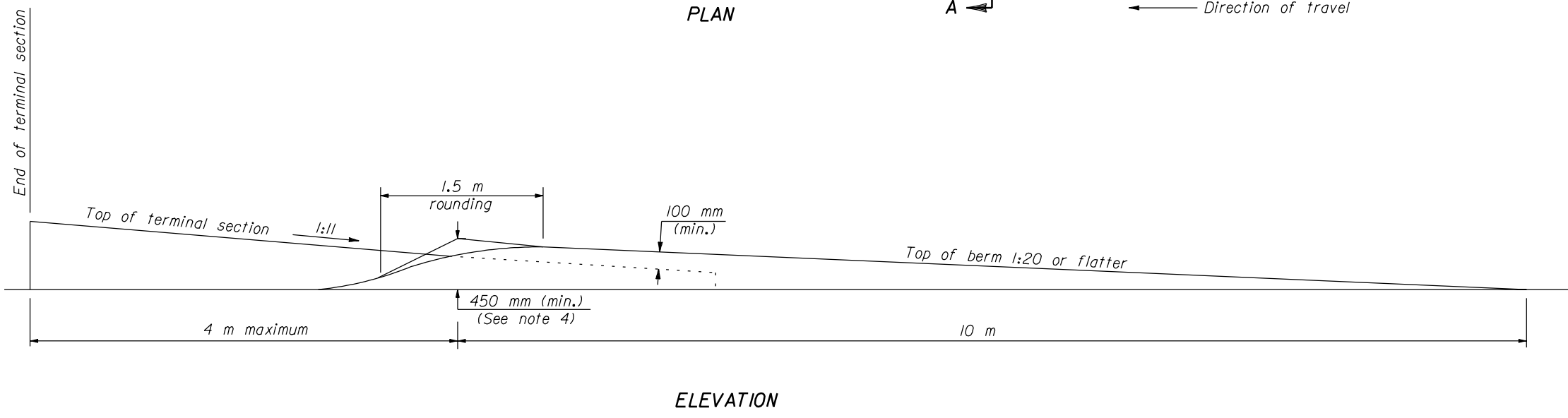
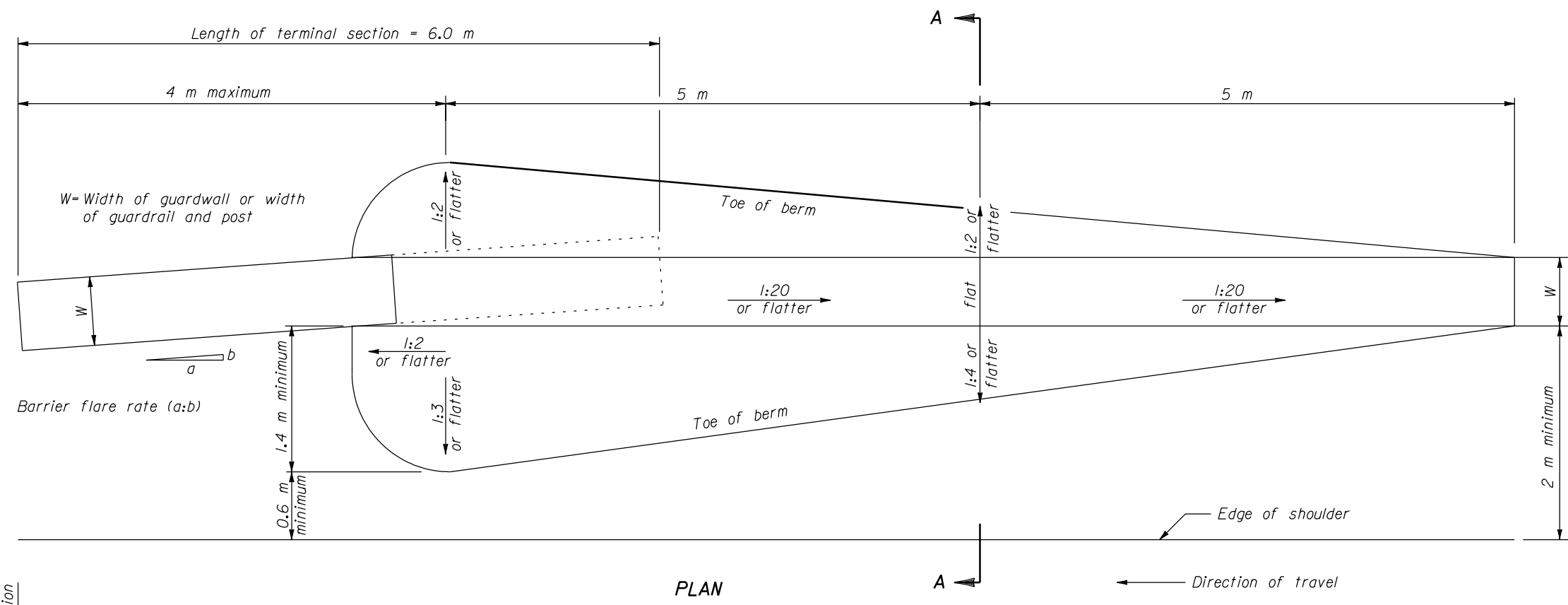


SECTION C-C

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
TEMPORARY EROSION CONTROL BERMS, SLOPE DRAINS AND LINED WATERWAYS	
STANDARD APPROVED FOR USE 3/1996	STANDARD
REVISED:	M157-7

NO SCALE

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- NOTE:**
1. Dimensions not labeled are in millimeters.
 2. Vary the actual dimensions of the berm according to the variable dimensions shown and as directed.
 3. See Standards M617-61, M618-3, and M620-2 for details of specified roadside barrier and terminal section.
 4. If the taper on the top of the terminal section is steeper than 1:11 the minimum height of the berm is 600 mm.

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 FEDERAL LANDS HIGHWAY

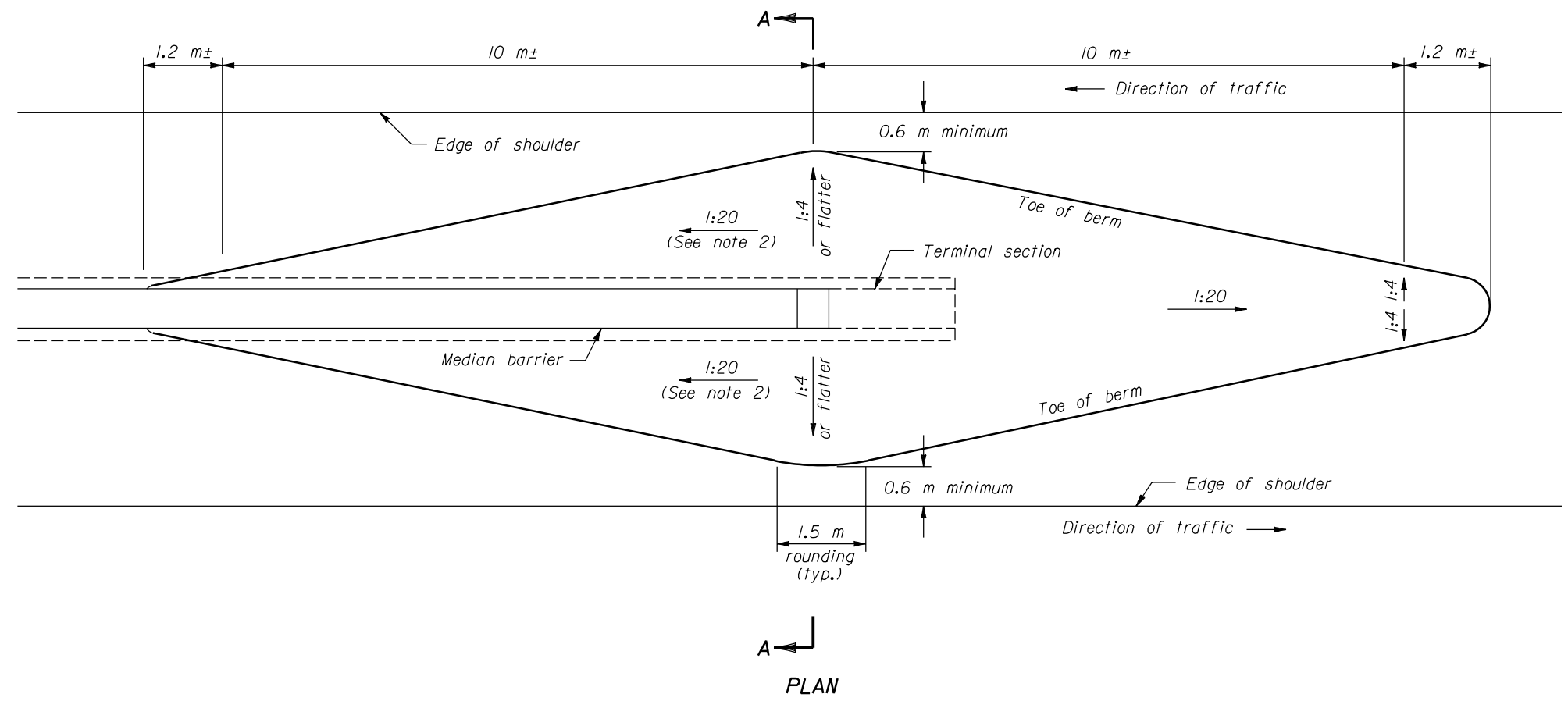
METRIC STANDARD

EARTH BERM FOR ROADSIDE BARRIER TERMINAL SECTIONS

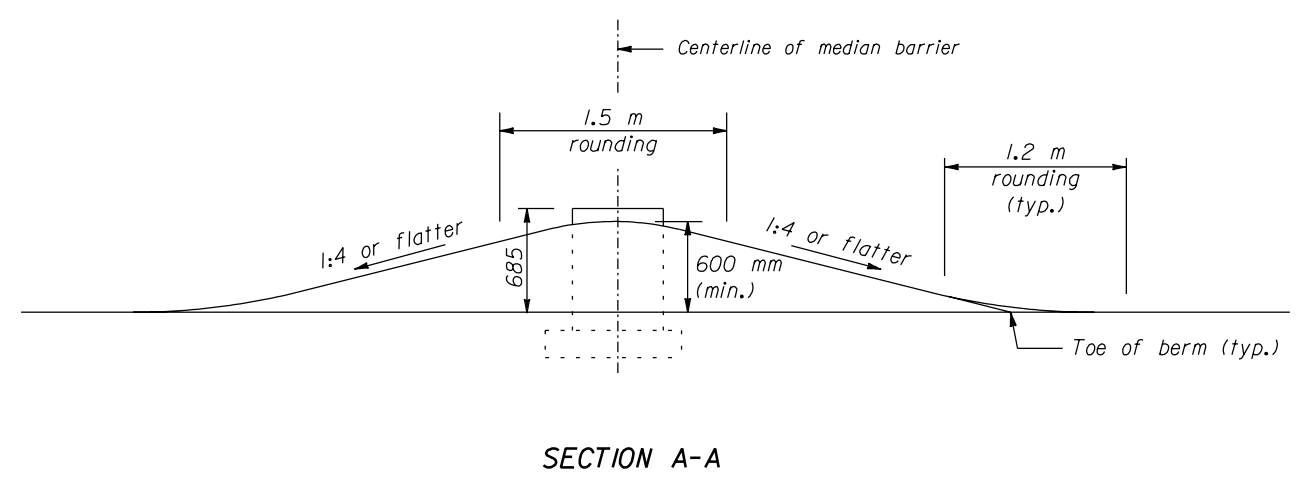
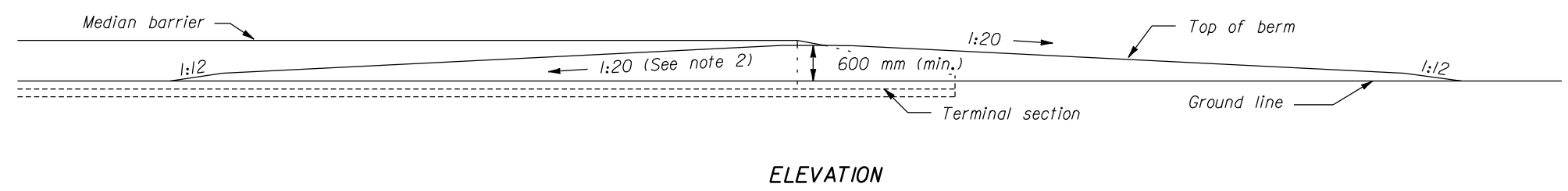
STANDARD APPROVED FOR USE 3/1996
 REVISED: 8/1997

STANDARD
M204-1

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- NOTE:**
1. Dimensions not labeled are in millimeters.
 2. The 1:20 slope is the desired slope. The slope may be adjusted to meet field conditions as directed, (maximum slope 1:6).
 3. See Standards M618-3 and M620-2 for details of specified roadside barrier and terminal section.



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
EARTH BERM FOR MEDIAN BARRIER TERMINAL SECTIONS	
STANDARD APPROVED FOR USE 3/1996	STANDARD
REVISED:	M204-2

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