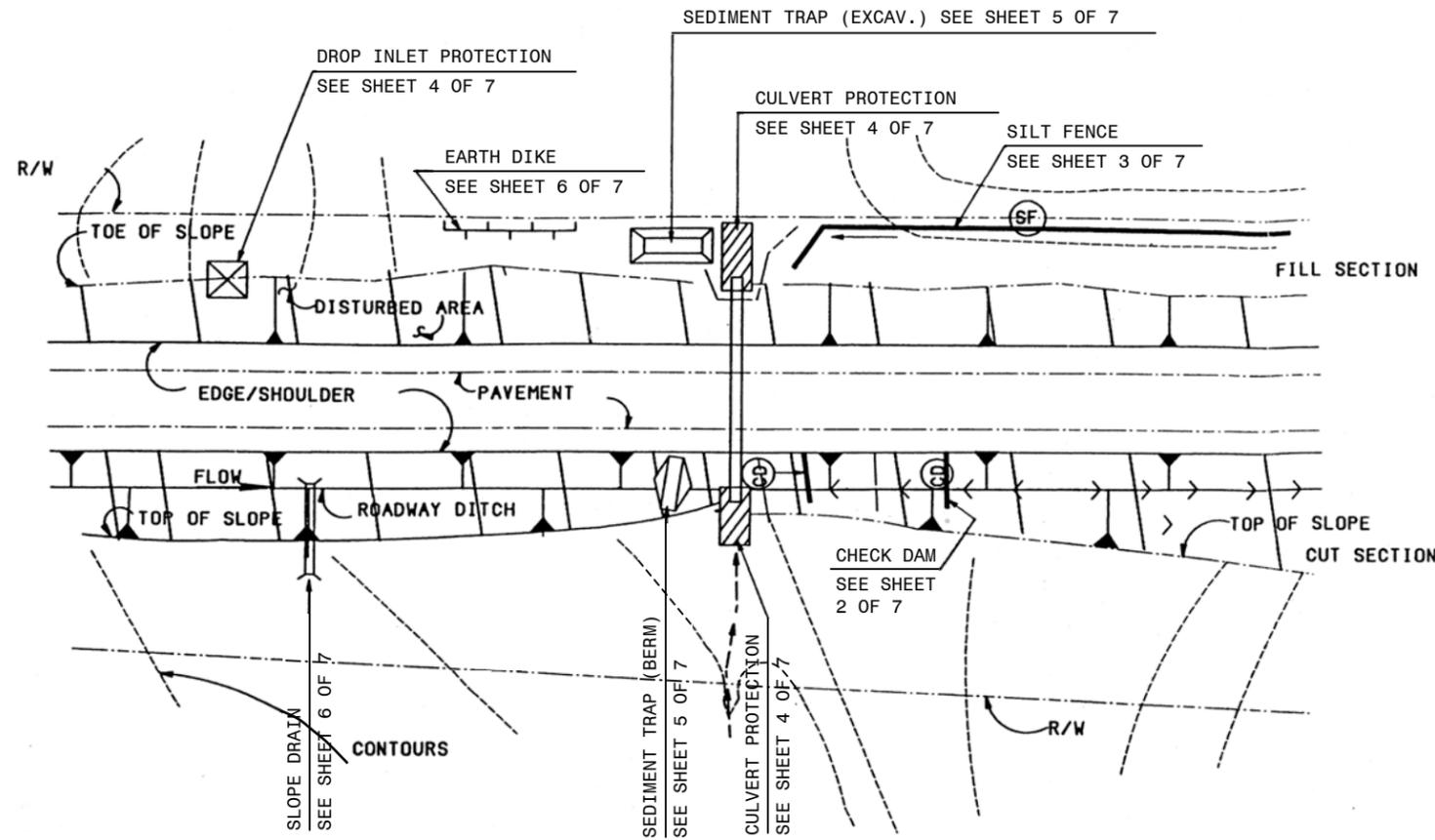


# TEMPORARY EROSION & SEDIMENT CONTROL MEASURES (T.E.S.C.M.)

## GENERAL NOTES:

1. THE SOIL RETENTION BLANKET INSTALLATION DETAILS SHOWN FOR CULVERT PROTECTION SHALL BE USED FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES UTILIZING SOIL RETENTION BLANKETS UNLESS OTHERWISE NOTED.
2. ROCK PLACEMENT USED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE SHEETS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES UNLESS OTHERWISE INDICATED.
3. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PLACED WITHIN THE CONSTRUCTION CLEAR ZONE SHALL BE INSTALLED WITH 8:1 SLOPES PARALLEL TO TRAFFIC AND 4:1 SLOPES PERPENDICULAR TO TRAFFIC.
4. SEDIMENT TRAPS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
5. CHECK DAMS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE CHECK DAM.
6. CULVERT PROTECTIONS SHALL BE INSTALLED UPON INITIATION OF EARTH ACTIVITIES AND MAINTAINED AS MUCH AS PRACTICAL UNTIL STABILIZATION IS COMPLETED AND ACCEPTED. CULVERT PROTECTIONS MAY BE REMOVED FOR PERIODS OF TIME AS REQUIRED DURING CONSTRUCTION TO COMPLETE ADJACENT IMPROVEMENTS.
7. THE CONTRACTOR MAY CONSTRUCT AN EARTH DIKE AS SHOWN, OR RELOCATE THE CHECK DAMS AS CONSTRUCTION PROGRESSES. NO DIRECT PAYMENT SHALL BE MADE FOR RELOCATION OF THE CHECK DAMS.



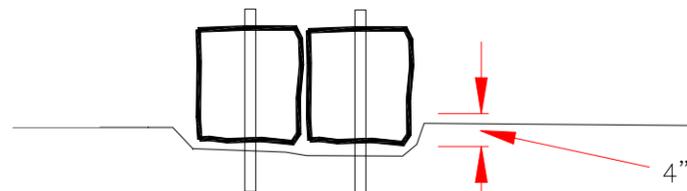
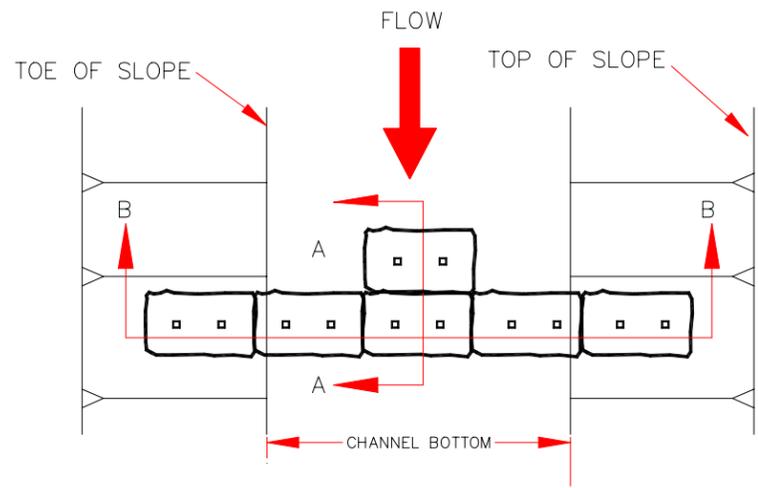
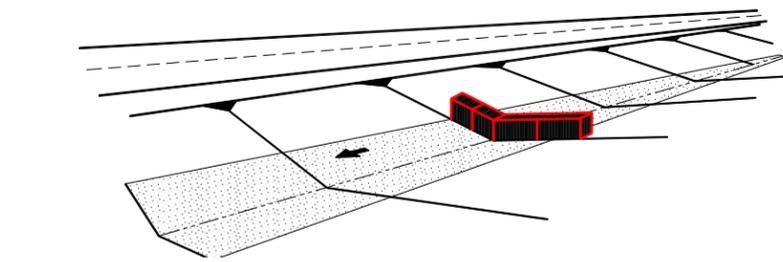
TYPICAL USAGE OF SELECTED EROSION AND SEDIMENT CONTROL MEASURES

### STANDARD SYMBOLS FOR EROSION AND SEDIMENT CONTROL MEASURES

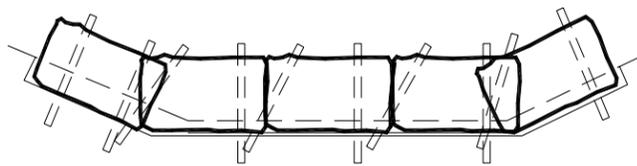
Silt Fence		Slope Drain		Sediment Trap, Berm	
Straw Bale		Drop Inlet Protection		Sediment Trap, Excavated	
Earth Dike (Berm)		Culvert Protection		Sediment Basin	
Diversion Channel (Swale)		Check Dam		Triangular Sediment Filter Dike	

IDENT. NO.	DESCRIPTION	DATE	BY
	REVISION (OR CHANGE NOTICE)		

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

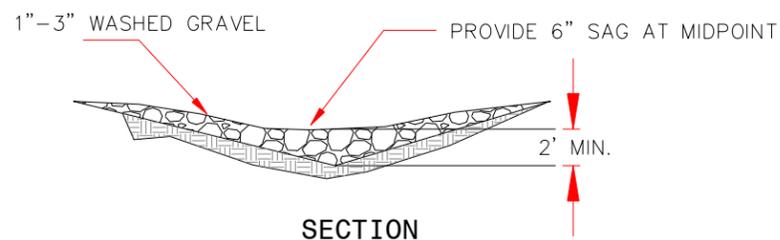
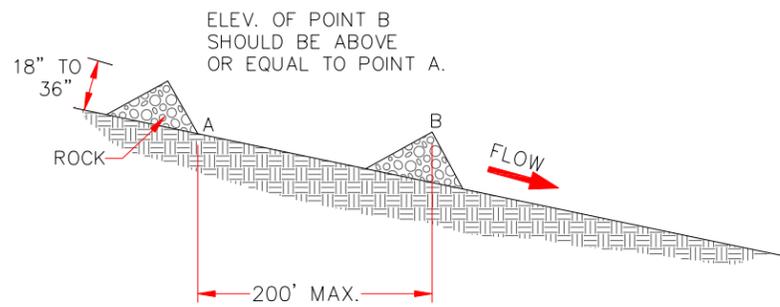
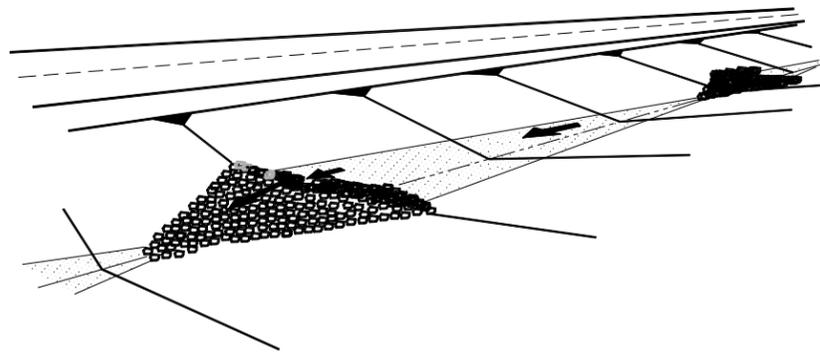


SECTION A-A

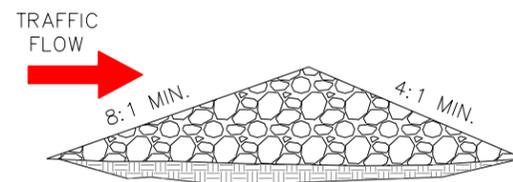


SECTION B-B

**TYPE III  
(STRAW BALE)**

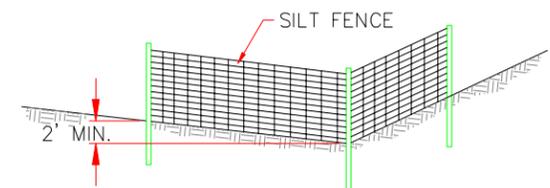
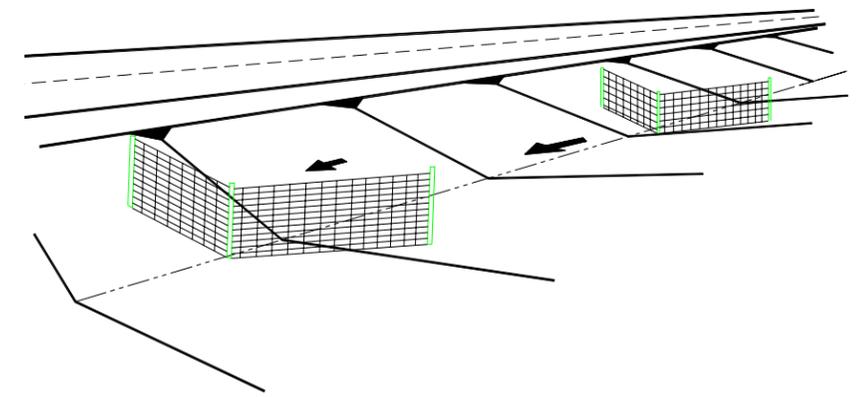


SECTION

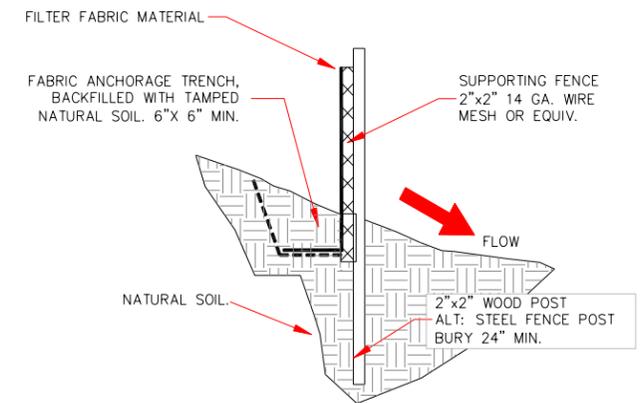


PROFILE

**TYPE II  
(STONE DAM)**



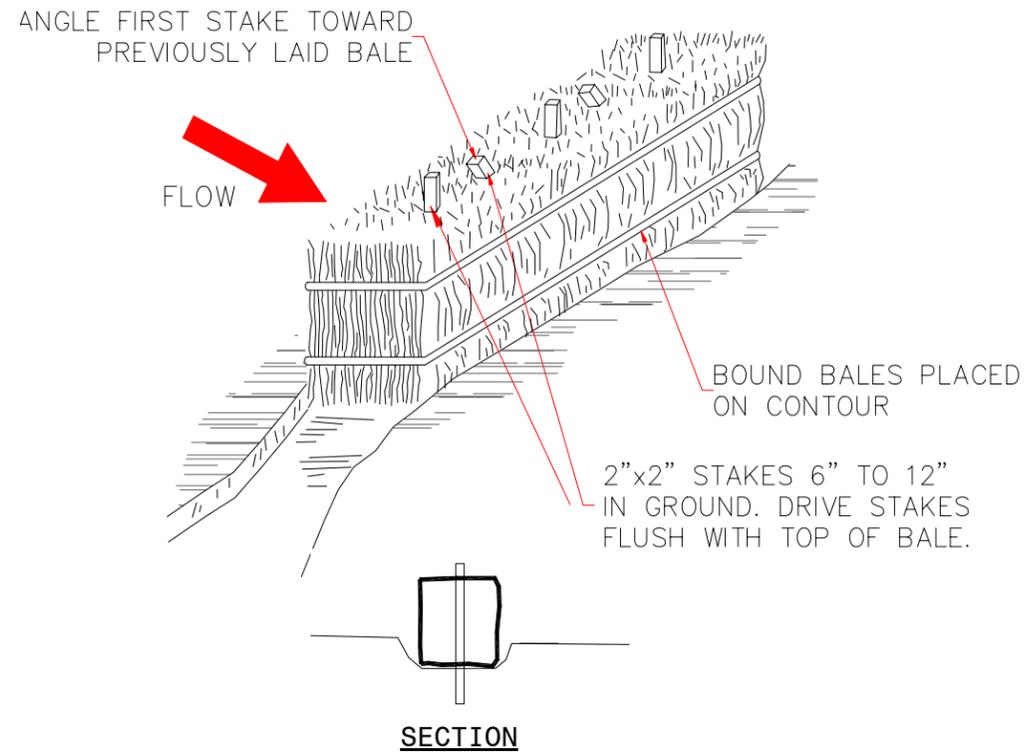
SECTION



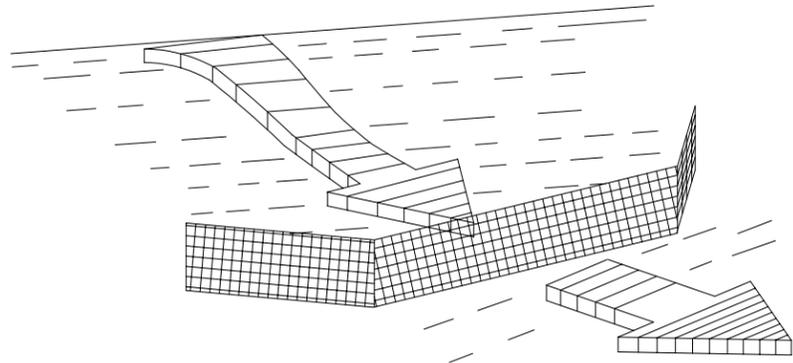
DETAIL

**TYPE I  
(SILT FENCE)**

IDENT. NO.	DESCRIPTION	DATE	BY
REVISION (OR CHANGE NOTICE)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
CHECK DAMS			



**TYPE II  
STRAW BALE OPTION**

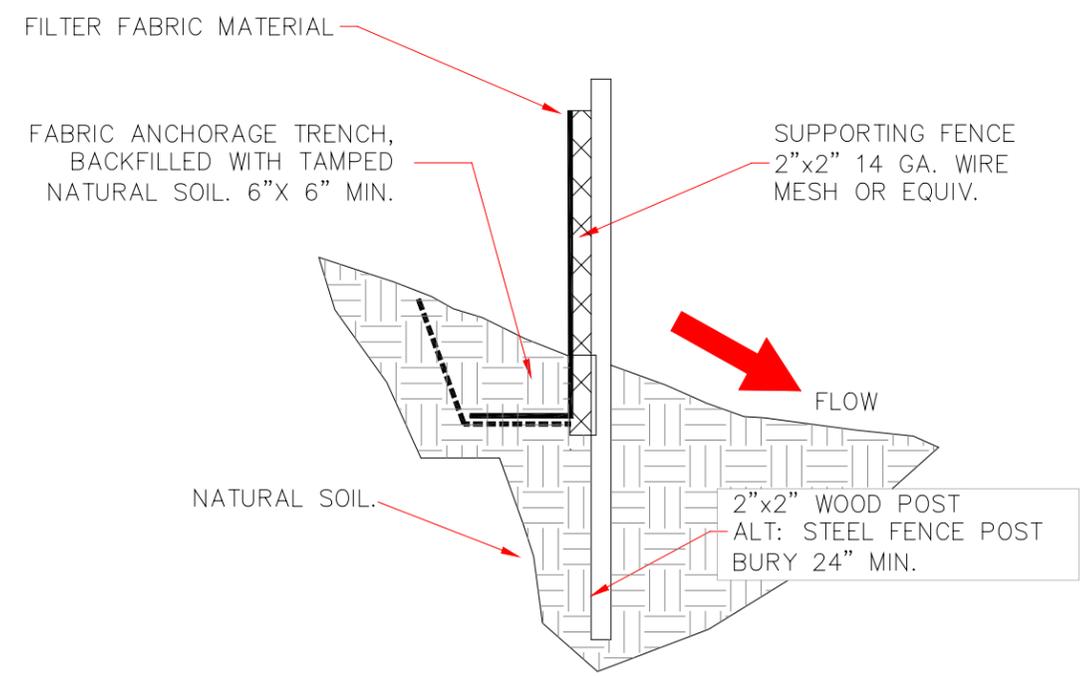
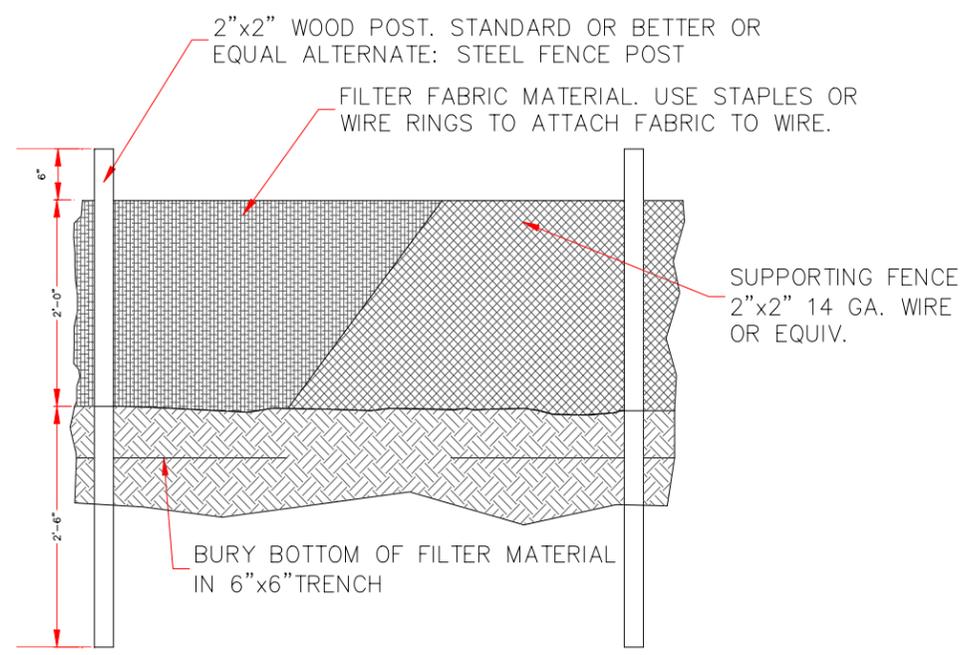


**TYPE I  
SILT FENCE OPTION**

**NOTES: SILT FENCE**

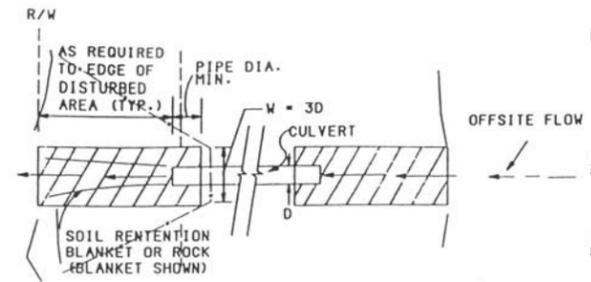
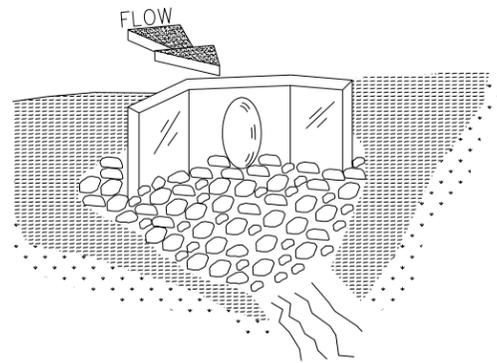
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POST SPACING FOR SILT FENCES TO MINIMIZE MAINTENANCE.

1. POST SPACING SHALL BE 4 FT. MAXIMUM WITHOUT SUPPORTING FENCE, 10 FT. MAXIMUM WITH SUPPORTING FENCE.
2. POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 LB. PER LINEAR FOOT.  
  
POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STEEL POSTS AS SPECIFIED ABOVE.
3. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN., 1 INCH MAX. MESH OPENINGS), SNOW FENCE, PLASTIC FENCE, OR APPROVED EQUAL.
4. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. FILTER FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 2 FT. CENTERS ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, FILTER FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.
5. WHEN SILT FENCE IS USED FOR CHECK DAMS INSTALLED IN DITCHES, A SUPPORTING FENCE SHALL BE PROVIDED, WITH MAXIMUM POST SPACING OF 10 FT.
6. STANDARD "T" OR "U" SECTION STEEL POSTS SHALL NOT BE USED WITHIN THE CONSTRUCTION CLEAR ZONE RECOVERY AREA.



**SILT FENCE**

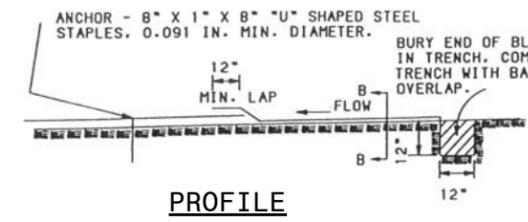
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IDENT. NO.	DESCRIPTION	DATE	BY
REVISION (OR CHANGE NOTICE)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
SILT FENCE			



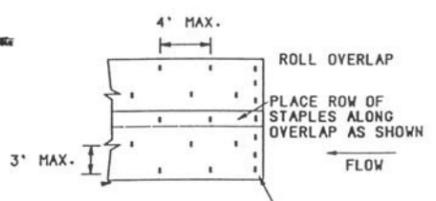
**PLAN VIEW**

**NOTES: CULVERT PROTECTION**

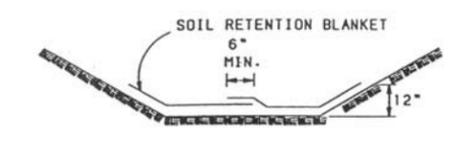
1. WHEN CULVERT PROTECTION IS SPECIFIED, EITHER SOIL RETENTION BLANKETS OR SOIL RETENTION ROCK MAY BE PROVIDED.
2. THE CULVERT PROTECTION WIDTH REQUIRED SHALL BE IN ACCORDANCE WITH THESE DETAILS UNLESS SPECIFIED OTHERWISE.
3. THE SOIL RETENTION BLANKET INSTALLATION SHOWN OUTLINES MINIMUM REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IF THEY ARE MORE STRINGENT.



**PROFILE**



**SOIL RETENTION BLANKET STAPLE PATTERN**



**SECTION B-B**

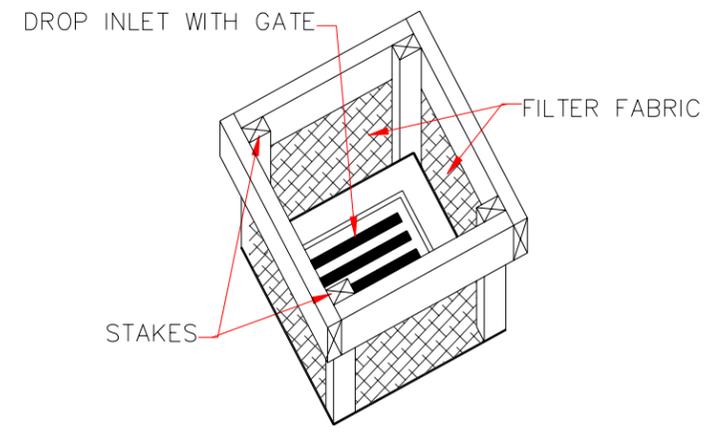
**SOIL RETENTION BLANKET**



**SECTION B-B**

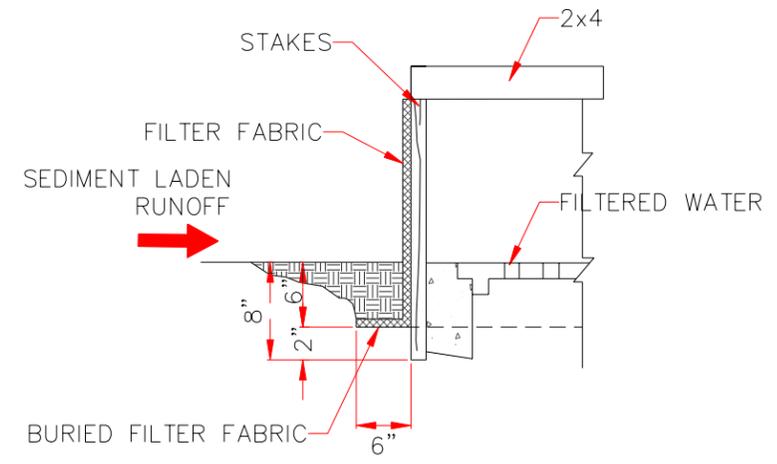
**SOIL RETENTION ROCKS**

**CULVERT PROTECTION**

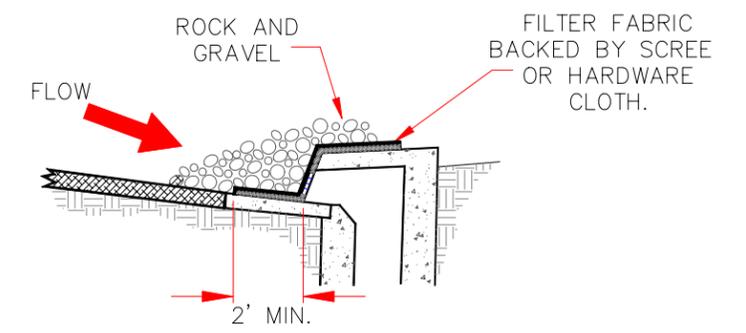


**TYPE I**

**NOTE:** WHEN SPECIFIED, ROCKS OR STRAW BALES CAN BE SUBSTITUTED FOR SILT FENCE.



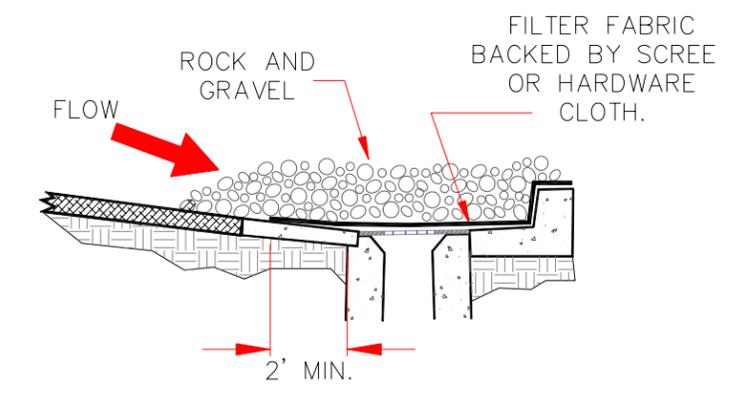
**DROP INLET PROTECTION**



**TYPE I CURB OPENING**

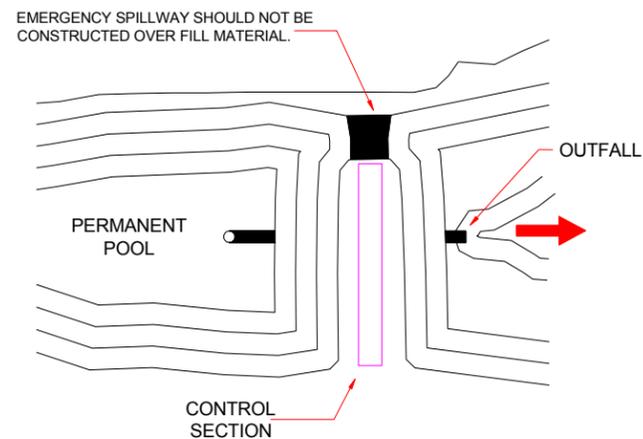
**NOTES: GRAVEL INLET PROTECTION**

1. THIS INSTALLATION IS FOR A TYPE I CURB DROP INLET ONLY. THE TYPE II, III TO "N" INSTALLATION IS SIMILAR.
2. THE SPACING OF THE LONGITUDINAL BRACING SHALL NOT EXCEED 5 FT.

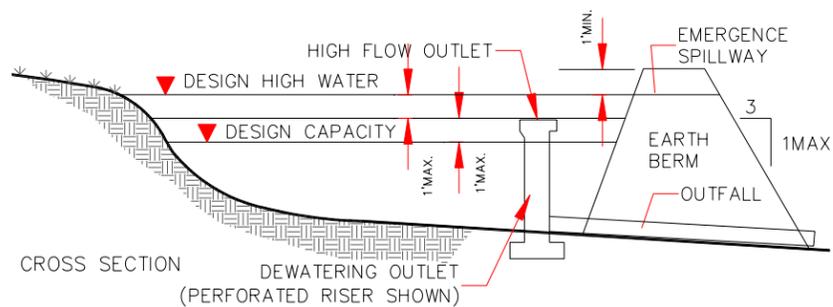


**TYPE II CURB DROP INLET**

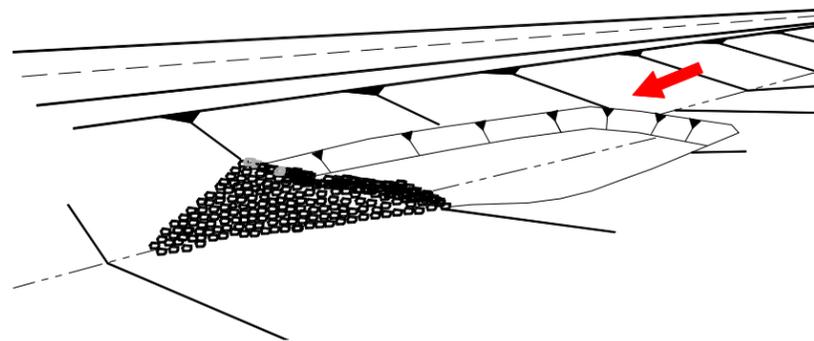
IDENT. NO.	DESCRIPTION	DATE	BY
REVISION (OR CHANGE NOTICE)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
CULVERT & DROP INLET PROTECTION			



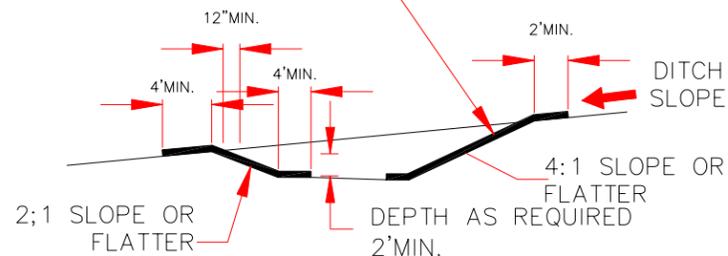
**PLAN VIEW**



**SEDIMENT BASIN**



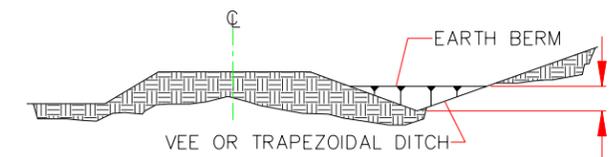
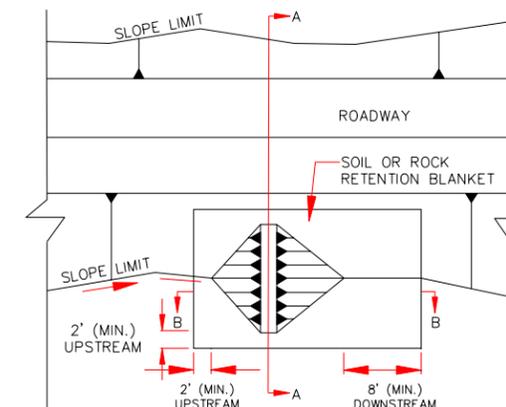
SOIL RETENTION BLANKET OR ROCK PLATING (BLANKET SHOWN)



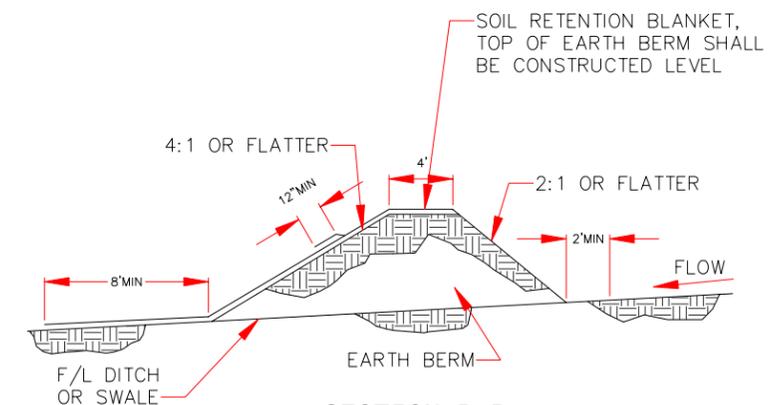
**NOTES: SEDIMENT TRAP**

1. TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED BY EXCAVATION ALONE OR BY EXCAVATION IN COMBINATION WITH AN EMBANKMENT.
2. TEMPORARY SEDIMENT TRAPS ARE OFTEN USED IN CONJUNCTION WITH A DIVERSION DIKE OR SWELL.
3. THE DRAINAGE AREA FOR THE SEDIMENT TRAP SHOULD NOT EXCEED 5 DISTURBED ACRES.
4. THE TRAP MUST BE ACCESSIBLE FOR EASE OF REGULAR MAINTENANCE, WHICH IS CRITICAL TO ITS PROPER FUNCTIONING.
5. SEDIMENT TRAPS ARE TEMPORARY MEASURES AND SHOULD NOT REMAIN IN PLACE LONGER THAN 18 TO 24 MONTHS.
6. THE EMBANKMENT MAY NOT EXCEED 5 FT. IN HEIGHT.
7. THE RECOMMENDED MINIMUM WIDTH AT THE TOP OF THE EMBANKMENT IS BETWEEN 2 FT. AND 5 FT.

**SEDIMENT TRAP**



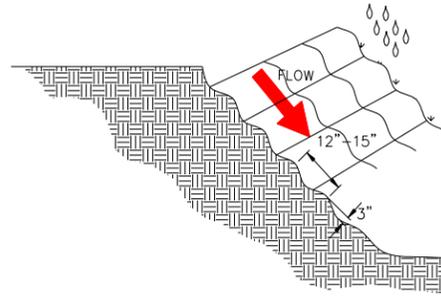
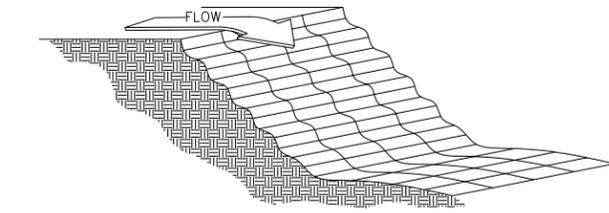
**SECTION A-A**



**SECTION B-B**

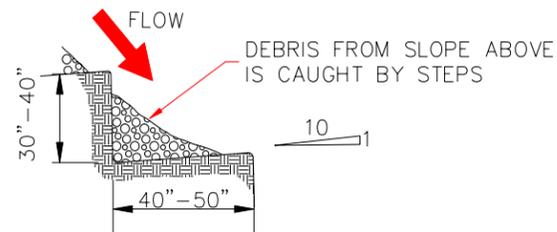
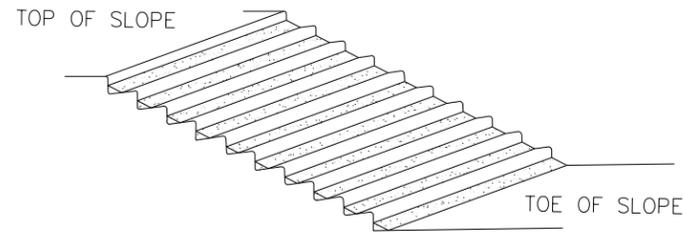
**EARTH DIKE (BERM)**

IDENT. NO.	DESCRIPTION	DATE	BY
REVISION (OR CHANGE NOTICE)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
SEDIMENT BASIN, SEDIMENT TRAP, & EARTH DIKE			



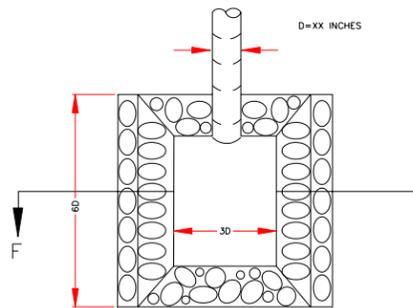
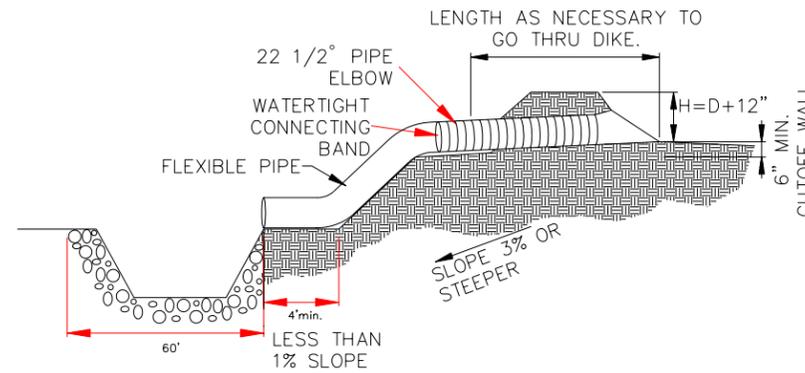
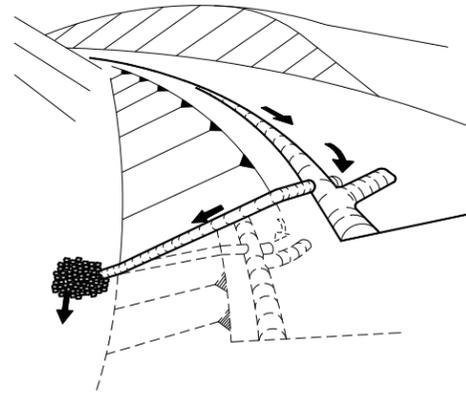
GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME RETENTION OF LIME, FERTILIZER AND SEED.

**GROOVING SLOPES**

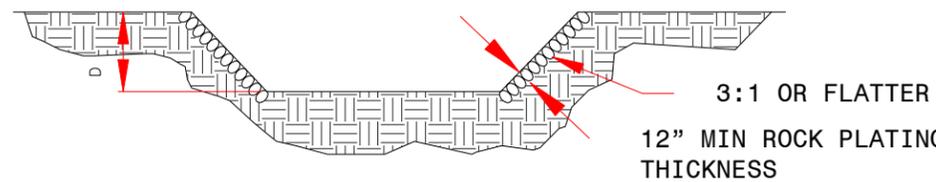


**STAIR-STEPPING CUT SLOPE**

**SURFACE ROUGHENING**



**RIPRAP APRON PLAN**



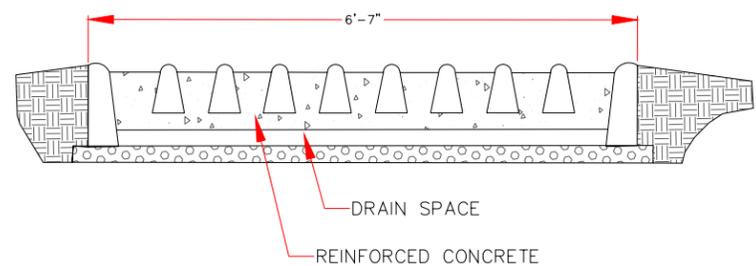
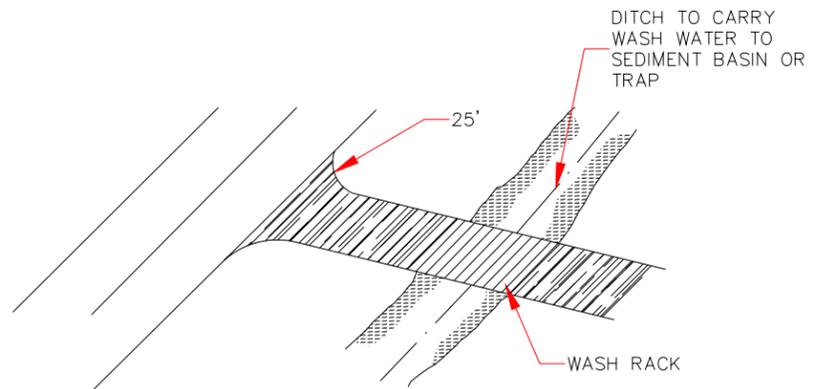
**SECTION F-F**

**SLOPE DRAIN**

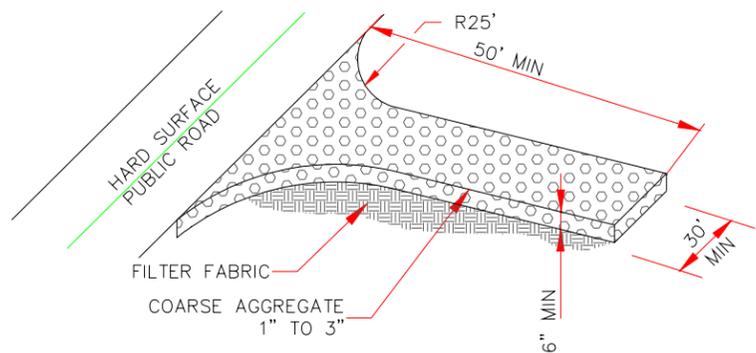
**NOTES: PIPE SLOPE DRAIN**

1. THE FLEXIBLE PIPE SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD-DOWN GROMMETS SPACED AT 10 FT. ON CENTER.
2. THE FLEXIBLE PIPE SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL OR HIGH DENSITY POLYETHYLENE PIPE WITH METAL STRAPPING OR WATERTIGHT CONNECTING COLLARS.
3. THE FLEXIBLE PIPE SHALL BE STAKED AT 10 FT. CENTERS ALONG THE SLOPE USING MINIMUM 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO THE GROUND.
4. RIGID PIPE SHALL BE ANCHORED AT BENDS. ANCHORAGE SHALL CONSIST OF A MINIMUM OF 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO THE GROUND, OR EARTHEN THRUST BLOCK.
5. PAYMENT OF BASIN ITEMS ARE INCIDENTAL TO THE COST OF FLEXIBLE STORM DRAIN PIPE.

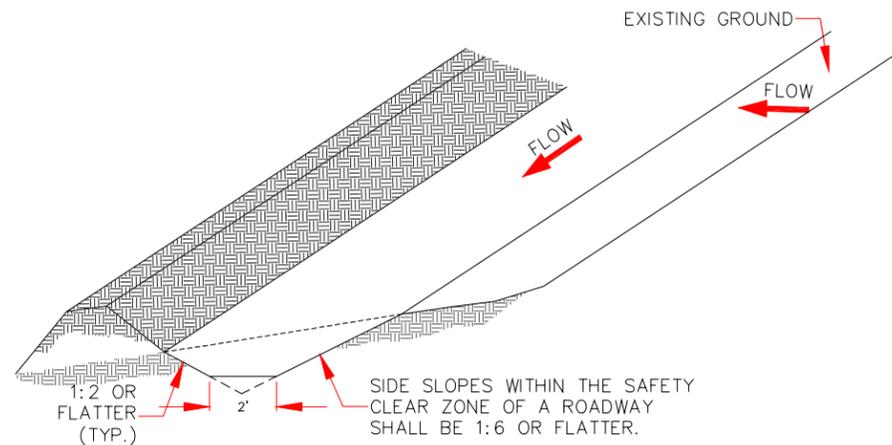
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IDENT. NO.	DESCRIPTION	DATE	BY
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NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
PIPE SLOPE DRAIN & SURFACE ROUGHENING			



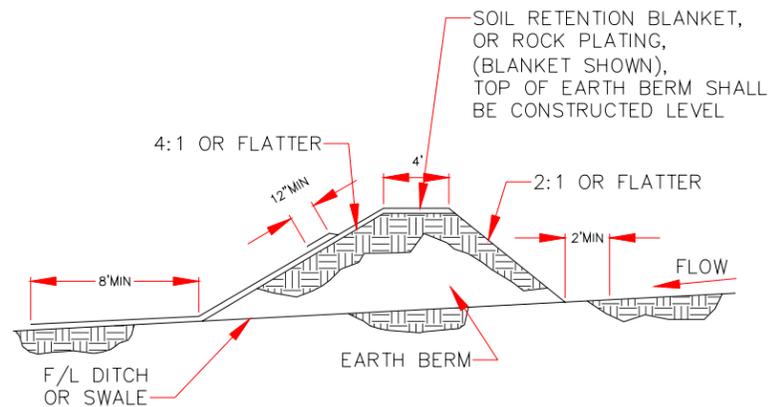
**WASH RACK**



**OFFSITE TRACKING PREVENTION**



**TYPICAL SWALE CONFIGURATION**



**DIVERSION DIKE**

IDENT. NO.	DESCRIPTION	DATE	BY
	REVISION (OR CHANGE NOTICE)		
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
OFFSITE TRACKING PREVENTION & DIVERSION DIKE			