



B=BOTTOM WIDTH  
 D=TOTAL DEPTH  
 Z=SIDE SLOPE

TRAPEZOIDAL CROSS SECTION

CONSTRUCTION DETAILS

DIVERSION NUMBER	REACH		CHANNEL SLOPE(%)	BOTTOM WIDTH(B) FEET	TOTAL DEPTH(D) FEET	SIDE SLOPE(Z)	LENGTH FEET
	FROM	TO					

NOTES AND SPECIFICATIONS:

1. TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE DIVERSION WHEN NEEDED TO FACILITATE REVEGETATION.
2. RIDGE COMPACTION AND ANY PIPE BACKFILL COMPACTION THROUGH THE RIDGE SHALL BE IN ACCORDANCE WITH WI CONSTRUCTION SPECIFICATION 3.
3. MAINTENANCE ITEMS – REPAIR AREAS OF DAMAGED VEGETATION. MAINTAIN THE DIVERSION CHANNEL CAPACITY AND RIDGE HEIGHT.

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 United States Department of Agriculture <b>Natural Resources Conservation Service</b>	<b>TRAPEZOIDAL DIVERSION</b>		Date _____ Designed _____ Drawn _____ Checked _____ Approved _____	File Name <b>WI-403A</b>
	CLIENT: _____ COUNTY: _____			Date <b>07/14</b>
				Sheet of _____

## DESIGN DATA

DIVERSION SOILS<sup>1</sup> \_\_\_\_\_

MAXIMUM PERMISSIBLE VELOCITY = \_\_\_\_\_FPS

DIVERSION NUMBER	REACH		D.A. IN ACRES	DESIGN FREQ.	Q (CFS)	RET <sup>2</sup> (VEL)	RET <sup>2</sup> (CAP)	DESIGN V (FPS)	CHANNEL SLOPE (%)	BOTTOM WIDTH(B) FEET	SIDE SLOPES (Z)	FLOW DEPTH (FT.)	FREE-BOARD (FT.)	SETTLE-MENT <sup>3</sup> (FT.)	TOTAL DEPTH (D) (FT.)
	FROM	TO													

1. UNIFIED SOIL CLASSIFICATION SYSTEM
2. RET (VEL) IS THE RETARDANCE FOR DETERMINING DESIGN VELOCITY (NORMALLY "D").  
RET (CAP) IS THE RETARDANCE FOR DETERMINING THE FLOW DEPTH FOR CAPACITY (NORMALLY "B" OR "C").
3. SETTLEMENT SHALL BE A MINIMUM OF TEN (10) PERCENT OF THE FILL HEIGHT.

## SEEDING AND CONSTRUCTION CHECK

DESIGN DATA					AS-BUILT DATA							
DIVERSION NUMBER	REACH		WIDTH TO VEGETATE (FT.)	AREA (ACRES) (SQ.YDS.)	SEEDING IN (ACRES)	SODDING IN (SQ.YDS.)	CHANNEL SLOPE (%)	BOTTOM WIDTH(B) FEET	SIDE SLOPES (Z)	TOTAL DEPTH(D) (FT.)	LENGTH (FT.)	
	FROM	TO										
TOTALS												TOTAL

THIS PRACTICE MEETS NRCS STANDARDS, SPECIFICATIONS, AND CONSTRUCTION PLANS.

\_\_\_\_\_  
SIGNATURE & TITLE

\_\_\_\_\_  
DATE