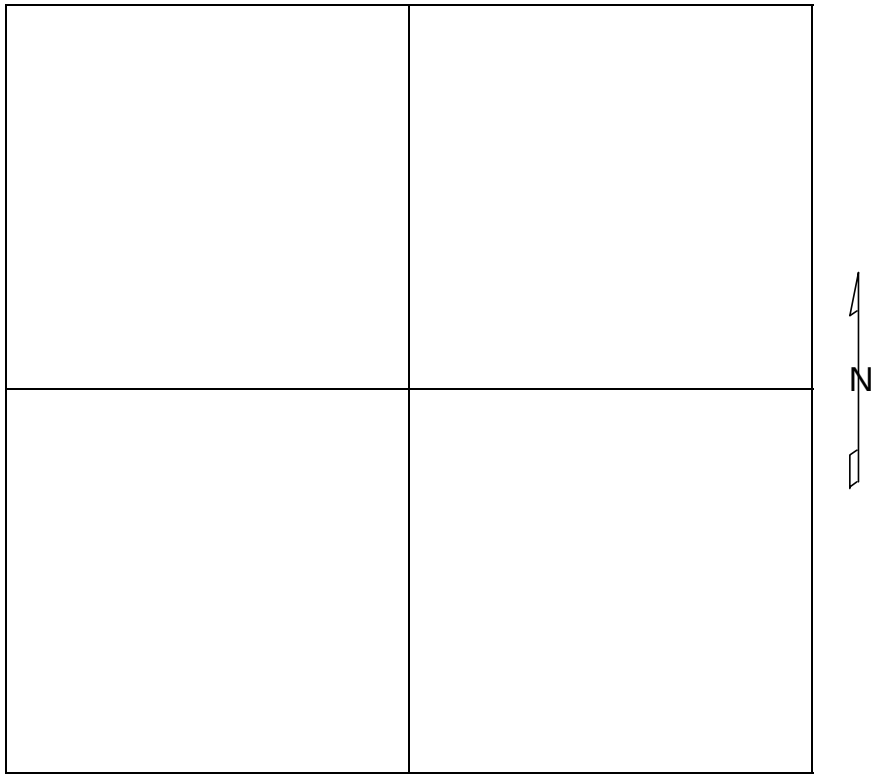
USDA
NRCS

Diversion - 362 (Gradient)

KS-ENG-8
Rev. 5/05

Name _____
Legal Desc. _____
County _____
Ident. No. _____

Before any investigation or construction activity, the excavator is responsible for calling Kansas One-Call at 800-344-7233 (800-DIG-SAFE).



Location Map Scale 1" = _____

Layout by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____

Design

Diversion No. and Reach			
Station	From		
	To		
Drainage Area (acres)			
Weighted Runoff Curve Number, CN			
Discharge, Q (cfs) (10 -year, 24-hour)			
Channel Design Grade (%)			
Channel - farmed or vegetated			
Veg. Retardance or "n" (capacity~stability)			
Design Slopes	Cut Slope	:1	:1
	Front Slope	:1	:1
	Back Slope	:1	:1
Channel Width (feet)			
Hydraulic Flow Depth (feet)			
Flow Area (square feet)			
Velocity (feet/second)			
Top Width of Ridge (feet)			
Freeboard (feet)			
Design Settled Height - with freeboard (feet)			
Minimum Const. Height - with 1.10 factor (feet)			

Layout

Diversion No. and Reach		
Station	Rod	Rod

Name _____ Legal Desc. _____

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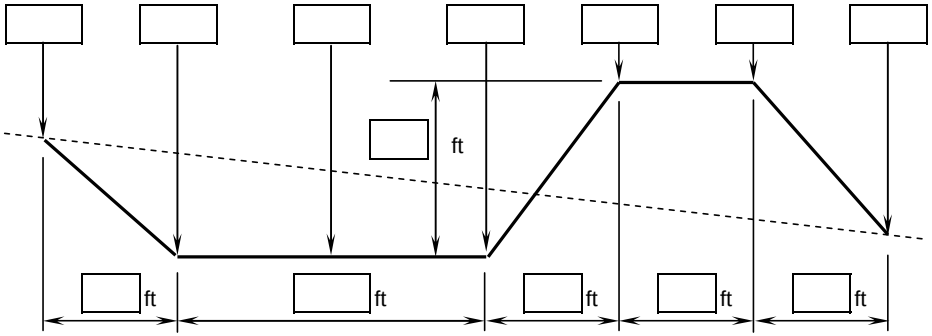
Channel and Ridge Profiles **Checkout**

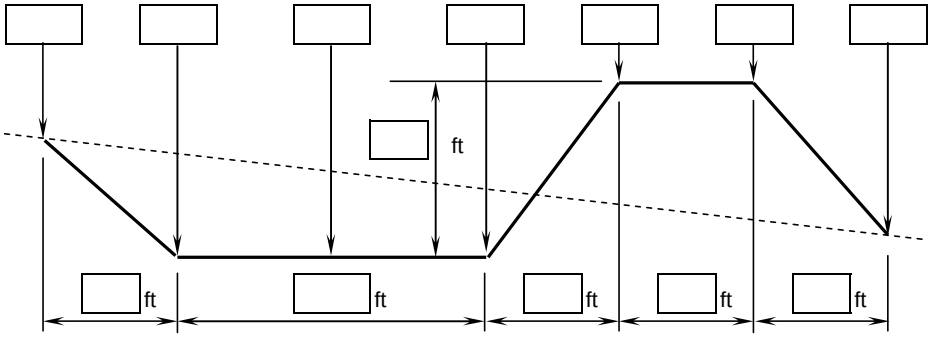
Station	Diversion No. and Reach					Station	Diversion No. and Reach				
	Channel Rod			Ridge Rod	Height (feet)		Channel Rod			Ridge Rod	Height (feet)

Cross Section

Diversion No. and Reach _____ Station _____



Diversion No. and Reach _____ Station _____



Type of Measuring Device _____

Calibration Factor _____ Remarks _____

Div. No. & Reach	Counter Reading	Length (feet)
Total Const. Length		

* Volume = (Length x Area) / 27

Checkout Volume Computations

Diversion No. & Reach	Station	to Station	Length (feet)	Land Slope (%)	Fill	
					Area (cubic feet/foot)	Volume * (cubic yards)
					C/F Ratio _____	Total Fill

Checkout by _____ Date _____ Audited by _____ Date _____