

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) or 811.

Location Map

Scale 1" = _____

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

Design and Layout

Diversion No.			
Drainage Area, DA (acres)			
Hydrologic Soil Group			
Weighted Curve Number, CN			
Rainfall (inches) (10 -year, 24-hour)			
Runoff, R (inches)			
Sediment, S (inches)			
Runoff + Sediment (inches)			
Required Storage Area (cubic feet/foot) ^{1/}			
Land Slope at Basin, LS (%)			
Design Slopes	Cut Slope, CS	:1	:1
	Front Slope, FS	:1	:1
	Back Slope, BS	:1	:1
Channel Width, CW (feet)			
Top Width, TW (feet)			
Block Height, BH (feet)			
Cut Depth, dc (feet)			
Storage Depth, ds (feet) ^{2/}			
Freeboard, fb (feet)			
Design Construction Height, CH (feet) ^{3/}			

^{1/} Required Storage Area = $\frac{DA \times (R + S) \times 3630}{\text{Length}}$

^{2/} ds = dc + BH

^{3/} CH = (ds + fb) x 1.10

^{4/} Volume = (Length x Area) / 27



Estimated Volume Computations

Diversion No.	Length (feet)	Fill	
		Area (cubic feet/foot)	Volume ^{4/} (cubic yards)
	Line		
	Block		
	Line		
	Block		
Cut/Fill (C/F) Ratio _____		Total Fill _____	



