AR-ENG-41a
September 1991

Clear Form | Print Form

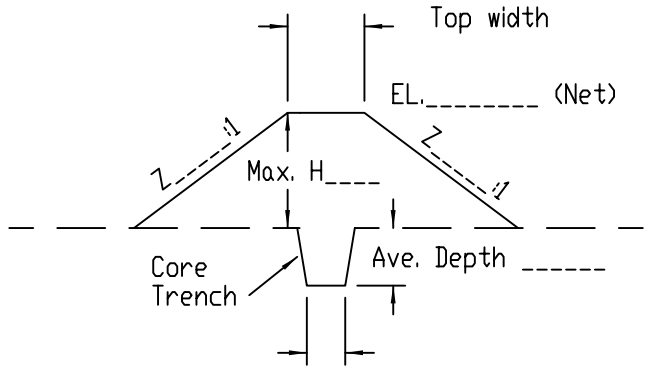
POND DATA SHEET

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

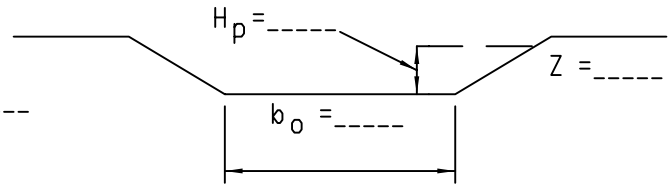
CONSERVATION DISTRICT _____ FIELD OFFICE _____ TECH. _____

CLIENT/BUSINESS _____ ID NO. _____ LOCATION _____ FIELD NO. ____ POND NO. _____

PLAN VIEW Sketch of Dam, Spillway, and Reservoir Referenced to Field Location
(Show BM Location, Sta. 0+00, North Arrow & Structures)

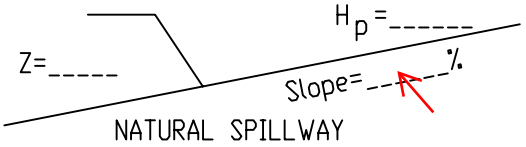


EMBANKMENT MAXIMUM SECTION



EMERGENCY SPILLWAY CONTROL SECTION

E.S. Crest Elev._____
P.S. Crest Elev._____(If Req.)



NATURAL SPILLWAY

Estimating Time of Concentration					
Rainfall Dist. Type_____(I,IA,II,III)					
Drainage Area_____Ac					
WATERSHED DATA:					
Land Use	Description	Hy.Soil Gr.	Curve No.	Acres	Product(CN)(Ac.)
Total	XXXX	XXXX	XXX		

CURVE NUMBER: $CN = \frac{\Sigma(CN)(Ac.)}{\text{Total Acres}}$ = _____ =_____ Use CN=_____

Watershed Slope.. Y=_____% Flow Length.. ℓ =_____ft.

T_c using ℓ, Y, CN, and Fig. 2-27...=_____ hrs

Estimating Peak Discharge-Storm		#1(___)	#2(___)	#3(___)
Rainfall, P (24hr.)	in.			
Initial Abstraction, I	in.			
I_a/P ratio				
Unit Peak Discharge q_u	cfs/ac/in			
Runoff, Q(exhibit 2-2)	in.			
Peak Discharge q_p ($q_p=q_uAQ$)	cfs			

Erosion Potential: Resistant_____ Easy_____
Vegetation Type_____ Permissable Vel._____fps
Veg. Stand: Good_____ Fair_____ Bare_____
Veg. Length: Min. _____ins. Max. _____ins.
Veg. Retardance: Stability_____ Capacity_____
q =_____cfs/ft. b_o= q_p/q =_____ft. (Stability)
Emergency Spwy. Control Section Ln._____ft.
H_p = _____ft.(Capacity) Freeboard (FB)=_____ft.

Pipe Req. (Y,N) _____(Attached Design)
Type: Principal Spwy. _____
Trickle Tube _____
Drain Pipe _____

CONSTRUCTION RECOMMENDATIONS

Foundation _____

Embankment _____

Spillway _____

_____ _____
Submitted By Date

_____ _____
Approved By Date

CAD FILE = AR-041A.2D

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LAYOUT

B.M. Elev._____
R.R. on B.M._____
H.I._____
Dam Elev._____
Dam Gr.Rd._____

Spwy.Elev._____
Spwy.Gr.Rod_____
F.B. + Hp_____

Top Width_____

Survey Notes and Computations

Party:_____ Date_____
B.M. Description_____

Sta.	Upstream Slope____:1	℄	Downstream Slope____:1	Top Soil Strip	Ht. at ℄ (Ft.)	___% Shrink	E.A. Sq. Ft. or Cu. Yd. /Ft.	Sum of Adj. Sec-tions	1/2 Len-gth Seq. (ft)	Product

CHECK

B.M. Elev._____
R.R. on B.M._____
H.I._____
Dam Elev._____
Dam Gr.Rd._____
Res. Depth _____

Party:_____ Date_____

Spwy.Elev._____
Spwy.Gr.Rod_____

Sta.	Upstream	℄	Downstream	℄ GR. (CK GR-Shr)	As Built (℄ GR-℄ RR)

SOILS INVESTIGATION REPORT

Boring Location	Depth	USDA or Unified Report of Findings

Based on soil is the pond site satisfactory? yes_____ no_____

Surface Area_____Ac. Storage_____Ac. Ft.

Spwy. Profile

_____ _____ _____ _____ _____ _____ _____ _____

Embankment (C.Y.)

Core Comp. _____

_____

Core (C.Y.)

Total (C.Y.)

Comp. Date_____

Checked by _____

_____ :1 Steepest Constr. Slope:____ :1

Final Spwy. Width _____ Spwy. Crest Elev._____

Final Spwy. Profile

_____ _____ _____ _____ _____ _____ _____

Exceptions _____

This practice meets specifications.

Signed_____ Date _____

CAD FILE = AR--041A.2D