POND DESIGN

Project	aaa
Description	This project is a dam located on John Farmer's farm on non-name creek near Interstate-70
State	aaa
County	aaa
Landowner	aaa
Township	aaa
Range	aaa
Section	aaa
Tract	aaa
Field	aaa
Designed by	aaa
Date designed	aaa
Date printed	aaa
Approved by	aaa
Date	aaa
filename	aaa

The use of this software is intended for low-hazard dams conforming to Natural Resource Conservation Service, Pond (378) Conservation Practice Standard.
Failure of the dam will not result in loss of life; damage to homes, commericial or industrial buildings, main highways, or railroads; or in interruption of the use or service public utilities.
NRCS 378 Pond Conservation Practice Standard limits the effective height to less than 35 feet and a height x storage value of less than 3,000 acre-feet-ft.

JOB APPROVAL CLASS

Hazard Class	Low	
Effective Height	Feet	
Effective Storage	Ac-Ft	
Overall Height	Feet	
Total Storage	Ac-Ft	
Storage x Effective Height	Ac-Ft Ft	
Contributing Drainage Area	Acres	
Contributing Drainage Area	Square Miles	
Pipe Conduit Capacity	CFS	

Open Channel Spillway Design Flow	CFS	
Peak Inflow Aux Spillway Design Storm	CFS	
Conduit - Inside Diameter	Inches	
Conduit Material		
Inlet Type		
Job Approval Class		

ELEVATION-STORAGE INPUT DATA

Scale: 1 in. = 100.00 ft.

Elev (ft)	Pool Area		Int. Storage (ac. ft.)	Accum. Storage (ac. ft.)
	sq. in.	acres		
0	0	0	0	0

STORAGE VOLUMES

	Elevation (ft)	Area (acres)	Storage (ac. ft.)
Inlet (princ. spillway)	123.30		
Aux. spillway			
Max. water			
Settled top of fill			
Sediment - above inlet			
Sediment - below inlet			
Inlet to aux.			
Aux. to max. water			

RCN Determination

Runoff Curve Number Determination		Acres & (Curve Numbers) for Hydrologic Soil Group			
Cover Description		A	B	C	D

Accumulated: 0 Acres

Weighted Curve Number: 0

HYDROLOGIC MODEL

Rainfall distr. type	:	0			
Drainage area, acres	:	0	Watershed slope, %	:	0
Runoff curve number	:	0	Flow length, ft. -	:	0

Time of concentration, hrs. : 0	
(min. : 0)	

	Spillway	
	Principal	Auxiliary
Design frequency, yrs. ---- :	1	1
24 hr. rainfall, in. ---------- :	1	1
Peak inflow, CFS ---------- :	1	1
Peak outflow, CFS -------- :	1	1

* - User Defined Value

PRINCIPAL SPILLWAY TRIALS

Inlet Type Inlet Elevation

	TRIAL 1	TRIAL 2	TRIAL 3
Conduit : Type			
Diameter, in			
Height, in.			
Width, in,			
Mannings, n.			
Inlet ext., ft.			
Length ft.			
Entrance Coefficient, Ke			
RISER : Type			
Diameter, in			
Length, in			
Width, in,			
Weir length, in.			
Crest radius, in.			
Invert elevation			
Auxiliary elevation			
STORAGE (ac. ft.)			
TEMPORARY (PS-AS)			
Total at Auxiliary			
Effective height, ft.			
Height x storage			

Drawdown time, days-hrs.			
Trial used			

Discharge determination

Auxiliary elev.	: 1	Retardance	: 1
Bottom width, ft.	: 1	Level sect. length, ft.	: 1
Flow depth, ft.	: 1	Side slope ratio, n:1	: 1
EXIT CHANNEL	:		
Max. vel., fps	: 1	Retardance	: 1

Flow, Cfs	: 1	Exit slope, % --- Min:	: 1
		Max.	: 1
Settled fill elev:	: 1	Drawdown time, days-hrs	: 1
Flow, Cfs	: 1	(Aux. spillway flow at top of the dam)	: 1
Channel elev. (downstream toe):	: 1	Overall height, ft.	: 1

GROUND DATA

STA HI %SLOPE (FS OR ELEV)/ DIST

PRACTICE:

1 1

EMBANKMENT CROSS SECTION DATA

% settlement

Template #
Station
Settled top of fill elev.
Top width, ft.
Upstream berm elev.
berm width, ft.
Template #
Downstream berm elev.
berm width, ft.
Front slope, n:1

Back slope, n:1
Stripping depth, ft.
Core bottom width, ft.
depth, ft.
Side slopes, n:1
Offset, ft
BL-CL Offset, ft.