



# APPLICATION/NOTIFICATION TO CONSTRUCT OR MODIFY A DAM, DIKE, RING DIKE OR OTHER WATER RESOURCE FACILITY

OFFICE OF THE STATE ENGINEER  
REGULATORY DIVISION  
SFN 51695 (9/2020)

No.
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(OSE USE ONLY)

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Bismarck, ND 58505-0850

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OFFICE OF THE STATE ENGINEER USE ONLY
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I, the undersigned, do hereby submit the following information to the Office of the State Engineer for determination and use as a filing of information required under North Dakota Century Code §61-04-02 or as an application to construct or modify a facility under North Dakota Century Code §61-16.1-38.

### A. General Information

*This Application/Notification Must Include A Map From An Actual Survey, Aerial Photo Or Topographic Map. The Size Of The Map Shall Be 8½ By 11 Inches. The Map Shall Have A North Arrow And Approximate Scale. If, In The Opinion Of The State Engineer, The Map Does Not Contain Information To Properly Evaluate The Project, It Will Be Returned.*

The Proposed Facility Is A

<input type="checkbox"/> Dam (Complete Sections A, C & F)	<input type="checkbox"/> Pond, Lagoon, or Dugout (Complete Sections A, B & F)
<input type="checkbox"/> Dike (Complete Sections A, D & F)	<input type="checkbox"/> Diversion Ditch (Complete Sections A, B & F)
<input type="checkbox"/> Ring Dike (Complete Sections A, D & F)	<input type="checkbox"/> Other (Complete Sections A, B & F)
<input type="checkbox"/> Wetland Restoration (Complete Sections A, C, E & F)	

Application/Notification For Modification Of An Existing Structure  Yes  No

If So, What Year Was Existing Structure Constructed	By Whom?
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Water Resource District Where Project Located

Property Description	¼	¼	Section	Township	Range
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(Optional) Latitude	Longitude
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Waterway On Which Project Will Be Located

A Tributary To

Will Project, Including Any Area Affected As A Result Of The Project, Be Located Entirely On Land Owned By The Applicant?  
 Yes  No

*If Any Portion Of The Project Will Be Constructed On Land Not Owned In Fee Title By The Applicant, Written Authorization To Construct The Project Must Be Obtained From The Landowner Of Record And A Copy Of The Authorization Provided To This Office. If The Project Will Affect Land Not Owned By The Applicant, Evidence Of A Property Right Must Be Obtained By The Applicant And A Copy Of The Property Right Provided To This Office. If Any Portion Of The Project Will Be Constructed Within The Right-Of-Way Of A Section Line, Roadway, Or Railroad, Or If The Project Will Impound Water Within The Right-Of-Way Of A Section Line, Roadway, Or Railroad, Written Authorization To Do So Must Be Obtained From The Appropriate Authority And A Copy Provided To This Office.*

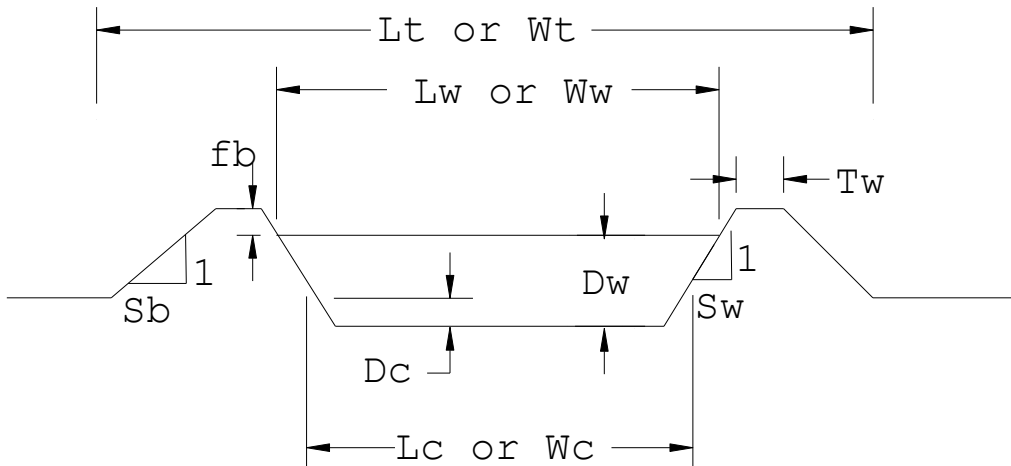
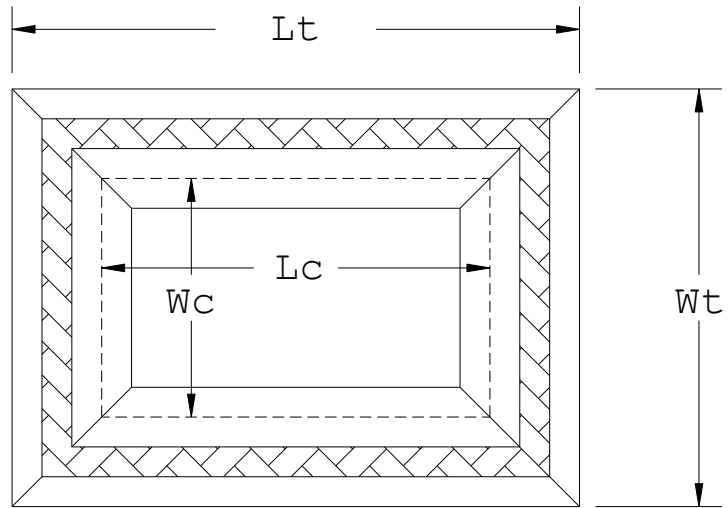
Project Sponsor (Water Resource District/City/Us Fish & Wildlife Service, Etc.) If Applicable

Contractor, If Known

Anticipated Construction Start Date	Completion Date
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Party Responsible For Operation And Maintenance Of This Project

B. Pond, Lagoon, Dugout, Diversion Ditch, Or Other Water Resource Facility		
Design Data		
A. Pond, Lagoon, Or Dugout (Complete Below And Diagram Next Page For Each Pond Or Cell, Photocopy If Necessary)		
Surface/Area Top Of Structure (Acres)	Surface/Area Service Level (Acres)	
Storage/Top Of Structure (Acre-Feet)	Storage/Service Level (Acre-Feet)	
Maximum Depth Of Water (Feet)	Maximum Embankment Height (Feet)	
B. Diversion Ditch		
Length (feet)	Bottom Width (feet)	Side Slopes (feet)
Maximum Cut (feet)	Gradient (foot/foot)	
Description Of Project, If Not A Pond, Lagoon, Dugout, Or Diversion Ditch		



DESCRIPTION	ABBREVIATION	DIMENSION (FEET)
Total Length Of Pond (Includes Banks)	Lt	
Total Width Of Pond (Includes Banks)	Wt	
Length Of Water Surface At Full Service Level	Lw	
Width Of Water Surface At Full Service Level	Ww	
Length Of Cut Into The Soil Surface	Lc	
Width Of Cut Into The Soil Surface	Wc	
Depth Of Cut Into Soil Surface	Dc	
Depth Of Water In The Pond At The Full Service Level	Dw	
Freeboard (The Distance Between The Full Service Level And The Top Of The Structure That Is Used To Manage Wave Action, Usually 2-3 Feet)	Fb	
Top Width Of Embankment Surrounding The Pond	Tw	
Outside Bank Sideslope Ratio (Usually 4:1, Which Is 4 Horizontal Feet For Every 1 Foot Of Rise)	Sb	
Inside Bank Sideslope Ratio (Will Vary Between 4:1 And 6:1, Depending On The Soil Type)	Sw	

**C. Dams**

Drainage Area Above Dam

Square Miles	Acres
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Purpose

Geometric Description Of Dam

Maximum Height (H) (feet)	<p>The diagram illustrates a dam cross-section. On the left is the upstream slope labeled S1 with a 1:1 slope indicator. The top of the dam is labeled T. A horizontal line across the top is labeled EMERGENCY SPILLWAY. The height of the dam is labeled H. On the right is the downstream slope labeled S2 with a 1:1 slope indicator. The dam is shown on a foundation with a small structure at the base of the upstream slope.</p>
Elevation (T) (feet msl)	
Top Width (feet)	
Side Slopes/ Upstream (S1) (:1)	
Side Slopes/ Downstream (S2) (:1)	

Type Of Embankment Protection

Emergency Spillway	Type
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If Earthen	Width (feet)	Side Slopes (:1)	Level Section Length (feet)
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Dimensions If Other Than Earthen

Principal Spillway			
Outlet Pipe	Type	Diameter	Length (feet)
Riser	Type	Diameter	
Control Gate	Type	Dimensions	
Drawdown Pipe	Type	Diameter	

Distance To Nearest Downstream Occupied Dwelling(S)

	ELEVATION (feet) Indicate Datum <input type="checkbox"/> Local <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD88	RESERVOIR SURFACE AREA (acres)	RESERVOIR CAPACITY (acre-feet)
	Top Of Dam		
Emergency Spillway			
Principal Spillway			
Drawdown Pipe			
Streambed At Dam			

**D. Dike**

Is Application/Notification For Construction Of A Ring Dike  Yes  No

If So, Will Ring Dike Tie Into Existing  Dike  Roadway  High Ground  Other

Purpose

Area Of Land To Be Protected By Dike (acres)

Description Of Dike	
Dike Length (feet)	
Dike Design	
Top Width (T) (feet)	
Side Slopes/ Interior (S1) (:1)	Side Slopes/ Exterior (S2) (:1)
Maximum Height (H) (feet)	Maximum Elevation (feet msl)
Minimum Height (H) (feet)	Minimum Elevation (feet msl)

Embankment Erosion Protection

Will Dike Flood Or Adversely Affect Adjacent, Upstream Or Downstream Land  Yes  No

If Yes, Attach Flowage Easements. Easements Must Include A Description Of Provisions, And Names And Signatures Of Grantors.

<b>E. Wetland Restoration</b>			
The Proposed Wetlands Are <input type="checkbox"/> Temporary <input type="checkbox"/> Permanent			
Drainage Area Above Dam (square miles)	Or (acres)		
Is Project Mitigation For Another Project <input type="checkbox"/> Yes <input type="checkbox"/> No			
If Yes, Please Describe			
Describe The Proposed Operation Plan For The Wetland			
	OVERFLOW ELEVATION (feet) Indicate Datum <input type="checkbox"/> Local <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD88	CAPACITY (acres)	SURFACE AREA (acre-feet)
Existing			
Natural			
Proposed			
Top Of Structure			
<b>F. Additional Information, Affidavit Of Design Engineer, And Signature</b>			
Additional Information And Comments			
<p>A complete set of plans and specifications prepared by a professional engineer registered in the State of North Dakota must be submitted with and made part of this Application/Notification if the proposed structure will be capable of retaining, obstructing, or diverting more than 50 acre-feet of water, or if the structure is a medium or high hazard dam, as determined by the State Engineer, capable of retaining more than 25 acre-feet of water. Low hazard dams, as determined by the State Engineer, less than 10 feet in height are exempt from the requirement for professional engineering services. If plans and specifications are required, the following affidavit must be completed.</p> <p>I, _____ (name), _____ (PE license number), a Professional Engineer registered in the State of North Dakota, designed and/or personally supervised the design of the project as described in this application and on any attached sheets, and construction will be inspected in accordance with North Dakota Administrative Code §89-08-03-01.      Date: _____</p>			
The filing of this Application/Notification in no way relieves the applicant or landowner from any responsibility or liability resulting from the construction, operation or failure of the project.			
Land Owner (print)			
Address	City	State	ZIP Code
Telephone Number			
Signature			Date
Sponsoring Agency			
Address	City	State	ZIP Code
Telephone Number			
Signature			Date