

Appendix A – Reproducible Forms

<u>Form</u>	<u>Subject</u>
LD-33	County Engineer Approval Form
LD-34	Storm Sewer Computation Sheet
LD-35	Ohio Drainage Design Criteria Form
LD-40	Gutter Spread and Inlet Capacity Computation Sheet
LD-41	Ditch Computation Sheet
LD-42	Culvert Computation Sheet
LD-50	No-Rise Certification
LD-51	Floodplain Letter of Compliance Template
LD-52	Floodplain Letter of Notification Template
LD-53	Letter of Notification of SFHA Exemption

Appendix A – Reproducible Forms

Ohio Department of Transportation County Engineer Approval Form



Date Submitted to District: _____

Date Submitted to County Engineer: _____

County - Route - Section: _____

PID: _____

Station	Size & Type	Culvert Invert Elevation		Existing Channel Elevation		Skew
		Inlet	Outlet	Inlet	Outlet	

I have reviewed and hereby approve the drainage proposed for the highway designated hereon in accordance with the provisions of the Ohio Revised Code, Section 6131.631.

 County

 County Engineer's Signature

 Date

Comments:

PROJECT INFORMATION:

COUNTY	ROUTE	SECTION	PID

PIPE POLICY:

The Pipe Policy of _____ will be used for this project.

(Attach a copy of the written pipe policy or furnish a link to the policy. In lieu of a written policy, documentation of locally funded construction practices may be provided)

POST CONSTRUCTION BMP POLICY:

The Post Construction BMP Policy of _____ will be used for this project.

If a policy other than ODOT's is being used, the following BMP's are permitted:

DRAINAGE WATERSHED(S):

PROJECT SPECIFIC INFORMATION AFFECTING DRAINAGE:

PROJECT: _____ DESIGNER: _____
 STATION: _____ DATE: _____

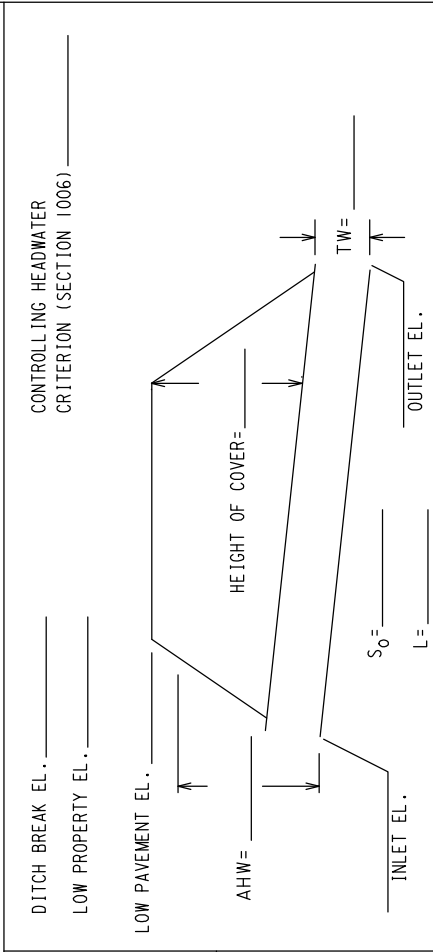
CHANNEL INFORMATION

CHANNEL SLOPE _____
 ROUGHNESS COEFFICIENT _____

HYDROLOGIC AND TAILWATER INFORMATION

$Q_1 =$ _____ $TW_1 =$ _____
 $Q_2 =$ _____ $TW_2 =$ _____

$Q_1 =$ DESIGN DISCHARGE ($Q_{10}, Q_{25},$ or Q_{50})
 $Q_2 =$ CHECK DISCHARGE (Q_{50} OR Q_{100})



CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	HEADWATER COMPUTATION							OUTLET VELOCITY	COMMENTS:					
		INLET CONTROL		OUTLET CONTROL			HW = H + h_0 - LS_0	CONTROLLING HW (IC OR OC)							
		$\frac{HW}{D}$	HW	k	H	d_c					$\frac{d_c + D}{2}$	TW	h_0	LS_0	HW

STREAM pH _____ IS THE SITE ABRASIVE? _____ DESIGN SERVICE LIFE (SECTION 1002.3.1) _____

SUMMARY & RECOMMENDATIONS:

No-Rise Certification

This is to certify that I am a qualified licensed professional engineer in the State of Ohio. It is to further certify that the attached analysis supports the fact that the proposed Roadway project:

_____ in the floodway will not increase the
(Name of Project)

Base Flood Elevation (100-year flood), floodway elevation, or floodway widths on

_____ at published sections in the Flood Insurance
(Name of Stream)

Study for _____, dated _____
(Name of Community)

and will not increase the Base Flood Elevations (100-year flood), floodway elevations, or floodway widths at unpublished cross-sections in the vicinity of the proposed roadway project.

Engineer's Name: _____

Signature: _____ **Date:** _____

Phone Number: _____ **E-MAIL:** _____

Agency/Firm: _____

Address: _____

City: _____ **State:** _____ **Zip Code:** _____

ENGINEERS SEAL:

Company Letter Head or ODOT Letter Head

Date

Name of Floodplain Coordinator
Title
County or Municipality Name
Address Line 1
Address Line 2

Re: County-Route-Section (PID)
Letter of Compliance

Dear Name of Floodplain Coordinator:

Enclosed please find the floodplain analysis for Ohio Department of Transportation project County-Route-Section (PID). The subject roadway project encroaches upon a Special Flood Hazard Area Zone A or AE within your community at the location identified in the attached report. The hydraulic calculations and No-Rise Certification Form (if Zone AE) provide the necessary documentation of compliance to all federal, state, and local floodplain standards as required.

If you need additional information please contact contact information as needed.

Respectfully,

Name of Registered Engineer, P.E.
Title

Company Letter Head or ODOT Letter Head

Date

Name of Floodplain Coordinator
Title
County or Municipality Name
Address Line 1
Address Line 2

Re: County-Route-Section (PID)
Letter of Notification

Dear Name of Floodplain Coordinator:

The Ohio Department of Transportation project County-Route-Section (PID) encroaches upon a Special Flood Hazard Area Zone A or AE within your community.

The proposed project list the intent and work.

Please provide your community's flood zone regulations if they differ from FEMA requirements and forward any questions you may have about the project. Future correspondence will include hydraulic calculations and required documentation for compliance. We will move forward with this project if no concerns are brought to our attention.

If you need additional information please contact contact information as needed.

Respectfully,

Name of Registered Engineer, P.E.
Title

Company Letter Head or ODOT Letter Head

Date

Name of Floodplain Coordinator

Title

County or Municipality Name

Address Line 1

Address Line 2

Re: County-Route-Section (PID)

Letter of Notification of SFHA Exemption

Dear Name of Floodplain Coordinator:

The Ohio Department of Transportation project County-Route-Section (PID) is located within a Special Flood Hazard Area Zone A or AE in your community.

The proposed project list the intent and work.

As a courtesy, we are informing you of this project. The above described work is considered maintenance that does not change the alignment, grade, or hydraulic capacity of the existing structure. Because of this, the project is exempt from the normal permit process required for work encroaching on a SFHA. No further correspondence will be forthcoming.

If you need additional information please contact contact information as needed.

Respectfully,

Name of Registered Engineer, P.E.

Title