Riverine Bridge-Sized Culvert (≥ 20 ft)

Memorandum to:

Submittal Date: _____

Supersedes Submittal Date: _____

RPG Road Design Engineer: _____

RPG Structural Design Engineer: _____

RPG Geotechnical Design Engineer: _____

From: RPG Hydraulic Design Engineer: _____

Subject: Hydrology Data for Culvert over: _____

County: _____ **Road/Route:** _____ **Project ID:** _____

Structure No.: _____ **Asset ID:** _____

Culvert Information

Box Dimension: Span: _____ ft. Rise: _____ ft.

Extension: Right: _____ ft. Left: _____ ft.

Estimated Length: _____ ft. Diameter: _____

No. Barrels: _____ Material type: _____

Skew Angle: _____ ° Centerline Station: _____

Inlet Invert Elev.: _____ ft. Outlet Invert Elev.: _____ ft.

Riprap Required: _____ To Elevation: _____ ft.

Comments: _____

Required Hydrology Information for Plans

HYDROLOGY DATA:

D.A. = _____ sq. mi.

Design Flood: _____

Q $_{AEP-\_\%}$ = _____ cfs

Vel. $_{AEP-\_\%}$ = _____ ft/sec

Headwater Elev. $_{AEP-\_\%}$ = _____ ft.

1% AEP (100-Year)

Q $_{AEP-1\%}$ = _____ cfs

Vel. $_{AEP-1\%}$ = _____ ft/sec

Headwater Elev. $_{AEP-1\%}$ = _____ ft.

Historical Highwater Elev. = _____

BACKWATER UPSTREAM OF THE BRIDGE-SIZED CULVERT

HW Elev. = _____ including _____ ft. Backwater

1% AEP (100-Year) HW Elev. = _____ including _____ ft. Backwater

STRUCTURE OVERTOPPING FLOOD

0.2% AEP (500-Year) flow = _____ cfs Overtopping flow: _____

Direction of Downstream Flow on Plans: _____

ecc: Hydraulic Engineer in HDSO: _____

Date Modified: 1/8/2026