

**Tidal Bridge-Sized Culvert (≥ 20 ft)**

<b>Memorandum to:</b>	<b>Submittal Date:</b> _____	
<b>RPG Road Design Engineer:</b> _____	<b>Supersedes Submittal Date:</b> _____	
<b>RPG Structural Design Engineer:</b> _____		
<b>RPG Geotechnical Design Engineer:</b> _____		
<b>From:</b> _____	<b>RPG Hydraulic Design Engineer:</b> _____	
<b>Subject:</b> _____	<b>Hydrology Data for Culvert over:</b> _____	
<b>County:</b> _____	<b>Road/Route:</b> _____	<b>Project ID:</b> _____
<b>Structure No.:</b> _____	<b>Asset ID:</b> _____	
<b>Culvert Information</b>		
<b>Box Dimension:</b> _____	<b>Span:</b> _____ ft.	<b>Rise:</b> _____ ft.
<b>Extension:</b> _____	<b>Right:</b> _____ ft.	<b>Left:</b> _____ ft.
<b>Estimated Length:</b> _____ ft.	<b>Diameter:</b> _____	
<b>No. Barrels:</b> _____	<b>Material type:</b> _____	
<b>Skew Angle:</b> _____ °	<b>Centerline Station:</b> _____	
<b>Inlet Invert Elev.:</b> _____ ft.	<b>Outlet Invert Elev.:</b> _____ ft.	
<b>Riprap Required:</b> _____	<b>To Elevation:</b> _____ ft.	
<b>Comments:</b> _____ _____ _____		
<b>Required Hydrology Information for Plans</b>		
<b><u>HYDROLOGY DATA:</u></b>		
<b>Mean Higher High Water Elev.</b> = _____ ft.		
<b>Mean Lower Low Water Elev.</b> = _____ ft.		
<b>Tidal Surge Height</b> <sub>AEP-10%</sub> = _____ ft.		
<b>Stillwater Height</b> <sub>AEP-1%</sub> = _____ ft.	<b>Max. Wave Height</b> <sub>1%</sub> = _____ ft	
<b>Stillwater Height</b> <sub>AEP-0.2%</sub> = _____ ft.	<b>Max. Wave Crest El.</b> <sub>1%</sub> = _____ ft	
<b>Headwater Elev.</b> = _____ ft.	<b>Wave Runup Elev.</b> <sub>1%</sub> = _____ ft	
<b>Headwater Elev.</b> <sub>AEP-1%</sub> = _____ ft.		
<b>Vel.</b> <sub>AEP-1%</sub> = _____ ft/sec		
<b>Vel.</b> <sub>AEP-0.2%</sub> = _____ ft/sec		
<b>Historical Highwater Elev.</b> = _____		
<b><u>BACKWATER UPSTREAM OF THE BRIDGE-SIZED CULVERT</u></b>		
<b>HW Elev.</b> = _____ including _____ ft. Backwater		
<b>1% AEP (100-Year) HW Elev.</b> = _____ including _____ ft. Backwater		
<b><u>STRUCTURE OVERTOPPING FLOOD</u></b>		
<b>0.2% AEP (500-Year) flow</b> = _____ cfs	<b>Overtopping flow:</b> _____	
<b>Direction of Downstream Flow on Plans:</b> _____		
<b>Hydraulic Engineer in HDSO:</b> _____		