MEMORANDUM TO:		Submittal Date:		
	Super	sedes Submittal Date:		
RPG ROAD DESIGN TEAM LEADER:				
RPG STRUCTURAL ENGINEER:			_	
From: Hydraulic Design Squad	l / Engineer			
Subject: Hydrology Data for Brid				
County:		Rd/Rte:		
Structure No.		Const. Pin:		
Culvert Dimensions: Span:	ft.	Rise:	ft.	
	ft.	Left:		
Estimated Length:	_ ft.			
No. of Barrels:	Materia	l Туре:		
Centerline Station:	Skew	Angle:	0	
Inlet Invert Elev:	ft. Outlet Inver	t Elev.:	ft.	
Riprap Required (In Addition to Typica	l):	Yes D No D		
Comments:				
Historic High Water Information: (Show highwater on plans)				
Elevation of High Water:	ft. Dis	charge: (if available)	ft.	
Date of occurrence: /	/	Source of data:		

1.5.5 Hydrology Data Sheet for Bridge-Sized Culverts (≥ 20' Opening)

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Design High Water and Backwater Information: (Show high water elevations including backwater on plans)				
If 'Secondary Road' provide 25-yr high water elevation including backwater: ft.				
If 'Primary Road' provide 50-yr high water elevation including backwater: ft.				
For all roads provide 100-yr high water elevation including backwater:				
Hydrology Data for Tidal Culverts: (Only complete this sections if the culvert is tidally influenced) (show on plans)				
Mean Higher high tide elevation	=	ft.		
Mean Lower low tide elevation	=	ft.		
10-year tidal surge height	=	ft. (includes wave height)		
100-year stillwater height	=	ft.		
500-year stillwater height	=			
Maximum vel. within culvert =	100-yr. tidal surge velocity:	500-yr. tidalfpssurge velocity: fps		
Hydrology Data for Riverine Culverts: (Only complete this sections if the culvert is NOT tidally influenced) (show on plans)				
D.A. =		sq. mi. (or acres)		
$Q_{\text{Design}} =$		cfs		
Design Headwater Elevation =		ft.		
2				
$Vel_{100} =$		ft. / sec.		
100 Year Headwater Elev. =		_ ft.		
Overtopping Flood:				
Q = cfs	Probability =	0⁄0		
cc: Environmental Engineer				
Note: Probability may be determined by plotting the 2-, 10-, 25-, 50-, 100-, and 500-year discharges on Gumble paper and reading the probability corresponding to the overtopping discharge. For discharges greater than 500-year, the probability should be stated as less than (<) 0.002. A plot of the 100- and 500-year scour lines on a bridge plan and profile sheet must be provided. Revised 3/16/09				

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