

PA Dirt Gravel and Low Volume Road Program—Stream Crossing Evaluation Form

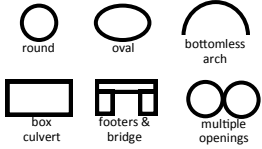
Reviewer Information: Site Information

Date: _____

Reviewer: _____

Entity: _____

Existing Structure (circle):



Other :
(describe/draw)

County _____	Township _____
Road Owning Entity _____	
Structure Owning Entity _____	
Road Name _____	
Stream Name _____	"UNT" for unnamed tributary to
Latitude _____ N	Longitude _____ W
Site notes: _____	

Existing Conditions: quantitative assessment

required

Measuring Bankfull Channel Width: Since stream conditions vary, these guidelines are flexible, and the goal is to determine bankfull width of an unaltered "reference reach" of the stream. Look upstream if possible, trying to find an undisturbed "reference reach" of stream free from influences that may impact cross section (such as debris jams, floodplain obstructions, bedrock outcrops, etc.). In order to get out of the "area of influence" from the structure, roughly estimate the bankfull channel width, then go at least 5 times that distance away from the structure to begin taking bankfull measurements. Additional bankfull widths should be measured so that at least three (with 5 preferred) are collected. Subsequent bankfull width measurement should be collected at least 1/2 bankfull width away from the first measurement, taking care to avoid channel obstructions and bends. Additional bankfull determination guidance on reverse.

Bankfull width measurements: 1) _____ ft 2) _____ ft 3) _____ ft 4) _____ ft 5) _____ ft

A. Avg. Reference bankfull width _____ ft If it is impossible to obtain reference bankfull widths upstream of the structure, downstream widths can be used if they are taken out of the structure influence area.

B. Existing structure width _____ ft Width of structure at narrowest point.

C. Structure / Bankfull ratio _____ % Structure width divided by average bankfull width. (Line B divided by line A)

Existing Conditions: qualitative assessment

D. Stream Bank Erosion	upstream	none	slight	moderate	high	severe
	Erosion of banks immediately upstream and downstream of structure	downstream	none	slight	moderate	high
E. Stream Bed Erosion	upstream	none	slight	moderate	high	severe
	Evidence of head-cutting at inlet or plunge pool scour at outlet	downstream	none	slight	moderate	high
F. Stream Bed Deposition	upstream	none	slight	moderate	high	severe
	Evidence of gavel bar formation	downstream	none	slight	moderate	high
G. Bank Armoring		unknown	none	intact	failing	

Eligibility for Crossing Structural Replacement with Program Funds

Is the existing structure opening equal to or less than 13 square feet (equivalent to a 48" diameter round pipe): **NO-see below YES-Eligible**
Note that multiple-pipes are automatically eligible for replacement, but must be replaced with a single bankfull-width structure.

For larger structures, **all three** criteria below must be met in order to be eligible for replacement with Program funds:

Existing structure to bankfull width ratio of **75% or less**. What is the existing structure to bankfull ratio (line C above): _____ %

Show signs of streambank erosion. Is stream bank erosion present (line D above): **YES NO**

Show signs of streambed erosion/aggradation. Is streambed erosion/aggradation present (line H&J above): **YES NO**

Is this stream crossing eligible for replacement with Program funds? **YES NO**

Note that ALL new structures paid for with Program funds are required to span the bankfull channel with a single opening.