

Appendix 12C-1 LD-23 Structure and Bridge Data Sheet

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
STRUCTURE AND BRIDGE DATA SHEET

Project _____ County _____
Federal Route Base No. _____ Situation data for design of bridge on Route _____
Over _____
Plane Coordinates or Latitude and Longitude from Transportation Department County Map _____
Date of Survey: _____ Location (Nearest Town, etc.) _____

GENERAL INSTRUCTION

Fill out all blanks carefully, giving information on all points. High water data is especially important and should be thoroughly investigated. Comments on any item covered in Survey Instruction Manual which are not covered below should be noted on an attached sheet.

HYDRAULIC SURVEY

1. EXISTING STRUCTURE

Existing structure is any structure at, upstream, or downstream from the proposed site have comparable drainage area.

Date of original construction: _____

Was present bridge in place at time of extreme high water? _____

Has bridge ever been washed out? _____ Date _____ Mo. _____ Yr. _____

Explain what portion of bridge or approaches have been washed out: _____

Elevation of maximum high water:

Upstream side of existing structure _____

Downstream side of existing structure _____

_____ Ft. upstream of existing structure _____

_____ Ft. downstream of existing structure _____

At other locations on the flood plain (describe) _____

Date of maximum high water: _____ Mo. _____ Yr. _____ Source of information _____

2. STREAM FLOW DATA AT PROPOSED SITE

Elevation of maximum high water of this stream at proposed location if different from data for existing site:

_____ Ft. on upstream side of Proposed _____

_____ Ft. on downstream side of proposed _____

At other locations on the floodplain (describe) _____

Date: _____ Mo. _____ Yr. _____ Source of information _____

Elevations of highest backwater caused by another stream _____

Date _____ Stream name _____

Source of information _____

Elev. of normal water: _____ (Average) Elev. of extreme low water _____

Date: _____ Mo. _____ Yr. _____

Source of information _____

Velocity of current at high water: _____ ft./sec. Velocity of current at normal water _____ ft./sec.

3. SITE CONDITIONS

Amount and character of drift during a freshet or flood: _____

Amount and character of ice: _____

Do banks or bed show scour? _____

Description and location of scour: _____

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Bed of stream consists mainly of: mud, silt, clay, sand, gravel, cobbles, boulders, soft solid rock, stratified rock, hard rock, silt sedimentation, deposition of large stones, is this material loose or well compacted: _____

Comments on stream ecology and wild life habitat: _____

4. INFLUENCE & CONTROL OF SITE

Location and condition of dams upstream or downstream that will affect high water or discharge at this site: _____

Location and description of any water-gaging stations in the immediate vicinity: _____

Elevation _____ on gage corresponds to elev. _____ on survey datum.

Extent to which sinkholes affect runoff, etc.: _____

Brief description of usage of stream for navigational purposes. By small boats, etc _____

Railroad Grade Separation Structure Site Data

Railroad milepost _____ No. of tracks _____

Situation data for design of bridge on _____ over _____

Type of construction: _____
New structure
Replacement of existing structure
Remodeling of existing structure
Paralleling existing structure

Owner of existing structure _____

Owner of grade crossing to be eliminated _____

Date of original construction of any railroad structure being replaced or within approximately 500 feet of the site of a proposed overpass _____

Conditions of existing cut slopes, whether stable, eroded, et cetera _____
Are ditches open, maintained, et cetera _____

NOTE: Show cross-section of existing railroad is at right angles to centerline crossing, with all dimensions, on bridge situation plan. This cross-section should extend from top of cut to toe of fill.

REMARKS

