

# **THE PLAN REVIEW CHECKLIST FOR BRIDGE PROJECTS**

**Revised 7/13/06**

Every bridge project (with few exceptions) should have a plan review, to conduct a plan and field review of the development of the plans. The following provides the level of plan detail that is normally required prior to holding the plan review.

Generally, the plan sheets required are as follows:

## 1. Title Sheet

- a. Location Map
- b. POB & POE (with Stationing Milepoints and/or Reference Line Stationing)
- c. Traffic Data and Design Speed (including location of speed changes)
- d. Funding, Control Section and Job Number
- e. North Arrow
- f. County, City/Village, Section, Town and Range
- g. Unit Leader/Consultant
- h. Station Equations and Structure Numbers
- i. Legend
- j. Detour Route
- k. Plan Sheet Index
- l. Project Length
- m. Description of Work
- n. Construction Influence Area
- o. List of Possible Special Use Permits

## 2. Approach Detail Sheets

- a. Typical Cross-Section Sheets Include Bituminous Application Table (if applicable)
- b. (Guardrail, etc.) Miscellaneous Detail Sheet (if applicable)
- c. Note Sheet
- d. Legend Sheet
- e. Removal/Construction Sheets
- f. Profiles Sheet (if applicable)

## 3. General Plan of Site Sheet

- a. The plan view of the structure and approaches
- b. Typical approach roadway cross section
  1. Stationing
  2. ROW
  3. Survey and construction centerline
  4. Crown location and pavement slope
  5. Lane and shoulder width
  6. Identify bituminous or concrete approach sections
  7. Plan Grade location with location of Point of Rotation

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### 3. General Plan of Site Sheet (cont'd)

8. Superelevation Transitions (if applicable)
9. Slope restoration, or seeding and sodding items
10. Sideslopes
11. Guardrail
- c. Any proposed relocation of existing utilities.
- d. A note designating all major items of work that are a part of the project. This note should also identify items that are not part of the bridge plans but are included in road plans which are part of the project.
- e. Soil erosion and sedimentation control measures/pay items
- f. Show Outfall Label on appropriate outlet end sections and headwalls into wet areas

### 4. Log of Boring Sheet

Required for all new bridges and widening projects. In addition to soil data, the elevations of the bottoms of footings, minimum pile penetration and estimated pile tips shall be shown.

### 5. General Plan of Structure Sheet. In general, the following views and sections shall be included:

- a. Plan view of the structure including approach features such as pavement, shoulders, curb and gutter and guardrail.
- b. An elevation of the structure taken perpendicular to the roadway under/or for stream crossings, parallel to the roadway over.
- c. A cross section of the deck showing the abutment, or half-abutment and half-pier.
- d. Typical cross sections through the substructure units showing excavation and backfill limits.
- e. Any other significant features peculiar to the project.
- f. If temporary supports are to be used, they should be shown or noted on this sheet.
- g. General notes.

### 6. Existing General Plan of Site Sheet

If available, this sheet is required for all major rehabilitation projects.

### 7. Existing General Plan of Structure Sheet

If available, this sheet is required for all major rehabilitation projects. Any removal of a portion of structure is to be designated on this sheet.

### 8. Interchange Layout

An interchange layout is required for all projects where the bridge is in a complex interchange area.

### 9. Staging Plans

Staging plans are required for all part-width construction projects. These may be shown on the General Plan of Site Sheet, if space permits.

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### 10. Additional items to be included

- a. Draft of Unique Special Provisions
- b. Checklist of Frequently Used Special Provisions and Supplemental Specifications
- c. Preliminary Maintaining Traffic Special Provision
- d. Guardrail worksheets
- e. Latest cost estimate
  - 1. The Engineering and Contingencies of the Estimate are to be approximately 15 percent for all projects. The total estimate is to be rounded off to the nearest \$100.
  - 2. Cost Estimate Items
    - a. General
      - Temporary Structures
      - Removal of Existing Structures
      - Removal of Portions of Structures
      - Cofferdams
    - b. Substructure
      - Unclassified Excavation
      - Temporary Steel Sheet Piling
      - Permanent Steel Sheet Piling
      - Foundation Piling
      - Tremie Concrete
- f. Crash Analysis