

Structure Selection Report QA Checklist

This checklist is to serve as quality assurance of the structure selection process. This checklist must be signed by Staff Bridge Unit Leader or designee prior to submittal of FIR documents to the Region.

Structure Number(s): _____

Cover Sheet

- Name of the Project and Site Address
- Structure(s) Number
- Property Owner Name and Contact Information
- Report Preparer Name and Contact Information
- Seal and Signature of the Designer
- Submittal and Revision Dates as Applicable

Executive Summary

- Project Description
- Structure Recommendations

Site Description and Design Features

- Existing Structures N/A: _____
- Vicinity Map
- ROW Impact N/A: _____
- Traffic Detour N/A: _____
- Utilities N/A: _____
- Geotechnical Summary
- Hydraulics Summary N/A: _____
- Environmental Concerns N/A: _____
- Roadway Design Features
 - Cross Section
 - Vertical Alignment
 - Horizontal Alignment

Structural Design Criteria

- Design Specifications
- Loading N/A: _____
 - Collision Load
 - Earthquake Load
- Deck Drainage N/A: _____
- Aesthetic Requirements N/A: _____
- Possible Future Widening N/A: _____

Structure Selection

- Selection Criteria
- Rehabilitation Alternatives N/A: _____
 - Inspection Summary
 - Load Testing Requirements N/A: _____

Add figures/sketches to the following sections as needed

- Structure Layout Alternatives
 - Vertical Clearances
 - Horizontal Clearances
 - Skew
 - Span Configurations
- Superstructure Alternatives N/A: _____
 - Concrete Girder Alternatives
 - Steel Girder Alternatives
 - Deck Drains

- Substructure Alternatives N/A: _____
- Abutment Alternatives (GRS, Integral, Semi-integral, etc.)
- Pier Alternatives
- Wall Alternatives N/A: _____
- Constructability & Construction Phasing
- ABC Design (include pre-scoping ABC rating results from spreadsheet found on the CDOT website)
- Maintenance and Durability
- Corrosive Resistance
- Summary of Structure Type Evaluation Table
- Construction Costs (including costs of alternatives)

Other

Figures and Appendices

- Alternative Typical Sections (if not provided in the report)
- General Layout of the Selected Structure
- Summary of Quantities and Cost Estimate Tables

List of Variances

Requested Variance: _____

Approved? Yes No

Requested Variance: _____

Approved? Yes No

Requested Variance: _____

Approved? Yes No

If you need more space, use an additional sheet(s) of paper.

CDOT Staff Bridge Quality Assurance Sign-off

By signing this checklist Staff Bridge Unit Leader or designee acknowledges approval of the Structure Selection Report findings, recommendations, and all design deviations from the CDOT Structural Standards and design criteria.

Print Name

Signature

Date