

CADD REVIEW CHECKLIST

County: _____
Project Name: _____

Design No.: _____

By: _____ Date: _____

1. GENERAL - ALL PROJECTS

1.1 Beginning a Project

— Preliminary Design: File named correctly. Should follow the STR_CCRRRPPP.dgn naming convention where CC is the two digit county number, RRR is the three digit route number and PPP is the three digit paren number. Leading zeroes added where necessary. See [V8DOC – Models].

— Final Design: File named correctly. Should follow the BRG_CCRRRPPP.dgn naming convention where CC is the two digit county number, RRR is the three digit route number and PPP is the three digit paren number. Leading zeroes added where necessary. See [V8DOC – Models].

1.2 Reference Files

— All necessary reference files included with submittals.

1.3 Printing

- Plans appear correct when printed to a color PDF file.
- All elements are set as primary elements, not construction elements. Construction elements do not print.
- All levels displayed. Levels with display turned off will not print.

2. MODELS

2.1 General

- Separate model for each plan sheet.
- Models named correctly. Should follow the CCDDDDsSSS naming convention where CC is the two digit county number, DDDD is the four digit design number and SSS is the three digit sheet designation. Leading zeroes added where necessary. The lower case s represents the sheet. Consistently use all upper or lower case letters so the models sort correctly. Example 850114s001 for Design Sheet 1 in Story County Design 114 [V8DOC – Models].
- Title sheet assigned sheet designation s000. The model following title sheet is designated s001.

3. STANDARD SHEETS

3.1 Working Standards

— Guidelines followed for modifying working standards See [V8DOC – Modifications].

3.2 Signed Standards

- For projects referencing standard bridge plans include the engineer who signed the standard in the index of seals. See [LRFD BDM 1.8.1.1].
- Signed standards are listed on the title sheet and included as PDF files in a separate folder for turn-in to Contracts.

4. LEVELS

4.1 All Projects

— Levels from BridgeLevels.dgnlib and other DOT level libraries. See [V8DOC – Levels].

— Correct levels are to be used as defined in the documentation. The color shall be the ByLevel color. The line style and weight can be changed as needed for appropriate detailing (dashed line style for hidden lines, other for centerlines).

— Existing and future structures shown on correct level, especially on the situation plan where both may be shown.

— Reinforcing shown on correct level (brgRebarBlack, brgRebarEpoxy, brgStainless) for all details, bent bar details and bar list bar shapes.

— Structural Steel shown on correct level (brgStructuralSteel, brgStructuralSteelWeathered).

— Shear studs shown on brgStructuralSteel (not brgStructuralSteelWeathered).

— Mechanical splicers shown on brgStructuralSteel (not brgRebarEpoxy).

— New concrete shown in a cut section is shown speckled.

4.2 Repair/Overlay Projects

— All items displayed on situation plan shown on correct level.

— Interface between overlay and existing bridge deck shown on brgConcrete level.

— Existing concrete shown in a cut section is shown hatched, not speckled.

5. TEXT

5.1 Headings/Notes

- All text uses Font 83 or Engineering Vert (true type font).
- Normal text, Sub-Header text, Header text levels used appropriately.

5.2 Dimensioning

- “Eng. Linear Dim.” selected as the automatic dimensioning style. See [V8DOCS – Scaled Details].
- All dimensions of exactly one inch displayed using inch marks (1”) to define the 1 as numeric.

6. PLAN REVISIONS

- Follow all guidelines for creating and formatting Revisions including file and model naming conventions. See [V8DOC – Revisions].

REFERENCES

BDM – Bridge Design Manual

CADD M – CADD Memo

V8DOC - [V8 Bridge Documentation](#)