

BRIDGE DESIGN MANUAL

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**MICHIGAN DESIGN MANUAL
BRIDGE DESIGN**

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CHAPTER 10• PLAN REVISIONS

10.01 GENERAL INFORMATION

(revised 11-25-2024)

General information regarding plan revisions can be found in RDM [Section 14.70](#).

- A. When it is necessary to change the plans of a project, update the CAD (Computer Aided Drafting) files and produce new plan sheets. Prepare a Revision of Plans [Form 0291](#) and/or a Pay Item Changes spreadsheet (if applicable). If the revision is for a log job, then a revision box is created on the 8½ in. x 11 in. sheet and the revisions are made in the same manner as for plan sheets described in this chapter.
- B. If the quantity change is of a bid item that is routinely balanced at the completion of construction (e.g., Structural Steel, earthwork) and the change is minor, it does not have to be included on the form, but instead note that the quantity adjustment is included in the final balancing.
- C. When making a plan revision:
 1. Changes in dimensions or quantities are made by crossing out the figures/details being revised.
 - a. Do Not Delete outdated dimensions/quantities/details.
 2. Adding the new figure/detail above or adjacent to the old figure/detail.
 3. Circling the entire revision as shown below.
 4. Place the revision number, inscribed in a triangle, adjacent to the circled figures/details as shown below.
 - a. Example: B-1 or B1

- 1) “B” designating bridge plan revision, “R” designating road plan revision, and “1” designating plan revision number.

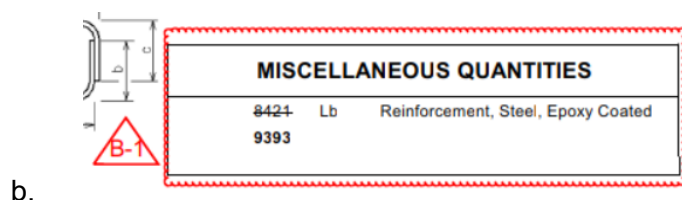


Figure 1: Miscellaneous Quantities Revision

5. The revision block on the plan sheets is to be used only for revisions made after plans are advertised for bidding.

As noted in subsection 10.01 A., update the CAD files without deleting the original details.

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10.02 PLAN REVISION PREPARATION

10.02.01 General Procedure and Distribution

(revised 11-25-2024)

General Procedure

- A. Follow the procedure laid out in RDM [Section 14.70.01](#), subsections 1. - 5.
- B. Distribution
 - 1. MDOT
 - a. From ProjectWise, send an email link from PLANREV1.PDF, to all affected “MDOT” staff notifying them that a plan revision is available. List of possible recipients includes:
 - 1) Construction Files
 - 2) TSC Construction Engineer
 - 3) Bridge Design Unit (if structure affected)
 - 4) Road Design Unit (if grade, alignment or drainage affected)
 - 5) Bridge Management Unit – Bureau of Bridges and Structures (Load Rating Engineer) (if change affects load capacity of structure)
 - 6) Structural Fabrication Unit – Bureau of Bridges and Structures (if change affects beams or other structural elements)
 - 7) Utility Coordination, Permits & Agreements Section of Development Services Division, Bureau of Development (if change in quantities is chargeable to a utility company)
 - 8) Railroad Coordination Unit – Office of Rail
 - 2. Non-MDOT
 - a. Distribute copies of Revision of Plans [Form 0291](#), a Pay Item Changes spreadsheet (if applicable) and the revised plan sheets (if required) in “PDF” format, to any “non-MDOT” affected agencies. List of possible recipients includes:
 - b. FHWA (Risk Based Project Involvement) (FHWA oversight projects) See [Section 10.02.03](#)
 - c. Consultant
 - d. City (if participating)
 - e. County (if participating)
 - f. County Drain Commission
 - g. Utility

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- h. Steel Reinforcement Fabricator
- i. Fabricator (if structural steel or prestressed concrete is affected)
 - 1) Steel beams or pile bents
 - 2) Tube railing
 - 3) Bearings
 - 4) Expansion joint device
 - 5) Stay in place forms
 - 6) PC beams
 - 7) MSE wall units
 - 8) Culverts
 - 9) Structural steel repairs
 - 10) Pin & hanger assemblies
 - 11) Ornamental fence
 - 12) Other fabricated materials/items not listed

10.02.02 Plan Revisions Involving Shop Detailers and Suppliers

Plan revisions involving shop details and suppliers require that revised detail sheets be included with Revision of Plans [Form 0291](#).

10.02.03 Plan Revisions Involving FHWA Oversight Projects (Risk Based Project Involvement (RBPI))

(revised 5-27-2013)

- A. Plan revisions involving FHWA Oversight (RBPI) projects are to be reviewed by and discussed with the FHWA before they are distributed.
- B. Indicate on Revision of Plans Form 0291 the date of FHWA approval.
- C. Exceptions to the above would be plan revision(s) involving dimensions, small changes in quantities, or a similar omission in the plans.

10.02.04 Plan Revisions Involving Utilities

(revised 10-22-2012)

On a plan revision involving a change in quantities chargeable to a utility company, send a ProjectWise email link from PLANREV1.PDF to the Utilities Coordination, Permits, & Agreements (UCPA) Section in the Development Services Division.

10.02.05 Plan Revisions Affecting the Load Carrying Capacity of the Structure

(revised DATE)

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If the plan revision will affect the load-carrying capacity of the structure, send a ProjectWise email link from PLANREV1.PDF to the MDOT Bridge Load Rating Unit of the Bureau of Bridges and Structures.

10.02.06 Plan Revision on Package Contracts

(revised 8-20-2009)

- A. On plan revisions concerning bridges in package contracts, where more than one bridge is involved, it is necessary to identify the structure, sheet number(s) and detail(s) involved on the Revisions of Plans Form.
- B. Prepare separate plan revisions for each structure involved even though the revisions are the same or are distributed at the same time.