

**MICHIGAN DESIGN MANUAL  
BRIDGE DESIGN**

**CHAPTER 11**

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# MICHIGAN DESIGN MANUAL BRIDGE DESIGN

## CHAPTER 11

### PLAN REVISIONS

#### 11.01

##### **GENERAL INFORMATION (8-20-2009) (11-25-2024)**

General information regarding plan revisions can be found in [Road Design Manual 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" x 11" 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.

#### 11.01 (continued)

- C. When making a plan revision, any change in dimensions or quantities are made by crossing out the figures/details being revised (do not delete), adding the new figure/detail above or adjacent to the old figure/detail and circling the entire revision. Place the revision number adjacent to the circled figures/details. As noted in subsection 11.01 A., update the CAD files without deleting the original details.
- D. The revision block on the plan sheets is to be used only for revisions made after plans are advertised for bidding. Revision numbers are prefixed with the letter B. Example: B-1.

# MICHIGAN DESIGN MANUAL BRIDGE DESIGN

## 11.02

### PLAN REVISION PREPARATION

#### 11.02.01

##### General Procedure and Distribution (11-25-2024)

###### A. General Procedure (8-20-2009)

Follow the procedure laid out in [Road Design Manual Section 14.70.01](#), subsections 1. - 5.

###### B. Distribution

###### 1. MDOT

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:

- a. Construction Files
- b. TSC Construction Engineer
- c. Bridge Design Unit (if structure affected)
- d. Road Design Unit (if grade, alignment or drainage affected)
- e. Bridge Management Unit – Bureau of Bridges and Structures (Load Rating Engineer) (if change affects load capacity of structure)
- f. Structural Fabrication Unit – Bureau of Bridges and Structures (if change affects beams or other structural elements)
- g. Utility Coordination, Permits & Agreements Section of Development Services Division, Bureau of Development (if change in quantities chargeable to a utility company)
- h. Railroad Coordination Unit – Office of Rail

#### 11.02.01 (continued)

###### 2. Non-MDOT

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:

- a. FHWA (Risk Based Project Involvement) (FHWA oversight projects) See [Section 11.02.03](#)
- b. Consultant
- c. City (if participating)
- d. County (if participating)
- e. County Drain Commission
- f. Utility
- g. Steel Reinforcement Fabricator
- h. 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

(11-25-2024)

## MICHIGAN DESIGN MANUAL BRIDGE DESIGN

### 11.02.02

#### Plan Revisions Involving Shop Details and Suppliers

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

### 11.02.03

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

- A. Plan revisions involving **FHWA Oversight** (RBPI) projects are to be reviewed by and discussed with the FHWA before they are distributed.  
(8-6-92)
- B. Indicate on Revision of Plans [Form 0291](#) the date of FHWA approval.  
(10-22-2012) (5-27-2013)
- C. Exceptions to the above would be plan revision(s) involving dimensions, small changes in quantities, or a similar omission in the plans.

### 11.02.04

#### Plan Revisions Involving Utilities

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-Permits Section in the Development Services Division.  
(8-20-2009) (10-22-2012)

### 11.02.05

#### Plan Revisions Affecting the Load Carrying Capacity of the Structure

If the plan revision will affect the load-carrying capacity of the structure, send a ProjectWise email link from PLANREV1.PDF to the Bridge Management Unit (Load Rating Engineer) of the Bureau of Bridges and Structures.  
(8-20-2009) (10-22-2012)

### 11.02.06

#### Plan Revision on Package Contracts (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.