

## **108-25 511 Travel Restrictions**

(This section last updated 08-17-16)

The information shown on this tabulation is used by the Project Engineer (usually the RCE) to populate the [CARS 511 request form](#) to alert traffic of construction activities along our roadways. This information reflects the *as-designed* travel restrictions only. The Project Engineer will make any updates to the [CARS 511 website](#) as measurements, traffic control plans, or designated routes change in the field.

This tabulation only applies to work done on the associated plan sheets. Tied projects or work to be completed in another phase will have their own tabulation.

Please include the entire length of the project as well as any official detours. Should part of an official detour take place outside of Iowa, please contact the 511 team for that state through the “Links” drop-down list in the top right corner of the [CARS 511 website](#). While the detour route will be highlighted on the Iowa 511 website through the route information provided in the [CARS 511 request form](#), other State 511 websites are not automatically updated or notified. Since a detour route through another state already involves collaboration with a representative of that DOT, they are likely better suited to update their State 511 site. Please document their agreement to assist if they agree to do so.

This tabulation should initially be completed for the D2 Field Exam date. This will allow for discussion of any existing or planned projects not reflected in the tabulation. Check for updates before final turn-in.

### **Instructions and Explanation**

A quick instruction and walk through for each column.

**Route, Direction, County, Location Description, and Feature Crossed:** These columns will be populated by the information shown in the following locations. Please compare the project and detour routes to each link and include any line of information that appears within the project boundaries, even if construction is not taking place at that item.

1. Vertical Clearance Restriction
  - a. <http://www.iowadot.gov/mvd/motorcarriers/vertclearlog.pdf>
  - b. Displays vertical clearance information for *bridges* on primary roads and primary road extensions. This report is published once a year by Research and Analytics.
2. Vertical Clearance Updates
  - a. <http://www.iowadot.gov/mvd/motorcarriers/VerticalClearanceUpdate.pdf>
  - b. Displays updates to the Vertical Clearance Restrictions report since the last publishing.
3. Vertical Clearance Log for *Overhead Signs* and *Mast Arms*
  - a. <http://www.iowadot.gov/mvd/motorcarriers/VerticalClearanceLogforOverheadSignsandMastArms.pdf>
  - b. Displays vertical clearance information for mast arms and sign trusses on primary roads. This report is published once a year by Bridges and Structures.
  - c. To assist in locating *Overhead Signs* and *Mast Arms*, a Google Earth file is available at [http://www.iowadot.gov/design/dmanual/01E-07/108-25\\_OverheadSignTrussAndMastArms.kmz](http://www.iowadot.gov/design/dmanual/01E-07/108-25_OverheadSignTrussAndMastArms.kmz). The identification markers match the Structure ID column in the pdf file.



**NOTE:** The lists above do not include every mast arm over a highway. Mast arms maintained by cities are not inspected by Bridges and Structures are thus not in the available dataset.

4. Vertical clearance restrictions from *Temporary Signals* are present whenever a temporary signal is part of the traffic control. This information is filled in by the designer by putting the milepost location (or range) in the Location Description column.
5. Horizontal clearance restrictions are present whenever lanes or shoulders are narrowed for construction purposes, likely by a *barrier* or another *traffic control device*. This information is filled in by the designer by putting the milepost location (or range) in the Location Description column.

**Object Type:** This column will typically be *Barrier, Bridge, Mast Arm, Sign Truss, Temporary Signal, or Traffic Control Device*.

**Maintenance Bride No., Structure ID, or FHWA No.:** This column comes from one of the first three reports shown above. Use the Maintenance Bridge Number on the Vertical Clearance Restrictions, the FHWA Number on the Vertical Clearance Updates, or the Structure ID on the Vertical Clearance Log for Overhead Signs and Mast Arms. For Barrier, Temporary Signal, and Traffic Control Device object types, place "N/A" for this column.

**Type of Restriction:**

- For Bridge, Mast Arm, Sign Truss, or Temporary Signal, the type of restriction is *vertical*.
- For Barrier or Traffic Control Device, the type of restriction is *horizontal*.

**Existing Measurement:**

- For Bridge, Mast Arm, or Sign Truss, the existing measurement comes from one of the first three reports shown above.
- For Barrier, Temporary Signal, or Traffic Control Device, the existing measurement is marked "N/A" unless they remain from a previous project.

**Construction Measurement:** These apply to the smallest clearance observed throughout the life of the project for that item. Do not provide a construction phase-by-phase breakdown.

- Barrier: Measure horizontally from face of barrier to face of barrier.
- Bridge, Mast Arm, or Sign Truss:
  - If traffic will not be allowed on the roadway during construction, mark this field "N/A".
  - If traffic is allowed during construction, indicate the smallest vertical measurement observed. An example may be a bridge replacement and new alignment where the bridge is constructed first before the roadway is lowered.
- Temporary Signal: [Section 2528.03](#) states that for temporary traffic signals, "All signal heads mounted over the road surface are mounted to a minimum of 15 ft from the bottom of the signal head to the top of the road surface." Use 15'-0" for the construction measurement in all cases.
- Traffic Control Device: Measure horizontally from the lane location of the traffic control device (channelizers, drums, etc.) to the edge of traveled way during construction (may not be the normal edge of traveled way if traffic is allowed to drive on the shoulder).

**Construction Measurement as Signed:** This is typically 1'-0" less than the construction measurement for all vertical restrictions and 1'-0" less for horizontal restrictions narrower than 14'-6", as shown on [TC-81](#). If a horizontal restriction is 14'-6" or greater, mark this field "N/A".

**Projected As Built Measurement:**

- For Bridge, Mast Arm, or Sign Truss, use the following guidelines to generate the designed measurement:
  - Bridge - From the top of crown to the lowest point of the bridge over any lane in that direction.

- Mast Arm - From the top of crown to the lowest point of the fixture over any lane in that direction.
- Sign Truss - From the top of crown to the lowest point of the lowest sign as the signs are typically placed lower than the truss itself.
- For Barrier, Temporary Signal, or Traffic Control Device:
  - If the item is to be removed before project completion, mark this field "N/A".
  - If the item is permanent (barrier) or if it is to be left in place for a later project, use the same value as the construction measurement.

## Sample Project #1

A 3 inch overlay project is taking place at the IA 163 Pella by-pass between County Road G28 and County Road T17. There are two interchanges, one at each county road, an abandoned railroad bridge near the G28 interchange, an overpass carrying Idaho Drive, and a new Sign Truss being constructed near the abandoned railroad. Because of work in the median and on the outside shoulder to install the sign truss, temporary barrier on both sides of the west bound lanes is required. While the project limits are between the two interchanges, the roadway underneath the abandoned railroad is not receiving the overlay. The tabulation for this project would be similar to [Sample Project 1](#).

## Sample Project #2

If a project is off the roadway and shoulder or involves work that does not include a horizontal or vertical restriction, the tabulation for the project would be similar to [Sample Project 2](#).