

## CHAPTER 1 BRIDGE SITE EXPLORATION

### 1.1 SURVEY FOR BRIDGES

#### 1.1.1 General

The following are the minimum survey requirements for bridge projects and the reasons for them. Additional survey beyond these requirements may be needed depending on the complexity of either the proposed bridge structure or the site. The MassDOT Survey Manual shall be used for any additional information on survey theory and methods as practiced by the MassDOT.

#### 1.1.2 Bridge Grid Survey

The bridge grid is taken in order that the proposed bridge may be fitted to the topography and an accurate calculation can be made of excavation quantities. It shall be plotted to either  $\frac{1}{4}" = 1' - 0"$  or  $\frac{1}{8}" = 1' - 0"$ . The frequency of shots and extent must be a matter of judgment of the survey party. In general, shots should be taken on a 10-foot grid with additional shots as necessary for abrupt changes in contour. They should extend at least 50 feet beyond the edges of the highway or 25 feet beyond the anticipated end of splayed wingwalls, whichever is furthest, and should cover enough ground for any type of structure. The grid should be extended to reflect topography under existing structures.

#### 1.1.3 Bridge Detail Survey

The following survey information shall be requested when: a new superstructure is to be built on existing substructures; an existing bridge is to be replaced in stages; an existing bridge is to be widened, repaired, or rehabilitated; or when the underclearances for the existing bridge are important to the underclearances to be provided at the replacement, such as for replacement bridges over water or railroads. The accuracy of surveys on bridge locations shall be greater than on general highway work. A copy of all field notes shall be provided to the Designer.

1. The angles of the abutments with the baseline, the location of tops and bottoms of batters, the widths of bridge seats and backwalls, the location of the angles of the wingwalls with abutments, the length of wingwalls and widths of copings shall be measured and the footings located if possible. The type of masonry in the substructure and its condition should be noted.
2. Detail shall be provided for all main superstructure elements, including beam lines, girder lines, truss lines, floorbeam lines, curb lines, sidewalks, fascia lines, utilities, copings, ends of bridge, etc. The stations of the centerlines of bearings and the skew angle between them and the survey baseline shall be established or verified at each abutment and at piers.
3. Bottom of beam elevations shall be taken on every beam at: the face of each abutment, both sides of each pier and span quarter points for spans less than 50 feet, span eighth points for spans over 50 feet. These elevations are needed for calculating the depth of haunches and top of form elevations.
4. Elevations shall be taken of all parts of the substructure and superstructure, such as the bridge seats, tops and ends of wingwalls, gutters, top of curb at intermediate points and at the ends of

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