

### **Proposed Wind Load Area**

Overhead sign structures shall be designed for proposed and future signs. The designer shall determine maximum wind load areas and include the wind load areas on the overhead sign structure drawings. The wind load area for the sign structures shall be determined according to the following:

- **Case A - Identified Future Signs:** For sign structures that have an identified need for larger future signs shown in the plans, the future signs shall be designed and shown on the overhead sign structure drawings. Future sign messages, sizes, and positions shall be shown on the elevation drawings.
- **Case B - General Future Wind Load Area:** For overhead signs without identified future signs shown in the plans, the structure shall be designed for a larger wind load area to accommodate future signs that are not identified at the time of the structure design. General future wind load area sizes and positions shall be shown on the elevation drawings. The general future wind load area shall be computed as follows:
  - Shape: The wind load area for each group of primary, secondary, and supplemental signs shall be rectangular.
  - Width: The wind load area shall extend 2' outside the proposed primary sign width on each side of the sign. In cases where two wind load areas intersect, the taller area shall be used. For cantilever structures, the wind load area shall be flush with the edge of the primary sign at the cantilevered end, such that the wind load areas do not extend past the end of a cantilever sign structure. (Extends 2' or 4' on right side for cantilever)
  - Height: The wind load area shall extend 2' below the bottom of each sign and 2' above the top of each sign, including secondary signs, supplemental signs, and the vertical space between signs according to Roadway Standard Drawing No. 904.20. The minimum vertical clearance shall be measured from the bottom of the lowest wind load area.
- **Case C, Exceptions from Case B:** The following are exempted from Case B, general future wind load areas:
  - Arrow Per Lane Signs
  - Interchange Sequence Signs

(See SDU Procedural Manual Chapter 4.7)