CONSTRUCTION SIGN PUNCHING AND MOUNTING DETAILS

1. Sign Supports: Galvanize or paint supports. Minimum post sizes and 2.5" x 2.5" aluminum or 2.5" x 12 gauge steel perforated tube, except where rolled. When installing signs on undrilled, unperforated pipe, use 1/2" diameter bolts spaced on 12" centers. For signs exceeding 30 square feet, minimum bolt sizes are 1/2" x 3" or 3/4" x 3". Post sizes based on a wind speed of 65 MPH. Place signs over 60 square feet at 2.5" x 12 gauge perforated tube supports as a minimum.

2. Do not attach guy wires to sign supports. Attach wind brace behind sign panel when used as a stop sign.

3. Portable Signs: Provide portable sign panels made of .100" aluminum, steel, or other approved material, except where rolled. Punch all holes round for use in the diamond pattern. (i.e., "left and right" message on diamond signs).

4. Route Marker Assembly: Provide route marker assembly signs, such as the outlined direction and directional arrows, with a background and legend that match the route marker they are used with:

- Interstate: white legend on blue background
- Intermediate: white legend on green background (280 and D56 - black legend on white background)
- County: yellow legend on blue background

5. Vertical Clearance: Install signs with a vertical clearance of 6'-0" (TYPICAL SECTION), in areas where parking or pedestrian movements are likely or where the view of the sign may be obstructed. Install signs with a vertical clearance of 12'-0" from the centerline of the driving lane in areas of a curb.

6. The vertical clearance to secondary signs is 1'-0" less than the vertical clearance of the dominant sign.

7. Vertical Clearance: Install signs with minimum vertical clearance of 7'-0" from the ground at the point for signs with an area exceeding 50 square feet.

8. Portable Signs: Provide portable sign panels made of 0.100" aluminum, steel, or other approved material, with a background and legend that match the route marker they are used with:

9. Punch all holes round for use in the diamond pattern (i.e., "left and right" message on diamond signs).

10. Use of non-matching height (minimum 12" vertical clearance) portable signs for 5 days or less is allowed as long as the view of the sign is not obstructed. Time delays caused by unforeseen circumstances, such as equipment breakdown, installation of temporary road signs, punch all holes round for use in the diamond pattern (i.e., "left and right" message on diamond signs).

11. Portable Signs: Provide portable sign panels made of 0.100" aluminum, steel, or other approved material, with a background and legend that match the route marker they are used with:

12. Punch all holes round for use in the diamond pattern (i.e., "left and right" message on diamond signs).

13. Use of non-matching height (minimum 12" vertical clearance) portable signs for 5 days or less is allowed as long as the view of the sign is not obstructed. Time delays caused by unforeseen circumstances, such as equipment breakdown, installation of temporary road signs, and the original document is stored at the North Dakota Department of Transportation.

14. This document was originally issued and sealed by Roger Wolfslag, Registration Number: PE-2976 on 9/27/2017 and the original document is stored at the North Dakota Department of Transportation.