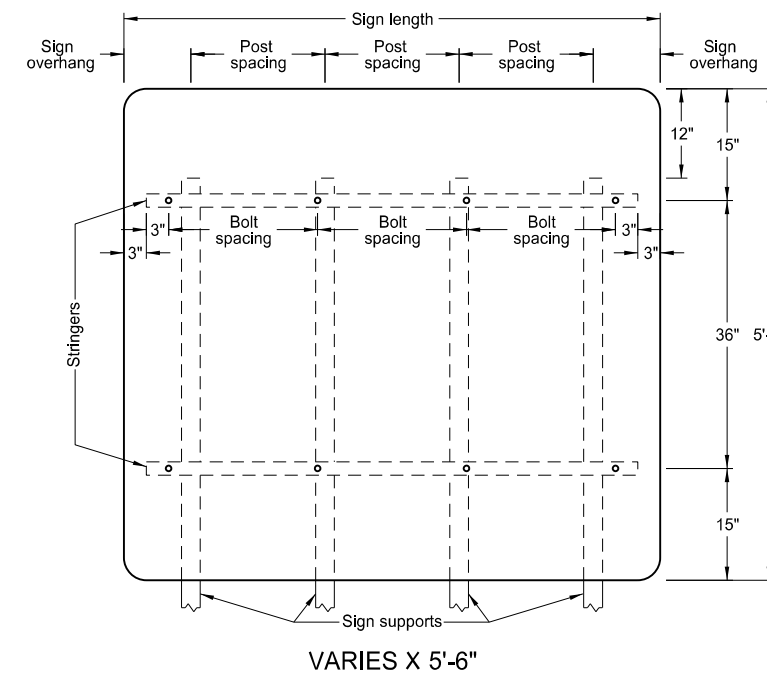
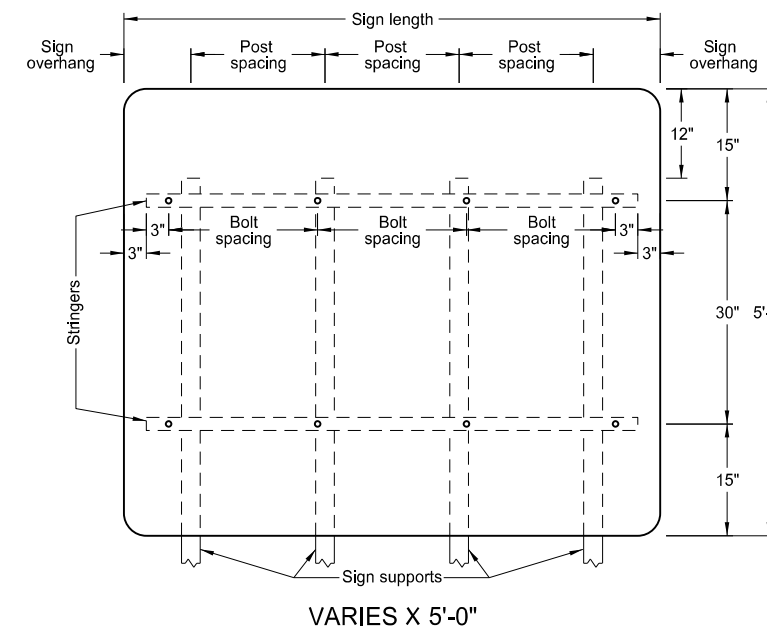
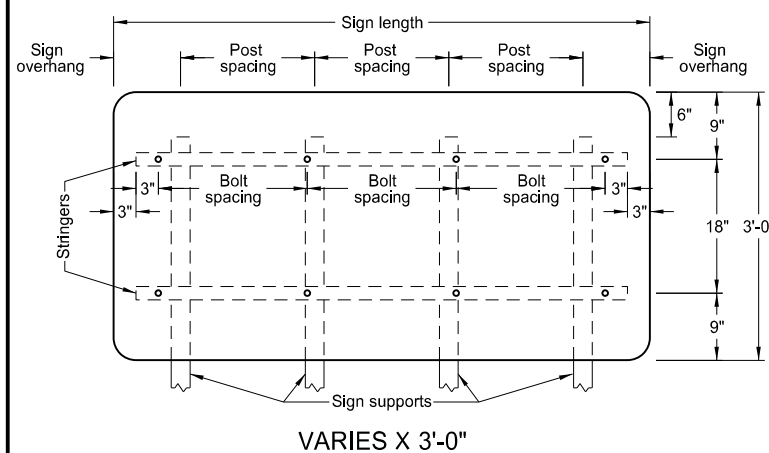
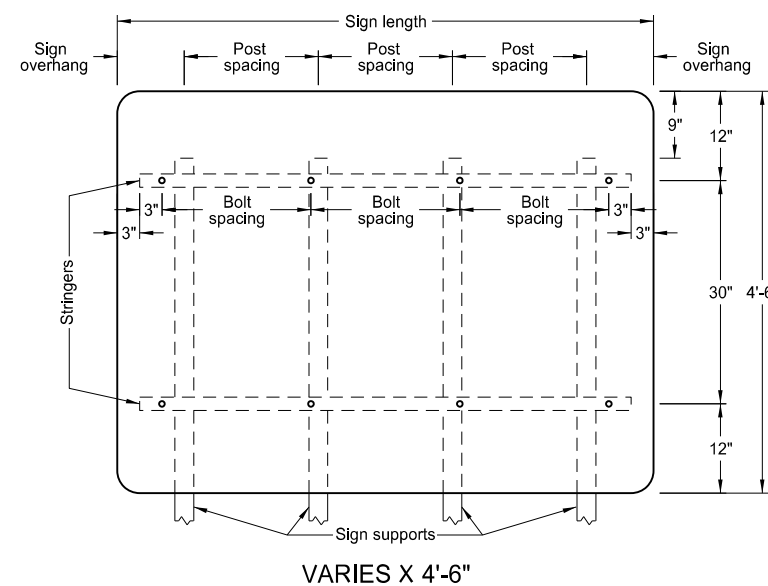
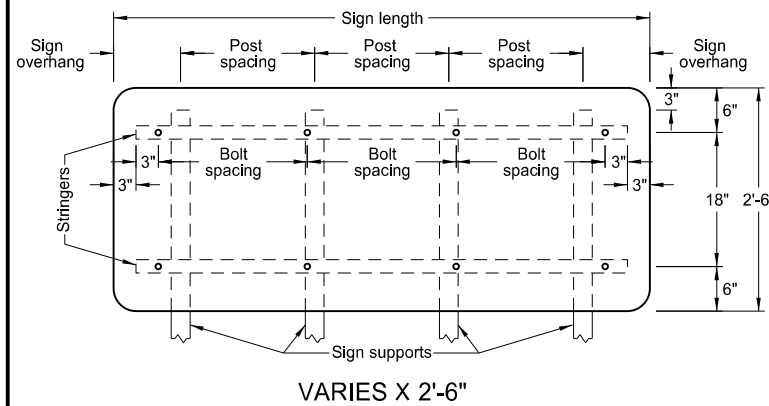
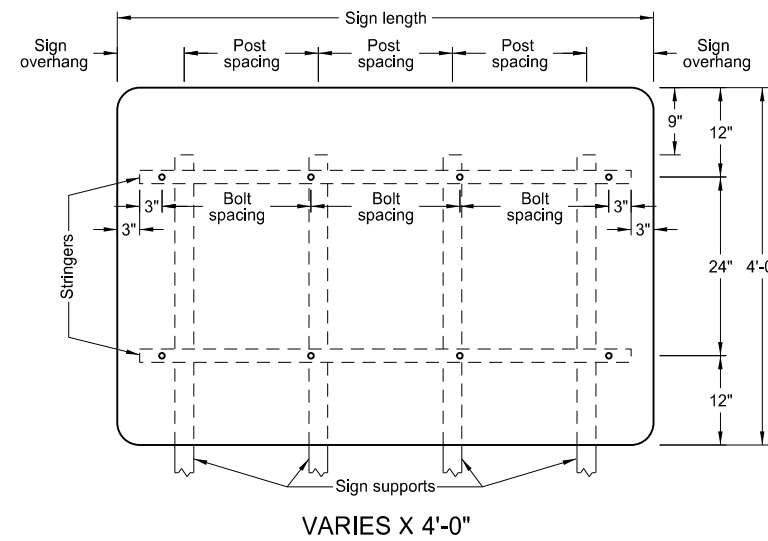
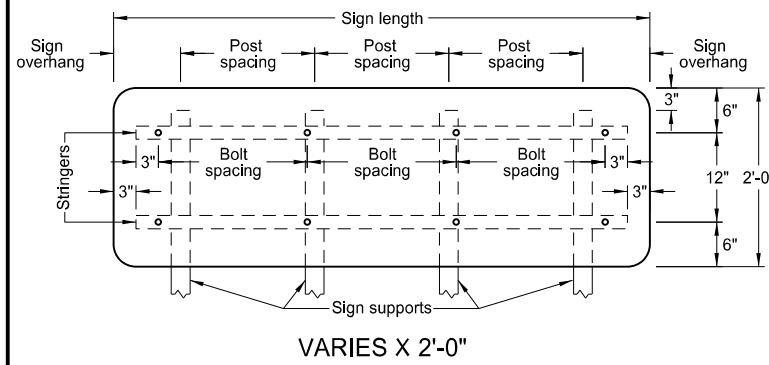
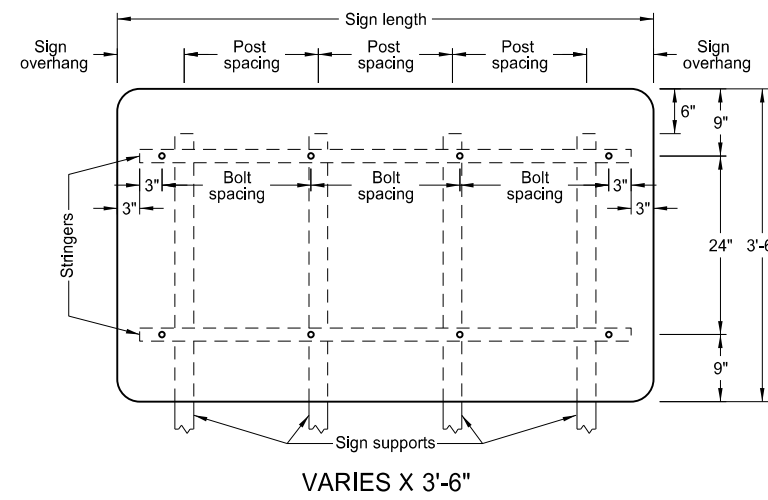
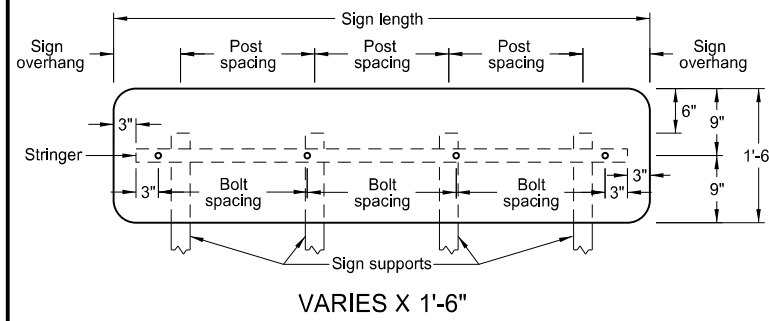


SIGN PUNCHING, STRINGER AND SUPPORT LOCATION DETAILS FOR VARIABLE LENGTH SIGNS



| 4 POSTS | | | |
|-------------|---------------|--------------|-----------------|
| Sign Length | Sign Overhang | Post Spacing | Bolt Spacing |
| 8'-6" | 0'-3" | 2'-8" | 2'-22" & 2'-23" |
| 9'-0" | 0'-6" | 2'-8" | 24" |
| 9'-6" | 0'-9" | 2'-8" | 4'-20" & 1'-22" |
| 10'-0" | 1'-0" | 2'-8" | 2'-21" & 3'-22" |
| 10'-6" | 1'-3" | 2'-8" | 4'-23" & 1'-22" |
| 11'-0" | 1'-0" | 3'-0" | 24" |
| 11'-6" | 0'-6" | 3'-6" | 21" |
| 12'-0" | 0'-6" | 3'-8" | 22" |
| 12'-6" | 0'-6" | 3'-10" | 23" |
| 13'-0" | 0'-6" | 4'-0" | 24" |
| 13'-6" | 1'-3" | 3'-8" | 3'-22" & 4'-21" |
| 14'-0" | 1'-6" | 3'-8" | 2'-23" & 5'-22" |
| 14'-6" | 1'-3" | 4'-0" | 6'-23" & 1'-24" |
| 15'-0" | 1'-6" | 4'-0" | 24" |
| 15'-6" | 1'-0" | 4'-6" | 6'-22" & 2'-21" |
| 16'-0" | 1'-0" | 4'-8" | 4'-23" & 4'-22" |
| 16'-6" | 1'-0" | 4'-10" | 6'-23" & 2'-24" |
| 17'-0" | 1'-0" | 5'-0" | 24" |
| 17'-6" | 0'-6" | 5'-6" | 22" |
| 18'-0" | 2'-0" | 4'-8" | 6'-23" & 3'-22" |
| 18'-6" | 1'-9" | 5'-0" | 6'-23" & 3'-24" |
| 19'-0" | 0'-6" | 6'-0" | 24" |
| 19'-6" | 3'-0" | 4'-6" | 8'-22" & 2'-23" |
| 20'-0" | 3'-0" | 4'-8" | 8'-23" & 2'-22" |

- Notes:
1. Use 0.100 inch minimum thickness sign backing material.
 2. Use 1½" x 1½" perforated square tube stringers.
 3. Punch holes round for ⅜" bolt.

| NORTH DAKOTA DEPARTMENT OF TRANSPORTATION | |
|----------------------------------------------|--------------------------------|
| 9-25-12 | |
| REVISIONS | |
| DATE | CHANGE |
| 8-30-18 | Updated notes to active voice. |
| 9-04-19 | New Design Engineer PE Stamp. |

This document was originally issued and sealed by Kirk J Hoff, Registration Number PE-4683, on 9/04/19 and the original document is stored at the North Dakota Department of Transportation