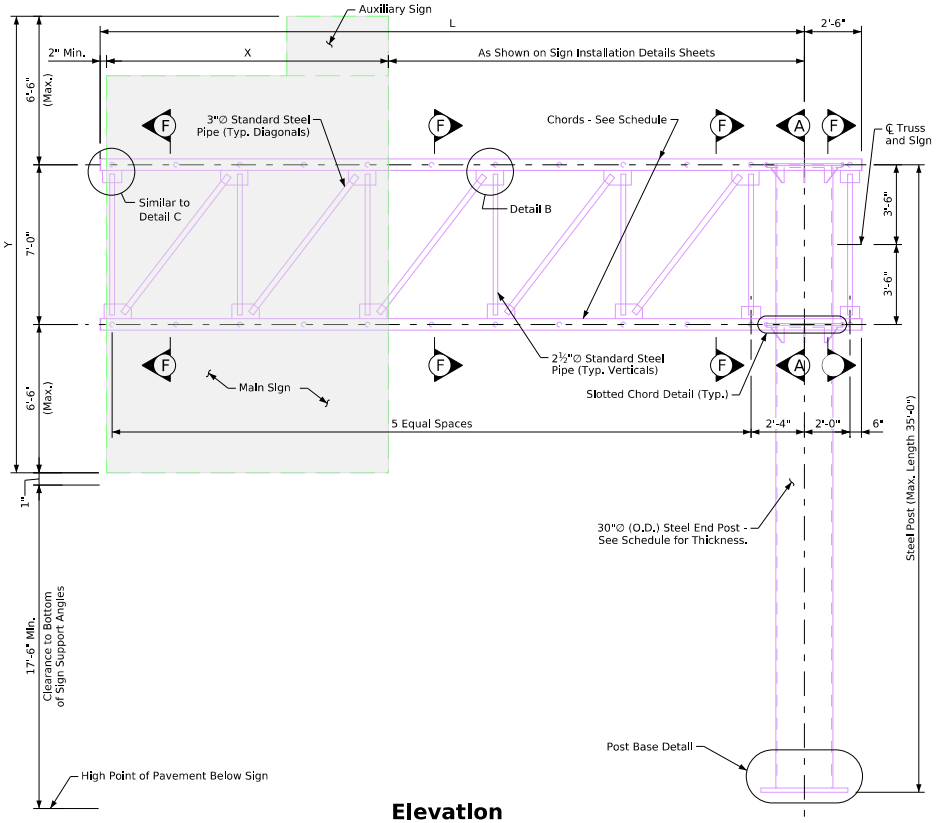
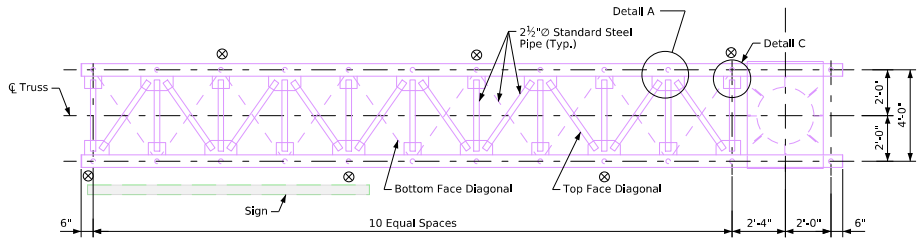


Elevation



Plan

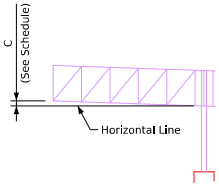
⊗ Indicates the connection of interior diagonals in vertical plane to the top chord members. See Section F-F.

Max. Truss Length L	Max. Sign Height Y	Max Sign Area X*Y ft²	Chords	Post Wall Thickness	Camber C
40'-0" (1)	20'-0"	400	HSS 6.625 x 0.500 (2)	0.625"	4"
38'-0"	20'-0"	400	HSS 6.625 x 0.432	0.625"	3½"
36'-0"	20'-0"	400	HSS 6.625 x 0.432	0.625"	3"
34'-0"	20'-0"	400	HSS 6.625 x 0.375 (3)	0.625"	2 ½"
32'-0"	20'-0"	400	HSS 6.625 x 0.375 (3)	0.625"	2½"
30'-0"	20'-0"	400	HSS 6.625 x 0.375 (3)	0.625"	2"

(1) Although these standards allow for a truss maximum cantilever length of 40'-0", the Designer should check material availability before selecting a truss length greater than 39'-6". HSS 6.625 chords are typically stocked in 42'-0" lengths. A truss length of 40'-0" requires a total chord length of 42'-6".

(2) HSS 6.625 x 0.562 may be substituted for HSS 6.625 x 0.500 for truss lengths from 39'-6" to 40'-0".

(3) HSS 6.625 x 0.432 may be substituted for HSS 6.625 x 0.375 for truss lengths from 30'-0" to 36'-0".



Camber Diagram

See Standard Sheet SCST-04-17 for Section A-A.

See Standard Sheet SCST-05-17 for Details A, B and C; Sections F-F and G-G; and slotted chord detail.

See Standard Sheet SCST-06-17 for post base detail.

11-2025
Latest Revision Date

Approved by Bridge Engineer

IOWA DOT

Standard Design

Steel Cantilever Sign Truss

July, 2017

Sign Support Views

SCST-02-17

- Revised 12-2021: Changed designation of encircled Note 2 to encircled Note 3 to permit insertion of new encircled Note 2. Added new encircled Note 2 that allows substitution of HSS 6.625 x 0.562 for HSS 6.625 x 0.500 for truss lengths from 39'-6" to 40'-0".
- Revised 11-2025: This sheet reissued, sheet format update. In Elevation View, changed "Sign Board" to "Main Sign" and added "Auxiliary Sign". In Plan View, changed "Sign Board" to "Sign".
- steelcantileversigntruss.dgn - SCST-02-17 - This sheet issued 07-2017.