

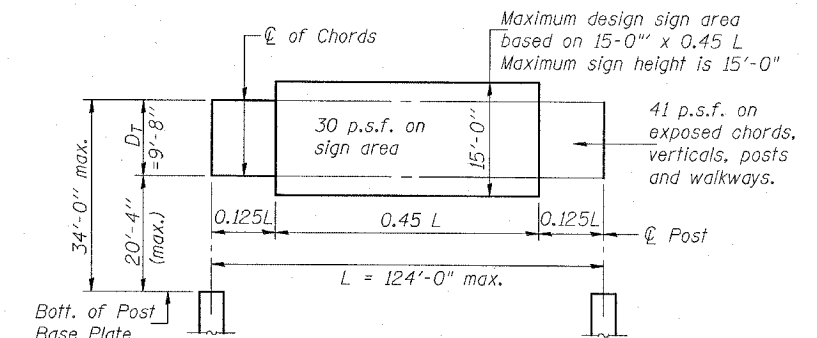
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note 1: Utilize construction specifications current at time contract is advertised. Original design based on 1994 AASHTO Specifications, but modifications shall meet current specifications.

SECTION 60-14-2		CONTRACT NO. 76986	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
310		MADISON	418 101
STA. 1947+00		TO STA. 1948+75	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

GENERAL NOTES

SPECIFICATIONS:
DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals - (Note 1)
CONSTRUCTION: Standard Specifications for Road and Bridge Construction, State of Illinois; Supplemental Specifications for Road and Bridge Construction; Standard Specifications for Traffic Control Items and Special Provisions. (Note 1)
MINIMUM CLEARANCE: Vertical Roadway Clearance = 17'-3" (All Obstructions)
LOADING: 90 M.P.H. WIND VELOCITY.
WIND LOADING: 30 p.s.f. normal to Sign Panel Area as shown below in Wind Loading Diagram plus 41 p.s.f. normal to exposed frame members.
WALKWAY LOADING: Dead Load plus 500# concentrated Live Load.
MATERIALS:
REINFORCEMENT BARS shall conform to the requirements of AASHTO M31 or M53, Grade 60. Reinforcement designated (E) shall be epoxy coated in accordance with Art. 706.10 of the Standard Specifications.
CLASS SI CONCRETE shall be used throughout.
STRUCTURAL STEEL: All material for truss units, post assemblies, angles, gussets and chord splices shall conform to either ASTM A 500 Grade C or AASHTO M 270 Grade 50 or 50W (M-223 Gr. 50 or M-222). For splice shims, sign brackets, walkways, etc., see respective details.
 Material identified by a "CVN" in structural details must satisfy heat (H) lot frequency longitudinal Charpy V-Notch (CVN) impact test requirements of 15 ft.-lbs. at 40° F., per AASHTO T-243 and T-244. This shall include: chords; verticals; posts, 1/2" gusset plates, 3/4" chord-to-post stiffener plates and bracing angles; and all chord splice material except shims.
HIGH STRENGTH BOLTS shall conform to the requirements of AASHTO M 164 and shall be galvanized per ASTM B695, Class 50.
PAINTING: The inorganic zinc-rich primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel, except anchor bolts and stainless steel screen shall not be painted. The color of the final acrylic coat shall be "Reddish Brown", Munsell No. 2.5 YR 3.4. If acrylic coats are shop-applied, proper cure of the zinc primer shall first demonstrate a MEK Resistance Rating of 4 or greater when tested per ASTM D 4752. See the Special Provision "Cleaning and Painting Metal Structures".
WELDING: All welding shall be in accordance with the Standard Specifications for Road and Bridge Construction. (Note 1)
ANCHOR BOLTS: Shall conform to AASHTO M-314 Gr. 55 with a minimum Charpy V-Notch (CVN) energy of 15 ft.-lbs. at -10° F. (test prior to galvanizing).
CONCRETE SURFACES: Bridge Seat Sealer shall be applied to all concrete surfaces above an elevation 6" below the final ground line in accordance with Art. 587 of the Standard Specifications. (Cost incidental to Drilled Shaft Concrete Foundations.)



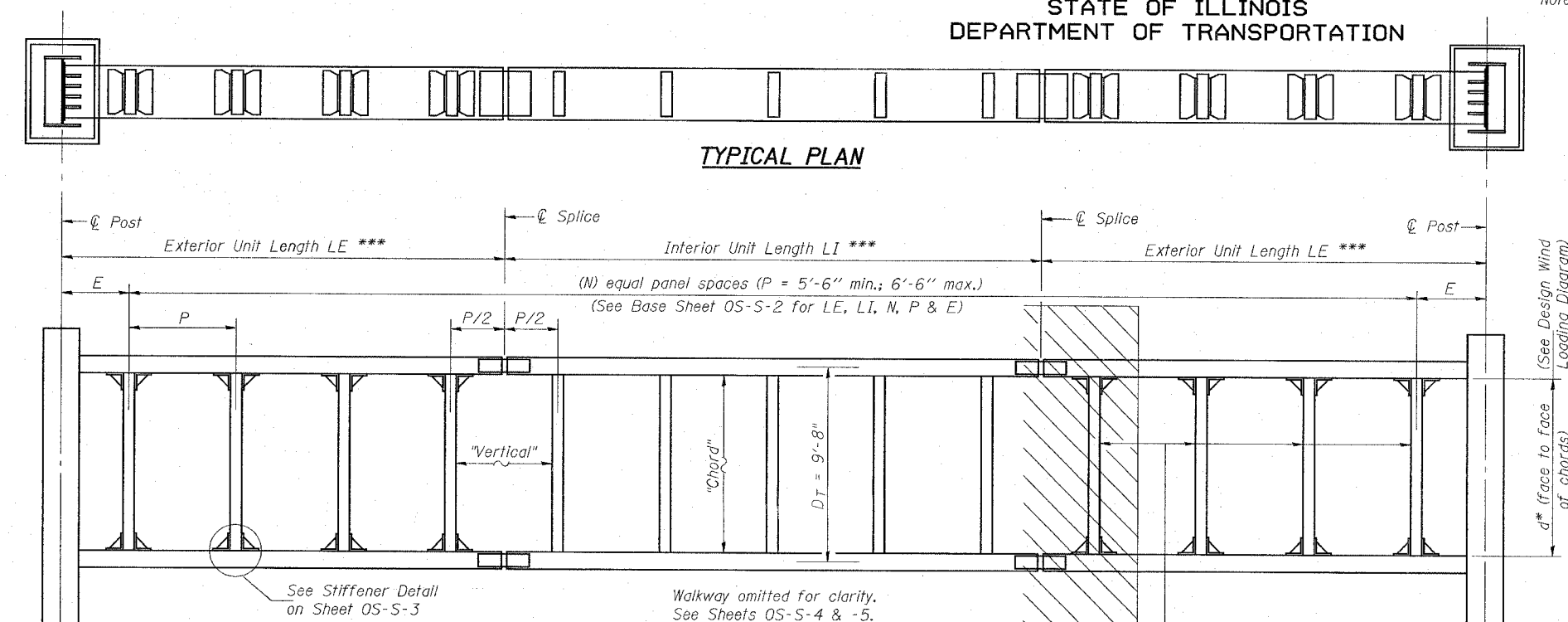
DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components, and must be submitted to the I.D.O.T. Bureau of Bridges and Structures for approval. (Note 1)

OVERHEAD SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

FAP 310
SECTIONS 60-14-2 & 60-14-2B
MADISON COUNTY

TYPICAL PLAN



Walkway omitted for clarity. See Sheets OS-S-4 & -5.

***Exterior Unit Length (LE) = 16'-3" min., 42'-0" max.
Interior Unit Length (LI) = 20'-0" min., 41'-0" max.

E = 1'-10" min.
2'-2" max.

Note: Stiffeners shall be used at top and bottom ends of verticals to chords at each end of truss - 3 verticals minimum for spans 90' or less and 4 verticals minimum for spans 91' or more.

TYPICAL ELEVATION

Elev. A = Elevation on roadway below point of minimum clearance to structure (walkway support or truss). DL and DR measured along truss.

Sign Structure Number	Station	L=c to c Posts	Elev. A	Dim. DL	Dim. DR
8S060S255R006.3	18+430	76.0	136.812	24.0	52.0
ENG STA 1948+50					
8S060S255L013.9	30+760	62.5	156.990	36.25	26.25
8S060S255R016.0	34+025	60.0	167.263	26.5	33.5

*d = 9'-2"

TOTAL BILL of MATERIAL

OVERHEAD SIGN STRUCTURE - SPAN (SPECIAL)	METER	60.5
OVERHEAD SIGN STRUCTURE WALKWAY - TYPE S	METER	35.7
DRILLED SHAFT CONCRETE FOUNDATIONS	CU M	25.2

DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES