STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

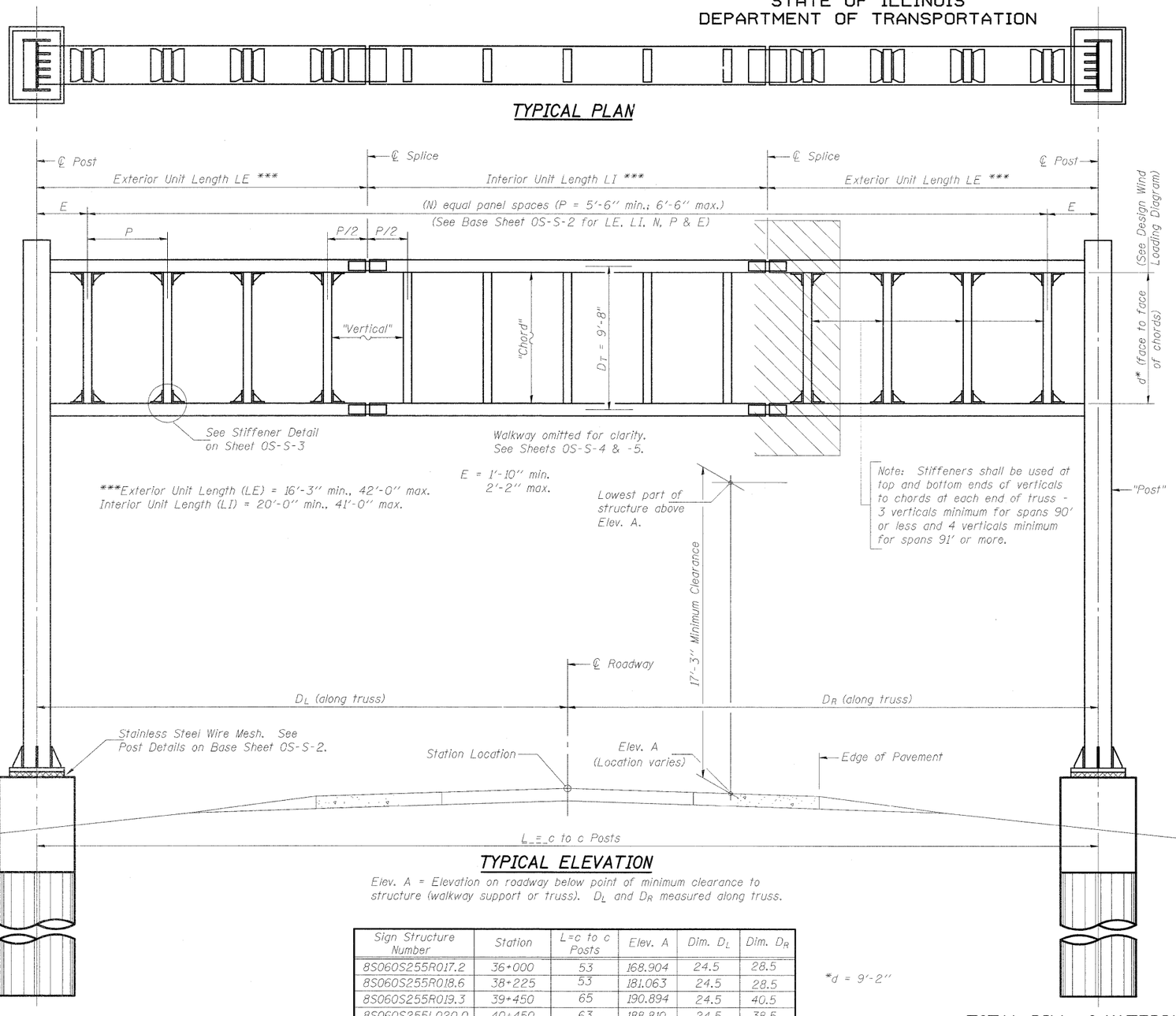
Note 1: Utilize construction specifications current at time contract is advertised. Original design based on 1994 AASHTO Specifications, but modifications shall meet current specifications.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	60-15SG	MADISON	54	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1 6 SHEETS

Contract #76E76

TYPICAL PLAN



TYPICAL ELEVATION

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

Sign Structure Number	Station	L=c to c Posts	Elev. A	Dim. D_L	Dim. D_R
8S060S255R017.2	36+000	53	168.904	24.5	28.5
8S060S255R018.6	38+225	53	181.063	24.5	28.5
8S060S255R019.3	39+450	65	190.894	24.5	40.5
8S060S255L020.0	40+450	63	188.810	24.5	38.5

*d = 9'-2"

TOTAL BILL of MATERIAL

OVERHEAD SIGN STRUCTURE - SPAN (SPECIAL)	Lin. Ft.	234
OVERHEAD SIGN STRUCTURE WALKWAY - TYPE S	Lin. Ft.	138
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	50

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, $\frac{1}{2}$" gusset plates, $\frac{3}{4}$" chord-to-post stiffener plates and bracing angles; and all chord splice material except shims.

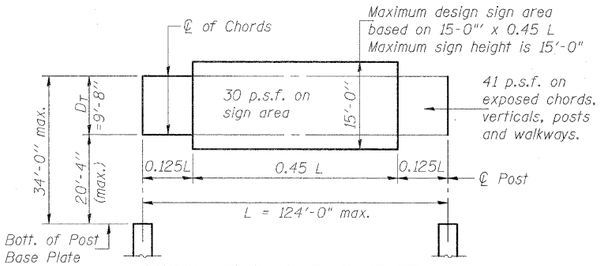
HIGH STRENGTH BOLTS shall conform to the requirements of AASHTO M 164 and shall be galvanized per ASTM B695, Class 50.

PAINTING: The Organic zinc-rich primer/Epoxy/Urethane Paint System shall be used for shop painting of new structural steel, except anchor bolts and stainless steel screen shall not be painted. The color of the final urethane coat shall be "Reddish Brown", Munsell No. 2.5 YR $\frac{3}{4}$. See the Special Provision "Cleaning and Painting New Metal Strutures".

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)

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

- 200

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

OS-S-1 SPECIAL 7/01/2006

OVERHEAD SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY