

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f' = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

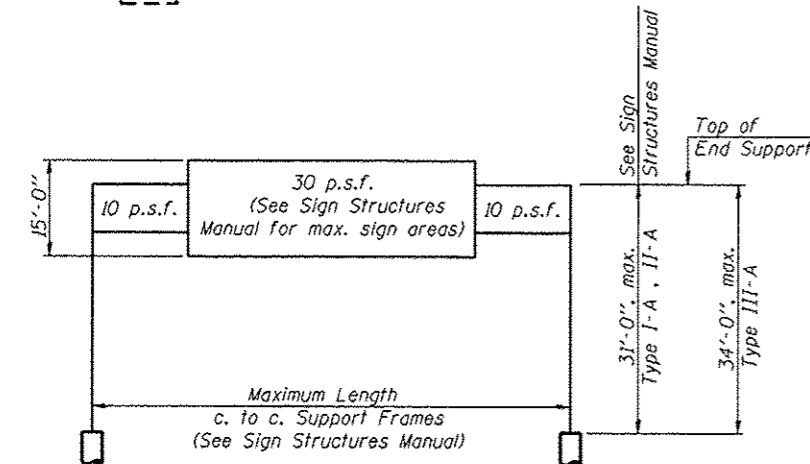
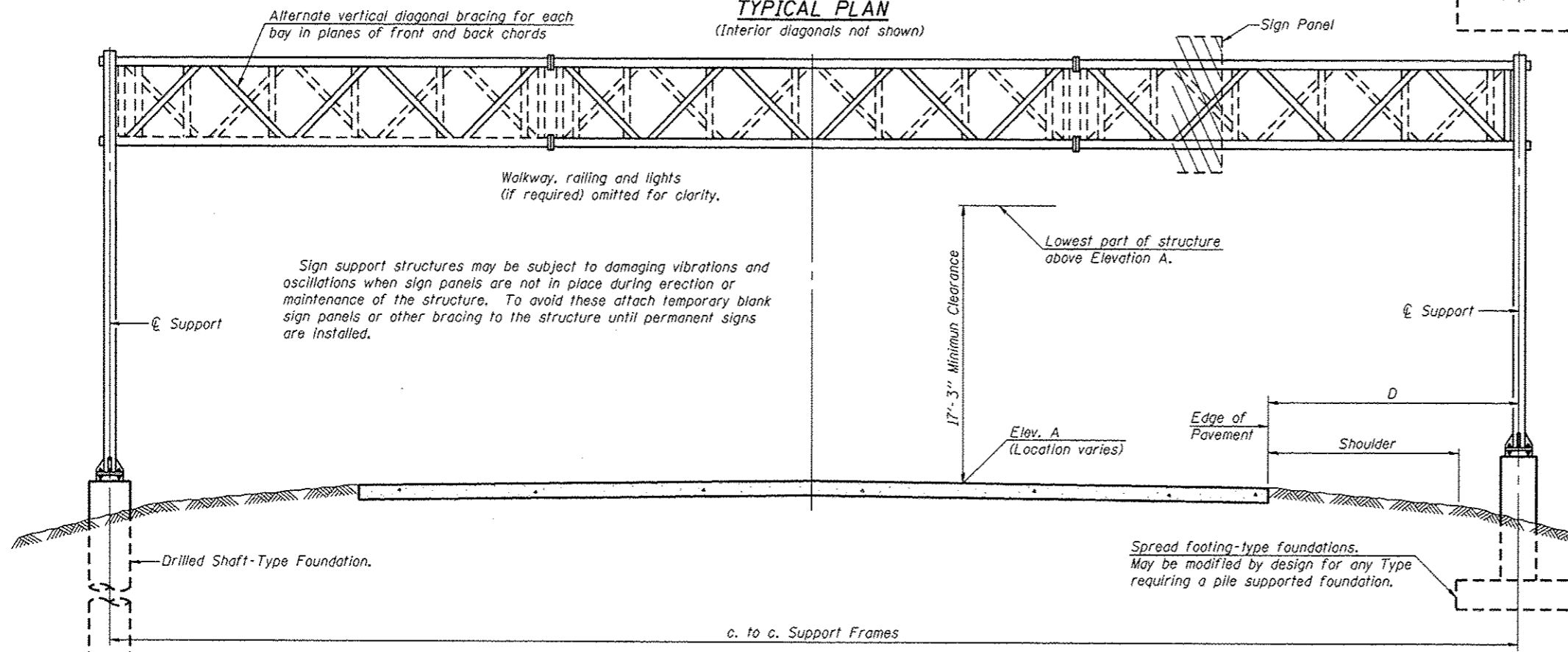
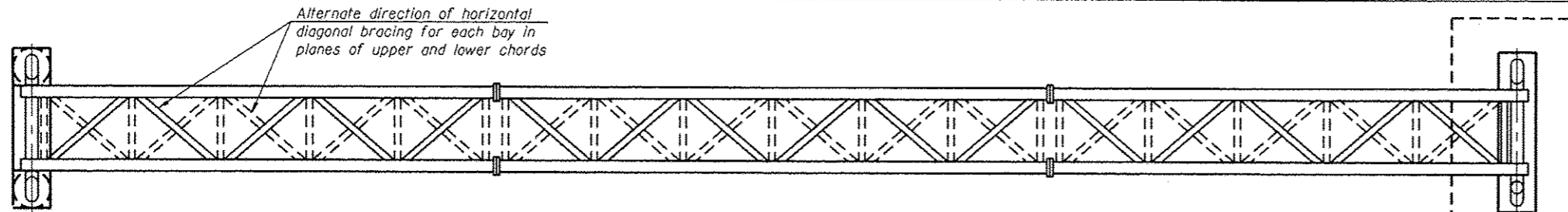
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: It shall be the Contractor's responsibility to verify all dimensions and conditions existing in the field prior to construction and ordering materials.



TYPICAL ELEVATION
Looking at Face of Signs

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

| Structure Number | Location | Station | Design Truss Type | c. to c. Supports | Elev. A | Dim. D | Height of Tallest Sign | Total Sign Area (Sq. Ft.) | Note |
|-----------------------|----------|---------|-------------------|-------------------|---------|------------|------------------------|---------------------------|------|
| 5 ISO49U012R000.0-000 | 2 | 247+00 | I-A | 73'-0" (4) | 772.08 | 19'-1 1/2" | 7'-6" | 206.25 | 1 |
| ISO161090L082.6-000 | 12 | 3535+00 | I-A | 67'-0" (3) | Note 3 | 17'-0"± | 11'-6" | 447 | 2 |

NOTES

- Anchor bolts in existing foundation will be reused for new structure.
- Top of existing concrete foundation will be reconstructed. See Sheet S8.
- Survey elevations and distances are not available for this Location. The Contractor is responsible to obtain survey elevations & span length and then determine the vertical dimensions and elevations for the pipe support frames, and the exact span length.
- The distance between existing support frames was measured by survey to be 73.07'.
- Sign panels to be removed and reinstalled.

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|--------------|--------------------|---------|
| USER NAME * | DESIGNED - | REVISED |
| PLOT SCALE * | CHECKED - | REVISED |
| PLOT DATE * | DRAWN - 08/01/2013 | REVISED |
| | CHECKED - | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM SPAN SIGN TRUSS; STEEL SUPPORTS
GENERAL PLAN AND ELEVATION

SHEET NO. S1 OF 28 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------|---------|---------|---------------------------|-----------|
| VAR. 01 OVD SIN STR REPL14-30 | | VARIOUS | 47 | 10 |
| CONTRACT NO. 46291 | | | ILLINOIS FED. AID PROJECT | |