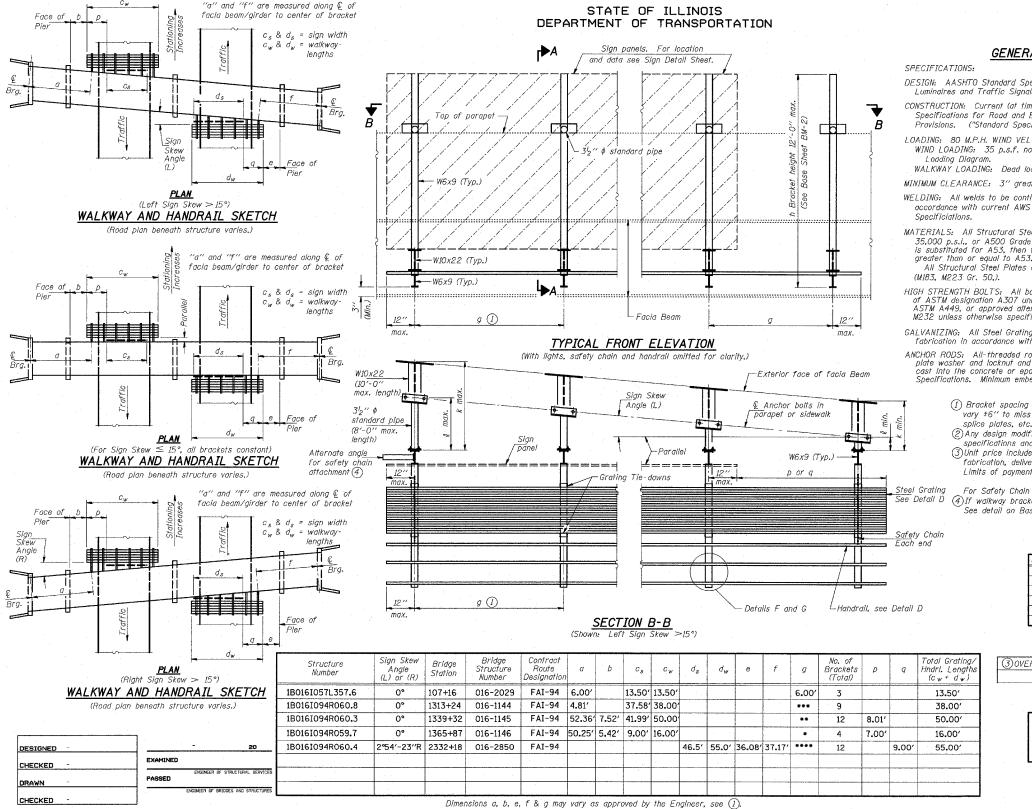


62695



When  $c_w < c_s$  and/or  $d_w < d_s$ , use alternate brackets without walkway supports where applicable, see  $\Im$ .

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

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: 80 M.P.H. WIND VELOCITY PLUS 30% GUST FACTOR

WIND LOADING: 35 p.s.f. normal to Sign Panel Area and truss elements not behind sign WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3'' greater than bridge members at all locations. (All Obstructions)

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

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.l., or A500 Grade B or C with a minimum yield of 46,000 p.s.l. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A.5.3. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO MI64 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

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

ANCHOR RODS: All-threaded rod conforming to ASTM A307,  $^34'' \not \circ x$  12'' long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9''.

(1) Bracket spacing  $g \le 6'$ -0" max. Spacing shall be uniform if possible but may vary ±6" to miss existing obstruction (rall post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.

(2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.

3) Unit price includes grating, handrall, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw., dw) unless otherwise specified.

For Safety Chain Details and Details D, F and G, see Base Sheet BM-4. See Detail D 4) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

REVISION

## TOTAL BILL of MATERIAL

3) OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED

FOR BRIDGE-MOUNTED SIGN STRUCTURES AT STA. 107+16, STA. 1313+24, & STA. 2332+18 USE W6X12 INSTEAD OF

THE CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTRACTOR TO ALLOW FOR INSTALLATION OF APPROPRIATE EQUIPMENT PRIOR TO ERECTION OF THE

W6X9.

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94 (DAN RYAN EXPRESSWAY)

BRIDGE MOUNT SIGN STRUCTURES GENERAL PLAN AND ELEVATION

SCALE: AS NOTED DATE: MARCH 25, 2005

DRAWN BY: AMB CHECKED BY: TB

TYLININTERNATIONAL

BM-1

11/1/2002

\*Starting from bracket at the right (facing southbound), the spacings are  $5.61^{\prime},~4.11^{\prime}$  and  $5.11^{\prime}.$ \*\*Starting from the bracket at the right (facing southbound), the spacings are 2.18', 6.00', 2.17', 5.50', 3.27', 6.00', 5.22', 4.12', 5.04', 5.22', and 4.12'. \*\*\*Starting from the bracket at the right (facing southbound), the spacings are 3.92', 3.92', 5.12', 5.93', 3.41', 3.80', 4.33', and 6.00'.

\*\*\*\*Starting from bracket at the right (facing northbound), the spacings are 3.50', 5.50', 3 @ 4.33', 3 @ 5.34', and 3 @ 5.00'.