

ASTM A53 Gr minimum yield diameter shall All Structu Gr. 50W*, Si 302 or 304, longitudinal C FASTENERS FOR requirements lock nuts. ASTM A449. Bolts and lock A307. All bo must have nyl Type 302 or studs are use IDOT Standar testing of bolt U-BOLTS AND E

Foot Foot 9 Foot

Foot 88'-0

Cu. Yds

Cu, Yds. POUND

33.6

5420

	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	FA180	(50-2)HBR	LA SALLE	460	NO. 12.8
	STA.		TO STA.	1	1
	FED. RO	AD DIST. NO.	ILLINOIS FE	D. AID PROJ	ECT
	CON	FRACT NO.	86603		(1 OF 15)
GENERAL NOTE	<u>s</u>				
DESIGN: AASHTO Standard Specifications for Struct Luminaires and Traffic Sianals. ("AASHTO Specifi			nhway Signs	• ·	
CONSTRUCTION: Current (at time of letting) Illinois L Specifications for Road and Bridge Construction, S Provisions. ("Standard Specifications")	Departm	ent of Transp	ortation Sta tions and S	ndard Deciai	
LOADING: 90 M.P.H. WIND VELOCITY WIND LOADING: 30 p.s.f. normal to Sign Panel Av	rea and	truss element	s nat behin	d sign	
Loading Diagram. WALKWAY LOADING: Dead ioad plus 500 lbs, conc DESIGN STRESSES:	centrate	d live load,			
Field Units $f'_{C} = 3,500 \text{ p.s.i.}$ $f_{V} = 0.000 \text{ a ci} (reinformation)$					
fy = 60,000 p.s.i. (reinforcement) WELDING: All welds to be continuous unless otherwis accordance with current AWS D1.1 and D1.2 Structure and the Standard Specifications.					
MATERIALS: Aluminum Alloys as shown throughout p ASTM A53 Grade B with a minimum yield of 35,00 minimum yield of 46,000 p.s.i, If A500 pipe is su	0 p.s.l.,	or A500 Gra	de B or C	with a	
diameter shall be as detailed and wall thickness gro All Structural Steel Plates and Shapes shall con	form to	AASHTO M27	0 Gr. 36, 0	Gr. 50 or	
Gr. 50W*. Stainless steel for shims, sleeves and 302 or 304, or another alloy suitable for exterior The steel pipe and stiffening ribs at the base p longitudinal Charpy V-Nolch (CVM) energy of 15 lb.	exposu. Nate foi	re and accept the column s	able to the hall have a	Engineer. minimum	
FASTENERS FOR ALUMINUM TRUSSES: All bolts not requirements of AASHTO MI64 (ASTM A325), or a lock nuts. Threaded studs for splices (if Members ASTM A449, ASTM A193, Grade B7, or approved of Bolts and lock nuts not required to be high streng A307. All bolts and lock nuts must be hot dip ga	ipprovéa interfe ilternate th must	' alternate, and are) must satis , and must ha salisfy the re	d must have fy the requ ve matching quirements	matching irements lock nut of ASTM	of 's.
must have nylon or steel inserts. A stainless stee Type 302 or 304, is required under both head and studs are used. High sirength bolt installation sha IDOT Standard Specifications for Road and Bridge	nl flat w d nut or sil confo	asher conform under both n rm to Article	ing to AST. uts where i 505.04 (f)	M A240 hreaded (2)d of t	he
testing of bolts will not be required.	20110110			, i noum	
U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts mus 304, 304L, 316 or 316L, Condition A, cold finished acceptable to the Engineer. All nuls for U-Bolts of the ACCM 4302 with pulses the interaction and the	t stainle	ss steel, or a	n equivalent	material	

304, 304L, 3 acceptable t to ASTM A307 with nylon or steel inserts 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 MIII. Painting is not permitted. ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

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

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

*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.

	ILLINOIS DEPARTMENT OF TRANSPORTATION OVERHEAD SIGN STRUCTURES
REVISIONS	GENERAL PLAN & ELEVATION
NAME	ALUMINUM TRUSS & STEEL SUPPORTS
	3S0501080R076.4. STATION 643+14
	3S0501080L077.0, STATION 674+70
	SCALE: NONE DRAWN BY: DWH
	DATE: 09/04 CHECKED BY: MTD/FMA