

NUMBER

REVISION

57R054.3	417+15.26	II-C-A	30'-0"	407.71			
				487.71	14'-9"	12'-6"	297.5

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

① After adjustments to level truss and insure adequate vertical clearance, all lop and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Note:

DATE

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	-
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	30,0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C~A	Foot	
OVERHEAD SICN STRUCTURE WALKWAY, TYPE A	Foot	28'-0"
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	8.4

DESIGN: AASHTO Luminaires and Tra

CONSTRUCTION: C Specifications for I Provisions. ("Stan

LOADING: 90 M.P.

WALKWAY LOADING

DESIGN STRESSE Field Units f'c = 3,500 p.s.i. fy = 60,000 p.s.i.

WELDING: All weld accordance with cu and the Standard S

MATERIALS: Alum ASTM A53 Grade E minimum yield of 46 diameter shall be a All Structural Ste Gr. 50W*. Stainles 302 or 304, or and The steel pipe ar longitudinal Charpy

FASTENERS FOR A requirements of A lock nuts. Thread ASTM A449, AST Bolts and lock nuts A307. All bolts of must have nylon or Type 302 or 304, studs are used. H IDOT Standard Spe testing of bolts will

U-BOLTS AND EYE, 304, 304L, 316 or acceptable to the E to ASTM A307 with stainless steel flat each U-Bolt and Ey

GALVANIZING: All fabrication in accor

ANCHOR RODS: Sh (CVN) energy of 15

CONCRETE SURFAC ground line at each accordance with the

REINFORCEMENT B accordance with the

 If M270 Gr. 50W (M222) steel is particular to be used shall approved by the Engineer as suitable galvanizing and welding.

	7/01/2	2006

= 3/2 = P:/E

DATE NAME SCALE NAME

> PLOT PLOT USER

OSC-A-1

				(COI	VTRAC1		
		F.A.I. RTE.	SECTIO		С	OUNTY	TOTAL	SHEET
		57	(X1-6-	2)HBK	-L	LLIAMSON		118
		STA.	AD 07CT NO	a 171 - 7		STA. FED. AID	DDO ICO	T
	l	reu, KU	40 UISI, NU,	a hrri	NUIS	TED. AID	PRUJEC	1
GENERA Standard Specifications of affic Signals, ("AASHTO			rts for	High	iway	Signs,		
Current (at time of letting) Road and Bridge Construc ndard Specifications")	Illinois Departi	ment						
H. WIND VELOCITY								
G: Dead load plus 500 lb	s. concentrated	l live	load.					
S:								
(reinforcement)								
ds to be continuous unles. urrent AWS D1.1 and D1.2 Specificiations.								
ninum Alloys as shown thr B with a minimum yield of 6,000 p.s.i. If A500 pip as detailed and wall thickn ieel Plates and Shapes sh ss steel for shims, sleeve nother alloy suitable for e. und stiffening ribs at the V-Notch (CVN) energy of	35,000 p.s.i., be is substituted ess greater tha all conform to a s and handhole xterior exposure base plate for	or A. 1 for 2n or AASH cove e and the c	500 Gri A53, † equal † TO M27 rs shali accept column s	ade E hen 1 'o A5 'O Gr ' be table shall	3 oi the 53. 53. 53. 53. AST to hav	r Ċ with outside 6, Gr. E 7M A240 the Eng e a mini	a 50 or 0, Type 11neer. 11num	9
ALUMINUM TRUSSES: All AASHTO M164 (ASTM A32: ded studs for splices (if i M A193, Grade B7, or ap, s not required to be high and lock nuts must be hot steel inserts. A stainles , is required under both i digh strength bolt installath ecifications for Road and Il not be required.	5), or approved Members interfe oroved atternate strength must dip galvanized ss steel flat wa head and nut or ion shall confor	l alter ere) n satist satist per sher r und m to	nate, a nust said f must fy the r AASHT conford er both Article	ind m tisfy have requir 0 M2 ming nuts 505	nust the man ceme 32. 10 .04	have m require tching lo ents of The l ASTM A here thr- (f) (2)a	atching ments Dck nut ASTM Ock nu 240 eaded Lof th	of s, ts e
EBOLTS: U-Bolts and Eye 316L, Condition A, cold is Engineer. All nuts for U- h nylon or steel inserts a washer conforming to AS yebolt lock nut.	finished stainles Bolts and Eyeb nd hot dip galve	ss ste polts anizeo	eel, or must be 1 per A	an eo e loci NASH	quiv k nu TO	alent ma its equiv M232.	nterial Valent A	
l Steel Grating, Plates, Sh rdance with AASHTO M111.					Gal	vanized	after	
hall conform to AASHTO i lbft. at 10° F.	M314 Gr. 55 wi	th a	minimun	n Cho	ır py	V-Notc	h	
CES: All concrete surfac h foundation shall be cleai e Standard Specifications.	ned and coated						final	
BARS: Reinforcement Bai ne Standard Specifications.		E) sh	all be e	роху	00	oted in		
proposed,								
ll first be ble for f								
	ILLINOIS	DEPA	RTMENT	OF	TRA	NSPORT	ATION	
	GEN	ERAL	. PLA	N &	E		ION	_
	ALUMI		TRUS			TEEL	POST	-
		MOR	GAN AVENU	IE INTE	RCHA	NGE		

MORGAN AVENUE INTERCHANCE FAI ROUTE 57 WITH FAU ROUTE 9718 WILLIAMSON COUNTY

SHEET 1 OF 9

SCALE: N/A

DATE: 3-19-2007