

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	DATE
11/24/11	GOBE	271	134	

SHEET NO. 1  
SHEETS 5

GENERAL NOTES

**SPECIFICATIONS:**  
**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, dated January, 1982, 1985, and 1988.  
**CONSTRUCTION:** Standard Specifications for Road and Bridge Construction, State of Illinois, (dated October, 1983) Supplemental Specifications for Road and Bridge Construction, Standard Specifications for Traffic Control Items (dated Feb., 1984) and Special Provisions, (Apr. 1, 1987)

**MINIMUM CLEARANCE:** Vertical Roadway Clearance = 17'-3" (All Obstructions)

**LOADING:** 80 MPH WIND VELOCITY PLUS 30% GUST FACTOR  
**WIND LOADING:** 35 psf normal to Sign Panel Area as shown below in Wind Loading Diagram plus 48 psf 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.  
**GLASS & CONCRETE** shall be used throughout.  
**STRUCTURAL STEEL:** All material for structural chords, verticals, or chord splices shall conform to either ASTM A500, Grade C, AASHTO M222 or AASHTO M223, Grade 50 and shall meet the longitudinal CVN requirements of 15 ft. lbs at 40° F.  
 All material for the posts shall conform to AASHTO M222 or M223, Grade 50 and shall meet the longitudinal CVN requirements of 15 ft. lbs at 40° F.

**HIGH STRENGTH BOLTS** shall conform to the requirements of AASHTO M164.  
**STRUCTURAL SHAPES and PLATES** shall conform to the requirements of AASHTO M223, Grade 50, or M222, unless otherwise specified.

**PAINTING:** The zinc-silicate and vinyl paint system shall be used for shop and field painting of all structural steel. Exterior surfaces of all structural steel that are painted with the high-build vinyl paint shall receive one coat of vinyl enamel. Paint system, including field coat, for the walkway gratings may be done in the shop or just prior to erection. Chords, verticals and posts will require painting on exterior surfaces only.

**WELDING:** All welding shall be in accordance with Article 507.04(s) of the Standard Specifications for Road and Bridge Construction.

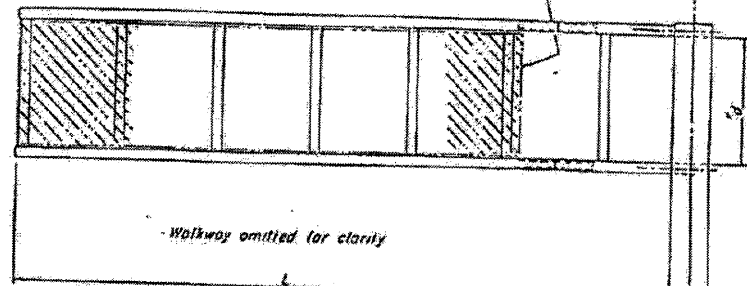
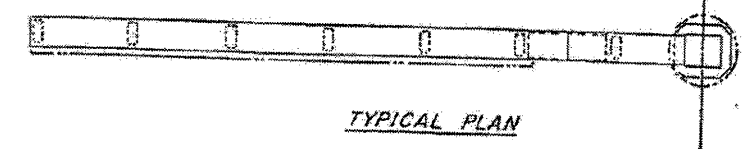
**NOTE:** PRIOR TO INSTALLING FOUNDATIONS AND ORDERING STRUCTURE FABRICATION, THE PROPOSED LOCATIONS SHALL BE VERIFIED TO ENSURE THAT THERE ARE NO CONFLICTS WITH UTILITIES, ETC. ELEVATIONS ARE ESTIMATES BASED ON AVAILABLE DATA.

TOTAL BILL OF MATERIAL

OVERHEAD SIGN STRUCTURE_CANTILEVER (SPECIAL)	Lin Ft	112.5
OVERHEAD SIGN STRUCTURE WALKWAY_PIPE-S (SPECIAL)	Lin Ft	67.5
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yds	22.73

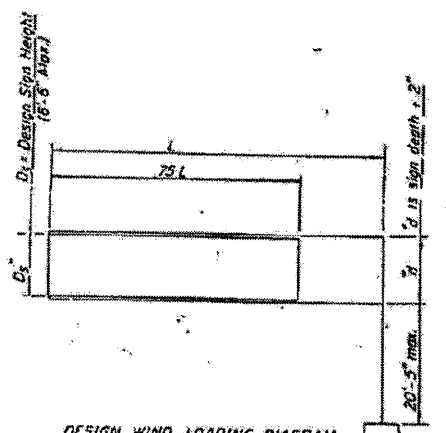
OVERHEAD SIGN STRUCTURES\_CANTILEVER  
GENERAL PLAN & ELEVATION

FOR INFORMATION ONLY



Structure No	Station	Elev A	Dim D	D <sub>2</sub>	D <sub>1</sub>
CS-1	251+00 SB	734.5'	20'-0"		12'-2"
CS-3	197+00 SB	749.25'	20'-0"		12'-2"
CS-4	167+00 SB	728.0'	20'-0"		12'-2"

Elev. A = Elevation of Highest Point of Roadway under Sign.



Structure No	Station	L	a	Camber	No of Panels (N)	Panel Lgt (P)	Chord Size	Vertical Size
CS-1	251+00 SB	37'-6"	12'-2"	4"	7	4'-7 1/2"	75#Bx6x1/2	75#Ax6x1/2
CS-3	197+00 SB	37'-6"	12'-2"	4"	7	4'-7 1/2"	75#Bx6x1/2	75#Ax6x1/2
CS-4	167+00 SB	37'-6"	12'-2"	4"	7	4'-7 1/2"	75#Bx6x1/2	75#Ax6x1/2

EXAMINED \_\_\_\_\_  
 PASSED \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 SPECIAL

\*F.A.I. 290 (INTERSTATE 290)  
 \*F.A.U. 342 (IL ROUTE 53)

STATE OF ILLINOIS  
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EXISTING CANTILEVER PLANS  
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2011-024-SG	DuPAGE/COOK	132	132J
CONTRACT NO. 60P24			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. 1 OF 5 SHEETS STA. TO STA.

USER NAME = 23lukb	DESIGNED - DJS	REVISED -
PLOT SCALE = 1:8000 1/4" = 100'	DRAWN - UKB	REVISED -
PLOT DATE = 3/22/2012	CHECKED - RWL	REVISED -
	DATE - 12-13-11	REVISED -

CONTRACT NO. 60P24 BY BAXTER & WOODMAN, INC. STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-00121 - EXPIRES 4/30/2013 ...PLOTS\00051-NO-27-B&W.DWG ...STRADDLE ROAD PROJECT\PROJECTS\CRYSTAL LAKE\DOT\UN051-10-DESIGN\NO-27-11-53 SIGNING\CADD-SURVEY\URW\UN051-10-27-WFS-SH15.DGN

