

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

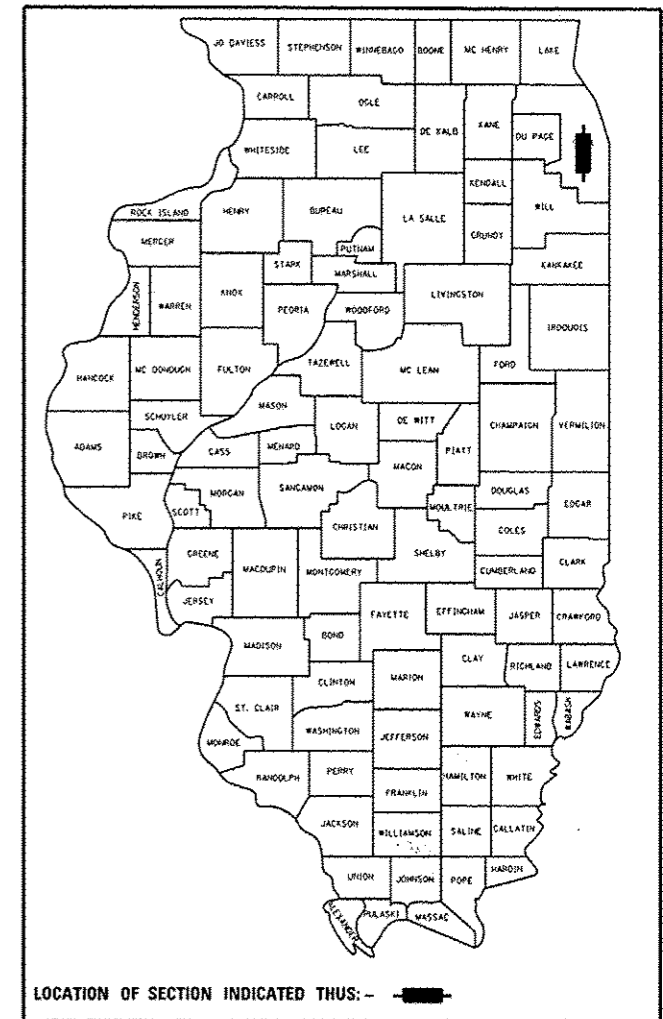
**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 57: I-57
OVER CAL-SAG CHANNEL
SECTION 2013-025-1
BRIDGE JOINT REPAIR
COOK COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2013-025-1	COOK	23	1
ILLINOIS		CONTRACT NO. 60W60		

*23 + 6 = 29

D-91-343-13



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

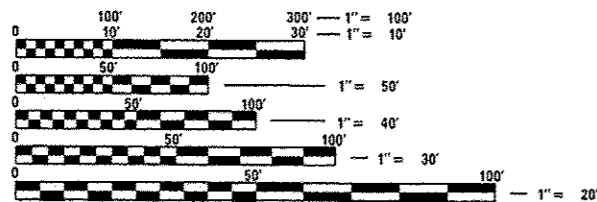
THIS IMPROVEMENT IS LOCATED
IN THE CITY OF BLUE ISLAND

TRAFFIC DATA

2012 ADT = 113,000
SPEED LIMIT = 55 MPH

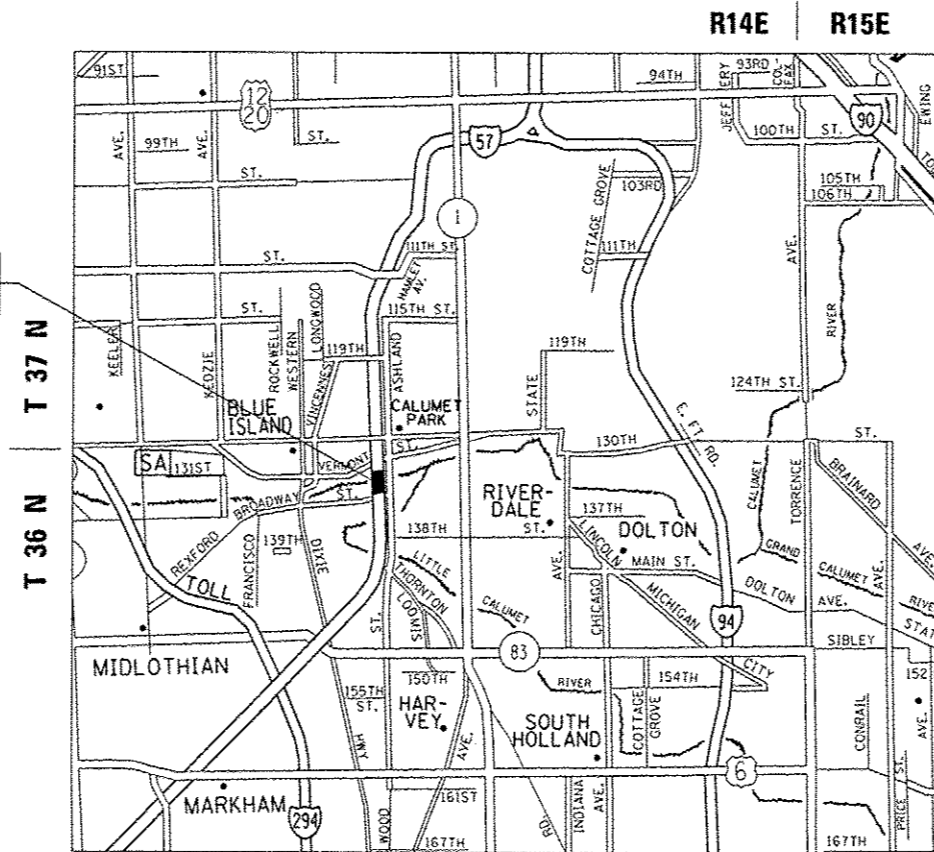
C-91-343-13

LOCATION OF IMPROVEMENT
SN 016-0065, -0064



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



CALUMET TOWNSHIP

GROSS & NET LENGTH = 491.9 FT. = 0.093 MILE

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: ISSAM RAYYAN

CONTRACT NO. 60W60

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 22, 2013

John F. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER


October 4, 2013
John D. Baranzelli, PE, Jr.
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2013
Omer Osman, PE, Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Rev. 10-29-13

INDEX STANDARDS

- 1 TITLE SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-15 BRIDGE REPAIR PLANS (SN 016-0064; -0065)
- 16 TYPICAL CROSS-SECTION
- 17-18 STAGING PLANS
- 19 PAVEMENT MARKING PLANS
- 19A-19D ALTERNATE ROUTE DETAILS
- 19E-19F TEMPORARY SIGN SUPPORT DETAIL 
- 20 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTILANE WEAVE (TC-09)
- 21-22 MULTILANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)
- 23 SAND MODULE IMPACT ATTENUATORS (TC-17)

STATE STANDARDS

- 442001 - 04 CLASS A PATCHES
- 701400 - 06 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401 - 07 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 635011 - 02 REFLECTOR MARKER & MOUNTING DETAILS
- 701446 - 04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901 - 02 TRAFFIC CONTROL DEVICES
- 704001 - 07 TEMPORARY CONCRETE BARRIER
- 643001 - 01 SAND MODULE IMPACT ATTENUATORS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF BLUE ISLAND.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT REGINA COOPER, AREA TRAFFIC FIELD ENGINEER AT (847) 705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

HMA SURFACE COURSE N70 WILL BE USED TO RESURFACE RUMBLE STRIP AREAS FOR STAGING PURPOSES.


HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) (2")	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SOYD/IN.

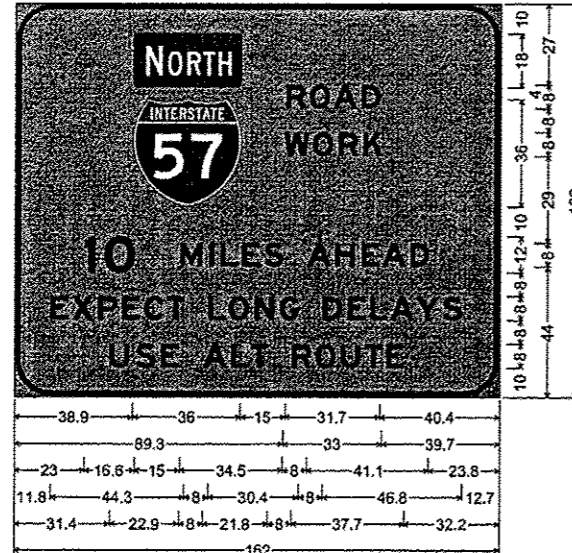
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-28" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTE:
CONTRACTOR SHALL MILL AND RESURFACE EXISTING RUMBLE STRIP FOR TRAFFIC STAGING OF WORK

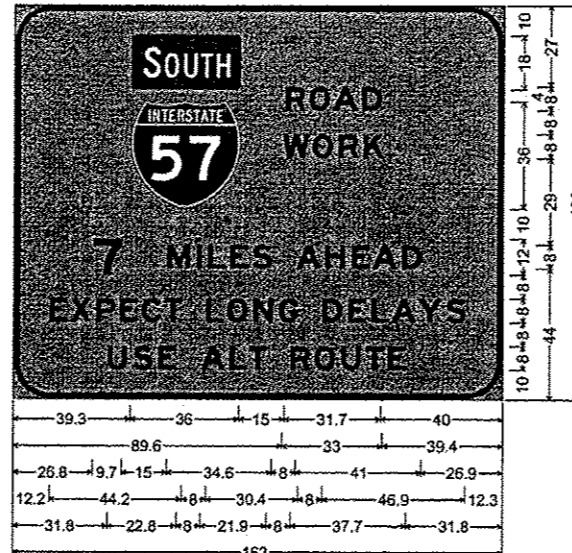
 Revised BH 10/22/13

FILE NAME *	USER NAME * hardnetbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-57 OVER CAL-SAG CHANNEL INDEX OF SHEET, STATE STANDARDS & GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\hardnetbr\0345314\0345314.dgn	0345314-ah1-plan.dgn	DRAWN -	REVISED -			57	2013-025-1	COOK	23	2	
PLOT SCALE * 100.0000' / in.		CHECKED -	REVISED -			SCALE: 1"=50'		STA. TO STA.		CONTRACT NO. 60W60	
PLOT DATE * 10/22/2013		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

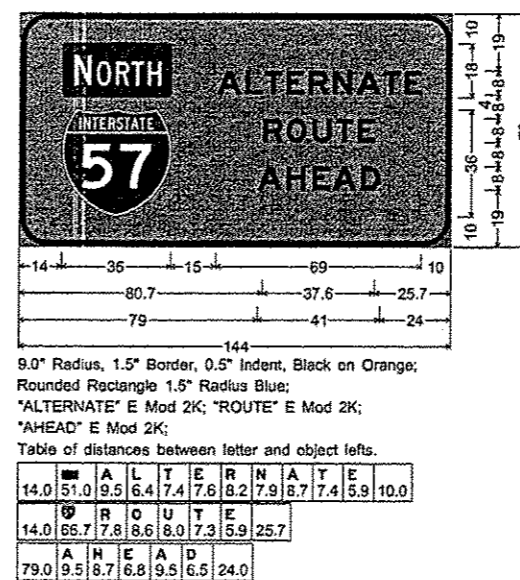
TEMP INFO #E



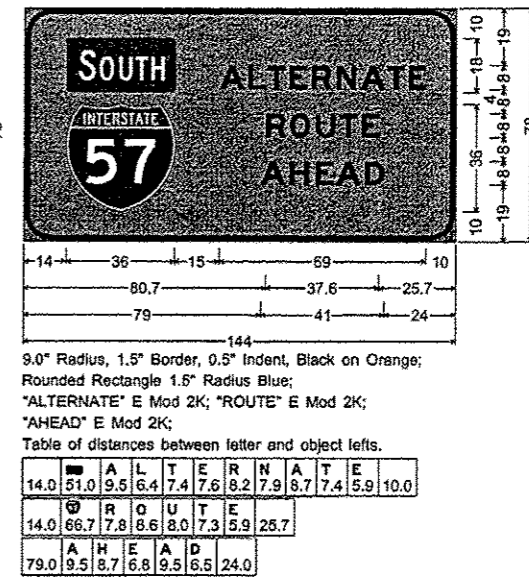
TEMP INFO #F



TEMP INFO # 1N



TEMP INFO # 1S



** SIGN DIMENSIONS ARE IN INCHES

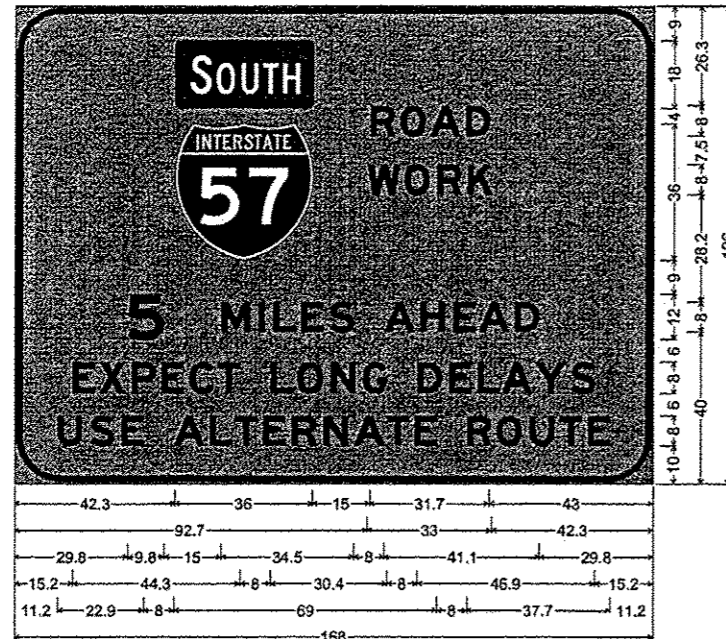
SIGN ID	WIDTH (FT)	HEIGHT (FT)	AREA (SQ FT)	MOUNTING TYPE	BACKGROUND TYPE/COLOR	LEGEND/BORDER TYPE/COLOR
E	13.5	11.0	148.5	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK
F	13.5	11.0	148.5	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK
1N	12.0	6.5	78.0	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK
1S	12.0	6.5	78.0	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK



ADDED SHEET 10 /22/ 13 BH

FILE NAME *	USER NAME * hardnetbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-57 OVER CAL-SAG CHANNEL ALTERNATE ROUTE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\hardnetbr\0345314\034313-ah1-pjen.dgn	DRAWN -	REVISED -	57			2013-025-1		23	19C	
PLOT SCALE * 100.0000 / / in.	CHECKED -	REVISED -	CONTRACT NO. 60W60							
Default	PLOT DATE * 10/22/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

TEMP INFO #C1



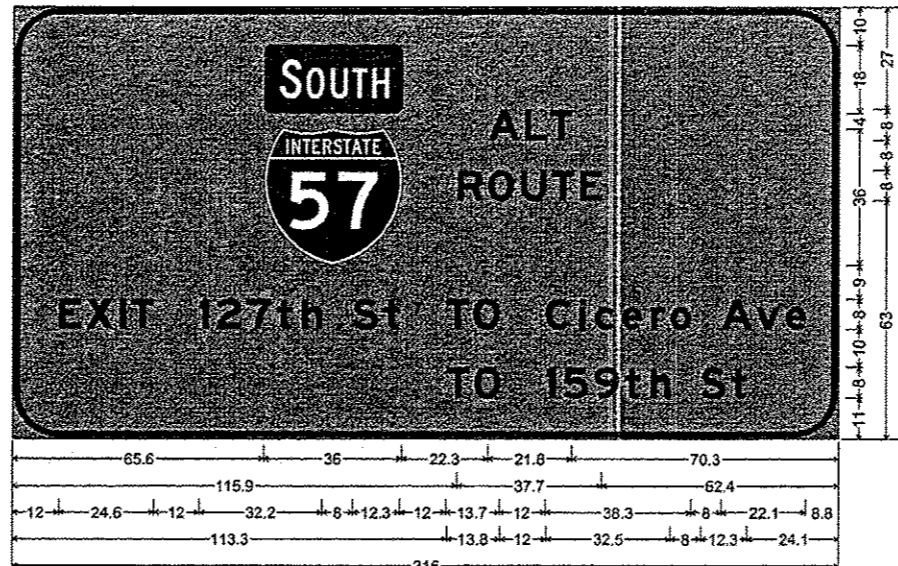
12.0" Radius, 1.5" Border, 0.5" Indent, Black on Orange;
 Rounded Rectangle 1.5" Radius Blue;
 "ROAD" E Mod 2K; "WORK" E Mod 2K; "5" E Mod 2K; "MILES AHEAD" E Mod 2K;
 "EXPECT LONG DELAYS" E Mod 2K; "USE ALTERNATE ROUTE" E Mod 2K;
 Table of distances between letter and object lefts.

42.3	51.0	7.9	7.8	9.5	6.5	43.0
42.3	50.4	9.6	8.6	8.2	6.6	42.3
29.8	24.8	9.6	3.9	7.2	7.3	14.5
15.2	7.1	8.6	7.9	7.3	7.5	13.9
11.2	8.5	8.5	13.9	9.5	6.4	7.4

** SIGN DIMENSIONS ARE IN INCHES

SIGN ID	WIDTH (FT)	HEIGHT (FT)	AREA (SQ FT)	MOUNTING TYPE	BACKGROUND TYPE/COLOR	LEGEND/BORDER TYPE/COLOR
C1	15.0	10.5	157.5	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK
C2	18.0	9.5	171.0	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK
D	11.5	11.0	126.5	GROUND MOUNTED	ZZ SHEETING / FLUORESCENT ORANGE-3M 4084	ZZ SHEETING / BLACK

TEMP INFO #C2

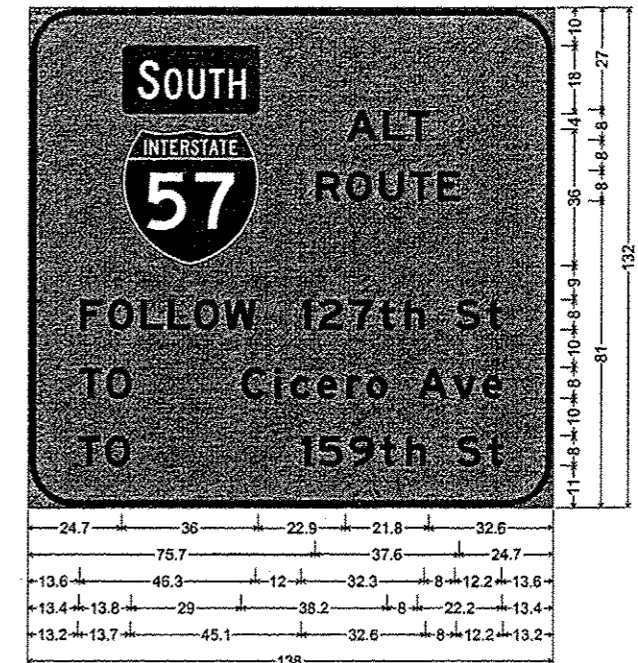


12.0" Radius, 1.5" Border, 0.5" Indent, Black on Orange;
 Rounded Rectangle 1.5" Radius Blue;
 "ALT" E Mod 2K; "ROUTE" E Mod 2K; "EXIT" E Mod 2K; "127th St" E Mod 2K; "TO" E Mod 2K;
 "Cicero Ave" E Mod 2K; "TO" E Mod 2K; "159th St" E Mod 2K;
 Table of distances between letter and object lefts.

65.6	58.3	9.5	6.4	5.9	70.3
65.6	50.3	7.9	8.6	7.9	7.4
12.0	7.0	8.6	3.1	17.9	4.4
113.3	7.1	18.7	4.4	8.1	8.0

1 ADDED SHEET 10 /22/ 13 BH

TEMP INFO # D



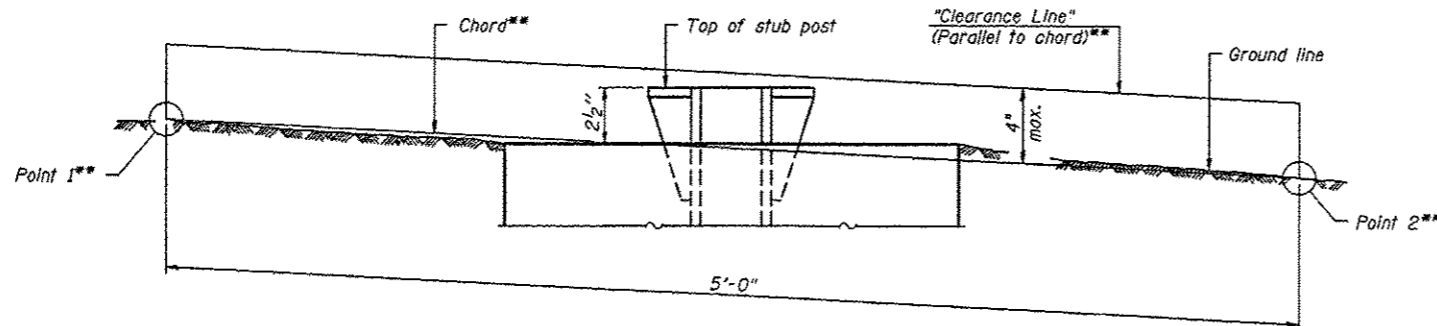
12.0" Radius, 1.5" Border, 0.5" Indent, Black on Orange;
 Rounded Rectangle 1.5" Radius Blue;
 "ALT" E Mod 2K; "ROUTE" E Mod 2K; "FOLLOW" E Mod 2K;
 "127th St" E Mod 2K; "TO" E Mod 2K; "Cicero Ave" E Mod 2K;
 "TO" E Mod 2K; "159th St" E Mod 2K;
 Table of distances between letter and object lefts.

24.7	58.9	9.5	6.4	5.9	32.6
24.7	51.0	7.8	8.6	8.0	7.3
13.6	7.3	8.6	7.2	6.9	7.8
13.4	7.1	35.7	8.7	4.1	7.0
13.2	7.0	51.8	4.4	8.2	8.0

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃
	Diameter	Minimum Depth	Concrete (cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs.															
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	5/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	5/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	5/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	5/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 1/2"	5/8"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	5/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

⚠ Added Sheet BH 10/22/13

BAW-A-2

6-1-12

(Sheet 2 of 2)

FILE NAME *	USER NAME *	DESIGNED -	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	SHEET NO. OF SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISOR				57	2013-026-I	Cook	23	19F
PLOT SCALE *		DRAWN -	REVISOR				CONTRACT NO. 60W60				
PLOT DATE *		CHECKED -	REVISOR				ILLINOIS FED. AID PROJECT				