

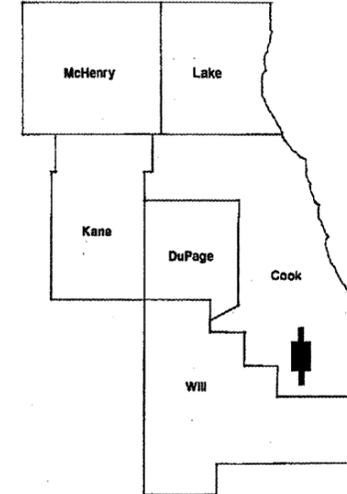
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 57	0203-100 1HB-I	COOK	11	1

FOR INDEX OF SHEETS SEE SHEET 2

CONTRACT NO. 60J19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT ONE
PROPOSED HIGHWAY PLANS

D-91-206-10

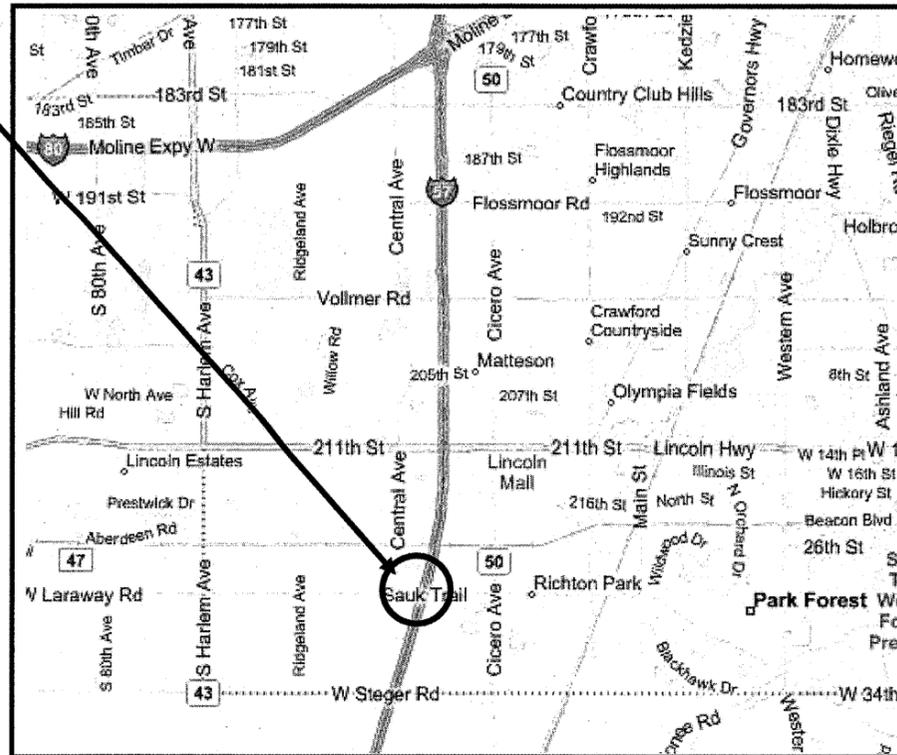


LOCATION OF IMPROVEMENT INDICATED THUS: 

IMPROVEMENT IS LOCATED IN THE
VILLAGE OF RICHTON PARK

FAI 57: I-57
AT SAUK TRAIL RD
SECTION 0203-100 1HB-I
BRIDGE REPAIR
COOK COUNTY
C-91-206-10

LOCATION OF
IMPROVEMENT
SN 016-0575



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED: DECEMBER 15, 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
JANUARY 29, 2010
Scott E. Stitt P.E.
ACTING ENGINEER OF DESIGN AND ENVIRONMENT
JANUARY 29, 2010
Christine M. Reed
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

TRAFFIC DATA:

I-57

POSTED SPEED LIMIT = 65 MPH
2007 ADT = 63,900

SAUK TRAIL RD

POSTED SPEED LIMIT = 40 MPH
2006 ADT = 28,500

PROJECT ENGINEER **ROBERT BORO (847) 705-4178**
PROJECT MANAGER **KEN ENG**

CONTRACT NO. 60J19

RICH TOWNSHIP

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 57	0203-100 1HB-I	COOK	11	2

CONTRACT 60J19

INDEX OF SHEETS

STATE STANDARDS

		STANDARD NO	DESCRIPTION
1	TITLE SHEET		
2	INDEX OF SHEETS, STATE STANDARDS	701400-04	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
3	GENERAL NOTES	701401-05	LANE CLOSURE, FREEWAY/EXPRESSWAY
4	SUMMARY OF QUANTITIES	701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
5 - 6	BRIDGE REPAIR PLAN SHEETS	701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
7	TEMPORARY GUIDE SIGN DETAIL		
8	ELECTRIC CONNECTION TO SIGN STRUCTURE (BE-602)	701801-04	TRAFFIC CONTROL AND PROTECTION, SIDEWALK CLOSURE
9	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-9)	701901-01	TRAFFIC CONTROL DEVICES
10	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)		
11	ARTERIAL ROAD INFORMATION SIGN (TC-22)		

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 57	0203-100 1HB-I	COOK	11	3

CONTRACT NO: 60J19

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 HOURS NOTIFICATION IS REQUIRED).

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 FOR EXPRESSWAYS AND (847) 705-4470 FOR ARTERIALS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UPMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECTION.

THE "ARTERIAL ROAD INFORMATION SIGN" (TC-22) DETAIL IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.

USE HIGHWAY STANDARD 701601 FOR LANE CLOSURE WHEN WORKERS ARE PRESENT. BARRELS WITH STEADY BURN LIGHTS MAY BE PLACED IN THE SHOULDER AREA FOR NIGHT AND WEEKEND TRAFFIC CONTROL WHEN WORKERS ARE NOT PRESENT. A BARRICADE OR DRUM WITH FLASHING LIGHTS SHALL BE PLACED ON THE SIDEWALK ON EITHER SIDE OF TEMPORARY SLAB SUPPORT SYSTEM. COST INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701601.

THE CONTRACTOR SHALL COVER ALL OPEN HOLES WHEN WORKERS ARE NOT PRESENT; COST INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701801.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 57	0203-100 1HB-I	COOK	11	4

CONTRACT 60J19

CONSTRUCTION TYPE CODE: SFTY - 2A			
<i>URBAN 100% STATE</i>			
CODE NO.	ITEMS	UNITS	TOTAL QUANTITIES <i>SFTY-2A</i>
50102400	CONCRETE REMOVAL	CU YD	0.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	0.5
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	12490
50501110	STRUCTURAL STEEL REMOVAL	POUND	12490
67100100	MOBILIZATION	L SUM	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4
X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1
X8040105	ELECTRIC CONNECTION TO SIGN STRUCTURE (SPECIAL)	EACH	1
X8040150	REMOVAL ELECTRICAL CONNECTION TO SIGN STRUCTURE	EACH	1
XX002293	REMOVE, STORE, AND RE-ERECT OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUM	1
Z0073351	TEMPORARY SLAB SUPPORT SYSTEM	L SUM	1

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Diaphragm connection holes shall be $\frac{15}{16}$ " ϕ for $\frac{3}{4}$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision "Cleaning and Painting New Metal Structures".

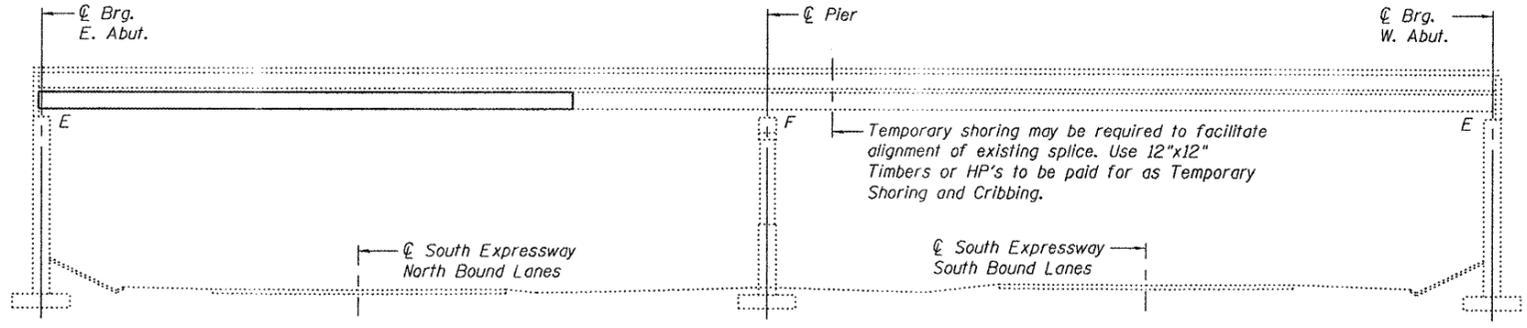
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

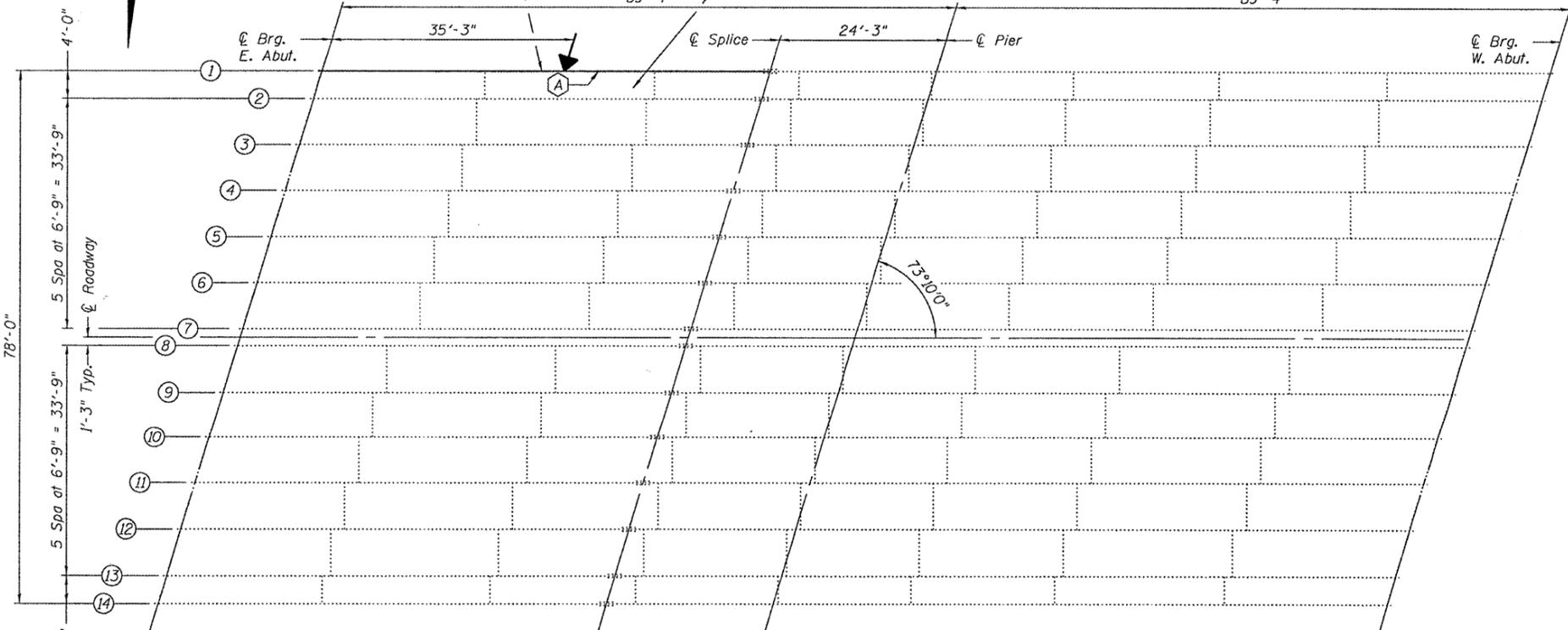
The Contractor must be careful not to damage the existing bearing to be reused while removing the beam section to be replaced.



ELEVATION

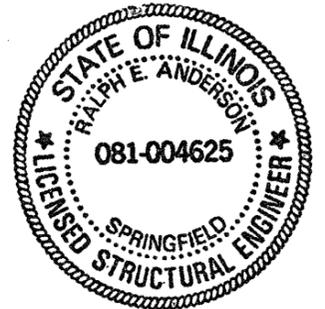
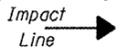
Existing sign structure to be removed, stored and reinstalled. Cost included with Remove, Store and Re-Erect Overhead Sign Structure (Bridge Mounted)

Permanent Protective Shield in this area to be removed, stored and reinstalled. Cost included with Structural Steel Removal.



PLAN

(A) Remove and Replace existing beam section.



DESIGNED: William J. Holloway January 22, 2010
 CHECKED: William J. Holloway EXAMINED: Carl R. ...
 DRAWN: ... PASSED: Ralph E. Anderson
 CHECKED: ATW VSTW

Expires: November 30, 2010

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.5
Concrete Superstructure	Cu. Yd.	0.5
Furnishing and Erecting Structural Steel	Pound	12,490
Structural Steel Removal	Pound	12,490
Temporary Slab Support System	L.S.	1
Temporary Shoring and Cribbing	L.S.	1
Remove, Store and Re-Erect Overhead Sign Structure-Bridge Mounted	Each	1

PLAN AND ELEVATION
SN 016-0575

SHEET NO. 1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57	0203-1001 HB	Cook	11	5
2 SHEETS	CONTRACT NO. 60J19				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 57	0203-100 1HB-I	COOK	11	7

CONTRACT NO: 60J19



6.0" Radius, 1.3" Border, White on Green;
 "EXIT" E Mod 2K; "339" E Mod 2K; "Sauk" E Mod 2K; "Trail" E Mod 2K;
 Standard Arrow Custom 22.3" X 13.5" 45°;

Table of letter and object lefts.

E	X	I	T	3	3	9
22.2	29.2	37.9	40.9	54.8	64.4	74.5

1.2				
S	a	u	k	↗
11.4	23.7	36.5	49.2	65.1

T	r	a	i	l
13.3	25.1	32.9	45.6	52.8

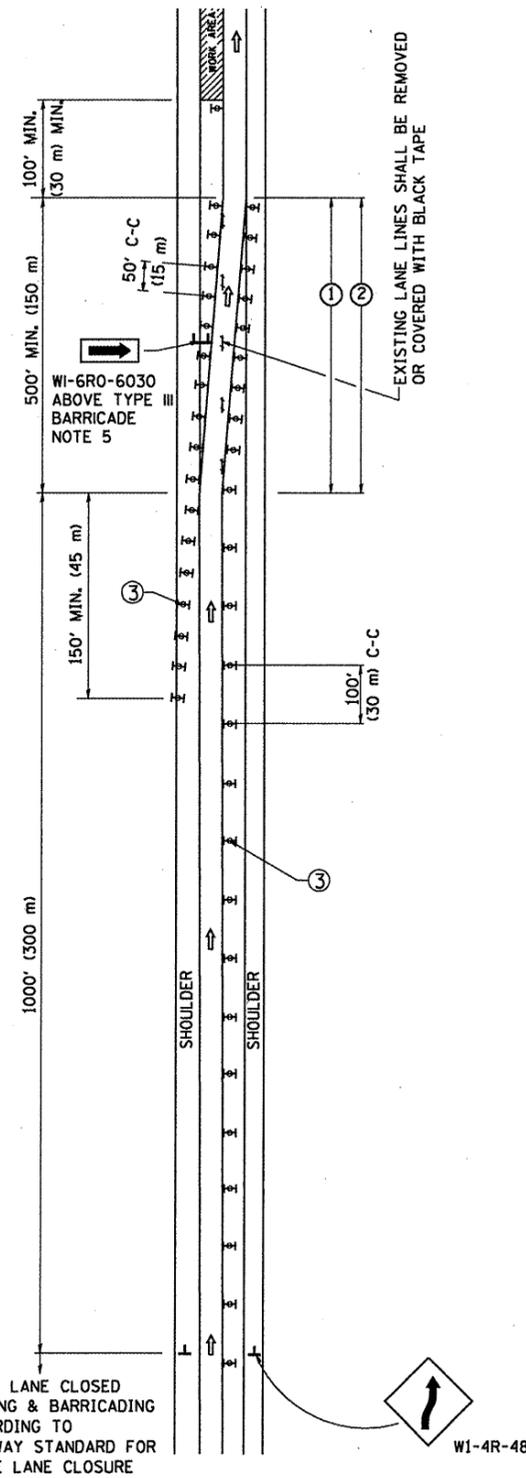
NOTES

THE COST OF THE "TEMPORARY GUIDE SIGN" IS INCLUDED IN THE COST OF "TEMPORARY INFORMATION SIGNING".

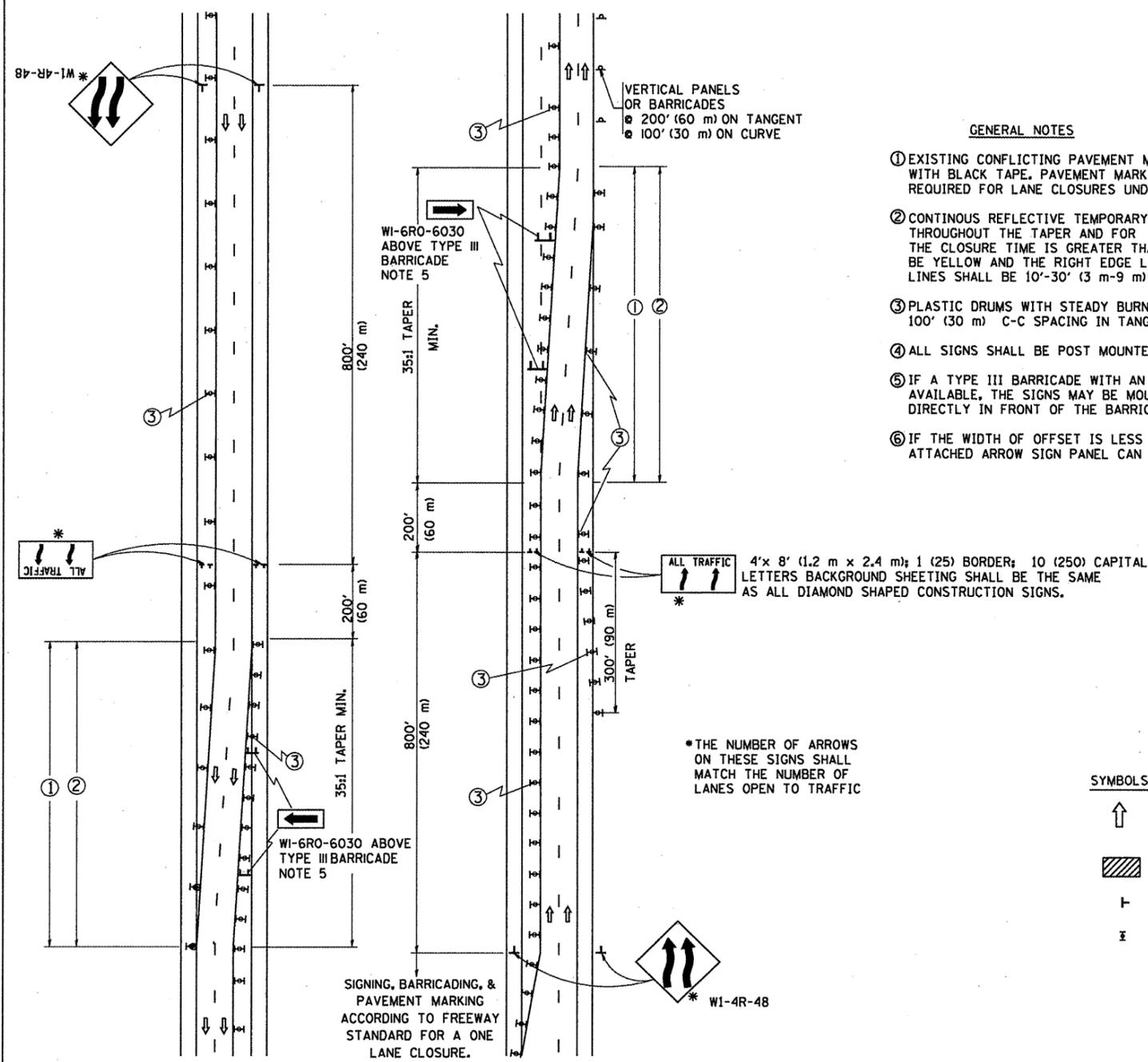
ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY GUIDE SIGN DETAIL

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- ⑥ IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

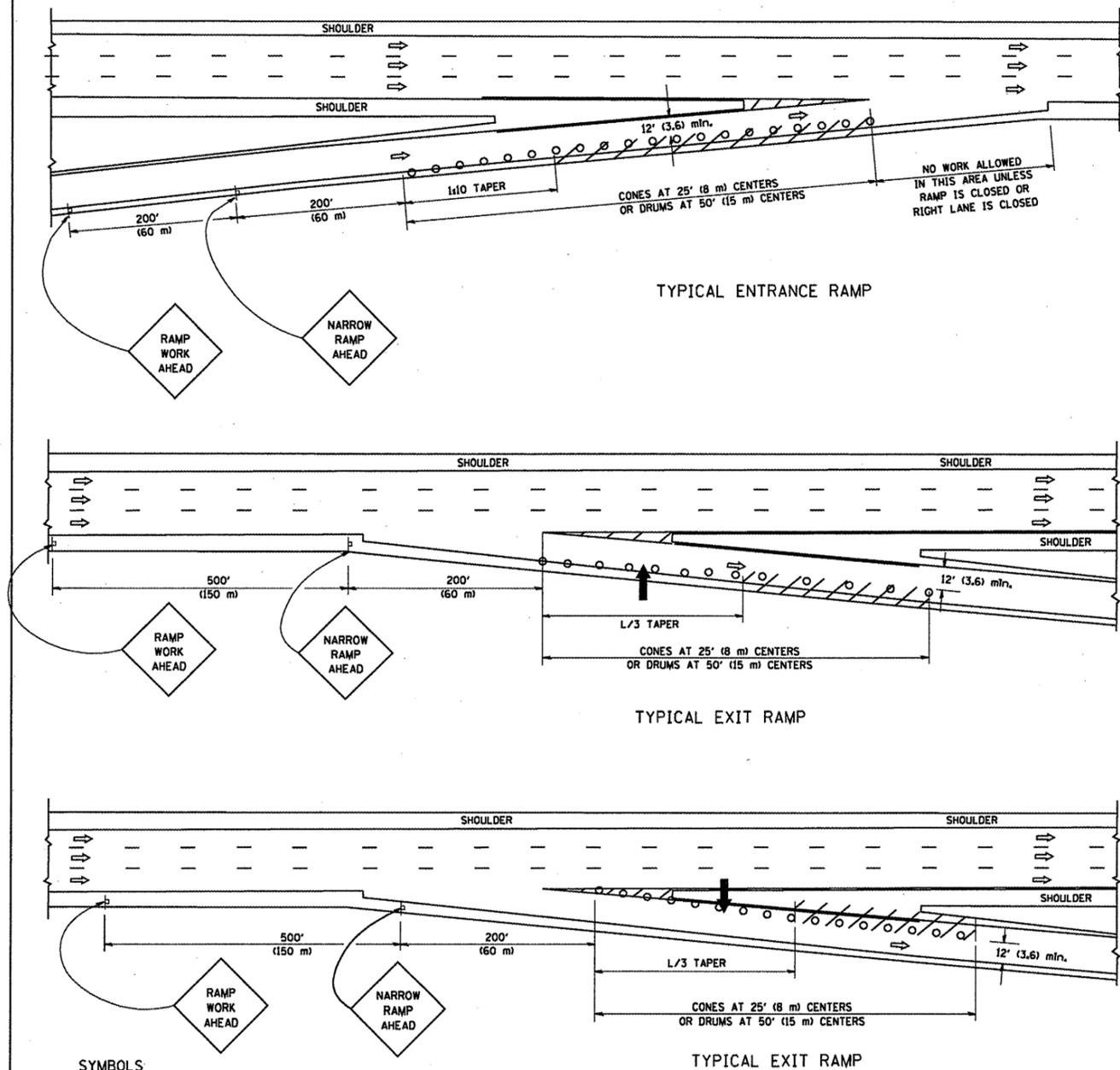
SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ┆ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊘ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\ta09.dgn	USER NAME = geglanobt	DESIGNED - DWS	REVISED - DWS 11-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.I. RTE. 57	SECTION 0203-100 IHB-I	COUNTY Cook	TOTAL SHEETS 11	SHEET NO. 9
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - JAF 01-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TC-09	CONTRACT NO. 60519			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - JAF 02-06					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE - 02-87	REVISED - SPB 01-07									

PARTIAL RAMP CLOSURE DETAILS



SYMBOLS

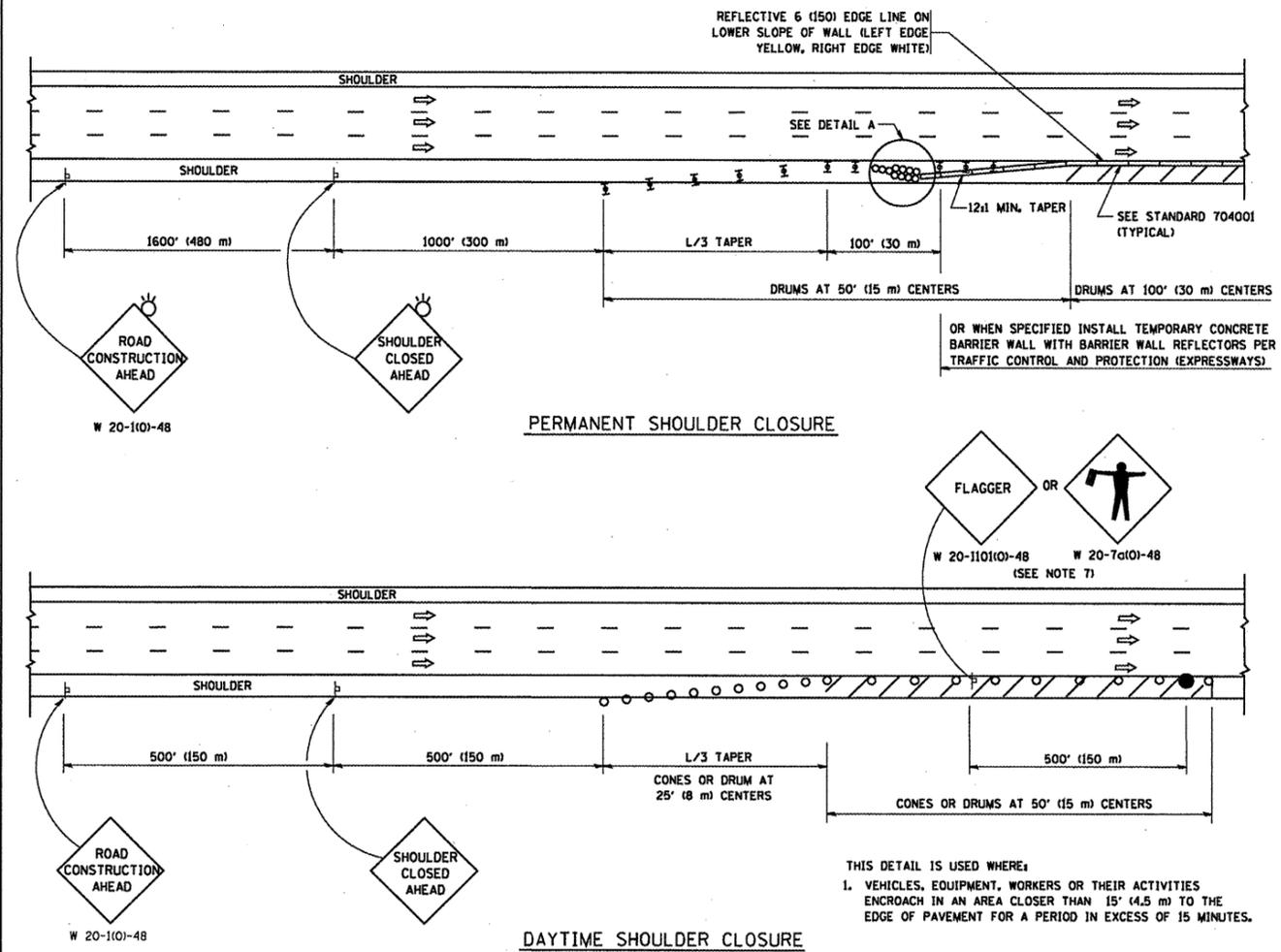
- ➔ ARROWBOARD
- ▨ WORK AREA
- ┆ SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- ⊕ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

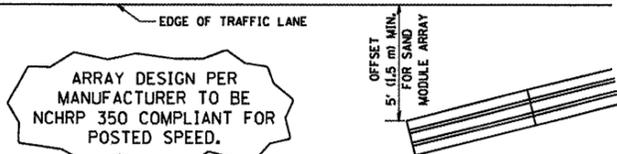
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC $L=0.65(W/S)$ ENGLISH $L=(W/S)$
W = WIDTH OF OFFSET IN FEET (METERS)	S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

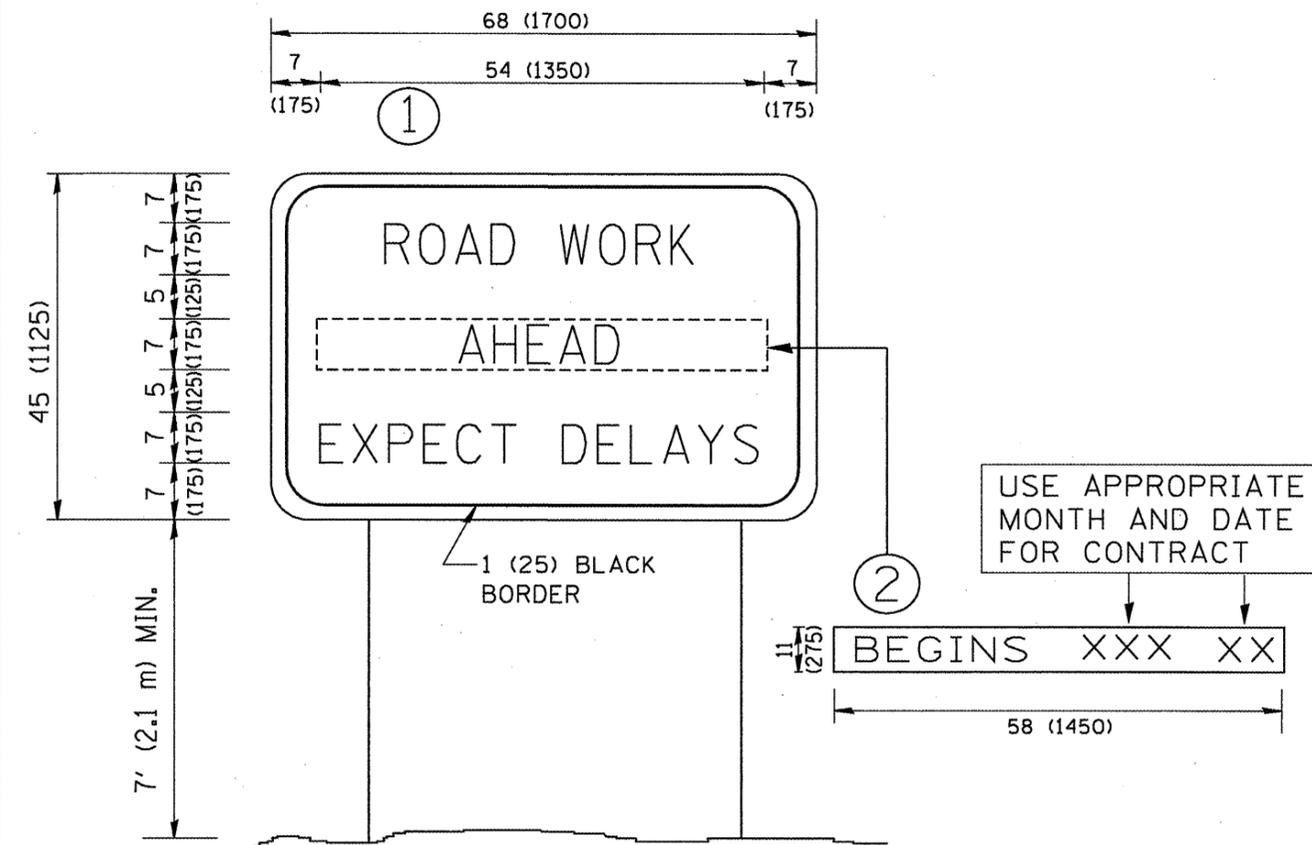
FILE NAME = W:\diststd\22x34\17.dgn

USER NAME = gaglianob	DESIGNED -	REVISED - J.A.F. 12-02
PLOT SCALE = 50.0000' / IN.	DRAWN - D.W.S.	REVISED - 04-03
PLOT DATE = 1/4/2008	CHECKED -	REVISED - J.A.F. 12-06
	DATE - 11-96	REVISED - S.P.B. 01-07

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.T. RTE. 57	SECTION 0203-100 14B-I	COUNTY COOK	TOTAL SHEETS NO. 11	SHEET NO. 10
TC-17			CONTRACT NO. 60J19	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\distato\22x34\te22.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	10203-1001HB-I	COOK	11	11
TC-22			CONTRACT NO. 60J19	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				