FAU RTE.	SECTION	TOTAL SHEETS	SHEET NO.
2678	3025-I-1	10	1
	ILLIN	CONT NO.	60J70

D–91–260–10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAU 2678 / ELMHURST ROAD
SECTION 3025–I–1
OVER HIGGINS CREEK (0.09 MI. S. OF IL 62)
BRIDGE DECK REPAIRS AND OVERLAY
PROJECT NUMBER: M-2678(007)
COOK COUNTY
C–91–260–10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

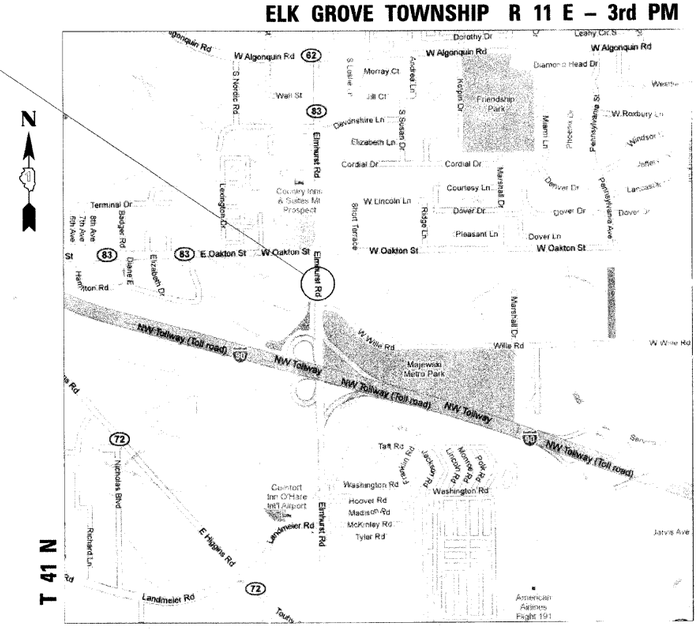
DESIGN DESIGNATION

MINOR ARTERIAL (URBAN)
ADT 33,500 (2006)
SPEED LIMIT 45 MPH

IMPROVEMENT LOCATED IN ELK GROVE VILLAGE

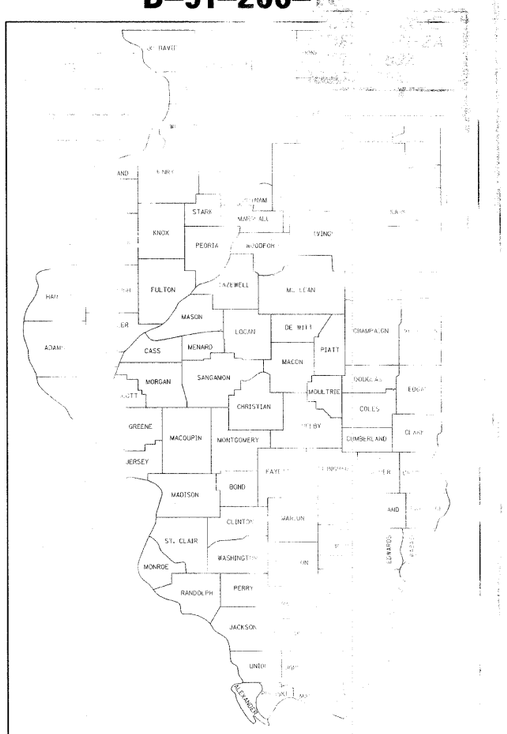
ELK GROVE TOWNSHIP R 11 E – 3rd PM

IMPROVEMENT LOCATION
ELMHURST ROAD OVER
HIGGINS CREEK
STRUCTURE NO: 016–0677



LOCATION MAP 0 1000' 2000

GROSS AND NET LENGTH OF IMPROVEMENT = 68.0 FT. = 0.013 MILE



LOCATION PLAN INDICATED THUS: –

100' 200' 300'	1" = 100'
0 10' 20' 30'	1" = 10'
0 50' 100'	1" = 50'
0 50' 100'	1" = 40'
0 50' 100'	1" = 30'
0 50' 100'	1" = 20'

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

PROJECT MANAGER: MR. ISAAC KWARTENG (847) 705–4230
PROJECT ENGINEER: MR. ALIX BRICE (847) 705–4552

CONTRACT NO. 60J70

COLLINS ENGINEERS INC
123 N. WACKER DRIVE, SUITE 300
CHICAGO, IL 60606
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184.000993

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 1, 20 10
Diane M. O'Keefe, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER
March 19, 20 10
Scott E. Stitt, P.E.
Acting ENGINEER OF DESIGN AND ENVIRONMENT
March 19, 20 10
Christine M. Reed, P.E.
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

INDEX OF HIGHWAY STANDARDS

Standard No.	Description
000001-05	Standard Symbols, Abbreviations And Patterns
000001-02	Areas Of Reinforcement Rebars
420001-07	Pavement Joints
515001-03	Name Plate For Bridge
630001-08	Steel Plate Beam Guardrail
701301-03	Lane Closure, 2L, 2W, Short Time Operations
701306-02	Lane Closure, 2L, 2W, Slow Moving Operations, Day Only
701321-10	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701501-05	Urban Lane Closure, 2L, 2W, Undivided
701502-03	Urban Lane Closure, 2L, 2W, Bidirectional Left Turn
701602-04	Urban Lane Closure, Multilane 2W, Bidirectional Left Turn
701606-06	Urban Lane Closure, Multilane 2W, with Mountable Median
701901-01	Traffic Control Devices
704001-06	Temporary Concrete Barrier
780001-02	Typical Pavement Markings
781001-03	Typical Applications Raised Reflective Pavement Markers
701411-06	

GENERAL NOTES

1. These plans have been prepared from notes received from IDOT Field Maintenance Engineers.
2. 10 ft (3 m) transitions shall be used to match proposed items of work to existing items in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed item of work specified.
3. Where artificial lighting is utilized in night operations, the Contractor shall exercise the utmost precautions in preventing adverse visibility to the motoring public and adjoining residential areas.
4. The engineer shall be the sole judge concerning curing time for the various hot-mix asphalt lifts.
5. For stabilization, all Type III barricades shall require a minimum of four (4) sandbags per barricade.
6. The Resident Engineer must contact the Traffic Control Supervisor at (847)705-4470 at least 72 hours prior to installation of the temporary control devices.
7. The Resident Engineer shall contact the Area Traffic Field Engineer (Walter Czarny) at (847)715-8419 at least two (2) weeks prior to the placement of permanent pavement markings.
8. All pavement markings and raised reflectors affected by the bridge repairs shall be replaced. Nominal quantities have been included in the contract for this work.
9. The Contractor will not be allowed to set up a yard or field office on State property without written permission from the Department.
10. Do not scale these plans for construction purposes.
11. Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.
12. During construction operations, loose material deposits that obstruct the flow of water in draining the area shall be removed before the end of each work day. At the conclusion of construction operations, all drainage structures (new and existing) shall be free from all dirt and debris. This work will not be paid for separately but shall be considered incidental to the contract.
13. All Type I and Type II barricades shall have two (2) sandbags on the bottom rail.
14. The quantities for Hot-Mix Asphalt Surface Removal (Deck); Hot-Mix Asphalt Surface Removal, 1½"; and Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N90 have been prepared assuming 1½inch thick hot-mix asphalt overlays. Removal and replacement of the entire thickness of existing overlay is required.
15. All raised reflective pavement markers (bridge) shall be low profile.
16. Before beginning any work, the Contractor shall retain and record for future reference, all existing pavement marking lines, symbols and letters (and raised reflective markers) in order that these locations can be re-established for striping. Exact locations of all pavement markings and raised reflective pavement markers shall be as directed by the Engineer.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N90 (IL 9.5mm)	4% @ 70 Gyr.

The unit weight used to calculate all HMA Surface mixture quantities is 112 Lbs./Sq. Yd./In.

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 70B-2A

CODE	ITEM DESCRIPTION	UNIT	URBAN QUANTITY	
40600100	Bituminous Materials (Prime Coat)	Gallon	25	25
40603595	Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N90	Ton	21	21
42001300	Protective Coat	Sq. Yd.	203	203
44000155	Hot-Mix Asphalt Surface Removal, 1 1/2"	Sq.Yd.	245	245
44000915	Hot-Mix Asphalt Surface Removal (Deck)	Sq.Yd.	172	172
50102400	Concrete Removal	Cu.Yd.	12	12
50300255	Concrete Superstructure	Cu.Yd.	7	7
50300260	Bridge Deck Grooving	Sq.Yd.	165	165
50800105	Reinforcement Bars, Epoxy Coated	Pound	1,270	1,270
67000400	Engineer's Field Office, Type A	Cal.Mo.	3	3
67100100	Mobilization	L Sum	1	1
70101800	Traffic Control and Protection, (Special)	L Sum	1	
70301000	Work Zone Pavement Marking Removal	Sq.Ft.	1,652	1,652
70400100	Temporary Concrete Barrier	Foot	88	88
70400200	Relocate Temporary Concrete Barrier	Foot	68	68
* 78000200	Thermoplastic Pavement Marking - Line 4"	Foot	1,590	1,590
* 78008210	Polyurea Pavement Marking, Type I - Line 4"	Foot	70	
* 78100100	Raised Reflective Pavement Marker	Each	10	
* 78100105	Raised Reflective Pavement Marker (Bridge)	Each	10	
78100200	Temporary Raised Reflective Pavement Marker	Each	10	10
78300100	Pavement Marking Removal	Sq.Ft.	553	553
78300200	Raised Reflective Pavement Marker Removal	Each	25	25
X0320[illegible]	Polymer Concrete	Cu.Ft.	7	
X0322185	Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq.Yd.	160	160
X0322256	Temporary Information Signing	Sq.Ft.	50	50
X0325305	Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq.Ft.	92	92
X0325775	Wet Reflective Temporary Tape, Type III, 4 Inch	Foot	4,955	4,955
X0326766	Clean & Reseal Relief Joint.	Foot	110	110
Z0001800	Approach Slab Repairs (Partial Depth)	Sq.Yd.	1	1
Z0006204	Bridge Deck Hydro-Scarification 1/2"	Sq.Yd.	172	172
Z0016002	Deck Slab Repair (Full Depth, Type II)	Sq.Yd.	14	14
Z0030250	Impact Attenuators, Temporary (Non-Redirective), Test Level 3	Each	2	2
Z0030350	Impact Attenuators, Relocate (Non-Redirective), Test Level 3	Each	2	2
X0325837	Wet Reflective Temporary Tape, Type III, 6 Inch	Foot	25	25
X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	Each	1	1

* Specialty Items

Rev.

PLOT SCALE = [illegible]	USER NAME = IDOT(eng)	DESIGNED - J.M. HAMELKA	REVISED -	
PLOT DATE = 2/5/2010		DRAWN - D. REDZIC	REVISED -	
	PLOT SCALE = 1.0000 ' / IN.	CHECKED - J.M. HAMELKA	REVISED -	
	PLOT DATE = 2/5/2010	DATE - JANUARY, 2010	REVISED -	

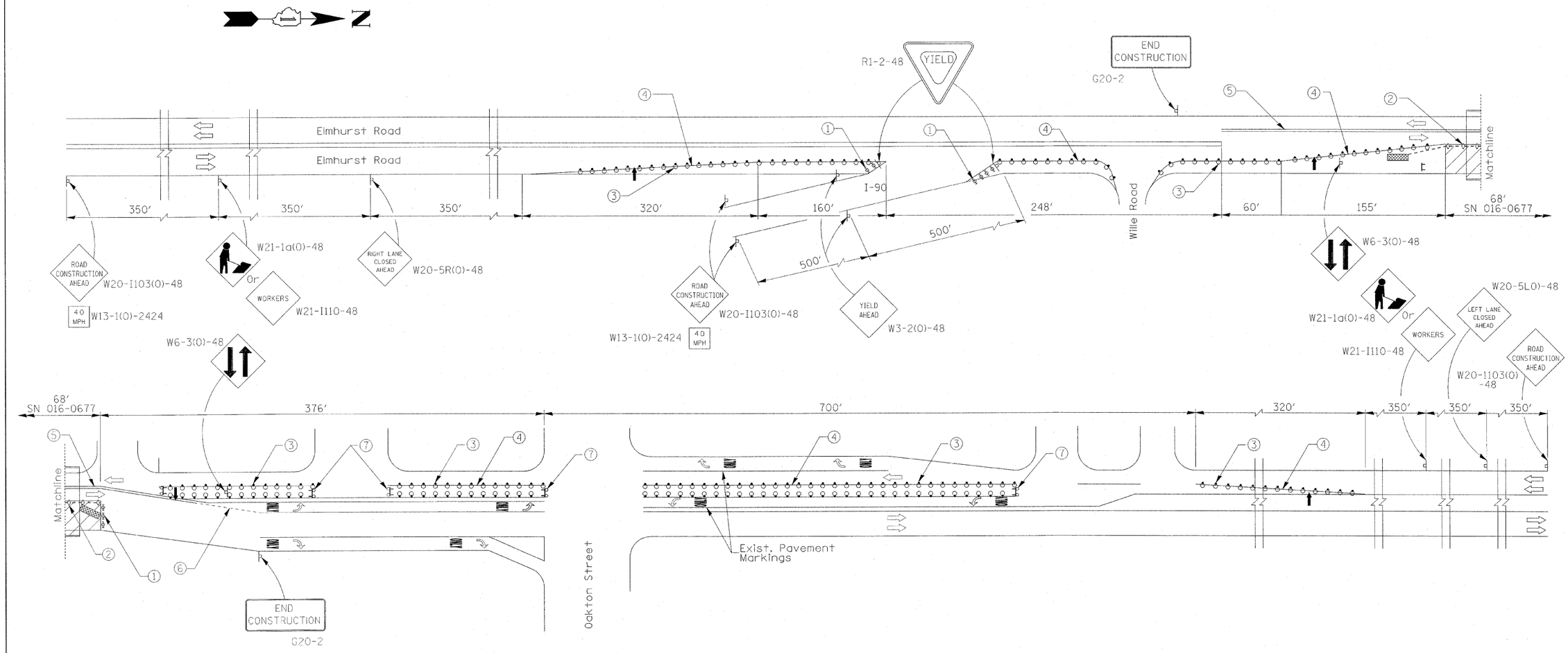
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS, STATE STANDARDS, AND SOQ
FAU 2678 /ELMHURST ROAD OVEP HIGGINS CREEK

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2678	3025-I-1	COOK	10	2
		CONTRACT NO. 60J70		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SYMBOLS

- Work area
- Sign
- Type III barricade
- Impact attenuator
- Arrow board
- Drum with steady burning light
- Temporary concrete barrier
- Crystal, bidirectional barrier wall/guardrail marker
- Barricade or drum with flashing light

1. Type II barricades or drums with steady burning monodirectional light
2. Barrier wall/guardrail markers at 25' cts. See Standards 704001 & 635011.
3. Drums at 6' centers
4. Temporary pavement marking, 4" wide solid white
5. Temporary pavement marking, 4" wide double yellow at 8 inches C-C
6. Temporary pavement marking, 6" wide dashed white (2' line, 6' space)
7. Type I or Type II barricades, per Standard 701606

NOTES:

MAINTENANCE OF TRAFFIC DEVICES TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF STANDARDS 701321, 701411, AND 701606 AND DISTRICT ONE STANDARDS TC-11 AND TC-13. ADDITIONAL SIGNAGE MAY BE REQUIRED BY THE RESIDENT ENGINEER. THIS WORK AND SIGNAGE IS INCLUDED IN THE PAYITEM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

EXISTING, CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

REMOVAL OF THE TEMPORARY PAVEMENT MARKINGS SHALL BE PAID FOR UNDER THE PAY ITEM WORK ZONE PAVEMENT MARKING REMOVAL.

THE EXISTING PAVEMENT MARKINGS THAT HAVE BEEN REMOVED SHALL BE REPLACED IN-KIND. POLYUREA PAVEMENT MARKING, TYPE I WILL BE PLACED ON CONCRETE SURFACES. THERMOPLASTIC PAVEMENT MARKINGS WILL BE PLACED ON HMA SURFACES.

FILE NAME = D160J70-sht-staging.dgn	USER NAME = IDOT(eng)	DESIGNED - A. Selber	REVISED -
		DRAWN - A. Selber	REVISED -
	PLOT SCALE =	CHECKED - J. Hamelka	REVISED -
	PLOT DATE = February 1, 2010	DATE - JANUARY, 2010	REVISED -

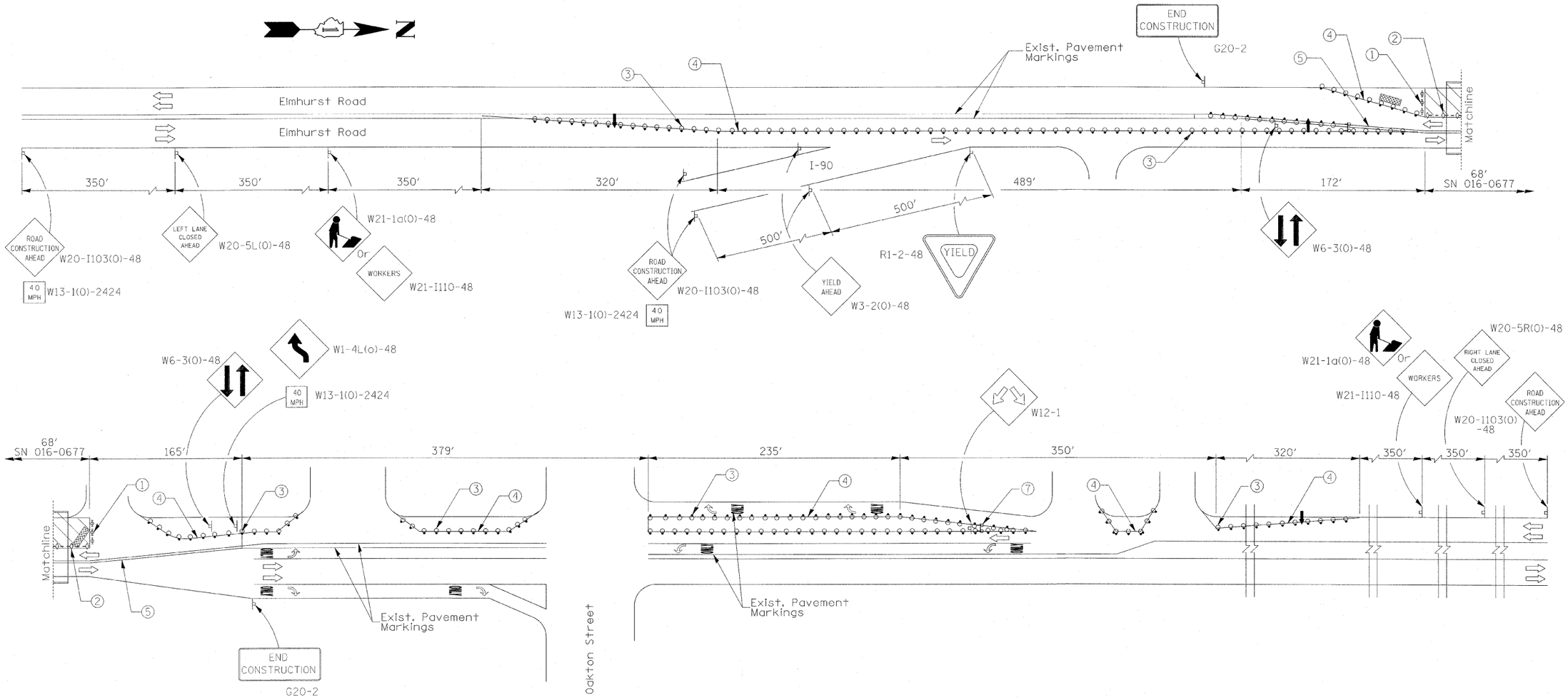
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION – MAINTENANCE OF TRAFFIC
FAU 2678 /ELMHURST ROAD OVER HIGGINS CREEK

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2678	3025-I-1	COOK	10	3
		CONTRACT NO. 60J70		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SYMBOLS

Work area	Drum with steady burning light
Sign	Temporary concrete barrier
Type III barricade	Double vertical panel (see detail)
Impact attenuator	Crystal, bidirectional barrier wall/guardrail marker
Arrow board	Barricade or drum with flashing light

1. Type II barricades or drums with steady burning monodirectional light
2. Barrier wall/guardrail markers at 25′ cts. See Standards 704001 & 635011.
3. Drums at 6′ centers
4. Temporary pavement marking, 4″ wide solid white
5. Temporary pavement marking, 4″ wide double yellow at 8 inches C-C
6. Temporary pavement marking, 6″ wide dashed white (2′ line, 6′ space)
7. Type I or Type II barricades, per Standard 701606

NOTES:

MAINTENANCE OF TRAFFIC DEVICES TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF STANDARDS 701321 AND 701606 AND DISTRICT ONE STANDARDS TC-11 AND TC-13. ADDITIONAL SIGNAGE MAY BE REQUIRED BY THE RESIDENT ENGINEER. THIS WORK AND SIGNAGE IS INCLUDED IN THE PAYITEM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

EXISTING, CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

REMOVAL OF THE TEMPORARY PAVEMENT MARKINGS SHALL BE PAID FOR UNDER THE PAY ITEM WORK ZONE PAVEMENT MARKING REMOVAL.

THE EXISTING PAVEMENT MARKINGS THAT HAVE BEEN REMOVED SHALL BE REPLACED IN-KIND. POLYUREA PAVEMENT MARKING, TYPE I WILL BE PLACED ON CONCRETE SURFACES. THERMOPLASTIC PAVEMENT MARKINGS WILL BE PLACED ON HMA SURFACES.

FILE NAME = D160J70-sht-staging.dgn	USER NAME = IDOT (eng)	DESIGNED - A. Selber	REVISED -
		DRAWN - A. Selber	REVISED -
	PLOT SCALE =	CHECKED - J. Hamelka	REVISED -
	PLOT DATE = February 1, 2010	DATE - JANUARY, 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION – MAINTENANCE OF TRAFFIC
FAU 2678 /ELMHURST ROAD OVER HIGGINS CREEK

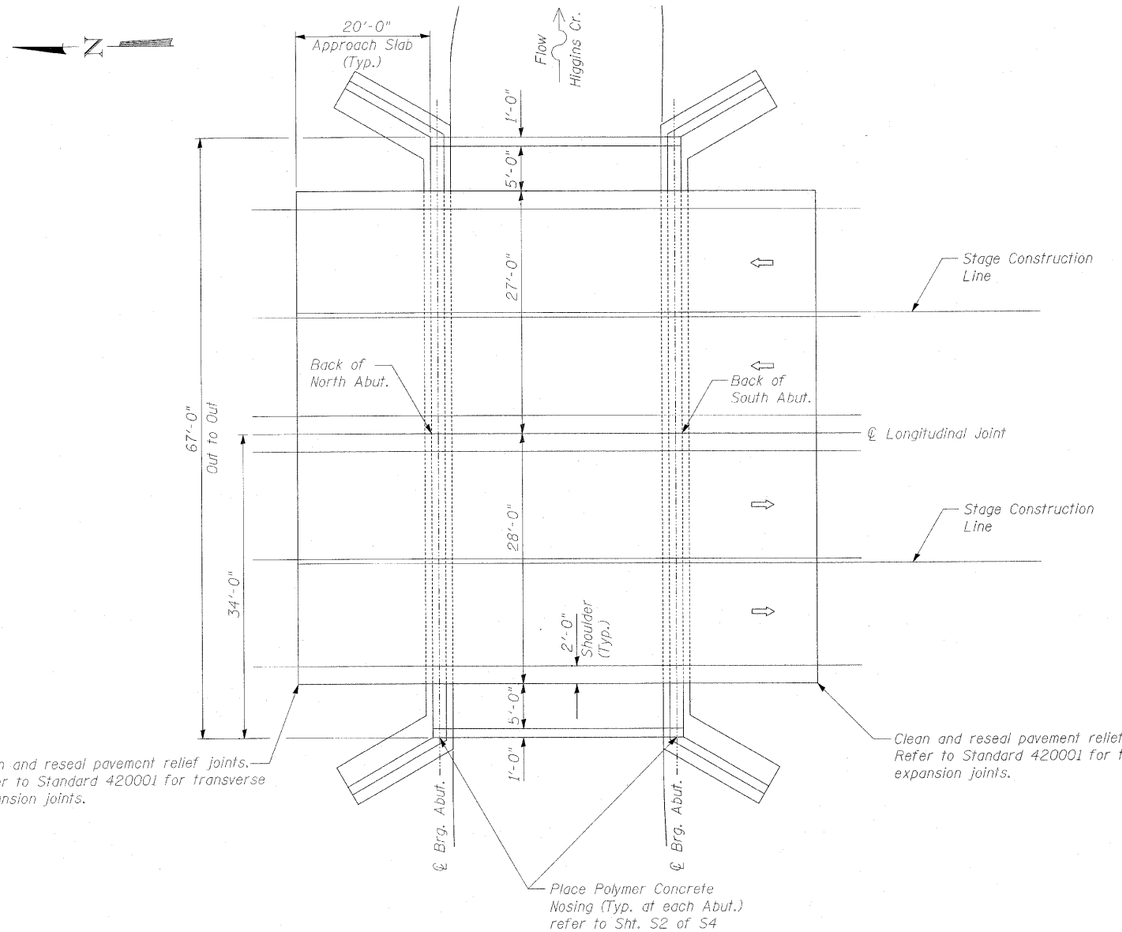
SCALE: | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2678	3025-1-1	COOK	10	4
		CONTRACT NO. 60J70		
		ILLINOIS FED. AID PROJECT		

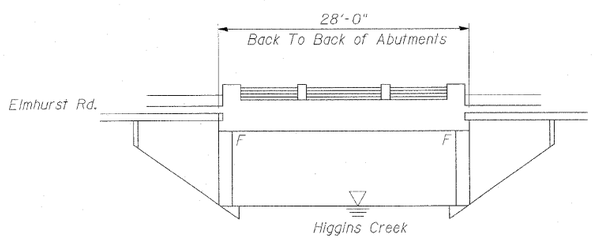
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: The structure is a single span reinforced concrete slab bridge with a hot-mix asphalt overlay. The original structure was built in 1926 as Section 3025-I 1.

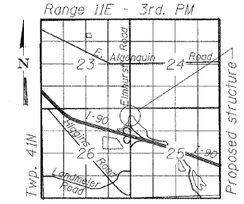
Salvage: None.



PLAN



ELEVATION



LOCATION SKETCH

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges. 17th Edition

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

SCOPE OF WORK

1. Bridge deck and approach pavement overlay removal.
2. Bridge deck hydro-scarification.
3. Reconstruct longitudinal joint.
4. Repair bridge deck.
5. Repair approach slabs.
6. Repair parapets and sidewalks.
7. Place new overlay.
8. Clean and reseal pavement relief joints.

DESIGNED	JMC/JMH
CHECKED	JMH
DRAWN	JMC
CHECKED	SLK

2010
EXAMINED
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
JAMES M. HAMELKA
OSWEGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER
02.24.2010

COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2010

GENERAL PLAN AND ELEVATION
F.A.U. ROUTE 2678 SEC. 3025-I-1
ELMHURST ROAD OVER HIGGINS CREEK
COOK COUNTY
STATION 51+88
STRUCTURE NO. 016-0677

SHEET NO. S1 OF S4 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2678	3025-I-1	COOK	10	5
			CONTRACT NO. 60J70		
		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

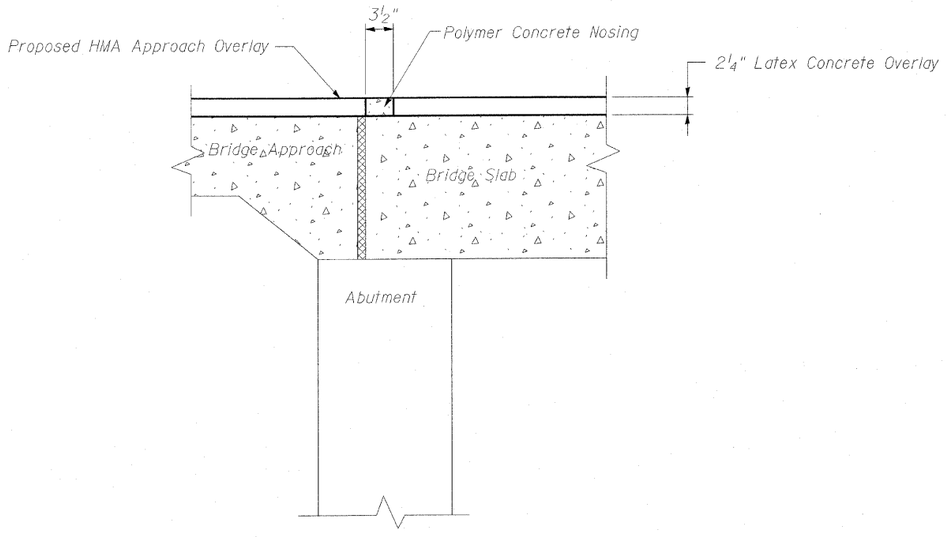
INDEX OF SHEETS

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. 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.
4. Stage construction shall be utilized to maintain traffic during construction.
5. The removal and reattachment of guardrail, hand rail, steel railings, traffic barrier terminal, and etcetera required for repair work (e.g. transverse joint replacement or structural repair of concrete) shall be included in the contract unit price of the work item being performed.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	SUPER SRUCT.	SUB SRUCT.	TOTAL
Approach Slab Repair (Partial Depth)	Sq. Yd.	1		1
Protective Coat	Sq. Yd.	203		203
Bridge Deck Grooving	Sq. Yd.	165		165
Bridge Deck Latex Concrete Overlay 2¼"	Sq. Yd.	160		160
Bridge Deck Hydro-Scarification ½"	Sq. Yd.	172		172
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	92		92
Hot-Mix Asphalt Surface Removal 1½"	Sq. Yd.	245		245
Polymerized Hot-Mix Asphalt Surface Course Mix "F", N90	Ton	21		21
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	172		172
Clean and Reseal Relief Joints	Foot	110		110
Polymer Concrete	Cu. Ft.	7		7
Concrete Removal	Cu. Yd.	12		12
Concrete Superstructure	Cu. Yd.	7		7
Reinforcement Bars, Epoxy Coated	Pound	1,270		1,270
Bituminous Materials (Prime Coat)	Gallon	25		25



CONCRETE NOSING DETAIL AT BRIDGE ABUTMENTS

Note: When the polymer concrete nosing is to be installed adjacent to a deck overlay, the nosing shall be installed after the overlay is placed.

DESIGNED	JMC/JMH
CHECKED	JMH
DRAWN	JMC
CHECKED	SLK

2010

EXAMINED

ENGINEER OF STRUCTURAL SERVICES

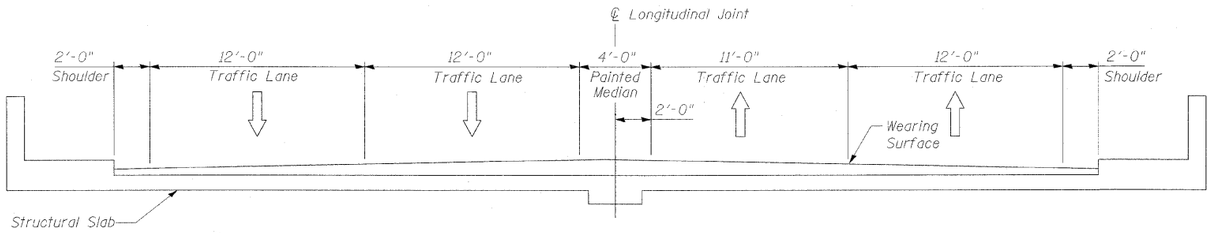
PASSED

ENGINEER OF BRIDGES AND STRUCTURES

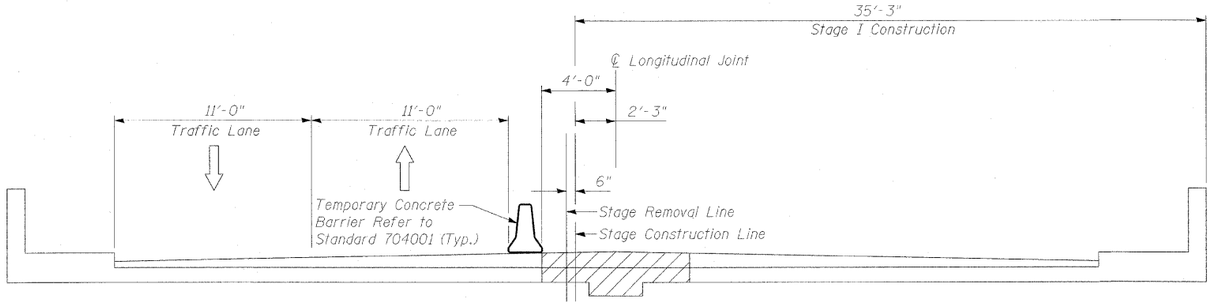
GENERAL NOTES, BILL OF MATERIALS AND INDEX OF SHEETS STRUCTURE NO. 016-0677

SHEET NO. S2 OF S4 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2678	3025-I-1	COOK	10	6
			CONTRACT NO. 60J70		
		ILLINOIS	FED. AID PROJECT		

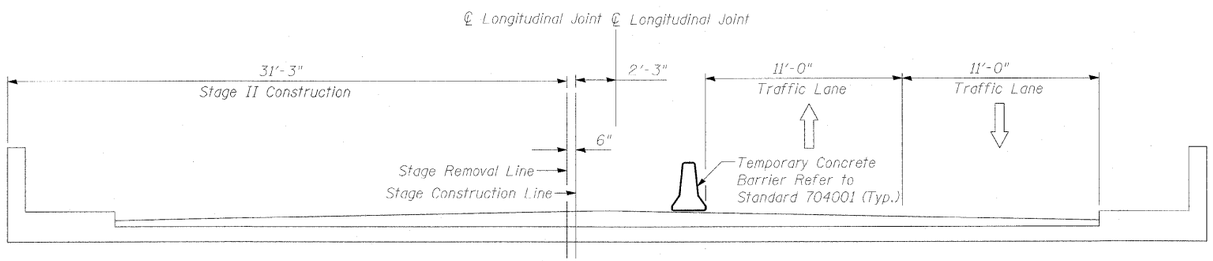
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



EXISTING CROSS SECTION
(Looking North)



STAGE I CROSS SECTION
(Looking North)



STAGE II CROSS SECTION
(Looking North)

NOTE

For quantity of temporary concrete barrier refer to Summary of Quantities.

DESIGNED	JMC/JMH
CHECKED	JMH
DRAWN	JMC
CHECKED	SLK

2010

EXAMINED

ENGINEER OF STRUCTURAL SERVICES

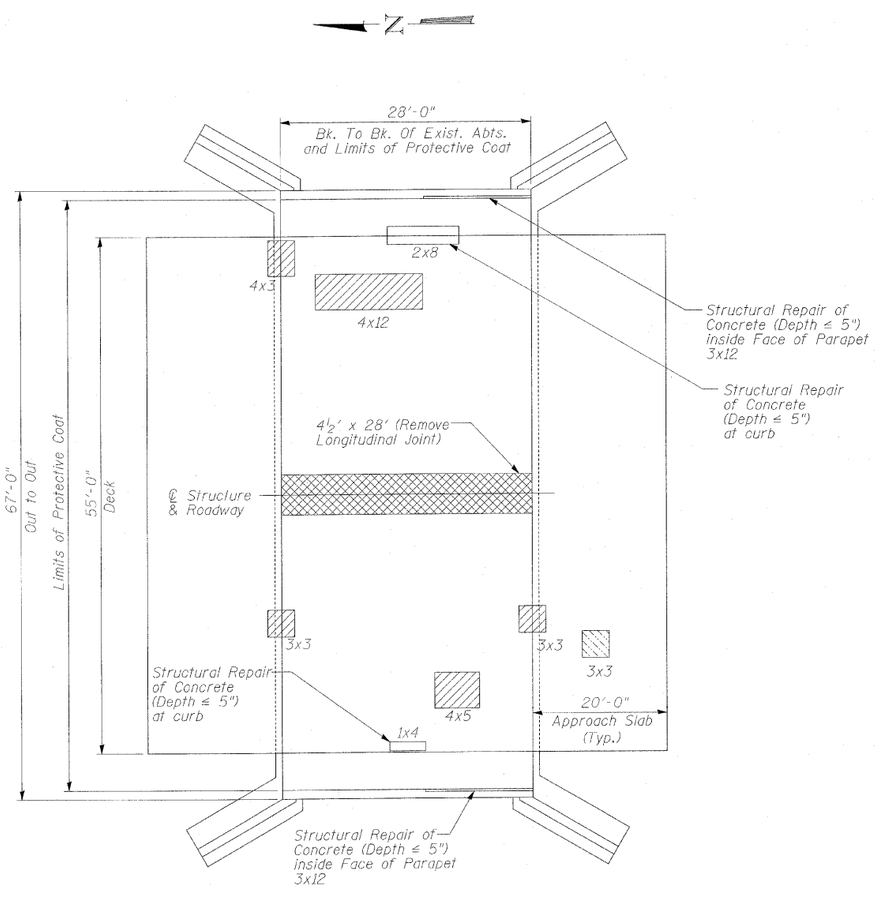
PASSED

ENGINEER OF BRIDGES AND STRUCTURES

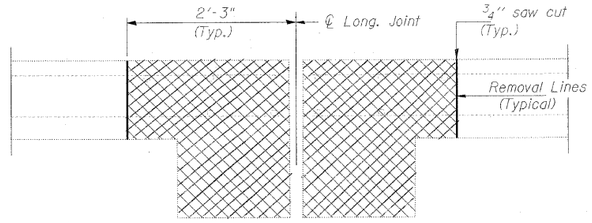
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 016-0677

SHEET NO. S3 OF S4 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2678	3025-I-1	COOK	10	7
			CONTRACT NO. 60J70		
		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

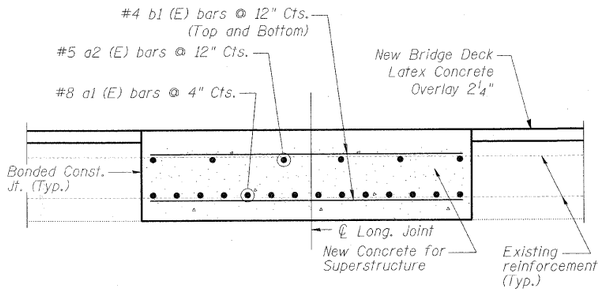


PLAN



EXISTING LONGITUDINAL JOINT CROSS SECTION

Cross Hatched areas indicate concrete sections to be removed. Perimeters of Concrete Removal areas shall be saw cut ¾" prior to the removal of the concrete. Existing transverse reinforcement shall be cleaned straightened and incorporated into the new construction. New reinforcement bars shall be epoxy coated.



RECONSTRUCTED LONGITUDINAL JOINT WITH CONCRETE BRIDGE DECK OVERLAY DETAIL

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Deck Slab Repair (Partial) Δ	Sq. Yd.	12
	Approach Slab Repair (Partial Depth)	Sq. Yd.	1
	Protective Coat	Sq. Yd.	203
	Bridge Deck Grooving	Sq. Yd.	165
	Bridge Deck Latex Concrete Overlay 2¼"	Sq. Yd.	160
	Bridge Deck Hydro-Scarification ½"	Sq. Yd.	172
	Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	92
	Hot-Mix Asphalt Surface Removal 1½"	Sq. Yd.	245
	Polymerized Hot-Mix Asphalt Surface Course Mix "F", N90	Ton	21
	Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	172
	Concrete Removal	Cu. Yd.	12
	Concrete Superstructure	Cu. Yd.	7
	Reinforcement Bars, Epoxy Coated	Pound	1,270
	Bituminous Materials (Prime Coat)	Gallon	25

BAR	NO.	SIZE	LENGTH	SHAPE
a1 (E)	13	#8	27'-8"	———
a2 (E)	5	#5	27'-8"	———
b1 (E)	58	#4	4'-2"	———

Δ For information only to assist the Contractor in bidding. See Special Provision for "Bridge Deck Latex Overlay."

NOTES:

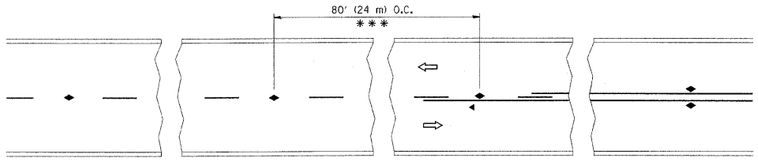
1. Deck And Approach Slab Repair Areas Are Estimated Based On Visual Inspection Completed In October 2009. Actual Repair Areas And Locations Shall Be Determined By The Engineer And Shown On As-built Plans.
2. The Contractor may have to remove and reattach traffic barrier terminal to facilitate structural repair of concrete at parapets. This work shall be included in the item for "Structural Repair of Concrete (Depth < 5")."
3. The following items consider the entire deck surface area:
   Hot Mix Asphalt Surface Removal (Deck)
   Bridge deck hydro-scarification ½"
   Bridge deck grooving
4. The item for Bridge Deck Latex Concrete Overlay 2¼" considers the deck area excluding the reconstructed longitudinal joint area.
5. The following items apply to the extents of both approach slabs:
   Hot-Mix Asphalt Surface Removal, 1½"
   Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N90
   Bituminous Materials (Prime Coat)
6. The protective coat shall be applied to the bridge deck, sidewalks and inside faces of parapets.

DESIGNED	JMC/JMH
CHECKED	JMH
DRAWN	JMC
CHECKED	SLK

2010
EXAMINED
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

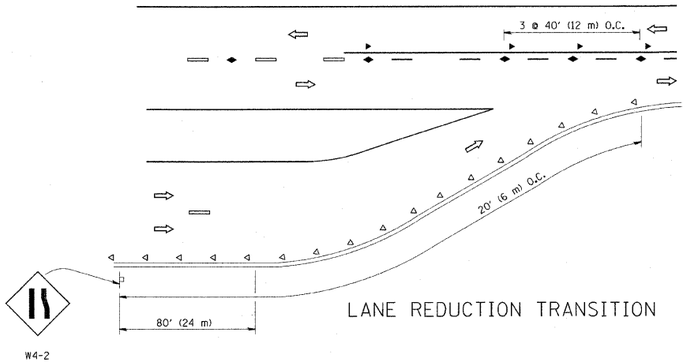
PARAPET, BRIDGE DECK AND APPROACH SLAB REPAIRS
STRUCTURE NO. 016-0677

SHEET NO. S4 OF S4 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2678	3025-I-1	COOK	10	8
			CONTRACT NO. 60J70		
		ILLINOIS	FED. AID PROJECT		

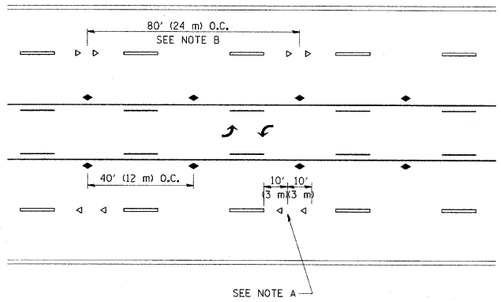


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

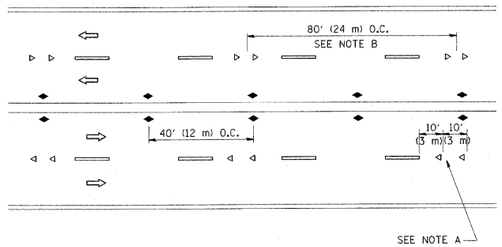
TWO-LANE/TWO-WAY



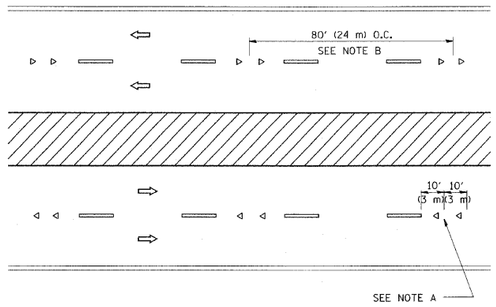
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

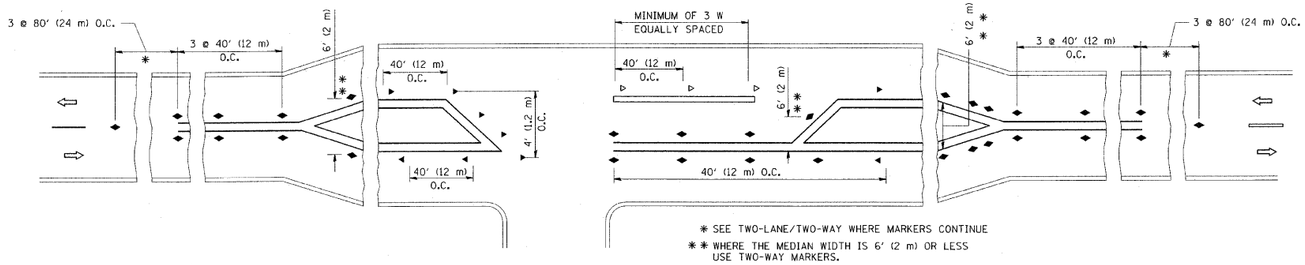
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

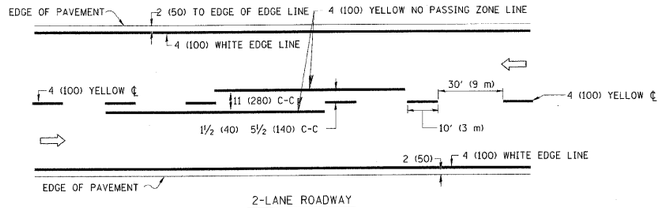
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

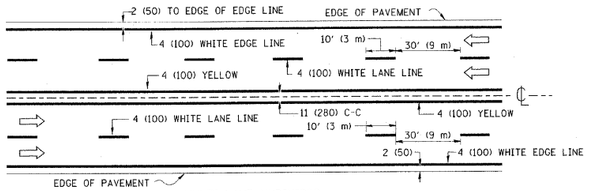
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc11.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**
	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 4/9/2009	CHECKED -	REVISED - T. RAMMACHER 01-06-00		
		DATE -	REVISED - C. JUCIUS 09-09-09		

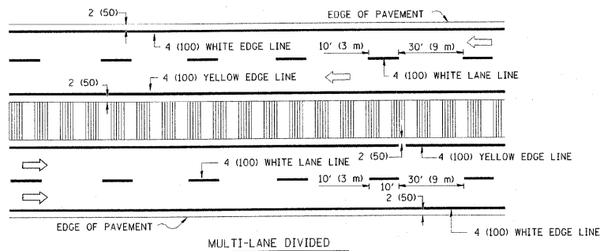
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2678	3025-I-1	COOK	10	9
	TC-11	CONTRACT NO. 60J70		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



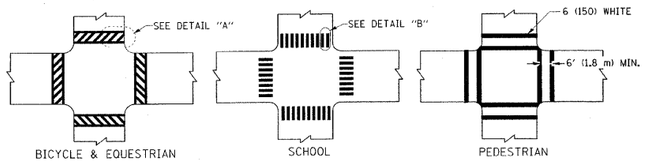
MULTI-LANE UNDIVIDED



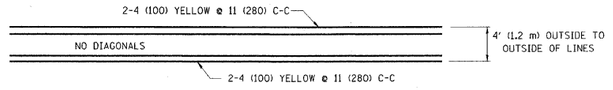
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

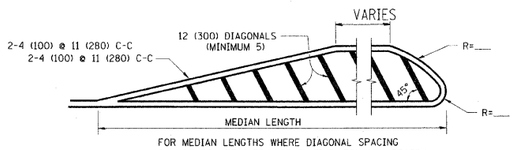
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



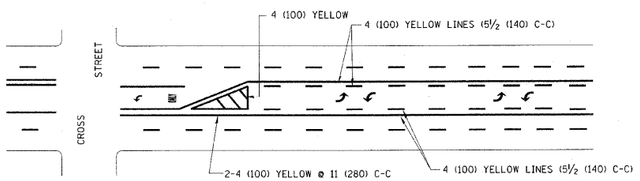
4' (1.2 m) WIDE MEDIANS ONLY



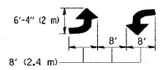
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

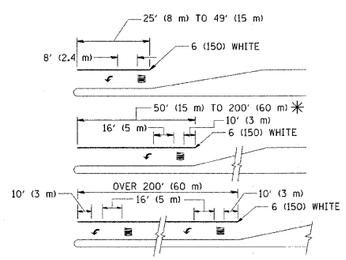


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

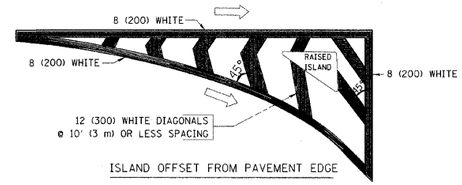


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

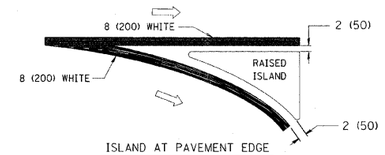
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⌀ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⌀ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⌀ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⌀ 6 (150) 12 (300) ⌀ 45° 12 (300) ⌀ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⌀ 4 (100) WITH 12 (300) DIAGONALS ⌀ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⌀ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) ⌀ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT DATE = 9/9/2009	CHECKED -	REVISED -
		DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2678	3025-I-1	COOK	10	10
	TC-13	CONTRACT NO. 60J70		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		