

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 34 + 1 = 35 TOTAL SHEETS

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	1
ILLINOIS CONTRACT NO. 62G94				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

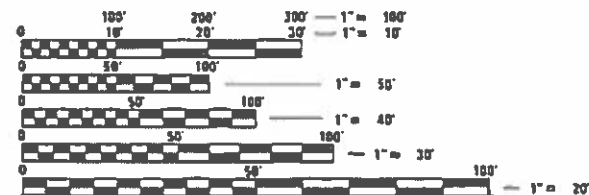
F.A.P. ROUTE 341 – IL 72 WB (HIGGINS RD)  
OVER EJ & E RR  
SECTION: 2018-053-B-R  
PROJECT: NHPP-QR92(242)  
BRIDGE REPAIR, DECK OVERLAY, JOINT REPAIR  
COOK COUNTY

C-91-281-18  
R8E | R9E

**TRAFFIC DATA**

EXISTING ADT = 12550 (2017)  
POSTED SPEED LIMIT = 55 MPH

THE IMPROVEMENT IS LOCATED IN  
THE VILLAGE OF HOFFMAN ESTATES

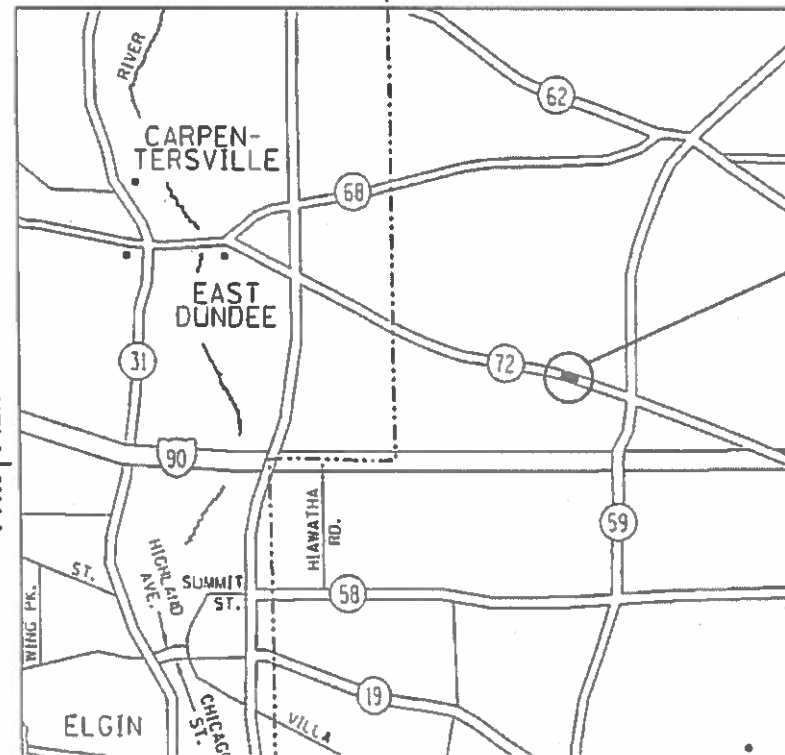


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62G94



LOCATION OF IMPROVEMENT:  
SN 016-0502

BARRINGTON TOWNSHIP

LOCATION MAP  
NOT TO SCALE

GROSS LENGTH = 157 FT. = 0.030 MILE  
NET LENGTH = 157 FT. = 0.030 MILE

0-91-356-18



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 9, 2019  
*Anthony J. ...*  
 REGIONAL ENGINEER  
Oct 4, 2019  
*Paul ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

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4-11	BRIDGE PLANS
12-13	DELETED SHEETS
14	DRAINAGE SCUPPER ADJUSTMENT DETAIL
15-25	STAGING PLANS
26-28	PAVEMENT MARKING PLANS
29	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
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31	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
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33	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
34	ARTERIAL ROAD INFORMATION SIGNING (TC-22)

**HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRANSVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**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 VILLAGE OF HOFFMAN ESTATES.

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 BASED AT THE UNIT PRICE BID FOR THE WORK.

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

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.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, IDOT'S AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT DON.CHIARUGI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

MODEL: Default  
FILE NAME: \\p1p1nroom.dat\illinois.gov\PIWDOT\Documents\DOT\_Offices\District\_1\Projects\1356\B\CADD\data\Design\135618-sh-h-general.dgn

REV. - MS

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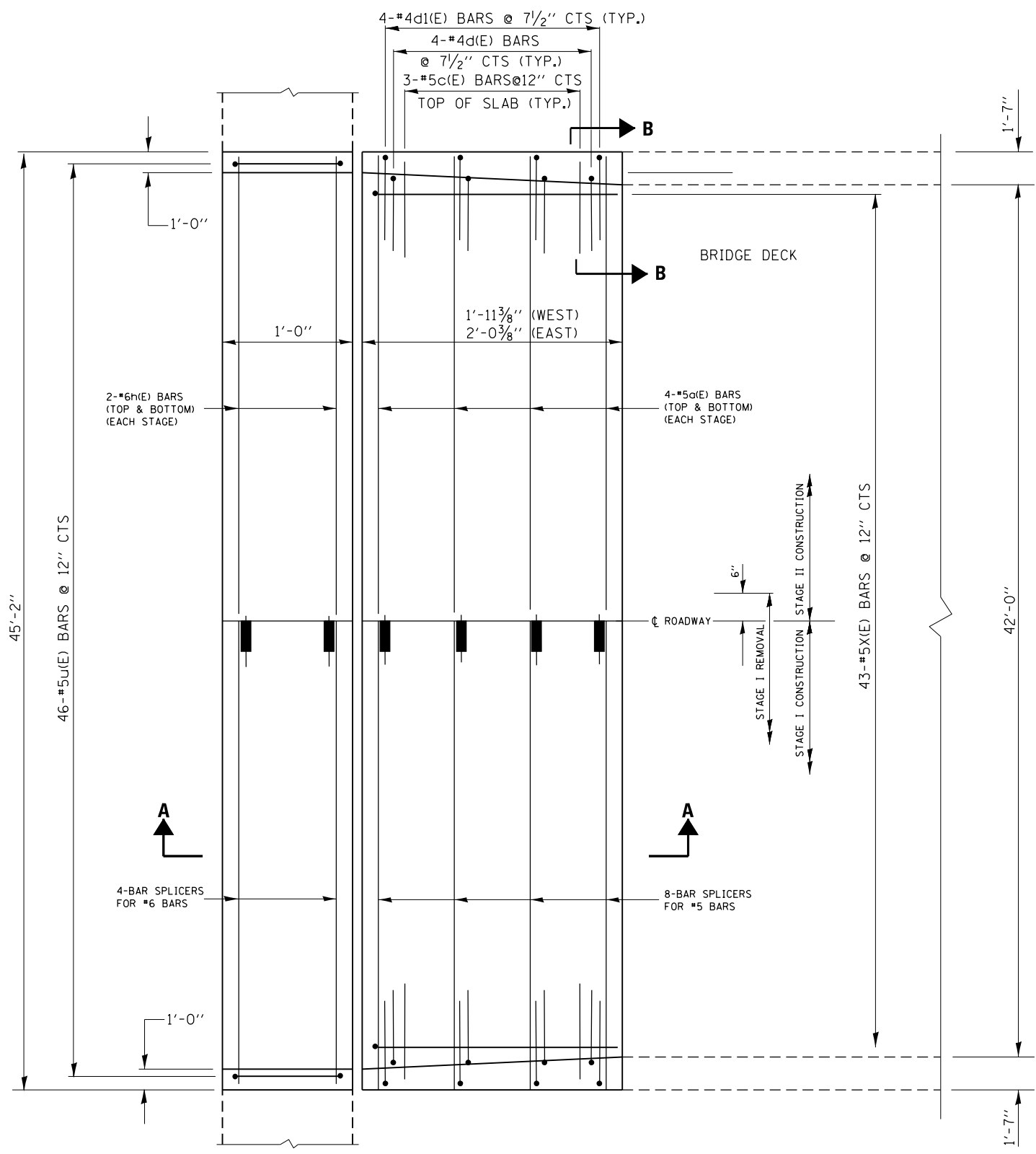


SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0047 FED 80% STATE 20%						CODE NO	ITEM		UNIT				
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SO YD	705	705													
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	40	40													
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	2.8	2.8													
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	2.2	2.2													
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	2	2													
<input type="checkbox"/> Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2													
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	25.7	25.7													
Z0065704	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SO YD	220	220													
<input type="checkbox"/> NON-PART. 100% STATE																	

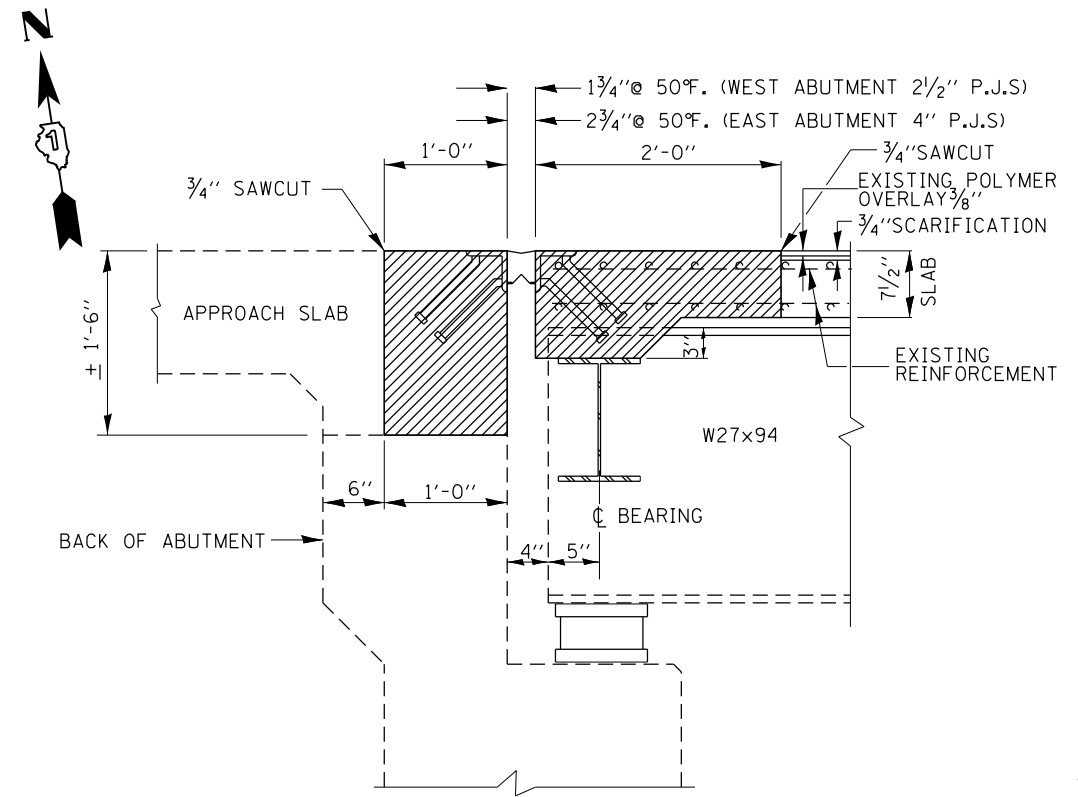
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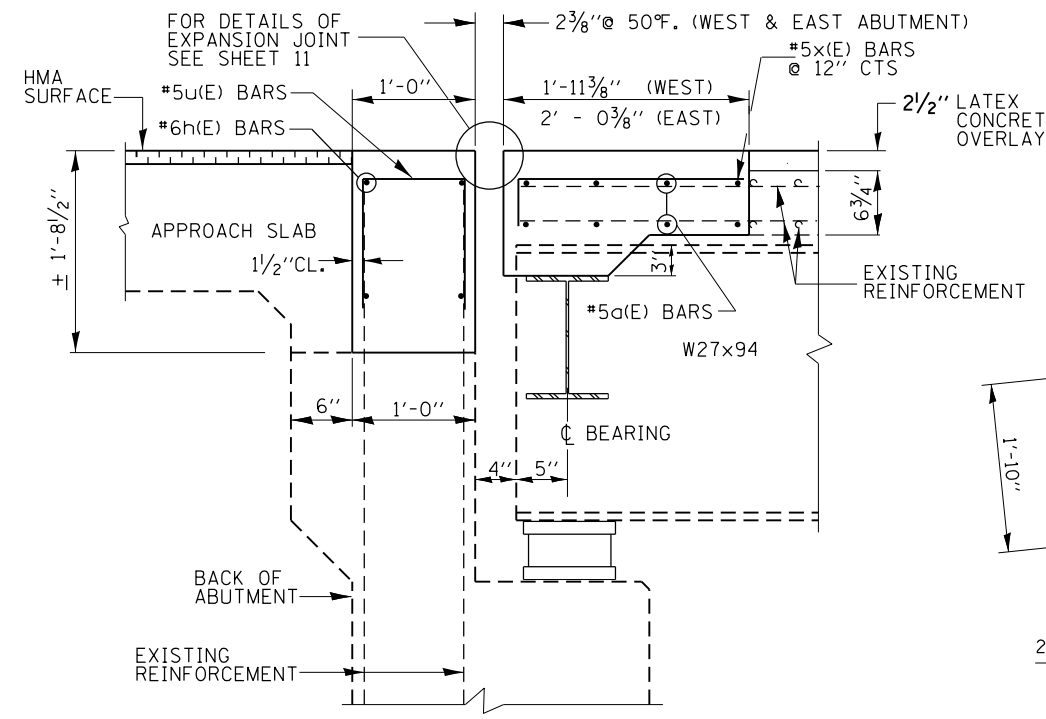




**EXPANSION JOINT PLAN  
AT EAST AND WEST ABUTMENT**

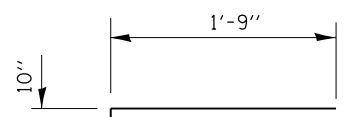


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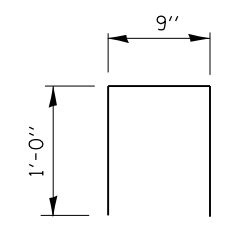


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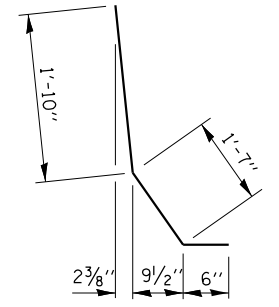
BILL OF MATERIALS				
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	32	#5	22'-6"	—
c(E)	12	#6	4'-0"	—
d(E)	16	#4	5'-2"	L
d1(E)	16	#5	3'-11"	L
h(E)	16	#6	22'-6"	—
u(E)	92	#4	2'-9"	n
x(E)	86	#5	2'-7"	┌
REINFORCEMENT BARS (EPOXY COATED)			POUND	1890
CONCRETE REMOVAL			CU.YD.	13
CONCRETE SUPERSTRUCTURE			CU.YD.	11



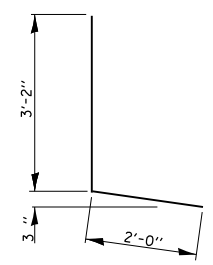
**BAR x(E)**



**BAR u(E)**



**BAR d(E)**



**BAR d1(E)**

**LEGEND:**  
 HATCHED AREA INDICATES CONCRETE REMOVAL

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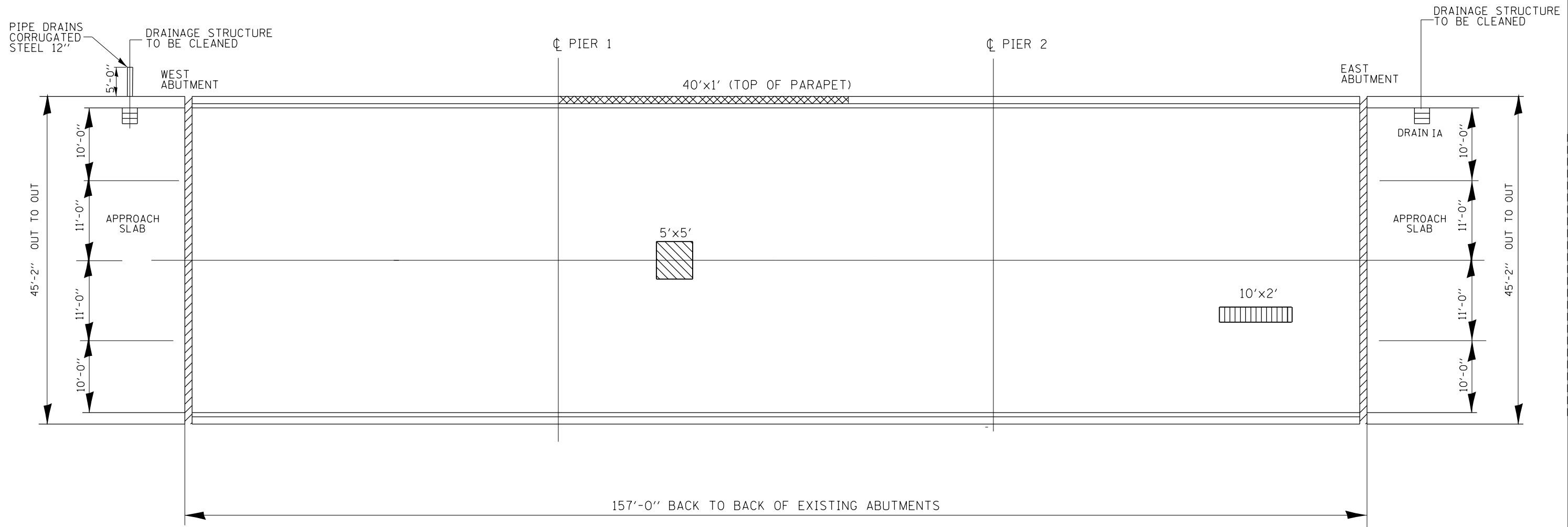
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PLOT DATE = 9/25/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 72 (HIGGINS) WB OVER E.J. AND E. RR.  
TRANVERSE EXPANSION JOINT DETAILS  
S.N. 016-0502**

SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	6
CONTRACT NO. 62G94				
ILLINOIS FED. AID PROJECT				



**PLAN**

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ.FT.	40
PREFORMED JOINT STRIP SEAL	FOOT	95
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ.YD.	2.8
DECK SLAB REPAIR (PARTIAL)	SQ.YD.	2.2
DRAINAGE STRUCTURES TO BE CLEANED	EACH	2
PIPE DRAIN CORRUGATED STEEL 12"	FOOT	5

**LEGEND:**

- STRUCTURAL REPAIR OF CONCRETE ≤ 5"
- PREFORMED JOINT STRIP SEAL
- DECK SLAB REPAIR (FULL DEPTH, TYPE II)
- DECK SLAB REPAIR (PARTIAL)

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PLOT DATE = 9/25/2019	DATE -	REVISED -

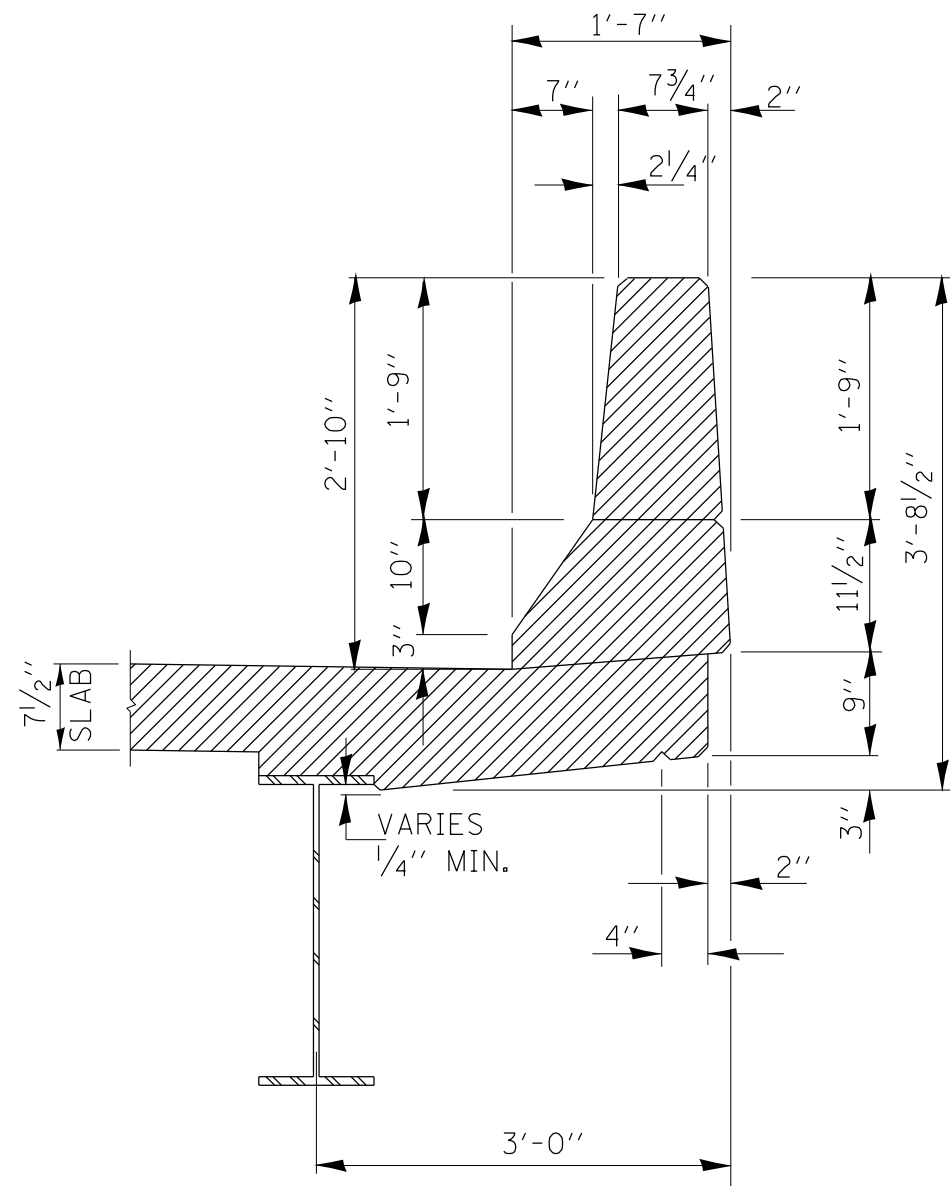
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 72 (HIGGINS) WB OVER E.J. AND E. RR.**  
**STRUCTURAL REPAIR**  
**S.N. 016-0502**

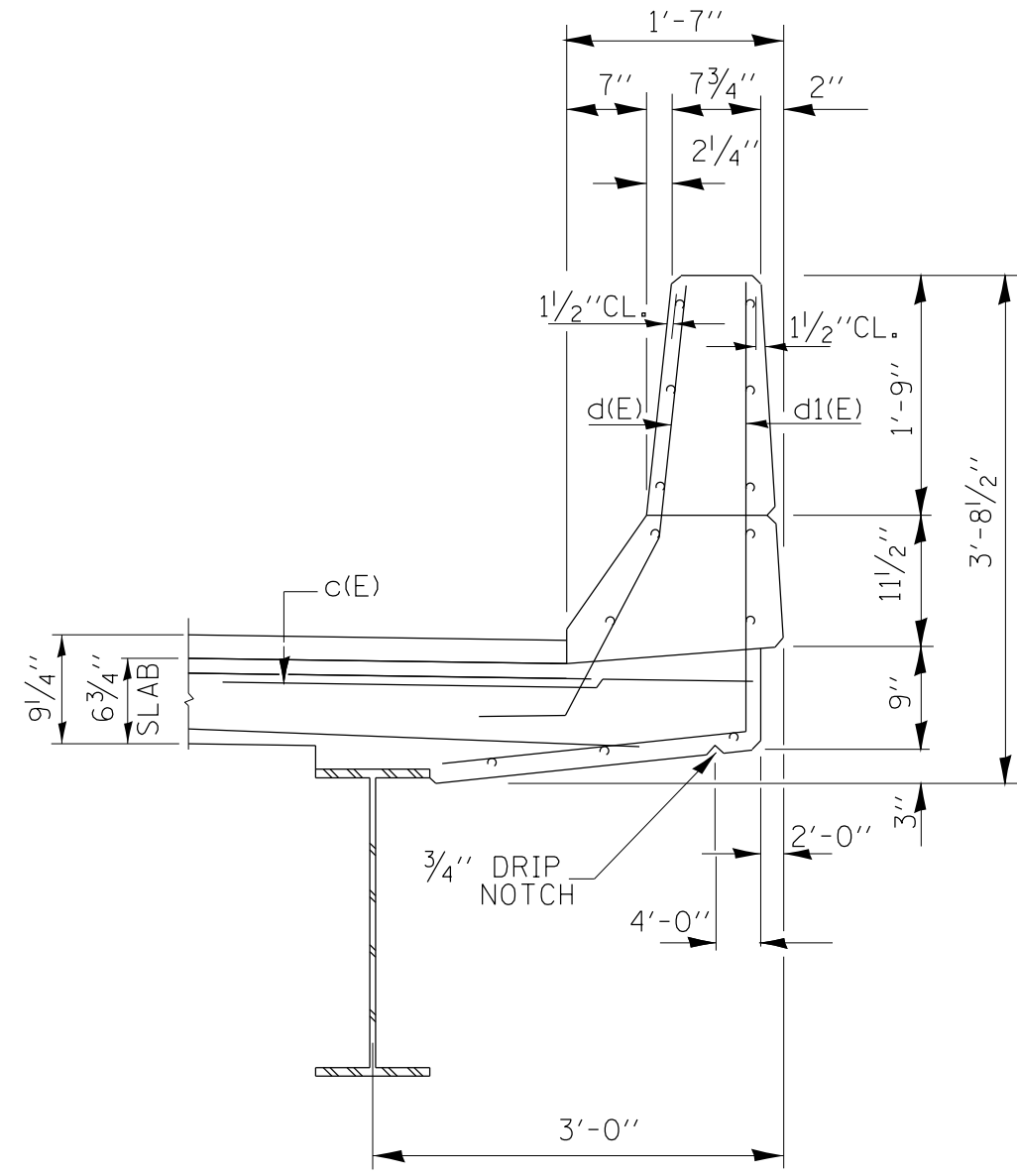
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F.A.P. RTE. 341	SECTION 2018-053-B-R	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 7
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	





**SECTION B-B**  
(EXISTING)



**SECTION B-B**  
(PROPOSED)

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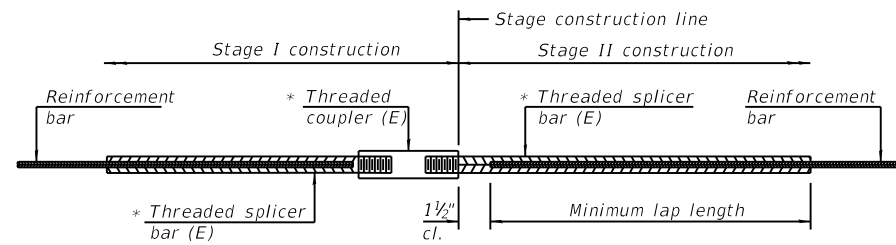
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 72 (HIGGINS) WB OVER E.J. AND E. RR.**  
**STRUCTURAL REPAIR**  
**S.N. 016-0502**

SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G94	



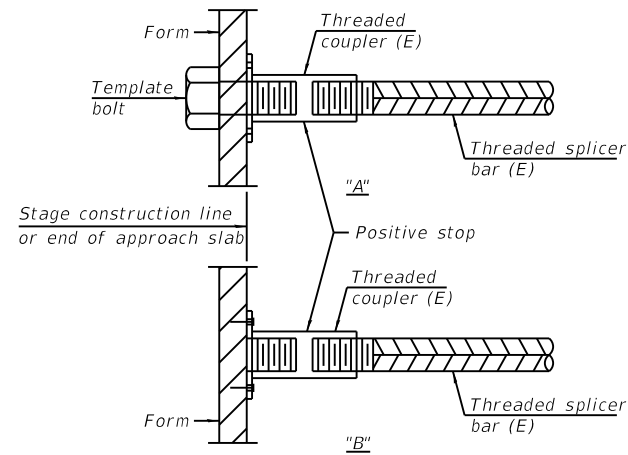


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

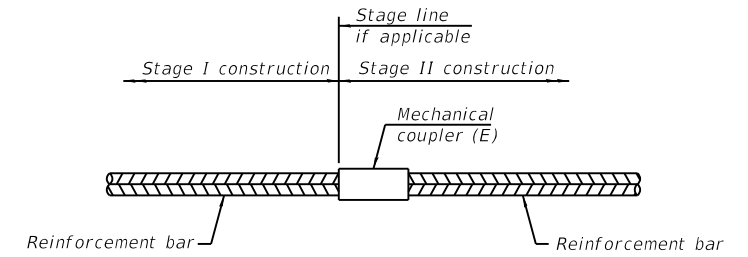
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	16	3'-6"
Abutment	#6	8	4'-0"



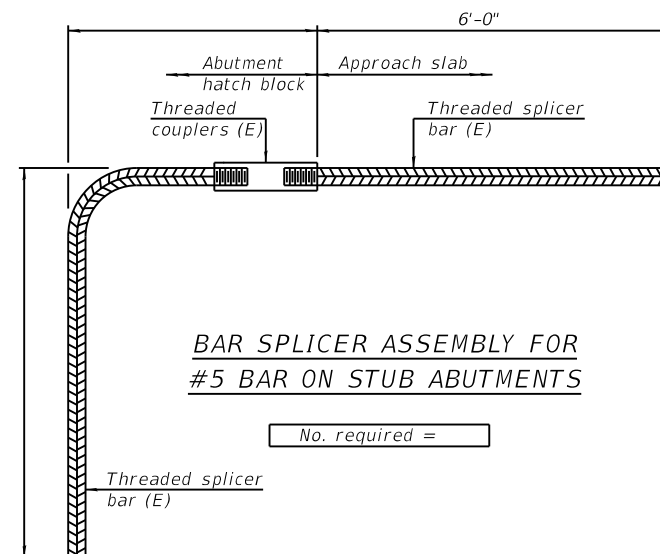
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

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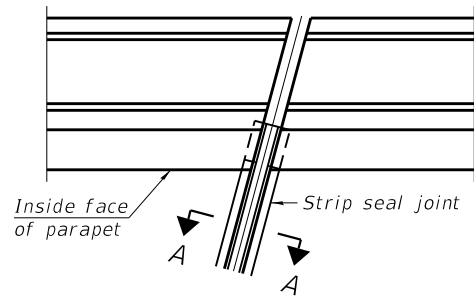
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	DRAWN - Mark V. Tiniakos	REVISED -
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PLOT DATE = 9/25/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

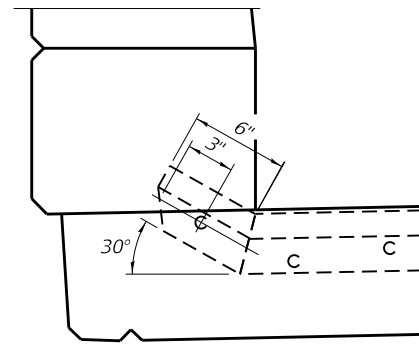
**IL 72 (HIGGINS) WB OVER E.J. AND E. RR.  
 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 S.N. 016-0502**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

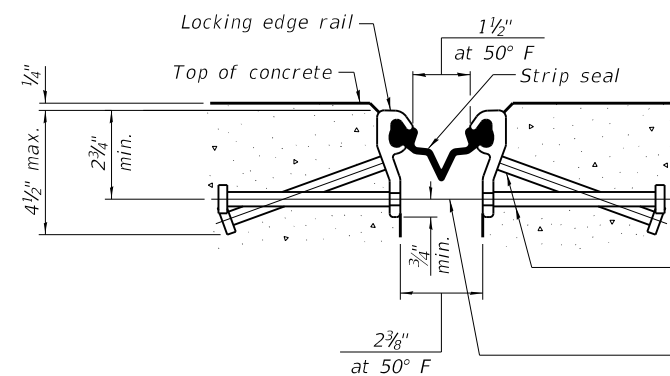
F.A.P. RTE. 341	SECTION 2018-053-B-R	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 10
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	



FOR SKEWS  $\leq 30^\circ$   
**PLAN AT PARAPET**



**ELEVATION AT PARAPET**  
 (Skews  $\leq 30^\circ$ )

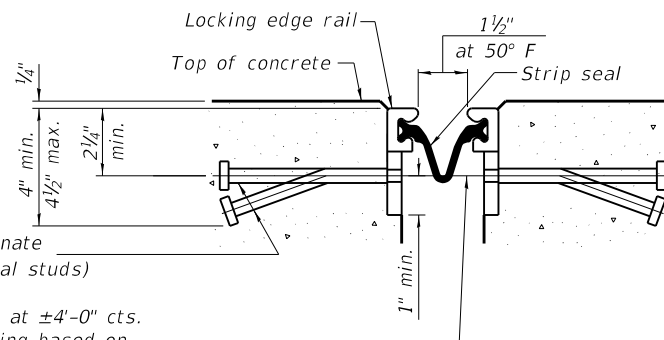


**SHOWING ROLLED RAIL JOINT**

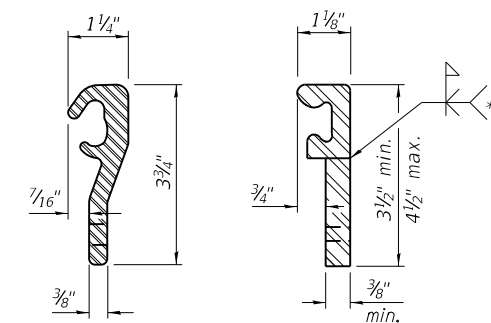
\*  $\frac{5}{8}$ "  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $\frac{3}{8}$ "  $\phi$  threaded rods in  $\frac{7}{16}$ "  $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

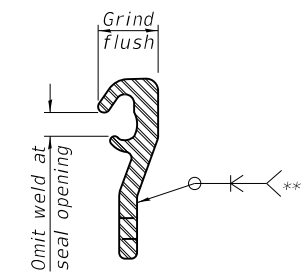


**SHOWING WELDED RAIL JOINT**



**LOCKING EDGE RAILS**  
 ROLLED (EXTRUDED) RAIL  
 WELDED RAIL

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	86

**Notes:**

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the  $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be  $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

EJ-SS1 LT30/REPS

6-22-18

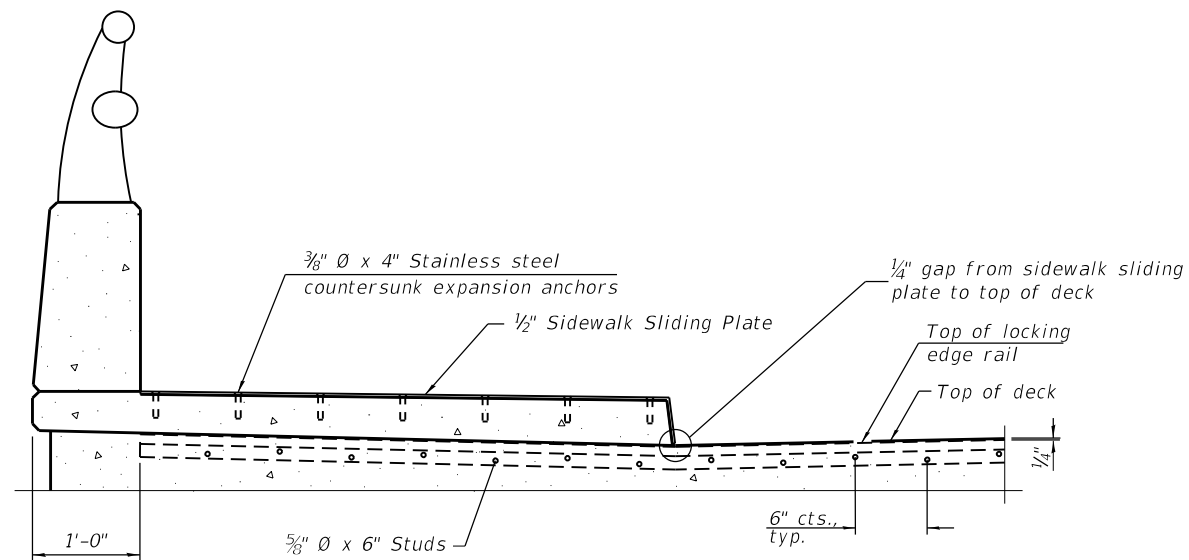
DESIGNED - Mark V. Tiniakos	EXAMINED	DATE - September 23, 2019
CHECKED - Alain Midy	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - Alain Midy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

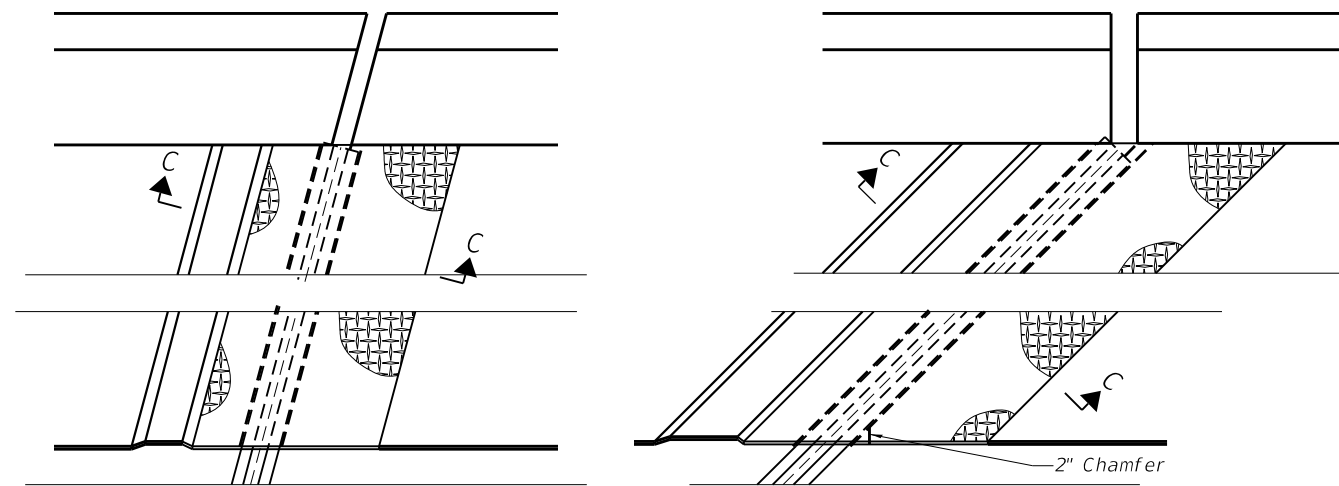
**PREFORMED JOINT STRIP SEAL  
 SN 016-0502**

SHEET NO. 8 OF 8 SHEETS

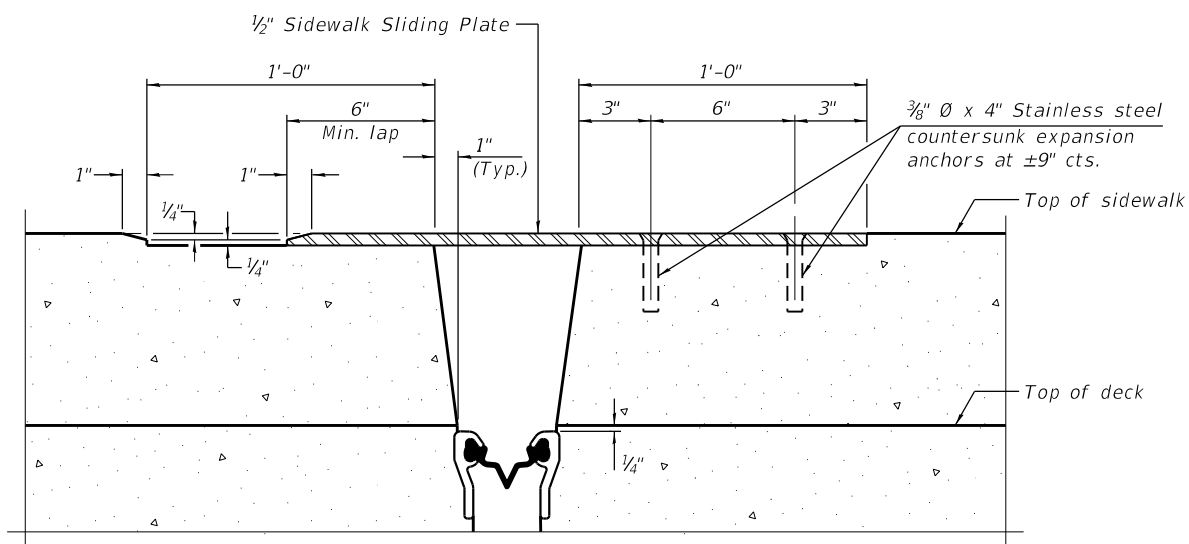
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341	2018-053-B-R	COOK	34	11
CONTRACT NO. 62G94				
ILLINOIS FED. AID PROJECT				



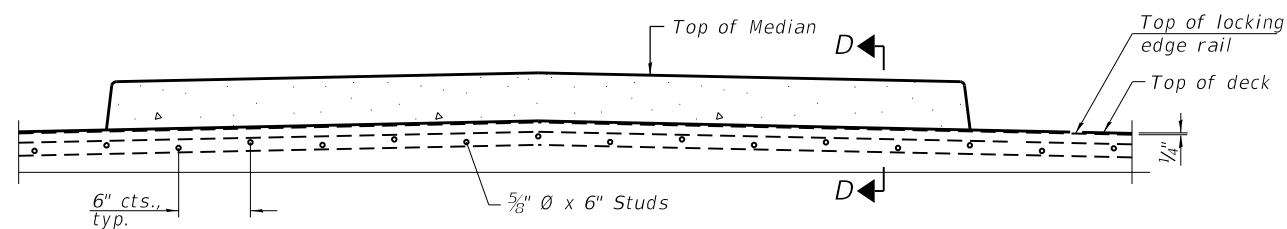
ELEVATION AT RAISED SIDEWALK



PLAN AT RAISED SIDEWALK

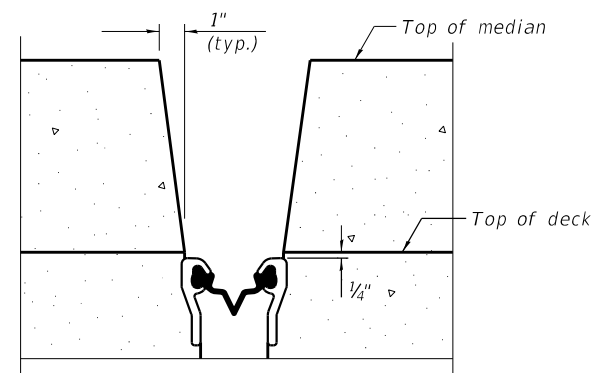


SECTION C-C



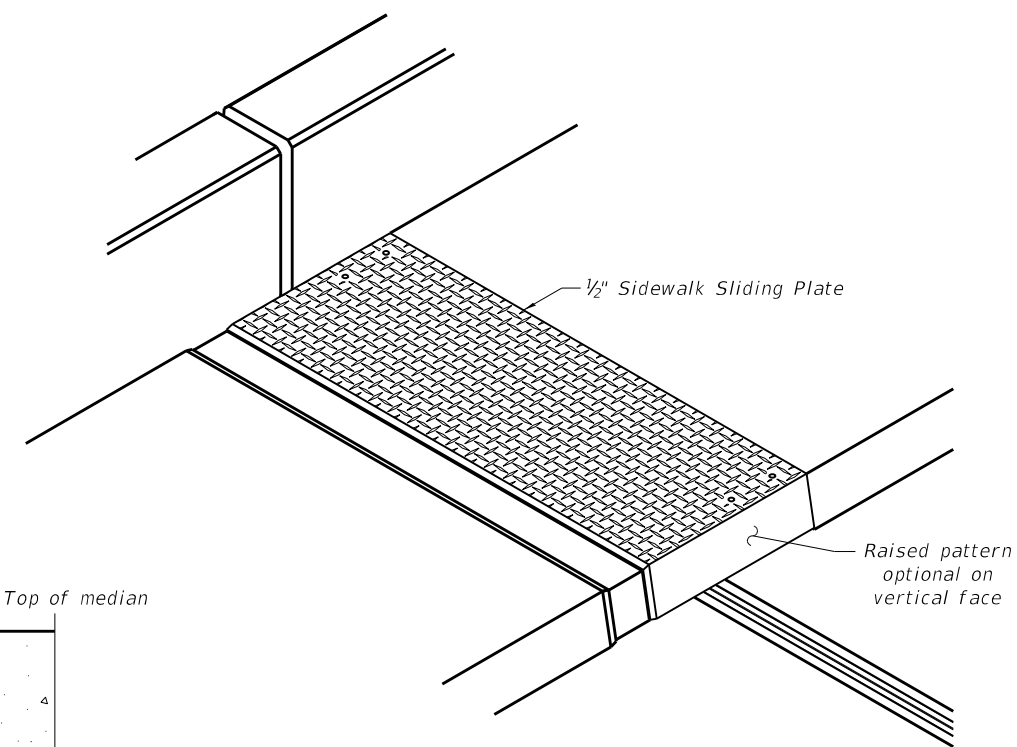
ELEVATION AT MEDIAN

For skews  $> 30^\circ$ , chamfer acute corners 2" similar to sidewalk.



SECTION D-D

(at Rt. L's)



TRIMETRIC VIEW

EJ-SS-S 8-11-17

(Sheet 2 of 3)

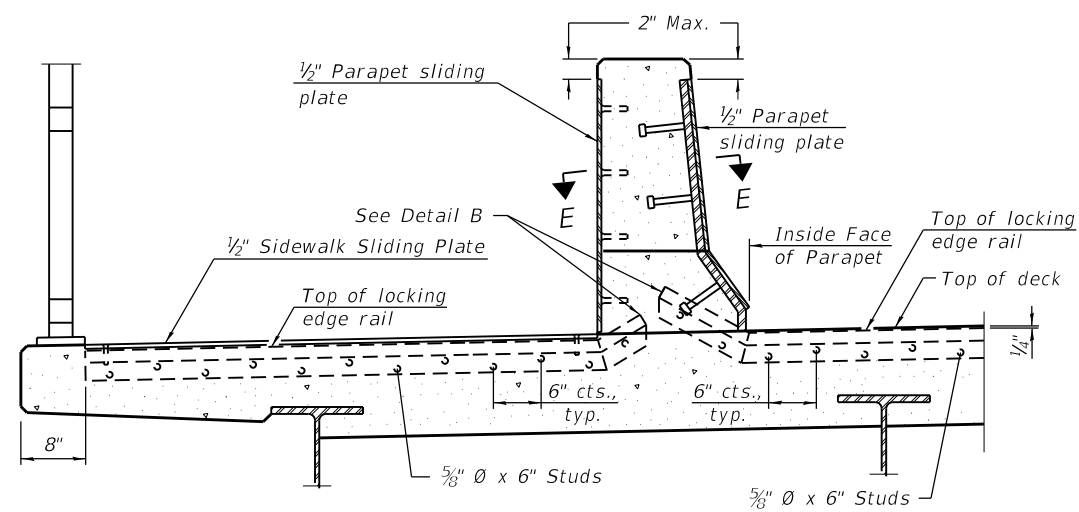
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 72 (HIGGINS) WB OVER E.J. AND E. RR.  
PREFORMED JOINT STRIP SEAL - SIDEWALK  
S.N. 016-0502

SCALE: SHEET 9 OF 10 SHEETS STA. TO STA.

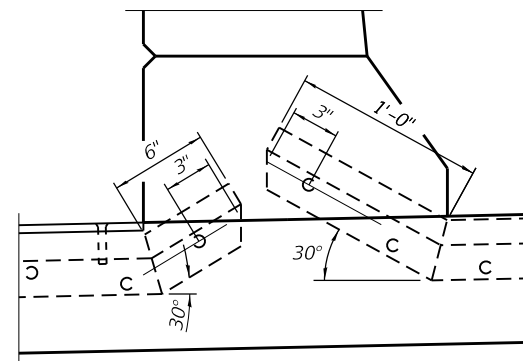
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341	2018-053-B-R	COOK	34	12
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	

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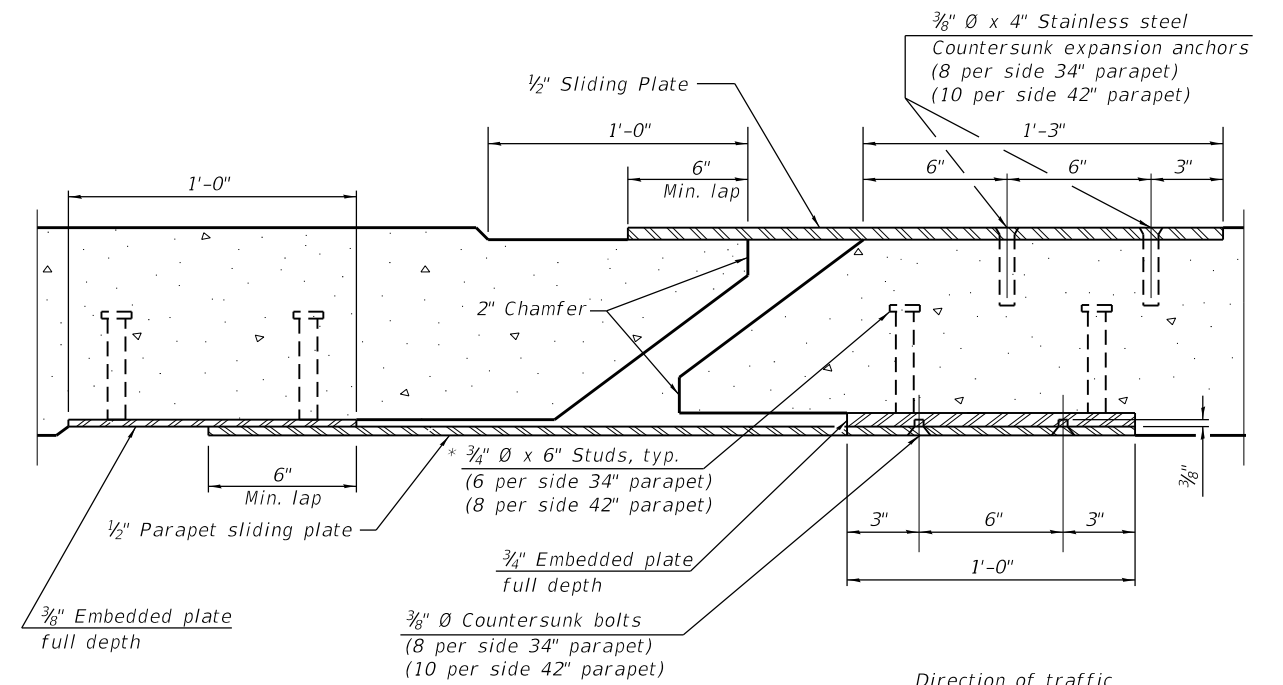


**ELEVATION AT DECK LEVEL SIDEWALK**

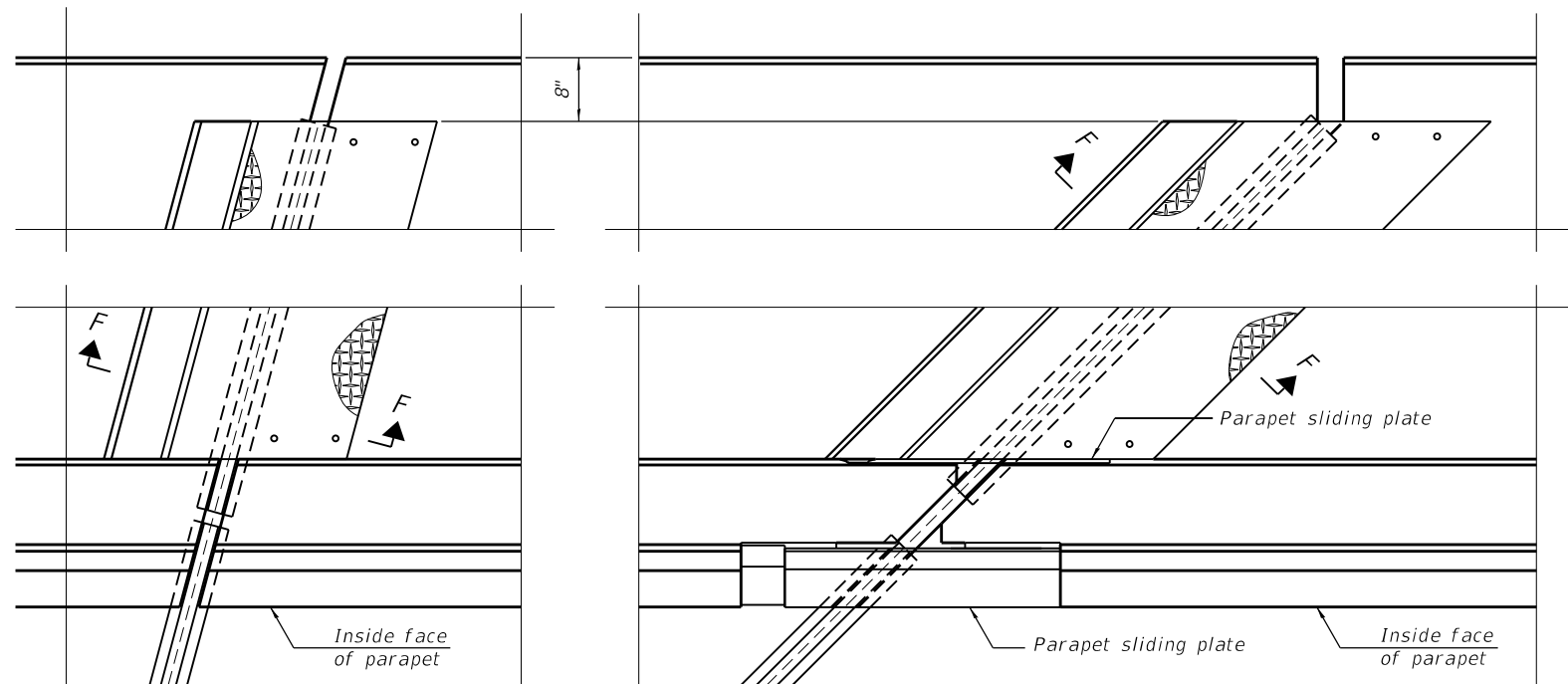
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



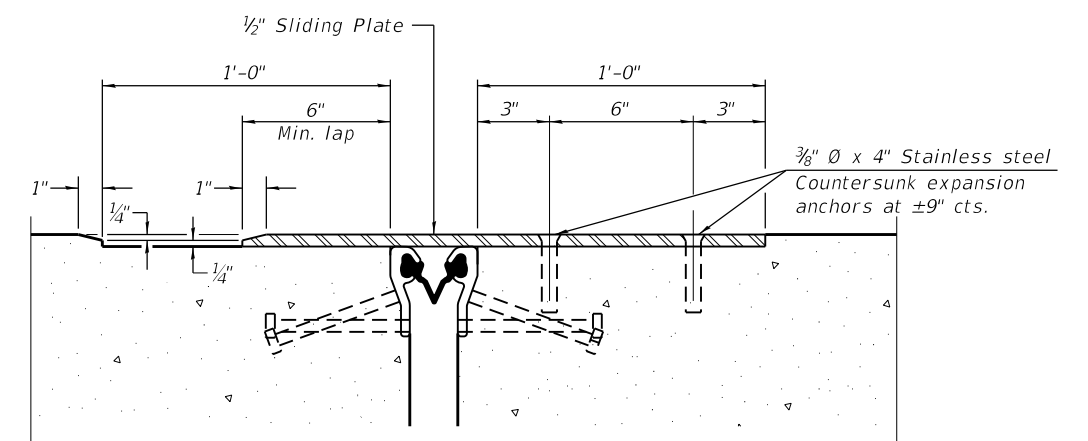
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

EJ-SS-S

8-11-17

(Sheet 3 of 3)

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 72 (HIGGINS) WB OVER E.J. AND E. RR.  
PREFORMED JOINT STRIP SEAL - SIDEWALK  
S.N. 016-0502**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	13
CONTRACT NO. 62G94				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 10 OF 10 SHEETS STA. TO STA.

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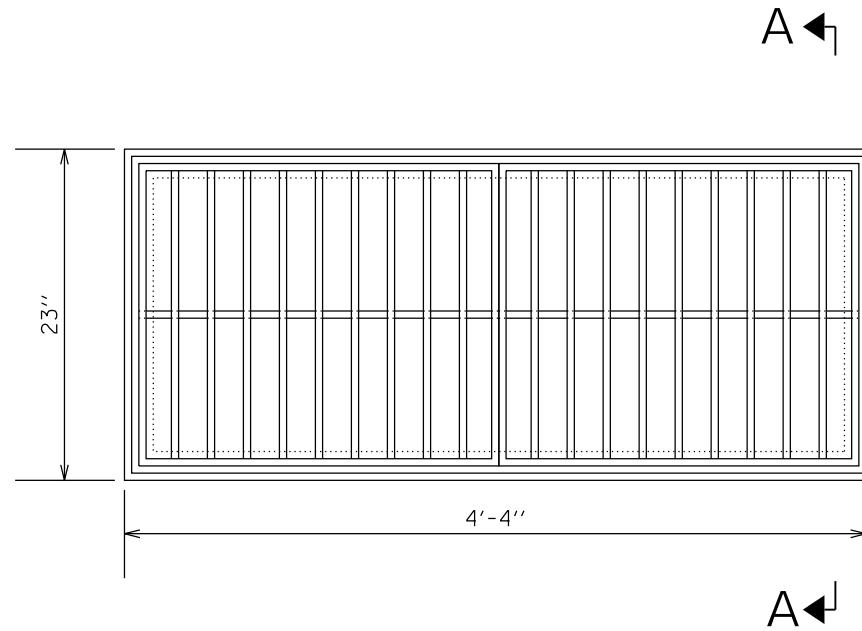
**NOTES:**

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS OF THE EXISTING SCUPPER AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OF NEW ADJUSTING RING OR ORDERING OF MATERIAL FOR ADJUSTING DRAINAGE SCUPPER.
2. ALL STEEL GRATES AND FRAMES SHALL CONFORM TO ARTICLE 710.04 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED TO AASHTO SPECIFICATION M III AFTER FABRICATION
3. ADJUSTING RING SHALL BE FROM NEENAH AND APPROVED EQUAL. STRUCTURAL STEEL WELDMENTS OR EQUAL SECTIONS AND OF THE SAME CONFIGURATION MAY BE SUBMITTED FOR STEEL. FILLET OR FULL PENETRATION WELDS MAY BE USED FOR WELDMENTS. DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
4. PROVIDE A 1/8" FILLET WELD AROUND THE PERIMETER OF NEW ADJUSTING RING TO SECURE TO EXISTING INLET BOX. ELECTRODE SHALL BE COMPATIBLE WITH STEEL.
5. COST OF ALL LABOR AND MATERIALS NECESSARY TO INSTALL STRUCTURE ADJUSTING RINGS, REMOVE AND INSTALL NEW GRATES IS INCLUDED IN THE COST FOR DRAINAGE SCUPPER TO BE ADJUSTED.

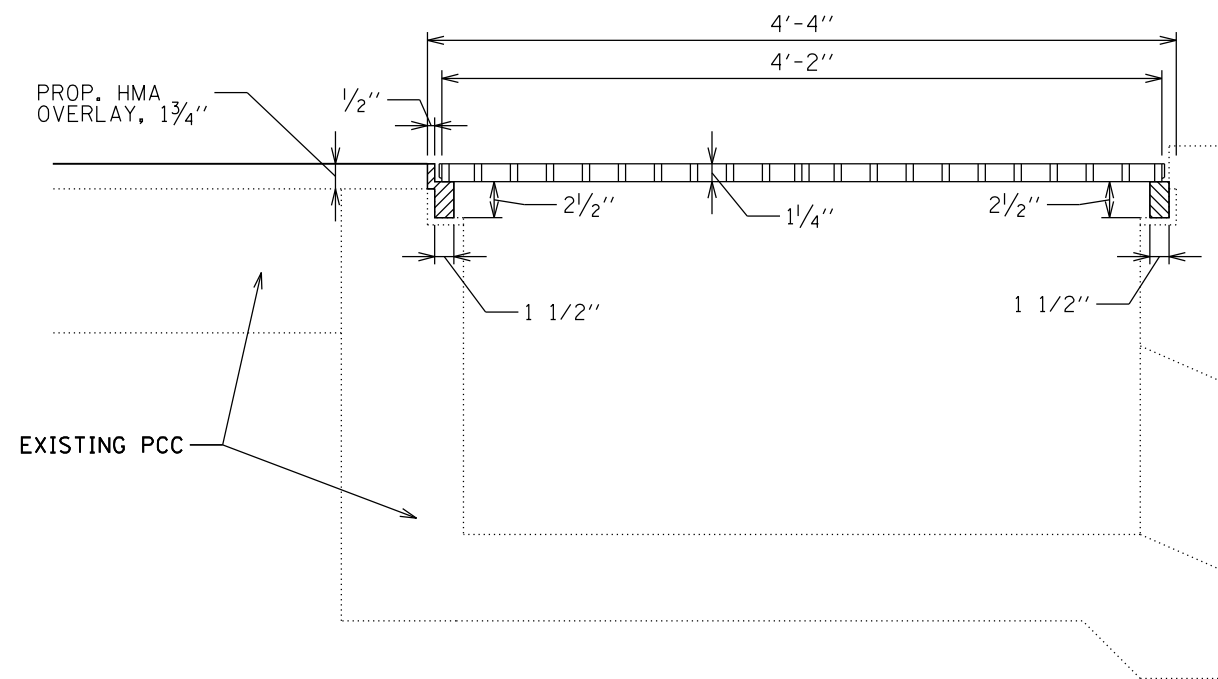
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
DRAINAGE SCUPPERS TO BE ADJUSTED*	EACH	2

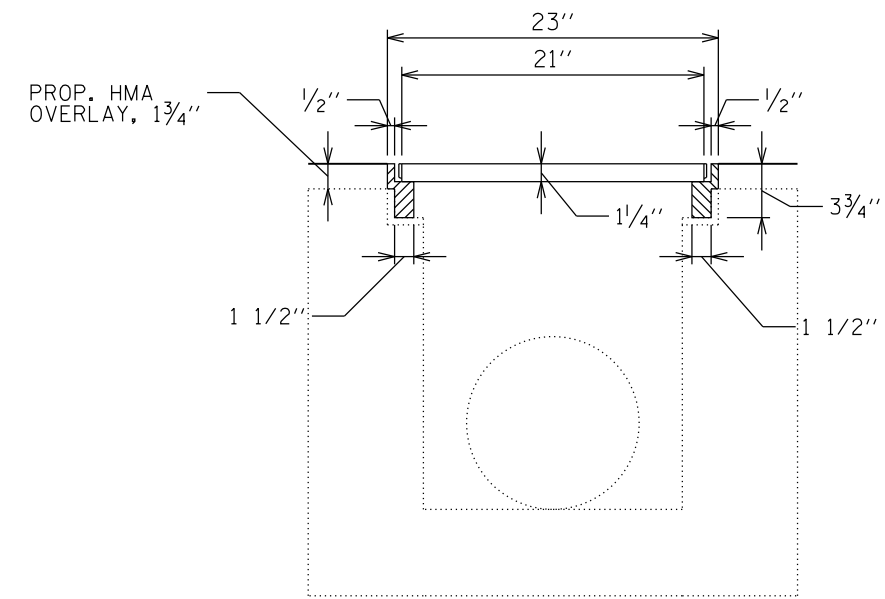
\* ITEM TO INCLUDE TWO (2) NEW 1 1/4" GRATES



**GRATE**



**INLET BOX**



**SECTION A-A**

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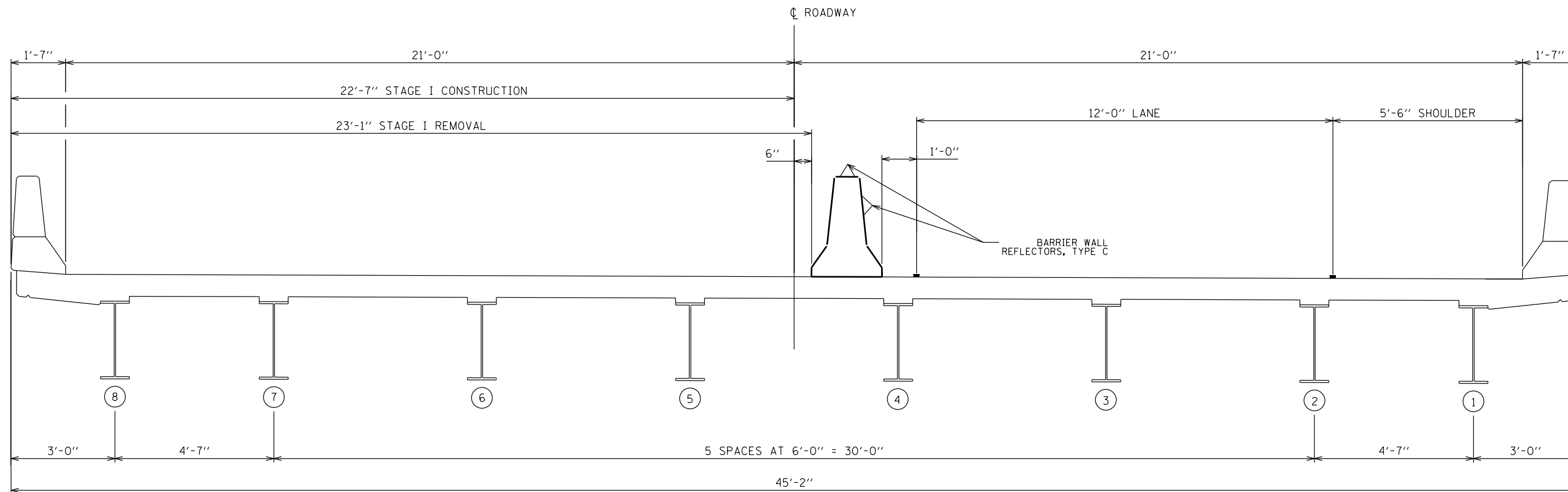
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

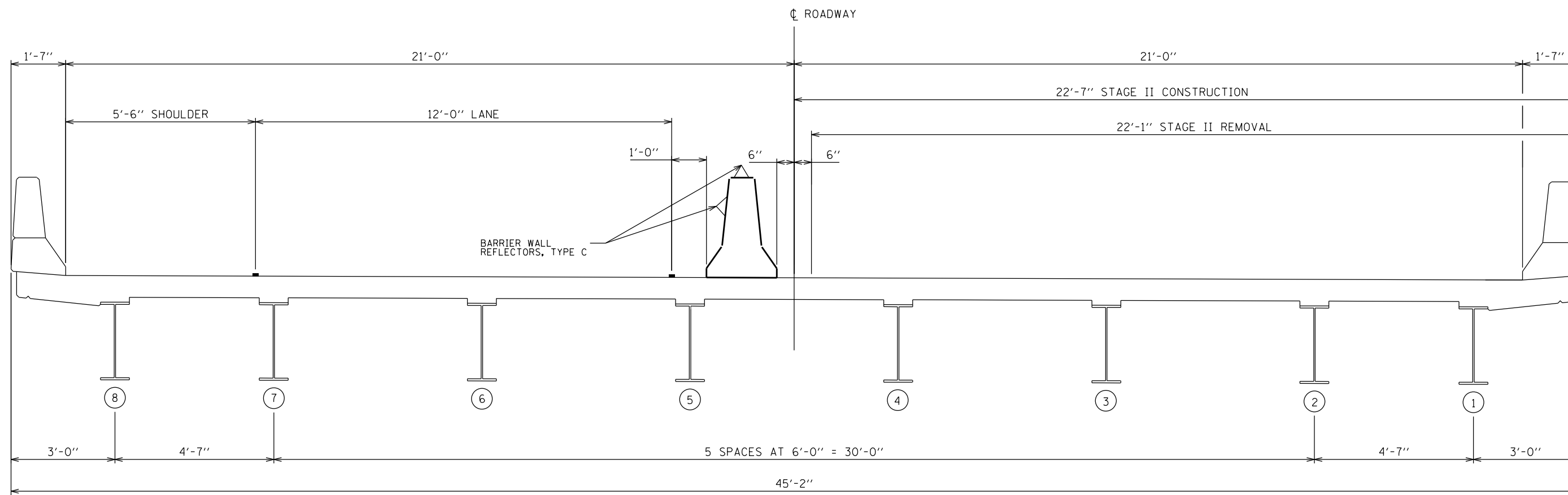
**ADJUSTING DRAINAGE STRUCTURE DETAILS  
IL 72 (WB) OVER WCL RR**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	14
CONTRACT NO. 62G94				
ILLINOIS FED. AID PROJECT				



**STAGE I CROSS SECTION**  
(LOOKING WEST)



**STAGE II CROSS SECTION**  
(LOOKING WEST)

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PLOT DATE = 8/16/2019	DATE -	REVISED -

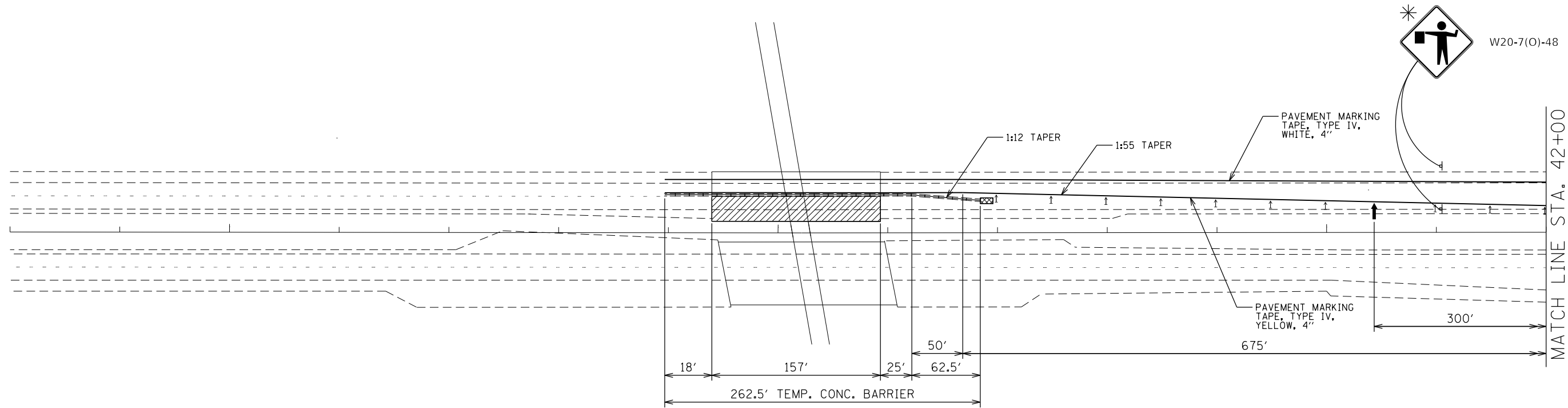
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGING CROSS SECTION**  
**IL 72 (WB) OVER WCL RR**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	15
CONTRACT NO. 62G94				
ILLINOIS FED. AID PROJECT				





**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▣ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- ▬ TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

\* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

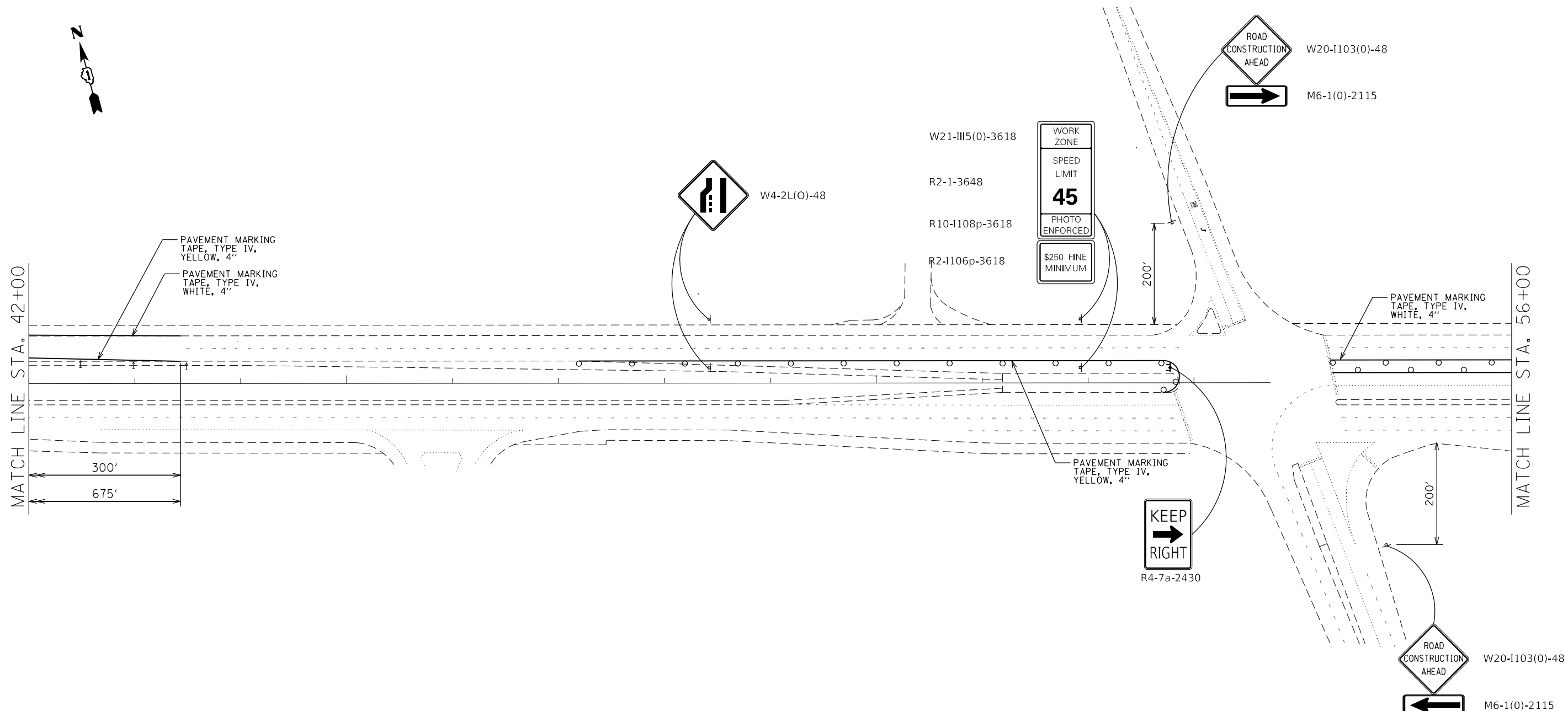
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PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STAGING PLAN (STAGE I) IL 72 (WB) OVER WCL RR</b>			
SCALE:	SHEET 1	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	16
CONTRACT NO. 62G94				
ILLINOIS		FED. AID PROJECT		



**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▩ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

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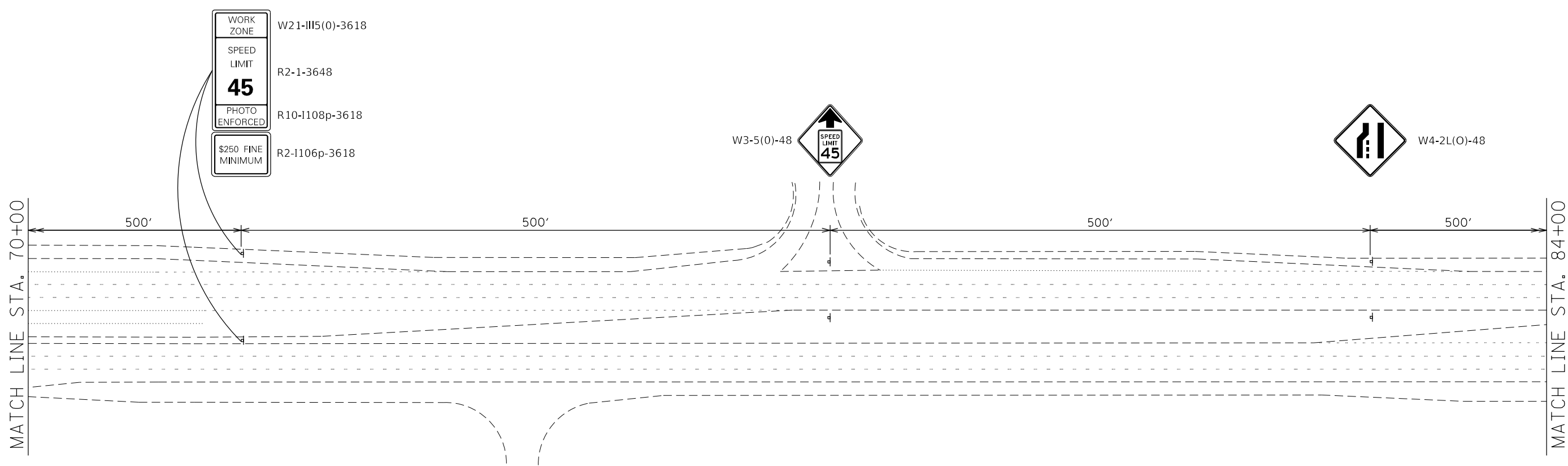
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PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

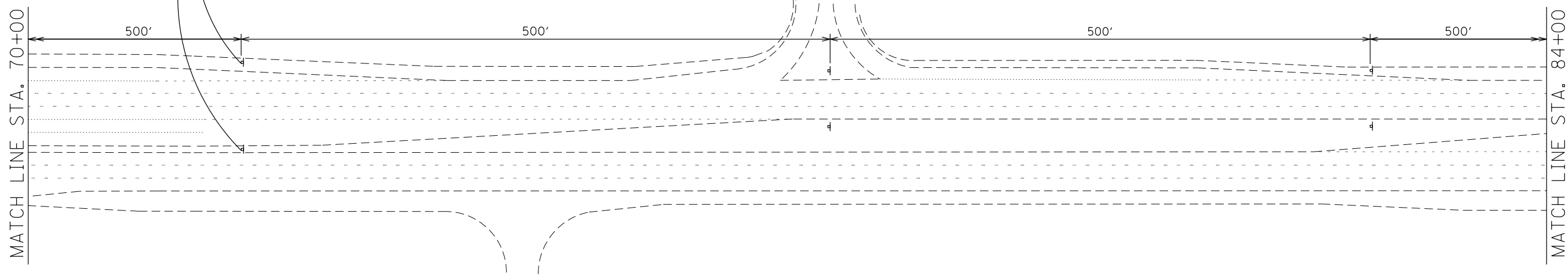
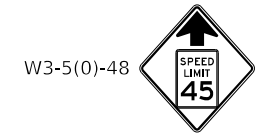
<b>STAGING PLAN (STAGE I) IL 72 (WB) OVER WCL RR</b>			
SCALE:	SHEET 2	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	17
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	





WORK ZONE	W21-III5(0)-3618
SPEED LIMIT	R2-1-3648
<b>45</b>	
PHOTO ENFORCED	R10-1108p-3618
\$250 FINE MINIMUM	R2-1106p-3618



**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▩ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/16/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN (STAGE I)  
IL 72 (WB) OVER WCL RR**

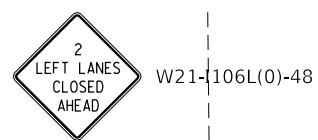
SCALE:	SHEET 4	OF 5	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	19
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	

MATCH LINE STA. 84+00

500'

500'



**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▩ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

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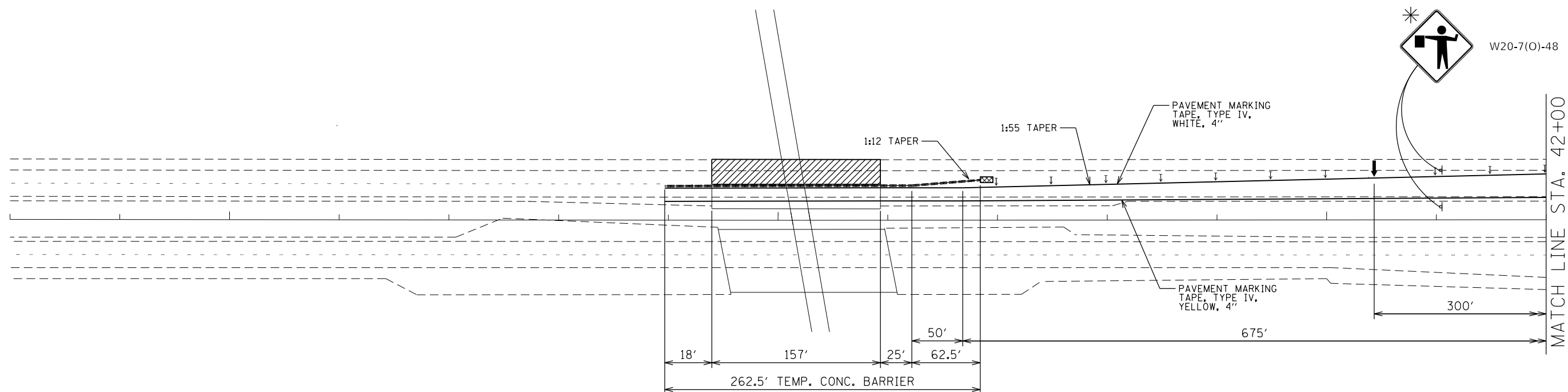
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PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN (STAGE I)  
IL 72 (WB) OVER WCL RR**

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	20
CONTRACT NO. 62G94				
ILLINOIS		FED. AID PROJECT		



**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▣ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- ▬ TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

\* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

MODEL: Default  
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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

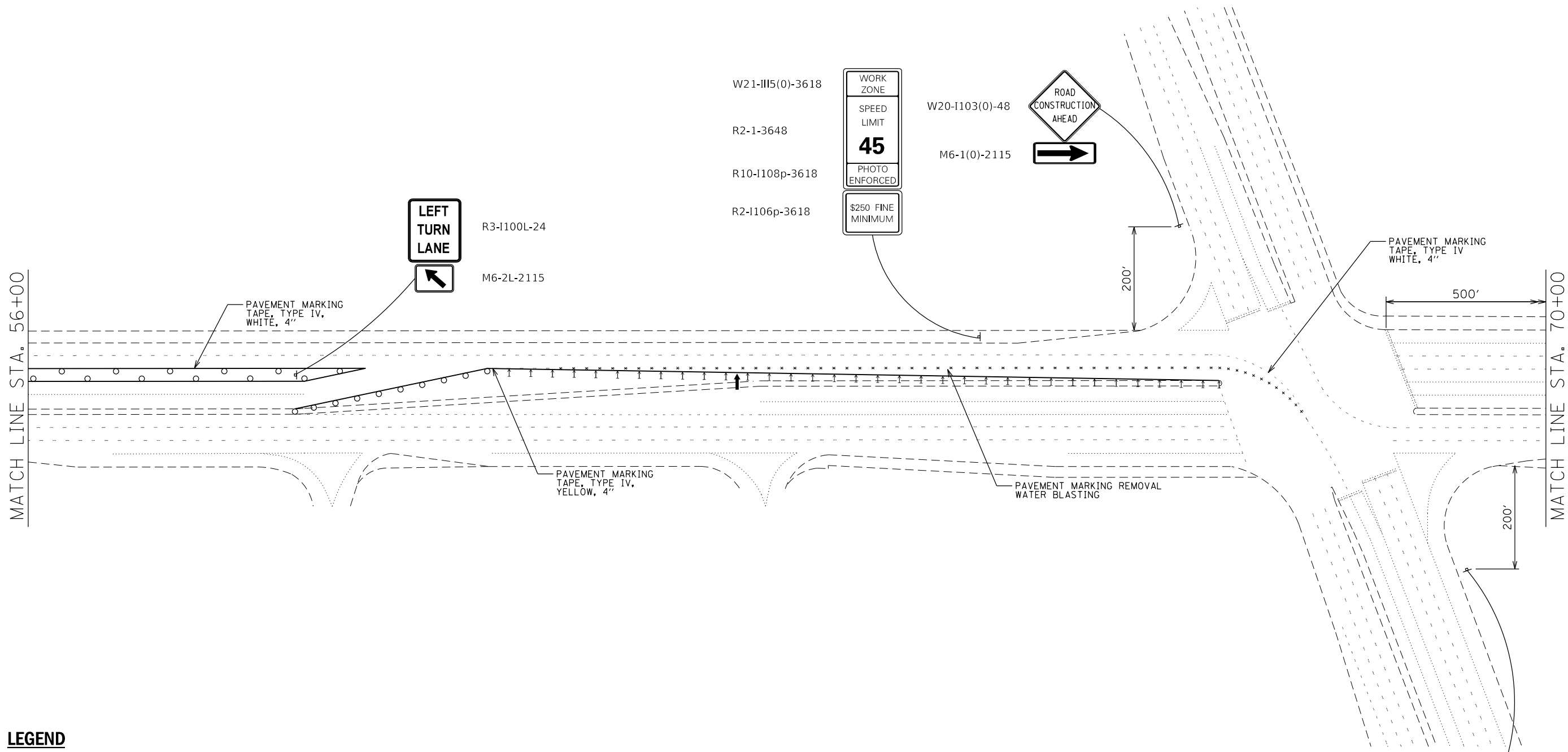
**STAGING PLAN (STAGE II)  
IL 72 (WB) OVER WCL RR**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	21
CONTRACT NO. 62G94				
ILLINOIS		FED. AID PROJECT		



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**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▩ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

USER NAME = rothjp	DESIGNED -	REVISED -
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PLOT DATE = 8/16/2019	DATE -	REVISED -

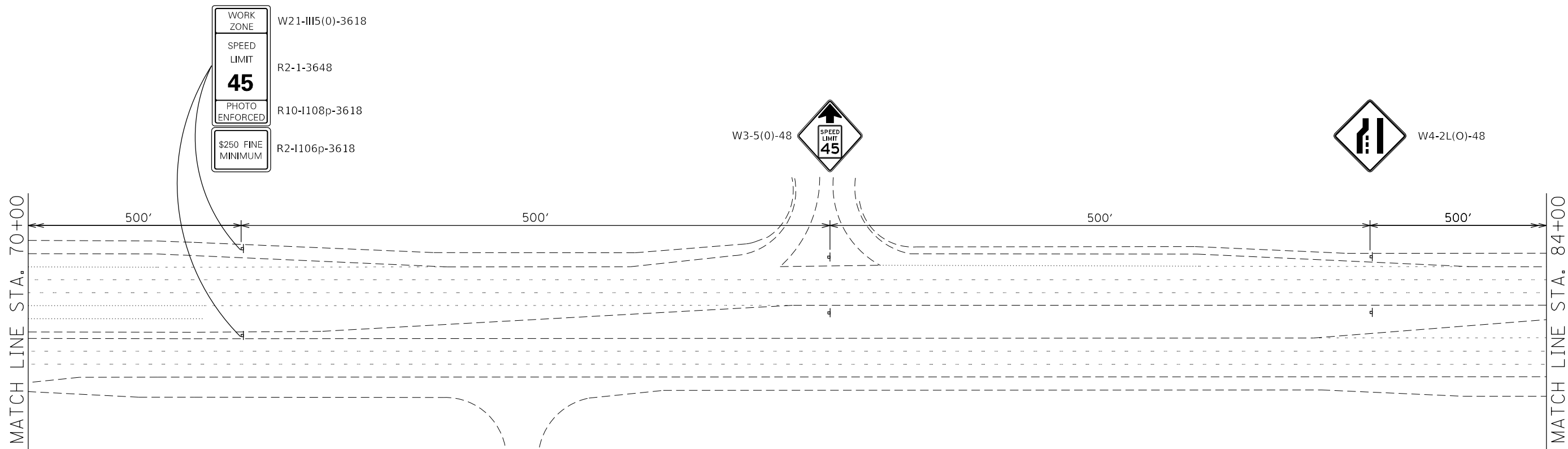
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN (STAGE II)  
 IL 72 (WB) OVER WCL RR**

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	23
CONTRACT NO. 62G94				
ILLINOIS FED. AID PROJECT				

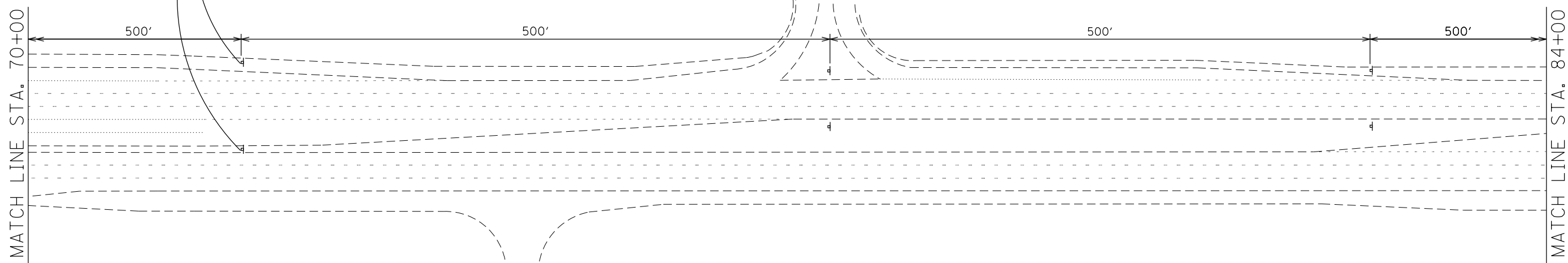




WORK ZONE W21-III5(0)-3618  
 SPEED LIMIT R2-1-3648  
**45**  
 PHOTO ENFORCED R10-I108p-3618  
 \$250 FINE MINIMUM R2-I106p-3618

W3-5(0)-48  
 SPEED LIMIT 45

W4-2L(0)-48



**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▩ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

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PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN (STAGE II)  
 IL 72 (WB) OVER WCL RR**

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	24
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	

MATCH LINE STA. 84+00

500'

500'



W20-5L(0)-48



W20-1103(0)-48

**LEGEND**

- ↑ DIRECTION INDICATOR BARRICADES PLACED AT 50' CENTERS
- ▨ WORK ZONE
- ▩ TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- DRUMS / TYPE II BARRICADES PLACED AT 50' C-C IN TANGENTS AND 10' C-C IN CURVES/RADII
- ↑ TYPE III BARRICADES

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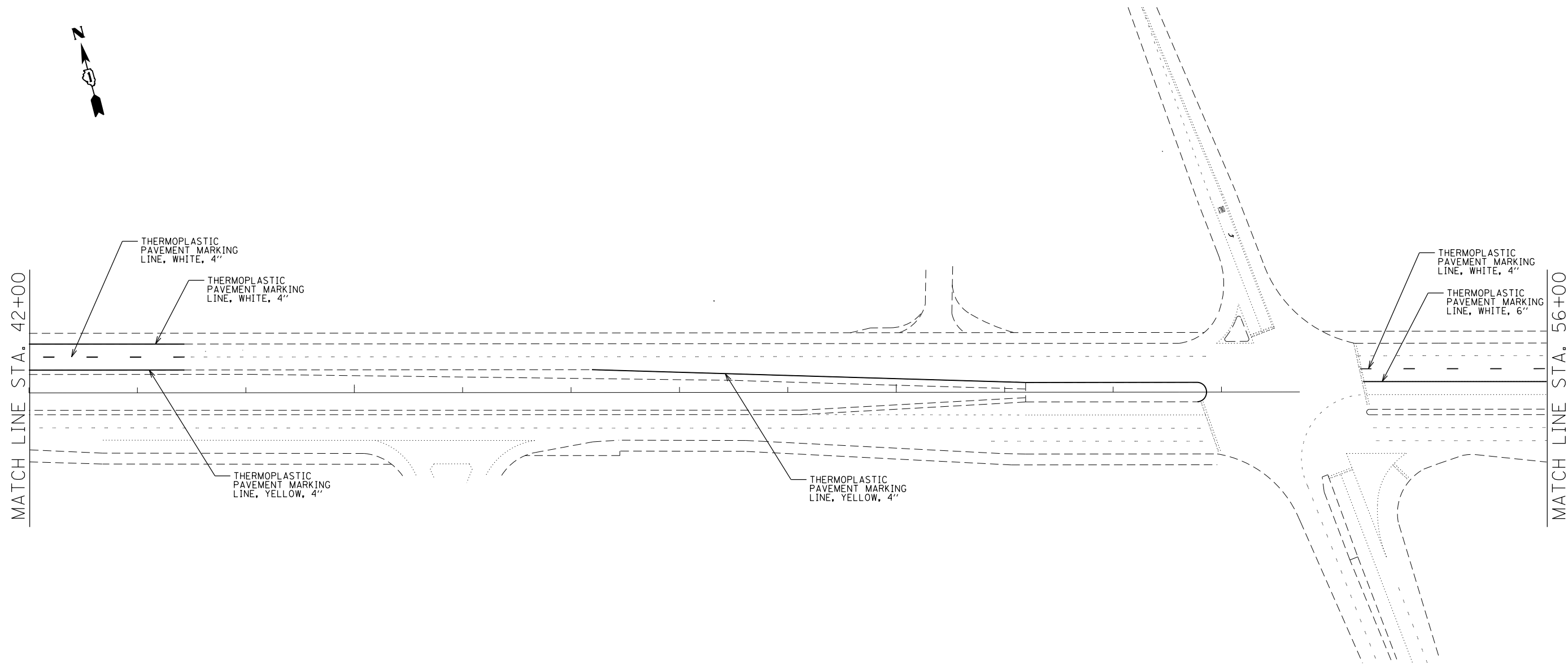
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PLOT DATE = 8/16/2019	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>STAGING PLAN (STAGE II)</b> <b>IL 72 (WB) OVER WCL RR</b>			
SCALE:	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	25
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	





MATCH LINE STA. 42+00

MATCH LINE STA. 56+00

THERMOPLASTIC PAVEMENT MARKING LINE, WHITE, 4"

THERMOPLASTIC PAVEMENT MARKING LINE, WHITE, 4"

THERMOPLASTIC PAVEMENT MARKING LINE, YELLOW, 4"

THERMOPLASTIC PAVEMENT MARKING LINE, YELLOW, 4"

THERMOPLASTIC PAVEMENT MARKING LINE, WHITE, 4"

THERMOPLASTIC PAVEMENT MARKING LINE, WHITE, 6"

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PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLAN</b>			
<b>IL 72 (WB) OVER WCL RR</b>			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G94	

MATCH LINE STA. 56+00

THERMOPLASTIC PAVEMENT MARKING LINE, WHITE, 4"

THERMOPLASTIC PAVEMENT MARKING LINE, WHITE, 6"

THERMOPLASTIC PAVEMENT MARKING LINE, YELLOW, 4"

THERMOPLASTIC PAVEMENT MARKING DOTTED LINE, WHITE, 6"

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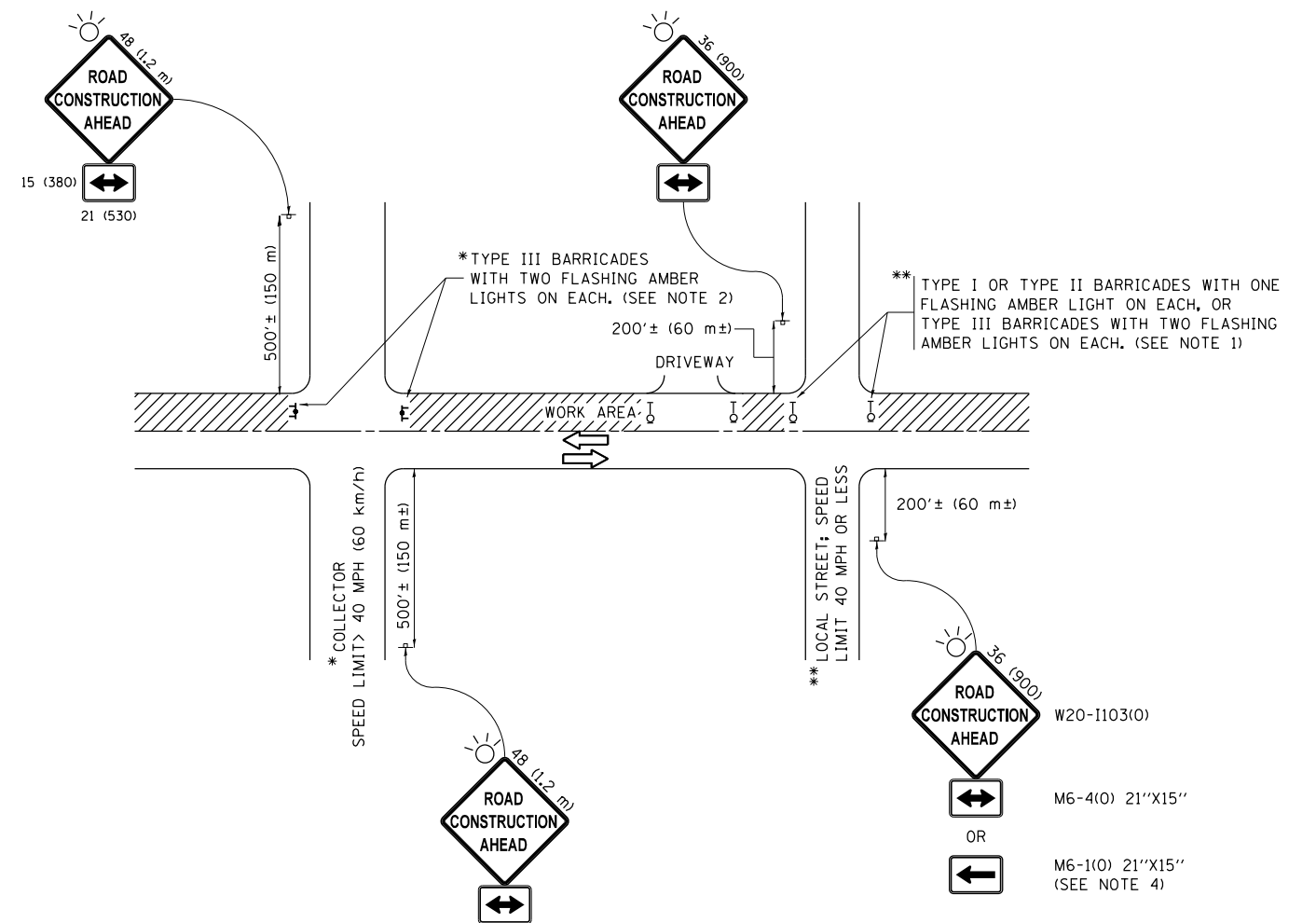
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	DRAWN -	REVISED -
PLOT SCALE = 100.0134' / in.	CHECKED -	REVISED -
PLOT DATE = 8/16/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 IL 72 (WB) OVER WCL RR**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	28
CONTRACT NO. 62G94			ILLINOIS FED. AID PROJECT	



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

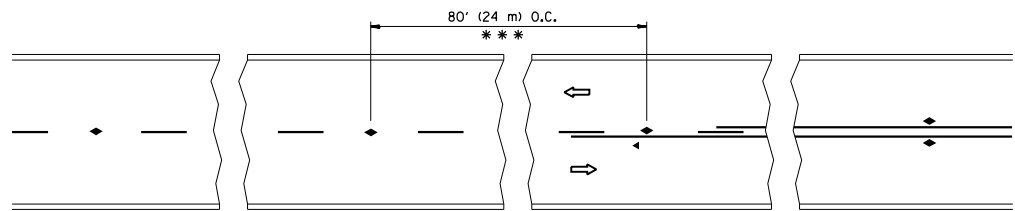
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	PLOT DATE = 8/16/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

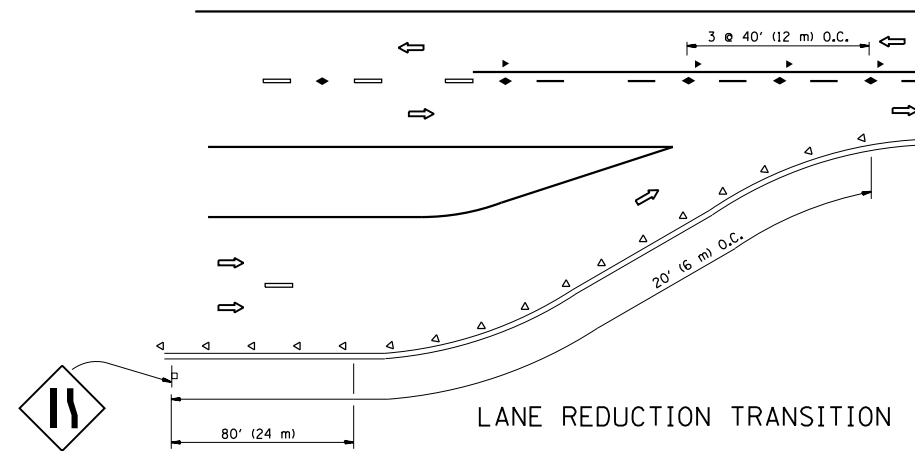
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			<b>CONTRACT NO. 62G94</b>	
ILLINOIS FED. AID PROJECT				

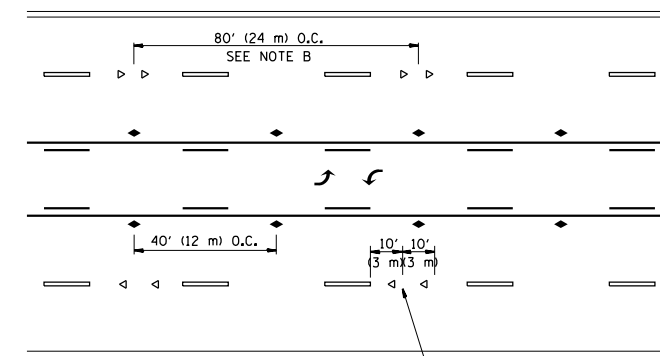


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

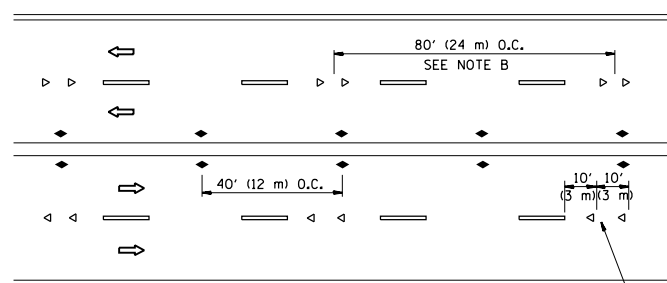
TWO-LANE/TWO-WAY



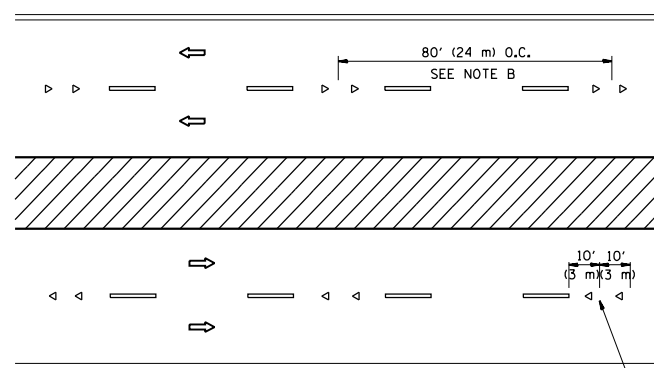
LANE REDUCTION TRANSITION



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

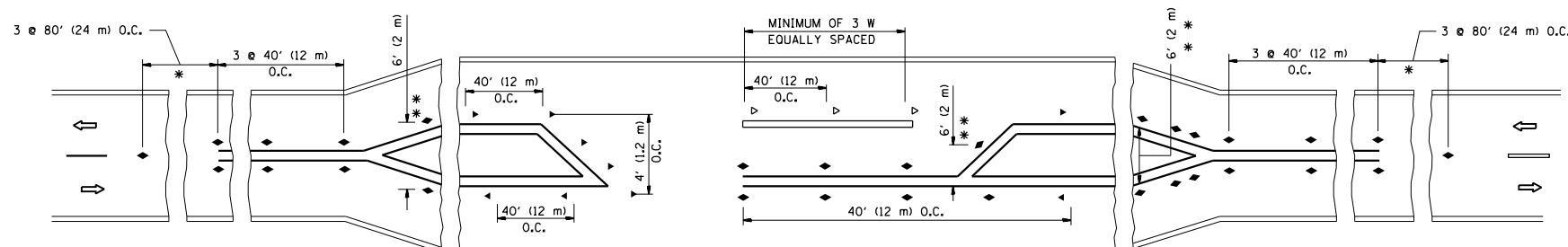
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
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.

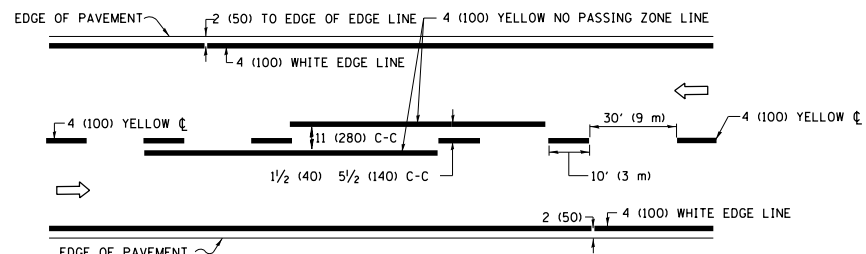
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	PLOT DATE = 8/16/2019	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

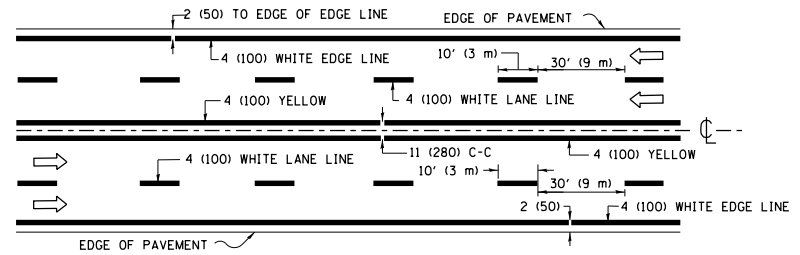
TYPICAL APPLICATIONS  
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

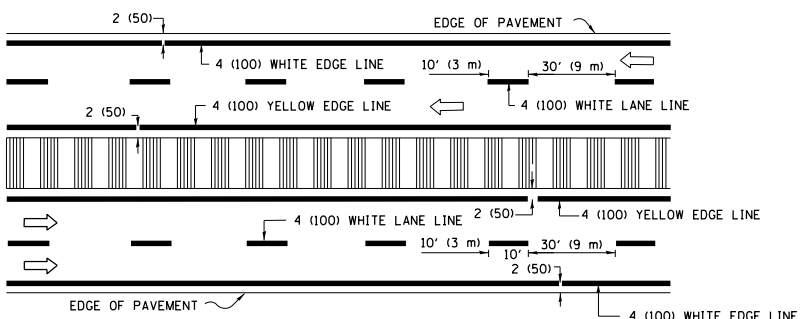
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	30
TC-11		CONTRACT NO. 62G94		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

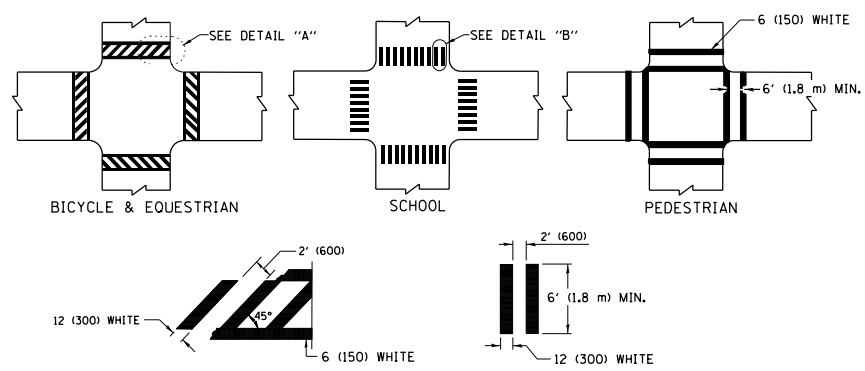


**MULTI-LANE UNDIVIDED**



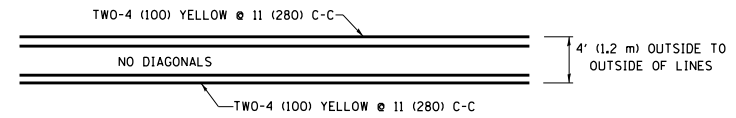
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

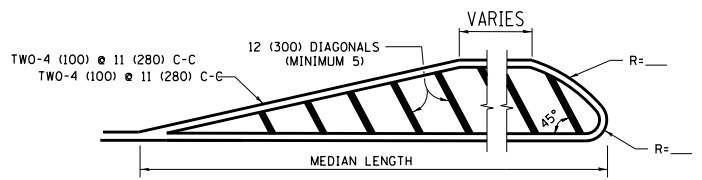


**TYPICAL CROSSWALK MARKING**

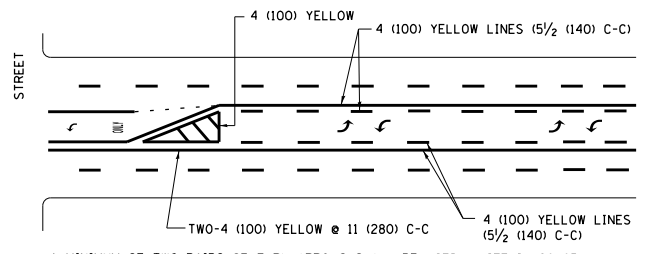
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



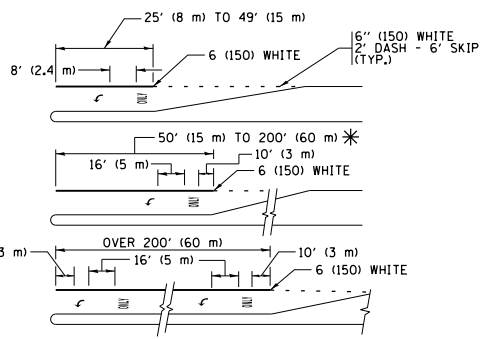
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



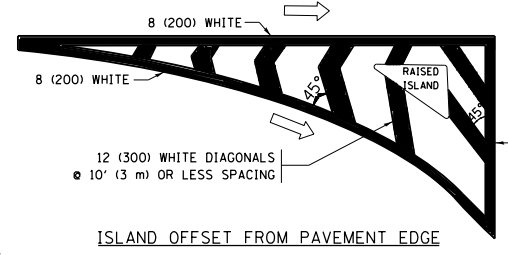
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



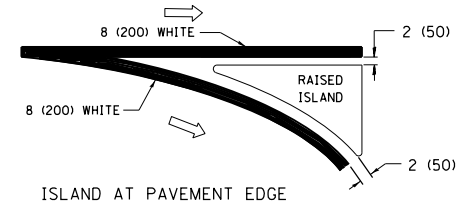
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

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

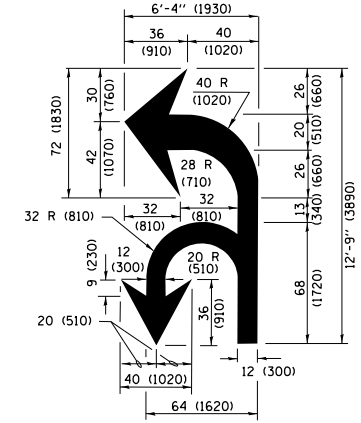
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



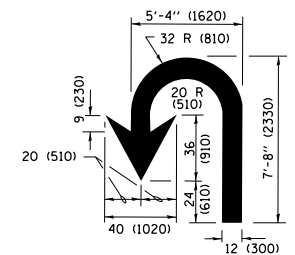
**ISLAND OFFSET FROM PAVEMENT EDGE**



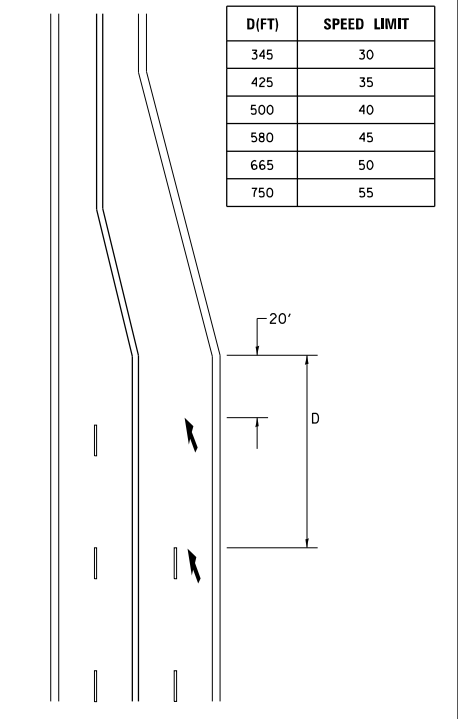
**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**



**LANE REDUCTION TRANSITION**  
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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	5/2 (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 MEDIANS IN YELLOW
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; 5/2 (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 <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

FILE NAME =	USER NAME = rothjp	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
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	PLOT DATE = 8/16/2019		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

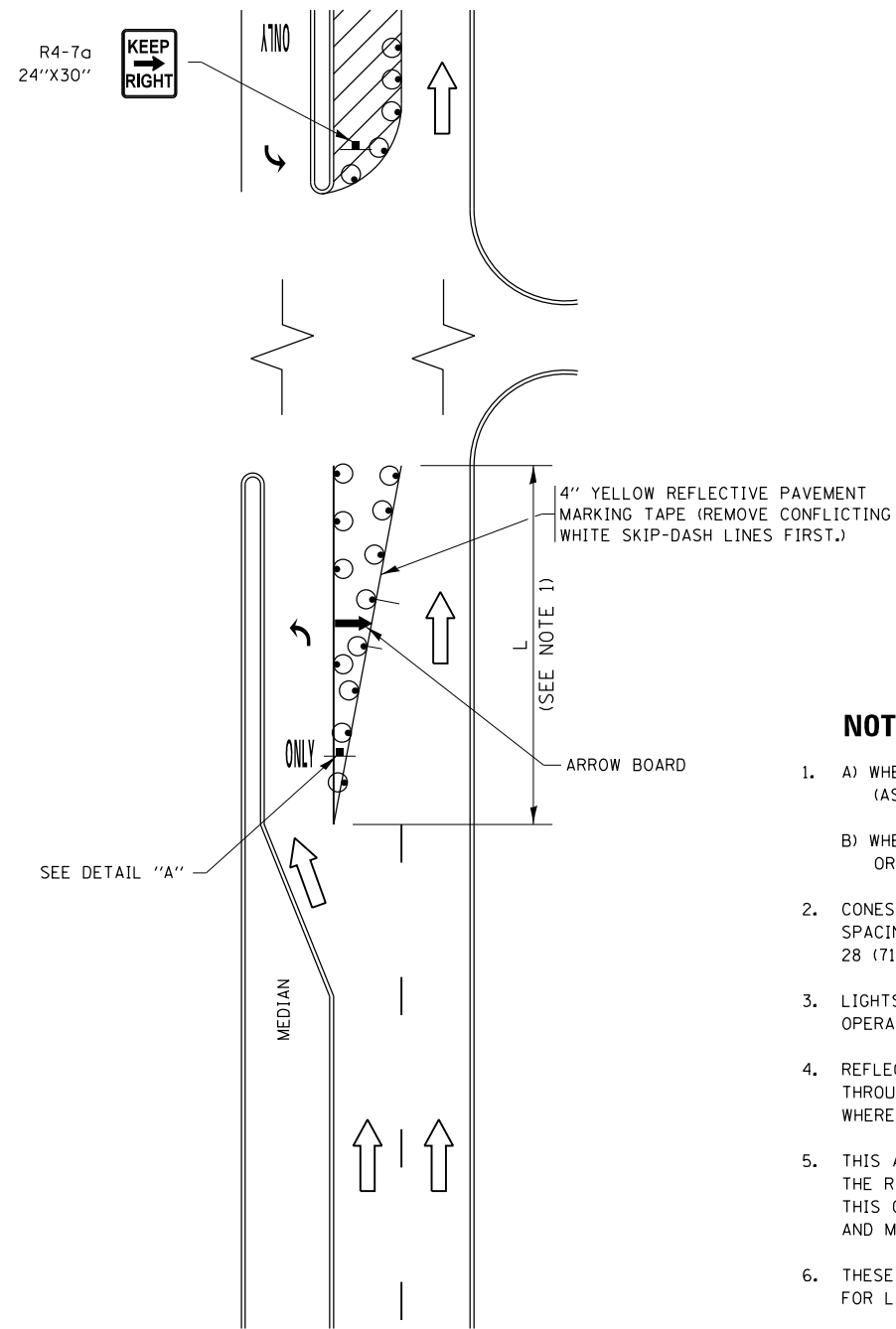
**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	31
<b>TC-13</b>		<b>CONTRACT NO. 62C94</b>		
ILLINOIS FED. AID PROJECT				

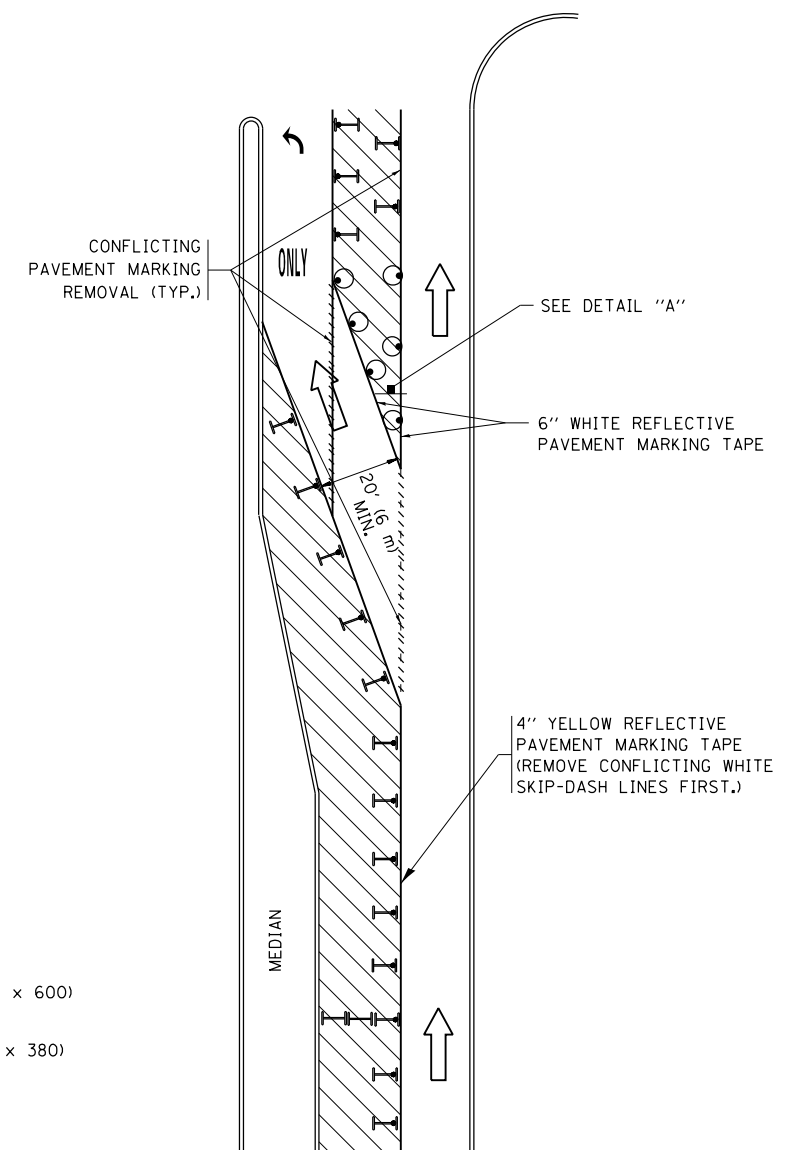


# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

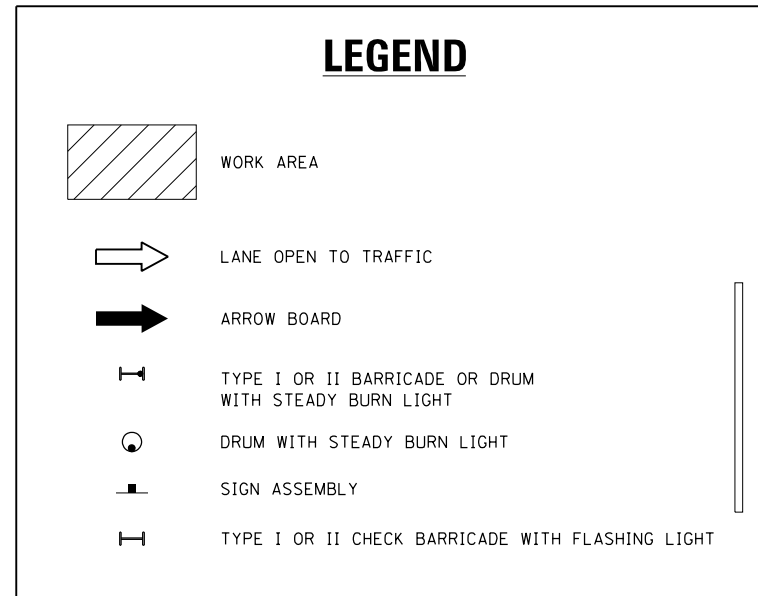


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

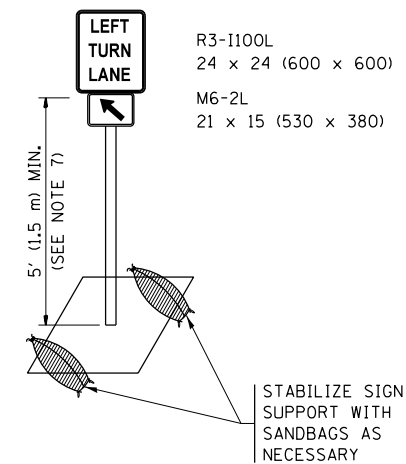


**FIGURE 2**



### NOTES:

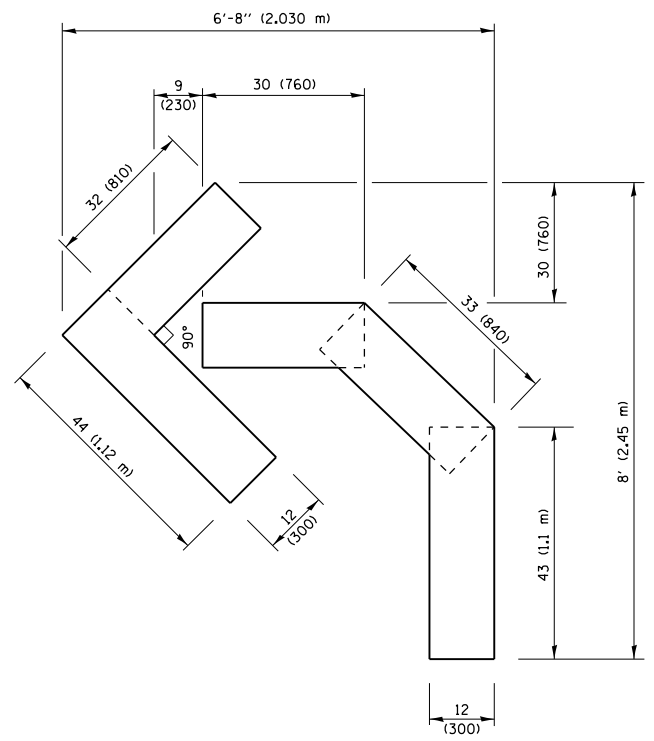
1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



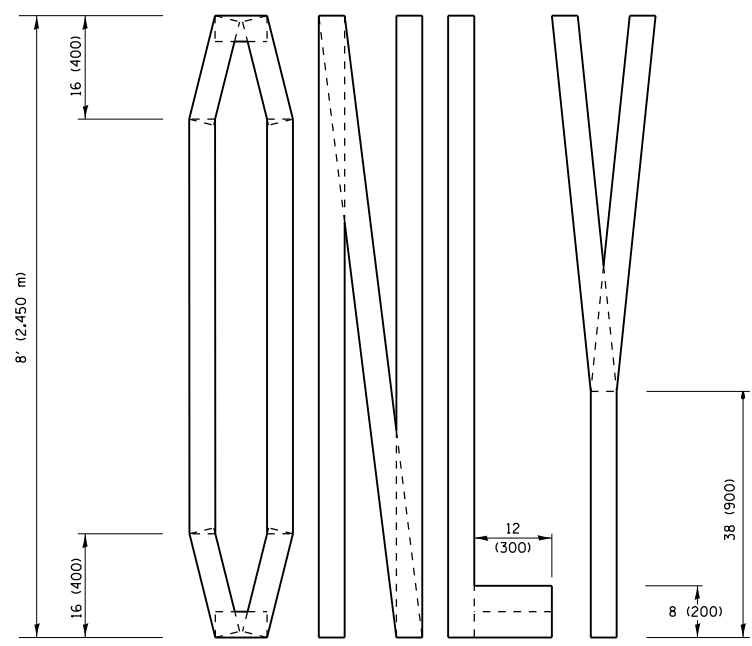
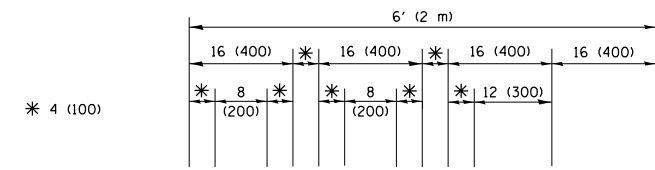
**DETAIL A**

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

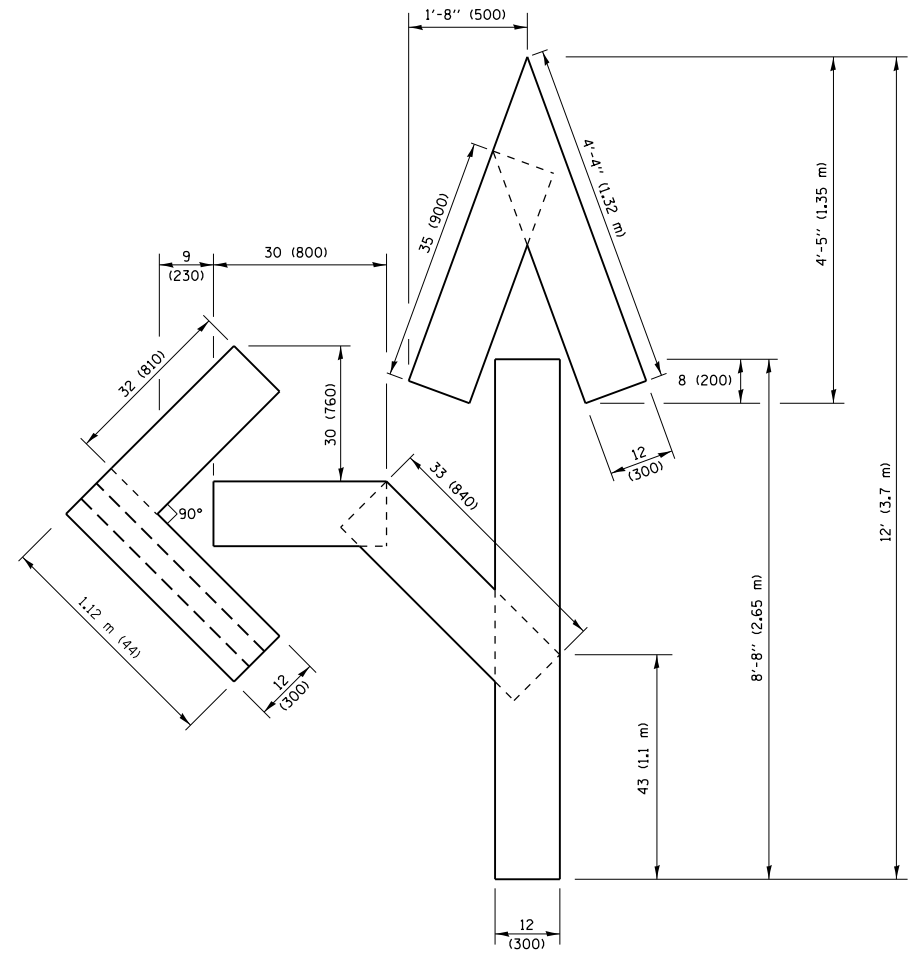
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pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\0135618\REVISED Design\A1\HOUSEH 11-07-95	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 07-01-13			341	2018-053-B-R	COOK	34	32	
Default	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			<b>TC-14</b>		<b>CONTRACT NO. 62C94</b>			
	PLOT DATE = 8/16/2019	REVISED - T. RAMMACHER 01-06-00	REVISED -			SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.	



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

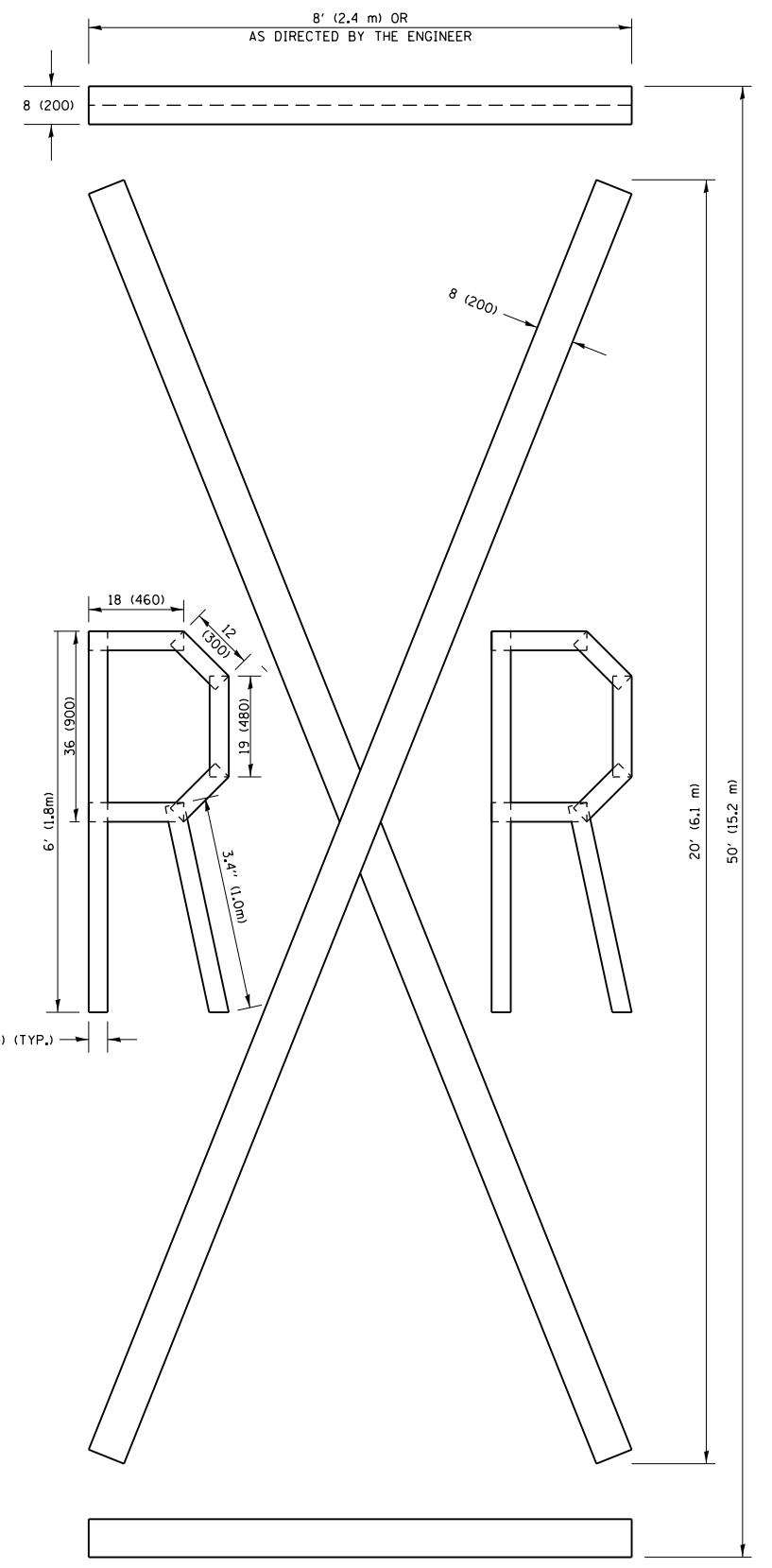


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

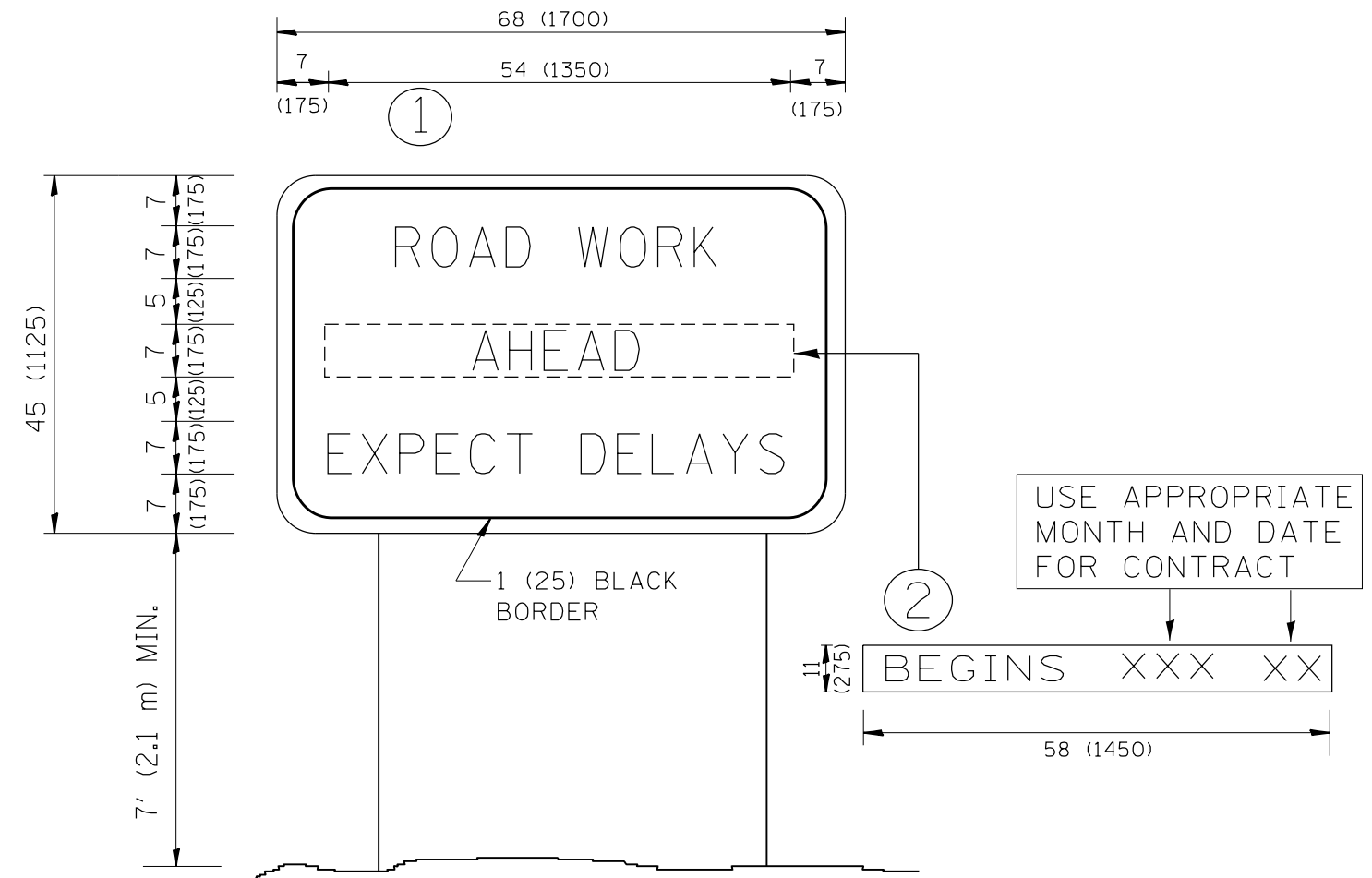
All dimensions are in inches (millimeters) unless otherwise shown.

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		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2018-053-B-R	COOK	34	33
<b>TC-16</b>			<b>CONTRACT NO. 62094</b>	
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 =	USER NAME = rothjp	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\013561\B\DRAWING\Design\DistStd.dgn		REVISOR	REVISED - R. MIRS 12-11-97			341	2018-053-B-R	COOK	34	34	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>		<b>CONTRACT NO. 62094</b>			
	PLOT DATE = 8/16/2019	DATE -	REVISED - C. JUCIUS 01-31-07			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.		TO STA.	