11-5-2021 LETTING ITEM 018

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

2021-117-BP

D-91-200-21

PROPOSED FOR INDEX OF SHEETS, SEE SHEET NO. 2 THESE IMPROVEMENTS ARE LOCATED IN THE VILLAGES OF HIGHWAY PLANS

HIGHLAND PARK, NORTHBROOK, GLENCOE AND CITY OF DES PLAINES

I-94 (EDENS EXPWY) 2019 ADT = 129600

POSTED SPEED LIMIT = 55 MPH

US-41 (SKOKIE HWY) 2018 ADT = 62400

POSTED SPEED LIMIT = 55 MPH

LAKE COOK RD

TRAFFIC DATA

2018 ADT = 31500

POSTED SPEED LIMIT = 40 MPH

IL-68 (DUNDEE RD) 2017 ADT = 34300

POSTED SPEED LIMIT = 35 MPH

IL-58 (GOLF RD)

2017 ADT = 28100

POSTED SPEED LIMIT = 40 MPH

US-14 (NORTHWEST HWY)

2019 ADT = 16100

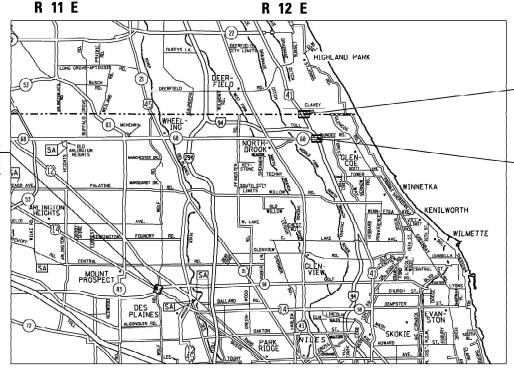
POSTED SPEED LIMIT = 40 MPH

LOCATION 3: (SN-016-0236) US-14 (NORTHWEST HWY) OVER IL-58 (GOLF RD) 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 EXCAVATORS 1-800-892-0123

PROJECT MANAGER: ALAIN MIDY (847) 221–3056 PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705–4580

1) F.A.P. 379: LAKE COOK RD OVER US-41 2) F.A.P. 343: IL-68 (DUNDEE RD) OVER I-94 (EDENS EXPWY) 3) F.A.U. 3512: US-14 (NORTHWEST HWY) OVER IL-58 (GOLF RD) **SECTION 2021–117–BP** PROJECT NHPP-9NX6(309) **BRIDGE PAINTING** COOK COUNTY

C-91-239-21



MORAINE, NORTHFIELD, NEW TRIER, MAINE TOWNSHIPS

LOCATION OF SECTION INDICATED THUS: - -

LOCATION 1: (SN-016-0811) LAKE COOK RD OVER US-41 (SKOKIE HWY)

VARIOUS

ROUTES

LOCATION 2: (SN-016-0939) IL-68 (DUNDEE RD) OVER I-94 (EDENS EXPWY)

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 62P46

INDEX OF SHEETS

1	COVER SHEET	STANDARD NO.	
2	INDEX OF SHEETS AND GENERAL NOTES	701106-02	0
3-4	SUMMARY OF QUANTITIES	701400-10	Α
5-10	EXISTING BRIDGE PLANS (SN-016-0811)	701401-12	L
11-15	EXISTING BRIDGE PLANS (SN-016-0939)	701411-09	L F
16-20	EXISTING BRIDGE PLANS (SN-016-0236)	701427-05	L F
21-24	SUGGESTED MAINTENANCE OF TRAFFIC (LOCATION 3)	701428-01	Т
25	PAVEMENT MARKING PLAN (LOCATION 3)	70.446	
26	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701446-11	T
27	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)	701606-10	U 2
28	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	701611-01	U
29	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	701801-06	S
30	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701901-08	T
31	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND	704001-08	Т
	PARTIAL RAMP CLOSURES (TC-17)	782006-01	GI
32	ARTERIAL ROAD INFORMATION SIGN (TC-22)		М

GENERAL PAINT NOTES

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SPIO.

THE AREAS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1, THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2. 5YR 3/4.

A MINIMUM OF 2 AIR MONITORS FOR STRUCTURES (SN-016-0236) AND (SN-016-0811), WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THESE SITES. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

STATE STANDARDS

STANDARD NO.	DESCRIPTION
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF HIGHLAND PARK, NORTHBROOK, GLENCOE AND CITY OF DES PLAINES.
- 2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO 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.
- 4. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- 5. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 8. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE OUTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
- 9. THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY FOUR (24)1 HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
- 10. THE CONTRACTOR SHALL CLOSE LANES ON THE EXPRESSWAY IN ACCORDANCE WITH THE "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" CONTRACT SPECIAL PROVISIONS.
- 11. THE CONTRACTOR SHALL CONTACT DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA, KANNAN-HOSADURGA@ILLINOIS.GOV FOR ARTERIALS AND (847)705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 12. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN WORKING NEAR THE ABUTMENTS IF ELECTRICAL JUNCTION BOXES AND ATTACHED CONDUITS ARE PRESENT.
- 13. THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.
- 14. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

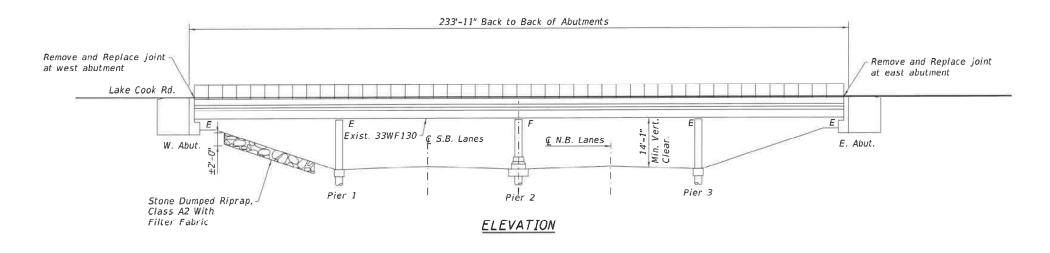
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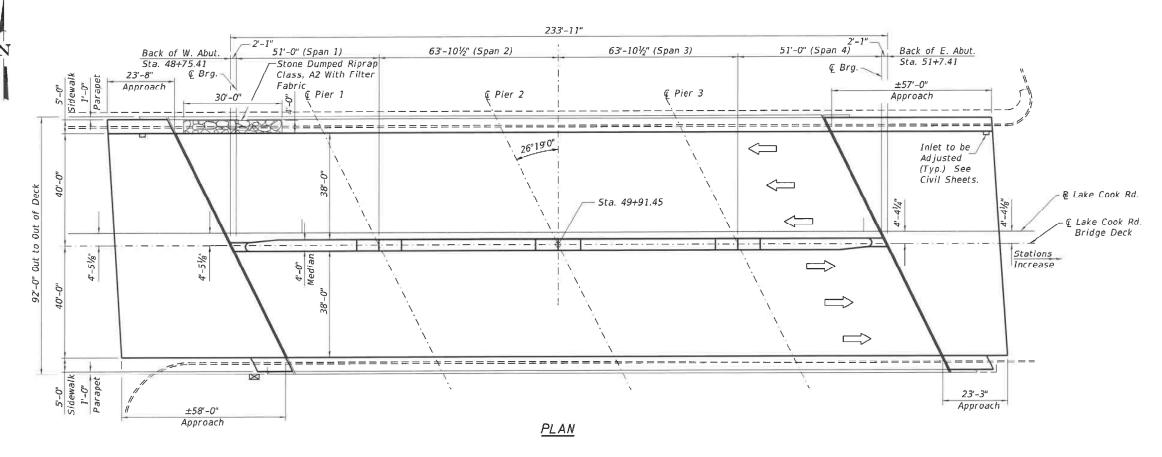
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	CENERAL	NOTES	CENERA	I DAINT	NOTES	VAR.	2021-117-BP	COOK & LAKE	32	2
	GENERAL NOTES, GENERAL PAINT NOTES							CONTRACT	NO. 62	2P46
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

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CODE NO		ITEM	UNIT	QUANTITIES	BRIDGE 1 SN 016-0811 80% FED 20% STATE	0047 BRIDGE 2 SN 016-0939 80% FED 20% STATE	SN 016-0236 80% FED 20% STATE			CODE NO	ITEM	UNIT	TOTAL QUANTITIES			
Z0007103	CONTAINMENT AND	DISPOSAL OF LEAD PAINT	L SUM	1			1									
	CLEANING RESIDL	JES NO. 3														
X5060602	CONTAINMENT AND	DISPOSAL OF NON-LEAD	L SUM	1		1										
	PAINT CLEANING	RESIDUES NO. 2														
Z0010501	CIFANING AND PA	AINTING STEEL BRIDGE NO.	L SUM	1	1											
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Z0010502	CLEANING AND PA	AINTING STEEL BRIDGE NO.	L SUM	1		1										
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Z0010503	CLEANING AND PA	AINTING STEEL BRIDGE NO.	L SUM	1			1									
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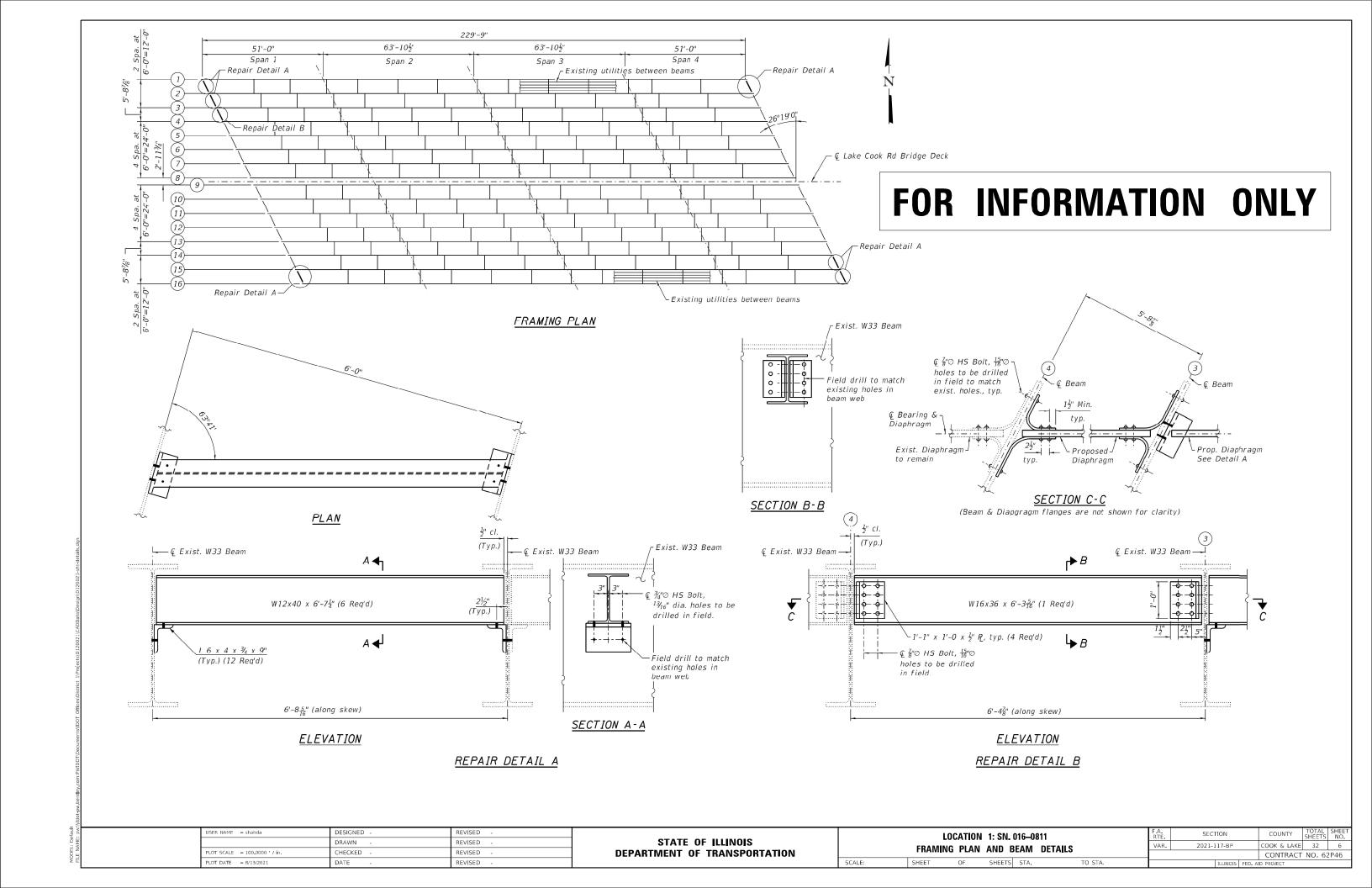


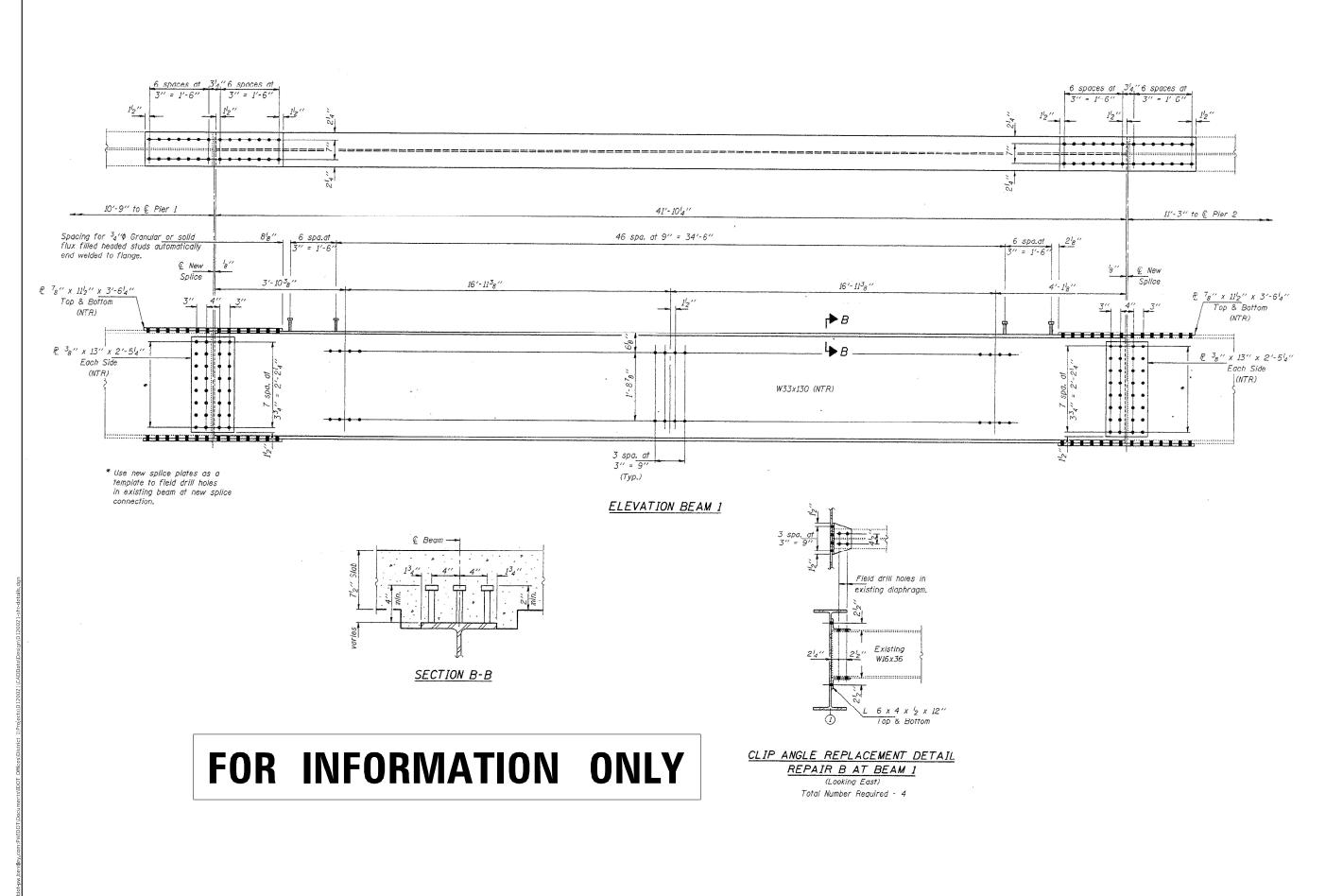
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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GENERAL PLAN AND ELEVATION							CONTRACT	NO. 62	2P46
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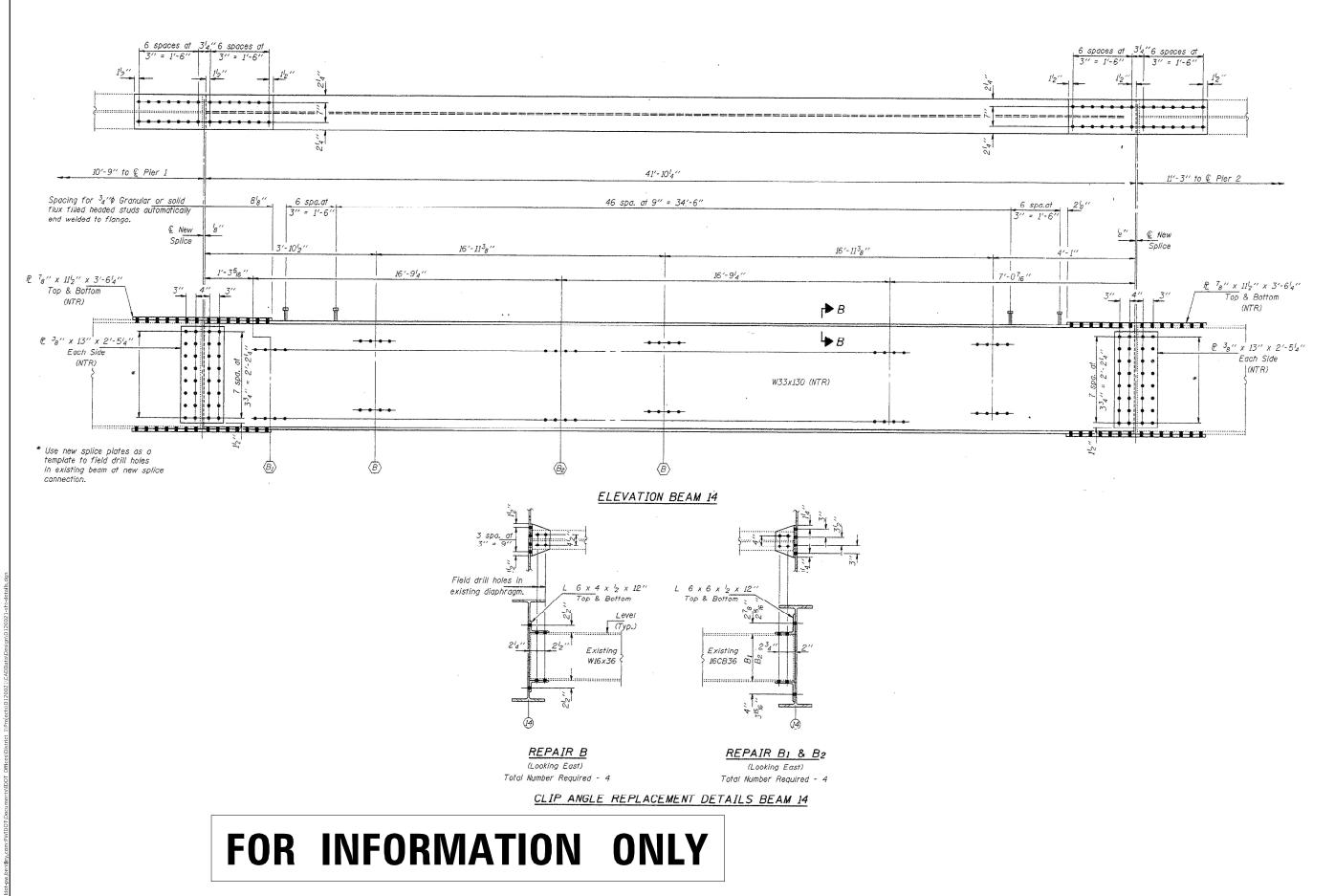
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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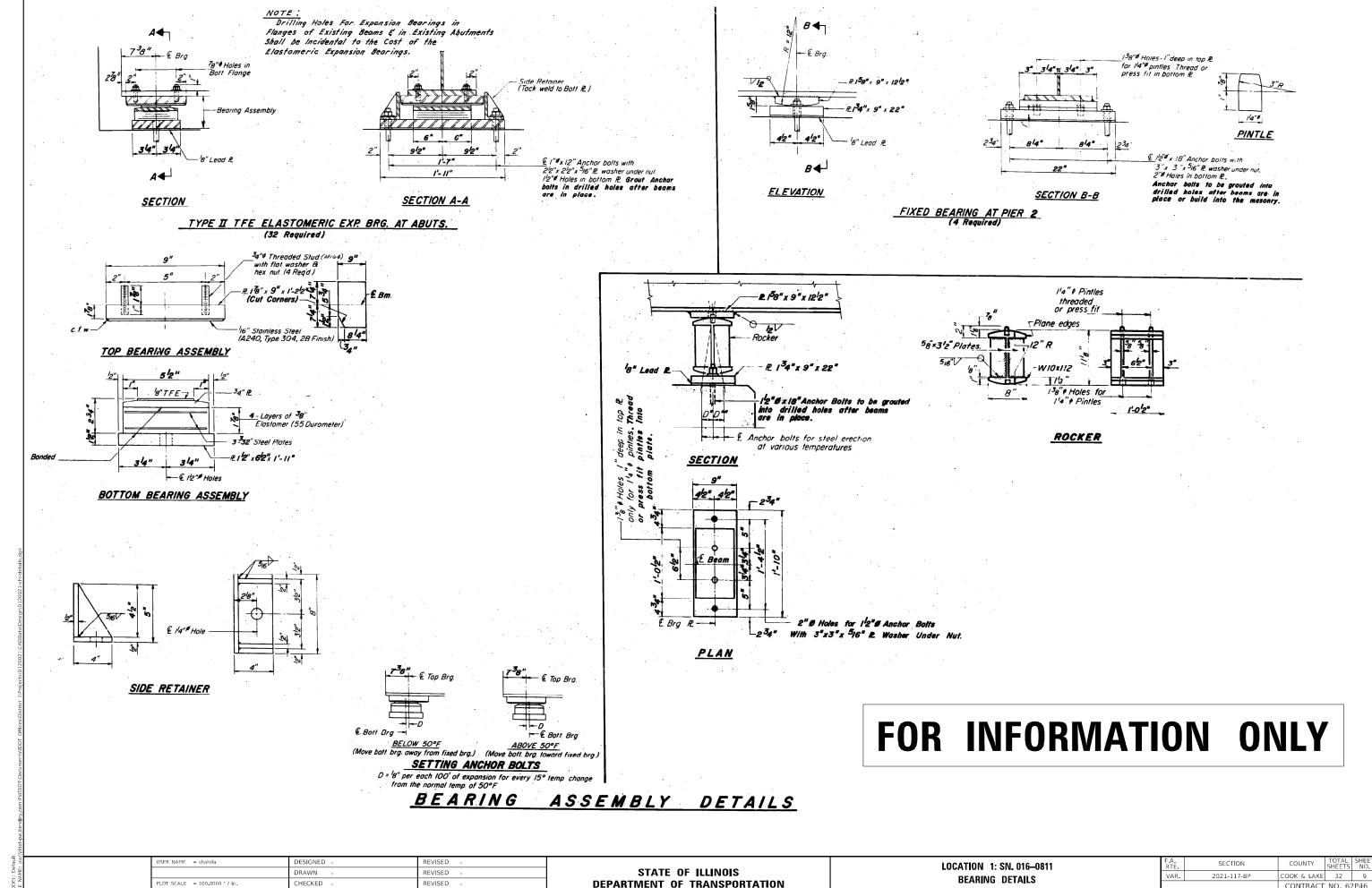
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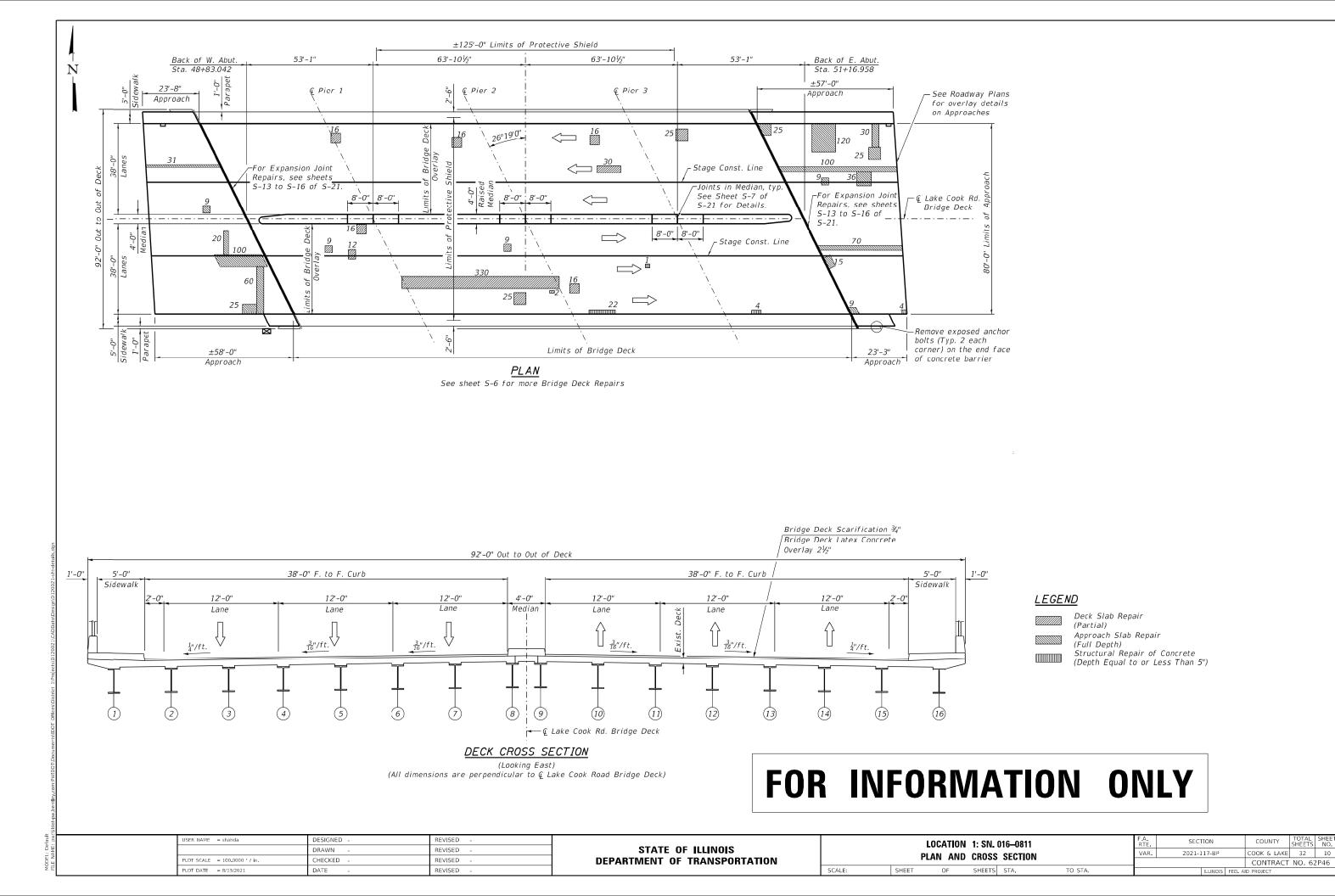
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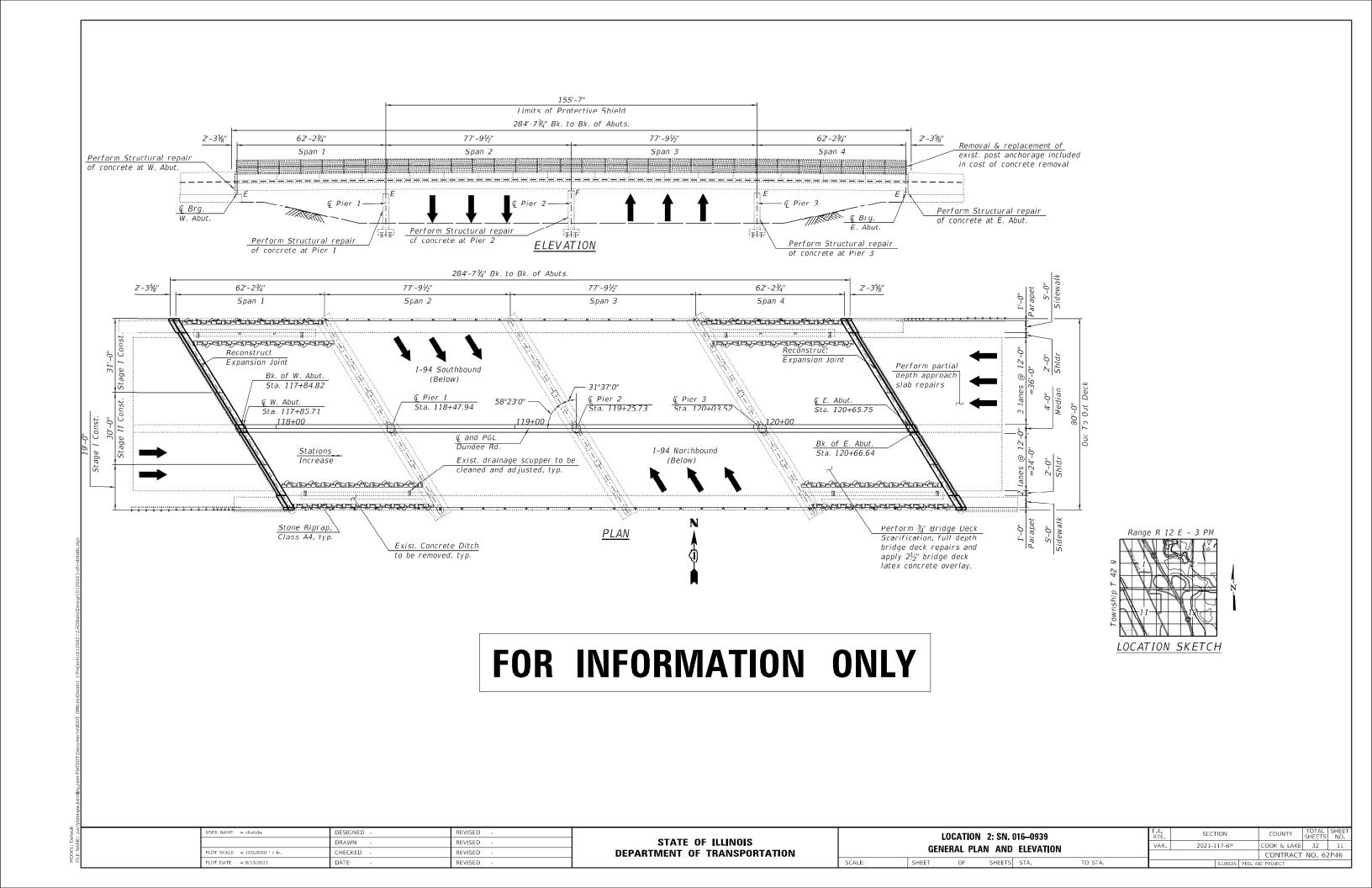
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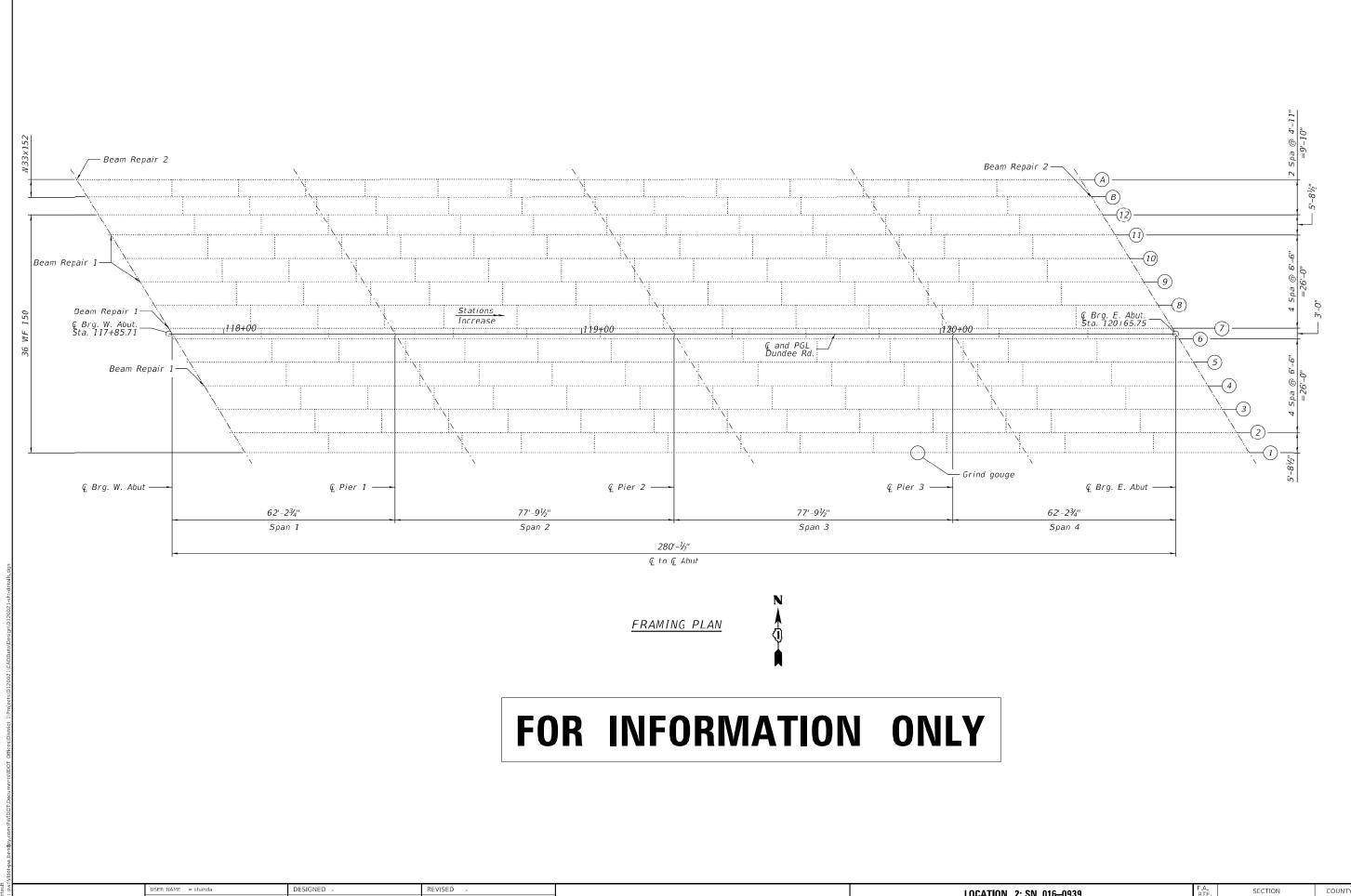
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



CONTRACT NO. 62P46







STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

LOCATION 2: SN. 016-0939

FRAMING PLAN

TO STA.

SHEET

2021-117-BP

COOK & LAKE 32 12

CONTRACT NO. 62P46

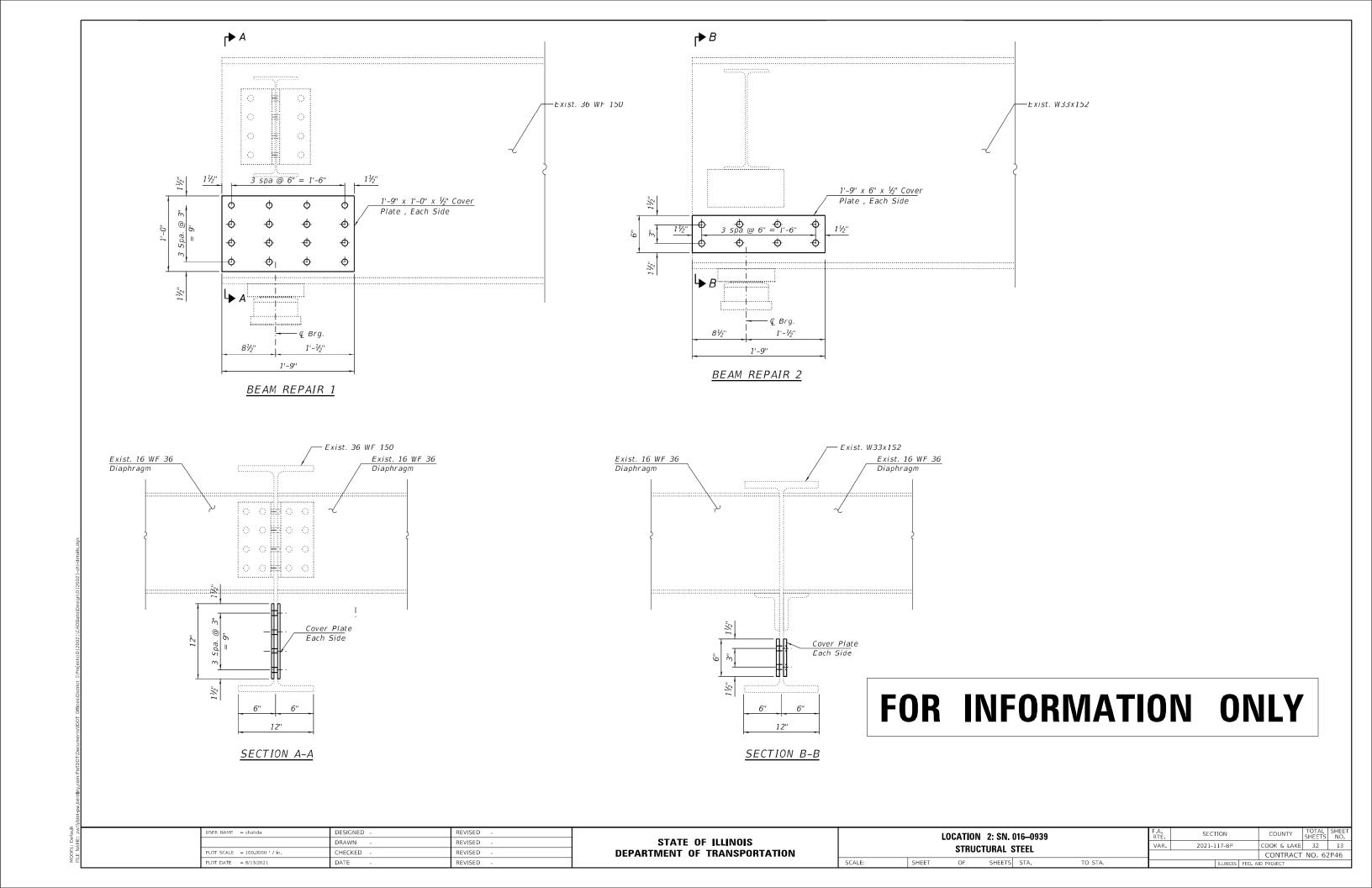
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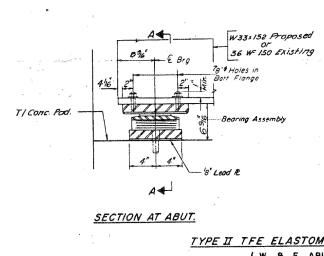
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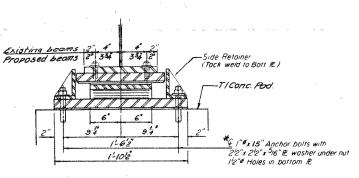
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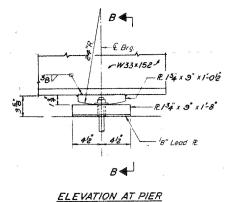
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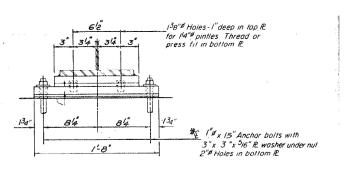
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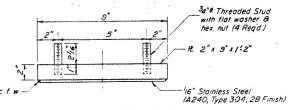
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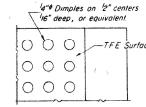
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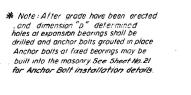


SECTION A-A

TYPE II TFE ELASTOMERIC EXP. BRG. (W. & E. ABUTMENTS)







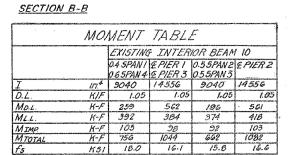
R12 x 9x1-01

P134 x 3'x 1-8

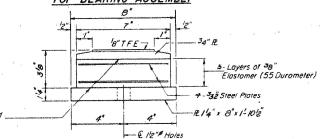
Bolts at Various

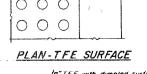
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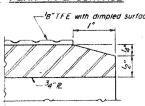
58 x312 RS-

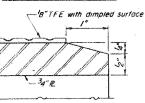








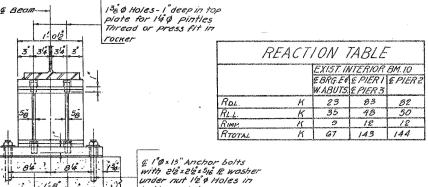




SECTION THRU TFE

Note: The 8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-I34, Type I. The bond agent shall be applied on the full area of the contact surfaces

Bonding of '8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



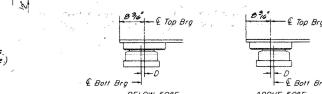
VIEW C-C

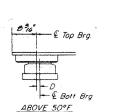
€ Beam-

18 9 holes - I'deep in rocker for 14 pintles Thread or press fit in bottom R.

bottom plate.

BOTTOM BEARING ASSEMBLY





BELOW 50°F ABOVE 50°F (Move bott brg. away from fixec brg.) (Move bott brg. toward fixed brg.)

D = $^{1}8^{\circ}$ per each 100° of expansion for every 15° temp change from the normal temp of 50° F.

SETTING ANCHOR BOLTS AT EXP. BRG.

Remove existing bearing including top plate welded to the beam Grind & continuous fillet weld smooth after removing top Plate. Anchor bolts to be left in place & cut flush with surface. The contractor shall submit the jacking defail of existing stringers and the sequence of operations for approval by the Engineer.

Maximum Jacking Force = 5 T/Ocom.

FIXED BEARING

(AT PIER 2) (2-Required)

EXPANSION BEARING (AT PIER'I' 8'3') (4-Required)

SIDE RETAINER

(Equivalent rolled angle with Stiffeners, will be allowed in lieu of welded plate)

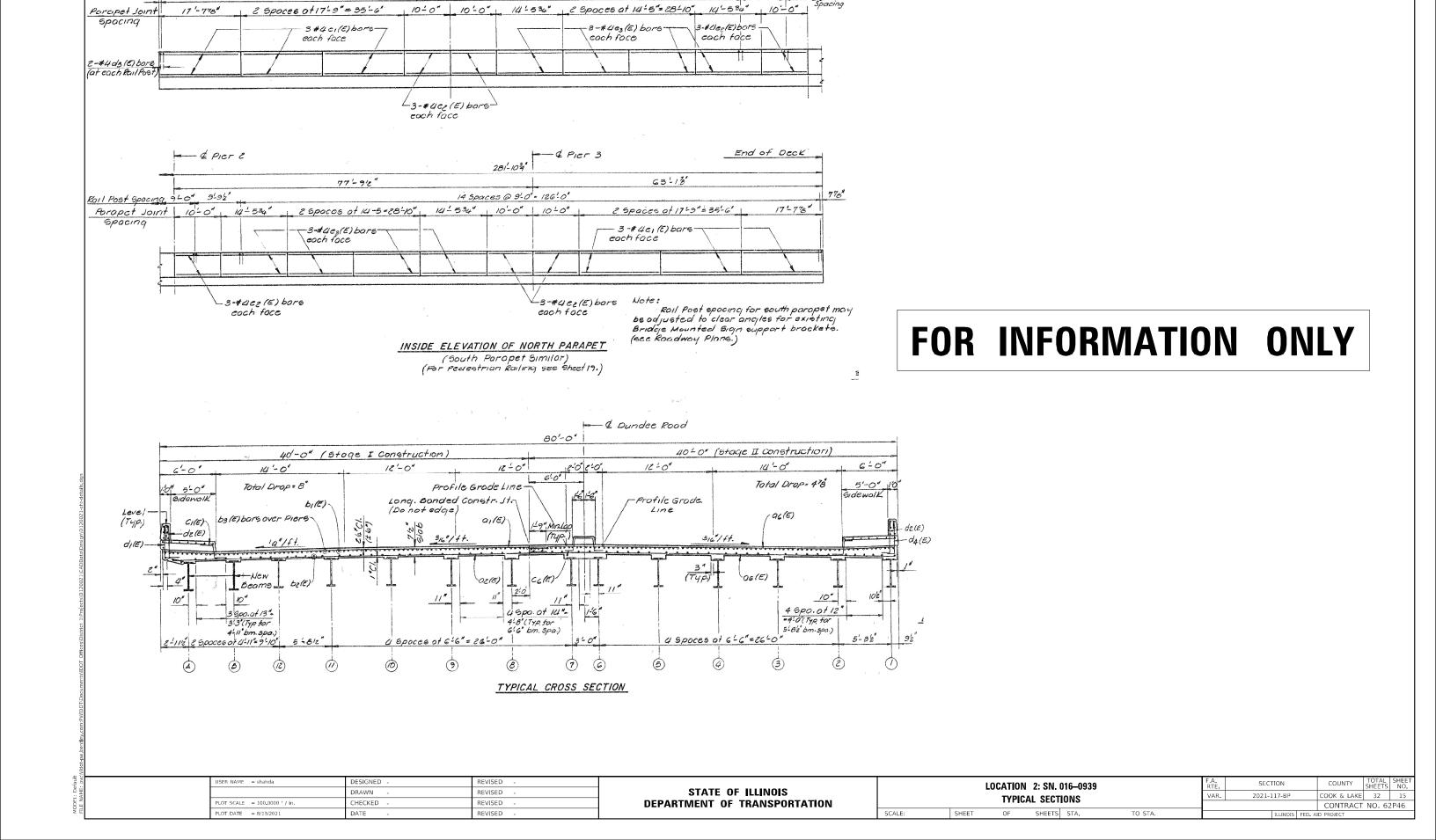
FOR INFORMATION ONLY

SHEET

USER NAME = shahda	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 8/13/2021	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

LOCATION	1 2: SN. (016-0939)	F.A. RTE	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.
BEARING DETAILS					2021-1	17-BP		COOK & LAKE	32	14
DLAII	ING DEI	MILO						CONTRACT	NO. 62	2P46
OF	SHEETS	STA.	TO STA.	ILLINOIS			FED. A	ID PROJECT		



& PIET 2

91.92" , 710" Rail Post

77-912"

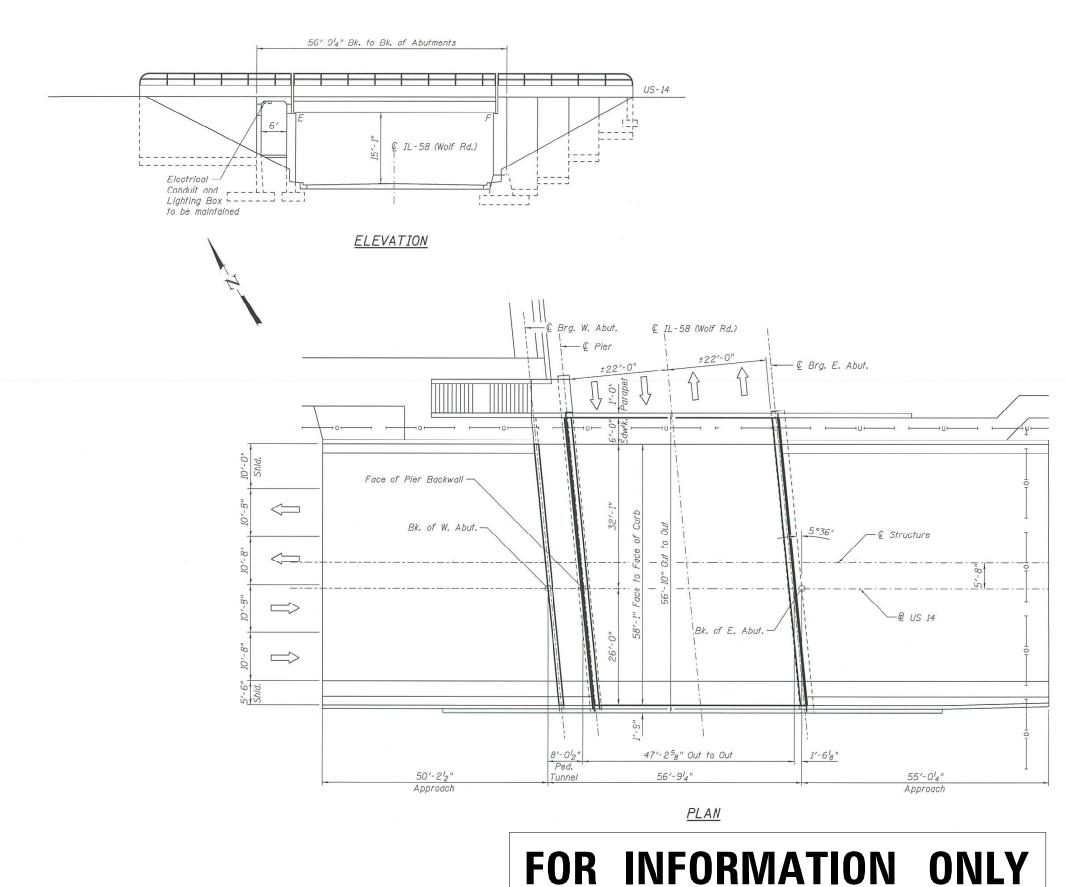
End of Deck

63-18

- d Pier 1

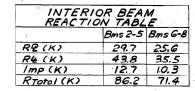
14 Spaces @ 9-0" = 126'-0"

281-1031



FOR INFORMATION ONLY

USER NAME = shahda	DESIGNED -	REVISED -			10	CATION	3 CM	016-0236		F.A.	SECTION	COUNTY	TOTAL SHEET	Г
	DRAWN -	REVISED -	STATE OF ILLINOIS		GENE					VAR	2021-117-BP	COOK & LAKE	32 16	1
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		GEINE	NAL PLA	AIN AIND	ELEVATION				CONTRAC	Г NO. 62P46	1
PLOT DATE = 8/13/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FI	D. AID PROJECT		
			•							-				_



W16×36 W16×36

HALF VIEW

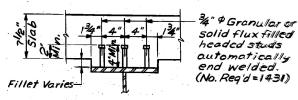
INTERIOR DIAPHRAGMS

4 Spa. @ 6'-10" 27'-4"

-W33X118 (Typ.)

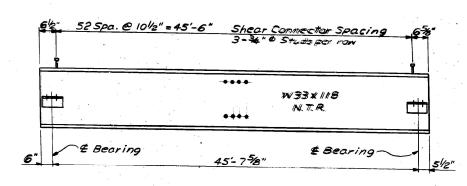
N.T.R.

W16X36

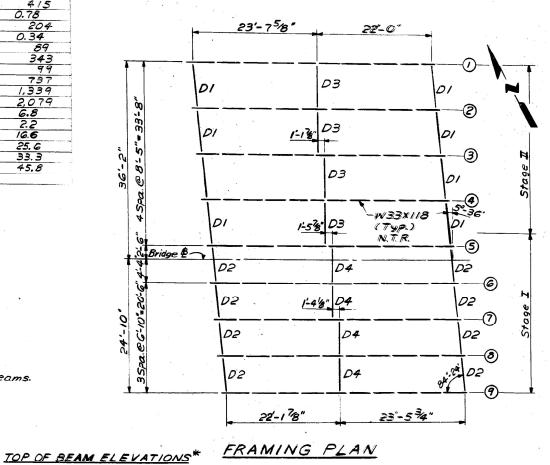


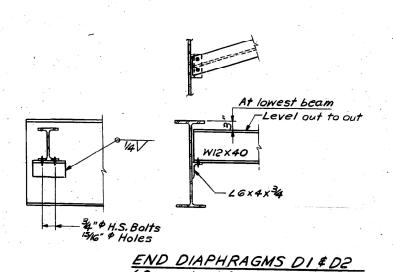
SHEAR STUDS

	BEAMS 2-5	BEAMS 6-8
	0.5 Span	0.5 Span
Is (in		5,900
Ic (in	16,100	16,000
Ss (in		359
Sc (n=27, n=9) (in		483/534
Z (in		415
DL (K/		0.78
MDL (1)		204
SDL (K)		0.34
MSDL (IN		89
MLL (IK		343
MIMP (II		99
5/3 (MLL+I) (")		737
1.3[MDL+MSDL + 5/3(MLL+I)](1		1,339
Fully Plastic Mom. Capacity(2,079
fs DL non-comp. (ksi) <i>8.</i> /	6.8
fs SDL comp. (ks		2.2
fs 5/3(LL+I) (Ks		16.6
fs (overload) (ks	i) 30.9	25. G
fs (total) (ks	<i>()</i>	33.3
VR (K	56.5	45.8



TYPICAL BEAM ELEVATION N.T. R. indicates notch toughness requirement-See General Notes





(8 required for each, total of 16)

4 Spa.@8'- 5"=33'-8"

WIZX40

HALF VIEW

END DIAPHRAGMS

WIZX40

WI2X40 WI2X 40

E Lowest Beam

INTERIOR DIAPHRAGMS D3 & D4 (4 required for each, total of 8)

W16 x 36

655.08 655.10

Level between beams.

* For fabrication only.

PIER E. ABUT. # BRG. # BRG. 654.90 654.92 655.03 655.05

SHEET

FOR INFORMATION ONLY

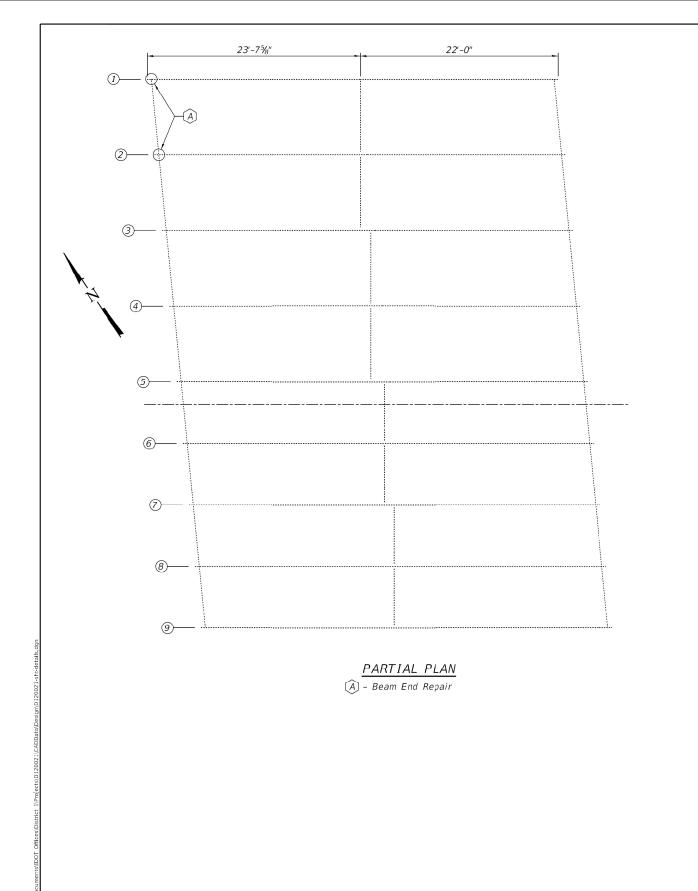
34" \$\tau High Strength Bolts | 15/16" \$\tau Holes Out to Out

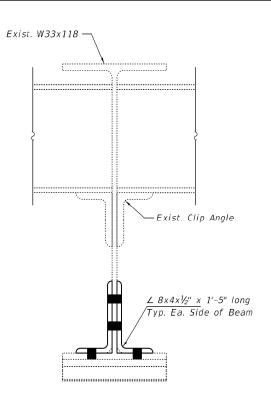
USER NAME = shahda	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 8/13/2021	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATIO	N

-L4x4x12 (Top \$ Bott.)

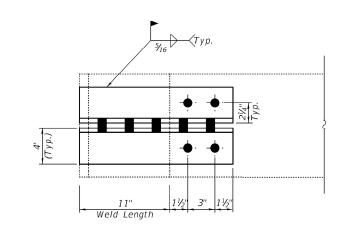
LOCATION 3: SN. 016–0236 Framing Plan				SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
				2021-117-BP		COOK & LAKE	32	17
i iiAivijivu	I LAN					CONTRACT	NO. 62	2P46
OF SHEE	TS STA.	TO STA.	ILLINOIS FED. AID PROJECT					





SECTION A-A

* Clip Angle not required on outside face of exterior beams.



SECTION B-B

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

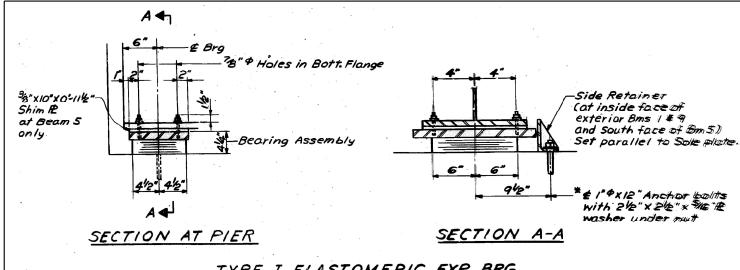
LOCATION 3: SN. 016-0236 STRUCTURAL STEEL PLAN

TO STA.

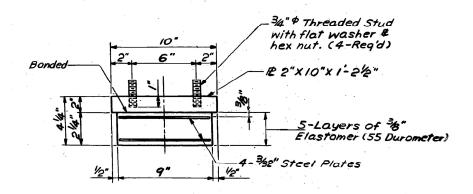
F.A. RTE. SECTION COUNTY TOTAL SHEETS NO.

VAR. 2021-117-BP COOK & LAKE 32 18

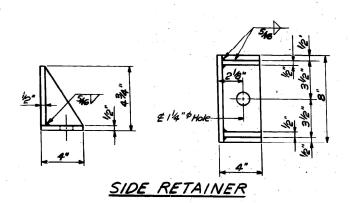
CONTRACT NO. 62P46



TYPE I ELASTOMERIC EXP. BRG. At Pier

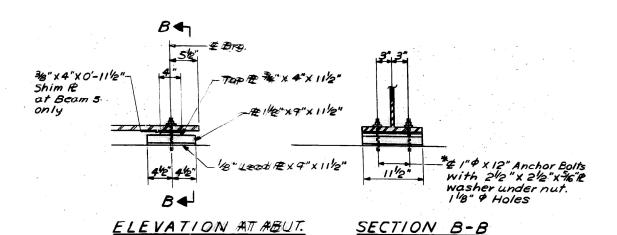


<u>BEARING ASSEMBLY</u>
Note: Shim plate shall not be placed under bearing assembly.



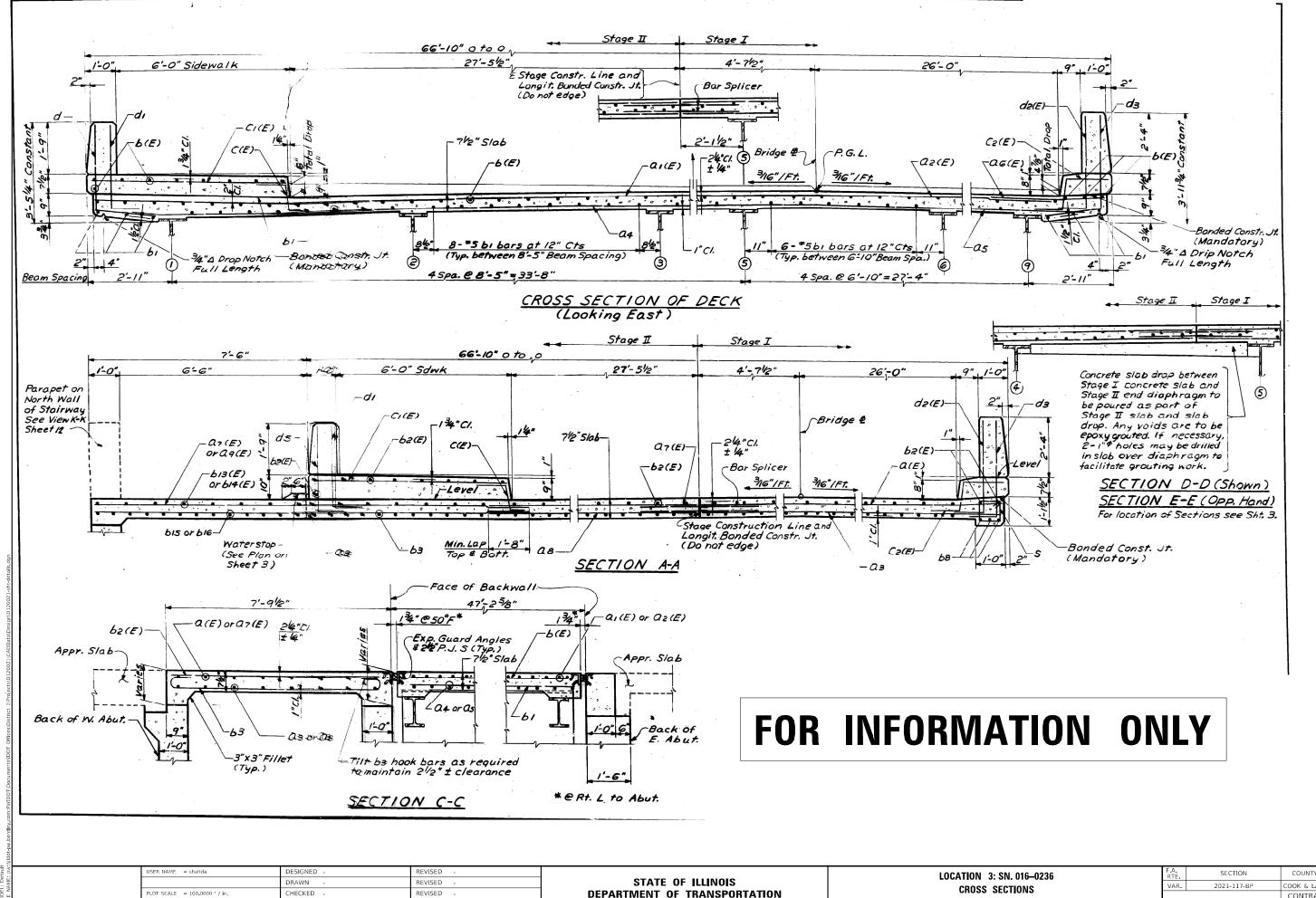
FOR INFORMATION ONLY

DESIGNED REVISED SECTION LOCATION 3: SN. 016-0236 STATE OF ILLINOIS DRAWN REVISED COOK & LAKE 32 19 2021-117-BP STRUCTURAL STEEL DETAILS CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62P46 LOT DATE = 8/13/2021 DATE



FIXED BEARING

lev.com;PWIDOT\Documents\I



LOT DATE = 8/13/2021

DATE

DEPARTMENT OF TRANSPORTATION

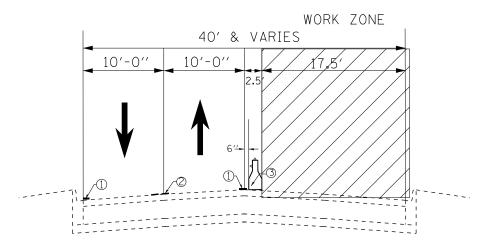
CROSS SECTIONS

TO STA.

COOK & LAKE 32 20 CONTRACT NO. 62P46

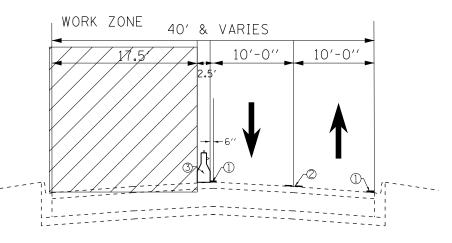
IL-58 (GOLF ROAD) TYPICAL SECTION

(STA, 21+25 TO STA, 23+50)



IL-58 (GOLF ROAD) STAGE 2

(STA. 21+25 TO STA. 23+50)



IL-58 (GOLF ROAD) STAGE 1

(STA. 21+25 TO STA. 23+50)

LEGEND

- 1) PAVEMENT MARKING TAPE TYPE IV (YELLOW-LEFT, WHITE-RIGHT)
- ② PAVEMENT MARKING TAPE TYPE IV (DOUBLE YELLOW) @ 11" C-C
- 3 TEMPORARY CONCRETE BARRIER

NOTES

SCALE:

- 1. TEMPORARY CONCRETE WALL WITH CRYSTAL BI-DIRECTIONAL TYPE C REFLECTORS TOP AND SIDE AT 25 FOOT CENTERS.
- 2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN RE-ESTABLISHED FOR STRIPPING. EXCAT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

USER NAME = shahda	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 9/10/2021	DATE -	REVISED -

MAIN							F.A. SECTION			COUNTY
	II 58 (GOL)	VAR	2021-1	17-BP		COOK				
	IL 58 (GOLF ROAD) UNDER US 14 BRIDGE									CONTRA
	SHEET	OF	SHEETS	STA	TO STA			ILLINOIS.	EED A	ID DDOJECT

32 21

om:PWIDOT\Documents\IDOT Offices\District 1\Projects\D120021\(

MODEL: Default

STAGE I

ESTABLISH TRAFFIC CONTROL AS SHOWN.

CLEAN AND PAINT THE BRIDGE SUPERSTRUCTURE EAST SECTION AS SHOWN.

STAGE II

ESTABLISH TRAFFIC CONTROL AS SHOWN.

CLEAN AND PAINT THE BRIDGE SUPERSTRUCTURE WEST SECTION AS SHOWN.

STAGE III

RE-ESTABLISH PERMANENT PAVEMENT MARKING AS SHOWN.

NOTES:

- 1. ESTABLISHING TRAFFIC CONTROL AS SHOWN ON SUGGESTED STAGING CONSTRUCTION PLANS SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).
- 2. EXISTING SPEED LIMIT SIGNS ON GOLF ROAD WITHIN THE PROJECT LIMITS SHALL BE COVERED.
- 3. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN WALKWAY AND PEDESTRIANS SHALL BE PROTECTED FROM ALL BRIDGE PAINTING OPERATIONS.
- 4. CONTRACTOR SHALL COVER EXISITING STOP SIGN AT SEEGERS ROAD & GOLF ROAD AT STA. 17+00 OFFSET 50 FEET (RIGHT) DURING STAGE I.

 USER NAME
 = shahda
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 100,0000 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 9/14/2021
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED CONSTRUCTION STAGING NOTES

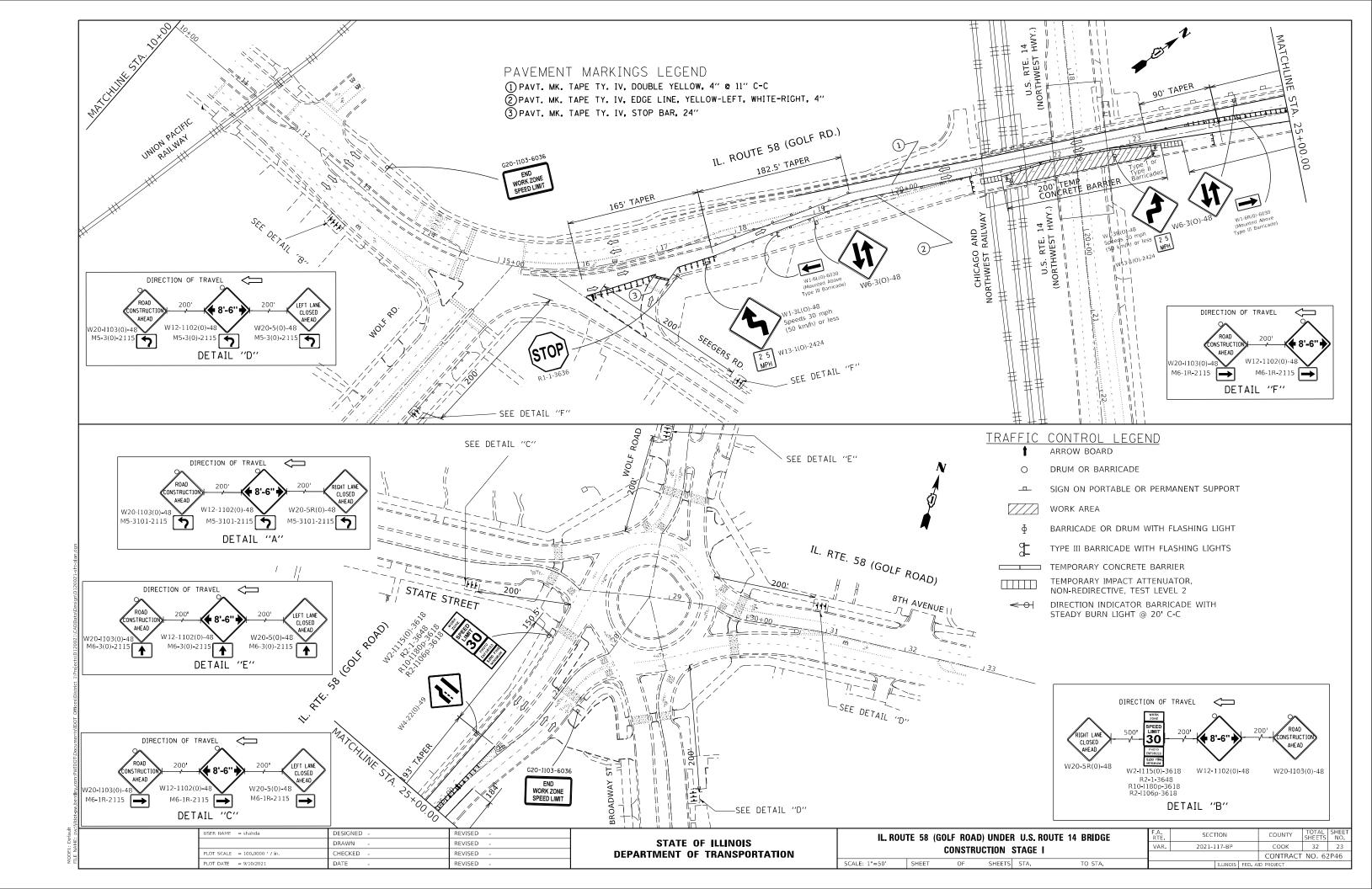
IL 58 (GOLF ROAD) UNDER US 14 BRIDGE

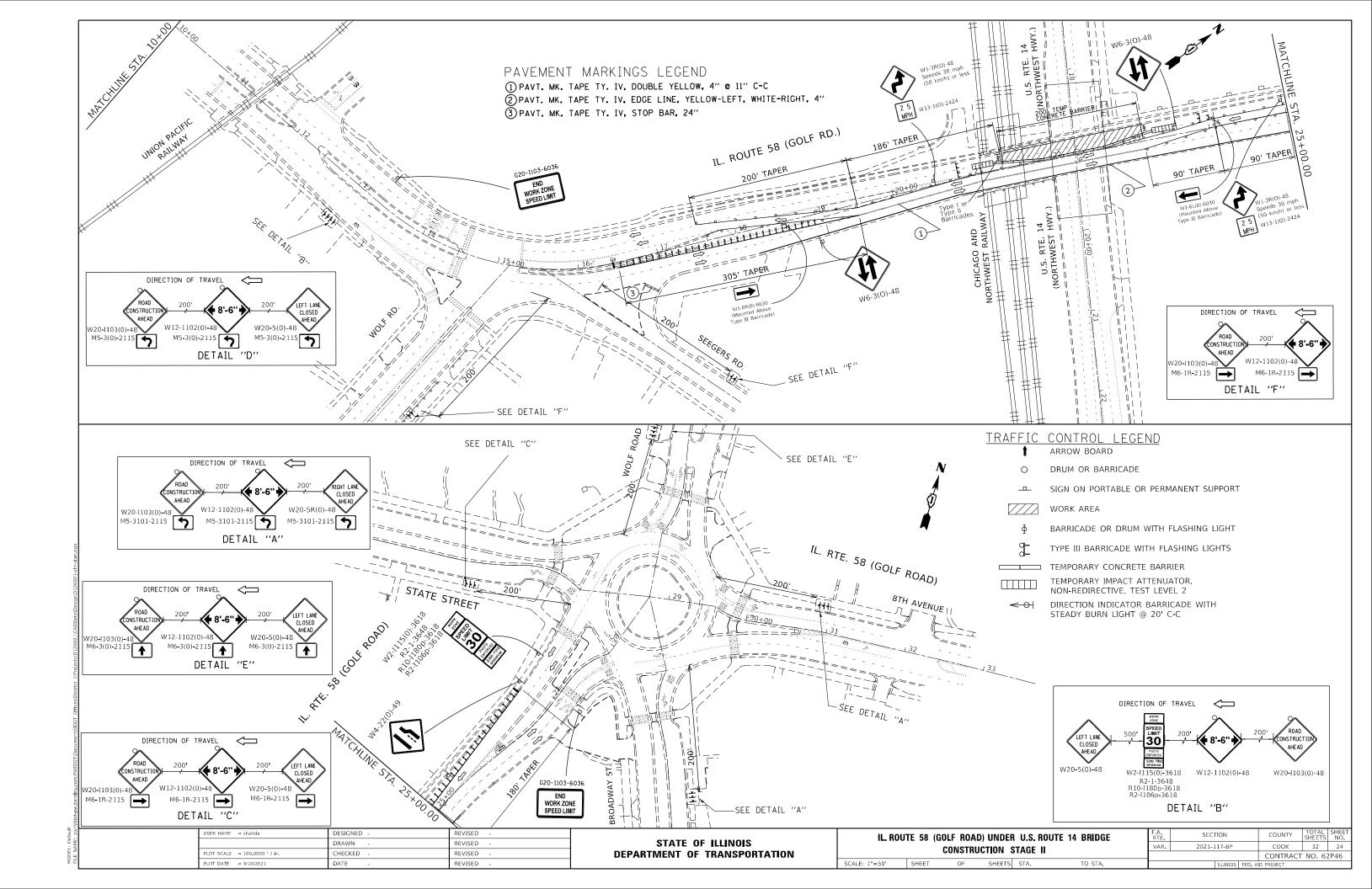
SHEET OF SHEETS STA. TO STA.

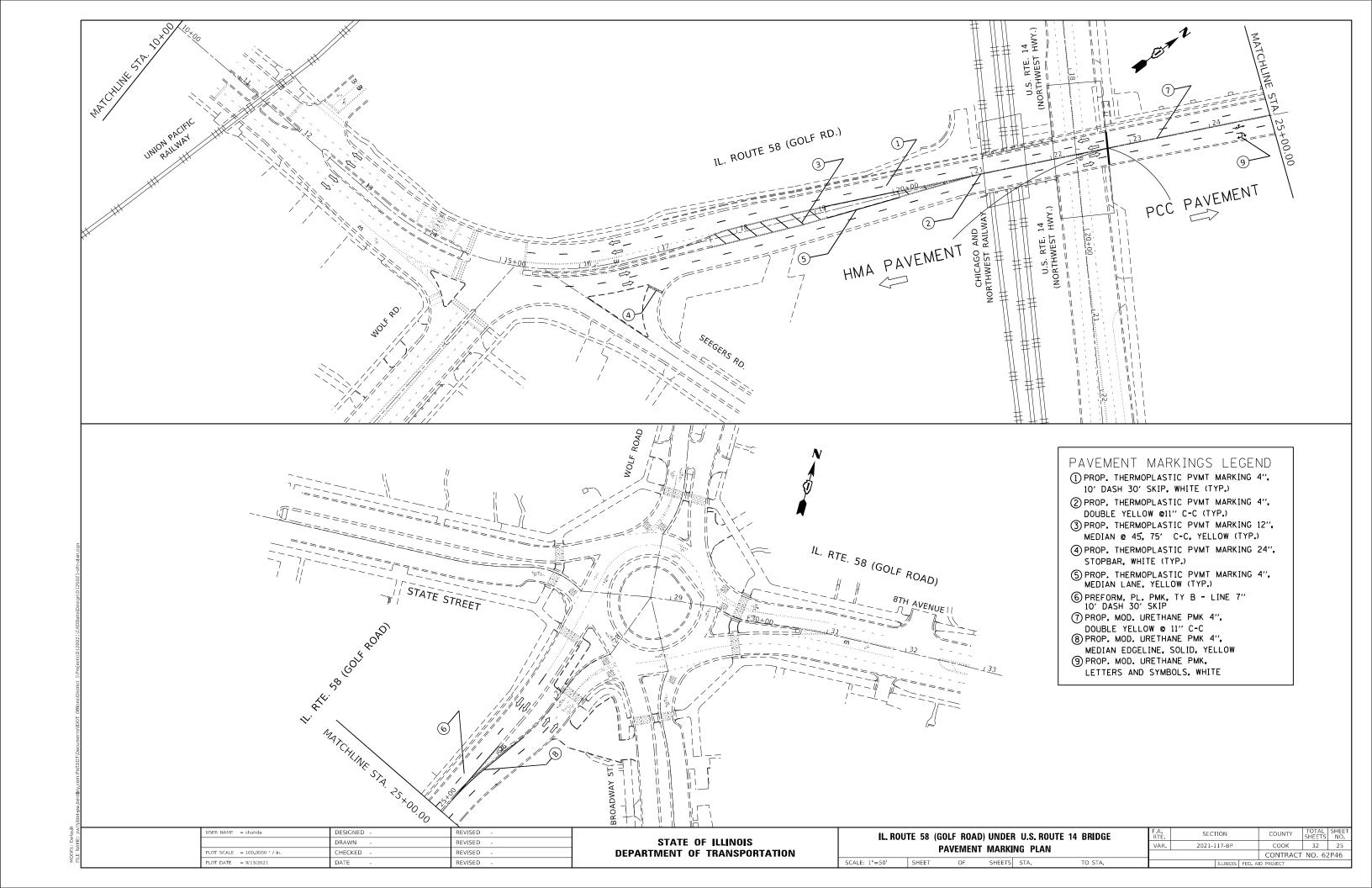
SECTION COUNTY TOTAL SHEETS NO.

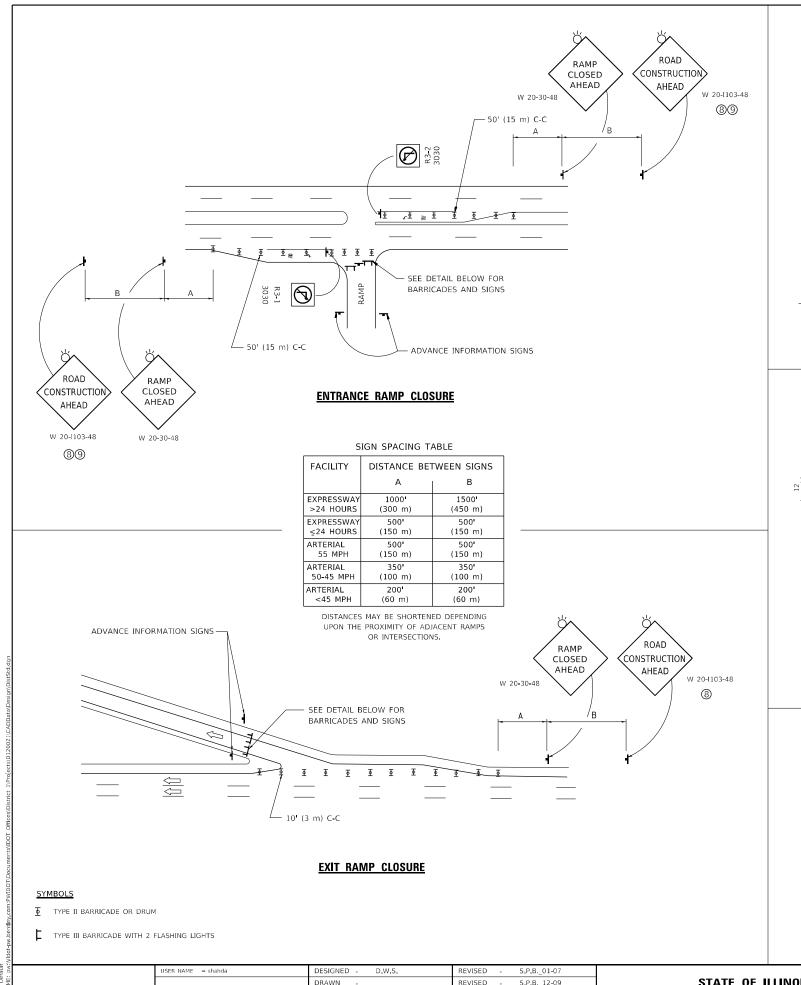
RR 2021-117-BP COOK 32 22

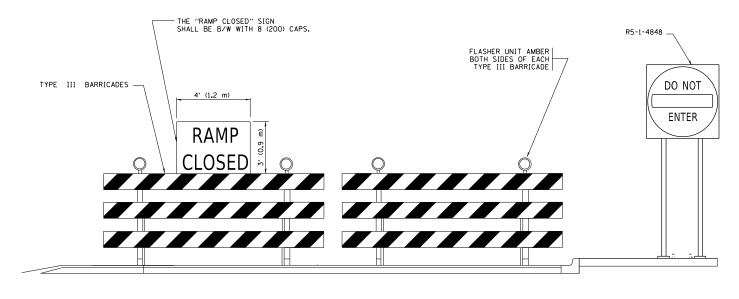
CONTRACT NO. 62P46







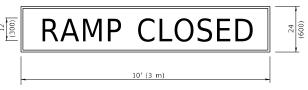




DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE INFORMATION SIGN





BLACK LEGEND ON ORANGE

BACKGROUND MOUNTED

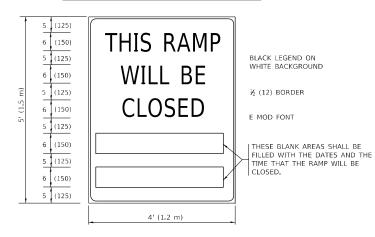
DIAGONALLY

E MOD FONT

1 (25) BORDER

SIGNS ARE REQUIRED ON ALL THE EXIT

THESE SIGNS ARE REQUIRED ON ALL THE EXIT
GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE
CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

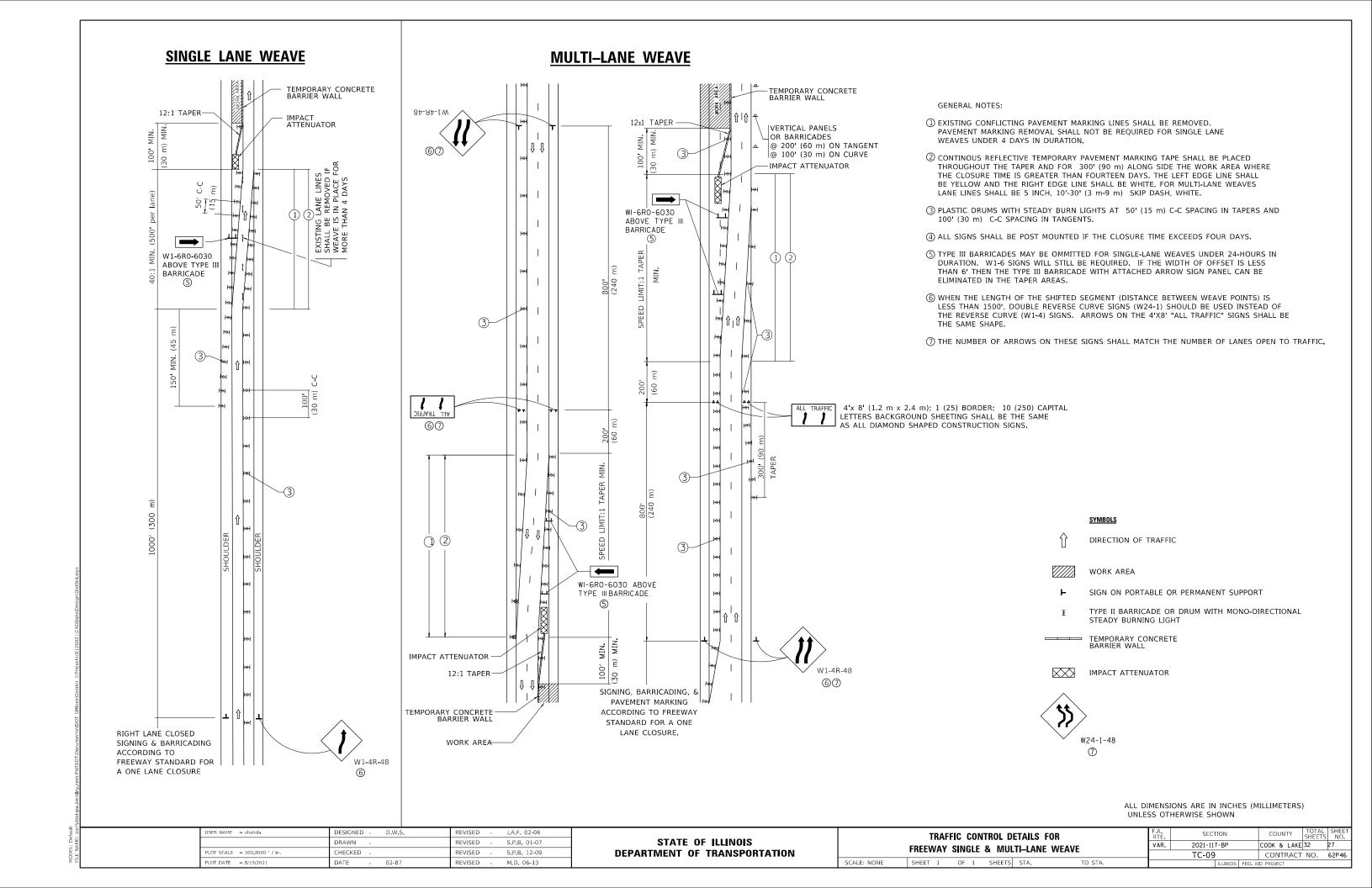
GENERAL NOTES:

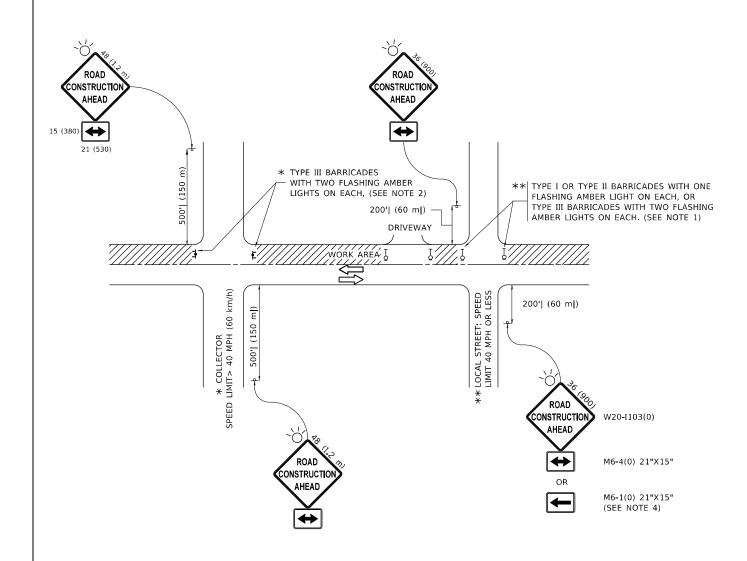
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH
 DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE
 COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (3) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS, ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED
 ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

SECTION COUNTY ENTRANCE_AND_EXIT_RAMP STATE OF ILLINOIS VAR. 2021-117-BF COOK & LAKE 32 26 **CLOSURE DETAILS** HECKED REVISED M.D._06-13 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62P46 OF 1 SHEETS STA LOT DATE = 8/13/2021 M.D. 01-18 SCALE: NONE SHEET 1 TO STA. DATE REVISED





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.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) 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
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
 BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

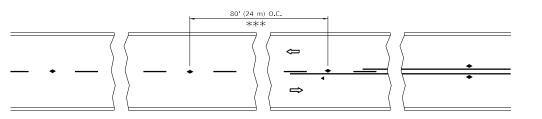
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED 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.

USER NAME = shahda	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
	DRAWN -	REVISED	- T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
BLOT DATE _ 9/12/2021	DATE 06.90	DEVICED	Δ SCHUETZE 09-15-16

STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	TRAFFIC (ONTROL	. AND P	ROTEC	TION FOR	F.A. RTE	SECTION
ÇI	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS						2021-117-BP
31	DE HUADS		TC-10				
	CHEET 1	OF 1	CHEETE	CTA	TO CTA		

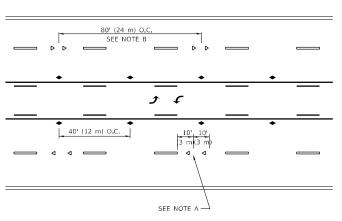


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

3 @ 40' (12 m) O.C. — 🗢 \Rightarrow

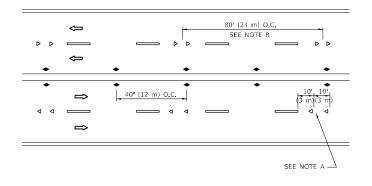
SEE FIGURE 3B-14 MUTCD

LANE REDUCTION TRANSITION

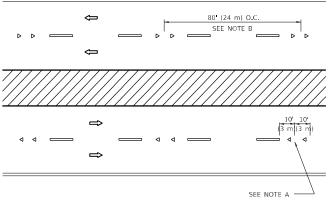


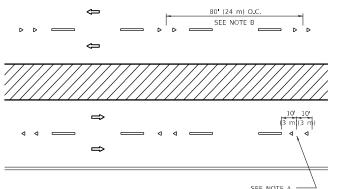
TWO-WAY LEFT TURN

TW0-LANE/TW0-WAY

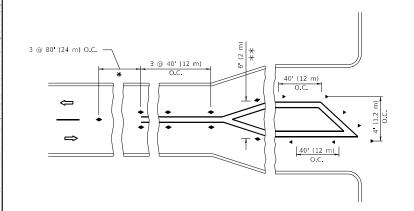


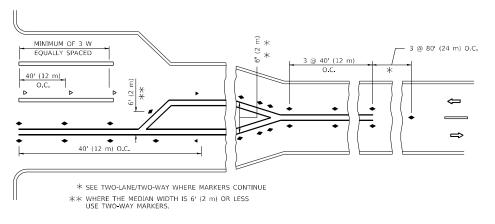
MULTI-LANE/UNDIVIDED





MULTI-LANE/DIVIDED





TURN LANES

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.
- 4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

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.

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

REVISED - T. RAMMACHER 03-12-99 JSER NAME = shahda DESIGNED DRAWN REVISED - T. RAMMACHER 01-06-00 CHECKED REVISED PLOT DATE = 8/13/2021 C. JUCIUS 07-01-13 DATE REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHEET 1 OF 1 SHEETS STA.

SECTION 2021-117-BP COOK & LAKE 32 29 VAR. TC-11 CONTRACT NO. 62P46

SYMBOLS

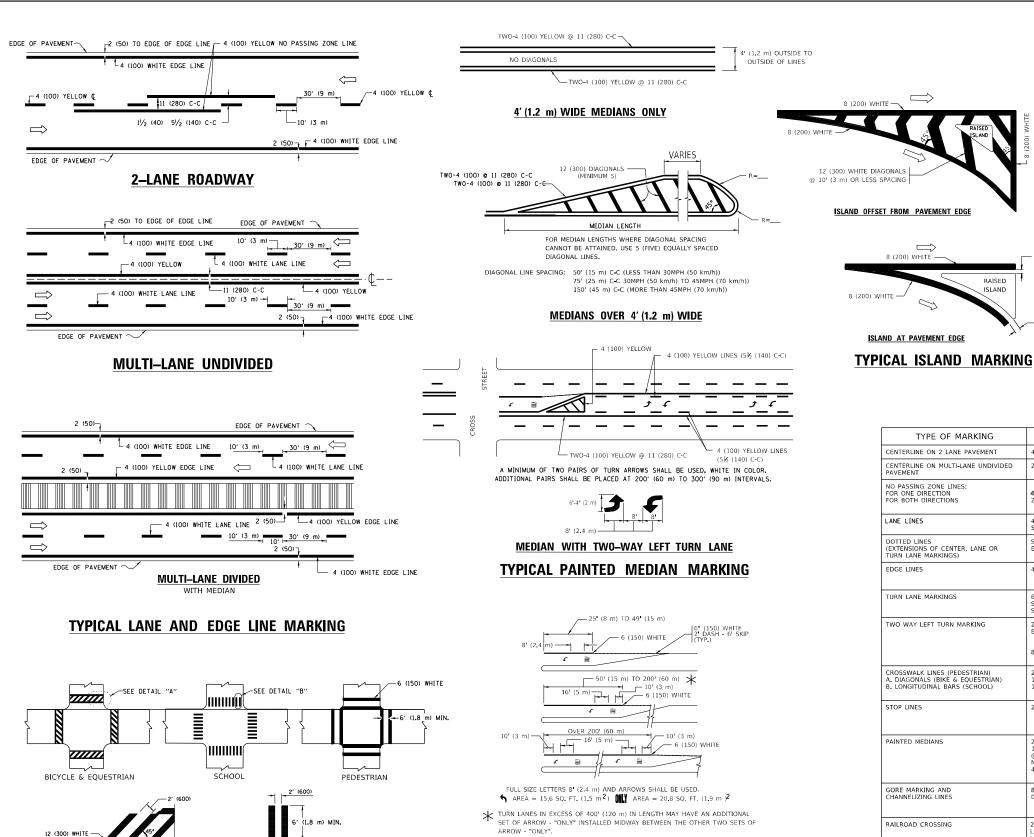
ONE-WAY AMBER MARKER

TWO-WAY AMBER MARKER

ONE-WAY CRYSTAL MARKER (W/O)

YELLOW STRIPE

■ WHITE STRIPE



TYPICAL TURN LANE MARKING

TYPICAL LEFT (OR RIGHT) TURN LANE

COMBINATION LEFT AND U-TURN 5'-4" (1620) √ 32 R (810) LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS. U-TURN WIDTH OF LINE PATTERN COLOR SPACING / REMARKS SKIP-DASH YELLOW 10' (3 m) LINE WITH 30' (9 m) SPACE 2 @ 4 (100) SOLID YELLOW 11 (280) C-C

D(FT)

665

SPEED LIMIT

45

50

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 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	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' (500) 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 PEACH "X"=54.0 SQ. FT. (5.0 m PEACH
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' (25 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.

SCALE: NONE

8 (200) WHITE -

RAISED

4 (100)

TYPE OF MARKING

CENTERLINE ON 2 LANE PAVEMENT

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

USER NAME = shahda	DESIGNED	-	EVERS	REVISED	-	C. JUCIUS 09-09-09
	DRAWN	-		REVISED	-	C. JUCIUS 07-01-13
PLOT SCALE = 100.0000 / in.	CHECKED	-		REVISED	-	C. JUCIUS 12-21-15
PLOT DATE = 8/13/2021	DATE	-	03-19-90	REVISED	-	C. JUCIUS 04-12-16

─12 (300) WHITE

DETAIL "B"

- 6 (150) WHITE

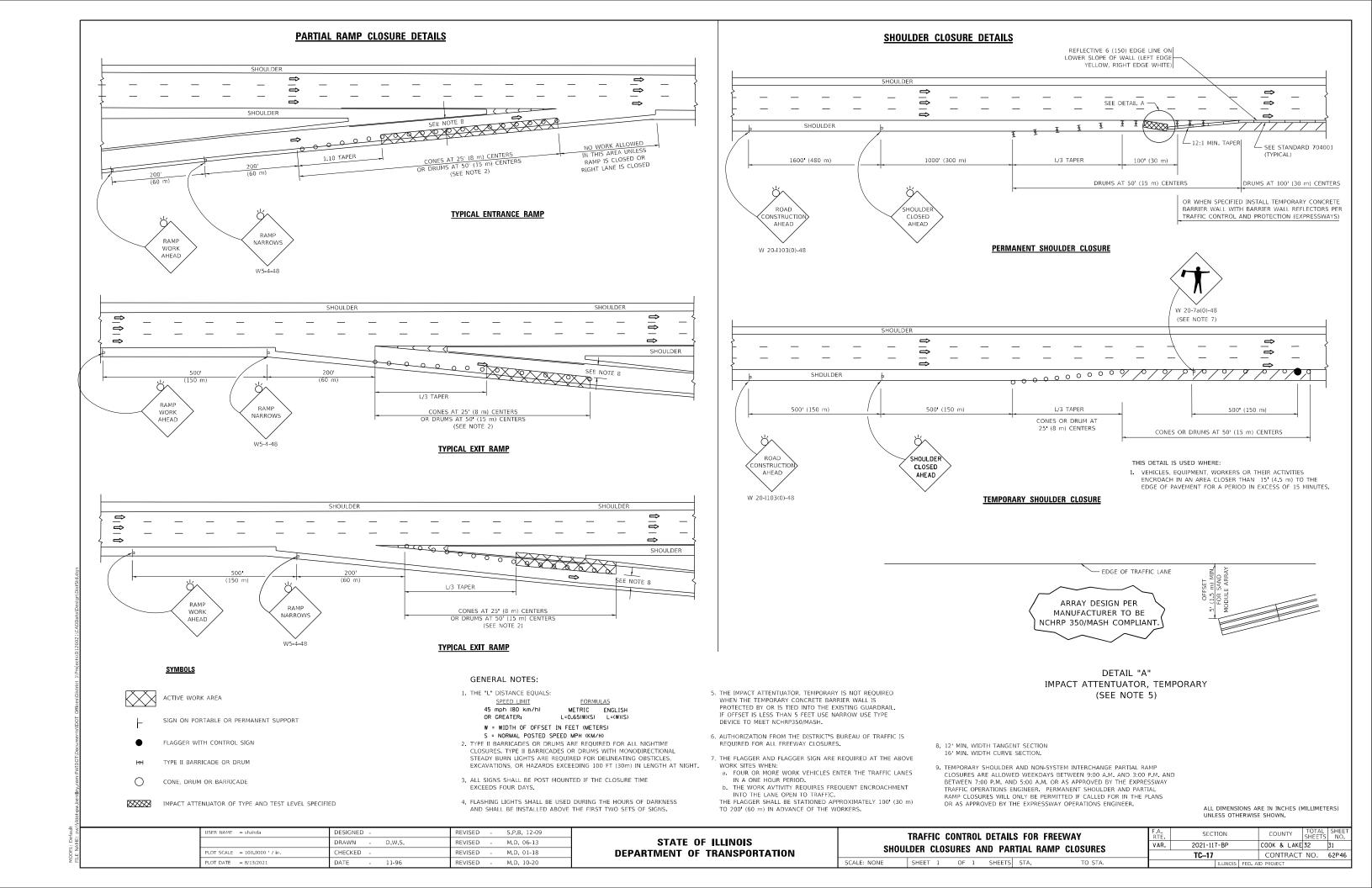
TYPICAL CROSSWALK MARKING

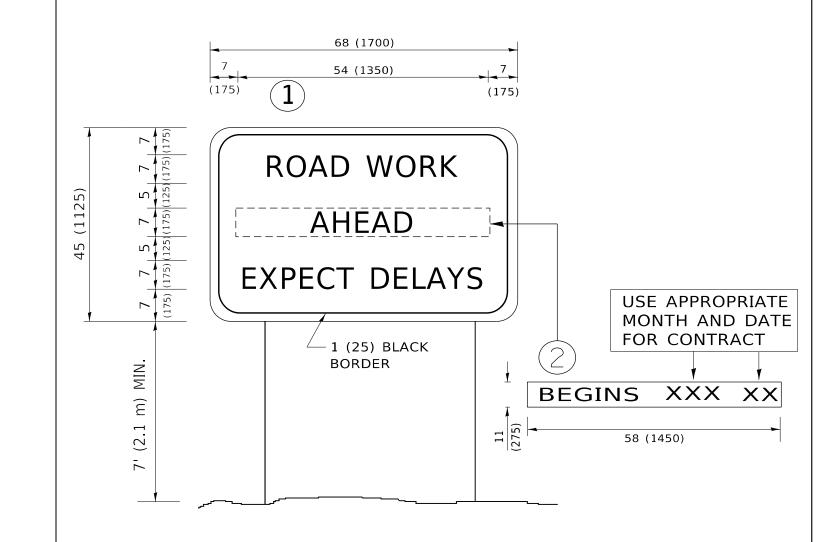
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

DETAIL "A"

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT ONE				F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
TYPICAL PAVEMENT MARKINGS				VAR.	2021-117-BP	COOK & LAKE	32	30		
	ITFICAL FAVEINIENT INIANKINUS						TC-13	CONTRACT	NO.	62P46
	SHEET 1	OF 2	SHEETS	STA	TO STA		TILLINOIC FED. A	ID DDOJECT		





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.)

SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

USER NAME = shahda	DESIGNED -	REVISED	-	R. MIRS 09-15-97
	DRAWN -	REVISED	-	R. MIRS 12-11-97
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	- T.	RAMMACHER 02-02-99
PLOT DATE = 8/13/2021	DATE -	REVISED	-	C. JUCIUS 01-31-07

STATE OF ILLINOIS						
DEPARTMENT	OF	TRANSPORTATION				

ARTERIAL ROAD						F.A. RTE	F.A. SECTION			COUNTY			
INFORMATION SIGN					SIGN		VAR.	VAR. 2021-117-BP			COOK & L.		
In onin tion sign							TC-22				CONTRA		
Τ	1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. AID PROJECT			