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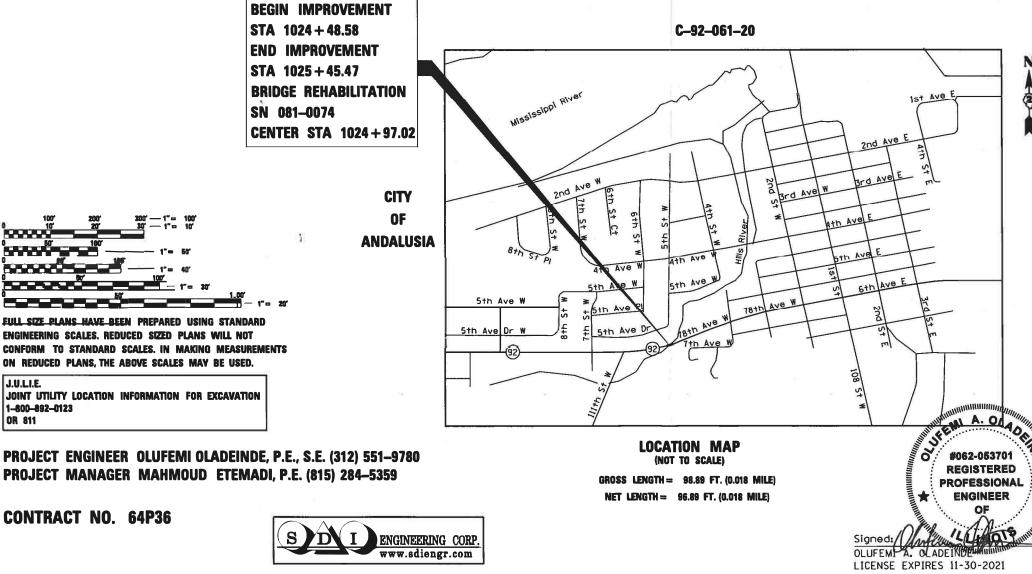
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# **STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**\*** EVERYWHERE THE CONTRACT NUMBER IS STATED, IT SHOULD READ 64P36. THE SECTION NUMBER SHOULD READ D2 BJR 2020-3. THERE ARE 21 TOTAL SHEETS.

# PROPOSED **HIGHWAY PLANS**

**FAP ROUTE 599 (IL 92)** SECTION D2 BJR 2020-3 **PROJECT 64P36 BRIDGE REHABILITATION ROCK ISLAND COUNTY** 

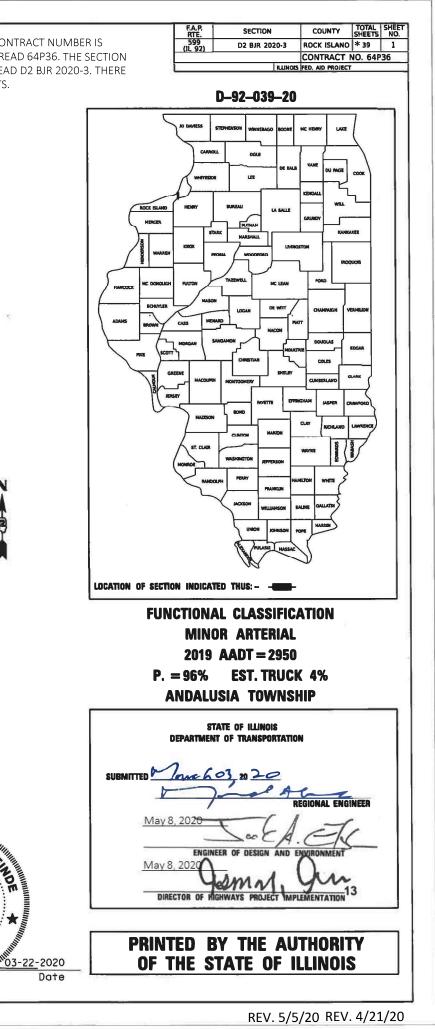


FOR INDEX OF SHEETS, SEE SHEET NO. 2

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT MANAGER MAHMOUD ETEMADI, P.E. (815) 284-5359



#### **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
01	COVER SHEET
02	GENERAL NOTES AND HIGHWAY STANDARDS
03	SUMMARY OF QUANTITIES
04	STAGING NOTES & CROSS SECTIONS
05-6	MAINTENANCE OF TRAFFIC
07-14	BRIDGE PLANS
15-21	STANDARDS

#### **GENERAL NOTES**

		HIGHWA
1	. IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17 IF TRACK MOUNTED OR WHEELED.	000001-07 701101-05
2	. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, AND THE CITY OF ANDALUSIA.	701321-18
3	. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A	701423-10
	MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.	701426-09
	IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING	701901-08 704001-08
	OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.	720011-01
4	. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPALITY TO DETERMINE	728001-01
	APPROVED METHODS OF UTILITY STRUCTURE ADJUSTMENT. UTILITY STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO, MANHOLES, WATER VALVES, HANDHOLES, ETC. ALL MATERIALS AND WORK	729001-01
	NECESSARY TO COMPLETE ADJUSTMENTS PER MUNICIPALITY REQUIREMENTS SHALL BE CONSIDERED IN CLUDED IN THE COST OF THE ASSOCIATED ADJUSTMENT PAY ITEM.	780001-05 782006-01
5	ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.	
6	. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.	
7	. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:	
	<ol> <li>ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.</li> <li>ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.</li> <li>THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF</li> </ol>	
	TYPICAL LANE AND EDGE LINES. 4. CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE	UTILITY
	DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.	NONE.
8	FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.	
9	. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.	
10	D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.	
11	I. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.	
	2. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.	
1.	3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.	
14	4. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	
15	5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOGS, SHRUBS, BUSHES, SAPLINGS, UNDERBRUSH OR DEBRIS ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS AT LOCATIONS REQUIRING ACCESS TO THE SUBSTRUCTURE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	
10	5. WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORED AND TRANSPORTED TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, AND RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.	
1	7. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.	

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www.sdiengr.c	<pre>m PLOT SCALE = \$SCALE\$</pre>	CHECKED – OAO	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRACT NO. 64P36
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#### **HIGHWAY STANDARDS**

- -07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- -05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24'' (600 MM) FROM PAVEMENT EDGE
- LANE CLOSURE, MULTILANE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
   LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH
- -09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- 08 TRAFFIC CONTROL DEVICES
- -08 TEMPORARY CONCRETE BARRIER
- -01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- -01 TELESCOPING STEEL SIGN SUPPORT
- -01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS) -05 TYPICAL PAVEMENT MARKINGS
- -01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

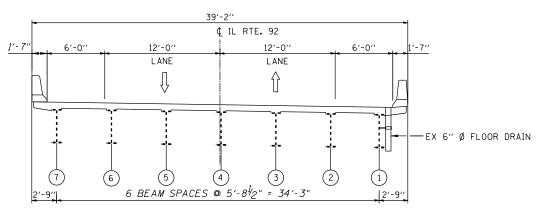
#### Y NOTES

	SUMMARY OF QUANTITIES			10011 07:55
				100% STATE
				BRIDGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	081-0074
50102400	CONCRETE REMOVAL	CU YD	14.8	14.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	14.6	14.6
50300300	PROTECTIVE COAT	SQ YD	39.5	39.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1750	1750
50800515	BAR SPLICERS	EACH	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	113	113
67000400	ENGINEERING FIELD OFFICE, TYPE A	CAL MO	1	1
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2,131	2131
70400100	TEMPORARY CONCRETE BARRIER	FOOT	578	578
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	578	578
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,022	2022
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	674	674
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	711	711
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	580	580
Z0001905	STRUCTURAL STEEL REPAIR	POUND	790	790
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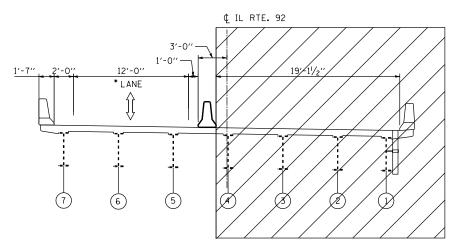
#### **CONSTRUCTION STAGING GENERAL NOTES**

- 1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1 2016. THE DETAILS IN THESE PLANS. THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 2. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 3. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
- 4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED BY THE CONTRACTOR.
- 5. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 6. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.
- 7. PROPOSED MAINTENANCE OF TRAFFIC SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.
- 8. SEE SUGGESTED MAINTENANCE OF TRAFFIC PLAN FOR ADDITIONAL SIGNING.
- 9. THE CONTRACTOR MUST CONDUCT HIS WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.
- 10. THE CONTRACTOR MUST NOTIFY THE IDOT BUREAU OF TRAFFIC AS REQUIRED 72 HOURS IN ADVANCE OF BEGINNING WORK (815) 284-5474.
- 11. SIGN SPACING SHALL BE PER IDOT STANDARDS 701321
- 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
- 13. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
- 14. ALL TEMPORARY CONCRETE BARRIER WALL AND TEMPORARY IMPACT ATTENUATORS MUST BE SEATED ON BARE, CLEAN PAVEMENT OR PAVED SHOULDER.



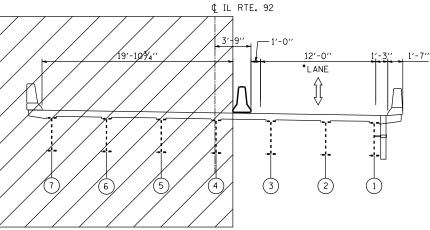
**EXISTING CROSS SECTION** 

(LOOKING WEST)



(LOOKING WEST)

\*LANE ALTERNATES IN BOTH DIRECTIONS FOR MOT STAGES



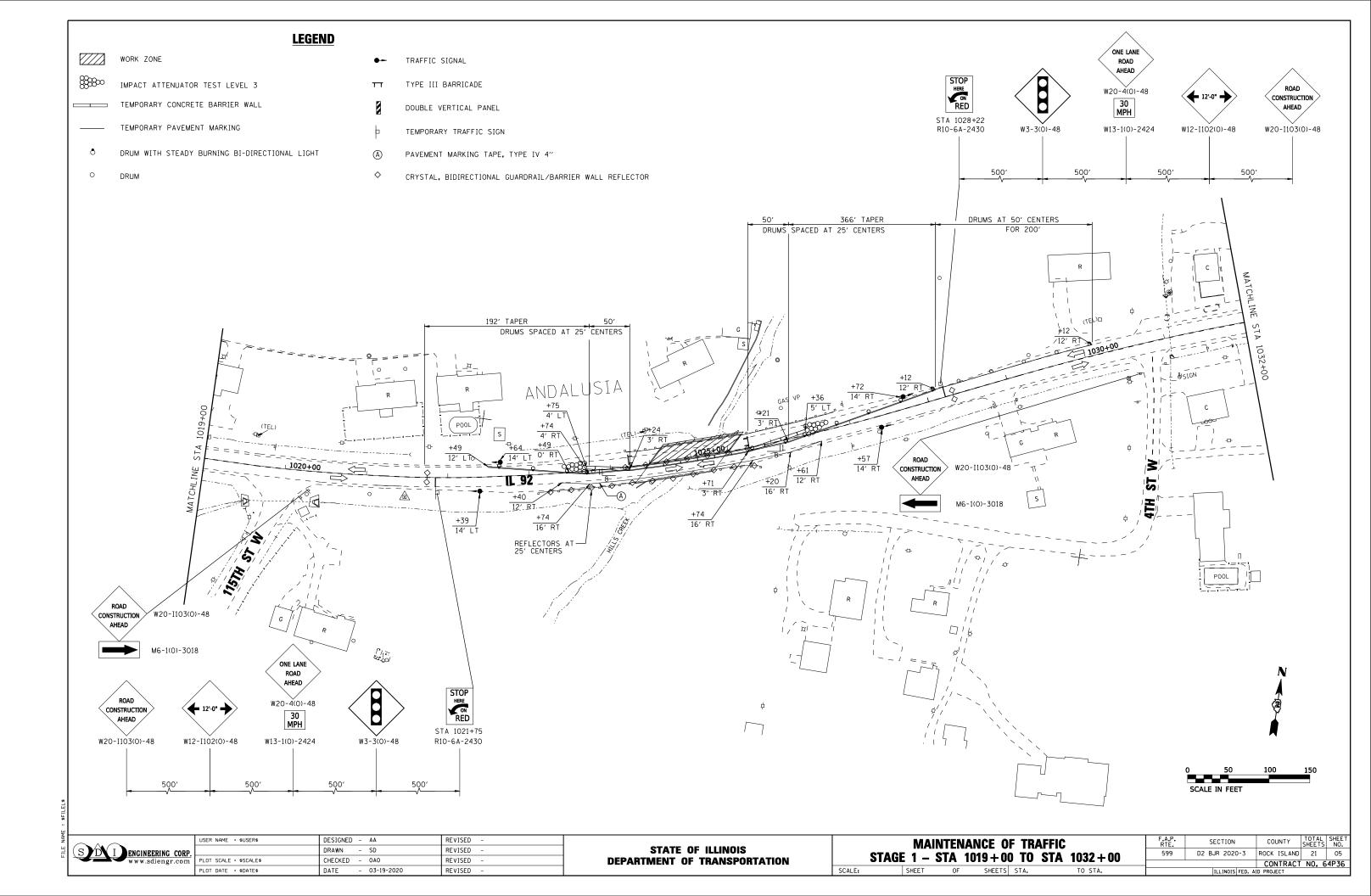
### **STAGE 2 MAINTENANCE OF TRAFFIC**

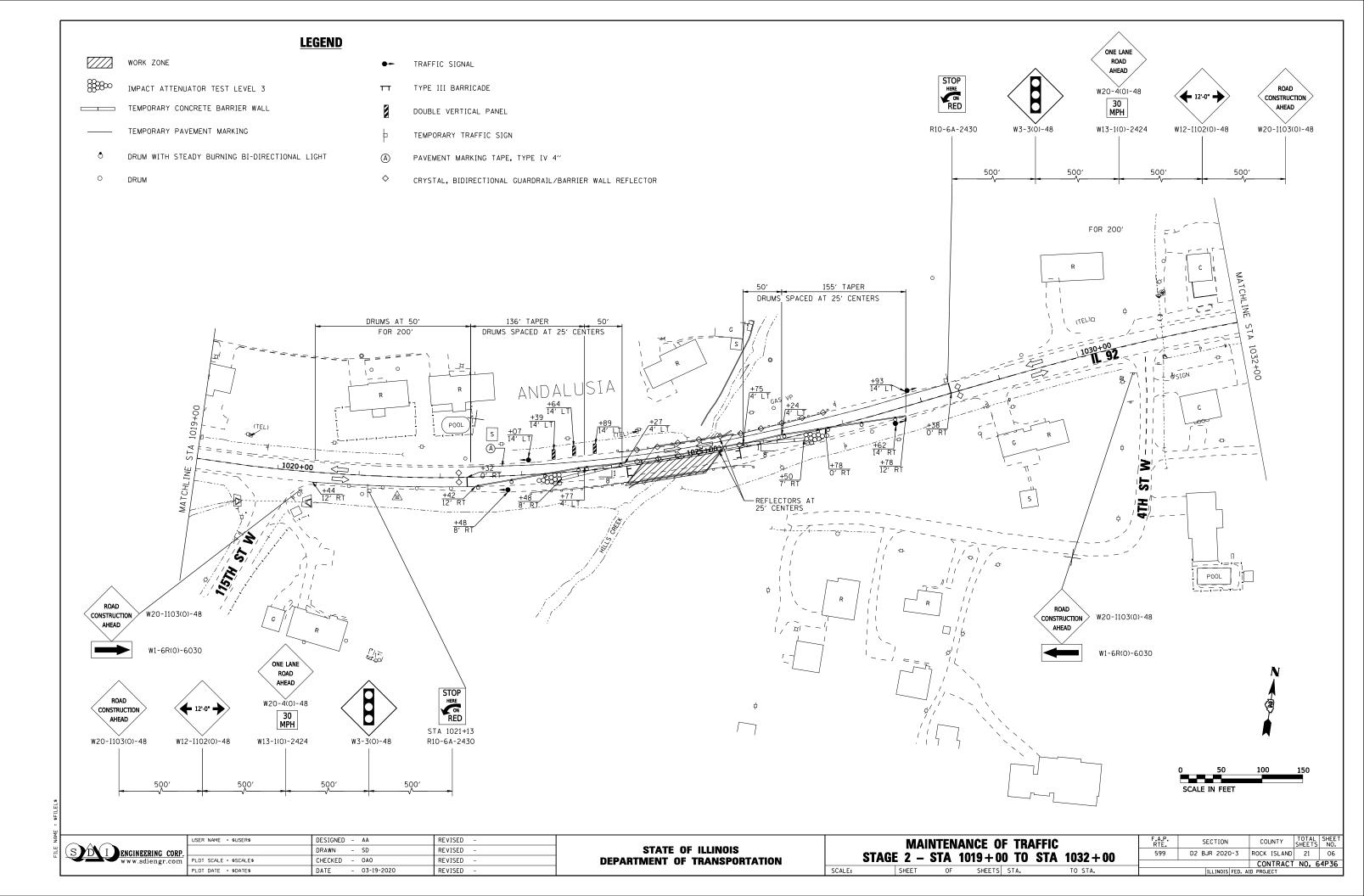
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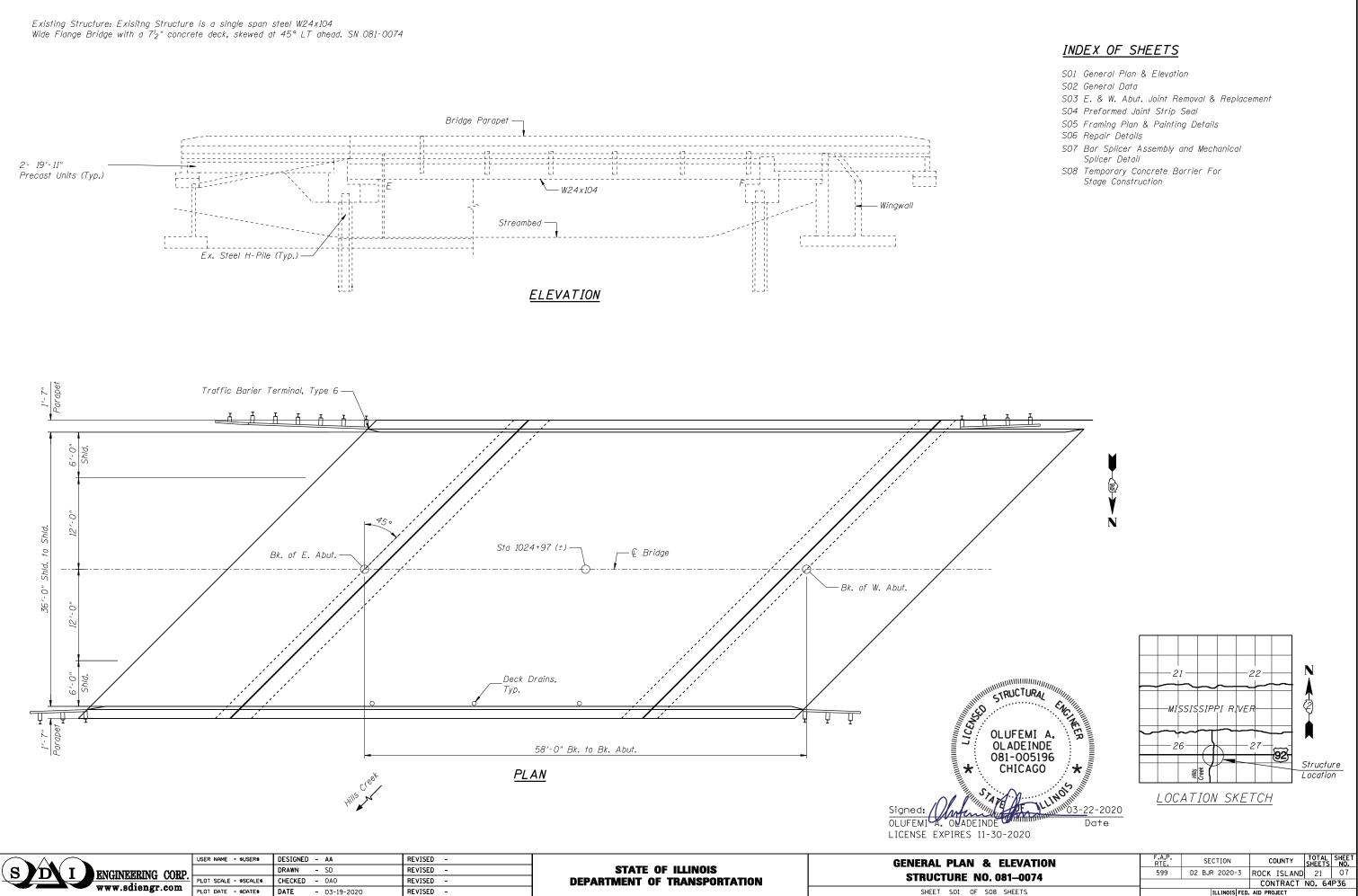
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#### **STAGE 1 MAINTENANCE OF TRAFFIC**







#### <u>GENERAL NOTES</u>

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

2. Reinforcement bars designated (E) shall be epoxy coated.

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

4. All exposed concrete edges shall have a  ${}^3\!_4{}''$  x 45° chamfer, except where shown.

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

6. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than  $50^{\circ}$ F.

7. Containment of cleaning residue is required to control nuisance dust. See Special Provisions.

8. The deck surface shall have its final tined according to Artical 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructures.

9. Fasteners shall be high strength bolts. Bolts  ${}^3_4$ ", open holes  ${}^{13}_{16}$ ", unless otherwise noted.

10. All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".

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

#### <u>SCOPE OF WORK</u>

1. Remove and replace transverse expansion joints at the abutments with preformed joint strip seals.

2. Apply protective coat on the reconstructed transverse joint areas.

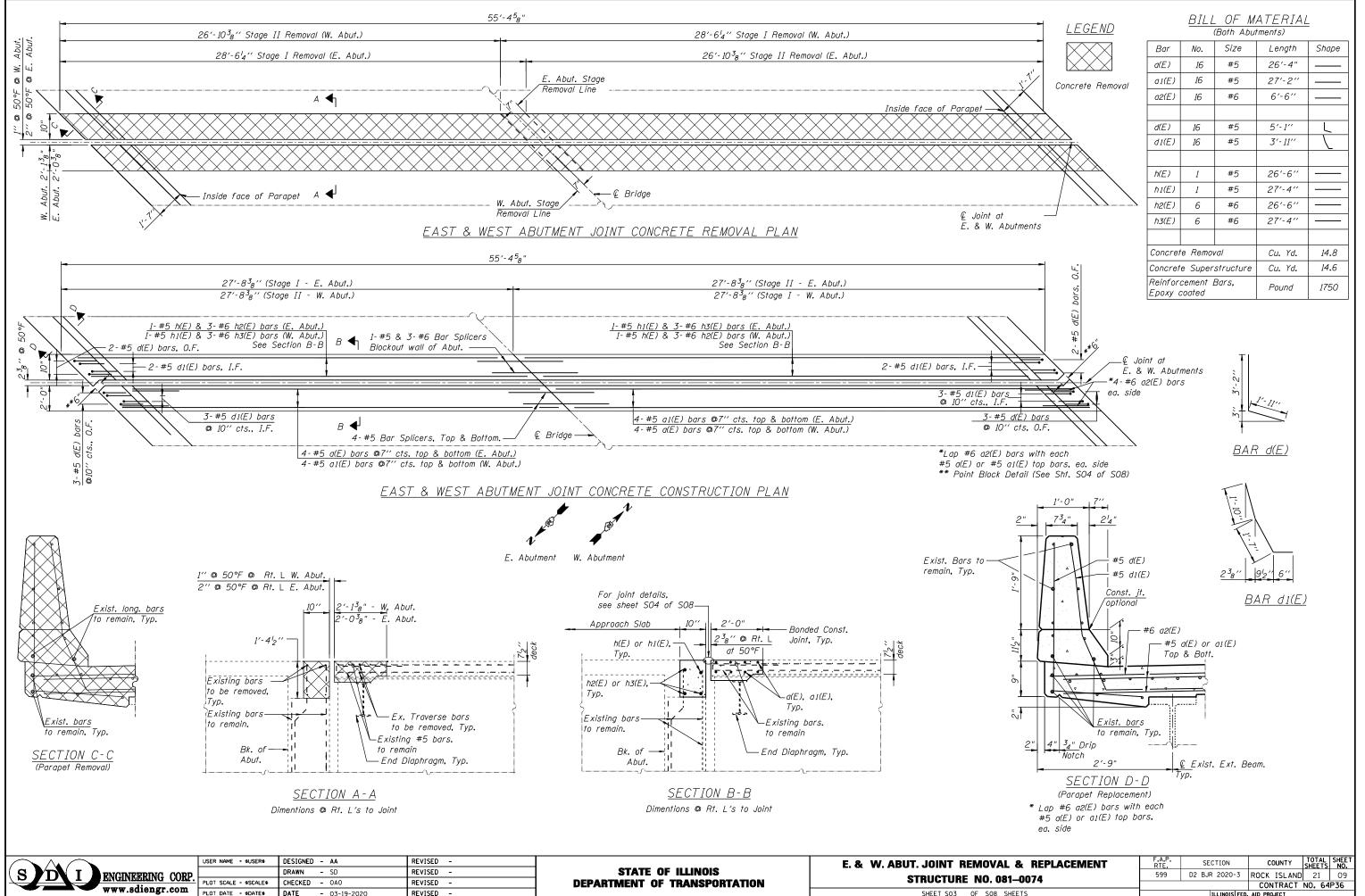
3. Clean and repaint all steel elements located under the expansion joints at Abutments as indicated in plans.

4. Blast and paint expansion bearings at Abutments.

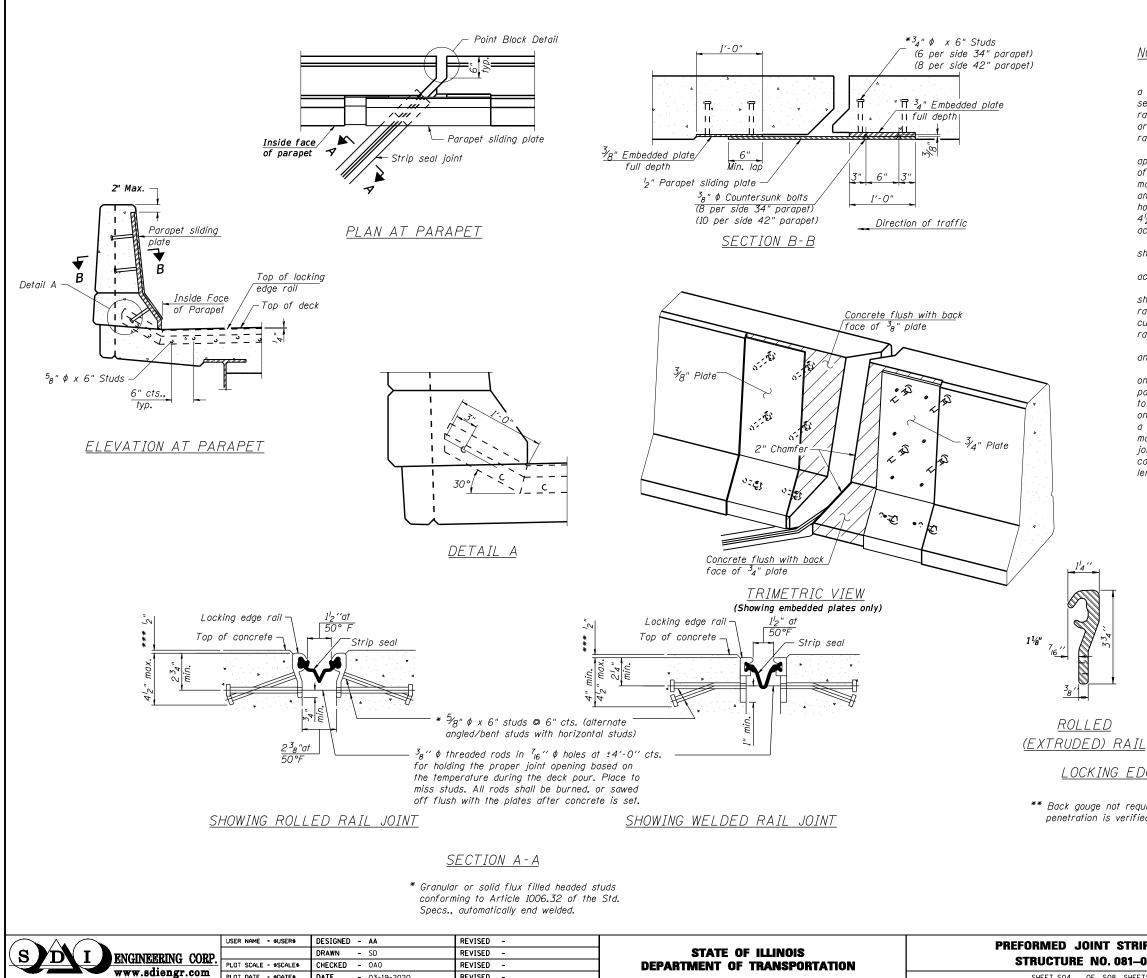
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<b>S D I B</b> ENGINEERING CORP.		DRAWN - SD	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 081–0074	599 D2 BJR 2020-3 ROCK ISLAND 21 08
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UNIT	SUPER	SUB	TOTAL
Cu. Yd.	14.8	-	14.8
Cu. Yd	14.6	-	14.6
Sq. Yd	39.5	-	39.5
L Sum	1	-	1
Pound	1750		1750
Each	24	-	24
Foot	113	-	113
L Sum	1		1
Pound	580		580
Pound	790		790
	Cu. Yd. Cu. Yd Sq. Yd L Sum Pound Each Each L Sum Pound	Cu. Yd.     14.8       Cu. Yd.     14.6       Sq. Yd     39.5       L Sum     1       Pound     1750       Each     24       Foot     113       L Sum     1       Pound     580	Cu. Yd.     14.8       Cu. Yd.     14.6       Sq. Yd     39.5       L Sum     1       Pound     1750       Each     24       Foot     113       L Sum     1

#### TOTAL BILL OF MATERIAL



TULINOIS FED AID PROJECT



PLOT DATE = \$DATE\$ DATE

- 03-19-2020

REVISED -

#### NOTES:

The strip seal shall be made continuous and shall have a minimum thickness of  $l_{4}$ ". 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<sup>1</sup><sub>2</sub>" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

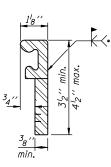
The manufacturer's recommended installation methods shall be followed.

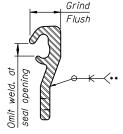
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

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.





WELDED RAIL

LOCKING EDGE RAILS

\*\* 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.

<u>BILL OF MATE</u>	RIAL	
Item	Unit	Total
Preformed Joint Strip Seal	Foot	113

	F.A.P.	SECTION	COUNTY	TOTAL	
T STRIP SEAL	RTE.	JECTION	000011	SHEETS	NO.
. 081–0074	599	D2 BJR 2020-3	ROCK ISLAND	21	10
			CONTRACT	NO. 64	P36
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— Exisiting WF Diaphragm, Typ. Exisiting WF Beam, Typ. - - - ----------(B)34′-3" (A)39'-2" Out to Out Deck 3 \_\_\_\_ \_ \_ \_ \_ @ 5'-8<sup>l</sup>2" = (B)<del>----</del> \_\_\_\_ Spac. \_ \_ \_ <u>\_\_\_\_</u> 9 ----10'-0", Тур. ea. end \_ \_ \_ . 58′-0″ W. Abut.--E. Abut. (Back to Back of Abutments)

PARTIAL FRAMING PLAN See Sht. SO6 of SO8 for structural repair details



### <u>LEGEND</u>:

	Cleaning and Painting Structural Steel <b></b>
(A)	Beam End Repair

(B)Diaphragm Replacement

TYP. INTERIOR AND E.
<u>Exist. W24 BEAN</u>

### NOTES:

- Stuctural steel within the 10'-0" limits near bearings, including splices, end diaphragms and beam extensions behind bearings, shall be cleaned according to SSPC-SP10.
   The Designated areas cleaned per Near White Blast Cleaning -SSPC-SP10 and per Commercial Grade Power Tool Cleaning -SSPC-SP15 shall be painted according to the requirement of Paint System 1-0Z/E/U. The color of the final finish coat shall be interstate Green. Munsell No.7.5G 4/8.

BILL
ITEMS

Cleaning and Painting Steel E

Containment and Disposal of Paint Cleaning Residues, No.

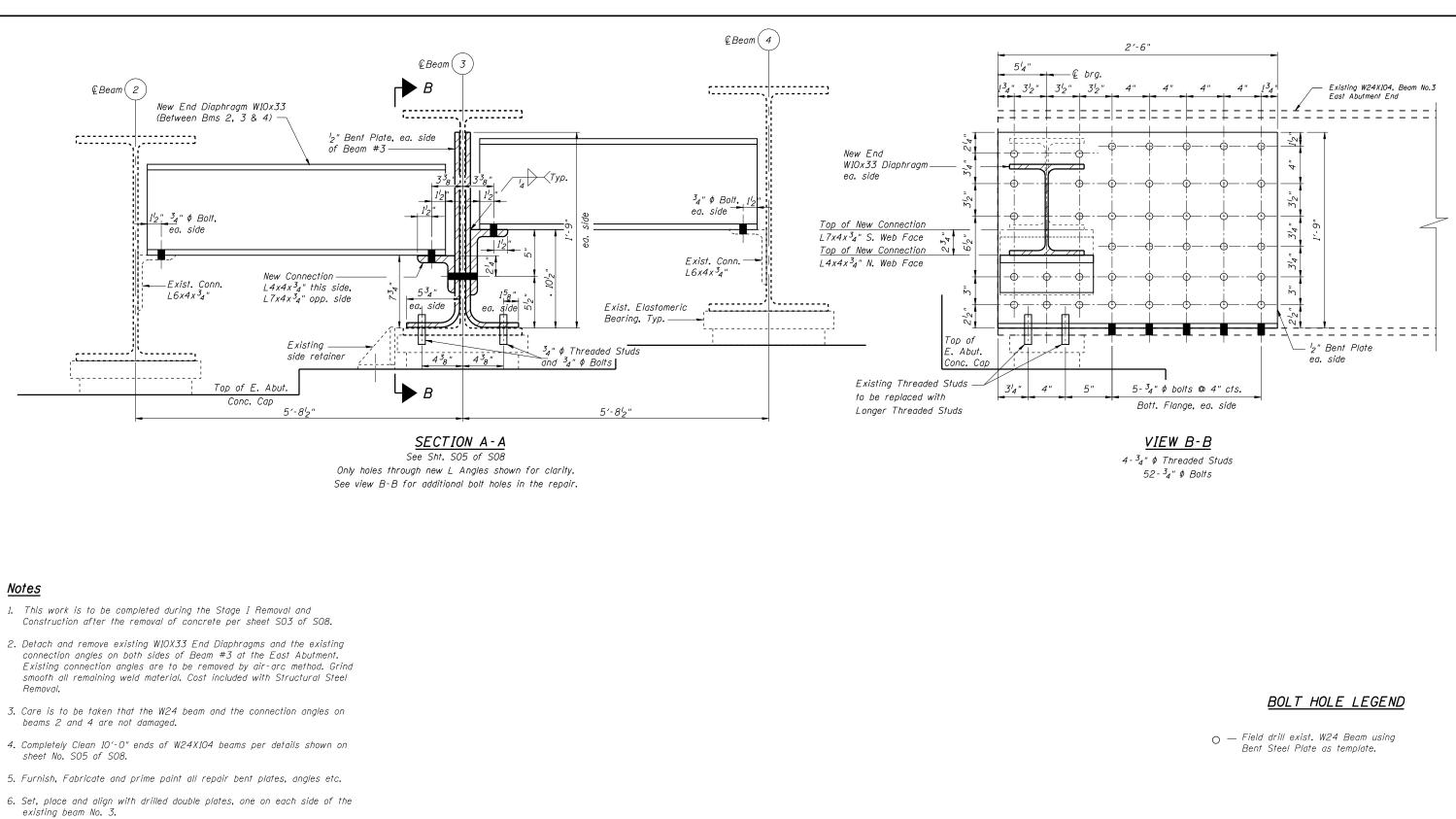
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www.sdiengr.com PLOT DATE = #DATE* DATE - 03-19-2020 REVISED -	

Limits of cleaning and painting on irders (see note 1)



### BILL OF MATERIAL

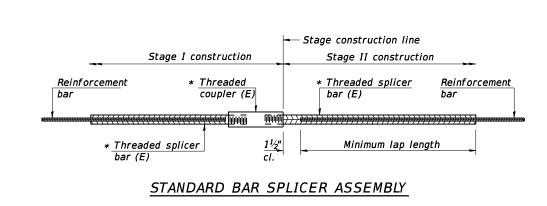
	UNIT	QUANTITY
Bridge No. 1	L Sum	1
Non-Lead 1	L Sum	1



7. Set in place and fasten new dual diaphragm W10X33 to the new and existing cleaned connection angles.

						Item	Unit	Quantity
						Structural Steel Repair	Pound	790
						Structural Steel Removal	Pound	580
	USER NAME = \$USER\$	DESIGNED - AA	REVISED -		REPAIR DETAILS	F.A.P. RTE. SECTION	COUNTY	Y TOTAL SHEE SHEETS NO.
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www.sdiengr.com	1201 00122 0001220		REVISED -	DEPARTMENT OF TRANSPORTATION				CT NO. 64P36
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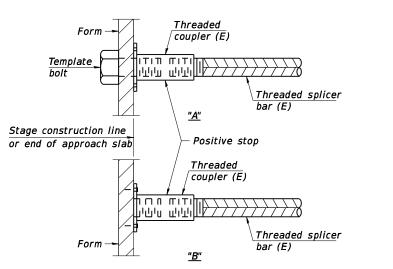
### BILL OF MATERIAL



Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

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

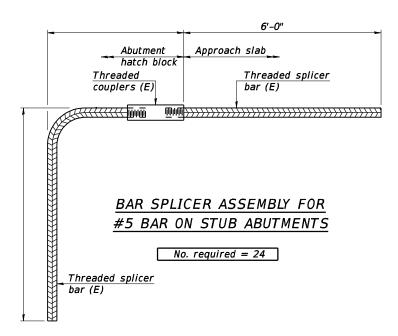
Location	Bar size	No. assemblies required	Minimum lap length
Abutment Hatch Block	#5	2	3'-4"
Abutment Hatch Block	#6	6	4'-0"
End of Deck at Abutments	#5	16	3'-6"



#### INSTALLATION AND SETTING METHODS

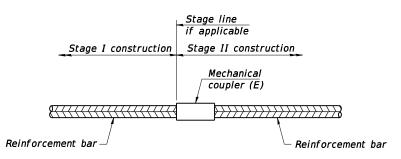
"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



yield strength. alternatives.

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<b>S D I ENGINEERING CORP.</b>	DRAWN - SD PLOT SCALE = \$SCALE\$ CHECKED - 040	REVISED -	STATE OF ILLINOIS	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 081-0074	599 D2 BJR 2020-3 ROCK ISLAND 21 13
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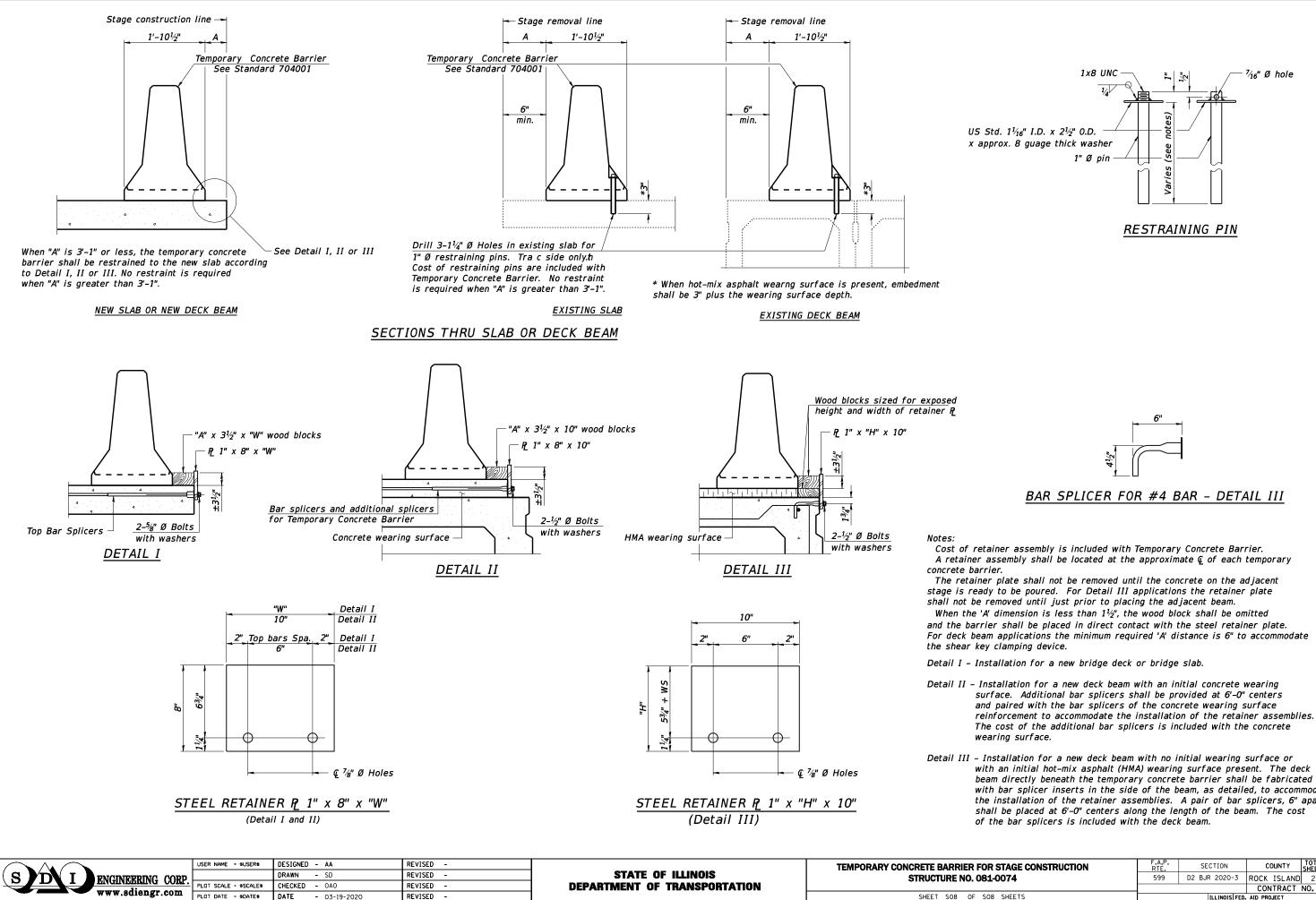


### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

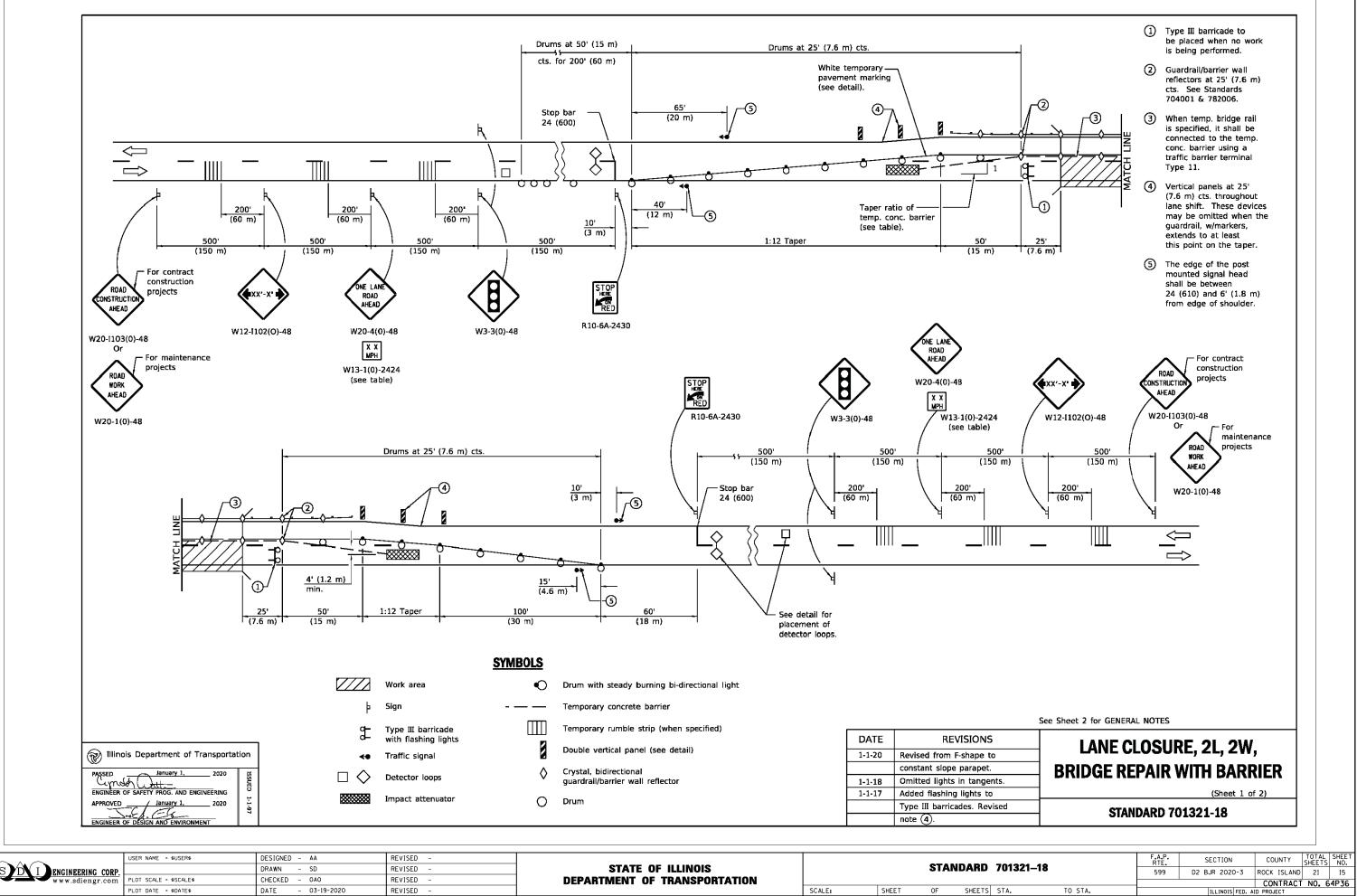
<u>NOTES</u> Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi

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 Speci cations.m See approved list of bar splicer assemblies and mechanical splicers for

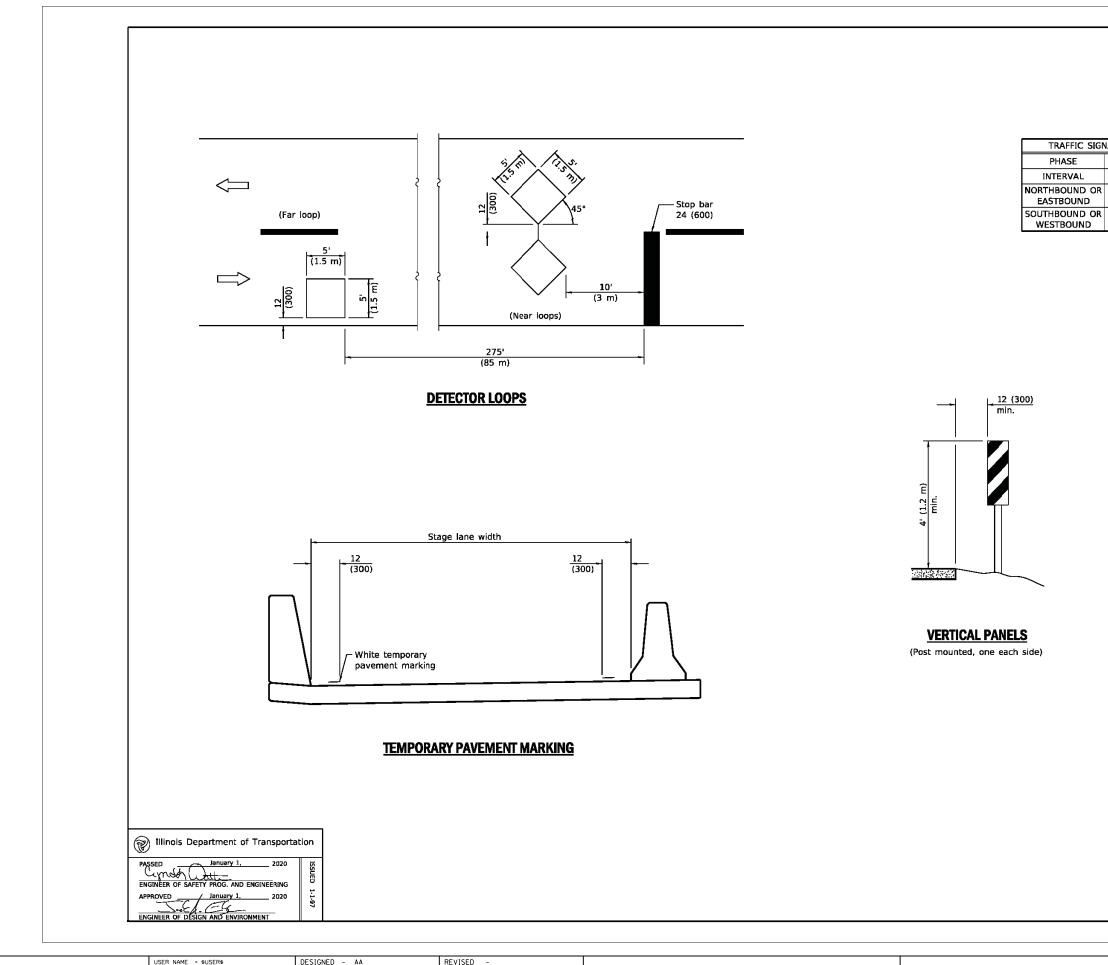


with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart,

OR STAGE CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	R	R	R	G	Y	R		

TEMPORARY CONCRETE BARRIER							
NORMAL	TAPER						
POSTED SPEED	RATIO						
40 mph AND ABOVE	12:1						
BELOW 40 mph	8:1						

ADVISORY SPEED LIMIT								
NORMAL POSTED SPEED	ADVISORY SPEED							
55 - 45 mph	40 mph							
40 mph	35 mph							
35 - 30 mph	30 mph							

#### **GENERAL NOTES**

This Standard is used where, at any time, any vehicle, equipment, workers, or their activities will encroach on one lane of a bridge. Traffic signals and a positive barrier are required.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

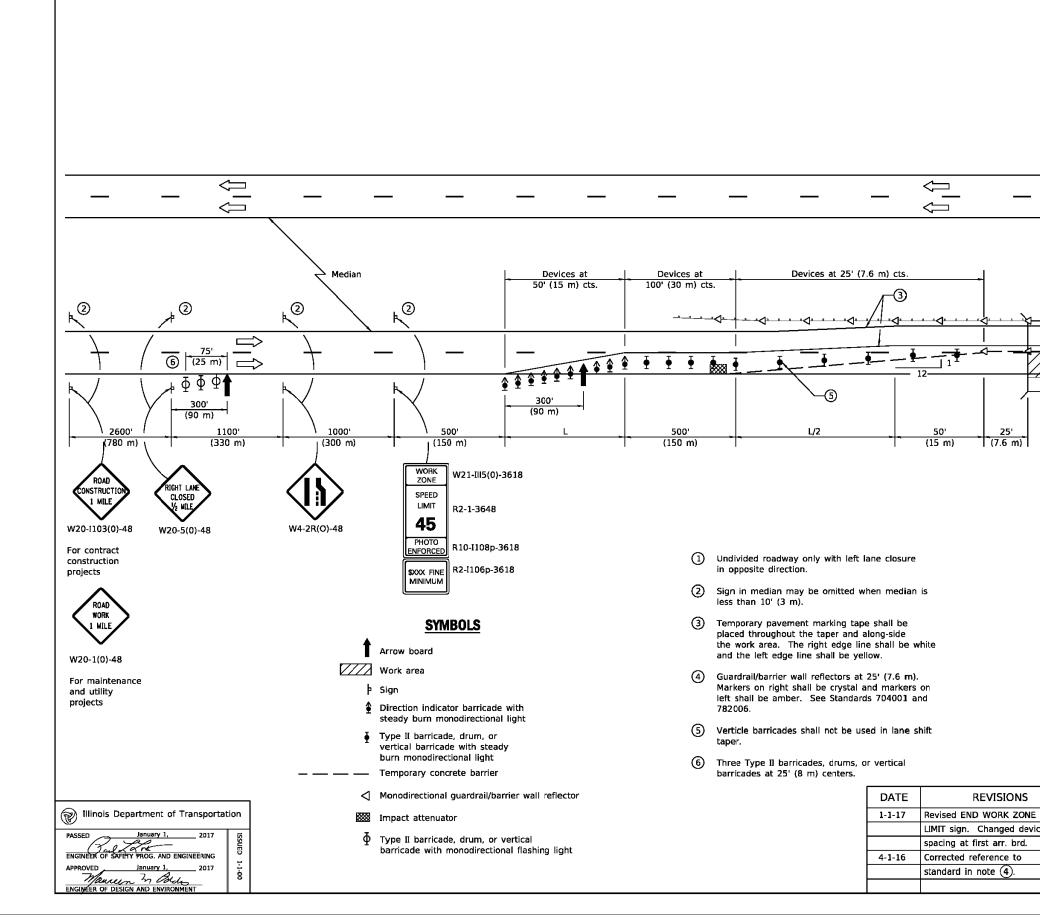
All dimensions are in inches (millimeters) unless otherwise shown.

## LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

(Sheet 2 of 2)

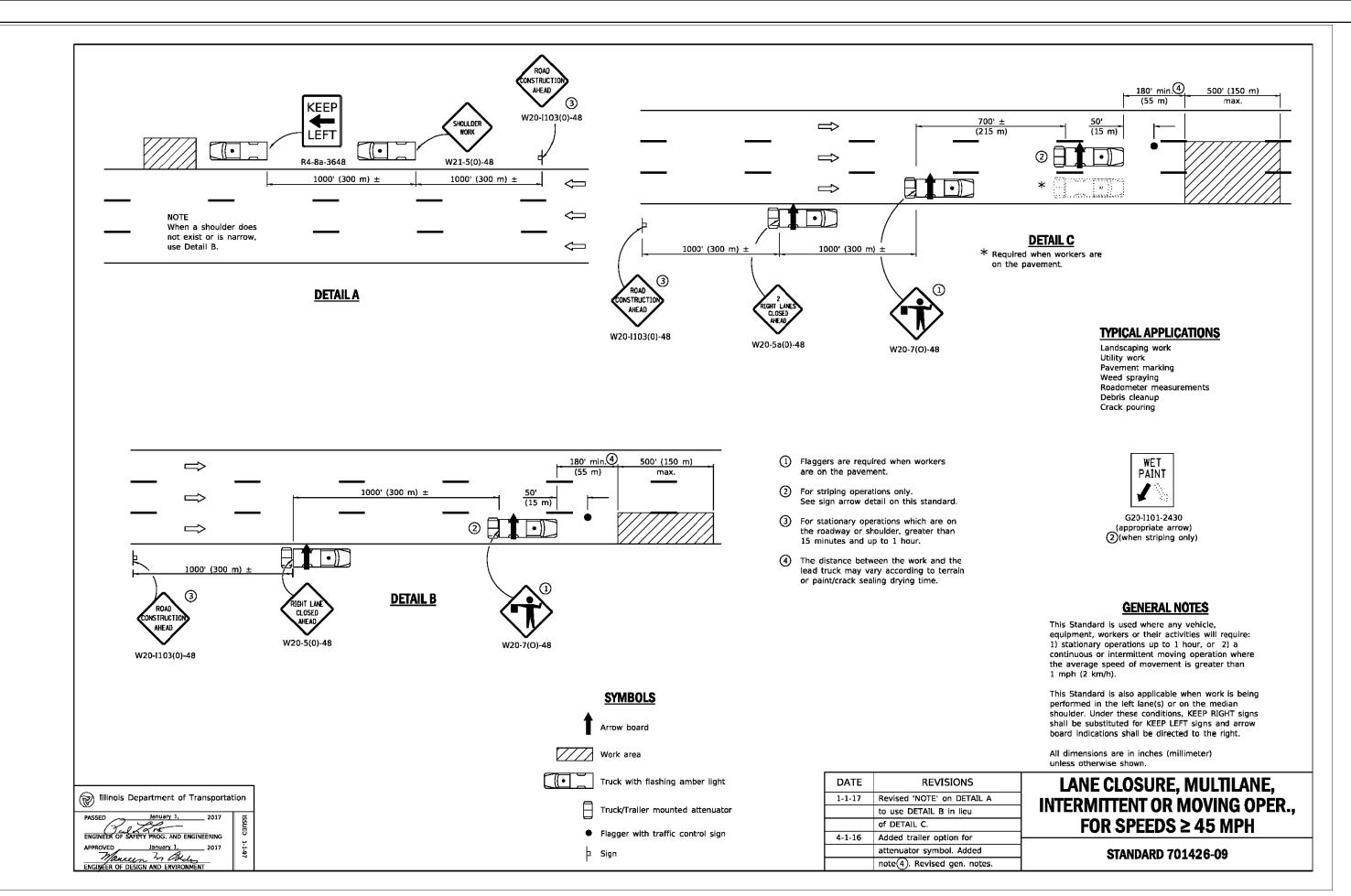
#### STANDARD 701321-18

DARD 701321–18			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
			599	D2 BJR 2020-3	ROCK ISLAND	21	16				
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	4         G20-I103-6036         This standard is us vehicle, equipment encroach on the p within 24 (600) of daylight operation temporary concret         When work is bein the set up would I shown.         Calculate L as followed and the shown.	END WORK ZON SPEED LIM GENERAL I add where at a t, workers or th avement or on the edge of pa exceeding one e barrier is util ag performed in be a mirror image	T IOTES ny time any eir activities wil the shoulder wement for day and where ized. the left lane,		
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	STA	NDARD 70:	1423-10		
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