STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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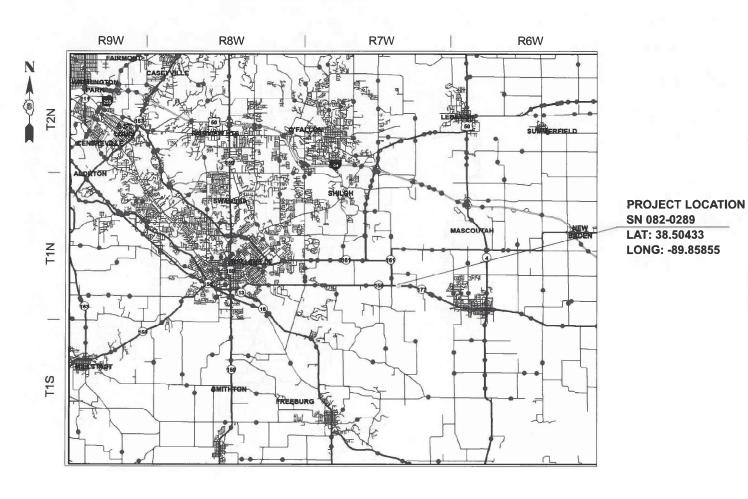
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PROPOSED HIGHWAY PLANS

FAU ROUTE 9251 (IL 177) SECTION 29BJR, BDR BRIDGE DECK REPAIRS, BRIDGE JOINT REPLACEMENT ST. CLAIR COUNTY

C-98-093-23



GROSS / NET LENGTH = 760 FT. = 0.144 MILE

D-98-049-23



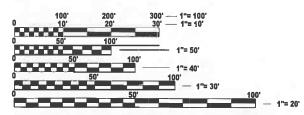
FUNCTIONAL CLASSIFICATION MINOR ARTERIAL 2021 ADT = 5750SU 4.4% MU = 1.6%

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY

OF THE STATE OF ILLINOIS

REV. - MS



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

PROJECT ENGINEER: CHERYL KEPLAR PROJECT MANAGER: KAREN CHALLANDES

CONTRACT NO. 76T26

INDEX OF SHEETS

- COVER SHEET
- INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS, AND MIX CHART
- SUMMARY OF QUANTITIES
- TYPICAL SECTION AND PERIMETER EROSION BARRIER DETAIL
- STAGING SHEET
- WIDTH RESTRICTION SIGNING
- BRIDGE PLANS

GENERAL NOTES

1 UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

CHARTER COMMUNICATIONS INC. CLEARWAVE FIBER LLC EVERSTREAM GLC HOLDING COMPANY, LLC FRONTIER COMMUNICATIONS MASCOUTAH COMMUNITY UNIT SCHOOL DISTRICT #19

- 2 NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.
- 3 THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- 4 IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 5 THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 6 TWO CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED TWO WEEKS PRIOR TO LANE CLOSURE. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

HIGHWAY STADARDS

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS 000001-08 001001-02 AREAS OF REINFORCEMENT BARS

DECIMAL OF AN INCH AND OF A FOOT 001006 280001-07 TEMPORARY EROSION CONTROL SYSTEMS

420001-10 PAVEMENT JOINTS

631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6

701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH

701901-09 TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIER 704001-08

TYPICAL PAVEMENT MARKINGS 780001-05

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS 782006-01

COMMITMENTS

NONE

MIX CHART

SCALE:

	BASE COURSE WIDENING (stage)				
MIXTURE USE	SURFACE	BINDER			
AC/PG	PG 64-22	PG 64-22			
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70			
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0			
FRICTION AGG	MIXTURE "D"	MIXTURE "B"			
QUALITY MGMT PROGRAM	QC/QA	QC/QA			
MatTranDev Required?	no	no			

USER NAME = karen.challandes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/29/2024	DATE -	REVISED -

	INDEX O	F SHEET	s, HIGHW	AY ST	ANDARDS	
GEN	ERAL NO	TES, COI	MMITMEN	ITS, AN	ID MIX CHART	

COUNTY	TOTAL SHEETS	SH
ST. CLAIR	26	:
CONTRACT	NO 761	T26

SECTION

REV. - MS

29BJR,BDR SHEET SHEETS STA.

					CONSTR. CODE
					100% STATE
Ī					MINOR STRUCTURES
	CODE			TOTAL	0047
	NO.	ITEM	UNIT	QUANTITY	082-0289
	20200500	EARTH EXCAVATION (WIDENING)	CUYD	59	59
	,				
	20300100	CHANNEL EXCAVATION	CUYD	2400	2400
	,				
	28000400	PERIMETER EROSION BARRIER	FOOT	500	500
	,				
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	239	239
	44004250	PAVED SHOULDER REMOVAL	SQYD	267	267
	50102400	CONCRETE REMOVAL	CUYD	33.4	33.4
,	50300255	CONCRETE SUPERSTRUCTURE	CUYD	70	70
,					
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10300	10300
-	50800515	BAR SPLICERS	EACH	56	56
	N 27 27 50 250 250 250 250 250 250 250 250 250		5.000 NY 1		
*	63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	4	4
,			011.110		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
	67400400	MODILIZATION	I CUM	1	1
1	67100100	MOBILIZATION	L SUM	1	1
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
	70100403	TOTAL TO SOME AND THOSE OFFICE AND AND TOTAL	EACH	1	1
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
	, 0,0000	The second secon	2 30101	1	1,

* SPECIALTY ITEM

USER NAME = karen.challandes	DESIGNED -	REVISED -
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	CHECKED -	REVISED -
PLOT DATE = 3/29/2024	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

					F.A.U. RTE. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
				9251	29BJR, BDR		ST. CLAIR	26	3	
								CONTRACT	NO. 761	726
CALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			

Li: cost of outside	c:\pw_work\pwidot\challandeske\d0894607\D876T26-sht-8	
i	NAME:	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE MINOR STRUCTURES 0047 082-0289
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	Ī
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	808	808
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	220	220
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	361	361
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400	400
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1422	1422
			500	
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	8869	8869
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1

*SPECIALTY ITEMS

USER NAME = karen.challandes	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/29/2024	DATE -	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTR. CODE

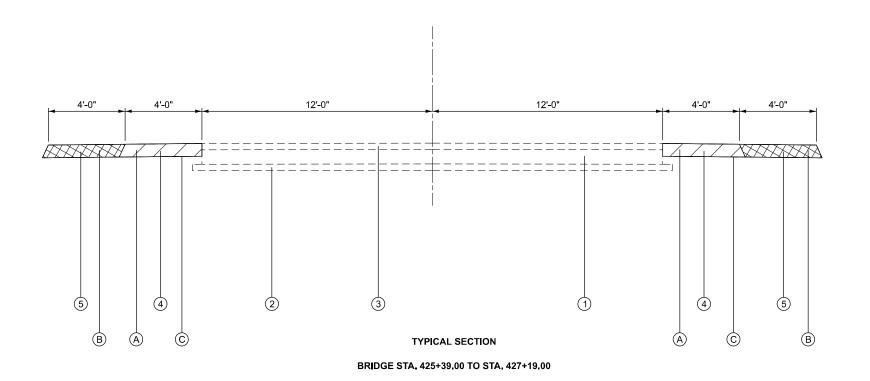
					F.A.U. RTE.			COUNTY	TOTAL SHEETS	SHEET NO.		
							9251	29BJR,BD	R	ST. CLAIR	26	4
										CONTRACT	NO. 76	Г26
	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				

USER NAME = karen.challandes	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/29/2024	DATE -	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

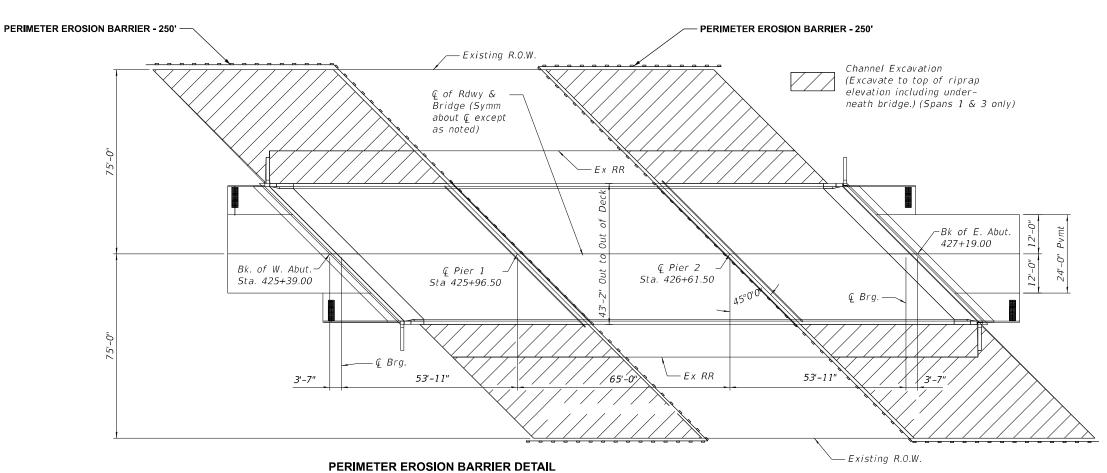
							F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					9251	29BJR, BDR	ST. CLAIR	26	5		
									CONTRACT	NO. 761	Г26
	SCALE:	SHEET	OF	SHEETS		ILLINOIS FED. A	D PROJECT				

				CONSTR. CODE
				100% STATE
				MINOR STRUCTURES
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	082-0289
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQYD	28	28
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	3260	3260
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1
Z0010615	CLEANING EXISTING INLETS	EACH	4	4
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10	10
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQYD	100	100



LEGEND

- EXISTING PCC PAVEMENT, 8"
- EXISTING GRANULAR SUB-BASE 4"
- EXISTING RESURFACING, VARIES
- EXISTING HMA SHOULDER, VARIES 8"-14"
- EXISTING AGGREGATE SHOULDER, VARIES
- PROPOSED PAVED SHOULDER REMOVAL
- PROPOSED EARTH EXCAVATION (WIDENING)
 PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 8"



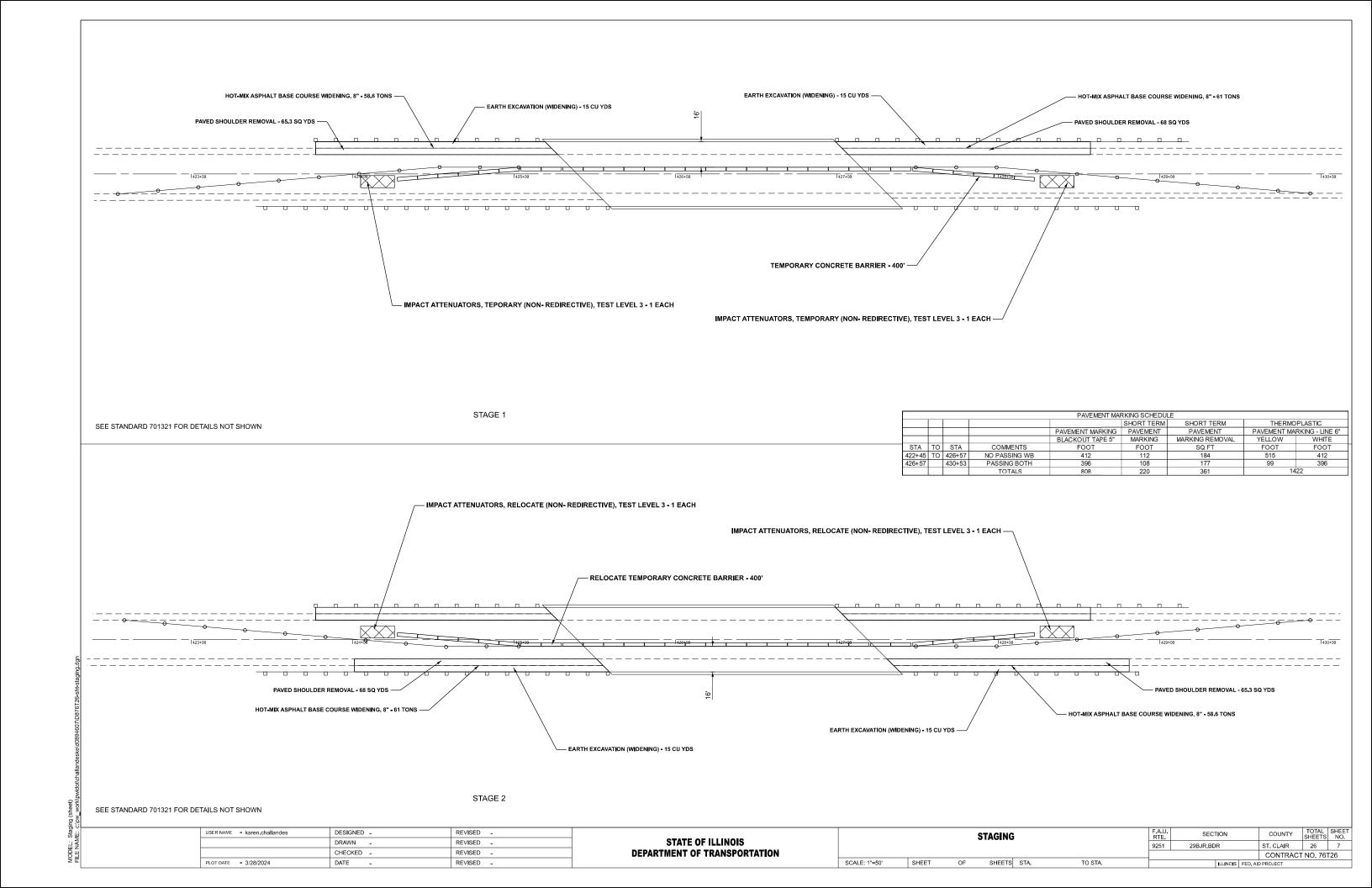
PERIMETER EROSION BARRIER REQUIRED AROUND ALL CHANNEL EXCAVATION. PERIMETER EROSION BARRIER PLACED AT ENGINEER'S DIRECTION.

USER NAME = karen.challandes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/29/2024	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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SHEET	OF	SHEETS	STA.	TO ST

COUNTY 9251 29BJR,BDR ST. CLAIR CONTRACT NO. 76T26



TOTAL SHEET NO.

COUNTY

CONTRACT NO. 76T26

ST. CLAIR

SECTION

29BJR,BDR

9251

WIDITH RESTRICTION SIGNING

IL 177 OVER LOOP CREEK SN 082-0289

SHEETS STA.

SCALE:

NOTES:

AHEAD

USER NAME = karen.challandes

PLOT DATE = 3/28/2024

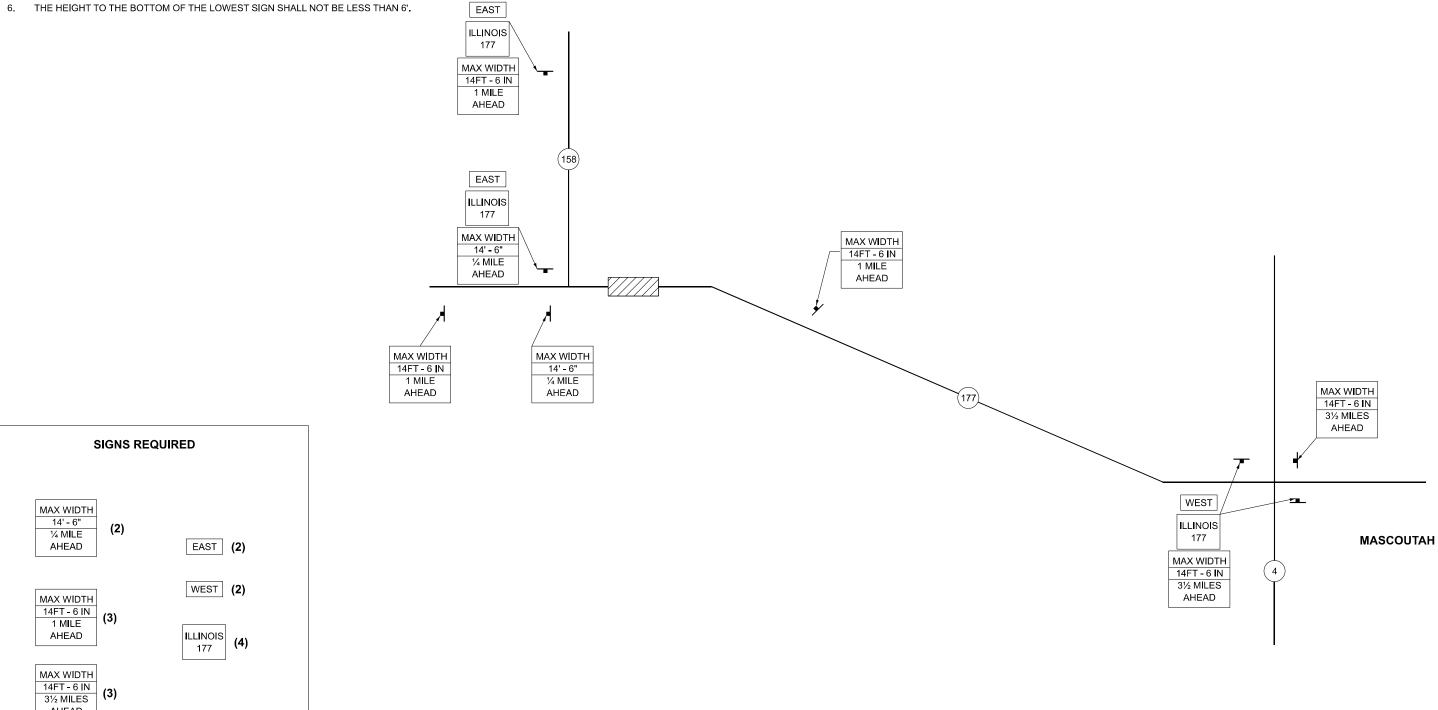
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DRAWN

DATE

- 1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY IDOT.
- 2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE RE/RT. THE POSTS SHALL REMAIN PROPERTY OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLOPE AT 618-3494-2189.
- 4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDTH RESTRICTION SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
- 5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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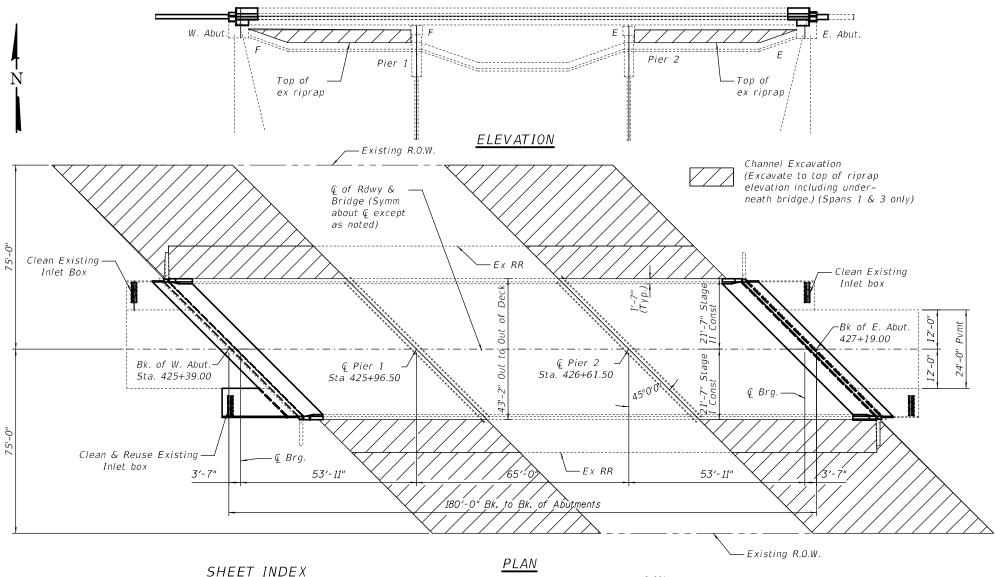
REVISED

REVISED -

Existing Structure: 082-0289 was built in 1990 under F.A.S. Route 1848, Sec 29-4BR-1, contract 96204. The bridge consisted of 3 continous wide flange beams supported on pile bent abutments and piers. In 2017 the bridge deck was sealed.

The deck ends, mudwalls, approach ends & SW bridge approach shoulder pavement shall be removed and replace solid. However, the inlet box shall be cleaned & reused. The remaining inlet boxes shall be cleaned. Before replacing solid, the beam ends shall be cleaned, painted and existing 12 diaphragms at abutments removed. The deck shall be patched.

Stage Construction shall be used.



- 1) General Plan and Elevation
- 2) Deck Section
- 3) Jt. Removal (W Abut.)
- 4) Jt Removal (E Abut) 5) Jt Replacement (W. Abut.)
- 6) Jt. Replacement (E. Abut.)
- 7 Details B & C (W Abut)
- 8) Details D & E (E Abut)
- 9) Cross Section (Appr. Rem & Repl.) (W. Abut.)
- 10) Cross Section (Appr. Rem & Repl.) (E. Abut.)
- 11) Existing & Proposed Jt Details (Except Bridge Appr Shld Pvmt)
- 12) Existing & Proposed Bridge Appr. Shld Pvmt 13) Diaphragm at W. Abut.

- 14) Diaphragm at E. Abut. 15) Temporary Concrete Barrier 16) Bar Splicer
- 17) SW Bridge Appr. Shld. Removal Detail 18) Repl of SW Bridge Appr Shld around Ex Inlet Box

EX.PROFILE GRADE

DESIGN STRESSES FIELD UNITS

f'c = 4,000 psi fy = 60,000 psi (Reinforcement)

-SN 082-0289 Scheve Park ntchler 177 Mascoutal

LOCATION SKETCH

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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.

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

Bridge deck concrete sealer shall be placed on top/inside faces of parapets full length, curbs & on the entire deck surface after patching. In addition, place sealer on top of new SW Bridge Approach Shoulder Pavement..

Quantities of deck repairs are estimated. The engineer shall show actual locations of deck repairs on as-built plans.

The concrete at joints shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with "Concrete Superstructure".

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". After removal of deck ends and end diaphragms, but prior to encasement of the steel beams, all beams, bearing and other structural steel within 7' (measured along the beam) of the deck joints shall be cleaned per Near White Blast Cleaning-SSPC

The designated areas cleaned per Near White Blast Cleaning shall be painted according to the requirements of paint system I-OZ/E/U. The color of the final finish coat for all steel surfaces shall be Interstate Green (Munsell No. 7.5G 4/8).

Containment of cleaning residue is required to control nuisance dust. See special provisions for Containment and Disposal of Non-Lead Paint Cleaning Residues.

SSPC QP1 Cerification is required for this contract.

TOTAL BILL OF MATERIAL

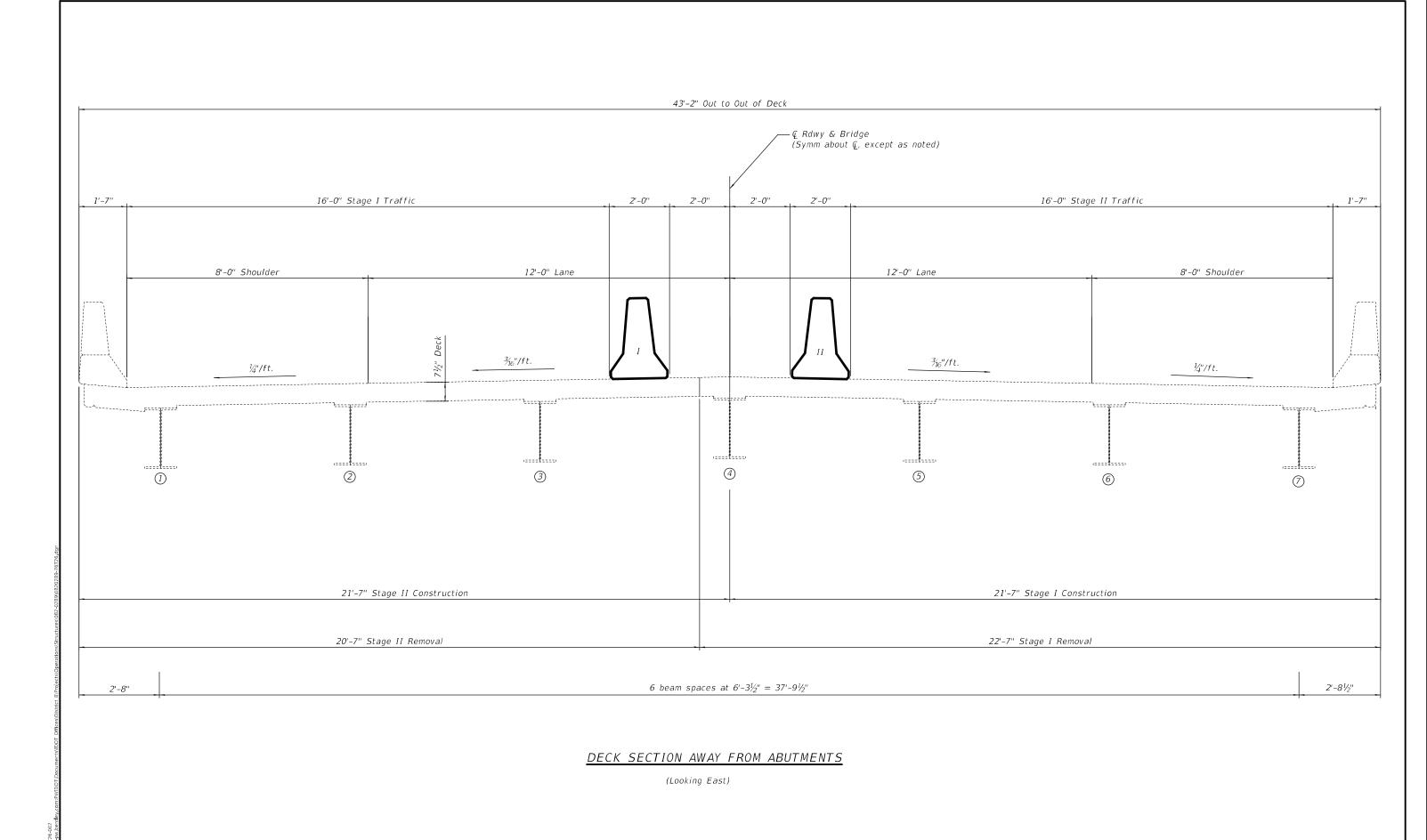
ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	33.4
Concrete Superstructure	Cu. Yd.	70.0
Reinforcement Bars, Epoxy Coated	Pound	10300
Bar Splicers	Each	56
Bridge Approach Shoulder Removal	Sq. Yd.	28
Bridge Deck Concrete Sealer	Sq. Ft.	8869.0
Structural Steel Removal	Pound	3260
Remove and Reerect Traffic Barrier Terminals,	Each	4
Type 6		
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10
Deck Slab Repair (Partial)	Sq. Yd.	100
Cleaning and Painting Steel Bridge, No. 1	L. Sum	1
Containment & Disposal of Non-Lead Paint	L. Sum	1
Cleaning Residues No. 1		
Cleaning Existing Inlet	Each	4
Channel Excavation	Cu. Yd.	2400

DESIGNED - Anthony Y. Vinson SER NAME = Anthony, vinso REVISED DRAWN Anthony Y. Vinson REVISED LOT SCALE = 0:2.0000 ':" / in. HECKED REVISED

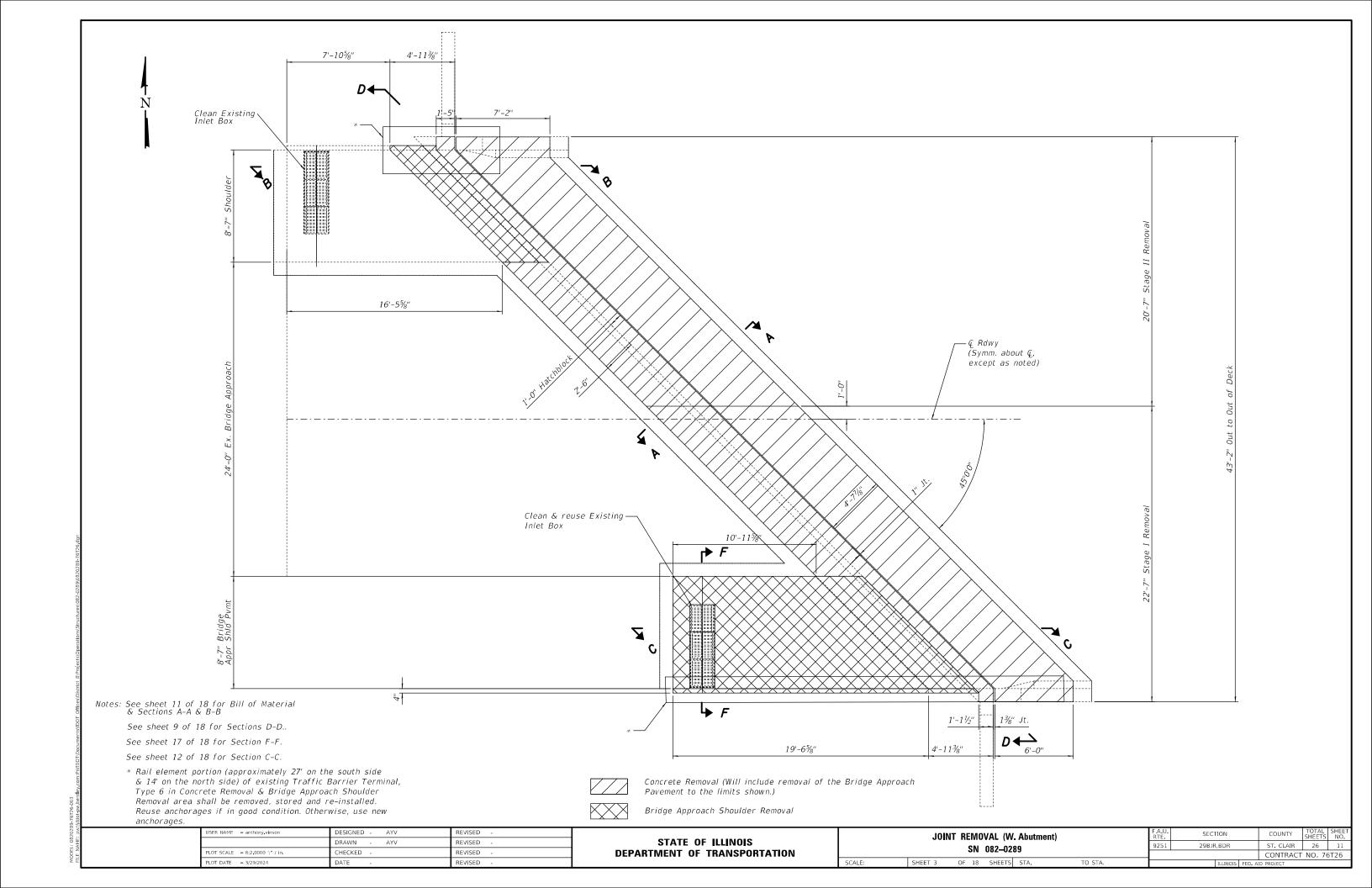
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** GENERAL PLAN & ELEVATION (IL 177 over Loop Creek) 9251 SN 082-0289 OF 18 SHEETS STA SHEET 1

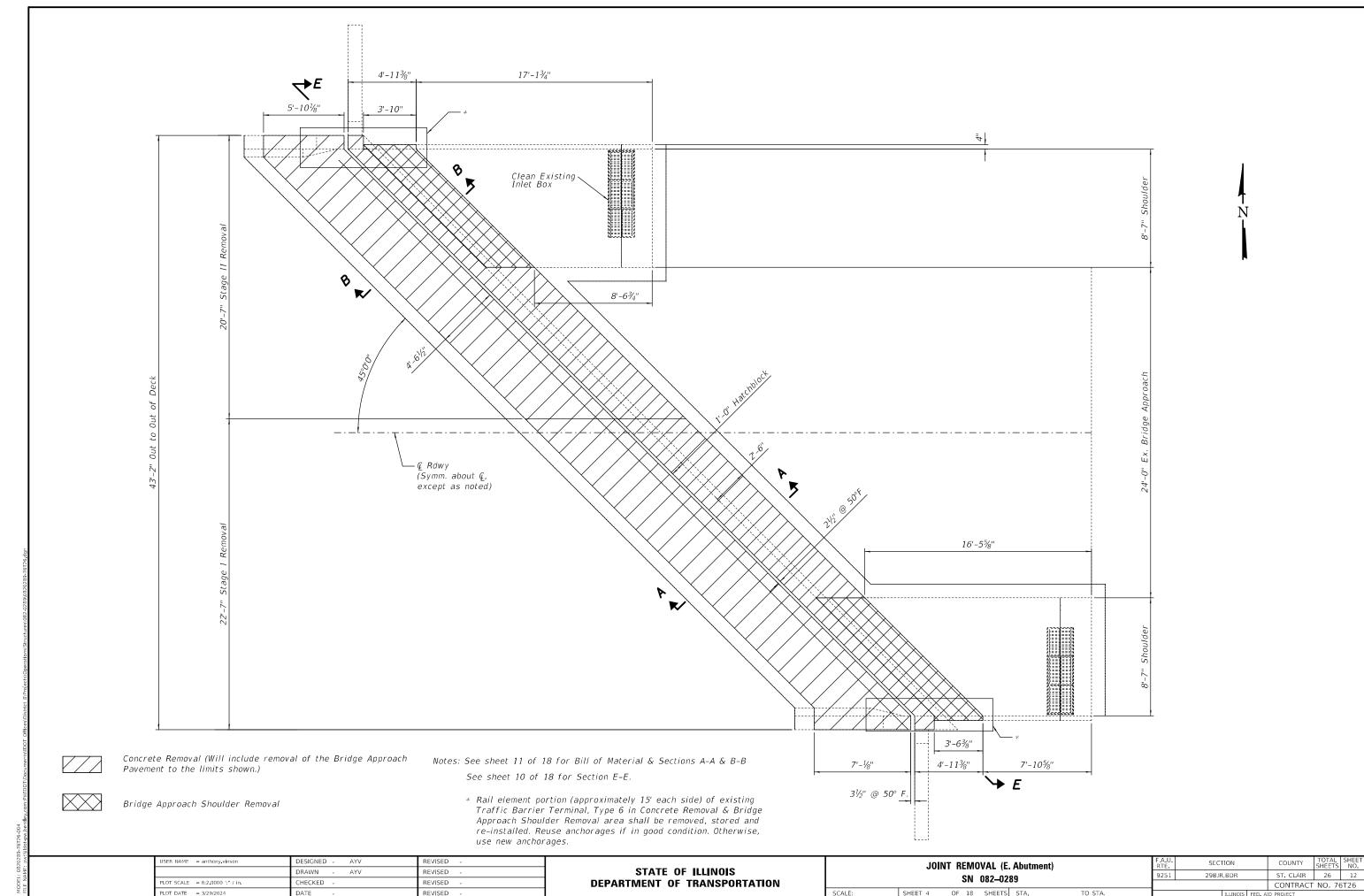
SECTION 29BJR.BDR ST. CLAIR 26 CONTRACT NO. 76T26

EXPIRES 11-30-2024

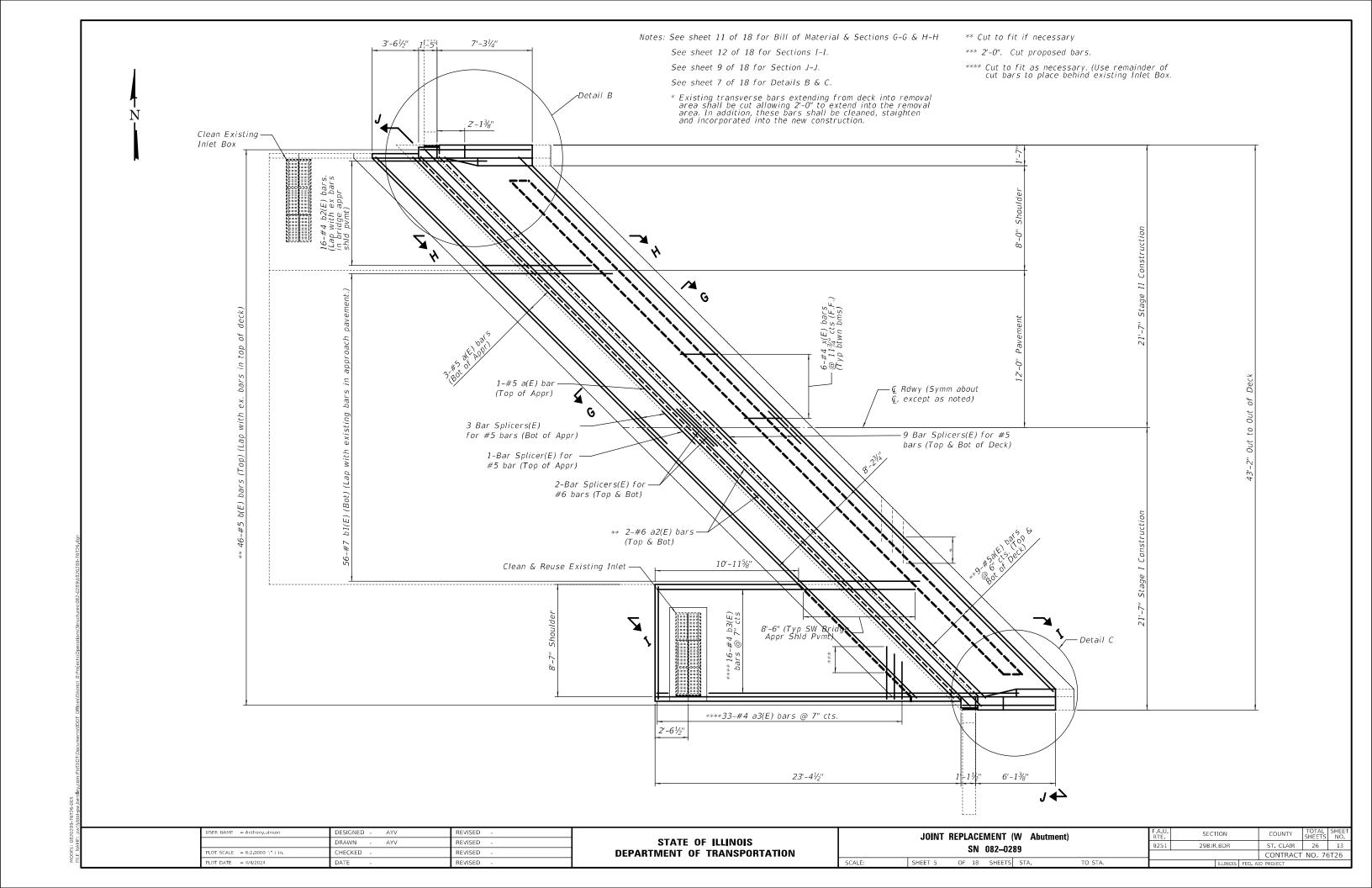


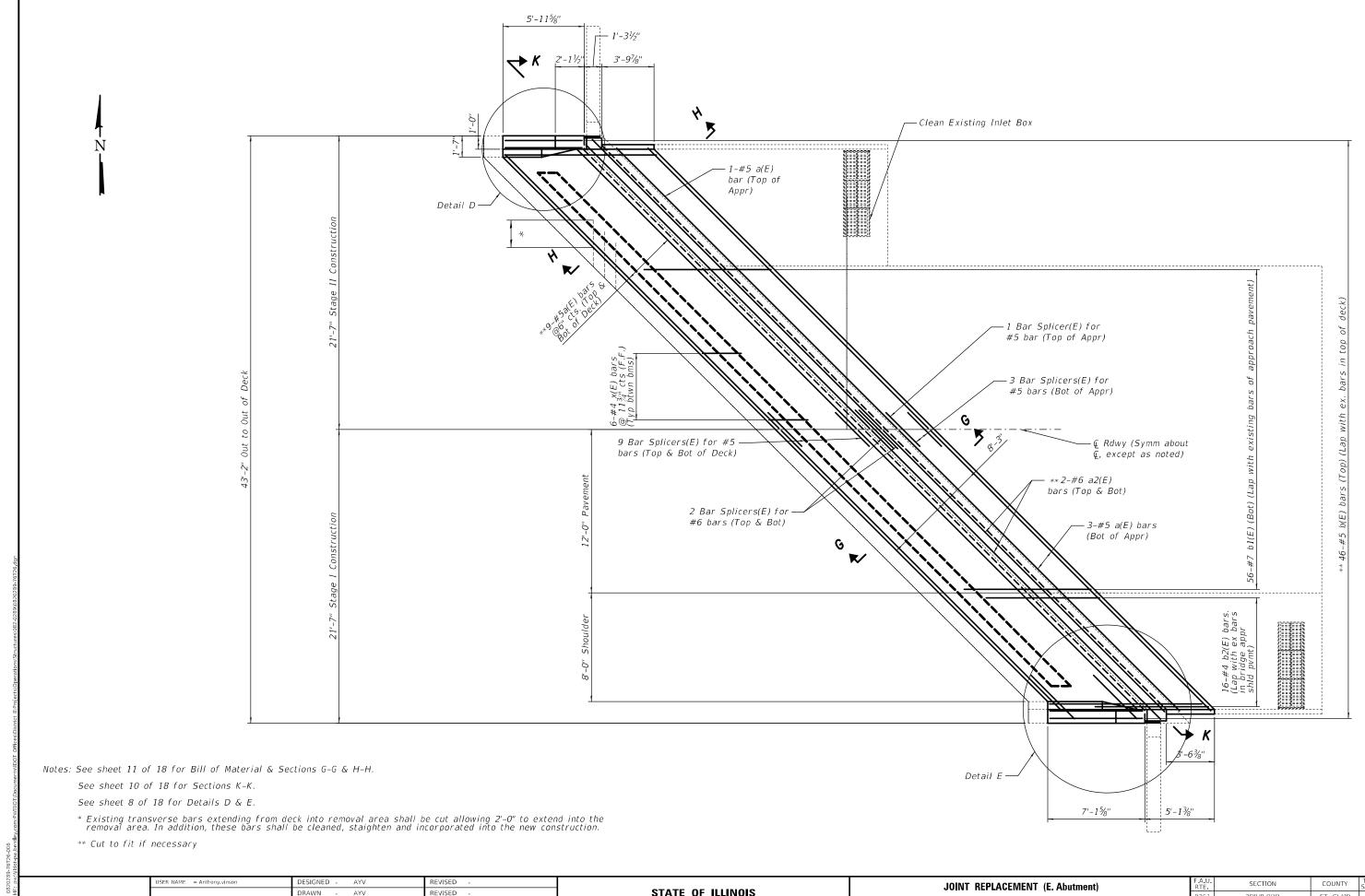
USER NAME = anthony.vinson	DESIGNED - AYV	REVISED -			D	DECK CROSS SI	CTION		F.A.U. RTF	SECTION	COUNTY	TOTAL SHEET
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PLOT DATE = 3/29/2024	DATE -	REVISED -		SCALE:	SHEET 2	OF 18 SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT	





SHEET 4 OF 18 SHEETS STA.





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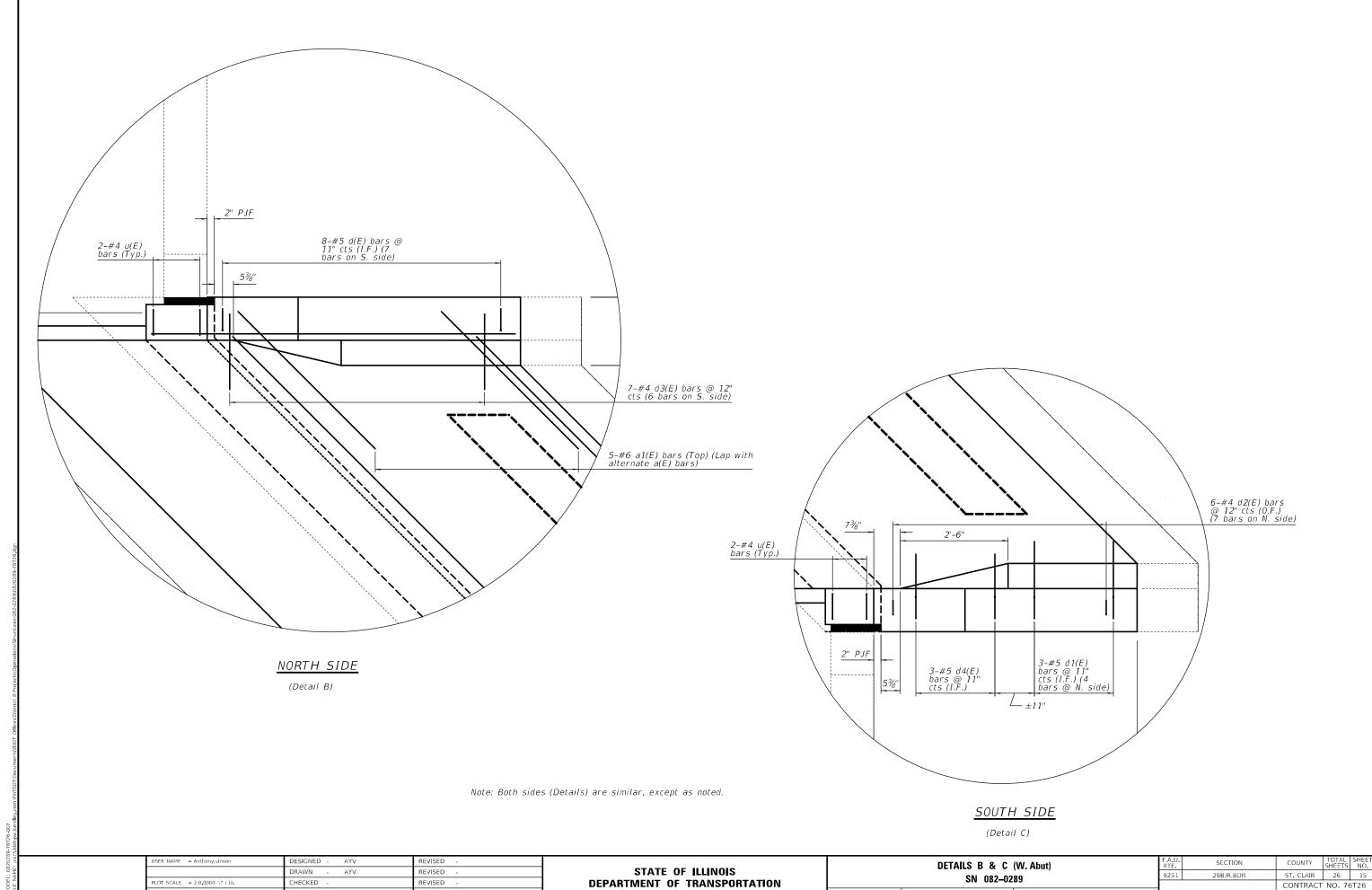
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SN 082-0289

ST. CLAIR 26 14 29BJR,BDR CONTRACT NO. 76T26

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

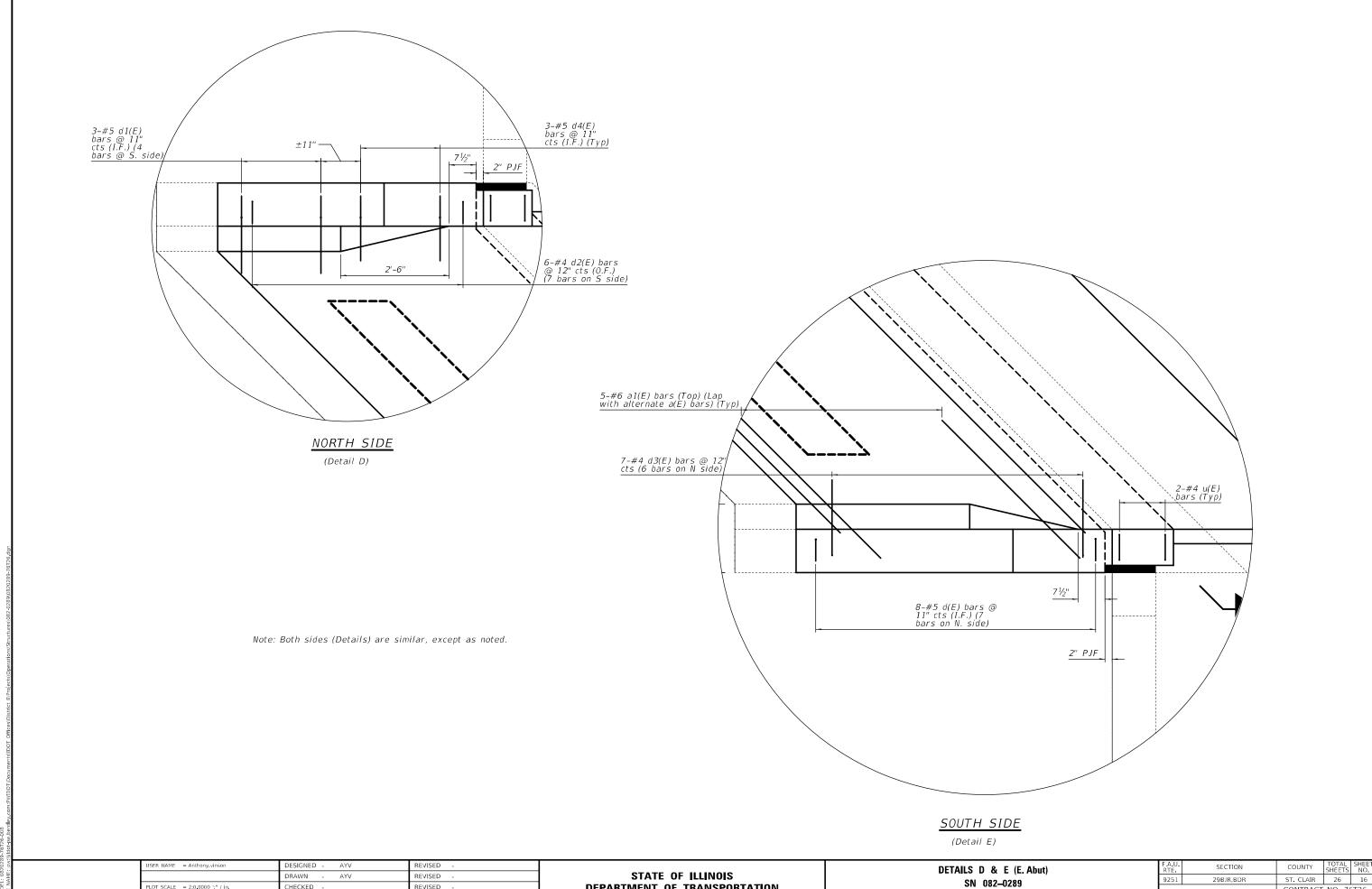


SHEET 7

OF 18 SHEETS STA.

TO STA.

DATE



DEPARTMENT OF TRANSPORTATION

SHEET 8 OF 18 SHEETS STA.

TO STA.

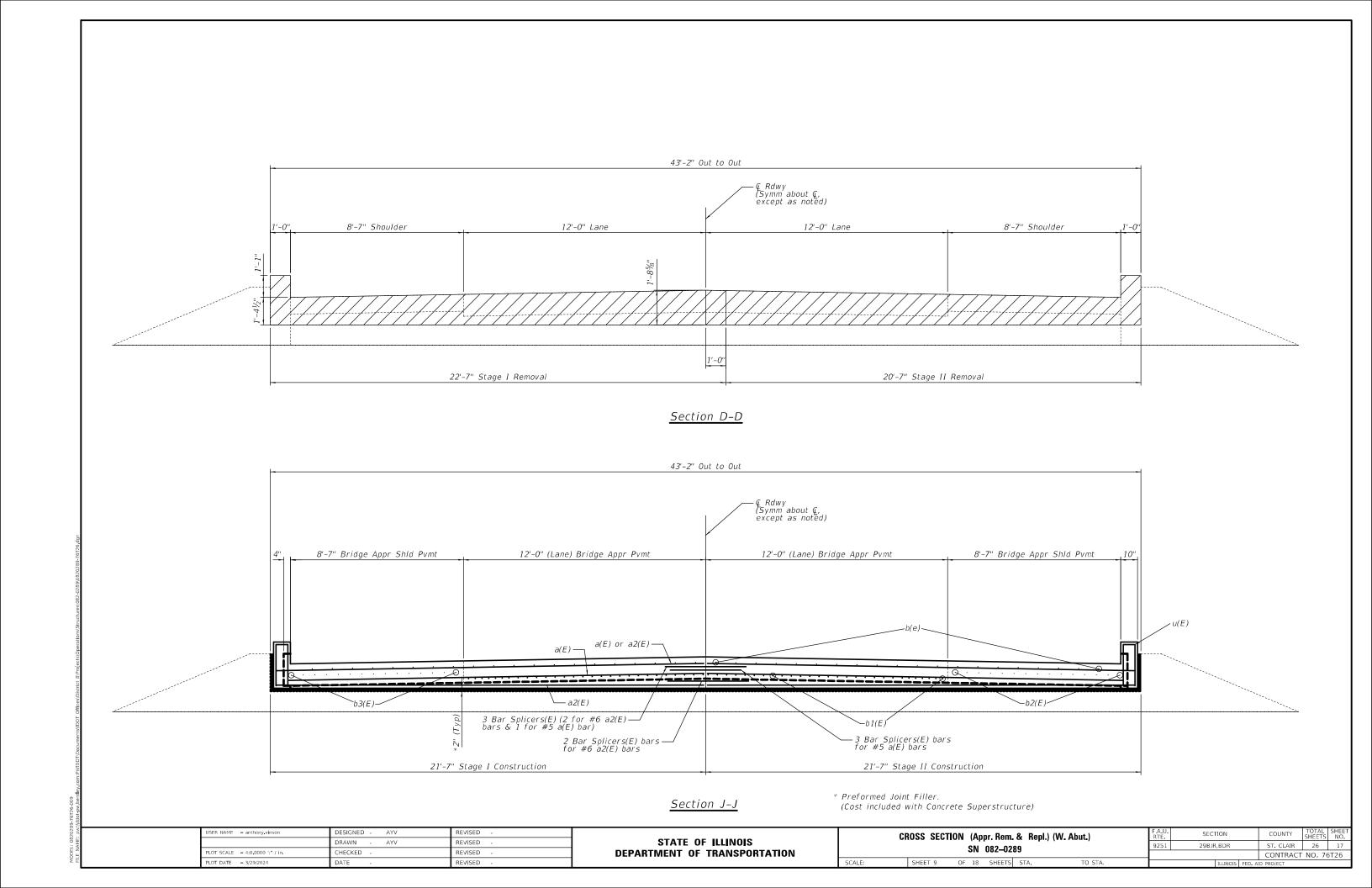
CONTRACT NO. 76T26

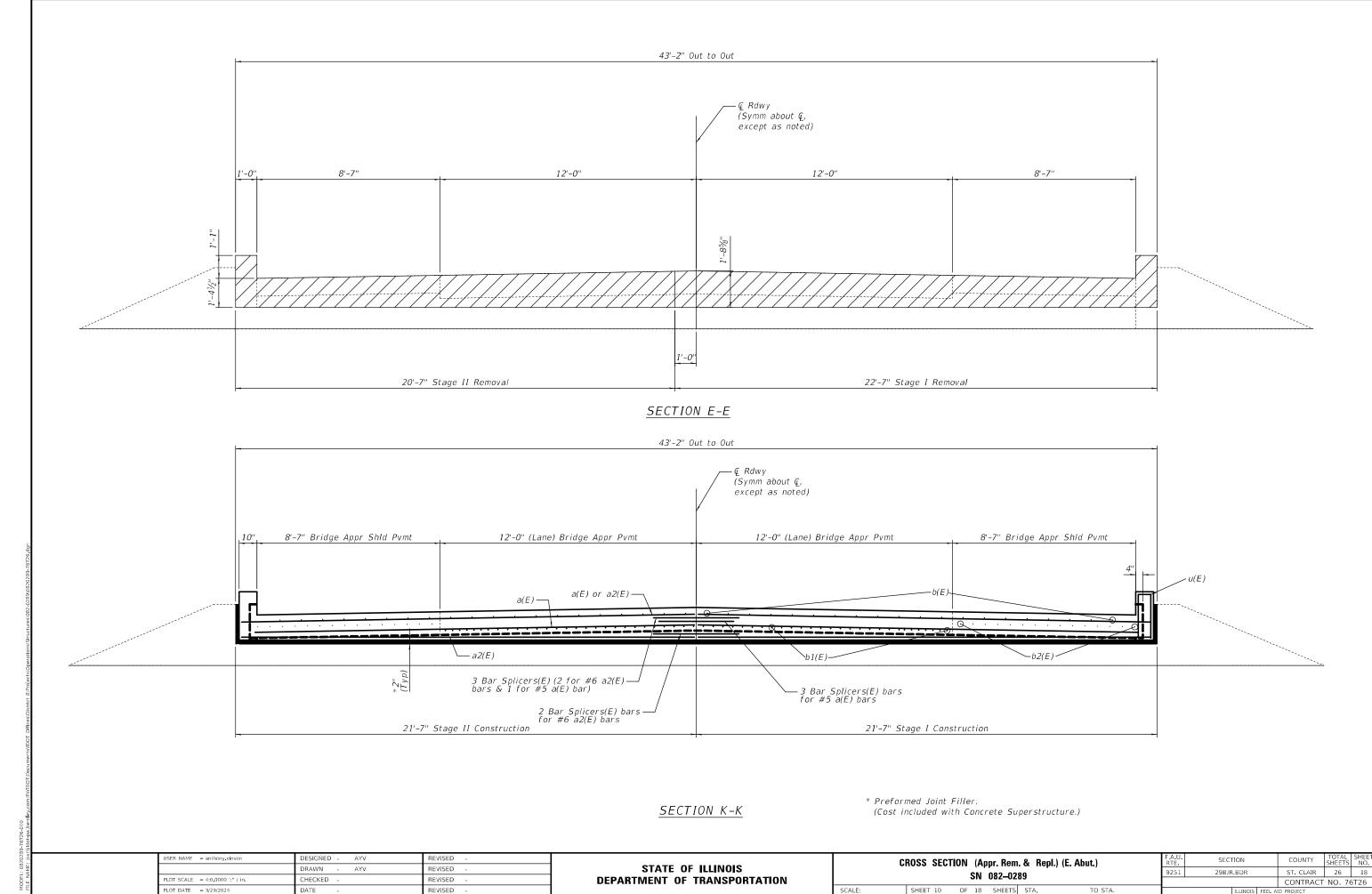
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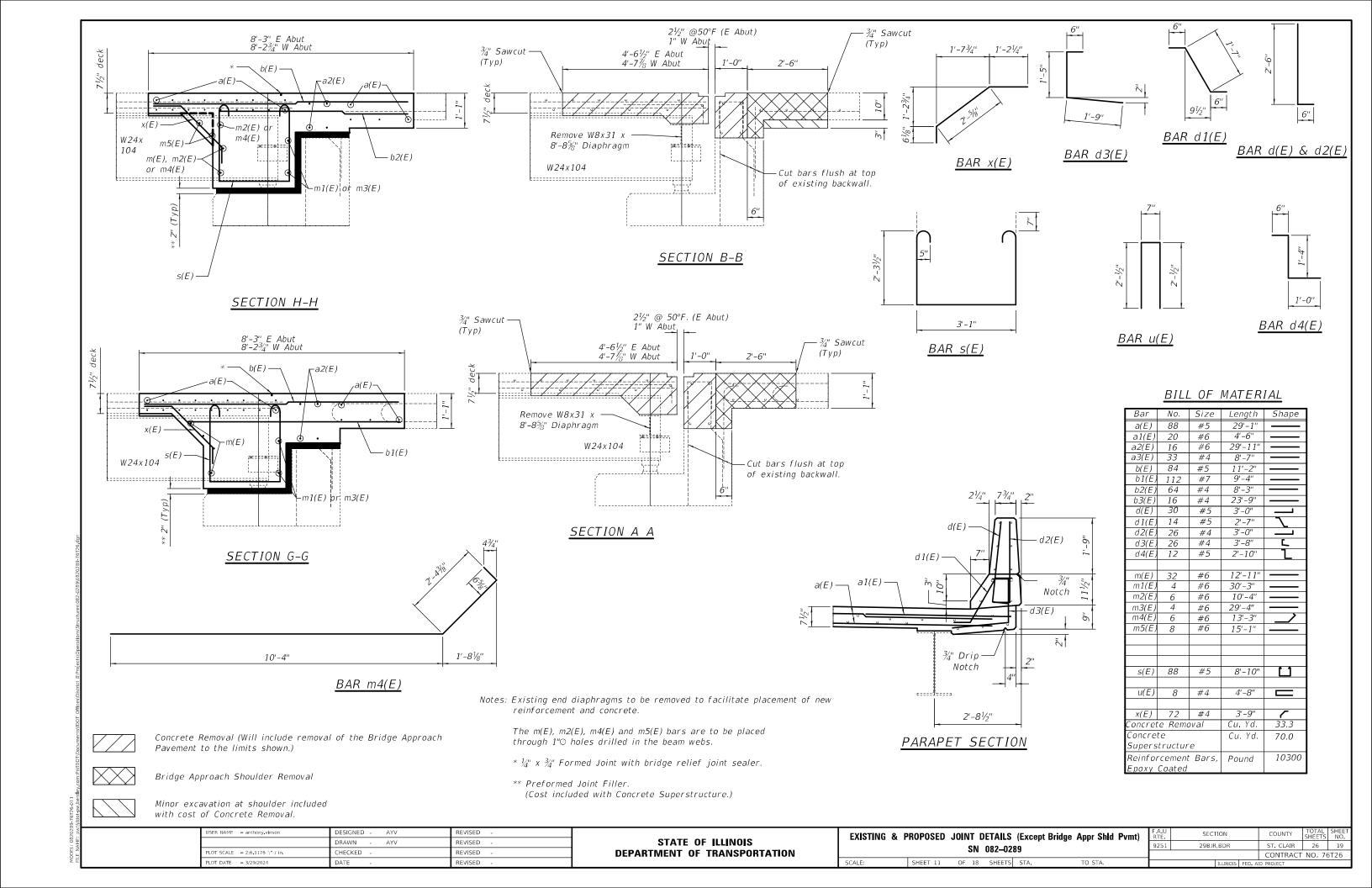
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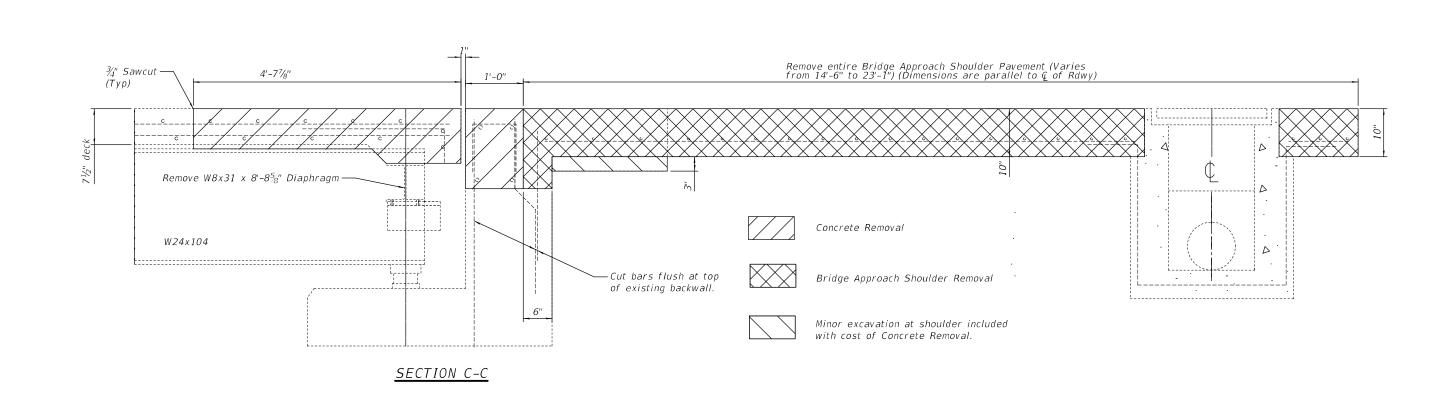
DATE

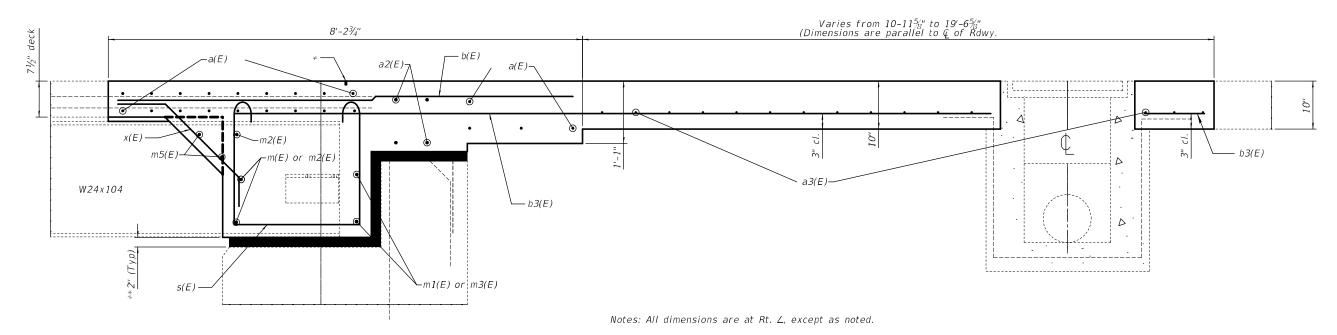
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SECTION I-I

See sheets 1, 3 & 17 of 18 for location to reuse existing Inlet Box.

Existing end diaphragms to be removed to facilitate placement of new reinforcement and concrete.

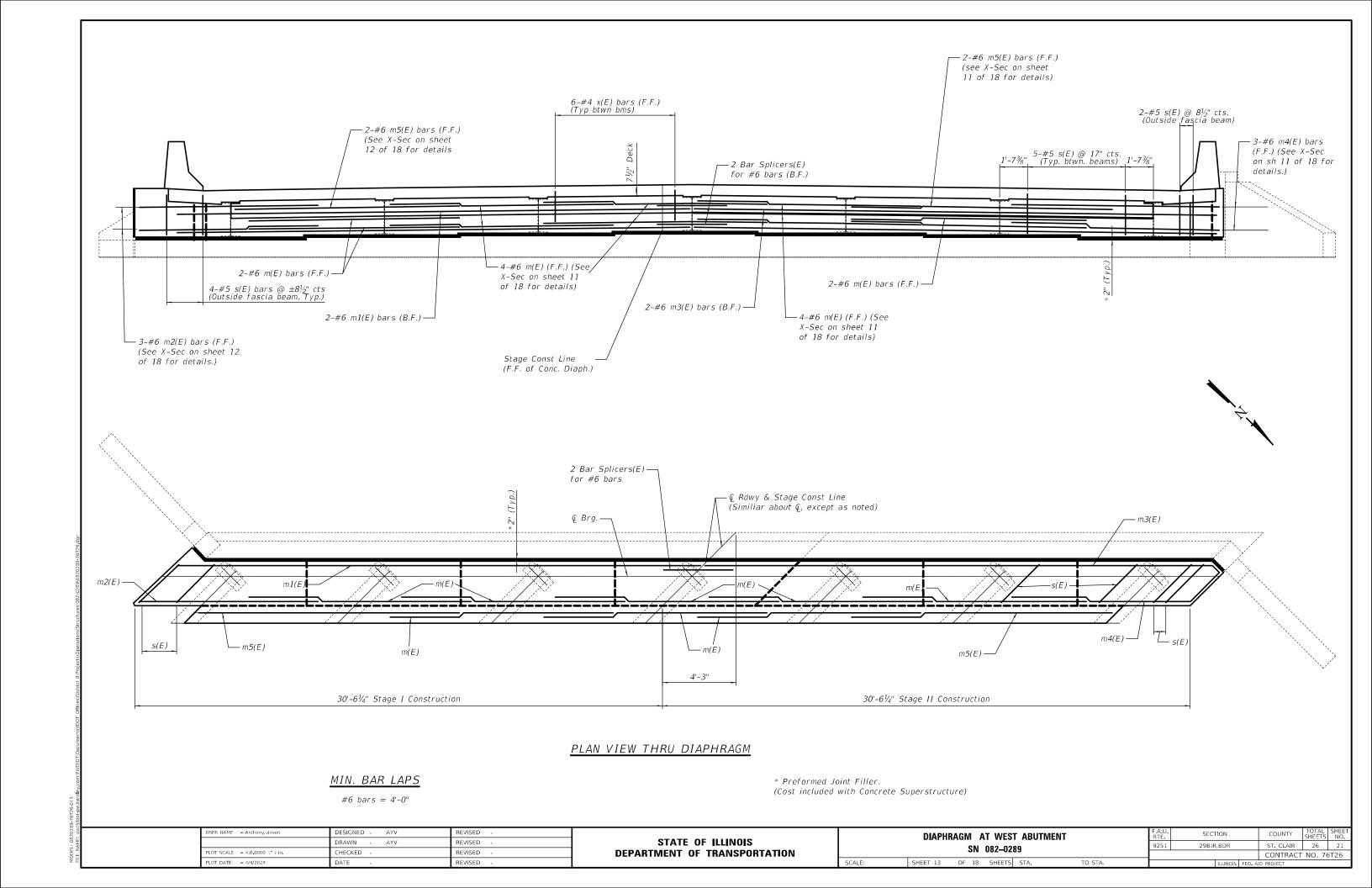
The m(E), m2(E), & m5(E) bars are to be placed through $1'' \odot$ holes drilled in the beam webs.

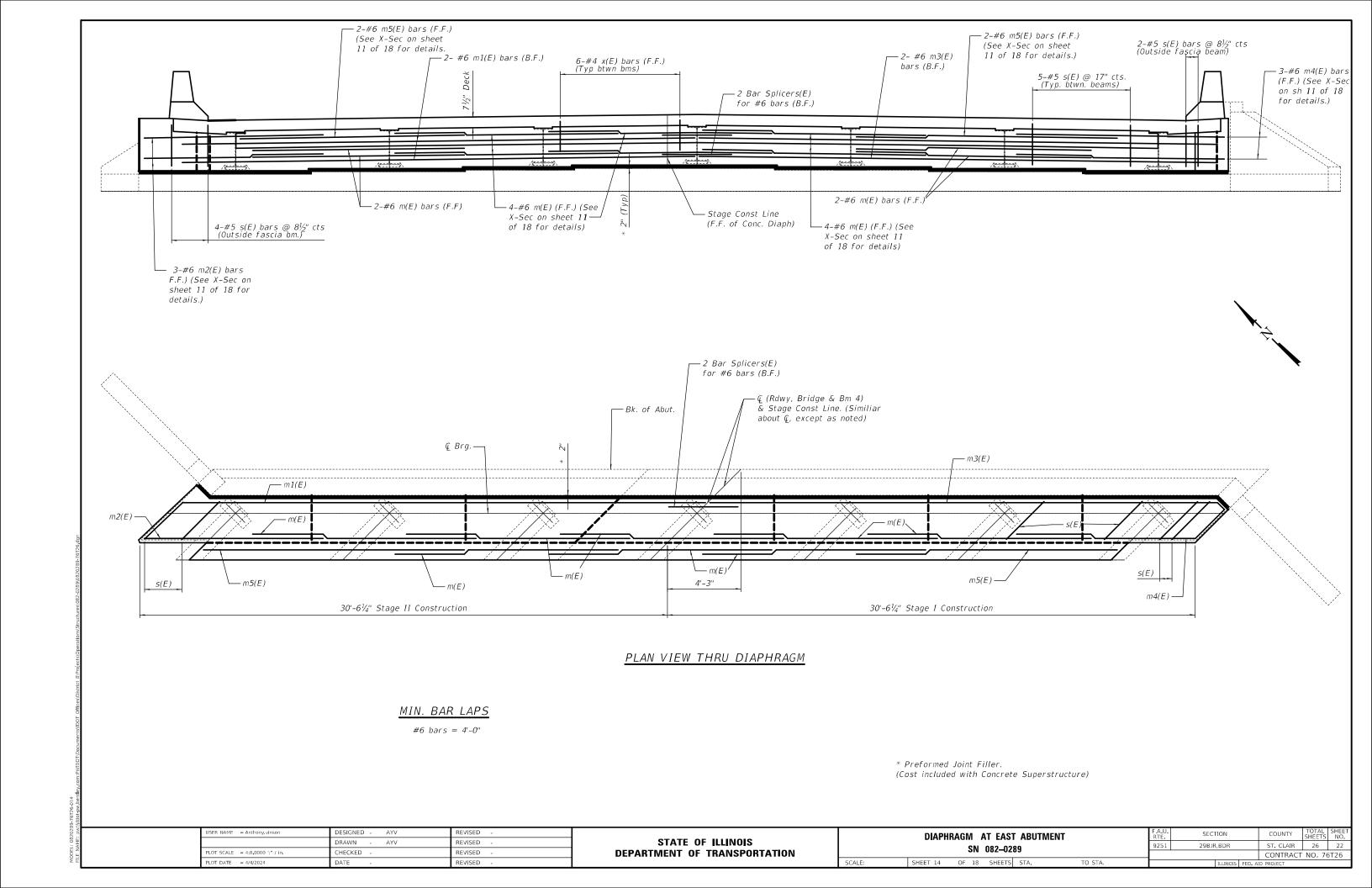
- * $\frac{1}{4}$ " x $\frac{3}{4}$ " Formed Joint with bridge relief joint sealer.
- ** Preformed Joint Filler
 (Cost included with Concrete Superstructure)

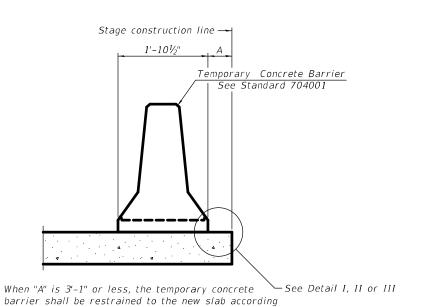
USER NAME = anthony.vinson	DESIGNED - AYV	REVISED -	
	DRAWN - AYV	REVISED -	
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PLOT DATE = 3/29/2024	DATE -	REVISED -	
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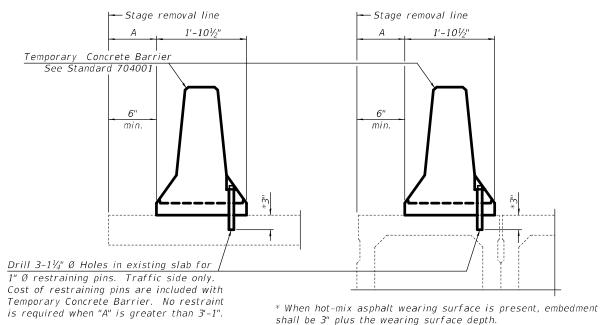
STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

EXISTING & PROPOSED BRIDGE APPROACH SHOULDER PAVEMENT L					F.A.U. RTE. SECTION					SHEET NO.		
SN 082-0289				9251 29BJR, BDR			ST CLAIR	26	20			
		JI	002-02	03						CONTRACT	NO. 76	5T26
SCALE:	SHEET 12	OF 1	3 SHEETS	STA.	TO	STA.		ILLINOIS	FED. AI	D PROJECT		









1x8 UNC US Std. 11/16" I.D. x 21/2" O.D. x approx. 8 gauge thick washer 1" Ø pin -RESTRAINING PIN

NEW SLAB OR NEW DECK BEAM

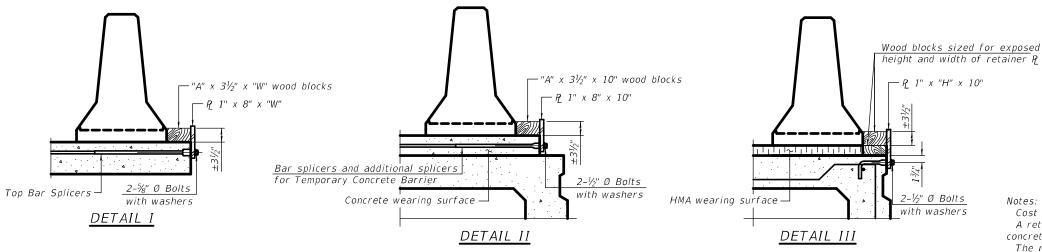
to Detail I, II or III. No restraint is required

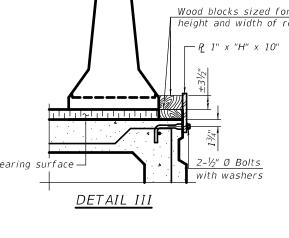
when "A" is greater than 3'-1".

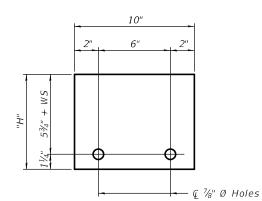
EXISTING SLAB

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM







Detail I Detail II 2" Top bars Spa., 2" Detail I Detail II — Ç ¾" Ø Holes

STEEL RETAINER P 1" x 8" x "W"

(Detail I and II)

STEEL RETAINER P 1" x "H" x 10" (Detail III)

concrete barrier.

Notes:

SHEET 1

stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam. When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate Q of each temporary

The retainer plate shall not be removed until the concrete on the adjacent

BAR SPLICER FOR #4 BAR - DETAIL III

and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated 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, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level Railing Weight (plf)

> SER NAME = anthony.vinson DESIGNED - AYV DRAWN -AYV HECKED LOT DATE = 3/29/2024

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TEMPORARY C	ONCRETE BARF	RIER	F.A.U. SECTION COUNTY TOTAL SHEETS 9251 29BJR,BDR ST. CLAIR 26 CONTRACT NO. 76					
STRUCTURE NO. 082-0289		1	9251	29BJF	R,BDR		ST. CLAIR	26
3111001011	L 110. 002-0203	'					CONTRACT	NO. 76
SHEET 15 OF 18	SHEETS STA	TO STA			TELIMOTE	EED A	D BROJECT	

R-27

10-12-2021

REVISED REVISED REVISED

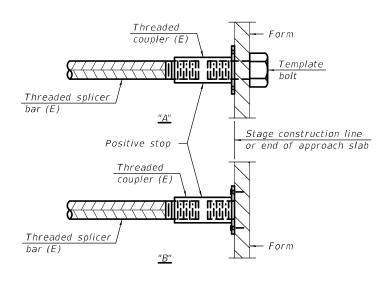
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

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 Iap length
Abutments	#5	44	3'-6"
Abutments	#6	12	4'-0"

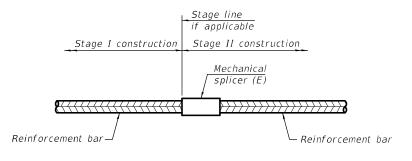


INSTALLATION AND SETTING METHODS

"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				

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

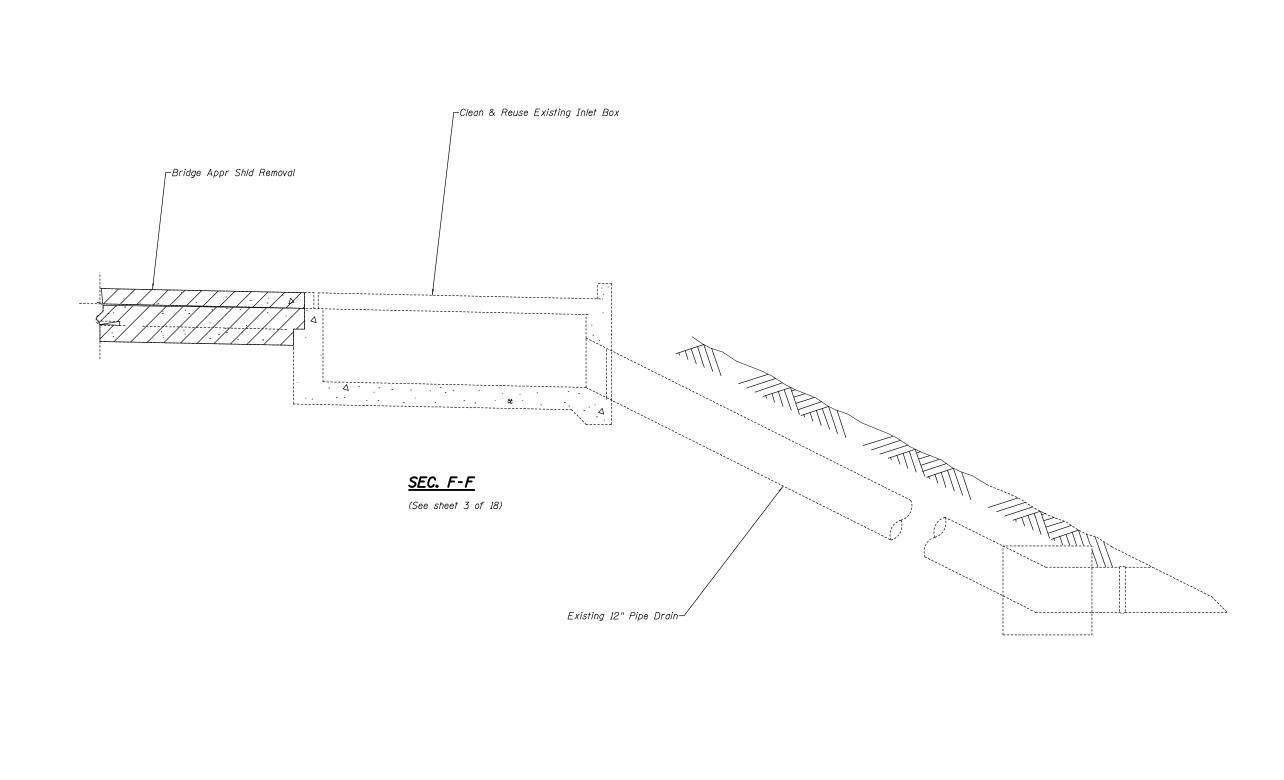
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PLOT DATE = 3/29/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 082-0289									
:	SHEET 16	OF 1	.8 SI	HEETS	STA.	TO	STA.		

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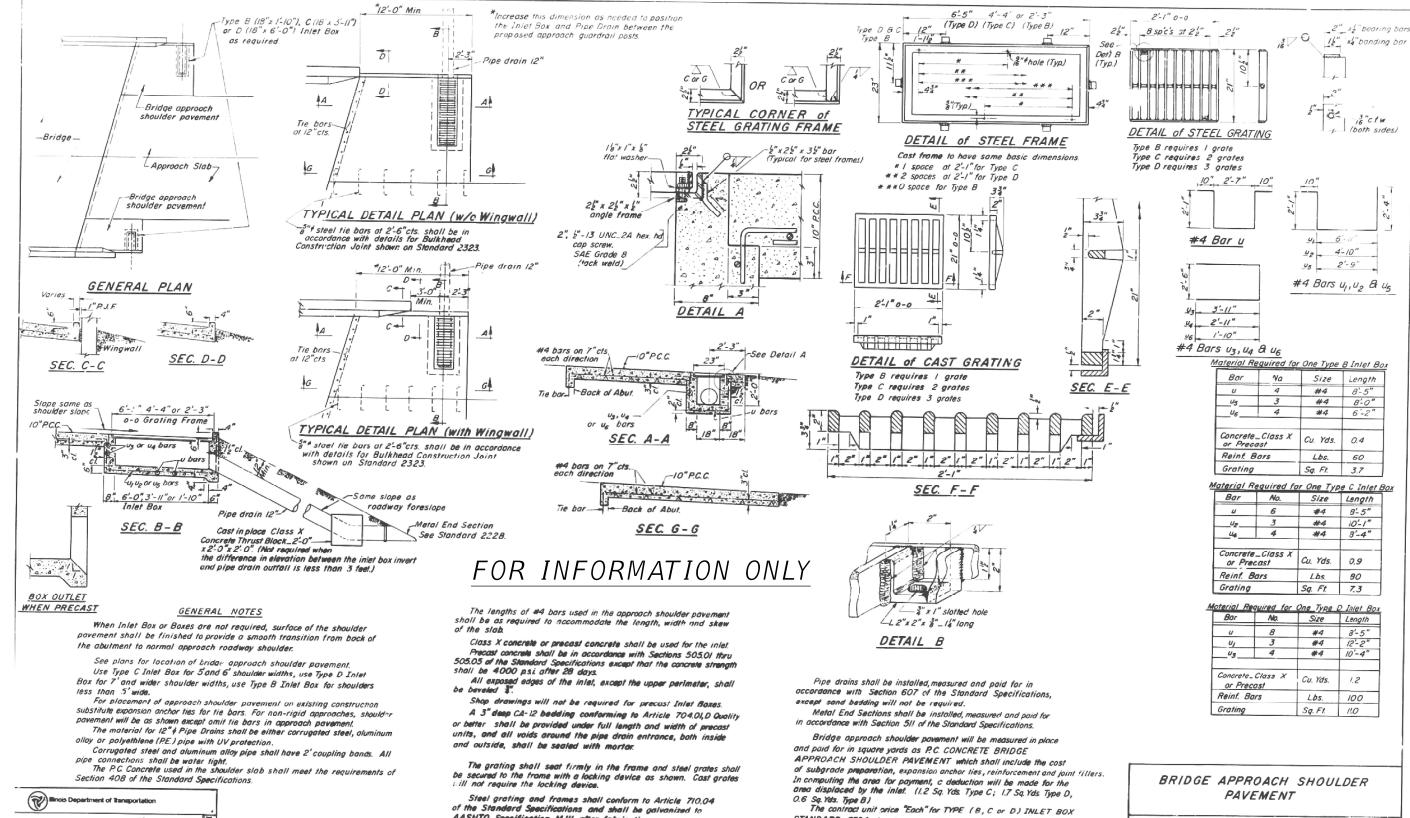


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	DRAWN - AYV	REVISED -
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PLOT DATE = 3/29/2024	DATE -	REVISED -

STATE OF ILLINOIS							
DEPARTMENT OF	TRANSPORTATION						

SW BRIDGE APPROACH SHOULDER REMOVAL DETAIL						F.A.U. RTE			COUNTY	TOTAL SHEETS	SHEET NO.		
						9251	29BJR,BDR		ST CLAIR	26	25		
314 002-0203											CONTRACT	NO. 76	5T26
	SHEET 17	OF	18	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT					

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AASHTO Specification MIII after fabrication

Cast grating and frames shall conform to Article 710.17 of the Standard Specifications. Cast grating and frames shall not be galvanized.

STANDARD 2324, in place, shall include the frame and grating, class X or precast concrete, reinforcement hars, excavation, bedding when required, and compacted backfill.

The contract unit price "Each" for CONCRETE THRUST BLOCKS, in place, shall include excavation and compacted backfilling.

STANDARD 2324 - 6

SER NAME = anthony, vinsor AYV DESIGNED -REVISED DRAWN AYV REVISED LOT SCALE = 0:2.0000 ':" / in. HECKED REVISED REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** FOR INFORMATION ONLY - EX BRIDGE APPR SHLD PVMT SN 082-0289 SHEET 18 OF 18 SHEETS STA

SECTION COUNTY ST CLAIR 9251 29BJR.BDR 26 26 CONTRACT NO. 76T26