STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

D-98-009-19

2980R-BIR-1

ST. CLAIR 16 1

RUNOIS CONTRACT NO. 76M04



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS: - -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

2018 ADT = 4000 (ACTUAL) 2019 ADT = 4050 (ESTIMATED)2039 ADT = 4600 (ESTIMATED)

PROPOSED HIGHWAY PLANS

FAU ROUTE 9189A (BOND AVE.) SECTION 29BDR-BJR-1 **BRIDGE & JOINT REPAIR - CM** ST. CLAIR COUNTY

R 9 W

C-98-012-19

R 10 W

PROJECT LOCATION:

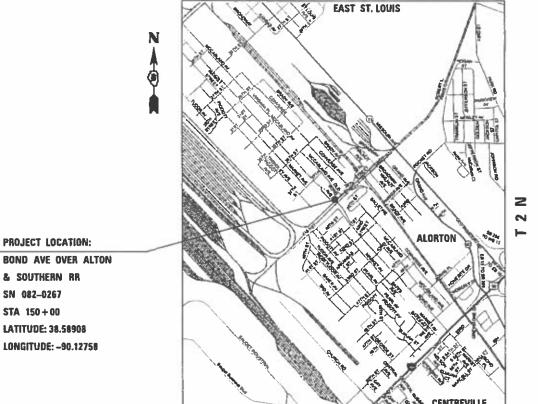
& SOUTHERN RR

LATITUDE: 38.58908

LONGITUDE: -90.12758

SN 082-0267

STA 150+00



NOT TO SCALE

GROSS LENGTH = 275.08 FT. = 0.052 MILE NET LENGTH = 275.08 FT. = 0.052 MILE

SU = 3.5% MU = 3.3%

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

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

PROJECT ENGINEER HERVE GELIN 618-346-3179 PROJECT MANAGER BILLIE OWEN 618-346-3209

CONTRACT NO. 76M04

0

INDEX OF SHEETS

- COVER SHEET
- INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
- 3-5 SUMMARY OF QUANTITIES
- TYPICAL SECTION
- SCHEDULES
- 8-16 BRIDGE DETAILS

HIGHWAY STANDARDS

000001-07

001001-02

001006

701006-05 701311-03

701801-06

701901-08

780001-05

B.L.R. 21-9

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (GAS & ELECTRIC)	Х	Х
*AT&T ILLINOIS (COMMUNICATIONS)	Χ	X
*BUCKEYE PARTNERS L.P WOOD RIVER PIPELINE (PIPELINE)		X
*COMMONFIELDS OF CAHOKIA PUBLIC WATER DISTRICT (WATER & SANITARY SEWER)		X
*ENABLE MIDSTREAM PARTNERS		Х
*ILLINOIS AMERICAN WATER COMPANY (WATER)		X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING SHOWN IN THE PLAN SHEETS WAS CREATED USING MICROFILM. IT SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF
- 3. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 4. 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.
- 5. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE
AC/PG	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70
MIX COMPOSITION (Gradation)	IL 9.5
FRICTION AGG	MIXTURE "D"
QUALITY MGMT PROGRAM	QC/QA

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

COMMITMENTS

NO TREE CLEARING FROM APRIL 1ST TO SEPTEMBER 30TH OF ANY YEAR

PERTINENT INFORMATION

THE FOLLOWING SHALL BE NOTIFIED OF THE ROAD CLOSURE TWO WEEKS PRIOR TO CLOSURE:

- EAST ST. LOUIS SCHOOL DISTRICT: NORQUISE COOPER 618-646-3051
- FIRST STUDENT 618-332-3704

USER NAME = leej	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/7/2018	DATE -	REVISED -	

SCALE:

INDEX OF	SHEETS	, HIGHW	AY STAN	DARDS,	F.A.U. RTE	S
GENER	AL NOTE	ያ ዴ ሮበ	ММІТМЕ	NTS	9189A	29E
GLIVEI	AL NOIL	.5 & 00	, 1411411 1 141E	N13	_	
SHEET 1	OF 1	SHEETS	STA.	TO STA.		

CONSTR. CODE 100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 082-0267	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	409	409	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQYD	200	200	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	72	72	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	206	206	
44000600	SIDEWALK REMOVAL	SQFT	216	216	
50102400	CONCRETE REMOVAL	CUYD	13.4	13.4	
50300100	FLOOR DRAINS	EACH	16	16	
50300255	CONCRETE SUPERSTRUCTURE	CUYD	16.8	16.8	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3050	3050	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3180	3180	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	79	79	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQYD	644	644	
58700300	CONCRETE SEALER	SQFT	444	444	
67100100	MOBILIZATION	LSUM	1	1	

	0
	Noolil
	CONTRIBUTED
MODEL: Default	CHE MANGE SHALLS

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2018	DATE	REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CHAMADA DV OF CHANTITIES								SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES							9189A	89A 29BDR-BJR-1			ST. CLAIR	16	3
											CONTRACT	NO. 76	6M04
SCALE:	SHEET 1	OF	3	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT					

CONSTR. CODE 100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 082-0267
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	28	28
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQFT	9.3	9.3
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5	5
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQFT	347	347
X2010507	CLEARING, SPECIAL	ACRE	0.1	0.1
X2700006	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	1041	1041
X5870015	BRIDGE DECK CONCRETE SEALER	SQFT	2774	2774
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1041	1041
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	2830	2830
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQFT	9	9
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQYD	5	5

★ SPECIALTY ITEM

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				25.011			F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
	3	SUMIM	AKY	OF QU	ANTITIES		9189A	9189A 29BDR-BJR-1 ST. CLAIR		ST. CLAIR	16	4	
											CONTRACT	NO. 76	5M04
CALE:	SHEET 2	OF	3	SHEETS	STA.	TO STA.		ILLINOIS FED AI		ID PROJECT			

CONSTR. CODE 100% STATE

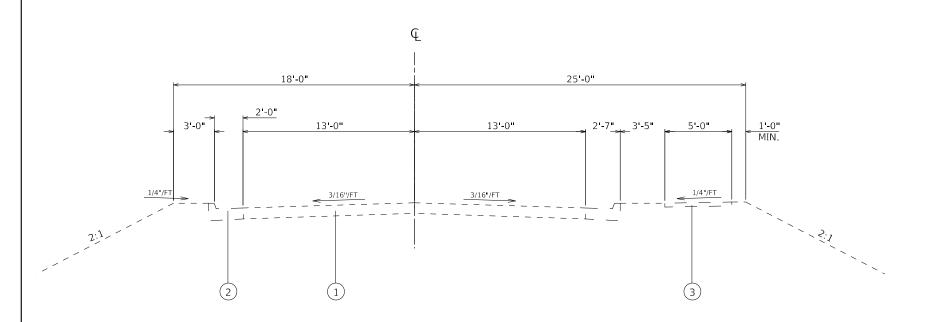
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 082-0267
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQYD	10	10
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	267	267

	OTOTIVIONO
10DEL: Defau	THE MAME AN

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2018	DATE -	REVISED -

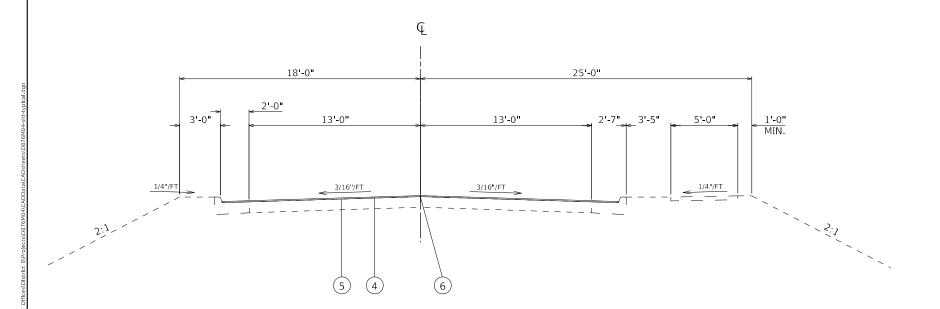
STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

							F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES							9189A	29BDR-BJR-1	ST. CLAIR	16	5
									CONTRAC	T NO. 7	6M04
SCALE:	SHEET 3	OF	3	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION

APPROACH PAVEMENT - STA. 147+96.71 TO STA. 148+96.71 BRIDGE SECTION (NOT SHOWN) - STA. 148+96.71 TO STA. 150+91.79 APPROACH PAVEMENT - STA. 150+91.79 TO STA. 151+91.79

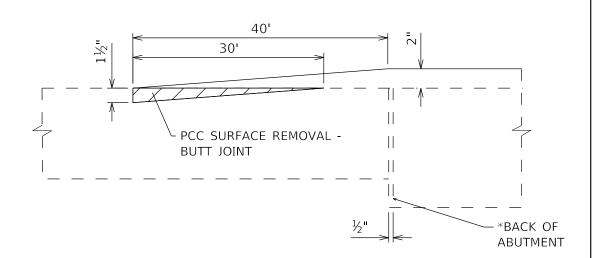


PROPOSED TYPICAL SECTION

STA. 148+56.71 TO STA. 148+96.71
BRIDGE SECTION (NOT SHOWN) - STA. 148+96.71 TO STA. 150+91.79
STA. 150+91.79 TO STA. 151+31.79

LEGEND

- 1) EXISTING REINFORCED P.C.C. PAVEMENT, 10"
- (2) EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (3) EXISTING PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (4) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- (5) PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- (6) PROPOSED LONGITUDINAL JOINT SEALANT



BUTT JOINT DETAIL

*SEE SECTION B-B
ON THE
ABUTMENT DETAILS SHEET
FOR ADDITIONAL DETAILS

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION						SECT	rion		COUNTY	TOTAL SHEETS	SHEET NO.
	TYPIC	AL SEC	TION		9189A	29BDR	-BJR-1		ST. CLAIR	16	5
									CONTRACT	NO. 76	5M04
 CUEET 1	05.1	CHEETC	CTA	TO CTA				_			

					P.A	VEMENT MARK	ING SCHEDULE					
STATION	то	STATION	LENGTH	MARKING REMOVAL PREFORMED PLASTIC PAVEMENT MARKING, TYPE D RECESSED		GROOVING FOR RECESSED PAVEMENT MARKING 5"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL				
					SOLID YELLOW	SOLID WHITE	SKIP-DASH YELLOW					
			FOOT	SQFT	FOOT	FOOT	FOOT	FOOT	FOOT	SQFT		
148+56.71	TO	148+96.71	40.00	43.33	40.00	80.00	10.00	130.00	4.00	1.33		
148+96.71	TO	150+91.79	195.08	260.11	390.16	390.16		780.32	20.00	6.67		
150+91.79	TO	151+31.79	40.00	43.33	40.00	80.00	10.00	130.00	4.00	1.33		
SU	SUBTOTAL TOTAL		JBTOTAL				470.16	550.16	20.00			
1			TOTAL 347				1041		1041	28	9.3	

		PAV	'EMENT IV	IARKING SCHEDULE	
STATION	то	STATION	LENGTH	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
			FOOT	EACH	EACH
148+56.71	TO	148+96.71	40.00	1.00	1.00
148+96.71	TO	150+91.79	195.08		3.00
150+91.79	OT	151+31.79	40.00	1.00	1.00
		-			
T	OTA	۱L		2	5

					RESURFACING	SCHEDULE		
STATION	то	STATION	LENGTH	WIDTH	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	LONGITUDINAL JOINT SEALANT
			FOOT	FOOT	SQYD	POUND	TON	FOOT
148+56.71	TO	148+96.71	40.00	30.00	100.00	60.00	13.07	40.00
149+01.21	TO	150+87.29	186.08	31.00		288.42	45.00	186.08
150+91.79	TO	151+31.79	40.00	30.00	100.00	60.00	13.07	40.00
TOTAL					200	409	72	267

MODEL: Default FILE NAME: pw:\\IL084EBIDI\\TE

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2018	DATE -	REVISED -

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

								F.A.U. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ı		SCHEDULES							29BDR-BJR-1		ST. CLAIR	16	6
ı											CONTRACT	NO. 76	5M04
	SCALE:	SHEET 1	OF	1	SHEETS	STA.	TO STA.	STA. ILLINOIS FED. AID PROJECT					

SHEET INDEX Existing Structure: 082-0267 was built in 1980 under contract 34470, FAU Route 9189 Sec 23VB. It is a 3 span continuous wide flange supported on pile bent abutments and pile supported multi-column piers. 1) General Plan and Elevation 2) Deck Section & Drain Details The deck ends, hactchblocks, and 1' of approach pavement shall be replaced with strip seal joints. 3) Abutment Elevation The deck shall be patched, and overlayed with waterproofing membrane system and hot-mix asphalt. 3) Abutment Details The road shall be closed to traffic and detoured. 4) Steel Details 5) Preformed Joint Strip Seal 7) Wingwall Pictures 8) For Information Only - West Abutment 9) For Information Only - East Abutment ELEVATION 194'-1" 2'-31/2" 2'-31/2" 57'-0" Span 1 75'-6" Span 2 57'-0" Span 3 c&g = curb & gutterPower line 43'-6" 32'-0' under span 3 Center Track Sta 150+00 2'-7" ... • $WB \ll \Box$ -Back of W. Abut Pier 1 Pier 2 -Back of E. Abut Sta 149+56.50 Sta 150+32 00 Sta 148+97.21 Sta 150+91.29 2'-7" 13'-0" Lane $EB \Longrightarrow$ 19'-11" 23'-3" , . 🗔 . 12 Remove and re-install bronze name plate Sidewalk (Cost included with "Concrete Removal") Replacement Sidewalk Structural Repair of Concrete Replacement Eliminate drain with 12"x18" Deck Slab Repair (Full Depth, Type 1). at base of Pier 1 south column (16 Locations) PLAN LVC = 700'Eliminate drain with 12"x18" Deck Slab Repair (Full Depth, Type I) and install 6"Ø floordrain (16 Locations) Sta 146+50 Elev 434.50 TOTAL BILL OF MATERIAL Sta Sta ITEM UNIT TOTAL +6.0% -6.0% HMA Surface Course, Mix "D", N70 Ton 45 Portland Cement Sidewalk, 5" Sq. Ft. 206 PROFILE GRADE Bridge DAVID CAP SN 082-0267 Sidewalk Removal 216 Sq. Ft. Concrete Removal Cu. Yd. 13.4 Floor Drains Each 16 16.8 Concrete Superstructure Cu. Yd. Furnishing and Erecting Structural Steel Pound 3050 Reinforcement Bars, Epoxy Coated Pound 3180 Preformed Joint Strip Seal Foot 79.0 Waterproofing Membrane System 644 Sq. Yd. **SPRING**FIELD Concrete Sealer Sq. Ft. 111 **ILLINO**(S Clearing, Special Acre 0.1 Bridge Deck Concrete Sealer Sq. Ft. 2774 Structural Steel Removal Pound 2830 Structural Repair of Concrete (Depth <= 5") Sq. Ft. 9 Deck Slab Repair (Full Depth, Type I) Sa. Yd. Expines W30/20 LOCATION SKETCH Deck Slab Repair (Partial) 10 Sq. Yd. DESIGNED - J. Uehle **EXAMINED** DATE - OCTOBER 30, 2018

REVISED

REVISED

DEPARTMENT OF

c&g

CHECKED -

DRAWN - J. Uehle

CHECKED - JOV

11/15/2018 11:29:01 AM

PASSED

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$, holes $\frac{13}{16}$, unless otherwise noted.

All structural steel shall be AASHTO M 270 Grade 36.

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

No field welding is permitted except as specified in the contract documents.

All reinforcement bars 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.

Cleaning and field painting of structural steel shall be done under a separate painting contract. Existing structural steel that will be in contact with new structural steel shall only be cleaned and painted prior to erection as required by the Special Provision for "Cleaning & Painting Contact Surface Areas of Existing Steel Structures"

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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".

The HMA quantities are shown for the bridge only. The quantity is calculated excluding an assumed $\frac{1}{2}$ " sand & $\frac{1}{4}$ " waterproofing membrane, for an HMA thickness of $1\frac{1}{4}$ " thickness.

The joints shall be adjusted according to Article 520.04 of the Standard Specs.

The quantity for "Bridge Deck Concrete Sealer" is for the top and inside parapet surfaces, wingwalls, sidewalks, and all new concrete.

The quantity for "Concrete Sealer" is for the 2' vertical surface of backwalls, 2'-9" wide abutment seats, and 1' vertical surface of front of abutment caps. The sealer in these areas shall be a plural component.

The quantity for "Deck Slab Repair (Partial)" is estimated. The location and izes of repairs are to be determined by the Engineer in the field.

The cost for removal of the drains and drain brackets is included with "Deck Slab Repair (Full Depth, Type I).

The quantity for "Clearing, Special" is for removal of three 20' x 80' areas of brush along slopewalls on the SW, NW, and NE guadrants.

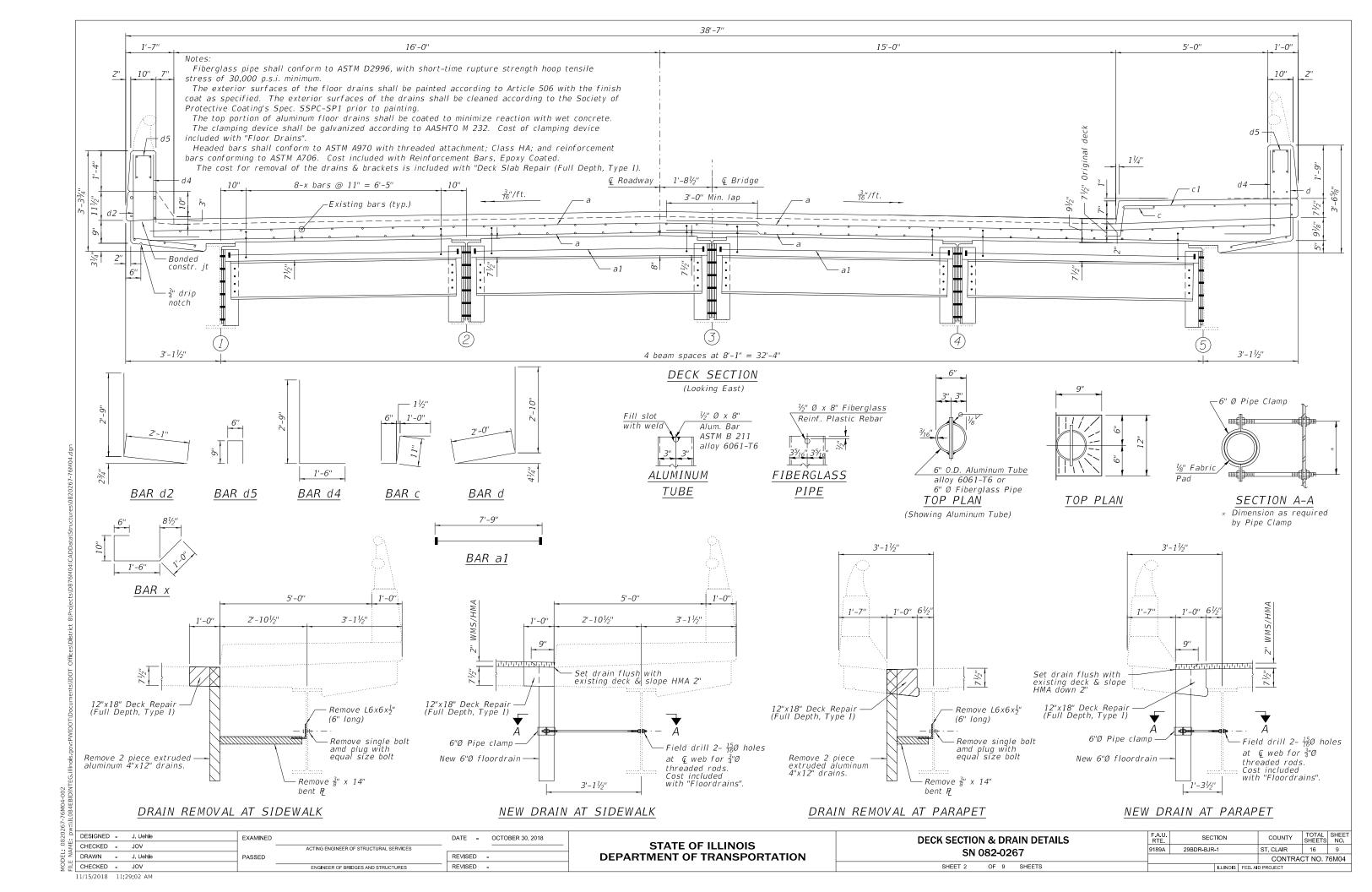
DESIGN STRESSES

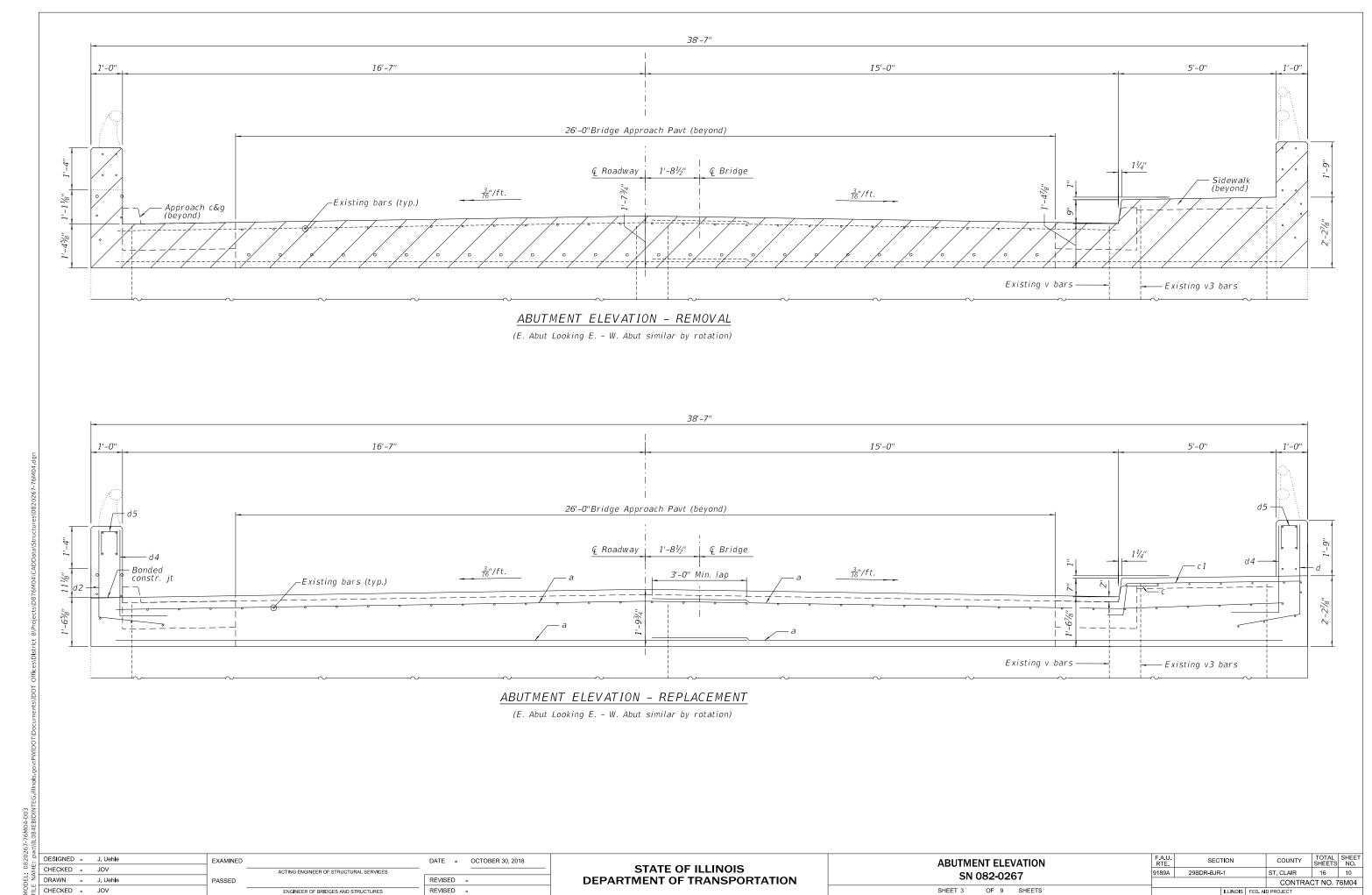
FIELD UNITS 4,000 psi

fy = 60,000 psi (Reinforcement) fy = 36,000 psi (M270 Grade 36)

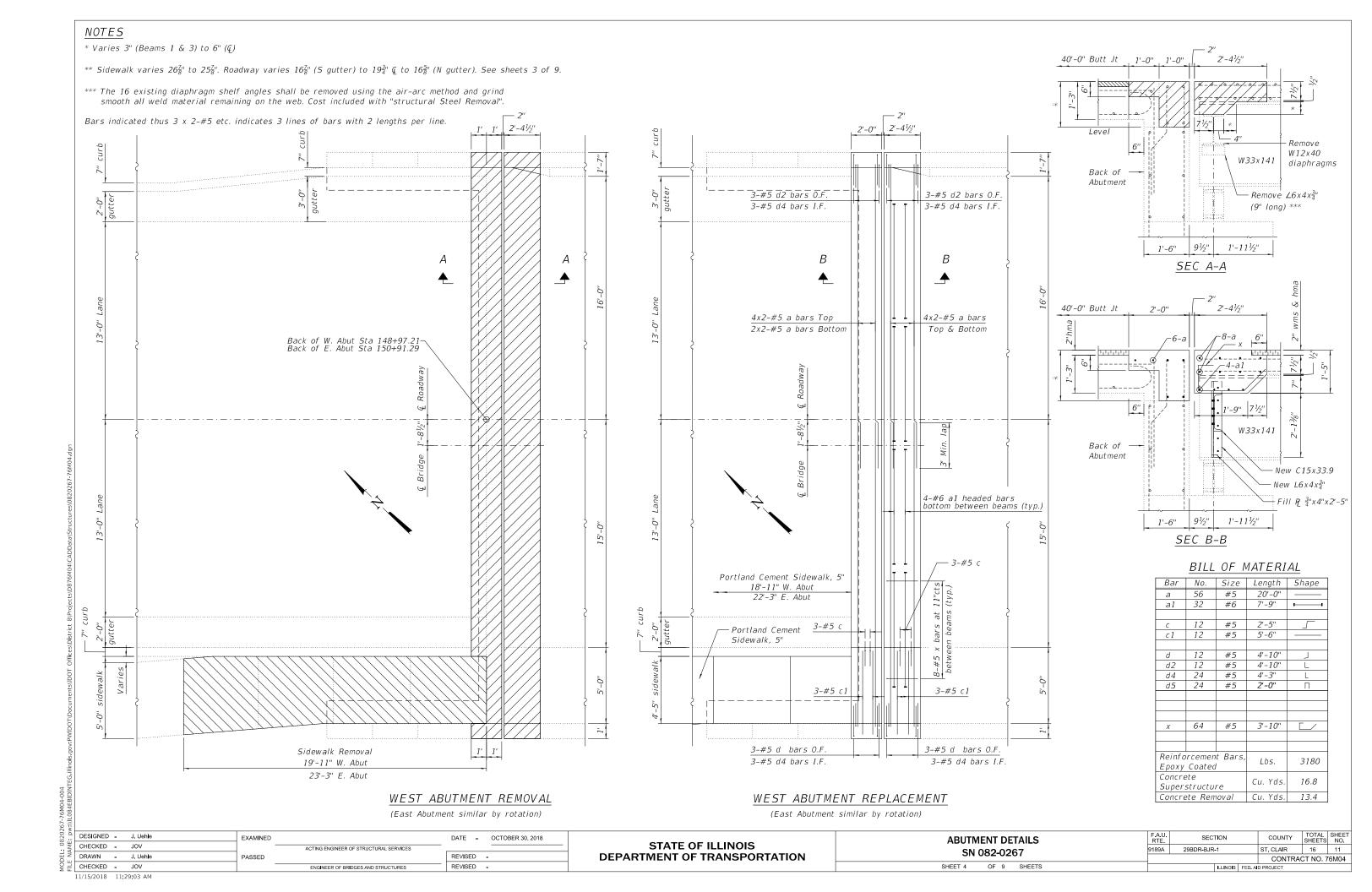
STATE OF ILLINOIS	GENERAL PLAN & ELEVATION SN 082-0267 (BOND AVE OVER A&S RR)	F.A RT 918
TMENT OF TRANSPORTATION	SHEET 1 OF 9 SHEETS	
	SHEEL I OF 9 SHEELS	

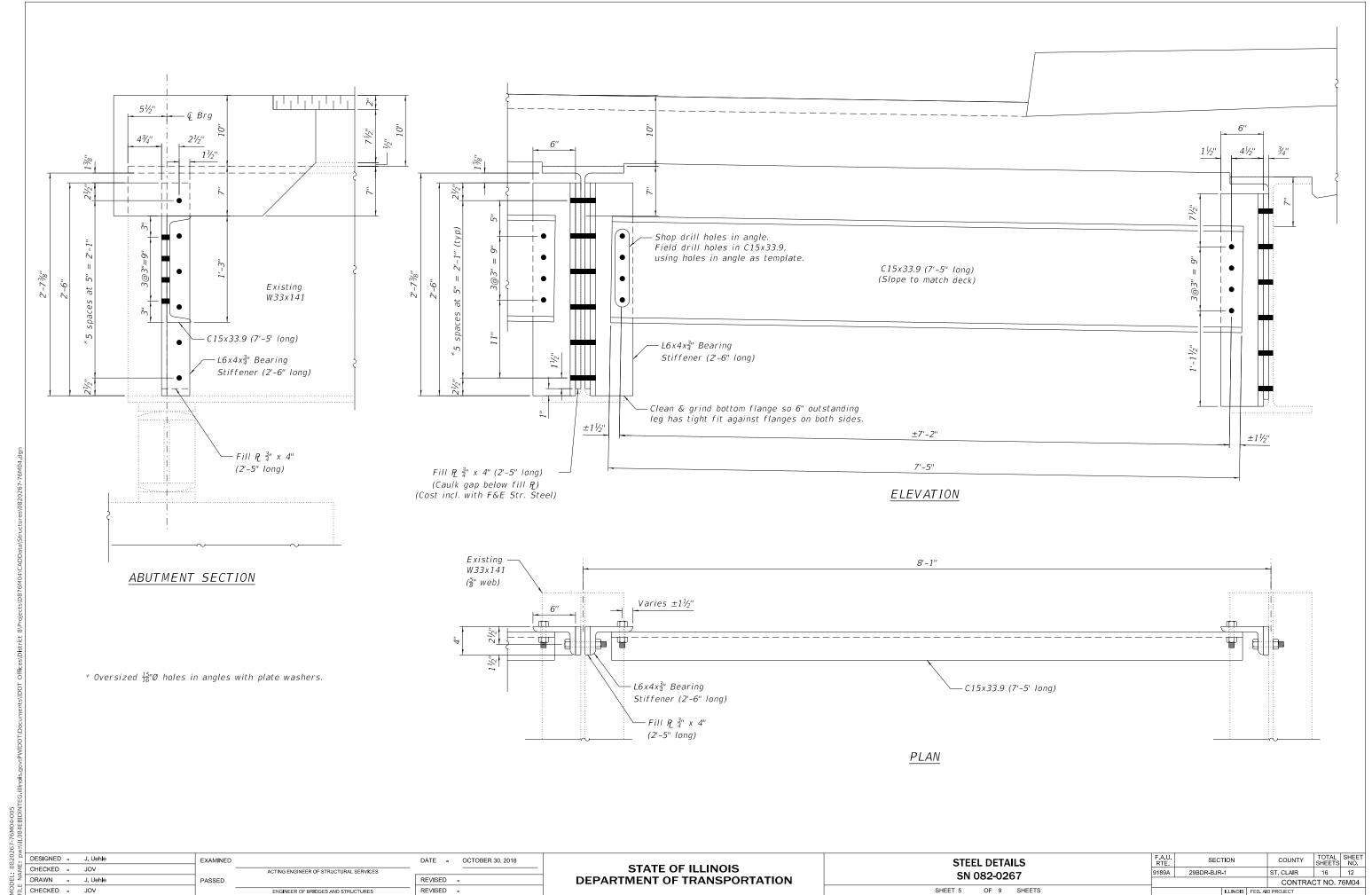
SECTION COUNTY ST CLAIR 89A 29BDR-BJR-1 16 8 CONTRACT NO. 76M04 ILLINOIS FED. AID PROJECT



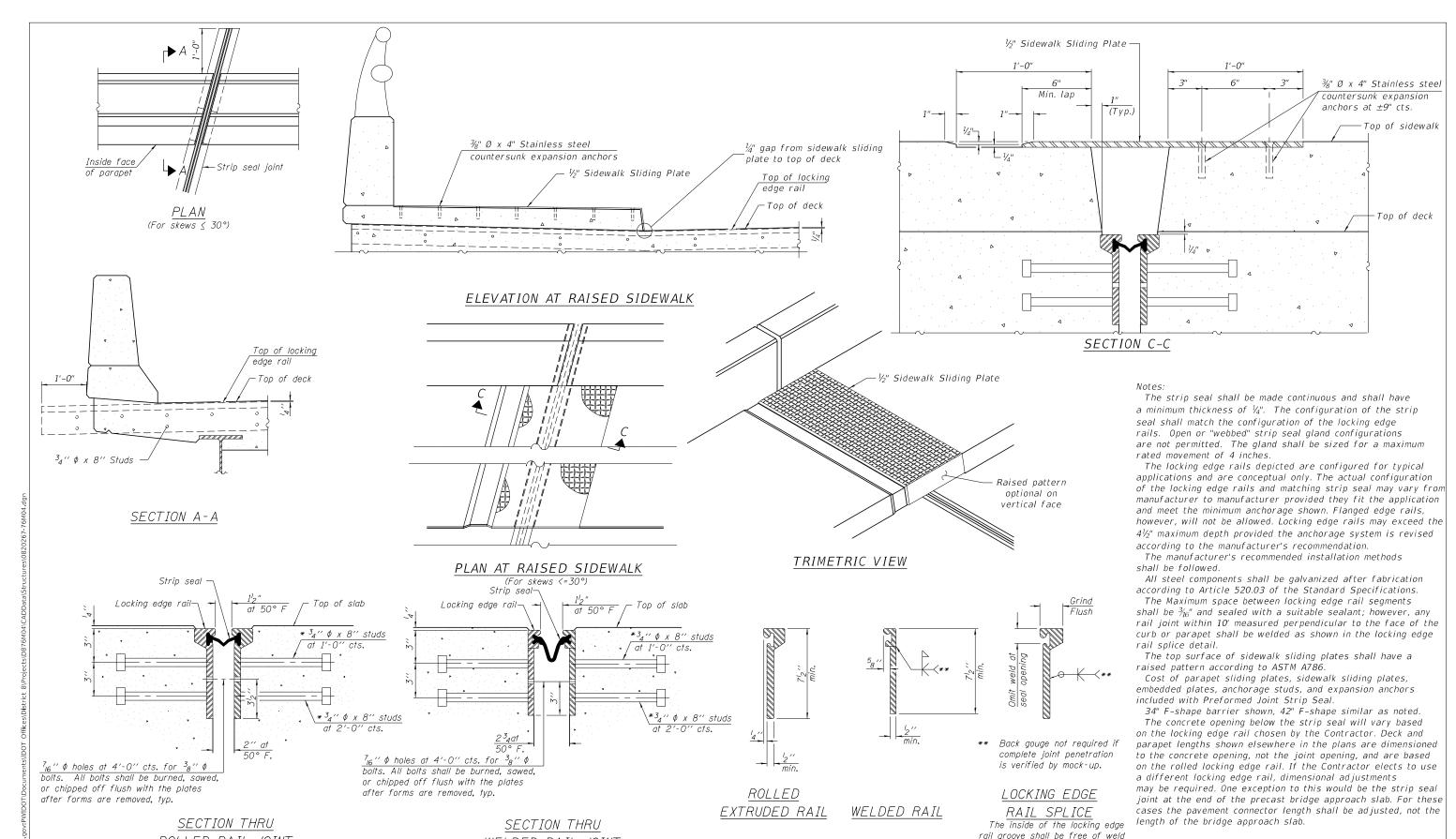


11/15/2018 11:29:03 AM





11/15/2018 11:29:04 AM



LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	79.0

DESIGNED - J. Uehle EXAMINED CHECKED - JOV

DRAWN - J. Uehle PASSED

EXAMINED ACTING ENGINEER OF STRUCTURAL SERVICES

REVISED - REVISED

* Granular or solid flux filled headed studs conforming to Article 1006.32

of the Std. Specs., automatically

end welded.

ROLLED RAIL JOINT

11/15/2018 12:06:48 PM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WELDED RAIL JOINT

PREFORMED JOINT STRIP SEAL SN 082-0267

Rolled rail shown, welded rail

residue.

similar.

| FAU. | SECTION | COUNTY | TOTAL | SHEET | NO. |
| 9189A | 29BDR-BJR-1 | ST. CLAIR | 16 | 13 |
| CONTRACT NO. 76M04



<u>WEST ABUTMENT</u> NORTH WINGWALL



EAST ABUTMENT NORTH WINGWALL

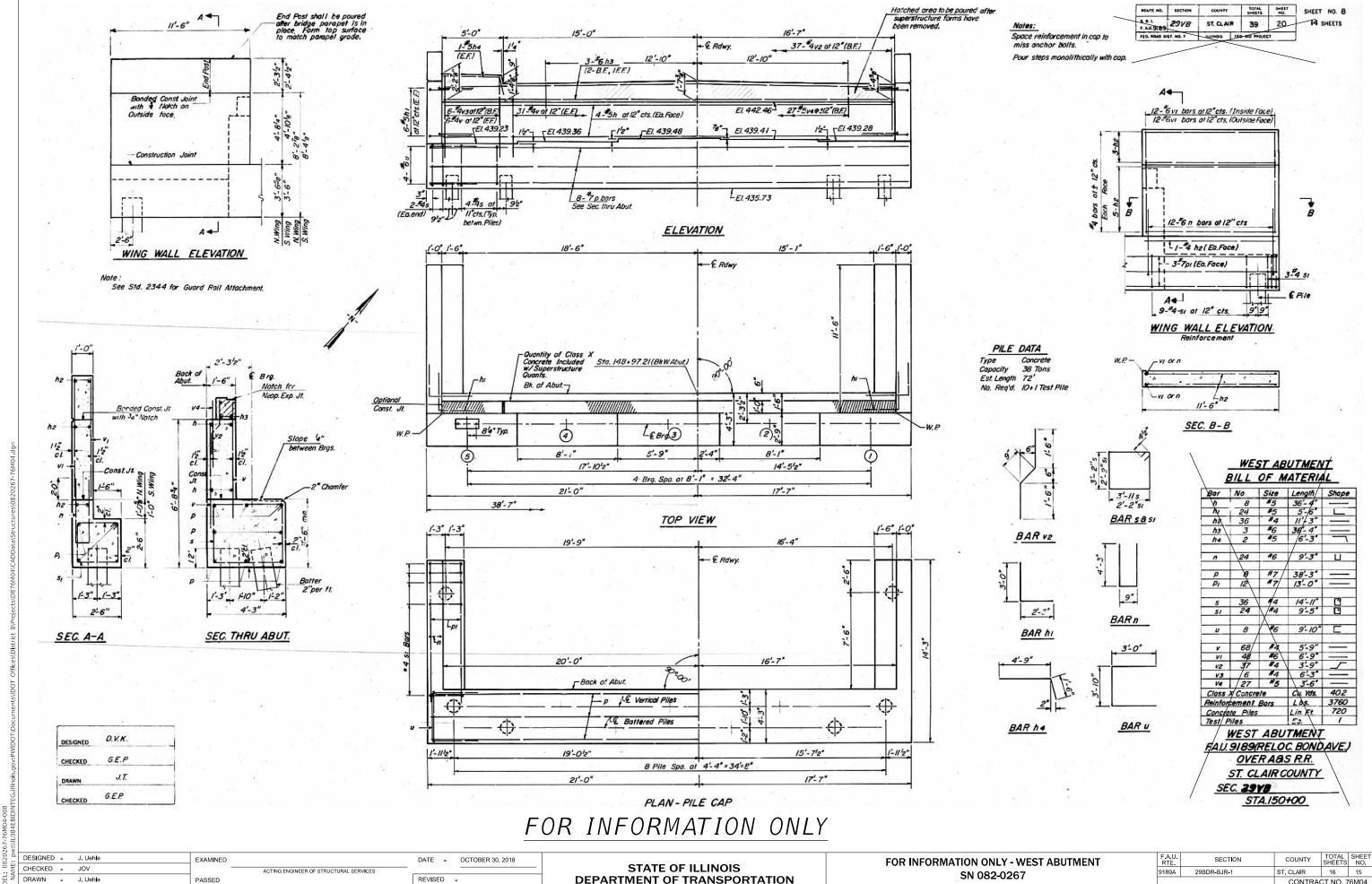


WEST ABUTMENT SOUTH WINGWALL



EAST ABUTMENT SOUTH WINGWALL

267											
1820 E: p	DESIGNED - J. Uehle	EXAMINED	ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 30, 2018	07477 07 H L IN 010	WINGWALL PICTURES	F.A.U.	SECTION	COUNTY	TOTAL SI SHEETS	HEET NO.
○ <u>₹</u>	CHECKED - JOV				STATE OF ILLINOIS	SN 082-0267	9189A	29BDR-BJR-1	ST, CLAIR	16	14
H N	DRAWN - J. Uehle	PASSED		REVISED - DEPARTMENT OF	DEPARTMENT OF TRANSPORTATION	SN 082-0267		CONTRACT NO. 76M04			
Ø E	CHECKED - JOV	-	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET 7 OF 9 SHEETS		ILLINOIS	FED. AID PROJECT		
	11/15/2018 11:29:06 AM										

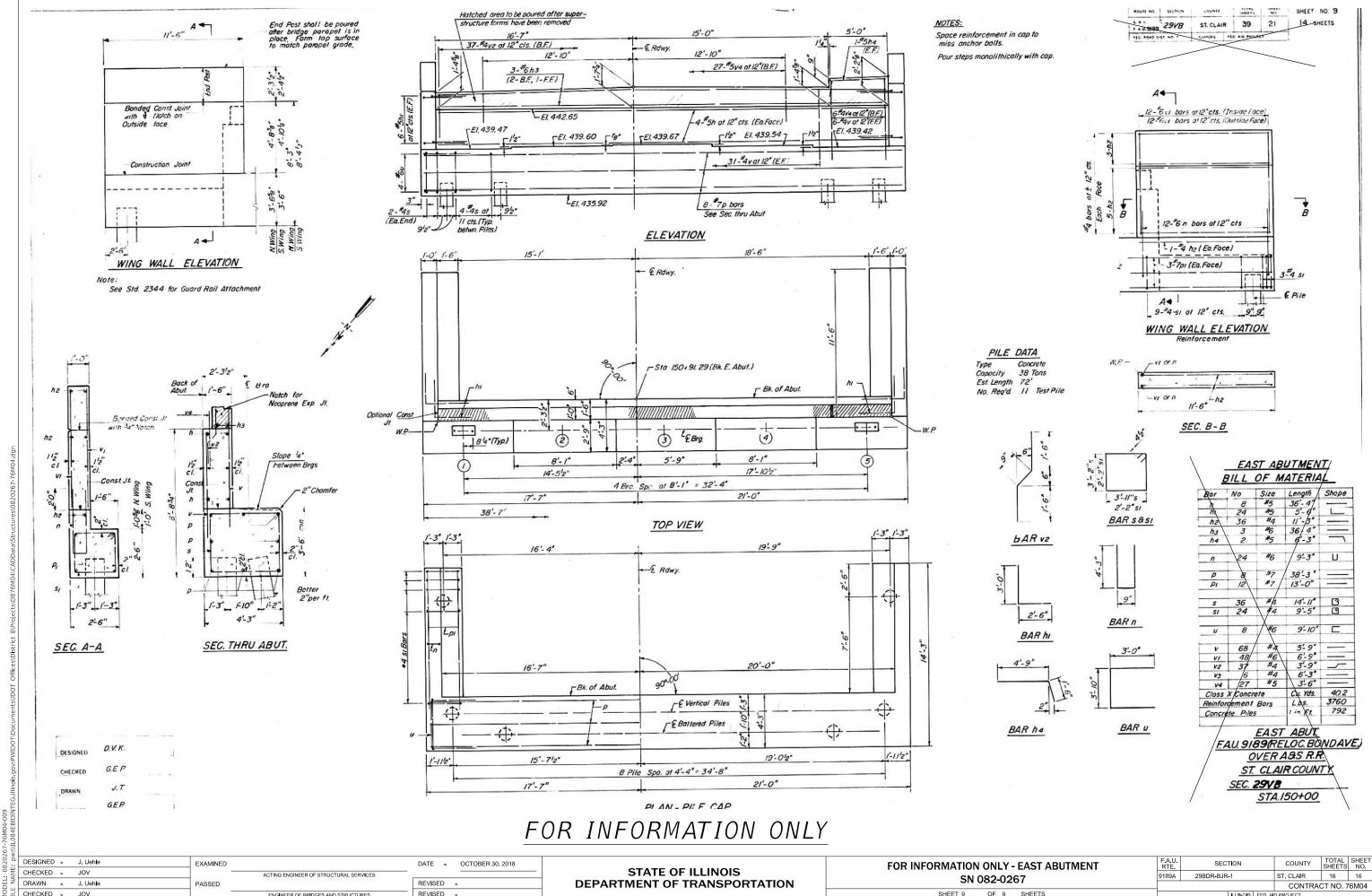


CHECKED - JOV 11/15/2018 11:29:07 AM

REVISED -

OF 9 SHEETS SHEET 8

CONTRACT NO. 76M04



11/15/2018 11:29:15 AM

OF 9 SHEETS SHEET 9