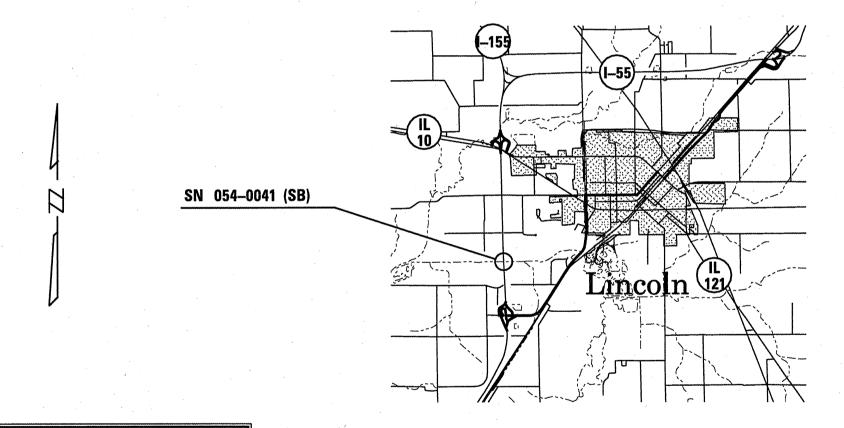
FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET 2.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED **CONTRACT MAINTENANCE**

FAI ROUTE 55 (I–55) SECTION 54-3 BJR **LOGAN COUNTY**

C-96-004-10



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

BRIDGE MAINTENANCE ENGINEER: STEVE BERAN

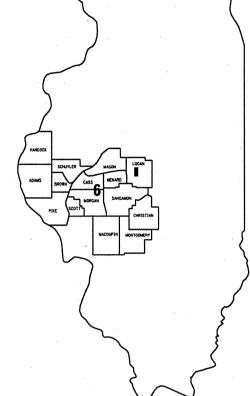
PHONE: (217) 785-9290
BRIDGE INSPECTION ENGINEER: DAVE COPENBARGER

PHONE: (217) 785-5306

CONTRACT NO. 72D70

NET LENGTH OF SEC 675 FT = 0.13 MILE

SHEET 1 OF 11



CONTRACT: 72D70

LOCATION OF SECTION INDICATED THUS:

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS:

1 COVER SHEET

2 INDEX, GENERAL NOTES, & STANDARDS

3 SUMMARY OF QUANTITIES

4 EXISTING PLAN & ELEVATION

5-6 TRAFFIC CONTROL PLANS

7 EXISTING CROSS SECTIONS

8 REMOVAL DETAILS

9 PROPOSED REINFORCEMENT

10 STRIP SEAL JOINT DETAILS

11 BAR SPLICER DETAILS

STANDARDS

701101-02 701106-02 701400-04 701402 (SPECIAL) **-07** 701406-05 701901-01 704001-06

GENERAL NOTES:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60, SEE SPECIAL PROVISIONS.

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 WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

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.

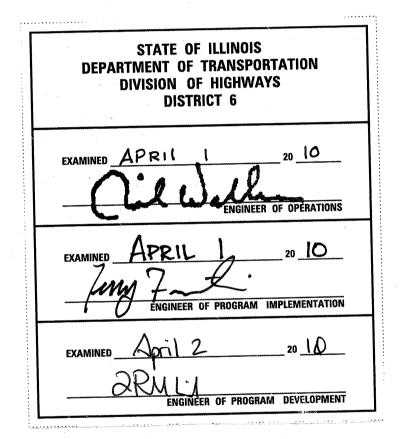
JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD SPECS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEG F.

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 EXISTING CONCRETE.

THE DECK SURFACE SHALL HAVE ITS FINAL FINISH TINED ACCORFDING TO ARTICLE 420.09(E)(I) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE SUPERSTRUCTURE

ASPHALT MIXTURE TABLE				
MIX USE	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION (GRADATION MIXTURE)	FRICTION AGGREGATE
HMA SHLDR.	PG64-22	4.0% • N DESIGN = 50	IL 9.5 OR 12.5	MIX "C"



INDEX & GENERAL NOTES

SN 054-0041

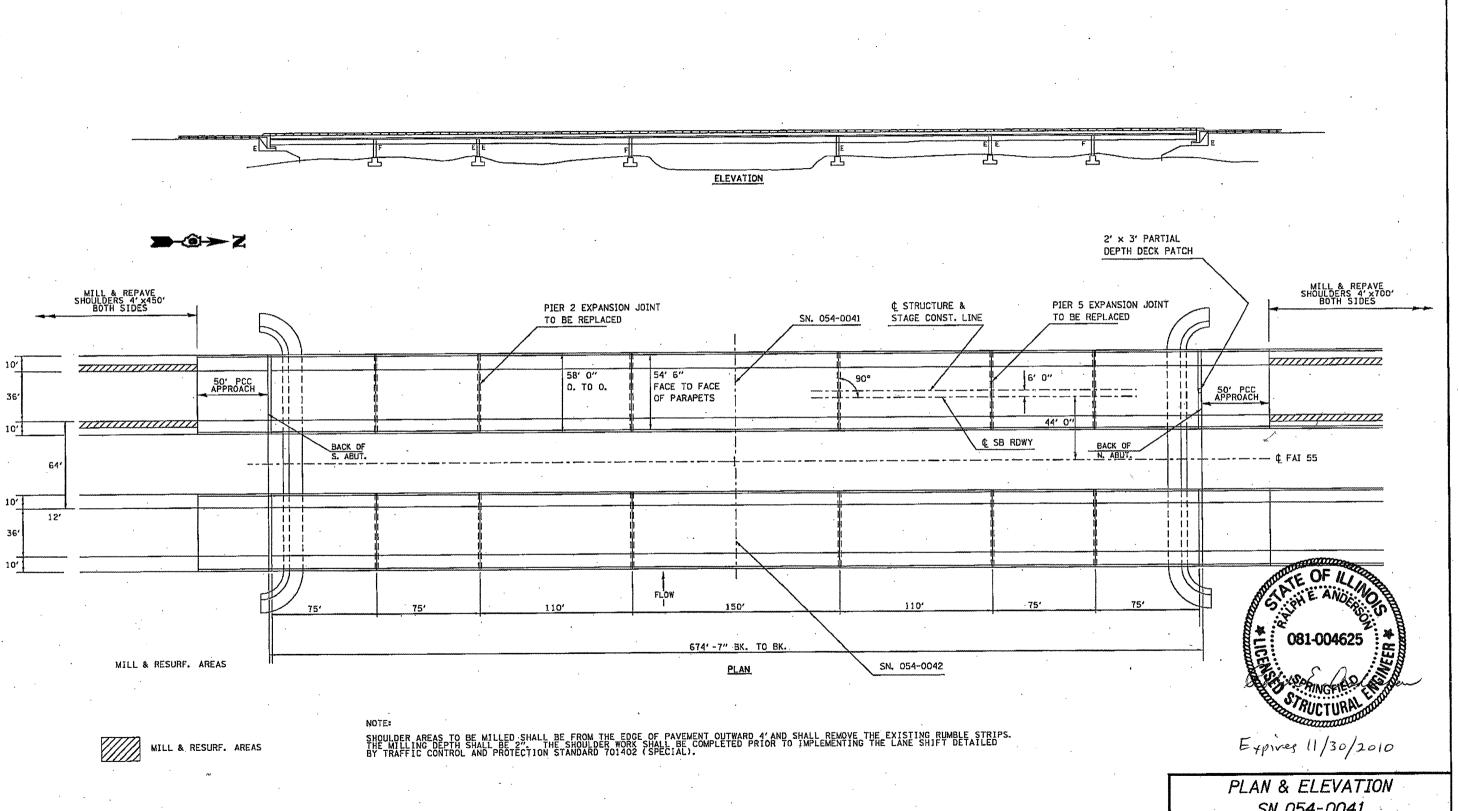
EXP. JT. REPLACEMENT

LOGAN COUNTY

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	100% STATE SFTY-2A TOTAL QTY		
·					
40600 2 00	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.4		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1022		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	115		
50102400	CONCRETE REMOVAL	CU YD	27		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	27		
50300300	PROTECTIVE COAT	SQ YD	44		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2990		
50800515	BAR SPLICERS	EACH	32		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	122		
67100100	MÓBILIZATION	L SUM	1		
70100700	TRAFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	900		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER		900		
X7010820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	L SUM	1		
X7800620	URETHANE PAVEMENT MARKING - LINE 5"	FOOT	4800		
XZ030256	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1		
XZ030260	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1		
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	0.7		

* SPECIALTY ITEM

QUANTITIES SN 054-0041 EXP. JT. REPLACEMENT LOGAN COUNTY

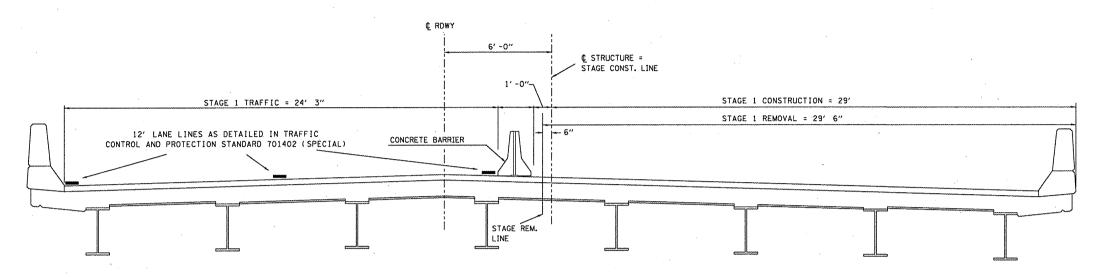


PLAN & ELEVATION

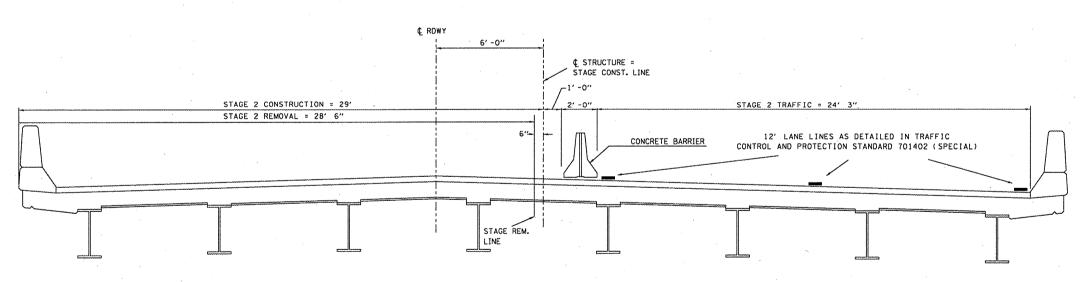
SN 054-0041

EXP. JT. REPLACEMENT

LOGAN COUNTY

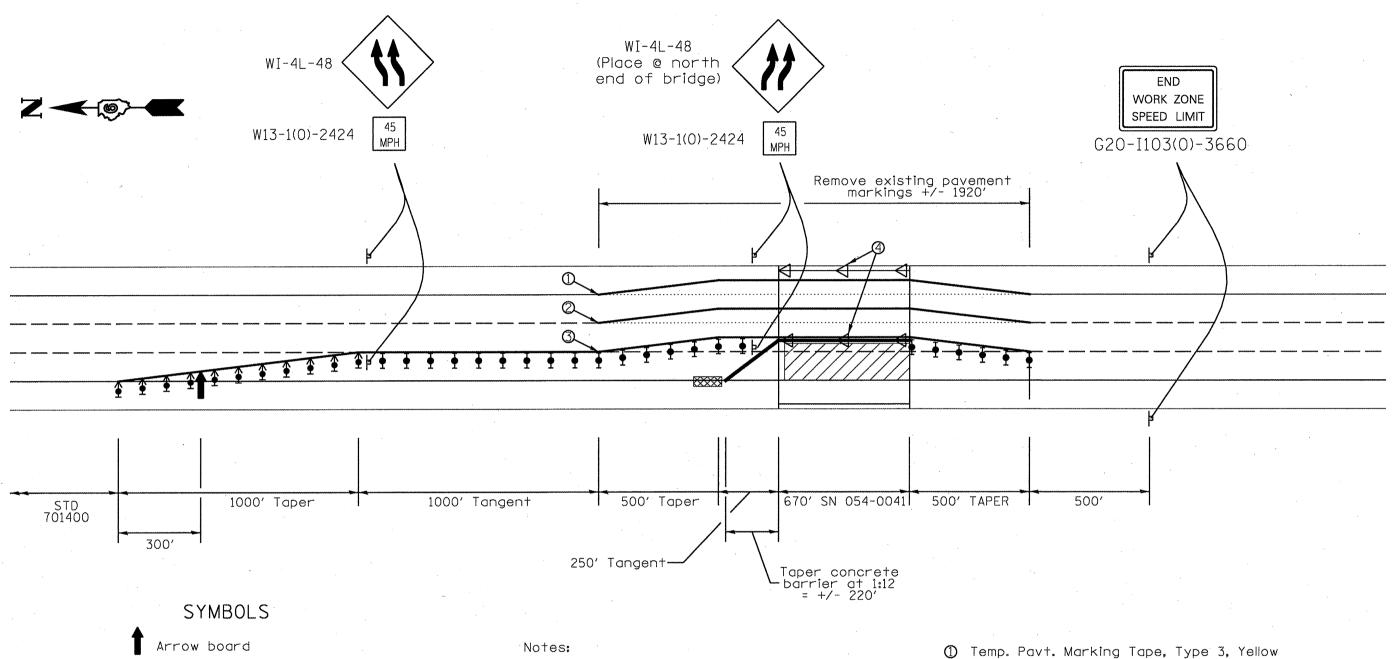


STAGE 1 CONSTRUCTION (LOOKING IN DIRECTION OF TRAFFIC)



STAGE 2 CONSTRUCTION (LOOKING IN DIRECTION OF TRAFFIC)

STAGING DETAIL
SN 054-0041
EXP. JT. REPLACEMENT
LOGAN COUNTY



Work area

₱ Sign

↑ Direction indicator barricade with steady burn monodirectional light

Type II barricade, drum, or vertical barricade with steady burn monodirectional light

Temporary concrete barrier

✓ Monodirectional barrier wall/guardrail marker

Impact attenuator

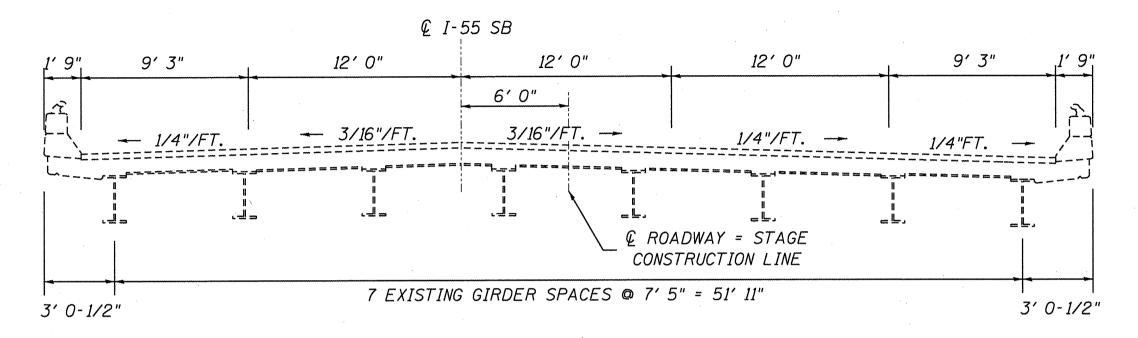
Stage 1 and 2 traffic control plans shall be similar, but mirrored.

All barricades shall be placed at 50' cts.

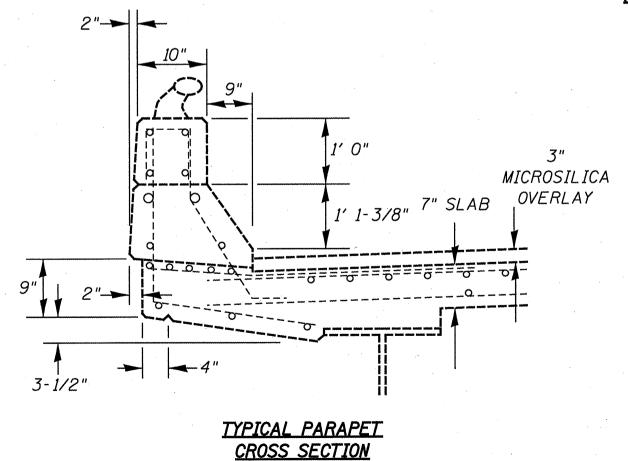
All work shown on this sheet shall be paid for under Traffic Control and Protection, Standard 701402 (Special) except for the concrete barrier wall and impact attenuator.

- Temp. Raised Pavt. Markings @ 25' cts, White & Temp. Pavt. Marking Tape, Type 3, White (Solid)
- 3 Temp. Pavt. Marking Tape, Type 3, White

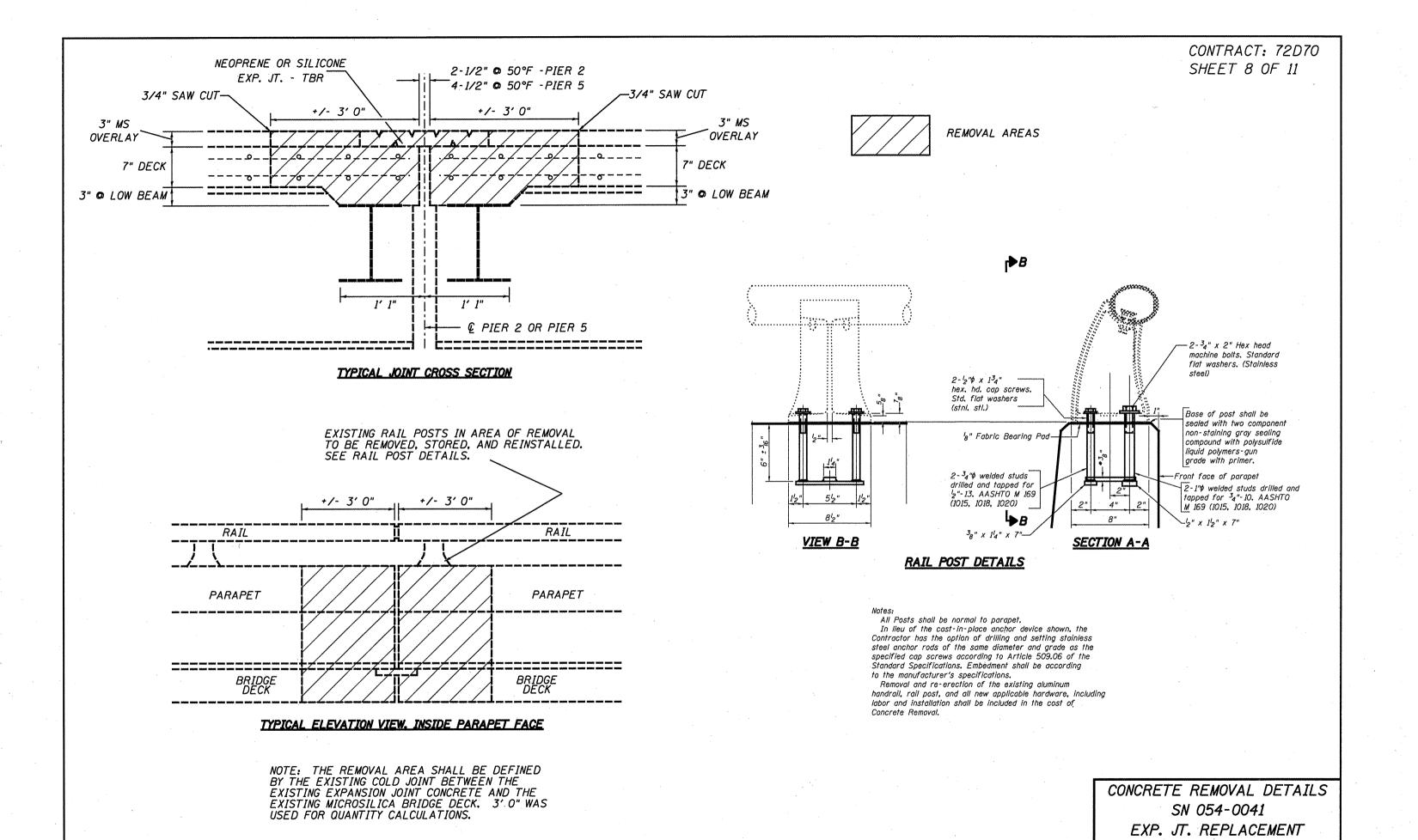
TRAF. CTRL. STD. 701402 SPC. SN 054-0041 EXP. JT. REPLACEMENT LOGAN COUNTY



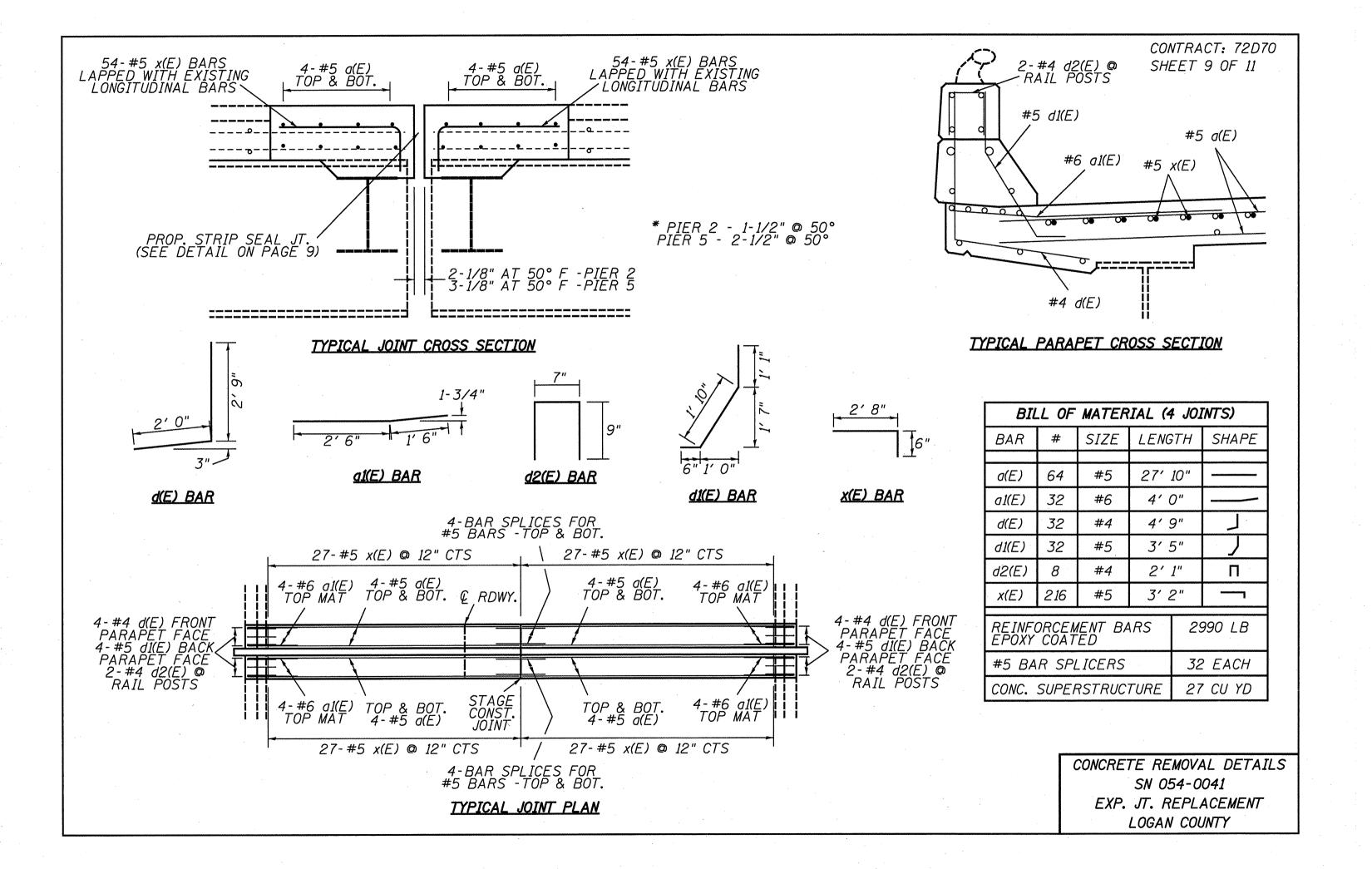
EXISTING CROSS SECTION (LOOKING SOUTH)

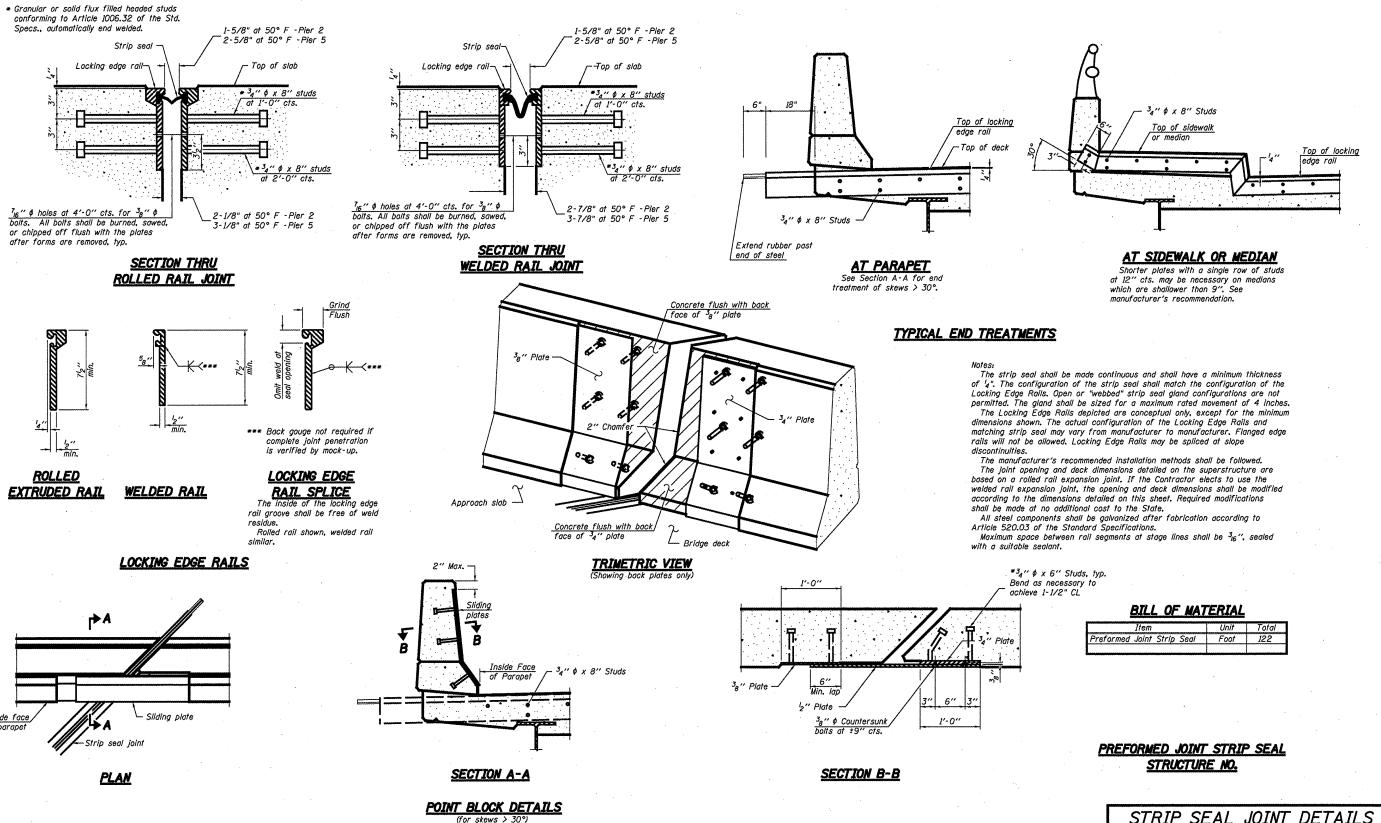


EXISTING CROSS SECTIONS
SN 054-0041
EXP. JT. REPLACEMENT
LOGAN COUNTY



LOGAN COUNTY



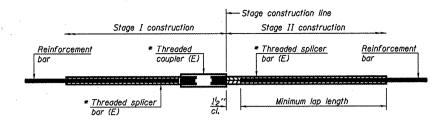


STRIP SEAL JOINT DETAILS

SN 054-0041

EXP. JT. REPLACEMENT

LOGAN COUNTY



STANDARD BAR SPLICER ASSEMBLY

	Minim	um Lap Leng	ths	
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5''	1'-11''	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8''	5'-1"	5′-5″	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

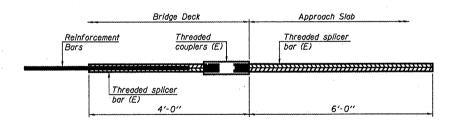
Table 1: Black bar, 0.8 Class C Table 2: Black bar, Top bar lap, 0.8 Class C Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1_2^{l} " + thread length

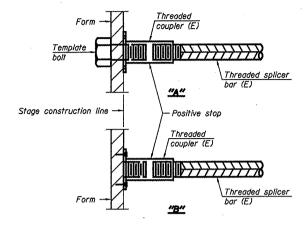
Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

able for minimum lap length	No. assemblies required	Bar size	Location
			<u> </u>



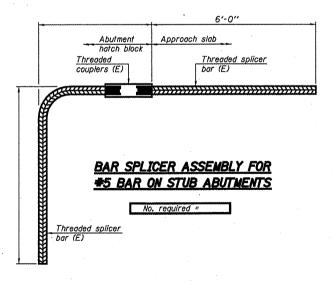
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



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.



Reinforcement bar --- Reinforcement bar

STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
€ Joint	#5	32

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 special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for

BAR SPLICER DETAILS SN 054-0041 EXP. JT. REPLACEMENT LOGAN COUNTY