0

06-14-2019 LETTING ITEM 144

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SECTION

D-96-045-19



LOCATION OF SECTION INDICATED THUS: - -

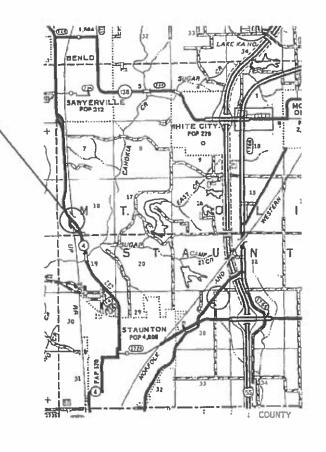
STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

# **PROPOSED HIGHWAY PLANS**

FAP ROUTE 670 (IL 4) SECTION (J) BDR, BJR, BRR PROJECT NHPP-5U5L(489) **BRIDGE DECK OVERLAY MACOUPIN COUNTY** 

C-96-059-19



GROSS LENGTH = x.xxx FT. = x.xxx MILE NET LENGTH = x.xx FT. = x.xxx MILE

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 OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290

CONTRACT NO. 72L23

0

8 7 5 5 4 P 10-11 12-18 INDEX OF SHEETS COVER SHEET
INDEX, STANDARDS, SIGNATURES, GENERAL NOTES, & SCHEDULES
SUMMARY OF QUANTITIES
TYPICAL SECTIONS
ROADWAY PLAN
STAGING PLAN
9 TRAFFIC CONTROL PLAN
9 TRAFFIC CONTROL PLAN
1 EXISTING INLET DETAILS
-18 SN 059-0009 BRIDGE PLANS

606101-05 701001-02 701006-05 701201-05 701301-04 701321-17 701901-08 704001-08

782006

STA

70

STA

10C.

LINE TYPE

PAVEMENT MARKING REMOVAL

SCHEDULE

PAVT MARK

000001-07 001006

182+32 186+06

183+78 187+76

TOTALS

554

139

STA

70

STA

BIT MATL
(TACK CT)
(POUND)
263
291

HMA SURF COURSE (TON) 66 73

PAVING

STANDARDS

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

GENERAL NOTES:

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STATE OF ILLINOIS DISTRICT 6

EXAMINED 15 Maro. EXAMINED TO PRINCE ENGINEER OF PROJECT IMPLEMENTATION ENGINEER OF OPERATIONS 20 13

EXAMINED March ENGINEER OF PROGRAM DEVELOPMENT S 20 19

> STAGE II 182+03 185+85 STAGE I 180+30 182+00 186+60 184+65 187+83 183+00 188+00 189+83 RTR DOUBLE SOLID
>
> SOLID
>
> DOUBLE SOLID SOL ID TOTAL REM (SO FT) 109 83 936 225 250 269

N/A	SUBLOT SIZE
OC/OA	QUALITY MANAGEMENT
WIX "C"	FRICTION AGGREGATE
	(GRADATION MIXTURE)
11-9.5	MIX COMPOSITION
4.0 % @ N50	DESIGN AIR VOIDS
PG 64-22	AC/PG
CSE	
HMA SURFACE	MIXTURE USE(S)

STATE OF ILLINOIS  DEPARTMENT OF TRANSPORTATION  SCALE:  SHEET OF  SHEET OF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DICT DATE - 3/19/2019	PLOT SCALE = 100.0000''in. CHECKED - REVISED	COLVEN	2	REVISED -
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_   "	SHEET OF SHEETS STA.		SIGNATURES, & QUANTITY SCHEDULES		INUEX, GENERAL NOTES, STANDARDS,	
F.A.P. SECTION  RTE. (J) BDR, BJR, BRR  670 (J) BDR, BJR, BRR	SHEET OF SHEETS STA.		SIGNATURES, & QUANTITY SCHEDULES	670	INUEX, GENERAL NOTES, STANDARDS,	F.A.P.

6-00492-0000 SN 059-0009 80/20 FED/ST

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 756 756  40600990 TEMPORARY RAMP SO YD 100 100  40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139  44000400 GUTTER REMOVAL FOOT 124 124  48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25  50157300 PROTECTIVE SHIELD SO YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SO YD 920 920  50300300 PROTECTIVE COAT SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					BRIDGE
28100807 STONE DUMPED RIPRAP, CLASS A4 TON 30 30 40600290 BITUMINOUS MATERIALS (TACK COAT) POUND 554 554 40600290 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 756 756 40600990 TEMPORARY RAMP SO YD 100 100 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139 44000400 GUTTER REMOVAL FOOT 124 124 48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25 50157300 PROTECTIVE SHIELD SO YD 103 103 50102400 CONCRETE REMOVAL CU YD 6.6 6 6.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6 50300260 BRIDGE DECK GROOVING SO YD 920 920 50300300 PROTECTIVE COAT SO YD 989 989	1			1	
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40600290 BITUMINOUS MATERIALS (TACK COAT) POUND 554 554 40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 756 756 40600990 TEMPORARY RAMP SO YD 100 100 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139 44000400 GUTTER REMOVAL FOOT 124 124 48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25 50157300 PROTECTIVE SHIELD SO YD 103 103 50102400 CONCRETE REMOVAL CU YD 6.6 6.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 7, 6 7, 6 50300256 BRIDGE DECK GROOVING SO YD 920 920 50300300 PROTECTIVE COAT SO YD 989 989 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 756 756  40600990 TEMPORARY RAMP SO YD 100 100  40600310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139  44000400 GUTTER REMOVAL FOOT 124 124  48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25  50157300 PROTECTIVE SHIELD SO YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SO YD 920 920  50300300 PROTECTIVE COAT SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320	28100807	STONE DUMPED RIPRAP, CLASS A4	TON	30	30
40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 756 756  40600990 TEMPORARY RAMP SO YD 100 100  40600310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139  44000400 GUTTER REMOVAL FOOT 124 124  48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25  50157300 PROTECTIVE SHIELD SO YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SO YD 920 920  50300300 PROTECTIVE COAT SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
40600990 TEMPORARY RAMP SO YD 100 100 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139 44000400 GUTTER REMOVAL FOOT 124 124 48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25 50157300 PROTECTIVE SHIELD SO YD 103 103 50102400 CONCRETE REMOVAL CU YD 6.6 6.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6 50300260 BRIDGE DECK GROOVING SO YD 920 50300300 PROTECTIVE COAT SO YD 989 989 50300305 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	554	554
40600990 TEMPORARY RAMP SO YD 100 100 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 139 139 44000400 GUTTER REMOVAL FOOT 124 124 48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25 50157300 PROTECTIVE SHIELD SO YD 103 103 50102400 CONCRETE REMOVAL CU YD 6.6 6.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6 50300260 BRIDGE DECK GROOVING SO YD 920 50300300 PROTECTIVE COAT SO YD 989 989 50300305 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
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40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50  TON 139 139  44000400 GUTTER REMOVAL  48102100 AGGREGATE WEDGE SHOULDER, TYPE B  TON 25 25  50157300 PROTECTIVE SHIELD  SO YD 103 103  50102400 CONCRETE REMOVAL  CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE  CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING  SO YD 920  920  50300300 PROTECTIVE COAT  SO YD 989  989  50800205 REINFORCEMENT BARS, EPOXY COATED					
44000400 GUTTER REMOVAL FOOT 124 124  48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25  50157300 PROTECTIVE SHIELD SO YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SO YD 920 920  50300300 PROTECTIVE COAT SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320	40600990	TEMPORARY RAMP	SQ YD	100	100
44000400 GUTTER REMOVAL FOOT 124 124  48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 25 25  50157300 PROTECTIVE SHIELD SO YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SO YD 920 920  50300300 PROTECTIVE COAT SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
### ### ### ### ### ### ### ### ### ##	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	139	139
### ### ### ### ### ### ### ### ### ##					
50157300 PROTECTIVE SHIELD SQ YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SQ YD 920 920  50300300 PROTECTIVE COAT SQ YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320	44000400	GUTTER REMOVAL	FOOT	124	124
50157300 PROTECTIVE SHIELD SQ YD 103 103  50102400 CONCRETE REMOVAL CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SQ YD 920 920  50300300 PROTECTIVE COAT SQ YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
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50102400 CONCRETE REMOVAL  CU YD 6.6 6.6  50300255 CONCRETE SUPERSTRUCTURE  CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING  SO YD 920  920  50300300 PROTECTIVE COAT  SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED  POUND 1320 1320					
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50300255 CONCRETE SUPERSTRUCTURE CU YD 7.6 7.6  50300260 BRIDGE DECK GROOVING SO YD 920 920  50300300 PROTECTIVE COAT SO YD 989 989  50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
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50300300 PROTECTIVE COAT SO YD 989 989 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320	50300255	CONCRETE SUPERSTRUCTURE	CU YD	7. 6	7. 6
50300300 PROTECTIVE COAT SO YD 989 989 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320	50300260	BRIDGE DECK GROOVING	SQ YD	920	920
50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1320 1320					
	50300300	PROTECTIVE COAT	SQ YD	989	989
				_	
50800515 BAR SPLICERS EACH 12 12	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1320	1320
50800515 BAR SPLICERS EACH 12 12					
	50800515	BAR SPLICERS	EACH	12	12

6-00492-0000 SN 059-0009 80/20 FED/ST

				BRIDGE
CODE			TOTAL	0059
NO.	ITEM	UNIT	QUANTITY	MACOUPIN
52000110	PREFORMED JOINT STRIP SEAL	FOOT	120	120
60602500	CONCRETE GUTTER, TYPE A	FOOT	124	124
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100405	TRIFFIG CONTROL AND RECTFORM CTANDARD 701701	F400		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	120	120
70300100	SHORT TERM PAVEMENT MARKING	FOOT	100	100
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	33	33
70400100	TEMPORARY CONCRETE BARRIER	FOOT	500	500
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450	450
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2

REV. - MS

USER NAME = dudleybm	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	1
PLOT DATE = 3/19/2019	DATE -	REVISED -	

SCALE:

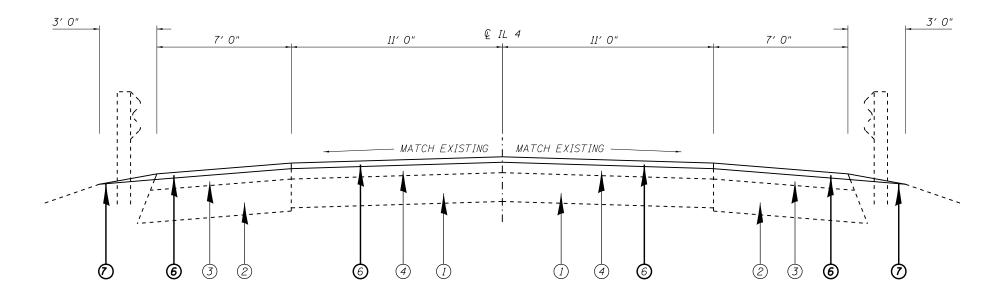
6-00492-0000 SN 059-0009 80/20 FED/ST

	CODE			TOTAL	BRIDGE
	CODE NO.	ITEM	UNIT	I +	0059 MACOUPIN
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
*	78001120	ITEM UNIT QUANTITY  32 IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH 2  20 PAINT PAVEMENT MARKING - LINE 5" FOOT 4000  00 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH 4  179 PAVEMENT MARKING REMOVAL - GRINDING SO FT 936  05 FRAMES AND GRATES TO BE ADJUSTED (SPECIAL) EACH 4  101 WIDTH RESTRICTION SIGNING L SUM 1  100 APPROACH SLAB REPAIR (PARTIAL DEPTH) SO YD 5  30 BRIDGE DECK SCARIFICATION, 3/4" SO YD 970  54 STRUCTURAL REPAIR OF CONCRETE OVERLAY, 2-1/2" SO YD 970  150 DECK SLAB REPAIR (FULL DEPTH, TYPE II) SO YD 50  151 DRAINAGE SCUPPERS TO BE ADJUSTED EACH 4	4000		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	936	936
	X6030205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	4	4
	X7200201	WIDTH RESTRICTION SIGNING	I SUM	1	1
				-	<u> </u>
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	5	5
	Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	970	970
	Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2"	SQ YD	970	970
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	15	15
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	50	50
	Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4	4
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

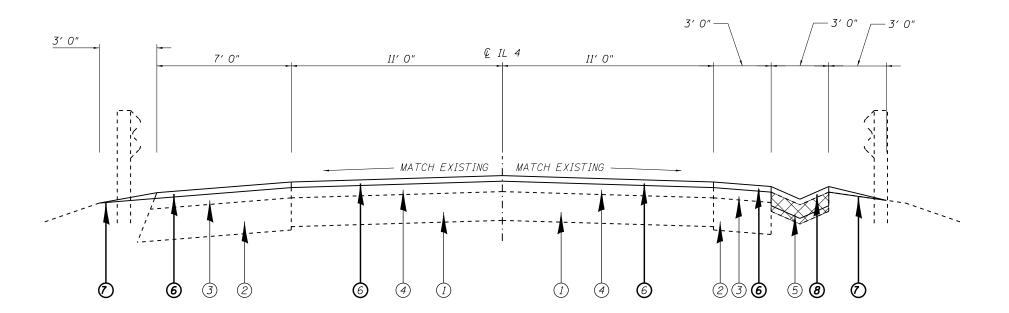
### **★** SPECIALTY ITEM

REV. - MS

USER NAME = dudleybm	DESIGNED -	REVISED -						F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS		S	UMMARY	/ OF QUANTITIES		670	(J) BDR, BJR, BRR	MACOUPIN	18 4
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRACT	Г NO. 72L23
PLOT DATE = 3/19/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	AID PROJECT	



STA 182+32 TO STA 183+48\*



STA 186+36\* TO STA 187+76

- EXISTING PCC PAVEMENT, 9"
   EXISTING BASE COURSE WIDENING, 10"
   EXISTING HMA SHOULDER, ±3-1/4"
   EXISTING HMA OVERLAY, ±3-1/4"
   EXISTING PCC GUTTER
  - ) PROPOSED HMA SURFACE COURSE, 1-3/4" ) PROPOSED AGGRAGATE WEDGE SHOULDER - TYPE B ) PROPOSED CONCRETE GUTTER, TYPE A
    - \* STA 183+48 TO STA 186+36 = SN 059-0009 AND APPROACHES

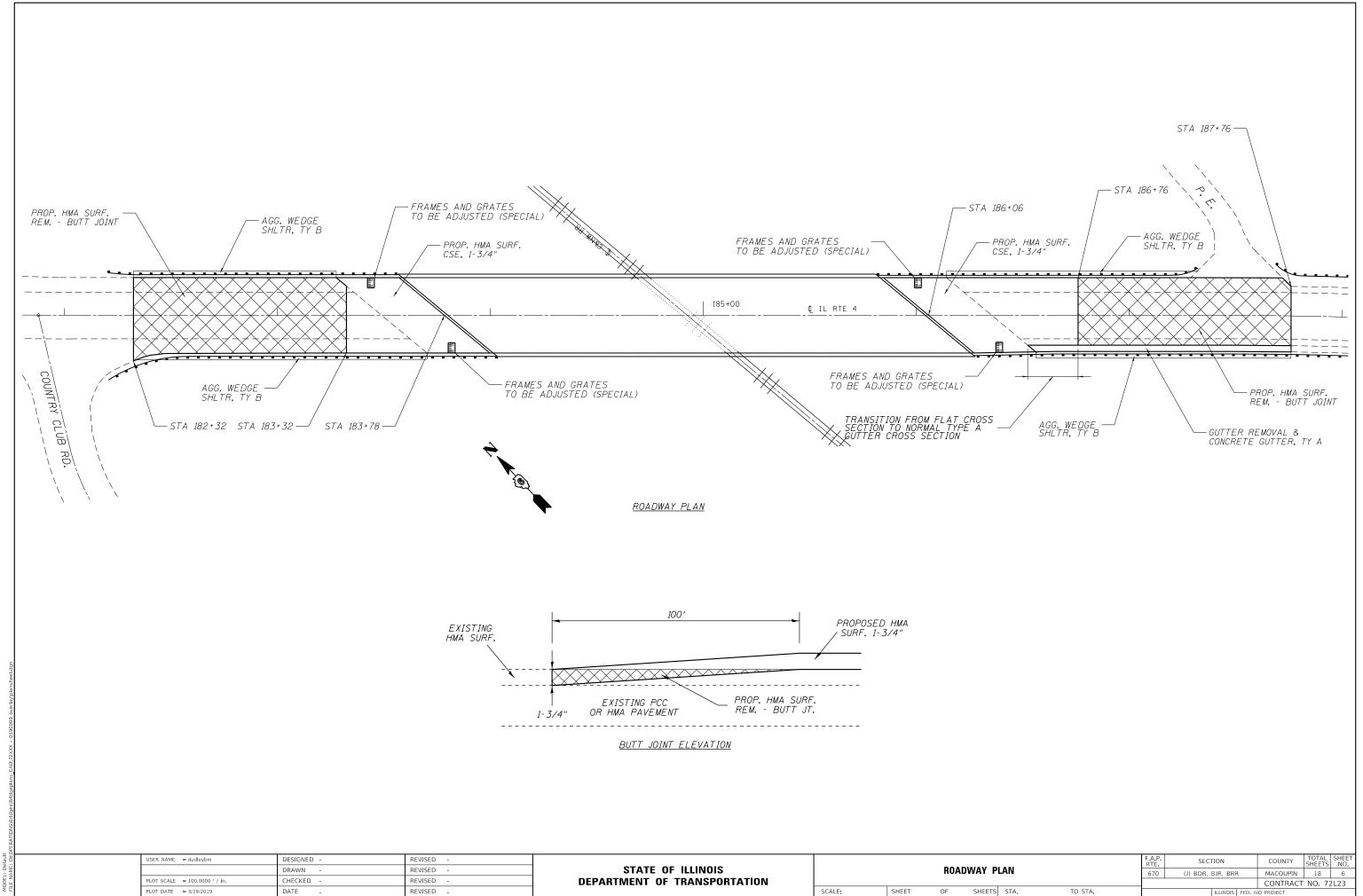
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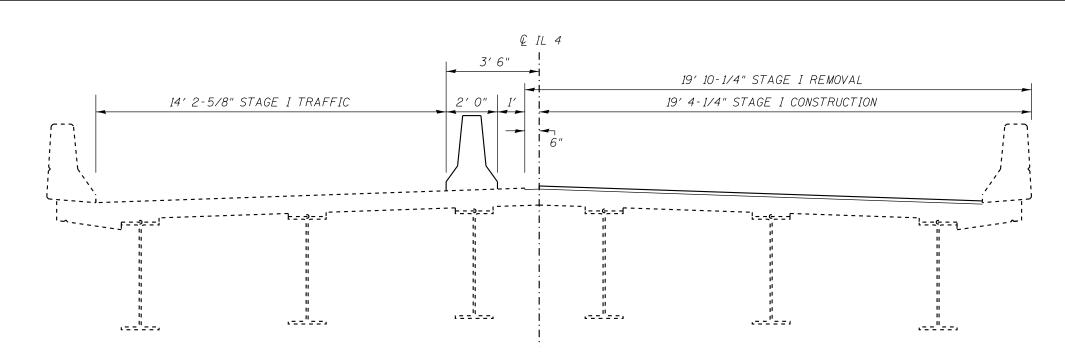
NEW TYPE A GUTTER SHALL BE PLACED DURING STAGE II. FINISH GRADE SHALL BE 1-3/4" ABOVE THE EXISTING PAVEMENT AND 1-3/4" ABOVE THE MILLED SURFACE WITHIN THE BUTT JOINT AREA. ANY GRADING NECESSARY PRIOR TO PLACING THE NEW GUTTER SHALL BE ACCOMPLISED USING COMPACTED ROCK OR SAND TO THE SATISFACTION OF THE ENGINEER. GRADING AND MATERIAL PLACEMENT FOR GRADING SHALL BE CONSIDERED INCIDENTAL TO THE CONCRETE GUTTER PAY ITEM AND SHALL NOT BE MEASURED FOR PAYMENT SEPARATELY.

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 3/19/2019	DATE -	REVISED -

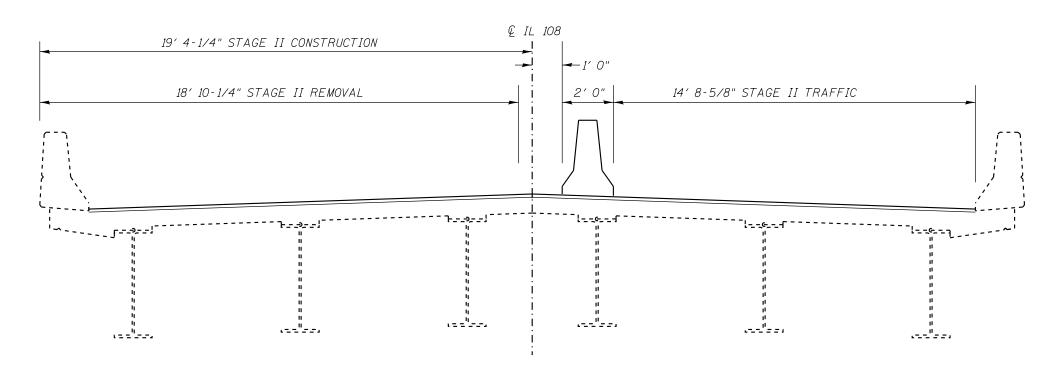
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:



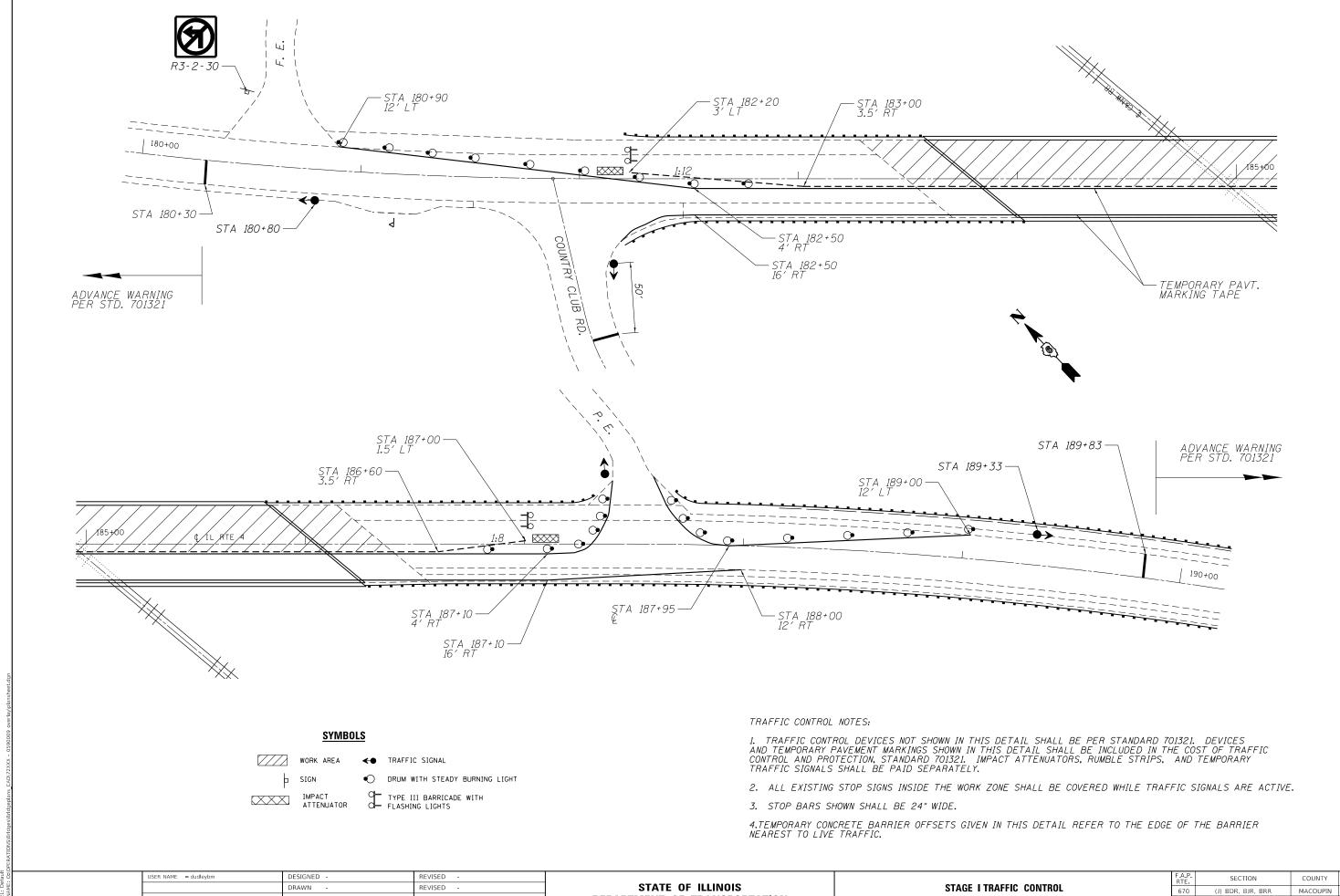


STAGE I CROSS SECTION (LOOKING NORTH)



STAGE II CROSS SECTION (LOOKING NORTH)

USER NAME = dudleybm	DESIGNED -	REVISED -								F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC STAGING PLAN			670	(J) BDR, BJR, BRR	MACOUPIN	18 7		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO. 72L23
PLOT DATE = 3/19/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	



**DEPARTMENT OF TRANSPORTATION** 

OF SHEETS STA.

SHEETS NO.

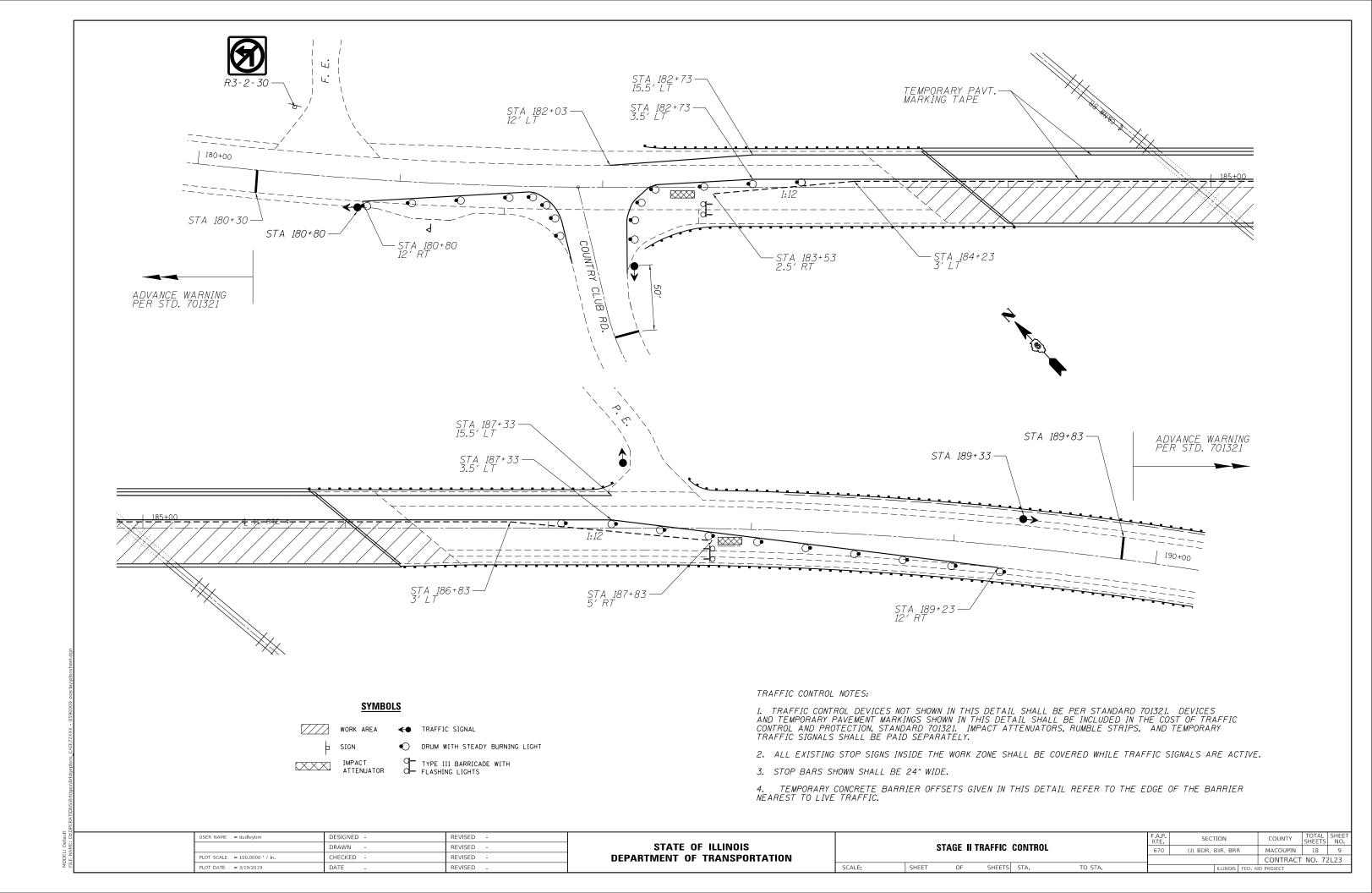
CONTRACT NO. 72L23

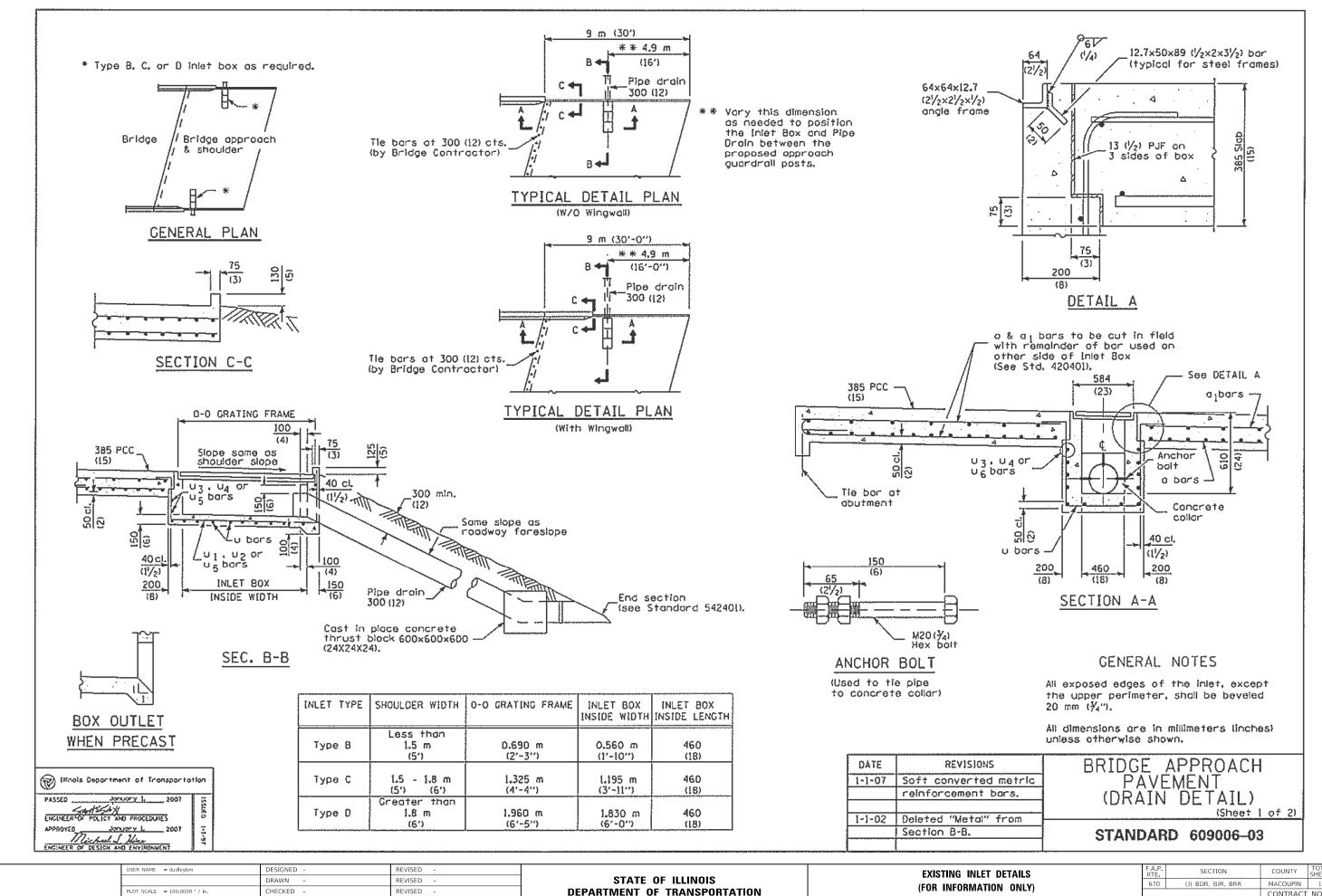
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DATE

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PLOT DATE = 3/19/2019

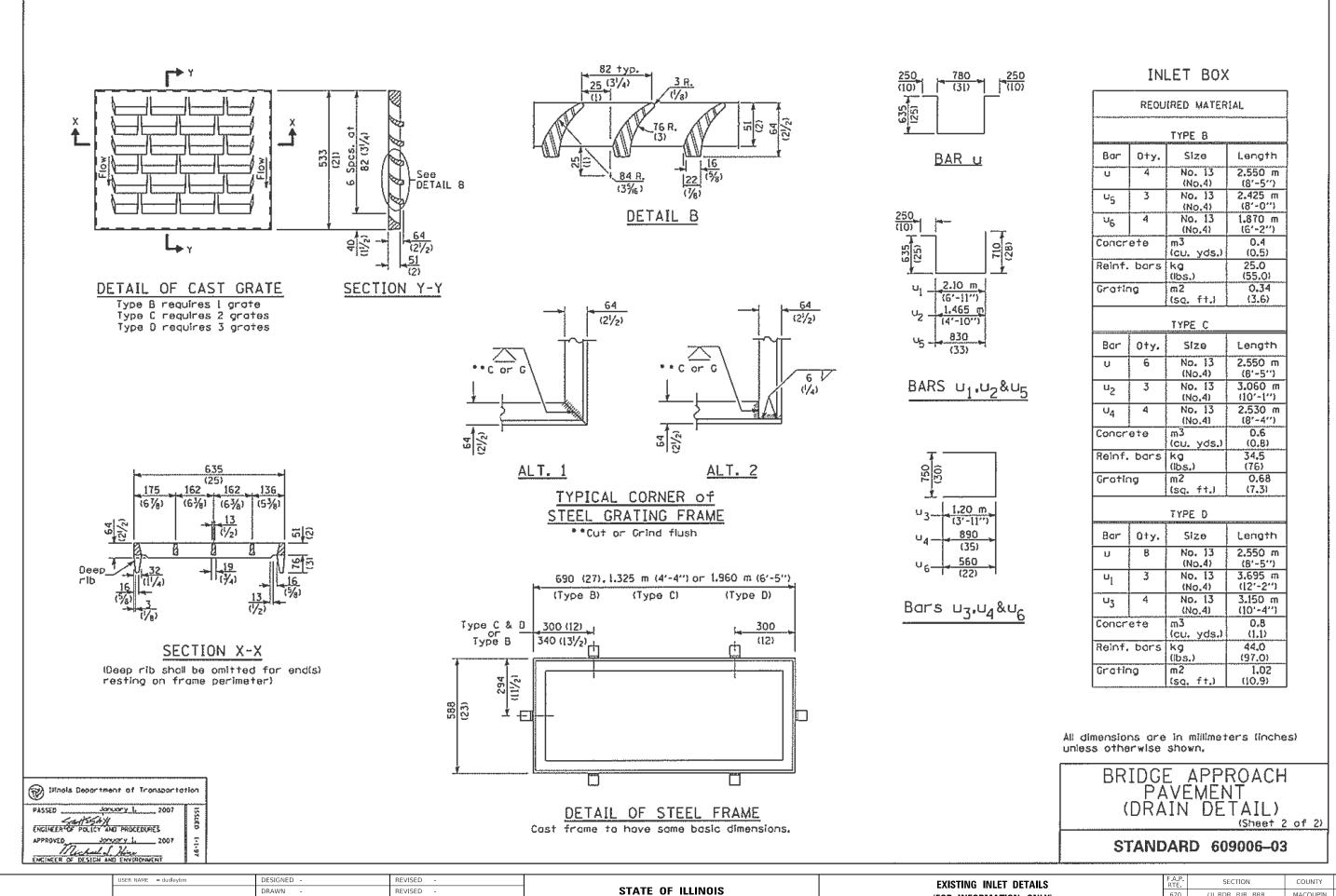
DATE

REVISED

(FOR INFORMATION ONLY) SCALE: SHEET SHEETS STA

TO STA.

18 10 CONTRACT NO. 72L23



CHECKED

DATE

PLOT DATE = 3/19/2019

REVISED

REVISED

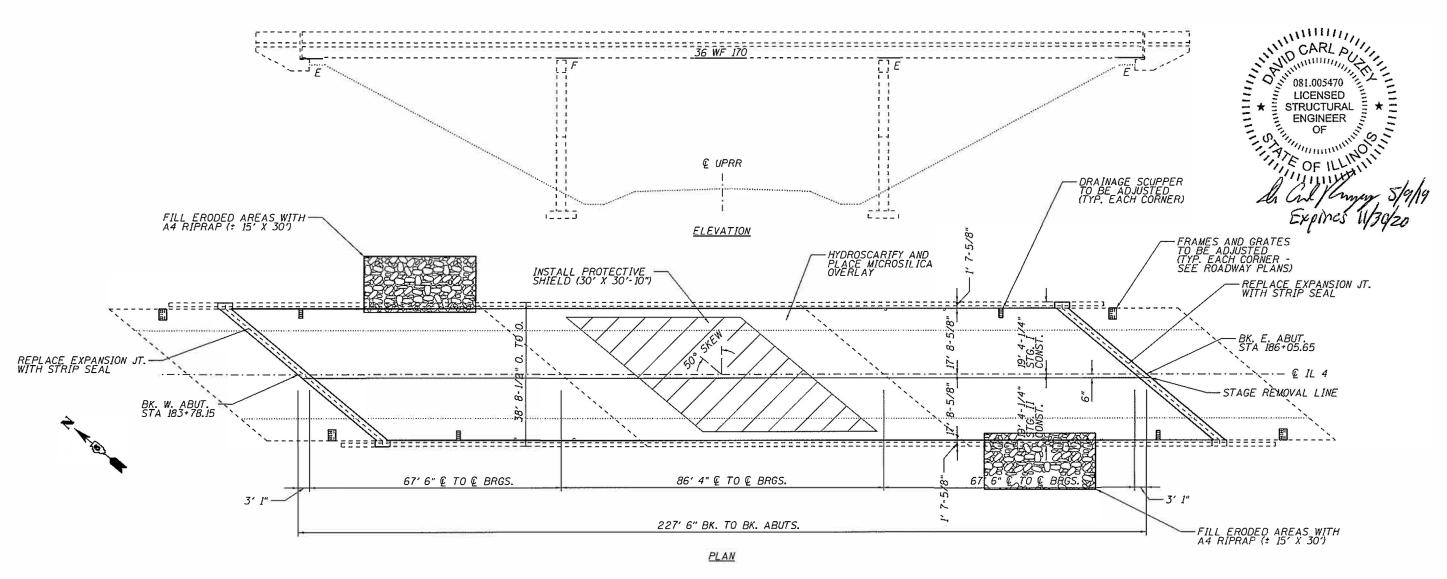
**DEPARTMENT OF TRANSPORTATION** 

(FOR INFORMATION ONLY) SHEETS STA.

TO STA.

SCALE:

MACOUPIN 18 11 (J) BDR, BJR, BRR CONTRACT NO. 72L23



#### STRUCTURE GENERAL NOTES:

SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY, SEE SPECIAL PROVISIONS.

ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK. ALL HEAVY OR 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 CONCRETE REMOVAL.

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 THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT 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 STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.

THE ABUTMENT AND DECK SURFACES IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL HAVE A TINED FINISH AS PER ARTICLE 420.09(e)(1) OF THE STANDARD SPECIFICATIONS, COST INCLUDED WITH CONCRETE SUPERSTRUCTURE.

PROTECTIVE COAT SHALL BE APPLIED TO NEW CONCRETE ON THE DECK AND PARAPETS ADJACENT TO THE PROPOSED EXPANSION JOINTS AND THE MICROSILICA OVERLAY.

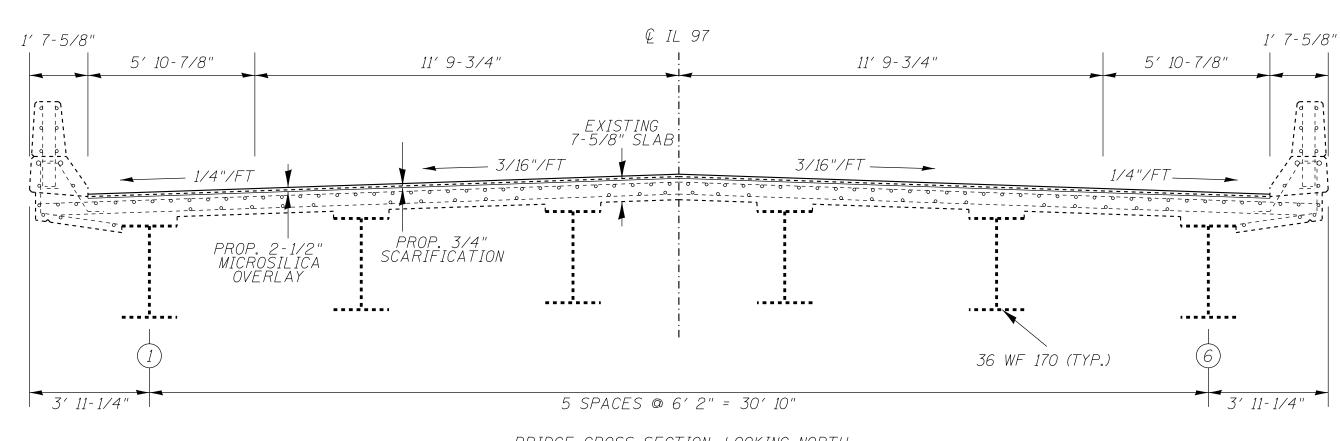
RIPRAP SHALL BE USED TO FILL ERODED AREAS AS SHOWN IN THE PLANS. EXCAVATION FOR RIPRAP, FILTER FABRIC. AND BEDDING MATERIAL WILL NOT BE REQUIRED.

THE ACTUAL GRATE TYPE AND BOLT SPACINGS ON EXISTING DRAINAGE SCUPPERS VARY FROM THOSE SHOWN ON EXISTING PLANS, THE CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS.

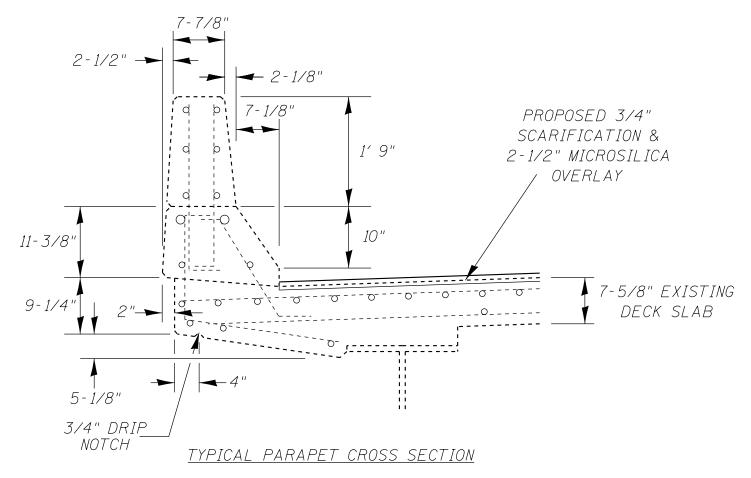
	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	6.6
Concrete Superstructure	Cu. Yd.	7.6
Protective Shield	Sq. Yd.	103
Bridge Deck Grooving	Sq. Yd.	920
Reinforcement Bars, Epoxy Coated	Pound	1320
Bar Splicers	Each	12
Preformed Joint Strip Seal	Foot	120
Bridge Deck Scarification, 3/4"	Sq. Yd.	970
Bridge Deck Microsilica Concrete Overlay, 2-1/2"	Sq. Yd.	970
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	50
Approach Slab Repair (Partial Depth)	Sq. Yd.	5
Protective Coat	Sq. Yd.	989
Drainage Scuppers To Be Adjusted	Each	4
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	15
Stone Dumped Riprap, Class A4	Ton	30

REV. - MS

USER NAME = dudleybm	DESIGNED - BM	REVISED -			Gi	ENERAL	PLAN & E	LEVATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SI	IEET NO.
	DRAWN	REVISED -	STATE OF ILLINOIS			CI	uso non			670	(J) BDR, BJR, BRR	MACOUPIN	18	12
PLOT SCALE # 100.0000 ' / In.	CHECKED - AJK		DEPARTMENT OF TRANSPORTATION			91	4 039-000	<del></del>			00 101	CONTRAC	NO. 72L2	
PLOT DATE = 3/19/2019	DATE -	REVISED -		SCALE:	SHEET	QF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		-



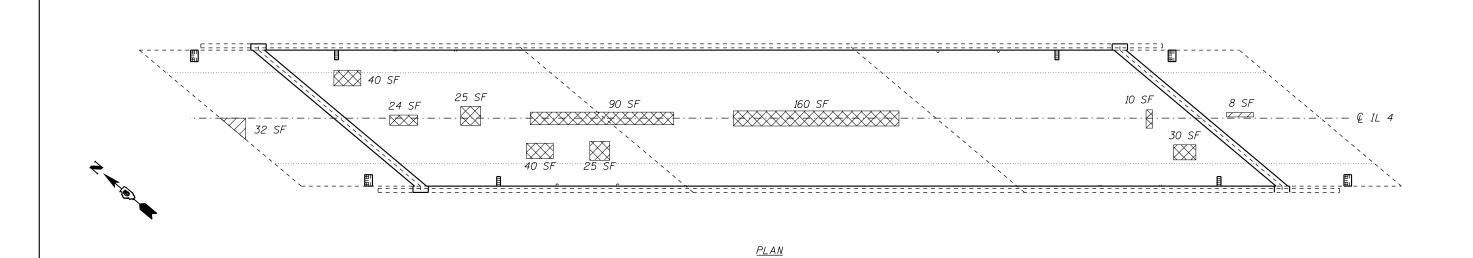
#### BRIDGE CROSS SECTION, LOOKING NORTH

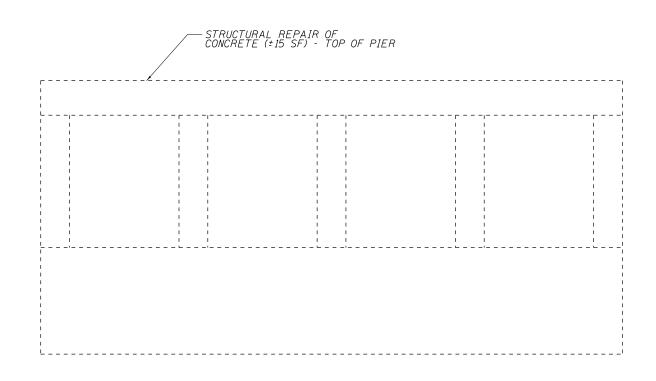


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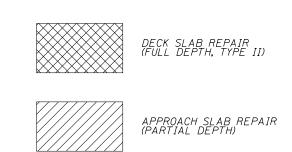
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CROSS SECTIONS				F.A.P. RTE	SECTION	N		COUNTY	TOTAL SHEETS	SHE	
SN 059-0009				670	(J) BDR, BJR, BRR		MACOUPIN	18	13		
								CONTRACT	NO. 72	2L23	
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NORTH PIER - NORTH FACE



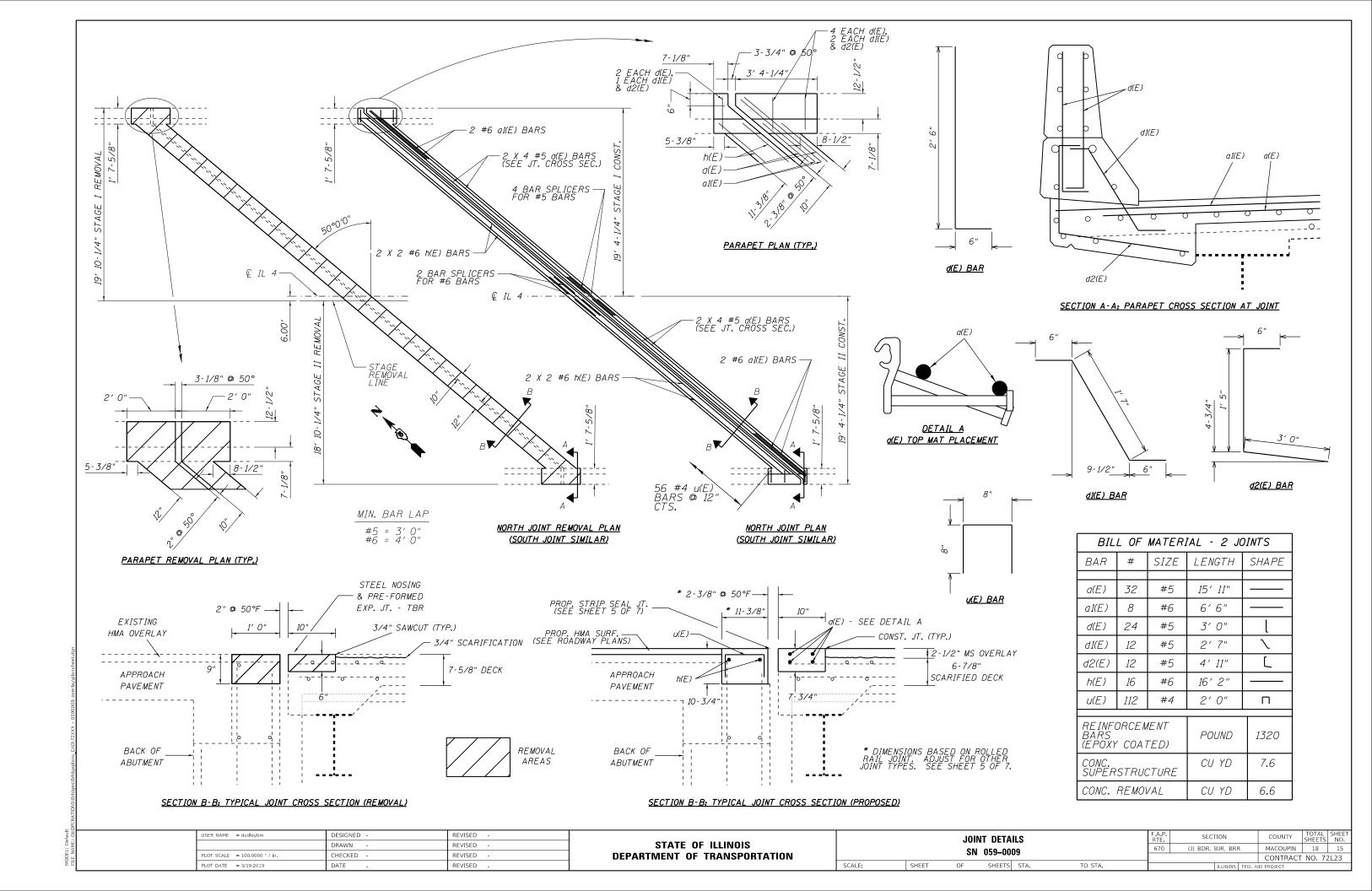
#### PATCHING & SUBSTRUCTURE REPAIR BILL OF MATERIAL (059-0009)

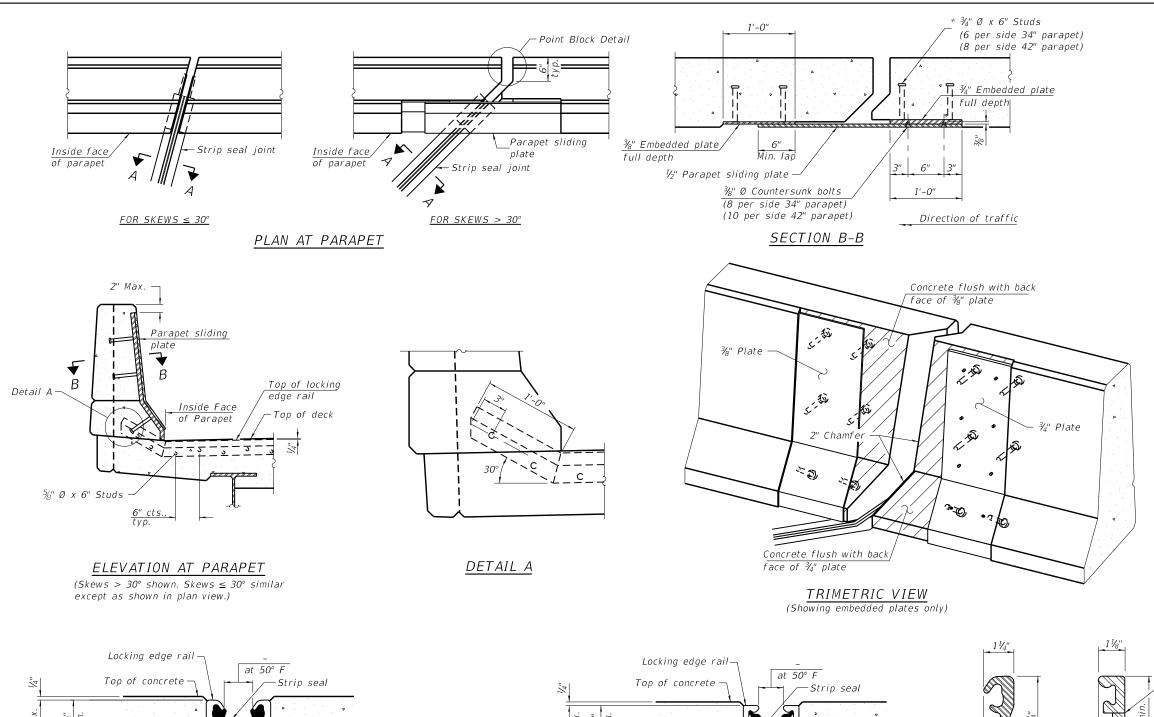
ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II) Approach Slab Repair (Partial Depth)	Sq. Yd. Sq. Yd.	50 5
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	15

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:





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

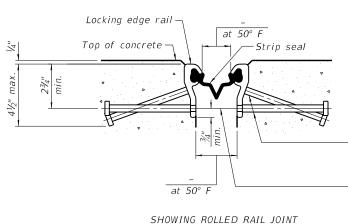
The manufacturer's recommended installation methods shall be followed.

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. 34" F-shape barrier shown, 42" F-shape similar as noted.

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.



8-11-17

\*  $\frac{1}{8}$ " Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

 $\frac{3}{6}$ "  $\phi$  threaded rods in  $\frac{7}{16}$ "  $\phi$  holes at  $\pm 4$ '-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

## <u>ROLLED</u> (EXTRUDED) RAIL

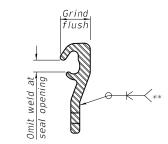
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### LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.

WELDED RAIL

TO STA.



#### LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

#### BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	120

#### SECTION A-A

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

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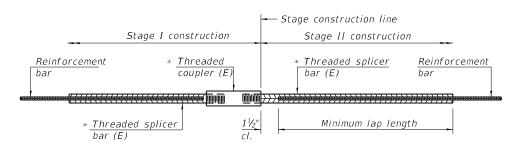
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SHOWING WELDED RAIL JOINT

PREFORMED JOINT STRIP SEAL **STRUCTURE NO. 059–0009** SHEETS STA.

SECTION COUNTY (J) BDR, BJR, BRR MACOUPIN 18 16 CONTRACT NO. 72L23

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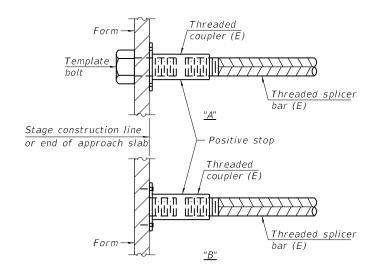


#### STANDARD BAR SPLICER ASSEMBLY

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

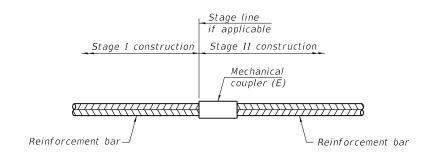
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum Iap length		
Abuts. (deck side)	#5	8	3′ 0"		
Abuts. (appr. side)	#6	4	4′0"		



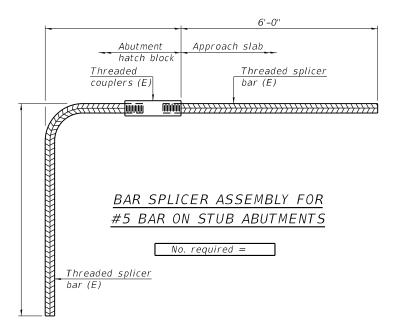
#### INSTALLATION AND SETTING METHODS

"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.

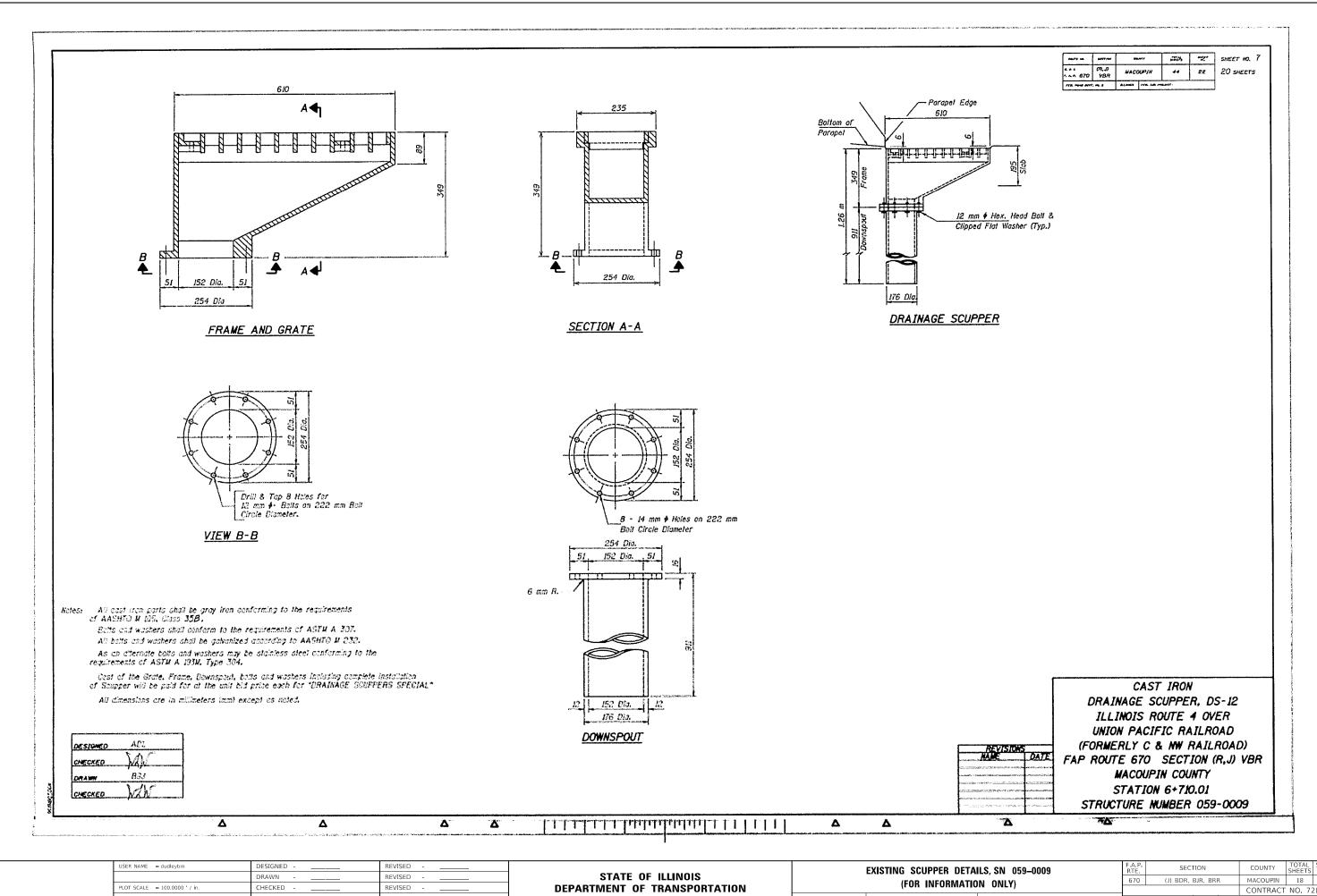
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLI	CER ASSEI	VIBLY AI	ND MEC	HANICAL SPLI	CER DETAILS	F.A RT
		CVI	059-000	na		67
		JII	033-000	JJ		
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