

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

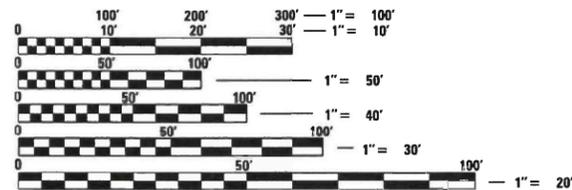
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	1
		ILLINOIS	CONTRACT NO. 72L97	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, COMMITMENTS, BENCHMARKS, MIX DESIGNS & SIGNATURES
- 3-4 SUMMARY OF QUANTITIES
- 5 SCHEDULE OF QUANTITIES
- 6-7 TYPICAL SECTIONS
- 8 ROADWAY PLAN
- 9 GUARDRAIL PLAN
- 10 STAGING PLAN
- 11-17 BRIDGE PLANS
- 18 DETAILS

HIGHWAY STANDARDS

000001-07	701301-04
001001-02	701321-18
606001-07	701901-08
630001-12	704001-08
630301-09	725001-01
631031-16	780001-05
642001-02	781001-04
701001-02	782006-01
701006-05	701201-05
	701326-04



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 EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JON KELLEY 217-785-2739  
PROJECT MANAGER: ED KERN 217-524-7547

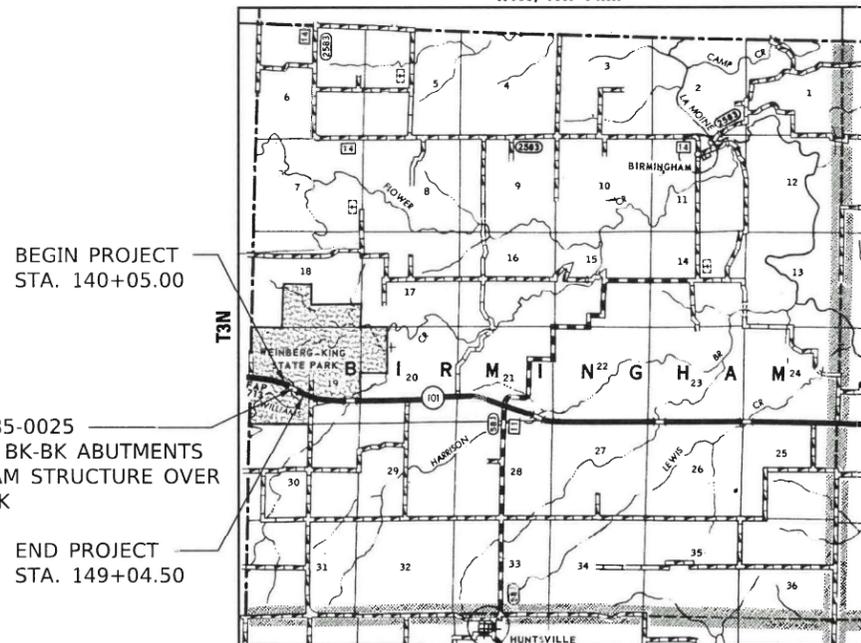
CONTRACT NO. 72L97

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 713 (IL 101)  
SECTION 119(BDR)  
PROJECT STP-2FDV(944)  
BRIDGE DECK OVERLAY  
SCHUYLER COUNTY

C-96-095-20

R4W, 4TH P.M.



BEGIN PROJECT STA. 140+05.00

EXISTING SN 085-0025  
3 SPAN 147'-5" BK-BK ABUTMENTS  
W24 STEEL BEAM STRUCTURE OVER  
WILLIAMS CREEK

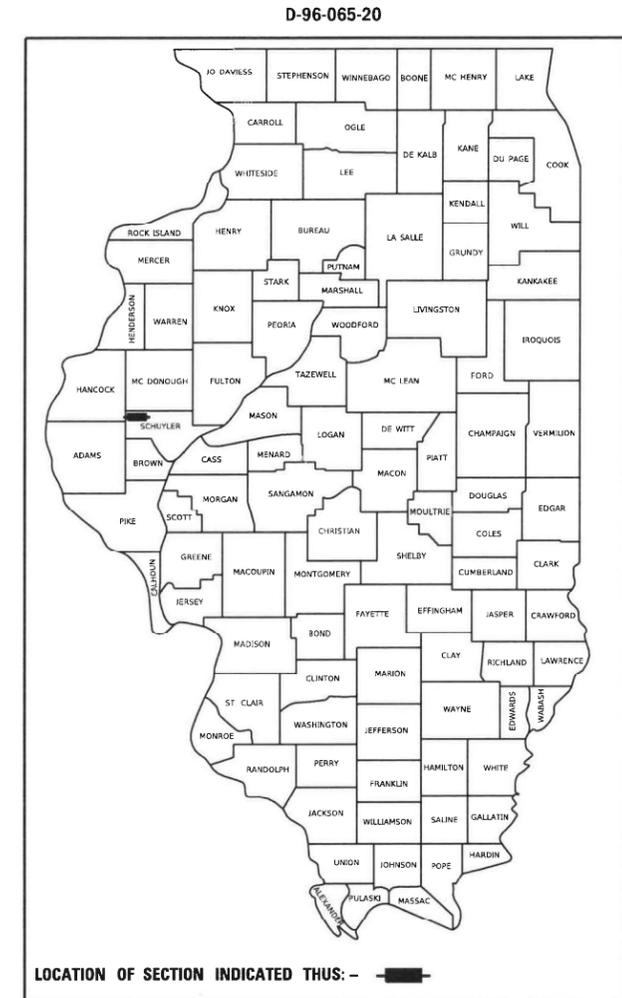
END PROJECT STA. 149+04.50



DATE: 8/17 20 20  
EXPIRES: 11/30 20 21



KUHN & TRELLO  
CONSULTING ENGINEERS  
A Limited Liability Company  
109 N. 2nd Street, 3rd Floor  
Springfield, IL 62701  
Phone: 217-529-0244  
Professional Design Firm No. 584-006516



LOCATION OF SECTION INDICATED THUS: - [black bar] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 17 20 20

*John P. Myer* REGIONAL ENGINEER

October 2, 2020

*Scott E. A. Eck* ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2020

*James J. ...* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GROSS LENGTH = 899.50 FT. = 0.170 MILE  
NET LENGTH = 899.50 FT. = 0.170 MILE

**GENERAL NOTES**

- ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.
- UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:
 

BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQ FT (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LBS/SQ FT (ON AGGREGATE)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQ FT (FOG)
HOT-MIX ASPHALT MATERIAL	0.056 TON/SQ YD PER 1"
AGGREGATE MATERIAL	1.60 TONS/CU YD
- AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.
- THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION FOR APPROVAL TO THE RESIDENT ENGINEER BEFORE THIS PROJECT IS STARTED.
- IDOT DISTRICT 6 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT (217) 524-9161 FOR CONTROLLOER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.

**BENCHMARKS**

- BM 6 CHISELED [ ] ON E END OF CONC GUTTER ON N SIDE OF IL 101; APPROX 200' E OF COUNTY LINE SIGN  
STA. 112+04.30, 11.86' LT.  
ELEV. 664.66
- BM 7 CHISELED [ ] ON SW CORNER OF PARAPET WALL TO STRUCTURE #085-0025  
STA. 142+27.32, 18.09' RT.  
ELEV. 596.33

**COMMITMENTS**

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA BASE COURSE WIDENING	HMA SURFACE COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0	IL-9.5
FRICTION AGGREGATE:	N/A	MIX "C"
QUALITY MANAGEMENT:	QC/QA	QC/QA

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**

EXAMINED <u>August 11</u> 20 <u>20</u>  ENGINEER OF OPERATIONS
EXAMINED <u>August 11</u> 20 <u>20</u>  ENGINEER OF PROJECT IMPLEMENTATION
EXAMINED <u>August 10</u> 20 <u>20</u>  ENGINEER OF PROGRAM DEVELOPMENT



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, COMMITMENTS, BENCHMARKS, MIX DESIGNS, SIGNATURES**

**FAP 713 (IL 101)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	2
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80 FED / 20 ST
				BRIDGE
				0059 S.N. 085-0025
20200500	EARTH EXCAVATION (WIDENING)	CU YD	59	59
35650300	BASE COURSE WIDENING 8"	SQ YD	300	300
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	532	532
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	374	374
40600990	TEMPORARY RAMP	SQ YD	76	76
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	129	129
44000100	PAVEMENT REMOVAL	SQ YD	48	48
44000400	GUTTER REMOVAL	FOOT	780	780
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	11
50102400	CONCRETE REMOVAL	CU YD	9.9	9.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11	11
50300260	BRIDGE DECK GROOVING	SQ YD	473	473
50300300	PROTECTIVE COAT	SQ YD	25	25
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1440	1440

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80 FED / 20 ST
				BRIDGE
				0059 S.N. 085-0025
50800515	BAR SPLICERS	EACH	28	28
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68	68
60260500	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	1	1
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	780	780
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	137.5	137.5
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	825	825
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	1362.5	1362.5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMAR OF QUANTITIES  
FAP 713 (IL 101)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	3
CONTRACT NO. 72L97			ILLINOIS FED. AID PROJECT	

CONSTR. CODE

80 FED / 20 ST

BRIDGE

0059

S.N. 085-0025

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
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	120	120
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	40	40
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1296	1296
70400100	TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1965	1965
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	33	33

\* SPECIALTY ITEM

CONSTR. CODE

80 FED / 20 ST

BRIDGE

0059

S.N. 085-0025

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	487	487
X6050500	REMOVE FRAME AND GRATES, SPECIAL	EACH	5	5
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	35	35
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	497	497
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	497	497
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	47	47
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	35	35

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMAR OF QUANTITIES  
 FAP 713 (IL 101)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	4

CONTRACT NO. 72L97

ILLINOIS FED. AID PROJECT

PAVING SCHEDULE						
LOCATION			40600290	40600982	40600990	40604050
STATION	TO	STATION	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURF. REMOVAL - BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50
			POUND	SQ YD	SQ YD	TON
140+05	-	140+11			16	
140+05	-	140+75		187		
140+05	-	141+95	256			62
141+89	-	141+95			22	
141+89	-	144+11			22	
144+05	-	146+10	276			67
145+40	-	146+10		187		
146+04	-	146+10			16	
TOTALS			532	374	76	129

SHOULDER AND GUTTER SCHEDULE												
LOCATION			20200500	35650300	44000100	44000400	48102100	60260500	60604400	X6050500		
STATION	TO	STATION	EARTH EXCAVATION (WIDENING)	BASE COURSE WIDENING, 8"	PAVEMENT REMOVAL	GUTTER REMOVAL	AGGREGATE WEDGE SHLDS, TYPE B	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	REMOVE FRAME AND GRATES, SPECIAL		
			CU YD	SQ YD	SQ YD	FOOT	TON	EACH	FOOT	EACH		
140+05	RT	-	141+95	RT	13	62	190	3	190			
140+15	LT	-	141+95	LT	15	80	180	2	180			
141+85	LT & RT				23					2		
144+05	LT	-	146+10	LT	17	91	205	3	205			
144+05	RT	-	146+10	RT	14	67	205	3	205			
144+15	LT & RT									2		
145+32	RT	-						1		1		
TOTALS					59	300	48	780	11	1	780	5

NOTE: PAVEMENT REMOVAL IS PARTIAL REMOVAL OF BASE COURSE WIDENING INSTALLED IN PRE-STAGE.

PAVEMENT MARKING SCHEDULE									
LOCATION			78001120	78100100	78300200				
STATION	TO	STATION	PAINT PAVEMENT MARKING - LINE 5"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL				
			TYPE	COLOR	FOOT	EACH	EACH		
140+05	RT	-	146+10	RT	SOLID EDGE LINE	WHITE	605		
140+05	CL	-	145+70	CL	SOLID NO PASS (WB)	YELLOW	605		
140+05	CL	-	145+70	CL	SKIP DASH (EB)	YELLOW	150		
140+50	LT	-	146+10	LT	SOLID EDGE LINE	WHITE	605		
140+52								1	1
141+32								1	1
144+52								1	1
145+32								1	1
TOTALS							1,965	4	4

GUARDRAIL SCHEDULE									
LOCATION			63000001	63000003	63100085	63100167	63200310	72501000	78200005
STATION	TO	STATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
			FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH
140+20.5	RT	-	140+70.5	RT			1	50.0	1
140+70.5	RT	-	141+58.0	RT	87.5			87.5	
140+58.0	LT	-	141+08.0	LT			1	50.0	1
141+08.0	LT	-	141+58.0	LT	50.0			50.0	
140+96.0	RT								1
141+33.5	LT & RT								2
141+58.0	RT	-	141+97.4	RT		1			
141+58.0	LT	-	141+97.4	LT		1			
141+58.0	RT	-	142+08.0	RT				50.0	
141+58.0	LT	-	142+08.0	LT				50.0	
141+71.0	LT & RT								2
141+94.0	LT & RT								2
143+92.0	RT	-	144+42.0	RT				50.0	
143+92.0	LT	-	144+42.0	LT				50.0	
144+02.6	RT	-	144+42.0	RT		1			
144+02.6	LT	-	144+42.0	LT		1			
144+06.0	LT & RT								2
144+29.0	LT & RT								2
144+42.0	RT	-	148+54.5	RT				412.5	
144+42.0	LT	-	148+54.5	LT				412.5	
144+66.5	LT & RT								2
145+04.0	LT & RT								2
145+41.5	LT & RT								2
145+79.0	LT & RT								2
146+16.5	LT & RT								2
146+54.0	LT & RT								2
146+91.5	LT & RT								2
147+29.0	LT & RT								2
147+66.5	LT & RT								2
148+04.0	LT & RT								2
148+41.5	LT & RT								2
148+54.5	RT	-	149+04.5	RT		1		50.0	1
148+54.5	LT	-	149+04.5	LT		1		50.0	1
TOTALS			137.5	825.0	4	4	1362.5	4	33

SHORT TERM PAVEMENT MARKING SCHEDULE					
LOCATION			70300100	70300150	
STATION	TO	STATION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	
			FOOT	SQ FT	
140+05	-	146+10	2	120	40
TOTALS				120	40

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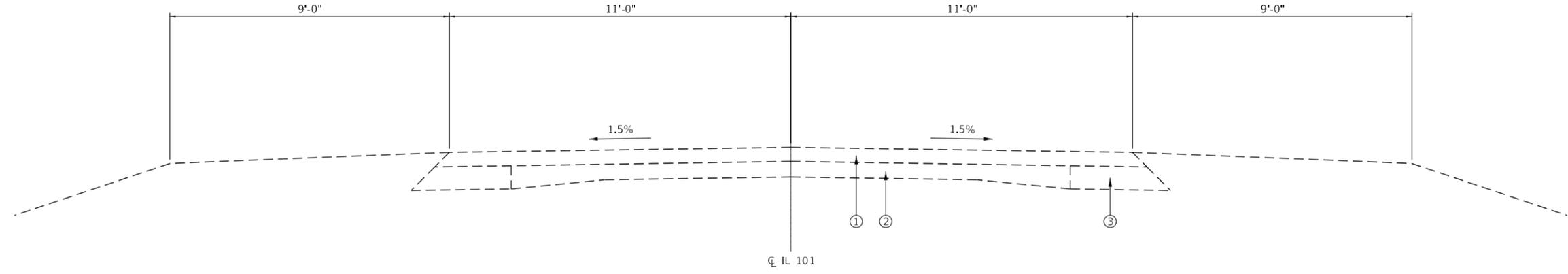
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 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
 FAP 713 (IL 101)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	5
CONTRACT NO. 72L97				

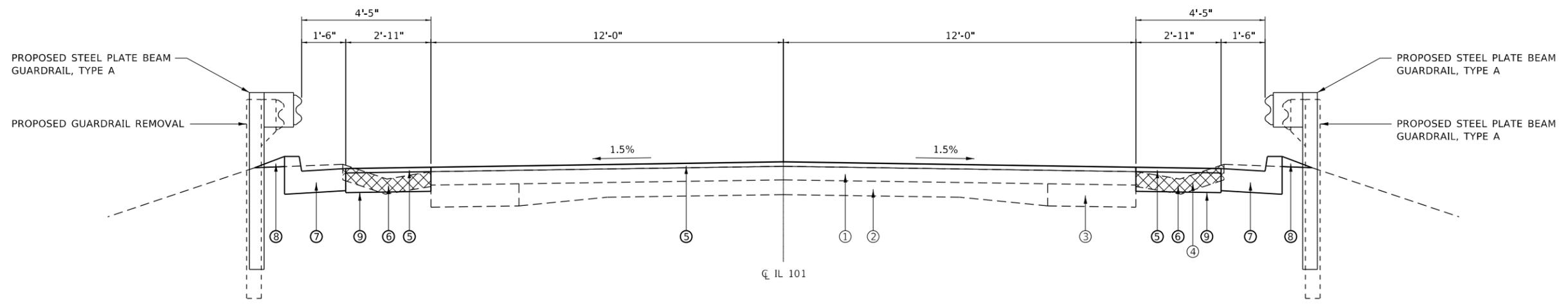
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ILLINOIS FED. AID PROJECT



LT. STA. 139+90 TO STA. 140+15  
 RT. STA. 139+90 TO STA. 140+05

- ① EXISTING HOT-MIX ASPHALT OVERLAYS, ±5.5"
- ② EXISTING CONCRETE PAVEMENT
- ③ EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- ④ EXISTING CONCRETE GUTTER, TYPE A
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N50 (1¾")
- ⑥ PROPOSED GUTTER REMOVAL
- ⑦ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑧ PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑨ PROPOSED BASE COURSE WIDENING, 8"



RT. STA. 140+05 TO STA. 141+95.04 \*  
 LT. STA. 140+15 TO STA. 141+95.04 \*  
 STA. 144+04.96 TO STA. 149+20

BRIDGE OMISSION  
 STA. 142+27.04 TO STA. 143+72.96

\* BRIDGE APPROACH PAVEMENT  
 STA. 141+95.04 TO STA. 142+27.04  
 STA. 143+72.96 TO STA. 144+04.96

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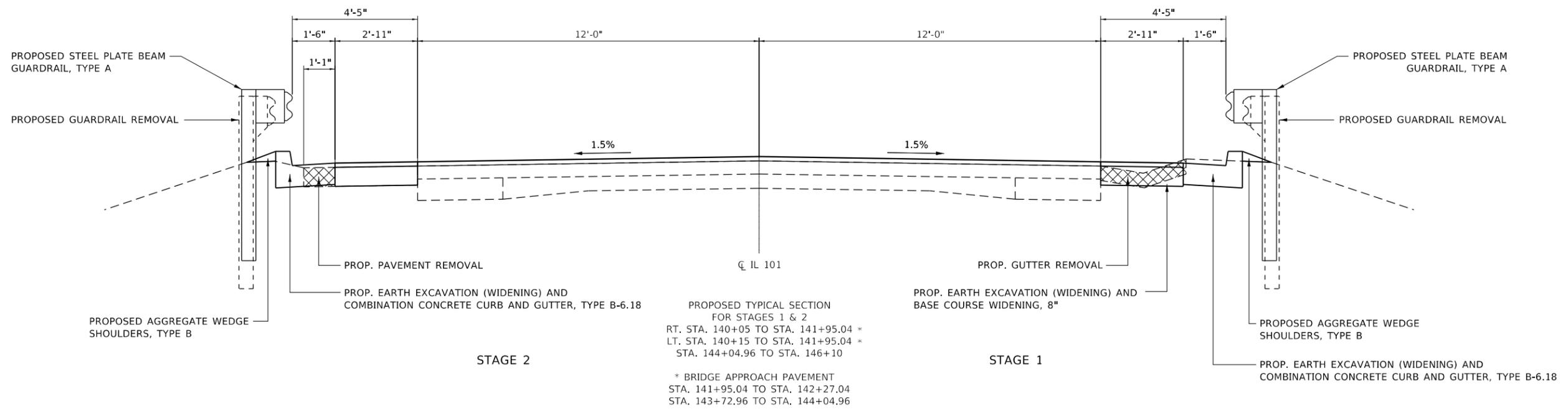
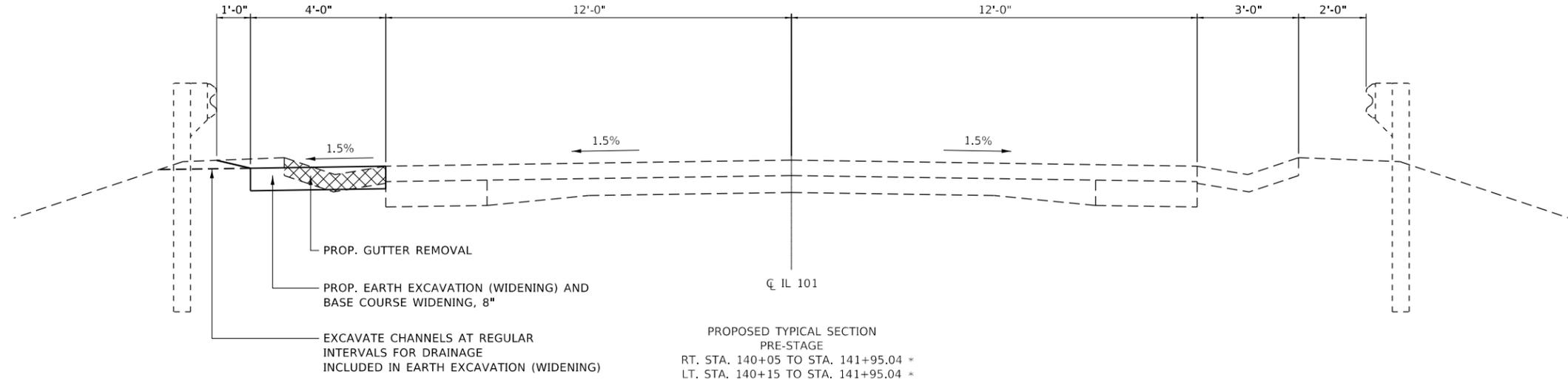


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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
<b>FAP 713 (IL 101)</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72L97	



NOTE: EARTH EXCAVATION REQUIRED FOR CONSTRUCTION OF COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 SHALL BE MEASURED AND PAID FOR AS EARTH EXCAVATION (WIDENING).

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS - STAGING  
FAP 713 (IL 101)

SCALE: SHEET OF SHEETS STA. TO STA.

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713	119(BDR)	SCHUYLER	18	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72L97	

①, ② REMOVE FRAME AND GRATES, SPECIAL

③ REMOVE FRAME AND GRATES, SPECIAL  
PROP. INLETS TO BE ADJUSTED WITH  
NEW TYPE 3 FRAME & GRATE

④ & ⑤ PROP. AGGREGATE WEDGE  
SHOULDERS, TYPE B

⑥ 25' TRANSITION LT. & RT. FROM PROP. COMB.  
CONC. CURB AND GUTTER, TYPE B-6.18 TO  
EXISTING CONCRETE GUTTER, TYPE A

PROP. GUTTER REMOVAL  
PROP. COMBINATION CONCRETE  
CURB AND GUTTER, TYPE B-6.18  
PROP. EARTH EXCAVATION (WIDENING)  
PROP. BASE COURSE WIDENING, 8"

STA. 142+27.19  
END OF DECK

STA. 141+95.04  
END OF CONC.  
APPROACH PAVEMENT

PROP. AGGREGATE  
WEDGE SHOULDERS,  
TYPE B

SEE BRIDGE SHEETS FOR DECK REPAIR DETAILS

STA. 143+72.81  
END OF DECK

STA. 144+04.96  
END OF CONC.  
APPROACH PAVEMENT

PROP. GUTTER REMOVAL  
PROP. COMBINATION CONCRETE  
CURB AND GUTTER, TYPE B-6.18  
PROP. EARTH EXCAVATION (WIDENING)  
PROP. BASE COURSE WIDENING, 8"



CURB OUTLET  
(SEE DETAILS, SHEET 18 )

STA. 141+95.04  
END OF CONC.  
APPROACH PAVEMENT

PROP. AGGREGATE  
WEDGE SHOULDERS,  
TYPE B

LEGEND

- APPROACH SLAB REPAIR (PARTIAL DEPTH)
- GUTTER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

CURB OUTLET  
(SEE DETAILS, SHEET 18 )

STA. 140+05.00  
BEGIN IMPROVEMENTS

PROP. AGGREGATE  
WEDGE SHOULDERS,  
TYPE B

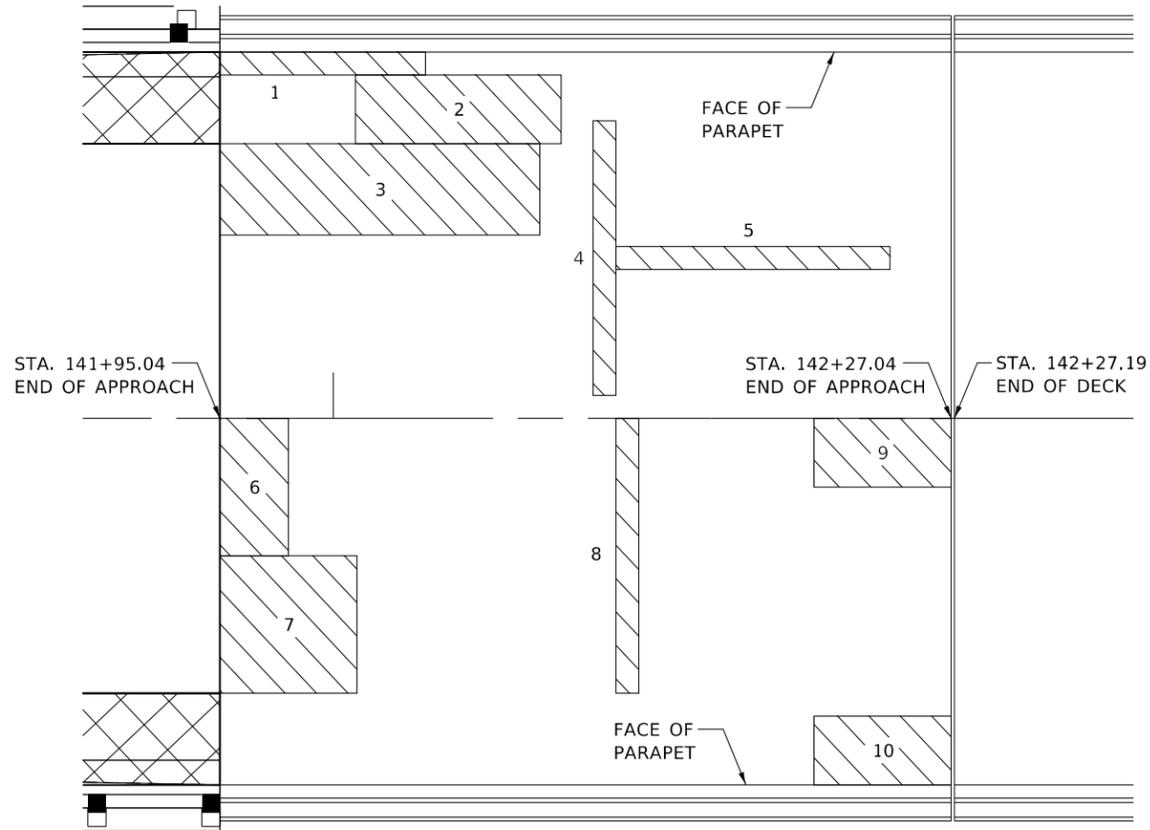
SEE DETAIL "A" THIS SHEET  
FOR WEST APPROACH SLAB REPAIR  
STA. 141+95.04 TO STA. 142+27.04

SEE DETAIL "B" THIS SHEET  
FOR EAST APPROACH SLAB REPAIR  
STA. 143+72.96 TO STA. 144+04.96

STA. 146+10  
END PAVING

PROP. GUTTER REMOVAL  
PROP. COMBINATION CONCRETE  
CURB AND GUTTER, TYPE B-6.18  
PROP. EARTH EXCAVATION WIDENING  
PROP. BASE COURSE WIDENING, 8"

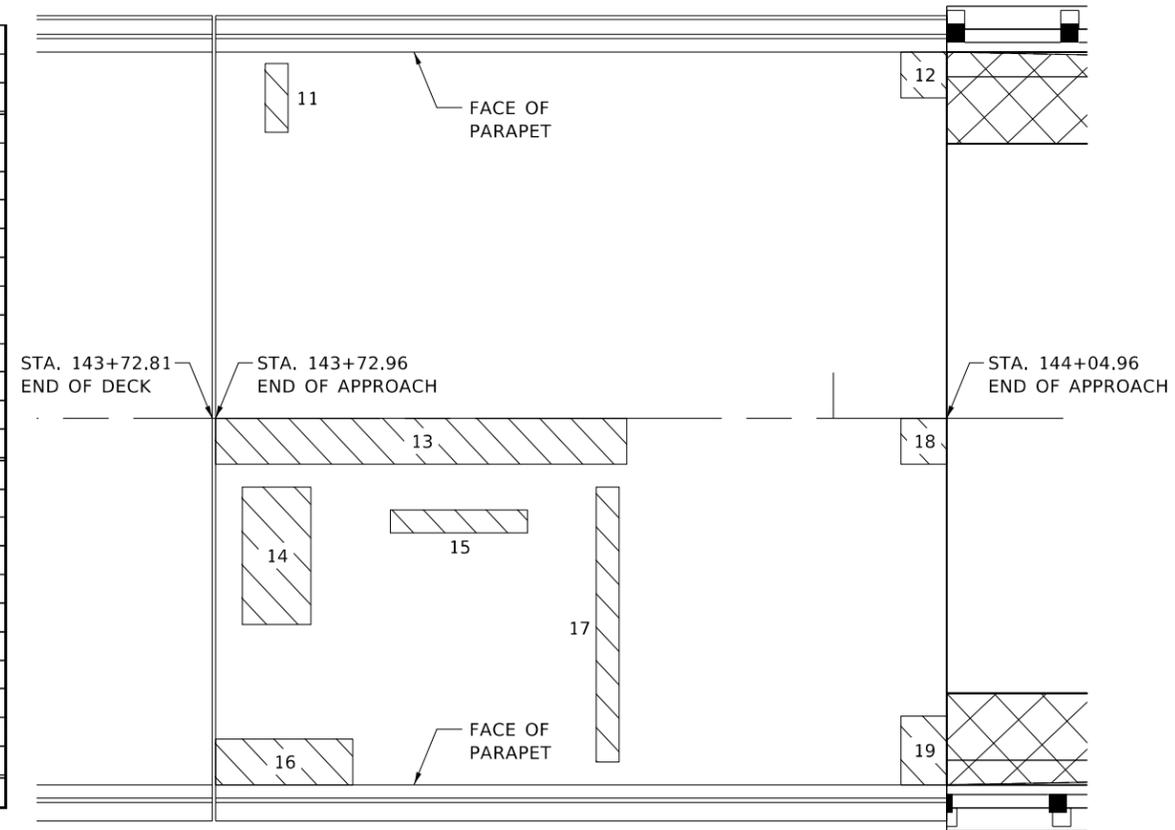
PROP. GUTTER REMOVAL  
PROP. COMBINATION CONCRETE  
CURB AND GUTTER, TYPE B-6.18  
PROP. EARTH EXCAVATION (WIDENING)  
PROP. BASE COURSE WIDENING, 8"



DETAIL "A"  
WEST APPROACH PAVEMENT PATCHING

APPROACH SLAB REPAIR (PARTIAL DEPTH)				
PATCH NUMBER	LENGTH	WIDTH	AREA	
			(SQ FT)	(SQ YD)
<b>WEST APPROACH</b>				
1	9.0	1.0	9.0	1.0
2	9.0	3.0	27.0	3.0
3	14.0	4.0	56.0	6.2
4	1.0	12.0	12.0	1.3
5	12.0	1.0	12.0	1.3
6	3.0	6.0	18.0	2.0
7	6.0	6.0	36.0	4.0
8	1.0	12.0	12.0	1.3
9	6.0	3.0	18.0	2.0
10	6.0	3.0	18.0	2.0
<b>EAST APPROACH</b>				
11	1.0	3.0	3.0	0.3
12	2.0	2.0	4.0	0.4
13	18.0	2.0	36.0	4.0
14	3.0	6.0	18.0	2.0
15	6.0	2.0	12.0	1.3
16	6.0	1.0	6.0	0.7
17	1.0	12.0	12.0	1.3
18	2.0	2.0	4.0	0.4
19	2.0	3.0	6.0	0.7
TOTAL			35.2	

NOTE: REPAIR AREAS ARE FOR INFORMATION ONLY.



DETAIL "B"  
EAST APPROACH PAVEMENT PATCHING

MODEL: D:\p1\1113040.05 IDOT D6 - PTB 187-011 - W05 - IL 101 over Williams Creek\CADD\Drawings\B72197-2ht-plans01.dgn



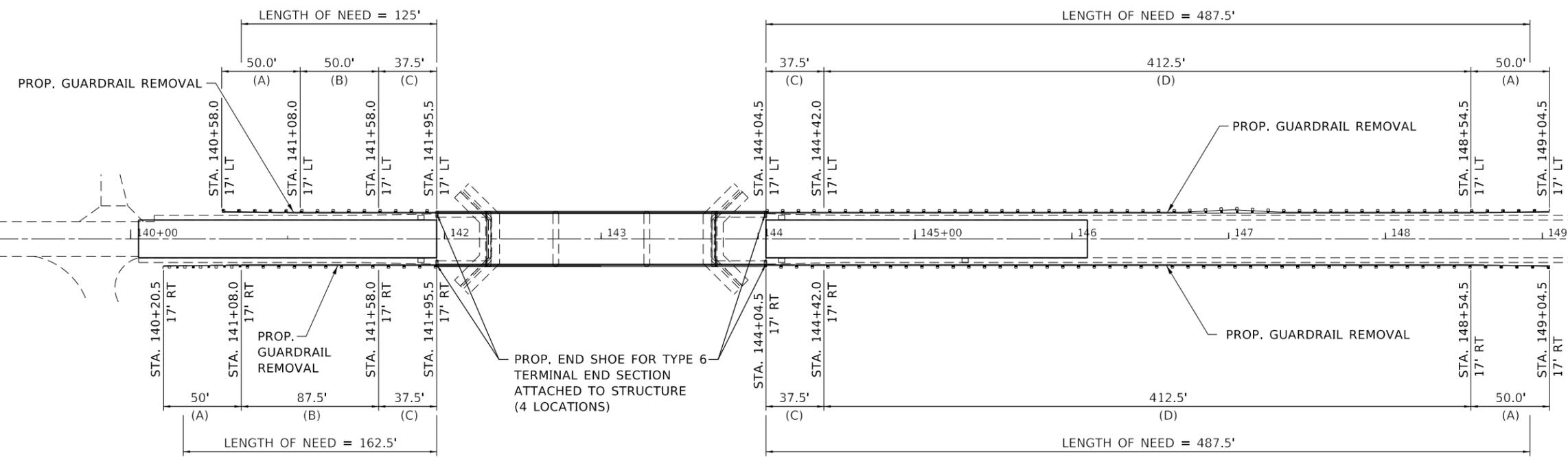
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PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/14/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN  
FAP 713 (IL 101)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 713	SECTION 119(BDR)	COUNTY SCHUYLER	TOTAL SHEETS 18	SHEET NO. 8
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				



- (A) = PAY LIMITS FOR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) = PAY LIMITS FOR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (C) = PAY LIMITS FOR TRAFFIC BARRIER TERMINAL, TYPE 6
- (D) = PAY LIMITS FOR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS

MODEL: D:\p1\100400.05 IDOT D6 - PTB 187-011 - W05 - IL 101 over Williams Creek\CADD\Drawings\187-011-002.dgn  
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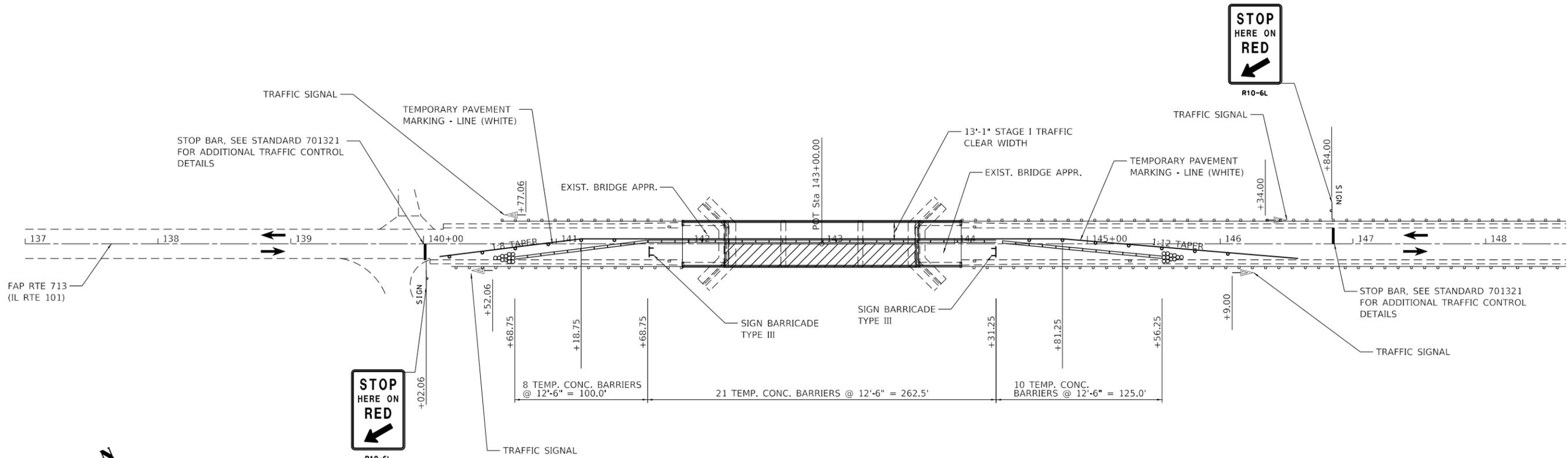
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	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL PLAN**  
**FAP 713 (IL 101)**

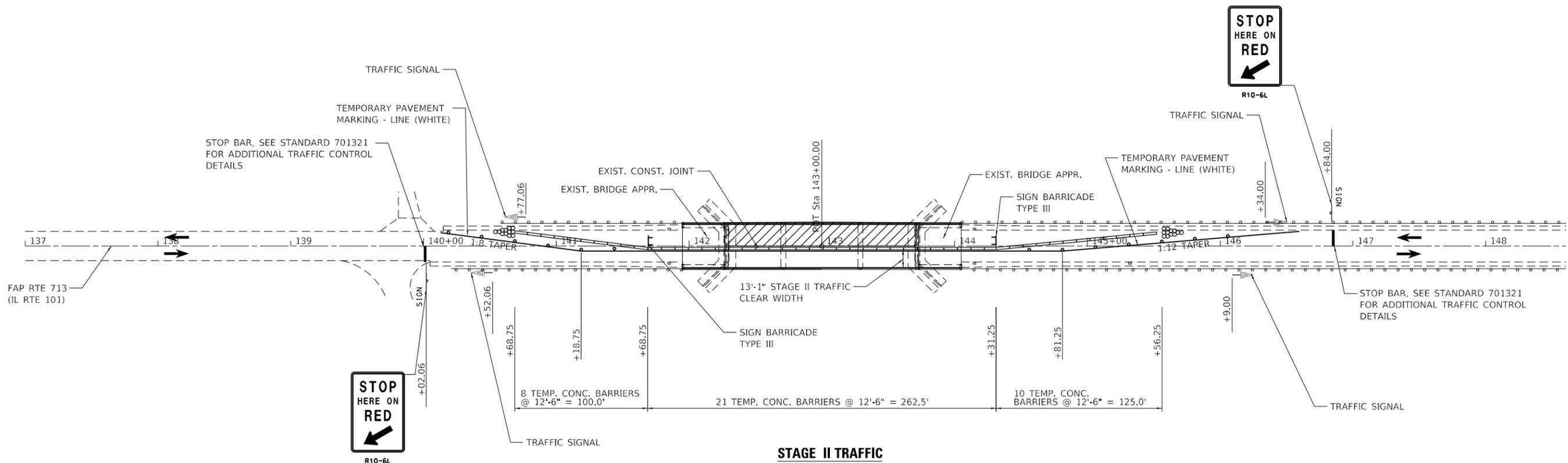
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	9
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				



**STAGE I TRAFFIC**

NOTE: REDUCE SPEED TO 35 MPH FOR BOTH STAGE 1 AND 2 DUE TO SHORTENED TAPER.



**STAGE II TRAFFIC**

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 MODEL: D:\efit\...  
 FILE NAME: PL\Effingham\2019 - PTB 187 - IDOT D61W0\_#35CADD\SHIET\0627187\_SHT Construction Stage2.dgn



**CIVIL DESIGN, INC.**  
 WBE / DBE  
 EFFINGHAM, IL  
 LICENSE # 184.003222

USER NAME = rhanfland	DESIGNED - WMK	REVISED -
PLOT SCALE = 80,0000 ' / in.	DRAWN - DMM	REVISED -
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	DATE - 8/14/2020	REVISED -

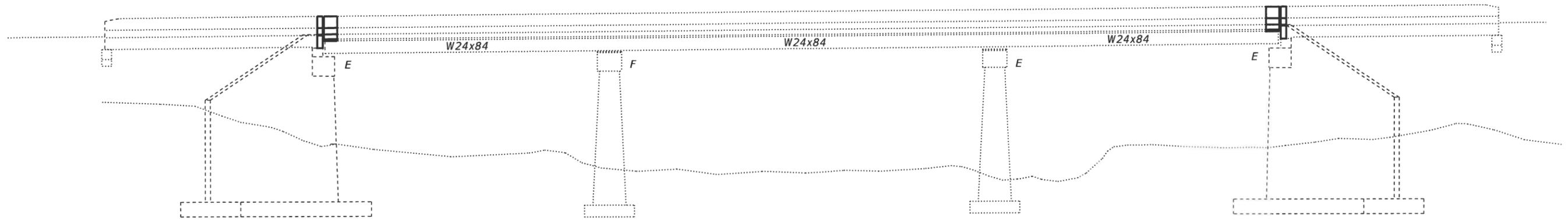
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DATE - 8/14/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

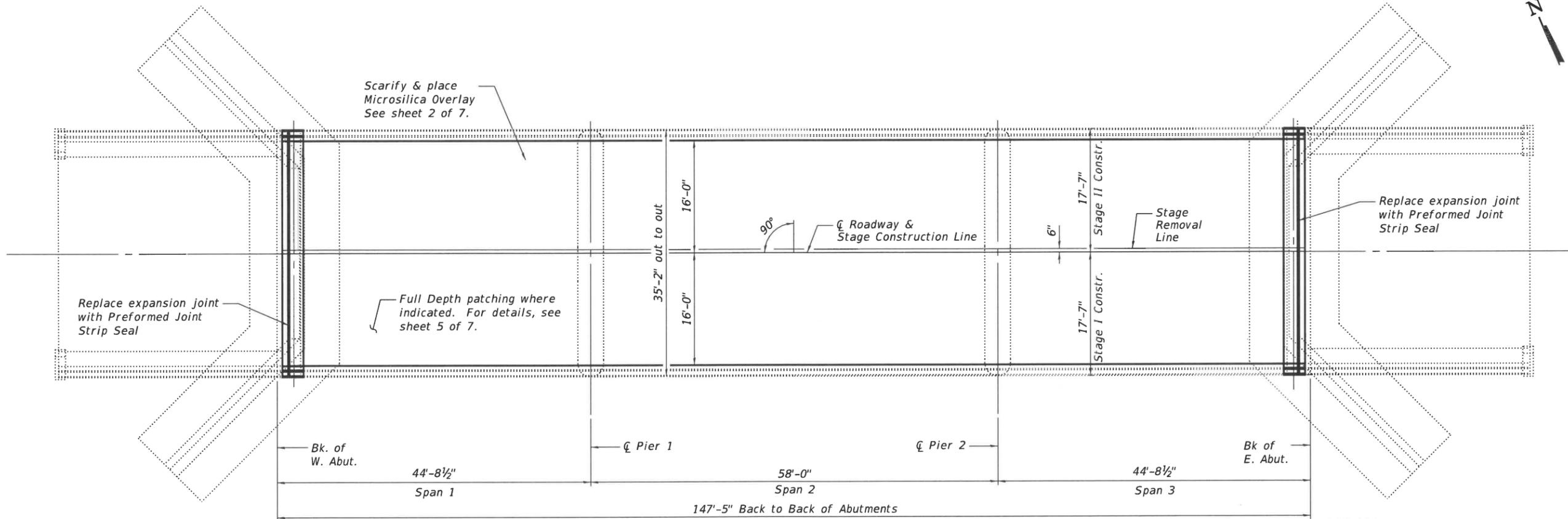
**STAGING PLAN**

SCALE: 80,0000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 713	SECTION (119) BDR	COUNTY SCHUYLER	TOTAL SHEETS 18	SHEET NO. 10
CONTRACT NO. 72L97			ILLINOIS FED. AID PROJECT	



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

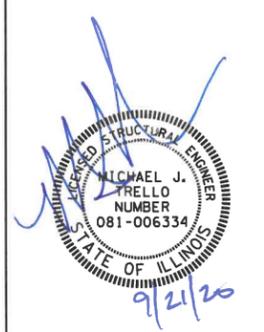
**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall 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.  
 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.  
 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° F.  
 Areas of deck slab repair shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built plans.

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	9.9
Concrete Superstructure	Cu. Yd.	11.0
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	497
Reinforcement Bars, Epoxy Coated	Pound	1440
Bar Splicers	Each	28
Bridge Deck Scarification, 3/4"	Sq. Yd.	497
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	35
Preformed Joint Strip Seal	Foot	68
Structural Repair of Concrete, Depth ≤5"	Sq. Ft.	47
Bridge Deck Grooving	Sq. Yd.	473
* Protective Coat	Sq. Yd.	25

\* On new deck surface & top & inside face of new parapet concrete only

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Expires: November 30, 2020



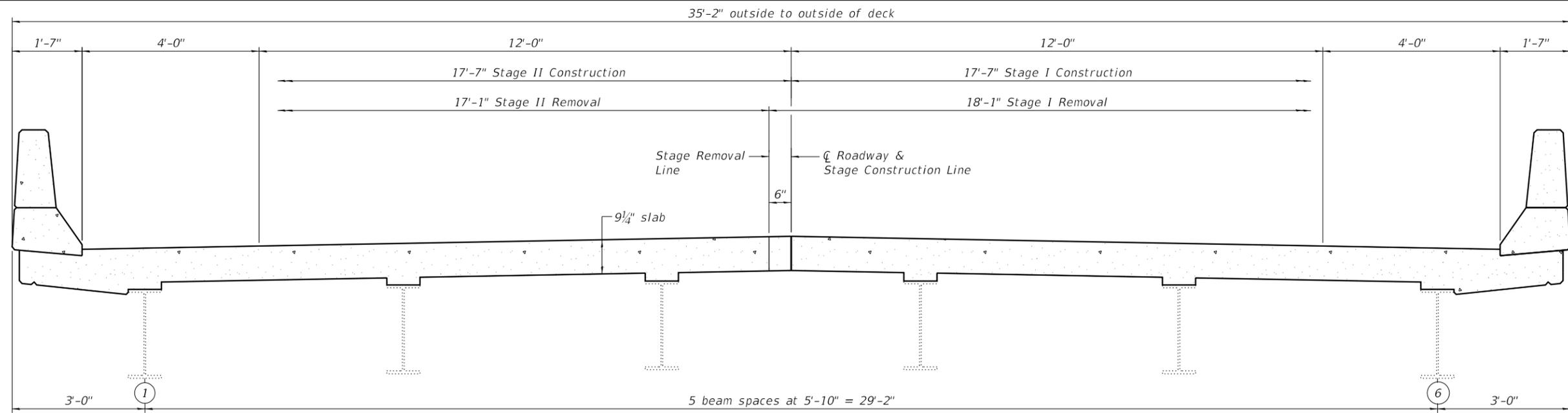
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

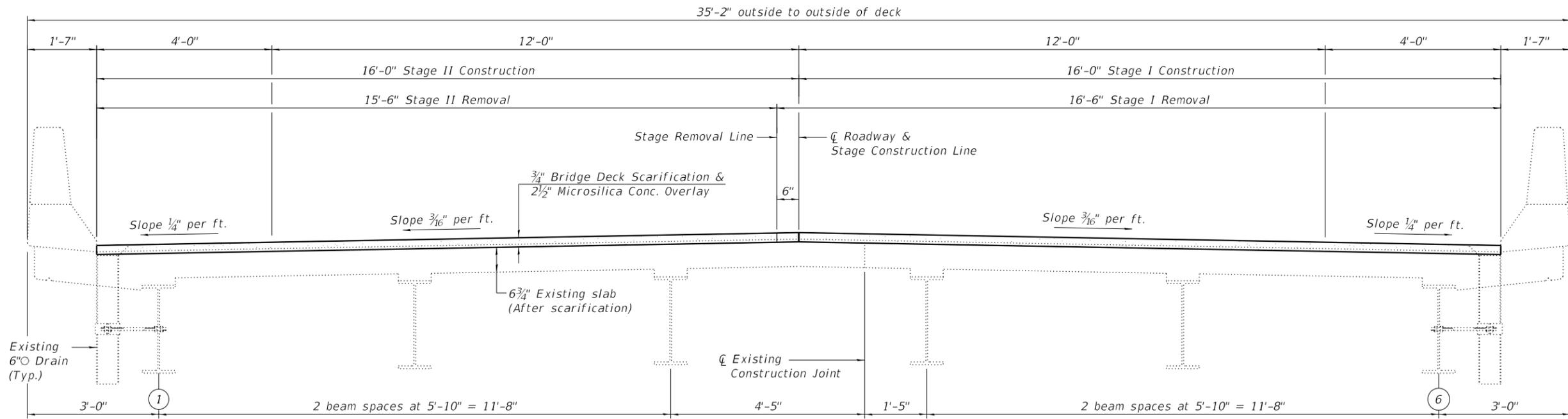
**GENERAL PLAN & ELEVATION  
 SN 085-0025**

SHEET 1 OF 7 SHEETS

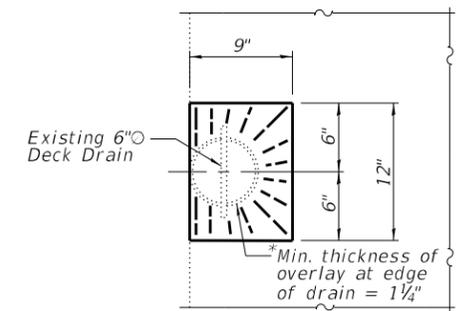
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	11
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				



**CROSS SECTION AT JOINT REPLACEMENT LOCATIONS**  
(Looking East)



**CROSS SECTION AT MID SPANS**  
(Looking East)



**OVERLAY TREATMENT AT DRAINS**

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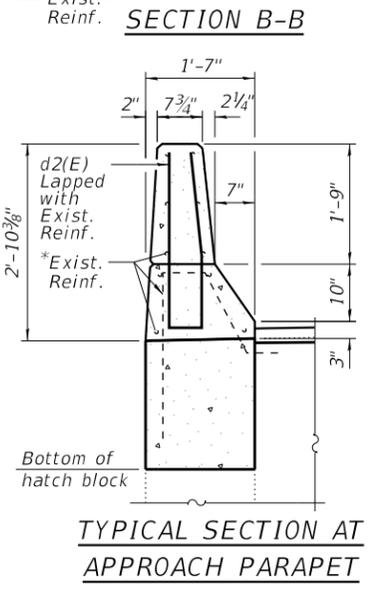
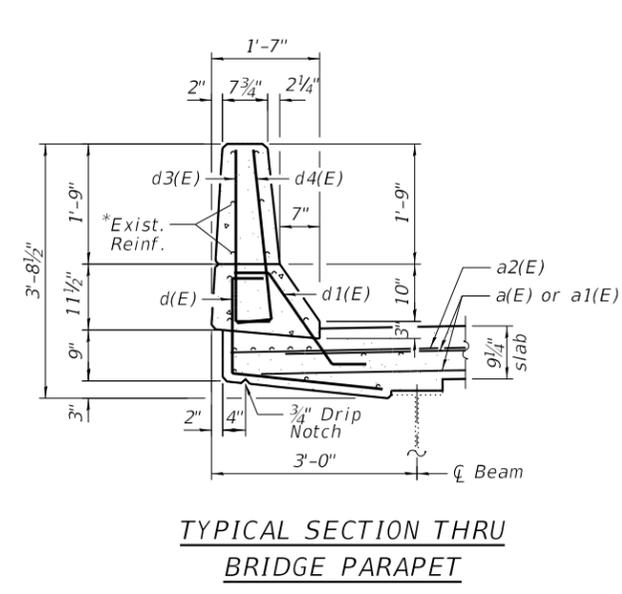
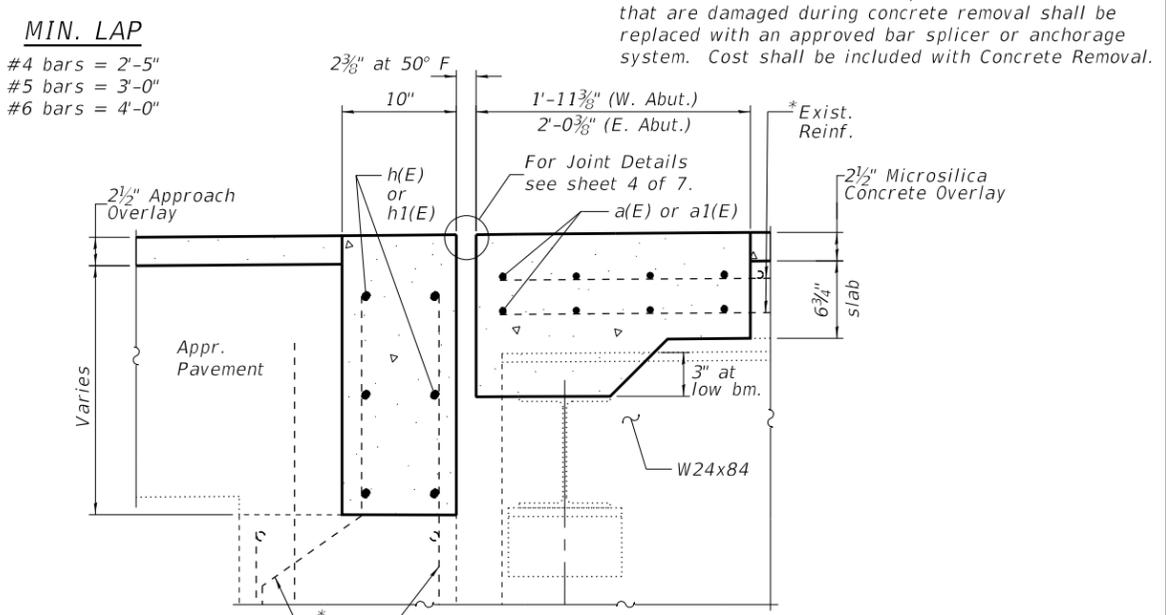
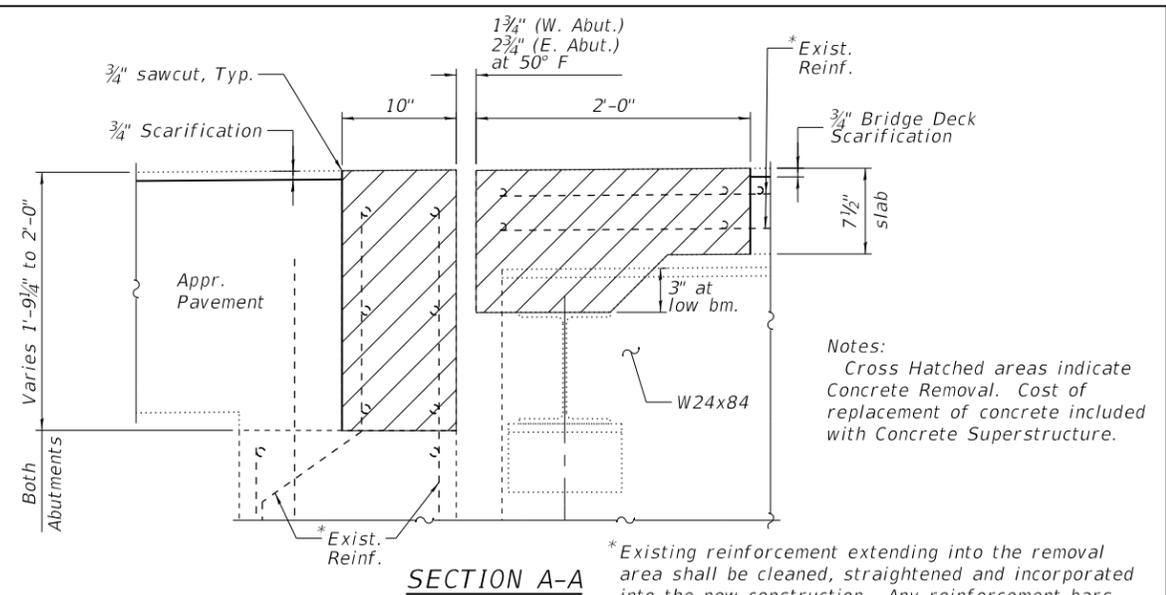
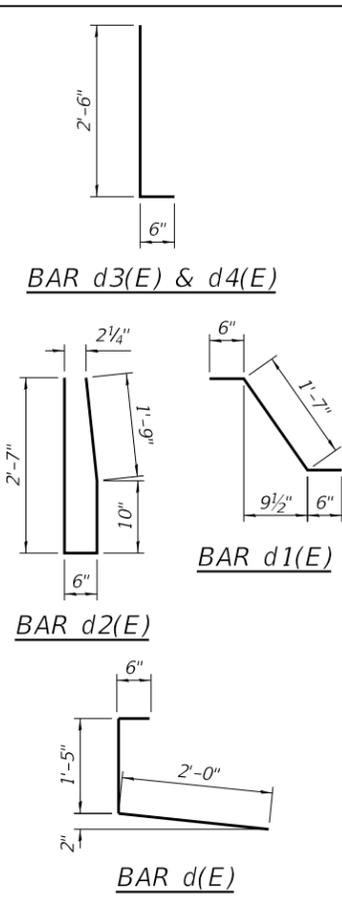
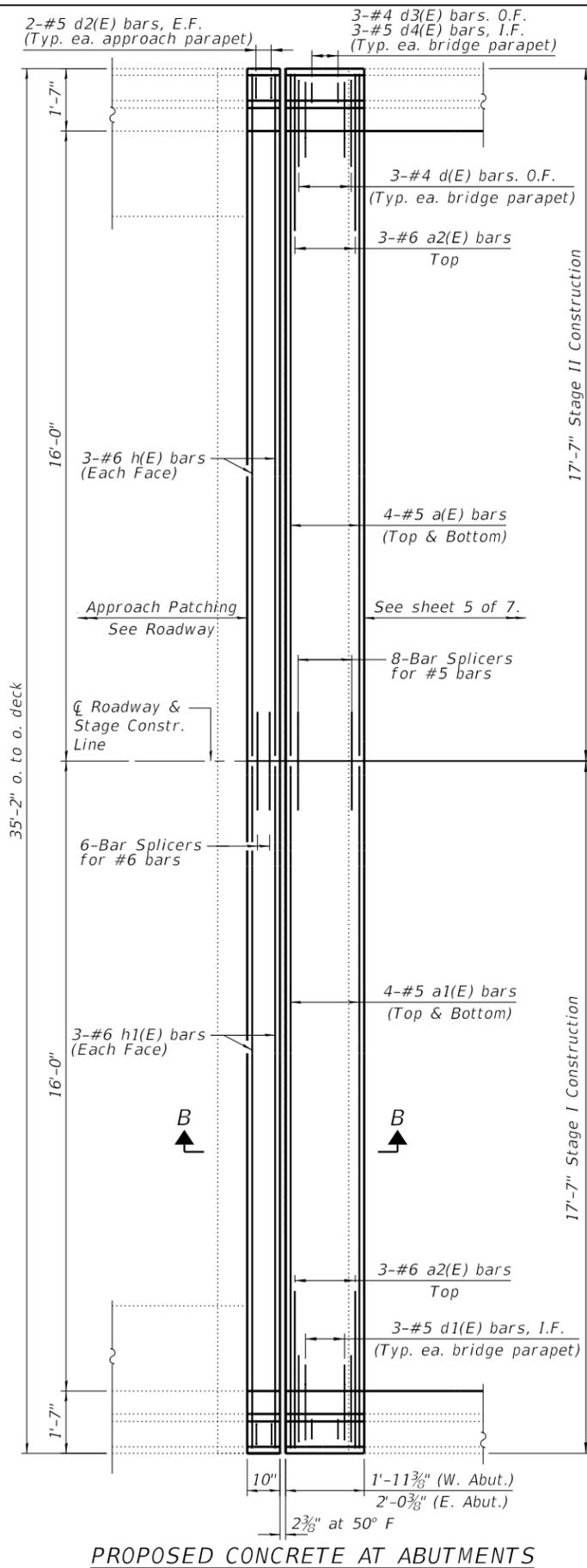
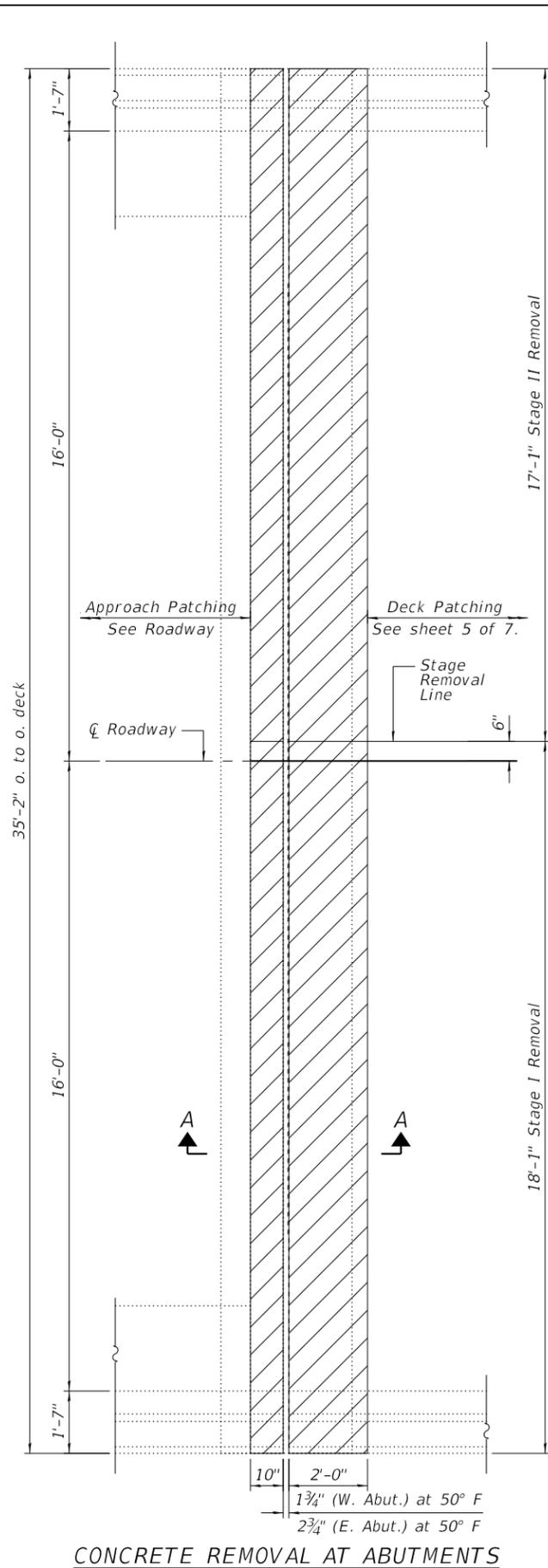
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS & CROSS SECTION  
SN 085-0025**

SHEET 2 OF 7 SHEETS

F.A.P. RTE. 713	SECTION 119(BDR)	COUNTY SCHUYLER	TOTAL SHEETS 18	SHEET NO. 12
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				

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**BILL OF MATERIAL  
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
a(E)	16	#5	17'-1"	—
a1(E)	16	#5	17'-1"	—
a2(E)	12	#6	4'-0"	—
d(E)	12	#4	3'-11"	┘
d1(E)	12	#5	2'-7"	┘
d2(E)	8	#5	5'-8"	┘
d3(E)	12	#4	3'-0"	┘
d4(E)	12	#5	3'-0"	┘
h(E)	12	#6	17'-3"	—
h1(E)	12	#6	17'-3"	—
Concrete Removal			Cu. Yd.	9.9
Concrete Superstructure			Cu. Yd.	11.0
Reinforcement Bars, Epoxy Coated			Pound	1440
Bar Splicers			Each	28



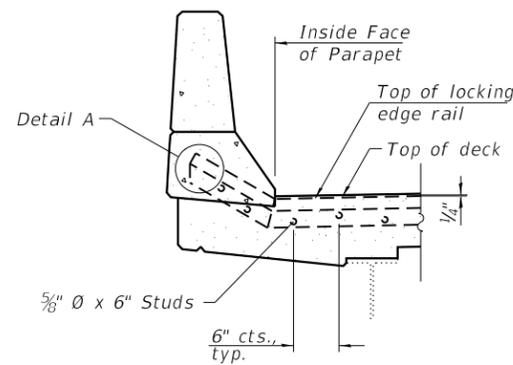
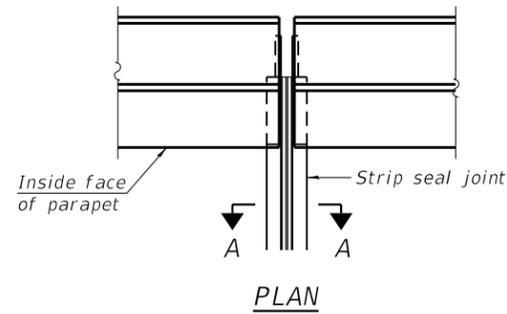
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

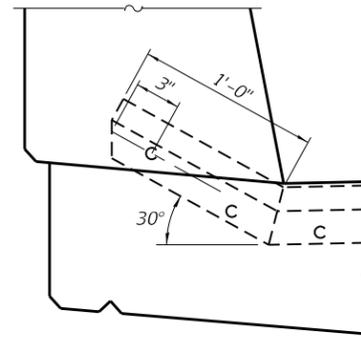
**JOINT REMOVAL & REPLACEMENT DETAILS AT ABUTMENTS  
SN 085-0025**

SHEET 3 OF 7 SHEETS

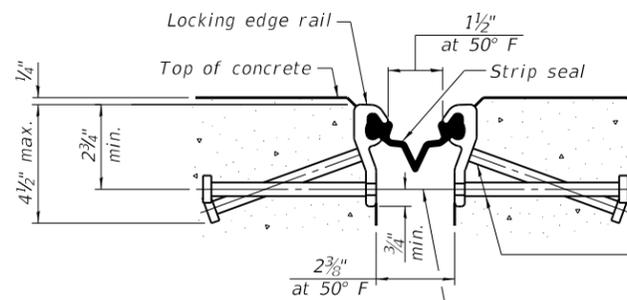
F.A.P. RTE. 713	SECTION 119(BDR)	COUNTY SCHUYLER	TOTAL SHEETS 18	SHEET NO. 13
CONTRACT NO. 72L97			ILLINOIS FED. AID PROJECT	



**SECTION AT PARAPET**  
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL A**



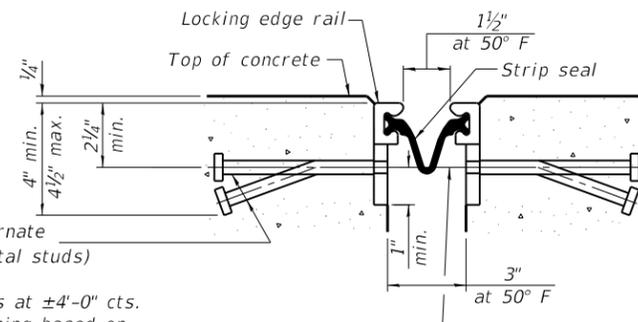
**SHOWING ROLLED RAIL JOINT**

\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

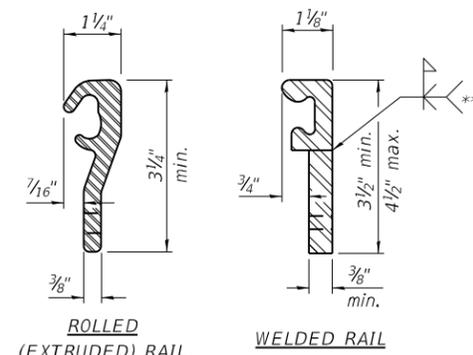
3/8" φ threaded rods in 7/16" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

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

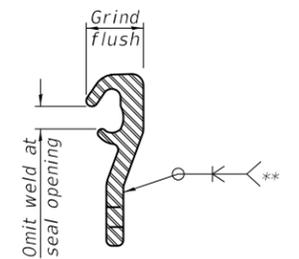


**SHOWING WELDED RAIL JOINT**



**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.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	68

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EJ-SS

1-1-2020



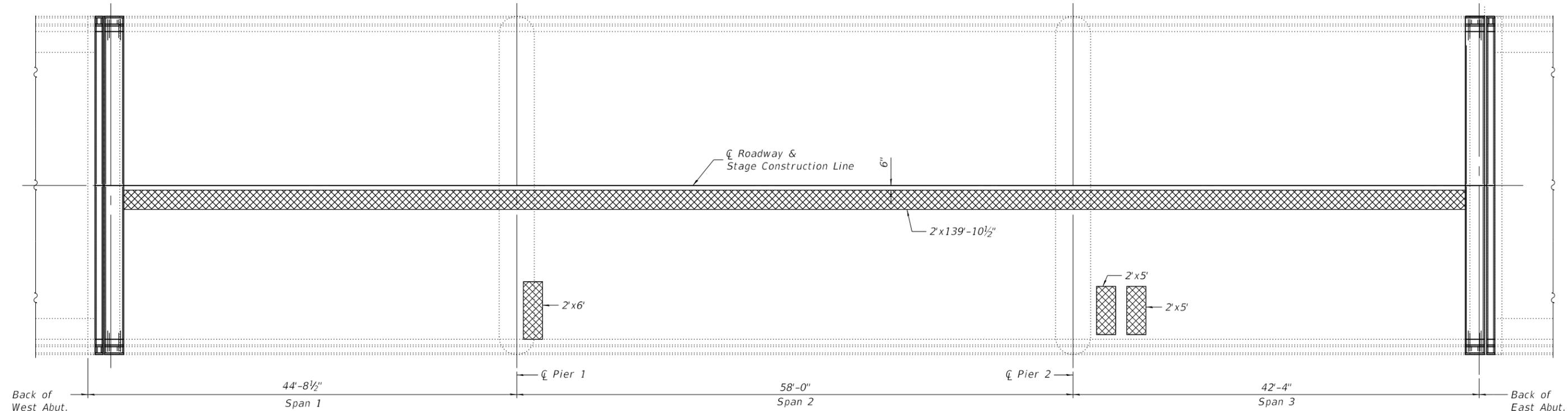
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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS  
SN 085-0025

SHEET 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	14
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				



**DECK PATCHING REPAIR PLAN**

Deck Slab Repair (Full Depth, Type II)



**SUPERSTRUCTURE  
BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	35

MODEL: Default  
FILE NAME: J:\18040.05 IDOT D6 - PTB 187-011 - W05 - IL 101 over Williams Creek\CADData\CADsheets\0850025-72L97-005-SlabRepair.dgn  
8/14/2020 1:42:14 PM

**KT**  
**KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 100 N. 7th Street, 3rd Floor  
 Springfield, IL 62702  
 Phone: 217-628-0044  
 Professional Design Firm No. 284-006516

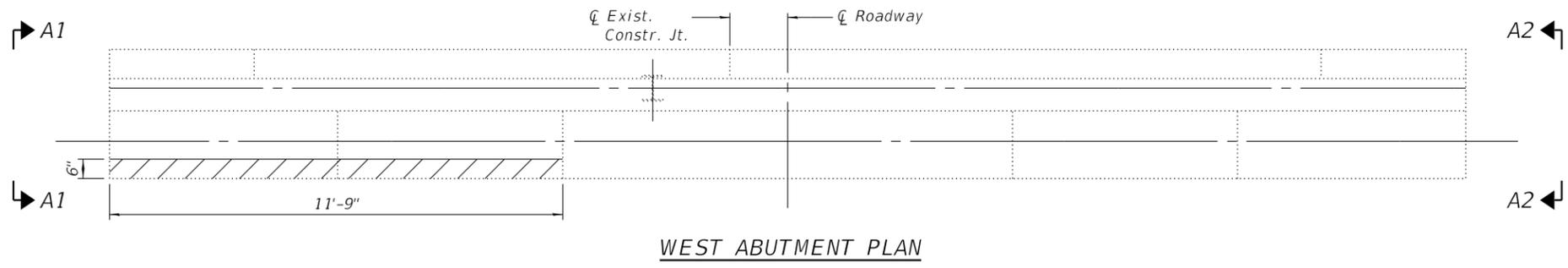
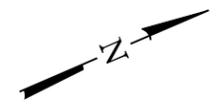
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

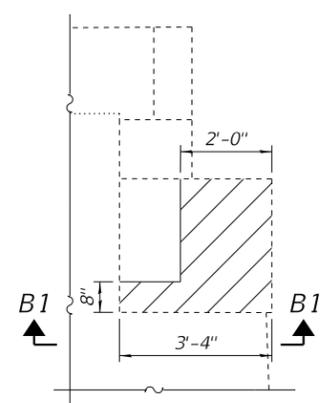
**DECK SLAB REPAIR DETAILS  
SN 085-0025**

SHEET 5 OF 7 SHEETS

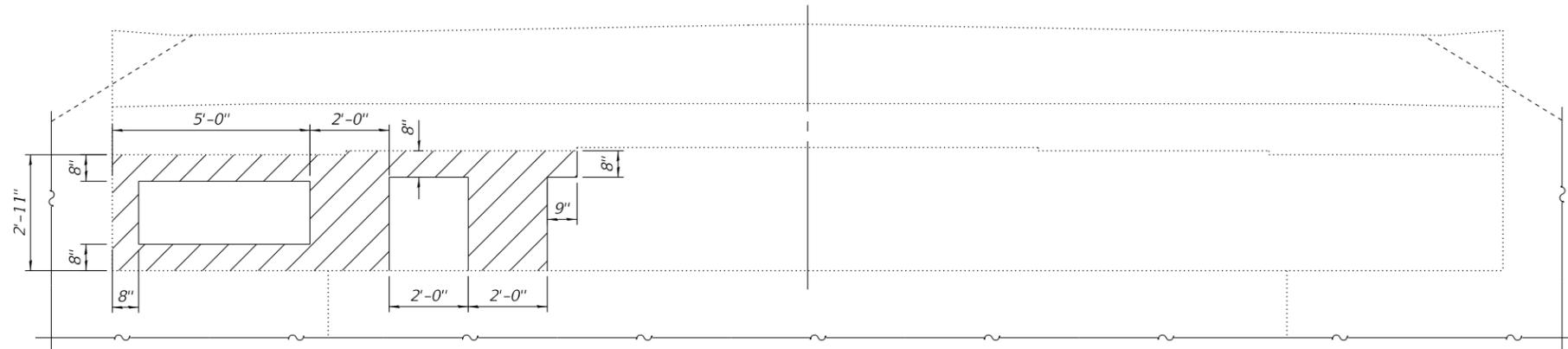
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713	119(BDR)	SCHUYLER	18	15
CONTRACT NO. 72L97				
ILLINOIS FED. AID PROJECT				



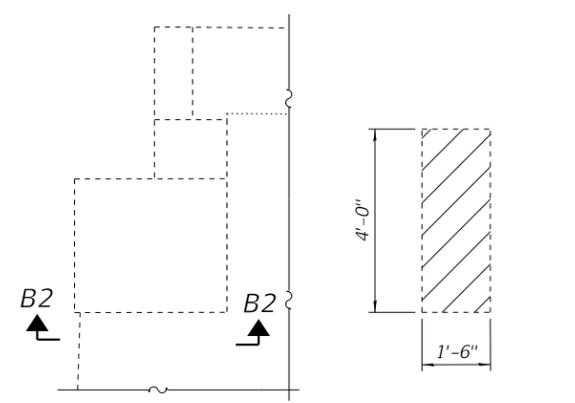
WEST ABUTMENT PLAN



SOUTH END ABUTMENT CAP  
SEC A1-A1



WEST ABUTMENT ELEVATION



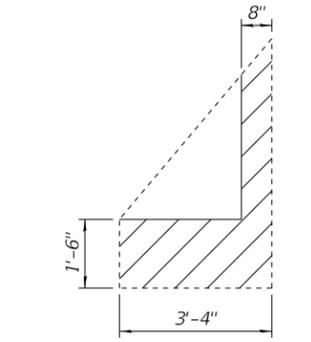
NORTH END ABUTMENT CAP  
SEC. A2-A2

NORTH END ABUTMENT CAP  
BACK  
SEC C-C

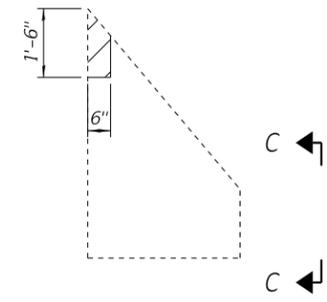
Structural Repair of Concrete, ≤5"

**SUBSTRUCTURE  
BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete, ≤5"	Sq. Ft.	47



SOUTH END ABUTMENT CAP  
BOTTOM  
SEC. B1-B1



NORTH END ABUTMENT CAP  
BOTTOM  
SEC. B2-B2

MODEL: Default  
FILE NAME: J:\18040.05 IDOT D6 - PTB 187-011 - W05 - IL 101 over Williams Creek\CADData\CADsheets\0850025-72L97-006-SubRepair-Abuts.dgn

**KT** KUHN & TRELLO  
CONSULTING ENGINEERS  
A Limited Liability Company  
100 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-628-0244  
Professional Design Firm No. 284-006516

USER NAME =	DESIGNED -	REVISED -
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PLOT DATE =	DRAWN -	REVISED -
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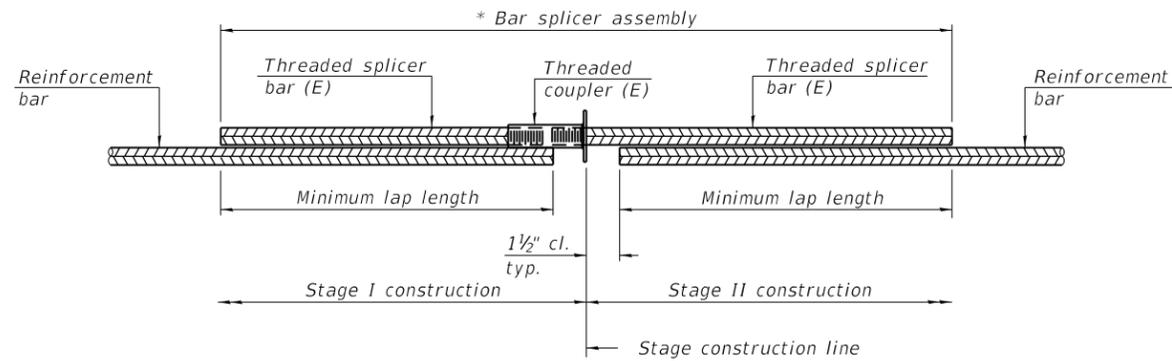
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS  
SN 085-0025

SHEET 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	16
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 72L97

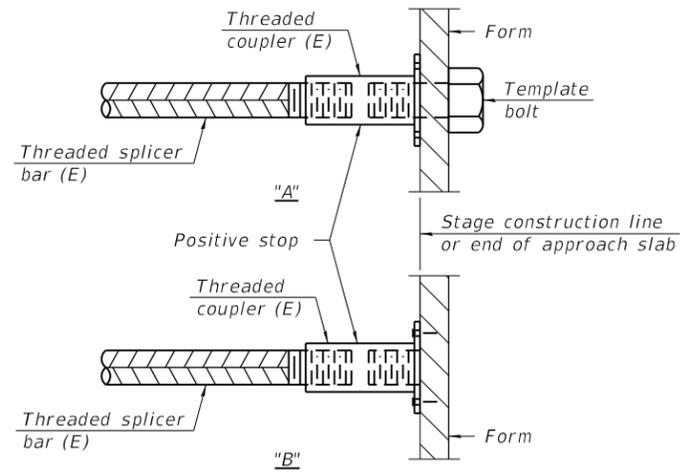


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

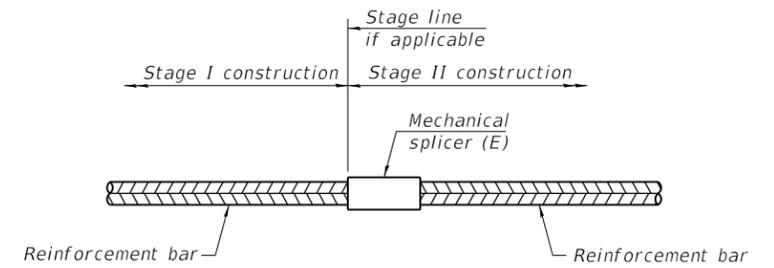
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	16	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.

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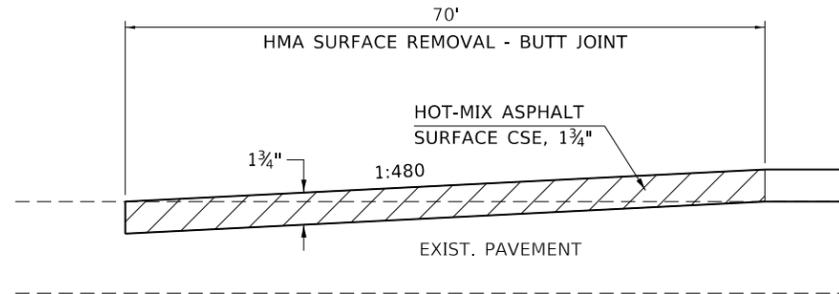
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

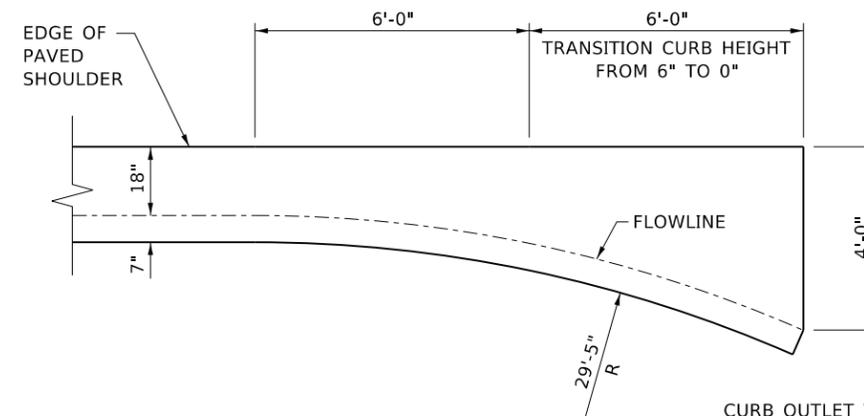
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 SN 085-0025**

SHEET 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	17
CONTRACT NO. 72L97			ILLINOIS FED. AID PROJECT	



**HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT  
DETAIL**



**CURB OUTLET DETAIL**

CURB OUTLET WILL BE MEASURED AND PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS  
FAP 713 (IL 101)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
713	119(BDR)	SCHUYLER	18	18
CONTRACT NO. 72L97			ILLINOIS FED. AID PROJECT	