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11-09-2018 LETTING ITEM 025

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION. (2) BDR B P. 82

D-96-005-19



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

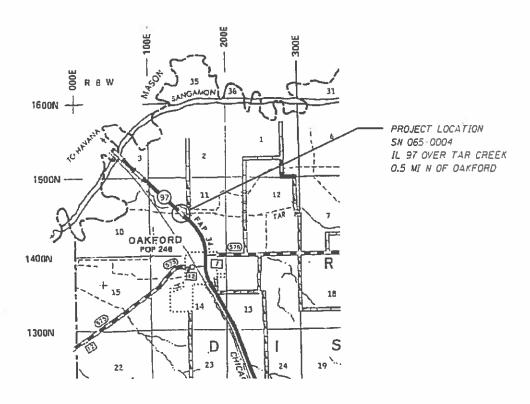
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROPOSED CONTRACT MAINTENANCE

FAP ROUTE 34 (IL 97) SECTION (2) BDR, BJR, BP

BRIDGE DECK OVERLAY MENARD COUNTY

C-96-006-19





ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

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

GROSS LENGTH = 453 FT. = 0.09 MILE NET LENGTH = 453 FT. = 0.09 MILE

CONTRACT NO. 72K86

REVISED REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: INDEX OF SHEETS, STANDARDS, GENERAL NOTES, SIGNATURES, MIX DESIGNS, & QUANTITY SCHEDULES

DESIGN AIR VOIDS

MIX COMPOSITION
(GRADATION MIXTURE)
FRICTION AGGREGATE
OUALITY MANAGEMENT
SUBLOT SIZE MIXTURE USE(S) HMA SURFACE

CSE

PG 64-22

4.0% © N50

IL - 9.5 WIX "C"

EXAMINED EXAMINED EXAMINED DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STATE OF ILLINOIS 700 ENGINEER OF PROJECT IMPLEMENTATION ENGINEER OF PROGRAM DEVELOPMENT DISTRICT 6 26 24 ENGINEER OF OPERATIONS 20/60 20 8 8

782006

STA

70

STA

LOC.

LINE TYPE

PAVT MARK REM (SO FT)

PAVEMENT MARKING REMOVAL SCHEDULE

STAGE 1 786+14

788+06 792+54

792+62 794+54 788+14

SKIP DASH

SKIP DASH

SOLID

21 190 21

792+62

RT

SOL ID TOTAL

190 422

GENERAL NOTES:

001006 630001-12 631031-15 701001-02 701006-05 701201-04 701301-04 701321-17 701901-07 704001-08 000001-06

STANDARDS

108	493	TOTALS		
53	243	792+59	1	791+07
55	250	789+62	1	788+06
(TON)	(POUND)			
COURSE	(TACK CT)	STA	70	STA
HMA SUR	BIT MATL			
	HEDULE	PAVING SCHEDULE		

8-18 STAGING PLAN TRAFFIC CONTROL PLAN SN 065-0004 BRIDGE PLANS COVER SHEET
INDEX, STANDARDS, SIGNATURES, GENERAL NOTES, & SCHEDULES
SUMMARY OF QUANTITIES
TYPICAL SECTIONS & ROADWAY PLAN

INDEX OF SHEETS

				0-01625-6014 SN 065-0004 100% STATE]
CODE NO.	ITEM	UNIT	TOTAL	BRIDGE 0047 MENARD	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	493	493	k
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	711	711	
40600990	TEMPORARY RAMP	SQ YD	86	86	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	108	108	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	23	23	
50102400	CONCRETE REMOVAL	CU YD	15. 2	15.2	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	16.9	16.9	
50300260	BRIDGE DECK GROOVING	SQ YD	471	471	
50300300	PROTECTIVE COAT	SQ YD	36	36	
50500505	STUD SHEAR CONNECTORS	EACH	72	72	

			100% STATE
			BRIDGE
		TOTAL	0047
ITEM	UNIT	QUANTITY	MENARD
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
GUARDRAIL REMOVAL	FOOT	200	200
MOBILIZATION	L SUM	1	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
SHORT TERM PAVEMENT MARKING	FOOT	100	100
SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	33	33
TEMPORARY CONCRETE BARRIER	FOOT	500	500
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	500	500
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
PAINT PAVEMENT MARKING - LINE 5"	FOOT	1250	1250
RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
	TRAFFIC BARRIER TERMINAL, TYPE 6 GUARDRAIL REMOVAL MOBILIZATION TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 TEMPORARY BRIDGE TRAFFIC SIGNALS SHORT TERM PAVEMENT MARKING SHORT TERM PAVEMENT MARKING REMOVAL TEMPORARY CONCRETE BARRIER RELOCATE TEMPORARY CONCRETE BARRIER IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	TRAFFIC BARRIER TERMINAL, TYPE 6 GUARDRAIL REMOVAL FOOT MOBILIZATION L SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 EACH TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 L SUM TEMPORARY BRIDGE TRAFFIC SIGNALS EACH SHORT TERM PAVEMENT MARKING FOOT TEMPORARY CONCRETE BARRIER FOOT RELOCATE TEMPORARY CONCRETE BARRIER FOOT IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH PAINT PAVEMENT MARKING - LINE 5" FOOT	ITEM UNIT QUANTITY TRAFFIC BARRIER TERMINAL, TYPE 6 EACH 4 GUARDRAIL REMOVAL FOOT 200 MOBILIZATION L SUM 1 TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 EACH 1 TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 EACH 1 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 SHORT TERM PAVEMENT MARKING FOOT 100 SHORT TERM PAVEMENT MARKING REMOVAL SO FT 33 TEMPORARY CONCRETE BARRIER FOOT 500 RELOCATE TEMPORARY CONCRETE BARRIER FOOT 500 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH 2 PAINT PAVEMENT MARKING - LINE 5" FOOT 1250

★ SPECIALTY ITEM

SCALE:

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/10/2018	DATE -	REVISED -

REINFORCEMENT BARS, EPOXY COATED

PREFORMED JOINT STRIP SEAL

CONTROLLED LOW-STRENGTH MATERIAL

BAR SPLICERS

50800205

50800515

52000110

59300100

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POUND

EACH

FOOT

CU YD

1860

24

105

5

1860

24

105

5

					F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	SUMMARY OF QUANTITIES				34	(2) BDR, BJR, BF	MENARD	18	3	
								CONTRACT	NO. 72	2K86
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	ID PROJECT		

0-01625-6014 SN 065-0004

100% STATE

0-01625-6014 SN 065-0004 100% STATE

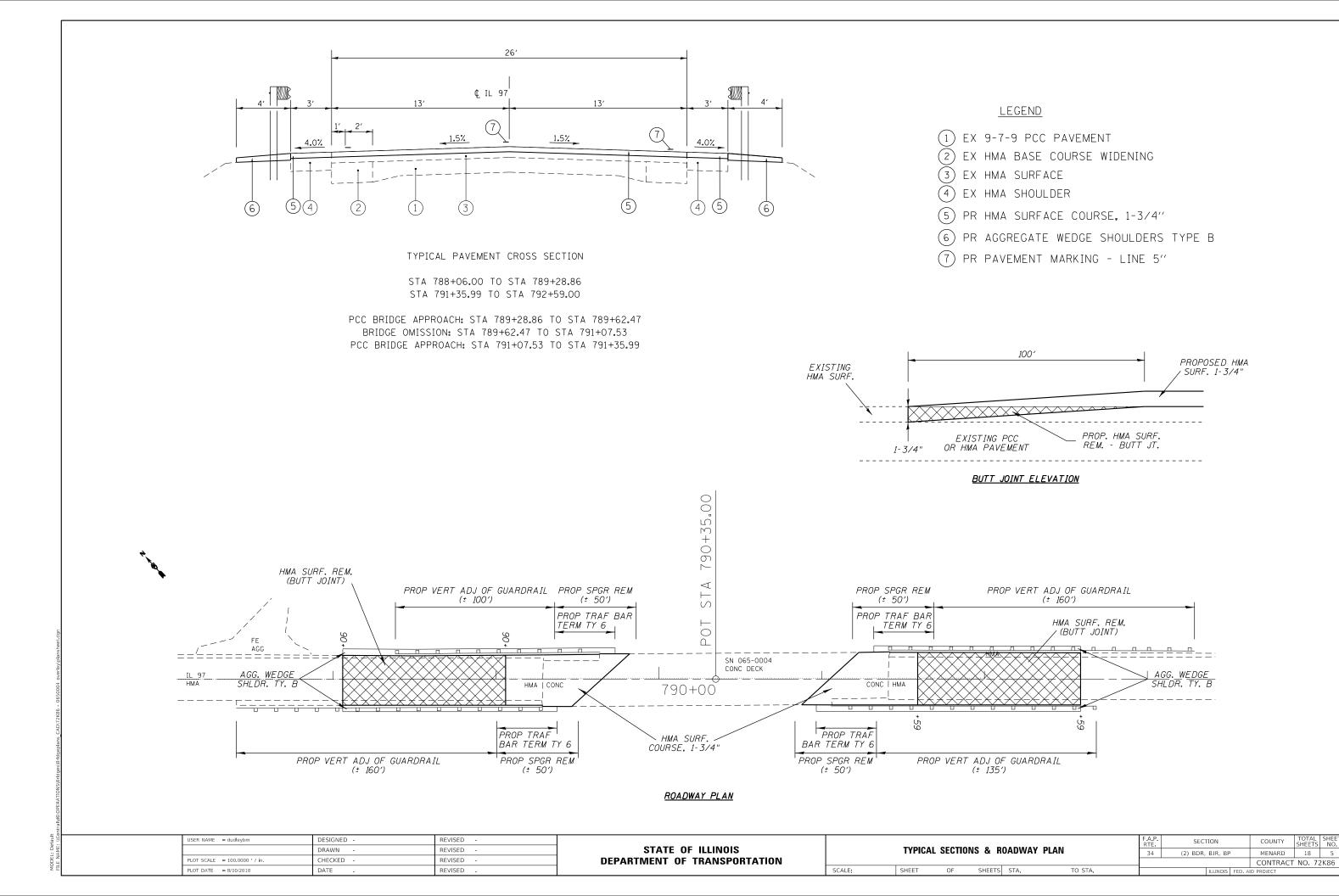
			BRIDGE
ITEM	LINIT	1	0047 MENARD
I I E IVI	UNII	QUANTITI	MENAND
PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	422	422
FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	4	4
VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	555	555
CHANGEABLE MESSAGE SIGN	CAL DA	120	120
WIDTH RESTRICTION SIGNING	L SUM	1	1
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	13	13
CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1	1
CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	504	504
BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2"	SQ YD	504	504
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	4	4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	22	22
JOINT SEALER	FOOT	32	32
	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL) VERTICAL ADJUSTMENT OF GUARDRAIL CHANGEABLE MESSAGE SIGN WIDTH RESTRICTION SIGNING APPROACH SLAB REPAIR (PARTIAL DEPTH) CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES CLEANING AND PAINTING STEEL BRIDGE NO. 1 BRIDGE DECK SCARIFICATION, 3/4" BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2" DECK SLAB REPAIR (FULL DEPTH, TYPE I)	PAVEMENT MARKING REMOVAL - GRINDING FRAMES AND GRATES TO BE ADJUSTED (SPECIAL) VERTICAL ADJUSTMENT OF GUARDRAIL CHANGEABLE MESSAGE SIGN CAL DA WIDTH RESTRICTION SIGNING APPROACH SLAB REPAIR (PARTIAL DEPTH) CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES L SUM CLEANING AND PAINTING STEEL BRIDGE NO. 1 BRIDGE DECK SCARIFICATION, 3/4" SO YD DECK SLAB REPAIR (FULL DEPTH, TYPE I) SO YD DECK SLAB REPAIR (FULL DEPTH, TYPE II) SO YD	PAVEMENT MARKING REMOVAL - GRINDING FRAMES AND GRATES TO BE ADJUSTED (SPECIAL) FRAMES AND GRATES TO BE ADJUSTED (SPECIAL) VERTICAL ADJUSTMENT OF GUARDRAIL FOOT 555 CHANGEABLE MESSAGE SIGN CAL DA 120 WIDTH RESTRICTION SIGNING L SUM 1 APPROACH SLAB REPAIR (PARTIAL DEPTH) SO YD 13 CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES L SUM 1 BRIDGE DECK SCARIFICATION, 3/4" SO YD 504 BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2" SO YD 504 DECK SLAB REPAIR (FULL DEPTH, TYPE II) SO YD 22

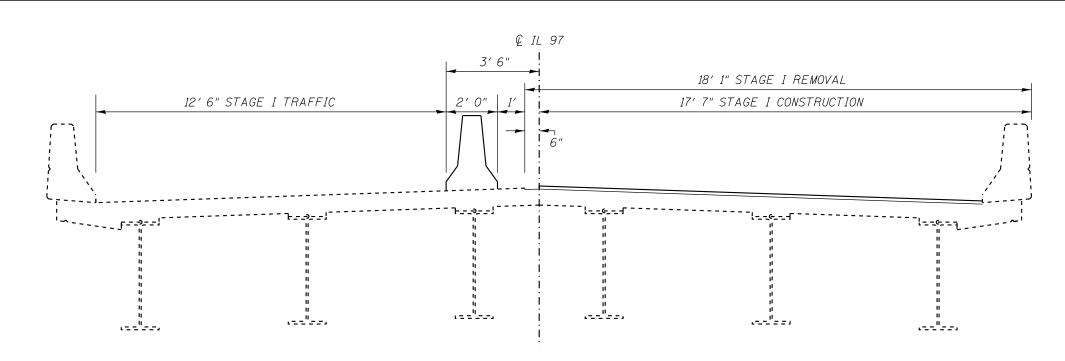
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	DRAWN -	REVISED -
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PLOT DATE = 8/10/2018	DATE -	REVISED -

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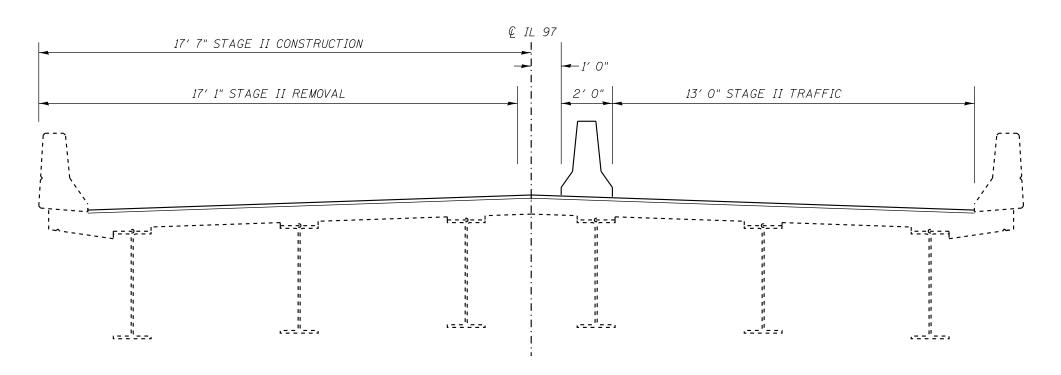
CHMMADY OF CHANTITIES						SECTION	COUNTY TOTAL SHEETS		SHEET NO.
SUMMARY OF QUANTITIES					34	(2) BDR, BJR, BP	MENARD	18	4
							CONTRACT	NO. 72	2K86
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

10NS\Bridges\Bridgeplans_CAD\72K86 - 0650004 overlay\plan



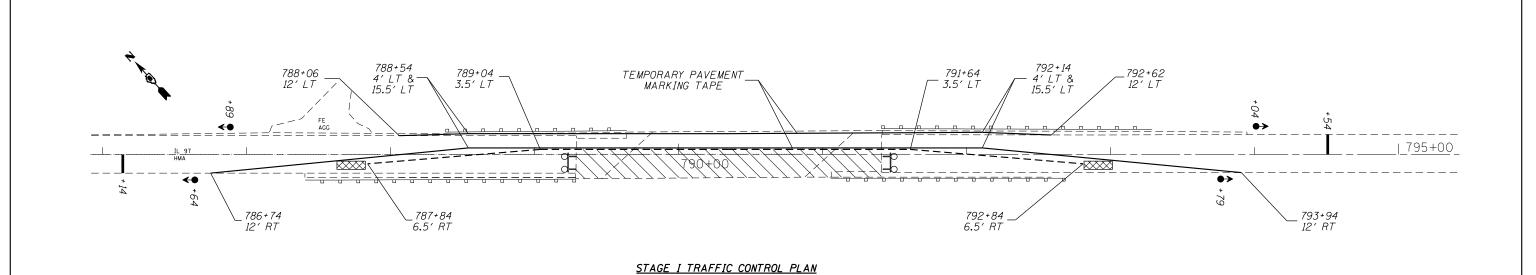


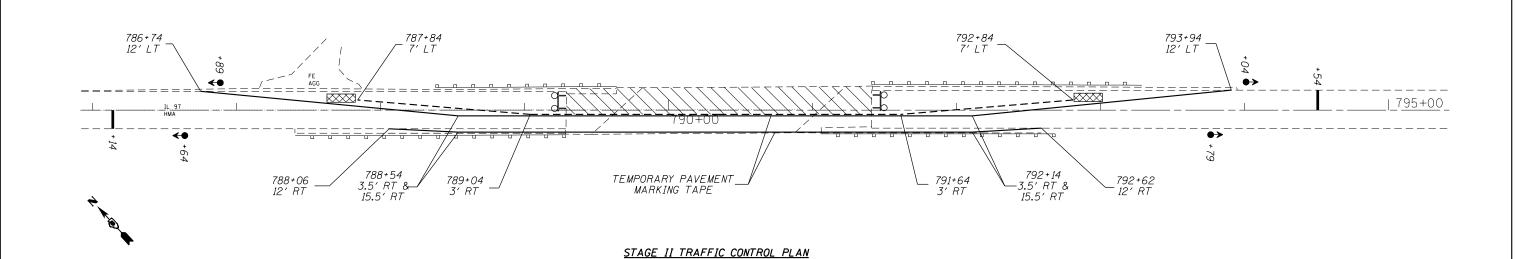
STAGE I CROSS SECTION (LOOKING SOUTH)



STAGE II CROSS SECTION (LOOKING SOUTH)

USER NAME = dudleybm	DESIGNED -	REVISED -								F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC STAGING PLAN				34	(2) BDR, BJR, BP	MENARD	18 6		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. 72K86		
PLOT DATE = 8/10/2018	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO				TO STA.		ILLINOIS FED.	AID PROJECT		





SYMBOLS

WORK AREA

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

TRAFFIC SIGNAL

TYPE III BARRICADE WITH FLASHING LIGHTS

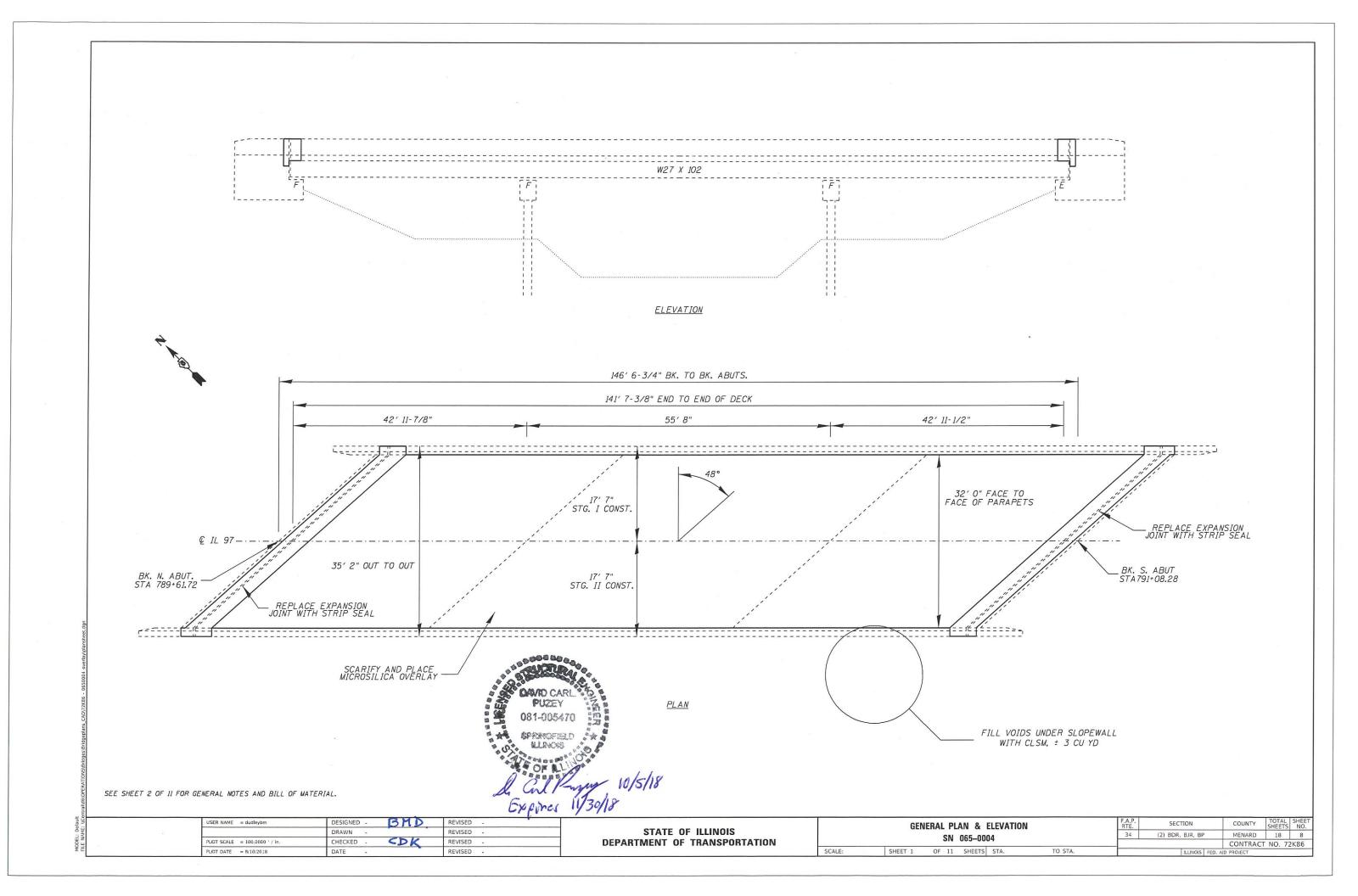
TRAFFIC CONTROL NOTES:

I. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701321. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.

2. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC. ALL BARRIER WALL TAPERS SHALL BE 12:1.

3. RUMBLE STRIPS SHOWN IN STANDARD 701321 WILL NOT BE REQUIRED.

USER NAME = dudleybm	DESIGNED -	REVISED -							F.A.P. RTF	SECTION	COUNTY	TOTAL	SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC CONTROL PLAN				34	(2) BDR, BJR, BP	MENARD	18	7	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT		F NO. 72	K86		
PLOT DATE = 8/10/2018	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		-



STRUCTURE GENERAL NOTES:

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.

PROTECTIVE COAT SHALL ONLY BE APPLIED TO THE DECK AND PARAPETS ADJACENT TO THE PROPOSED EXPANSION JOINTS AND NOT THE MICROSILICA OVERLAY.

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

AREAS TO BE CLEANED AND PAINTED SHALL ONLY CONSIST OF ALL BEAM ENDS, END DIAPHRAGMS, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (12 ENDS) SHALL EXTEND 5'
FROM THE ENDS OF THE BEAMS LONGITUDINALLY. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING
EXISTING STEEL STRUCTURES." ALL AREAS TO BE PAINTED SHALL CLEANED PER NEAR WHITE BLAST CLEANING PER SSPC SP-10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE
REQUIREMENTS OF PAINT SYSTEM 1 - 0Z/E/U. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL 7.5G 4/8. ALL
OTHER SURFACES SHALL BE GRAY, MUNSELL 5B 7/1. THE SSPC-OP-1 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED. THE USE OF AIR MONITORS WILL NOT BE REQUIRED. FINISH COAT SHALL
NOT BE APPLIED UNTIL AFTER ALL ADJACENT STRUCTURAL WORK IS COMPLETED.

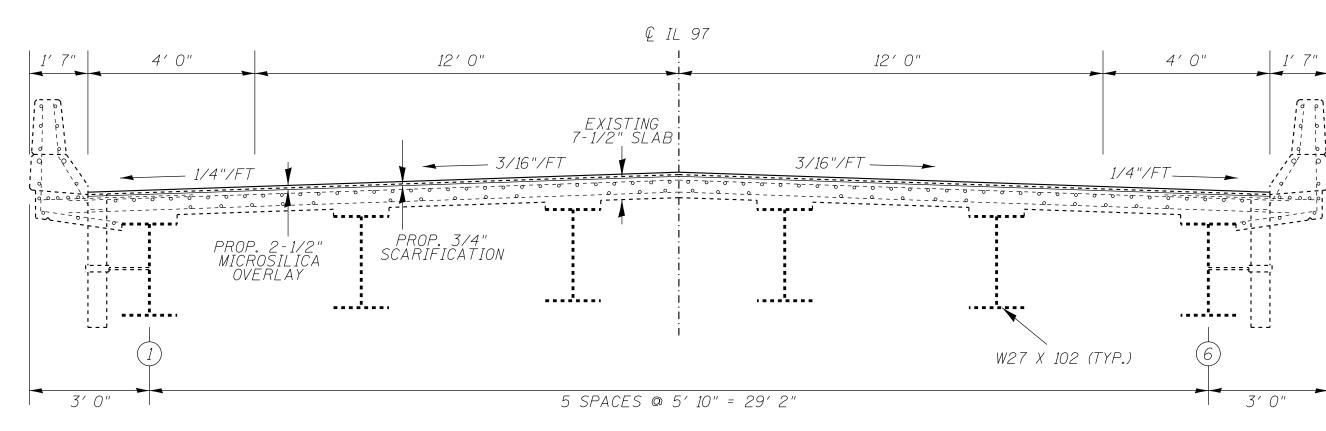
TOTAL BILL OF MATERIAL (065-0004)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	15.2
Concrete Superstructure	Cu. Yd.	16.9
Bridge Deck Grooving	Sq. Yd.	471
Reinforcement Bars, Epoxy Coated	Pound	1860
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	105
Bridge Deck Scarification, 3/4"	Sq. Yd.	504
Bridge Deck Microsilica Concrete Overlay, 2-1/2"	Sq. Yd.	504
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	22
Approach Slab Repair (Partial Depth)	Sq. Yd.	13
Stud Shear Connectors	Each	72
Controlled Low-Strength Material	Cu. Yd.	5
Protective Coat	Sq. Yd.	36
Containment and Disposal Of Non-Lead Paint Cleaning Residues No. 1	L Sum	1
Cleaning And Painting Steel Bridge No. 1	L Sum	1
Joint Sealer	Foot	32
Frames And Grates To Be Adjusted (Special)	Each	4

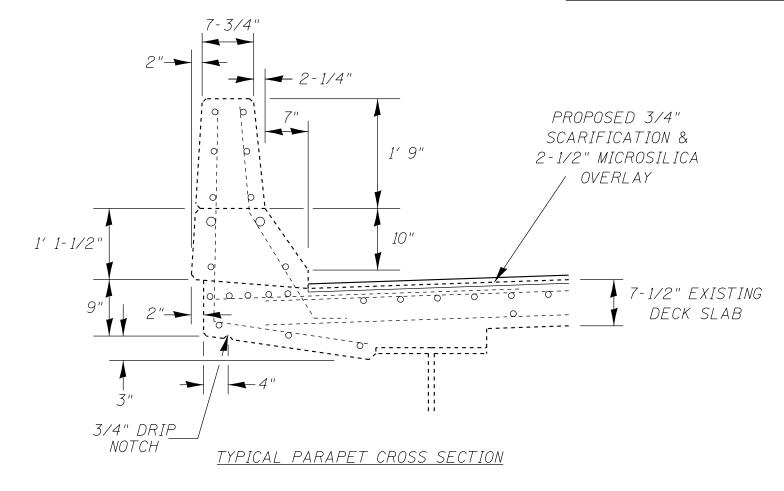
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PLOT DATE = 8/10/2018	DATE -	REVISED -

SCALE:

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BRIDGE CROSS SECTION, LOOKING SOUTH

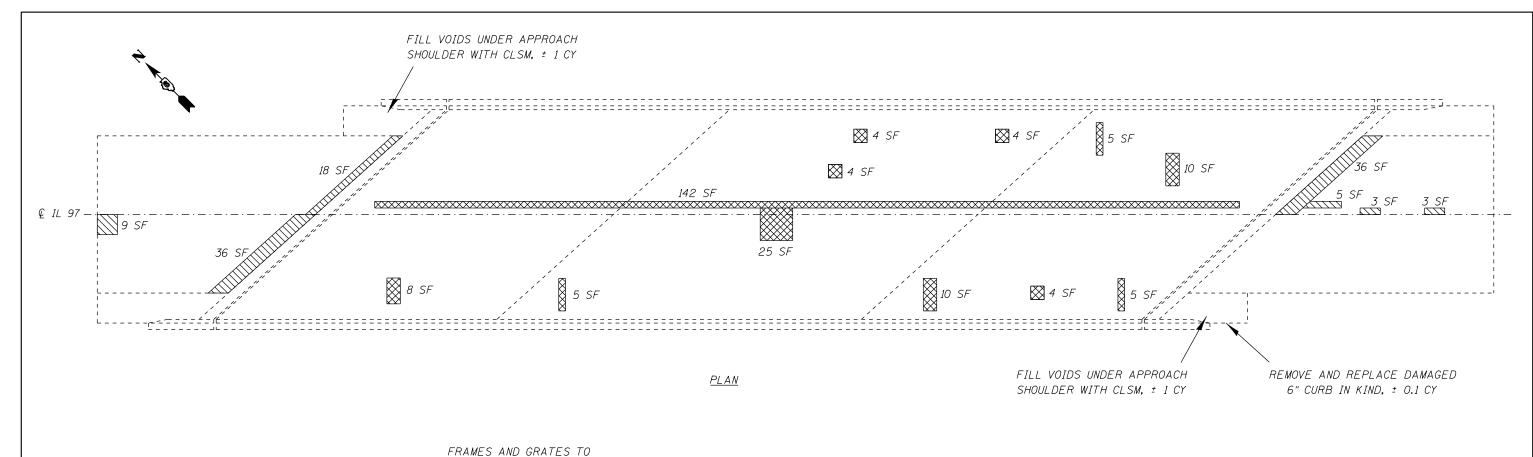


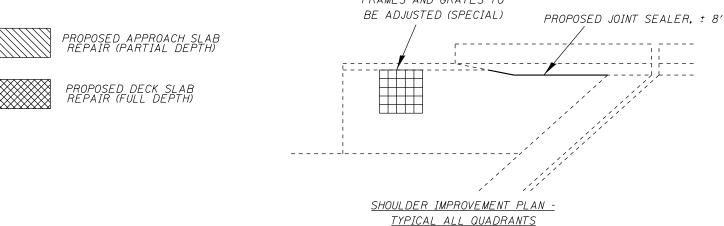
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/10/2018	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

SCALE:

	DECK CROSS SECTION					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SN 065-0004				34	(2) BDR, BJR, BP	MENARD	18	10	
							CONTRACT	NO. 72	2K86	
	SHEET 3	OF 11	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		
						•				





SLAB & SHOULDER REPAIR BILL OF MATERIAL

SENS & SNOOLSEN NEW MAN SIZE OF MAN ENTIRE						
ITEM	UNIT	QUANTITY				
Approach Slab Repair (Partial Depth)	Sq. Yd.	13				
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4				
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	22				
Controlled Low-Strength Material	Cu. Yd.	2				
Concrete Removal	Cu. Yd.	0.1				
Concrete Superstructure	Cu. Yd.	0.1				
Joint Sealer	Foot	32				
Frames And Grates To Be Adjusted (Special)	Each	4				

NOTES:

IDENTIFIED PATCHING LOCATIONS ARE ESTIMATED FROM A DECK SURVEY PERFORMED ON 5/24/2018. THESE LOCATIONS INDICATE PORTIONS OF THE DECK THAT HAVE HIGHER POTENTIAL FOR REOUIRING FULL DEPTH REPAIRS. THE CONTRACTOR SHALL NOT PERFORM FULL DEPTH PATCHING ANYWHERE ON THE DECK UNLESS SCARIFICATION OPERATIONS REVEAL THE NEED TO DO SO. THE PATCHING SURVEY INFORMATION IS INCLUDED FOR INFORMATION ONLY.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

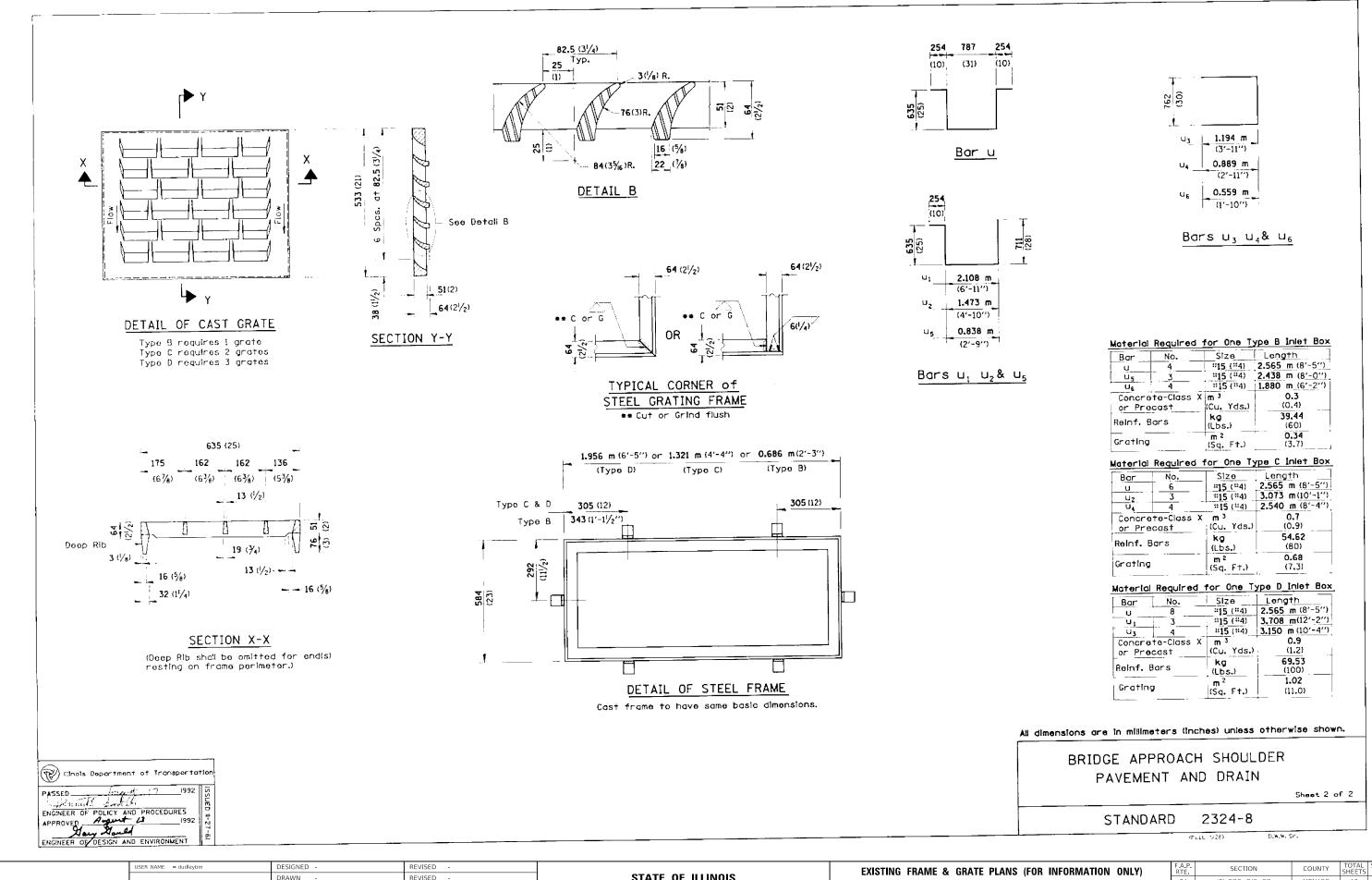
PROPOSED JOINT SEALER SHALL BE PLACED PRIOR TO HMA OVERLAY.

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/10/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
34	34 (2) BDR, BJR, BP		MENARD	18	11
			CONTRACT	NO. 72	2K86
	ILLINOIS	FED. A	ID PROJECT		
	RTE.	RTE. SECTION 34 (2) BDR, BJR, BF	RTE. SECTION 34 (2) BDR, BJR, BP	RTE. SECTION COUNTY 34 (2) BDR, BJR, BP MENARD CONTRACT	RTE. SECTION COUNTY SHEETS 34 (2) BDR, BJR, BP MENARD 18 CONTRACT NO. 72



MODEL: Default

CHECKED

DATE

PLOT DATE = 8/10/2018

REVISED

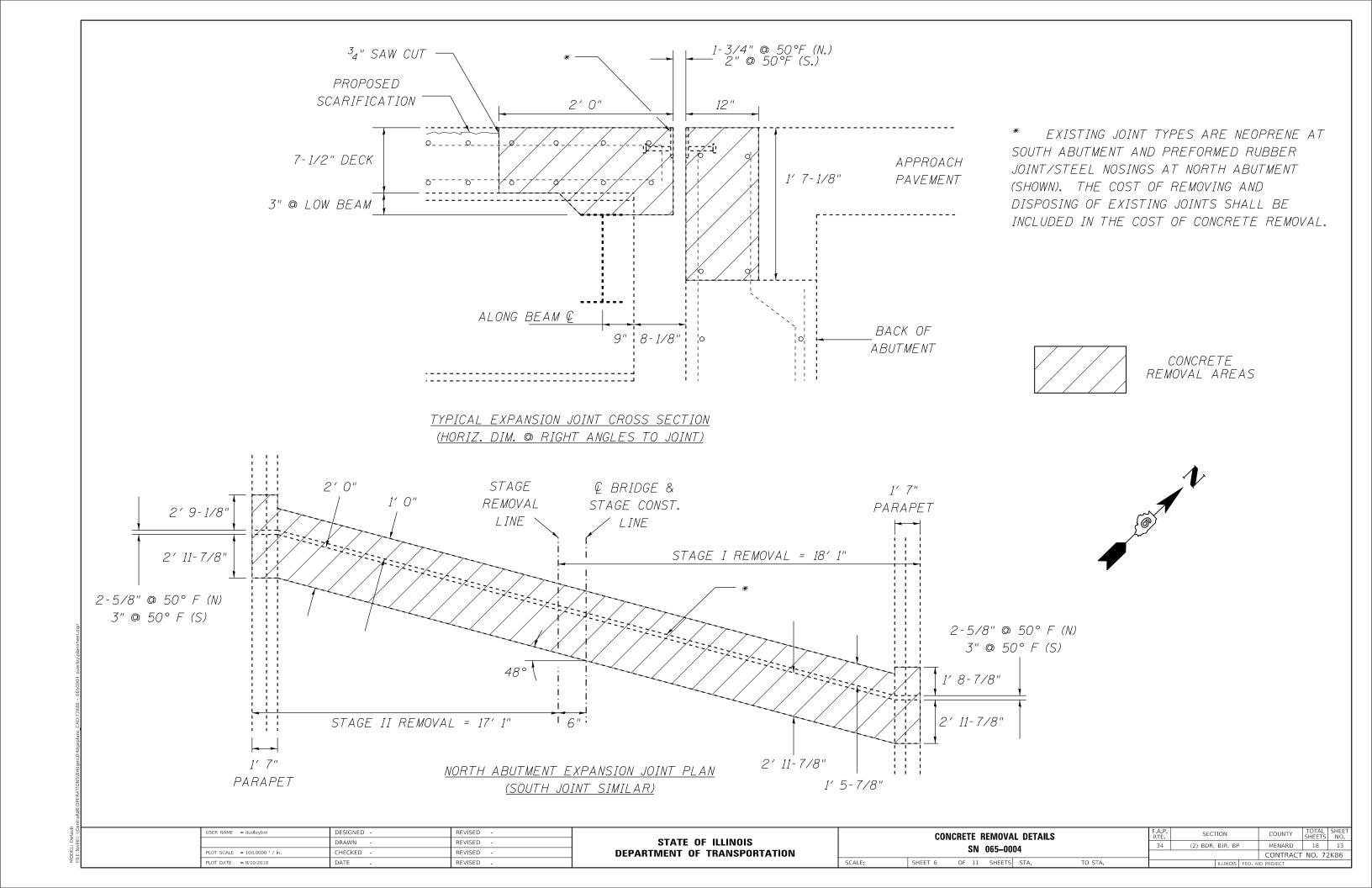
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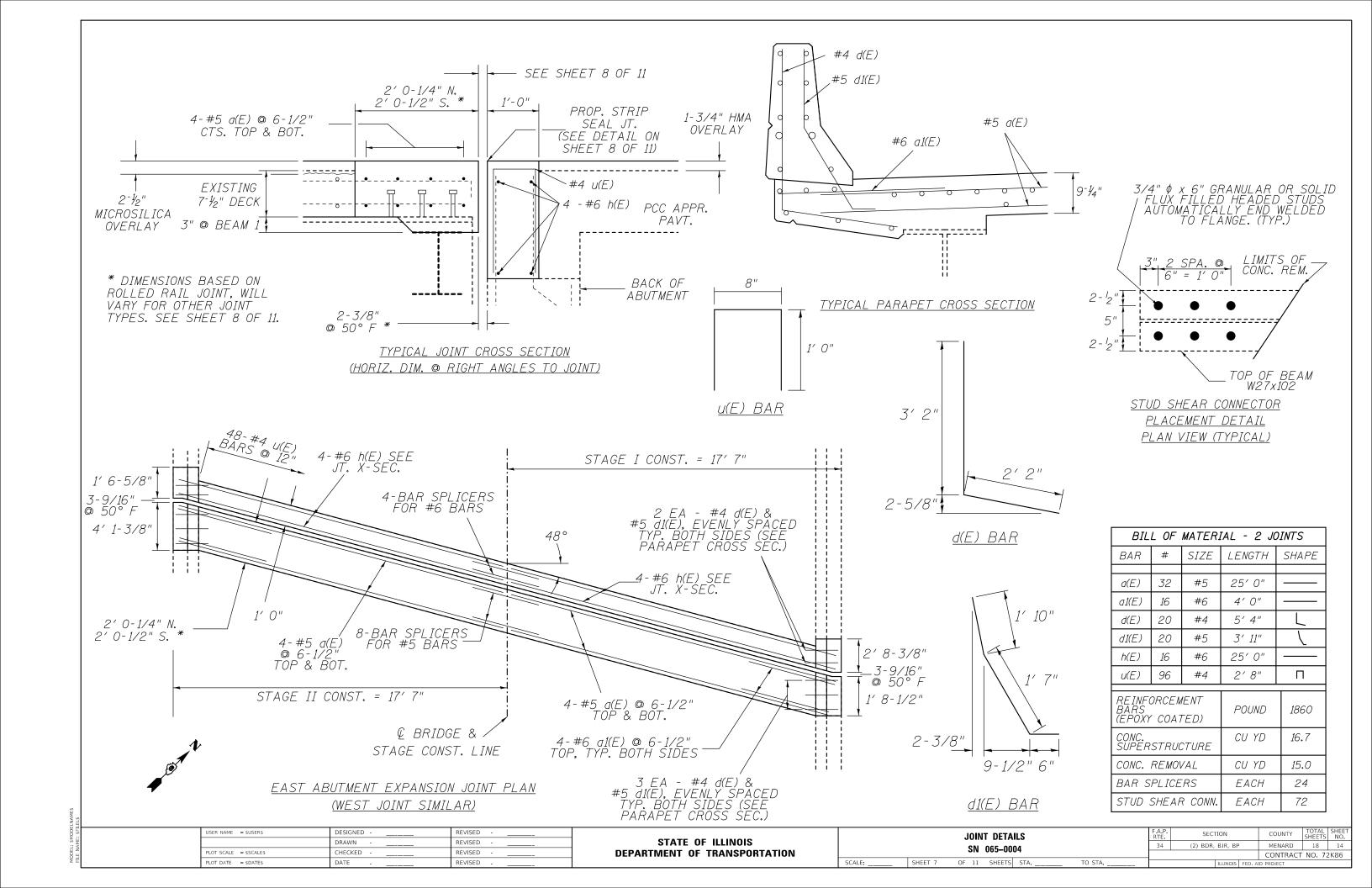
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

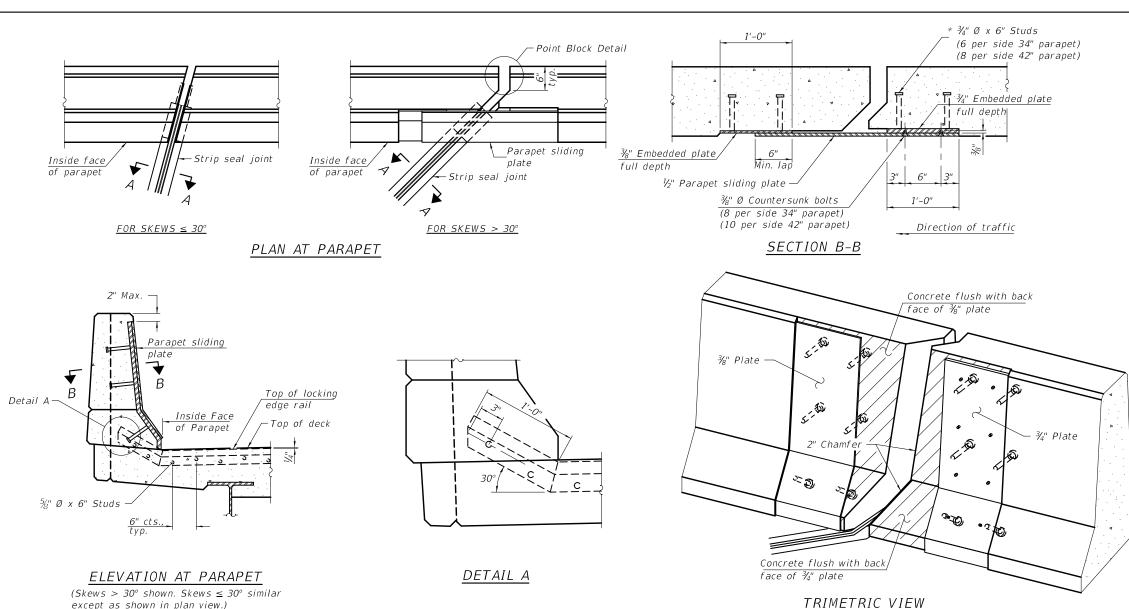
XISTING FRAME & GRATE PLANS (FOR INFORMATION ONLY)

SN 065-0004

SHEET 5 OF 11 SHEETS STA. TO STA.







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 $\frac{3}{6}$ " 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.

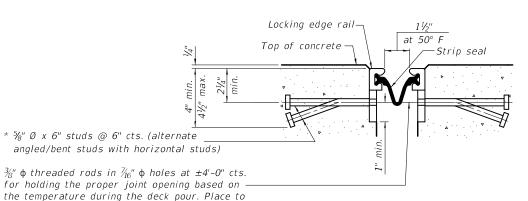
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. 34" F-shape barrier shown, 42" F-shape similar as noted.

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.

except as shown in plan view.)

Locking edge rail-

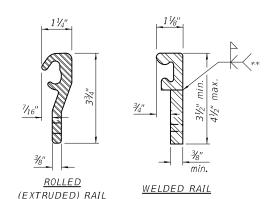
Top of concrete



(Showing embedded plates only)

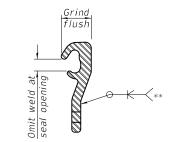
SCALE:

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	105

SECTION A-A

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

miss studs. All rods shall be burned, or sawed

off flush with the plates after concrete is set.

EJ-SS 8-11-17 JSER NAME = \$USER\$ DESIGNED REVISED DRAWN REVISED HECKED REVISED PLOT DATE = SDATES DATE REVISED

at 50° F

at 50° F

SHOWING ROLLED RAIL JOINT

-Strip seal

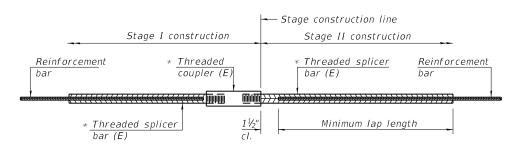
STATE OF ILLINOIS

PI					STRIP SEAL 165-0004
SHEET	8	OF	11	SHEETS	STA.

SECTION COUNTY 34 (2) BDR, BJR, BP MENARD 18 15 CONTRACT NO. 72K86

TO STA.

DEPARTMENT OF TRANSPORTATION

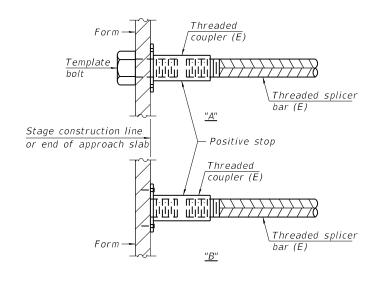


STANDARD BAR SPLICER ASSEMBLY

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.

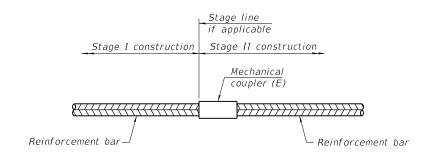
Location	Bar size	No. assemblies required	Minimum lap length
Abuts, (deck side)	#5	16	3′ 1"
Abuts. (appr. side)	#6	8	4′ 5″



INSTALLATION AND SETTING METHODS

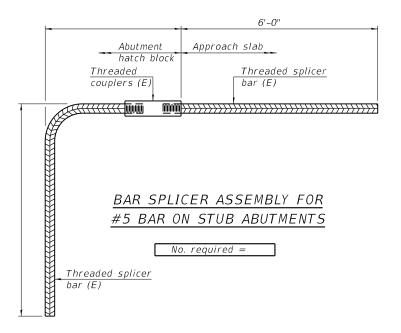
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

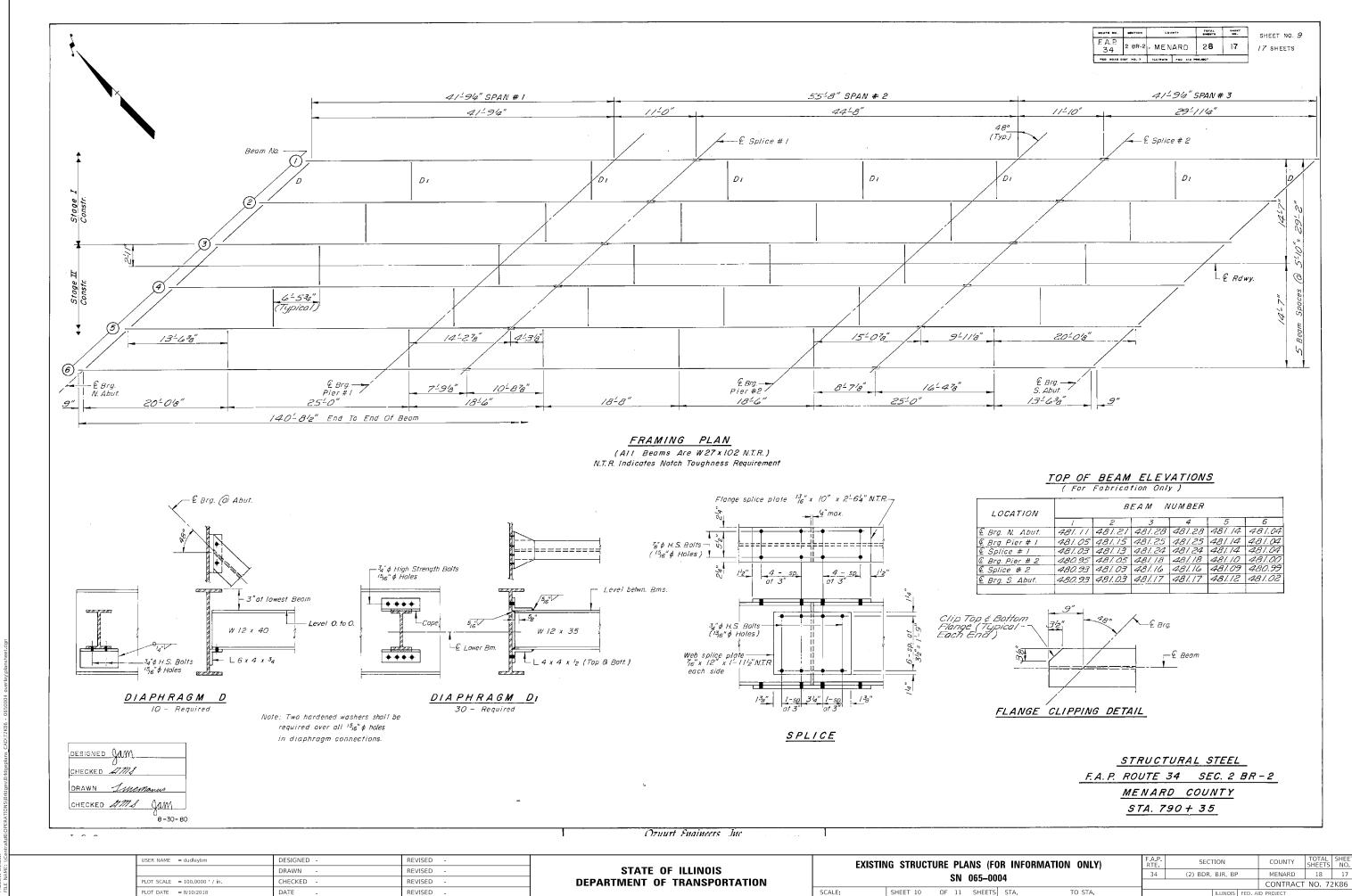
2-17-2017

USER NAME = dudleybm	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/10/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

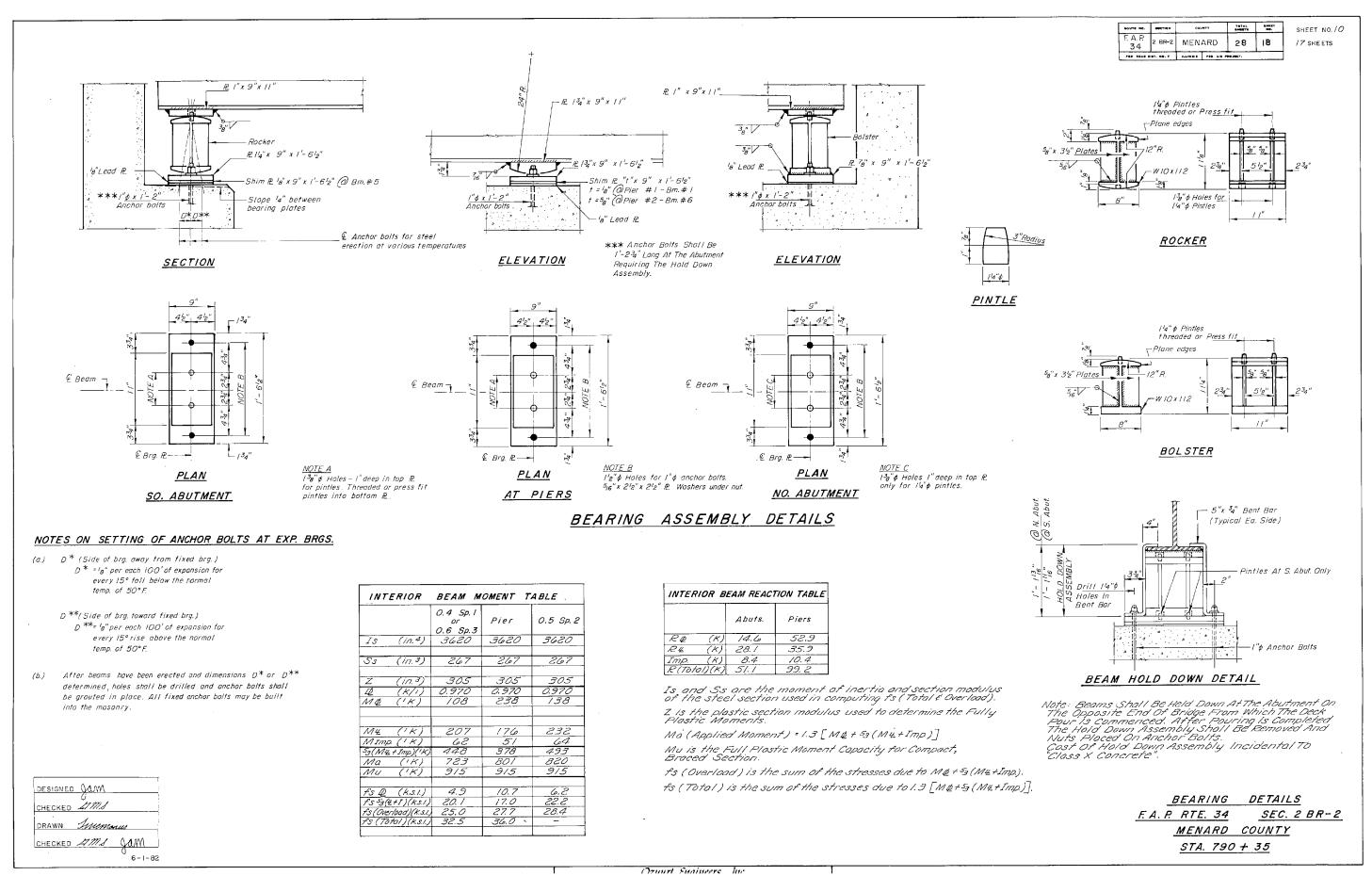
BAR SPLI	CER ASSEM	BLY AN	ID MEC	HANICAL	SPLICER DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET	
SN 065-0004						34	(2) BDR, BJR, BP	MENARD	18	
314 003-0004						CONTRACT NO.				
F.	SHEET 9	OF 11	SHEETS	STA	TO STA		THINOIS SED AID PROJECT			



REVISED

PLOT DATE = 8/10/2018

DATE



MODEL: Default

JSER NAME = dudleybm

PLOT DATE = 8/10/2018

LOT SCALE = 100.0000 ' / in.

DESIGNED -

HECKED

DRAWN

DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS (FOR INFORMATION ONLY)

SN 065-0004

SHEET 11 OF 11 SHEETS STA. TO STA.