

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	1

* (52BR-1 & 53R-B)BJR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

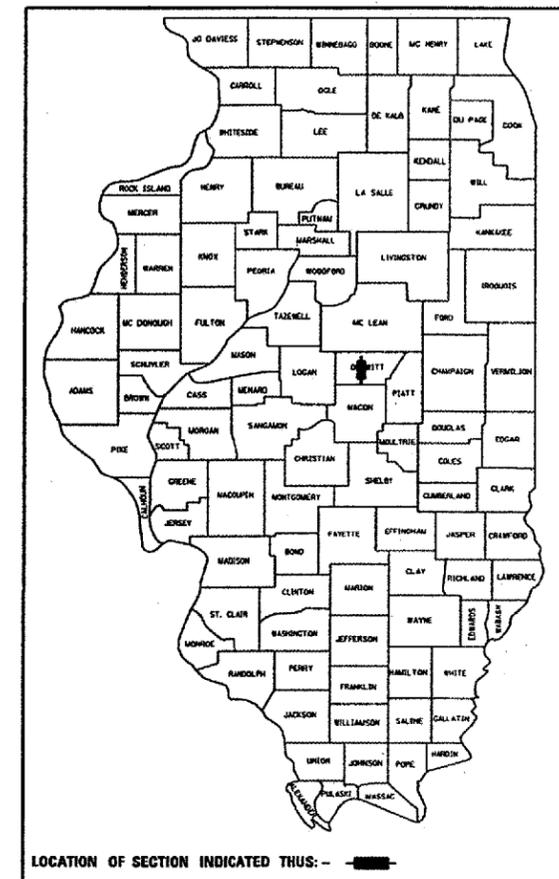
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 322 (US 51)
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY

C-95-103-06

BRIDGE JOINT REPAIR FROM 0.4 MILES SOUTH
OF US-51 BUS TO 2.0 MILES SOUTH OF CLINTON

D-95-103-06



LOCATION OF SECTION INDICATED THUS: -



FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

PROJECT ENGINEER: KENSIL GARNETT

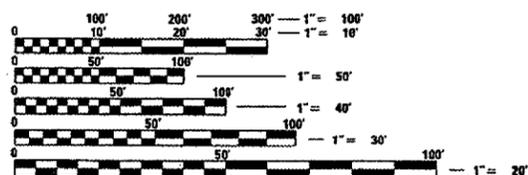
PROJECT ENGINEER: KENSIL GARNETT

SQUAD LEADER: CORY SHEEHY

DESIGNER: KARY DAWSON

CURRENT ADT
F. A. P. 322 (U. S. 51)
CURRENT ADT 5,150 (2006)
DESIGN ADT 5,700 (2026)

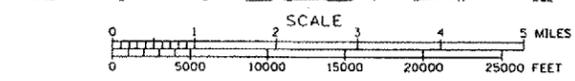
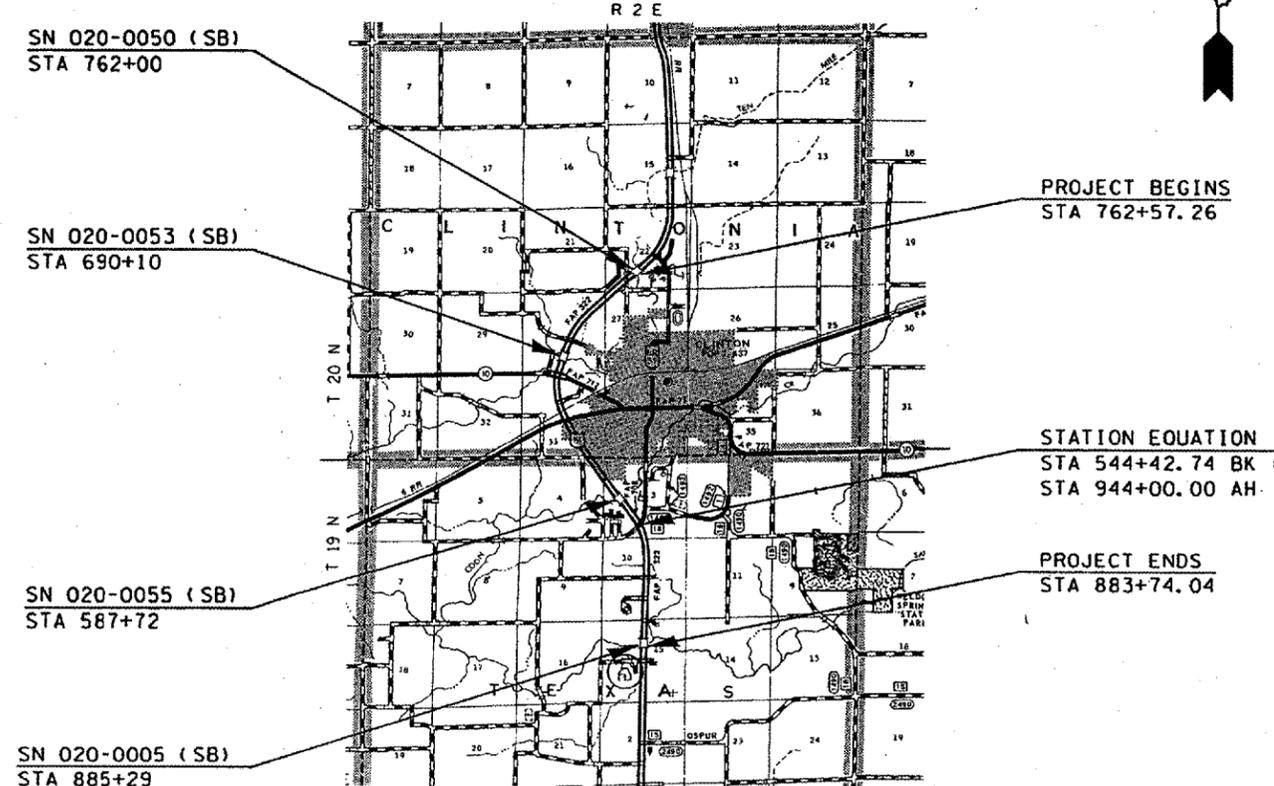
DESIGN DESIGNATION
FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL



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

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

CONTRACT NO. 70593



TOTAL LENGTH OF SECTION & PROJECT = 27,840.48 FEET = 5.273 MILES
NET LENGTH OF SECTION & PROJECT = 842 FEET = 0.159 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 12/20/06
Joseph E. Crowe
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

February 2, 2007
Eric E. Harrel
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2007
Milton R. Siew
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	2

* 52BR-1 & 53R-BIBJR

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS/HIGHWAY STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5-12	BRIDGE JOINT REPAIR PLANS SN 020-0050
13-19	BRIDGE JOINT REPAIR PLANS SN 020-0053
20-26	BRIDGE JOINT REPAIR PLANS SN 020-0055
27-34	BRIDGE JOINT REPAIR PLANS SN 020-0005
35	BAR SPLICER ASSEMBLY DETAILS

HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701422-01	TRAFFIC CONTROL AND PROTECTION
702001-06	TRAFFIC CONTROL DEVICES

PLOT DATE : 12/07/06
 FILE NAME : c:\projects\70593\cover.dgn
 PLOT SCALE : 42.855' / IN.
 USER NAME : craig*

ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS
HIGHWAY STANDARDS
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 SCALE: NA
 DATE: 12/06/06
 DRAWN BY: KD/JRP
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	3

*52BR-1 & 53R-BIBJR

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

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.

G. N. -100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G. N. -609

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

NO COMMITMENTS

PLOT DATE : 12/21/2006
 FILE NAME : I:\Projects\12060386\12060386.dgn
 PLOT SCALE : 42.3529 / IN.
 USER NAME : erange

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY

SCALE: NA
DATE: 12/06/06

DRAWN BY: KD/JRP
CHECKED BY:

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAP 322 (US 51)

CODE NO	ITEM	UNIT	CONSTRUCTION TYPE CODE:				
			DEWITT COUNTY 100% STATE SFTY-2A TOTAL QUANTITY	DEWITT COUNTY 100% STATE SFTY-2A SN 020-0050 QUANTITY	DEWITT COUNTY 100% STATE SFTY-2A SN 020-0053 QUANTITY	DEWITT COUNTY 100% STATE SFTY-2A SN 020-0055 QUANTITY	DEWITT COUNTY 100% STATE SFTY-2A SN 020-0005 QUANTITY
50102400	CONCRETE REMOVAL	CU YD	12.0	4.5	5.2	2.3	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12.0	4.5	5.2	2.3	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	990.0	400.0	380.0	210.0	
50800515	BAR SPLICERS	EACH	15.0	6.0	6.0	3.0	
67100100	MOBILIZATION	L SUM	1.0	0.25	0.25	0.25	0.25
70100320	TRAFFIC CONTROL & PROTECTION STANDARD 701422	L SUM	1.0	0.25	0.25	0.25	0.25
X0320887	POLYMER CONCRETE	CU FT	27.0	7.3	5.2	7.6	6.9
X0321744	SILICONE JOINT SEALER 2"	FOOT	284.0	96.6		96.6	90.8
X0322932	SILICONE JOINT SEALER 1 1/2"	FOOT	43.0		43.0		
X0322933	SILICONE JOINT SEALER 2 1/2"	FOOT	45.0		45.0		
X7015005	CHANGEABLE MESSAGE SIGN	CAL. DA	7.0	1.75	1.75	1.75	1.75
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	6.0	6.0			

PLOT DATE: 12/21/2006
 FILE NAME: c:\projects\70593\70593.dwg
 PLOT SCALE: 1/8" = 1'-0"
 USER NAME: jrogers

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-BIBJR)
 DEWITT COUNTY

SCALE: NA
 DATE: 12/06/06

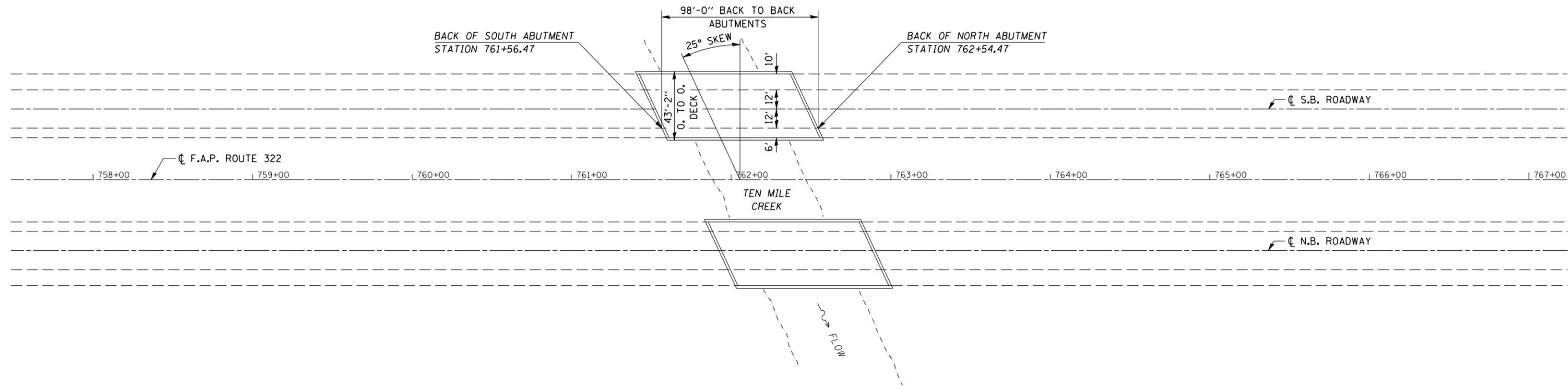
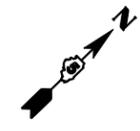
DRAWN BY: KD/JRP
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	5
STA. 758+00		TO STA. 767+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(52BR-1 & 53R-B)BJR

SHEET 1 OF 8

GENERAL PLAN



PLAN VIEW S.N. 020-0051 N.B. S.N. 020-0050 S.B.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIALS

ITEM	UNITS	S. N. 020-0050 TOTAL
CONCRETE REMOVAL	CU YD	4.5
CONCRETE SUPERSTRUCTURE	CU YD	4.5
REINFORCEMENT BARS, EPOXY COATED	POUND	400
BAR SPLICERS	EACH	6
POLYMER CONCRETE	CU FT	7.3
SILICONE JOINT SEALER, 2"	FOOT	96.6
APPROACH SLAB REPAIR (FULL DEPTH)	SO YD	6

NOTE:
ORIGINALLY BUILT
AS SECTION 53R-B-2

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0050

SCALE: 1"=30'
DATE: 11/03/06

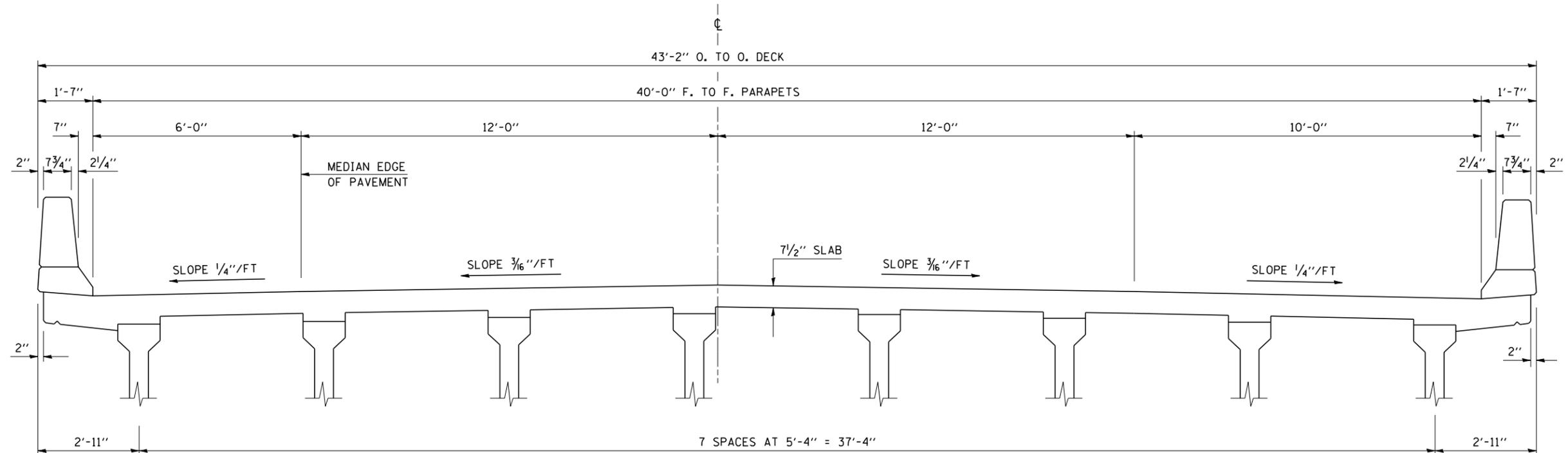
DRAWN BY: JRP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-BIBJR)

SHEET 2 OF 8

SUPERSTRUCTURE



EXISTING & PROPOSED TYPICAL CROSS SECTION

S.N. 020-0050
(SB LOOKING SOUTH)

PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\sb\020050\020050.dgn
 PLOT SCALE : 42,352% / IN.
 USER NAME : creigre

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE

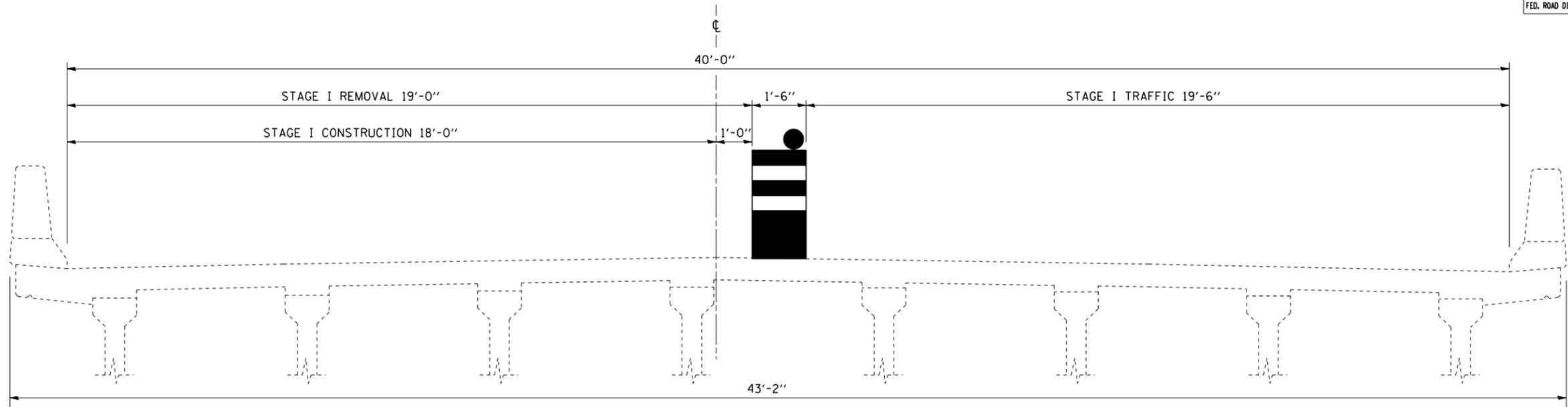
F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-BIBJR)
 DEWITT COUNTY
 S.N. 020-0050

SCALE: NA
 DATE: 11/03/06

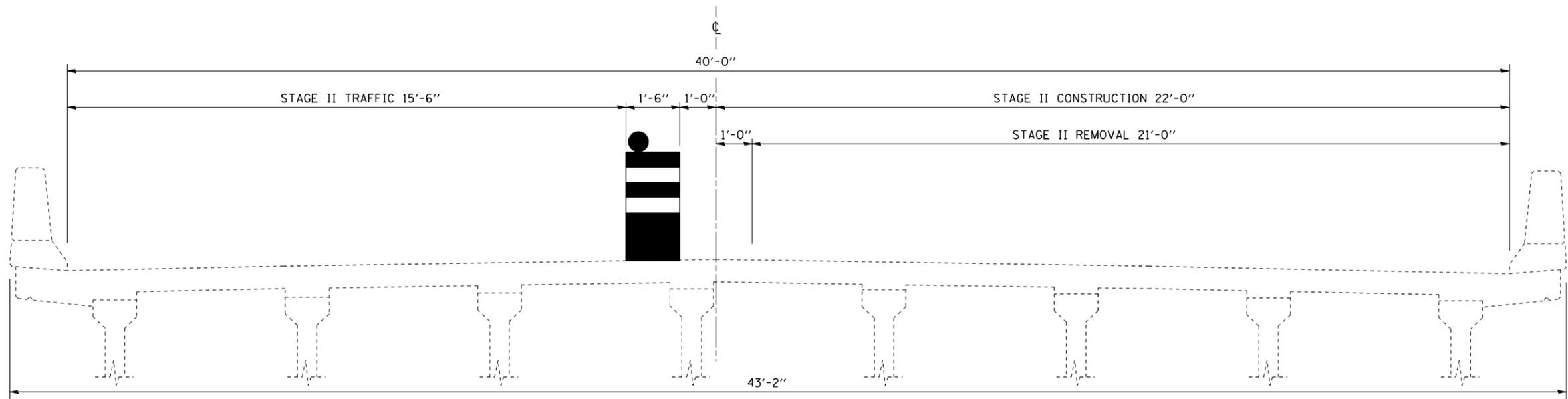
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 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (52BR-1 & 53R-B)BJR				

SHEET 3 OF 8



STAGE I CONSTRUCTION
S.N. 020-0050
(LOOKING SOUTH)



STAGE II CONSTRUCTION
S.N. 020-0050
(LOOKING SOUTH)

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0050

SCALE: NA DRAWN BY: JRP
 DATE: 11/08/06 CHECKED BY:

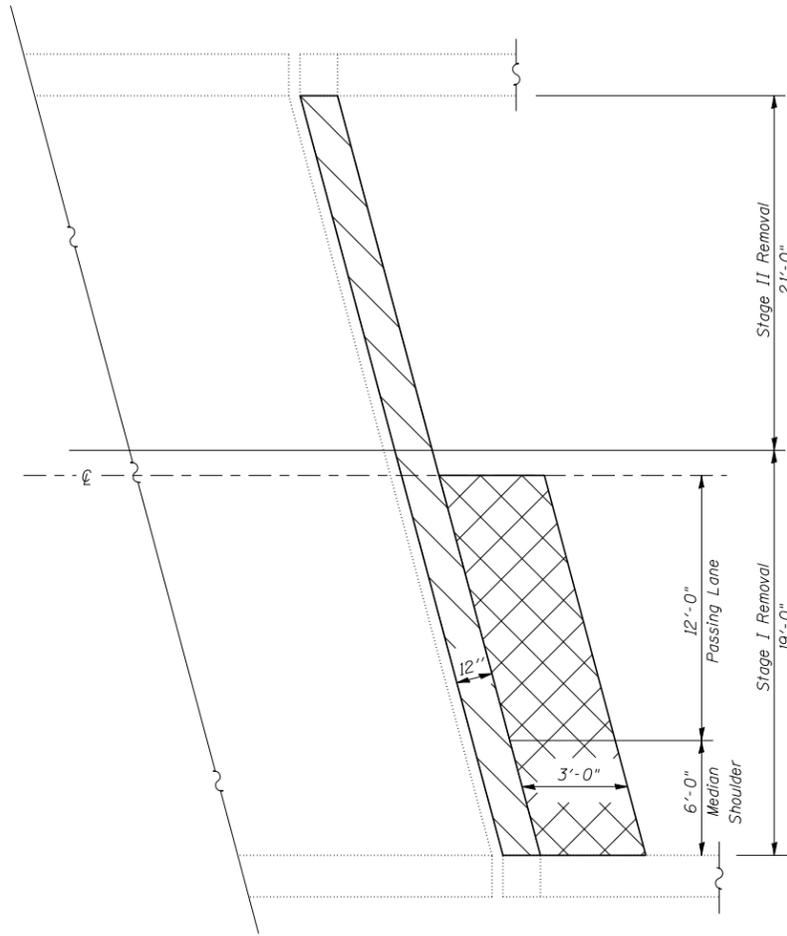
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322	*	DEWITT	35	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

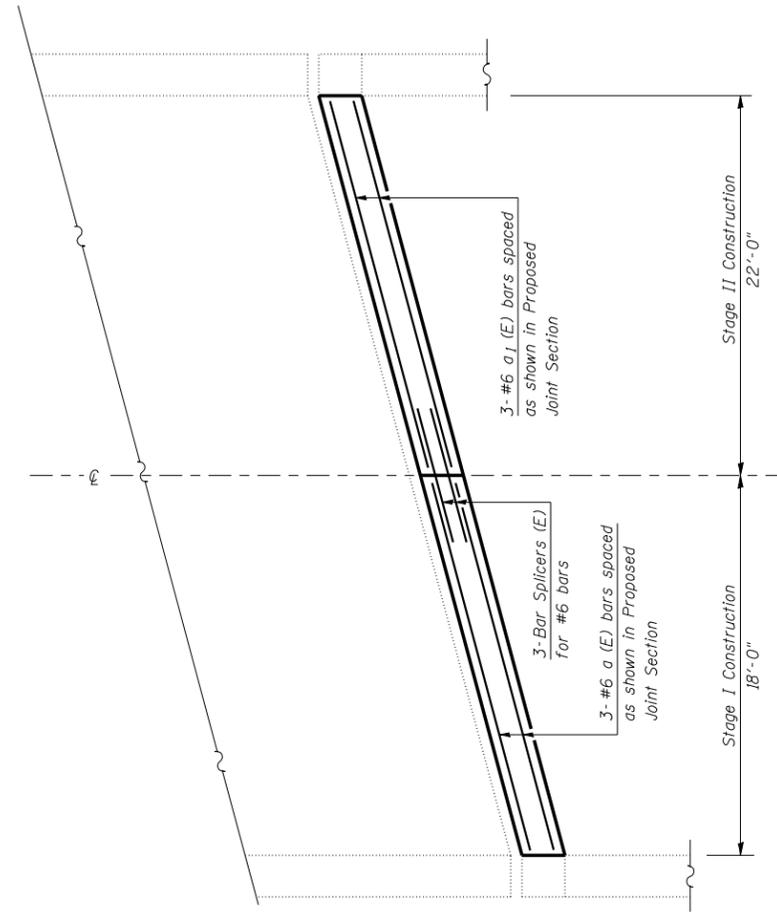
SHEET 4 OF 8

JOINT REPAIR AT NORTH ABUTMENT

S.N. 020-0050



EXISTING PARTIAL PLAN
Joint at North Abutment



PROPOSED PARTIAL PLAN
Joint at North Abutment

BAR LIST

Bar	No.	Size	Length	Shape
a(E)	3	#6	19'-7"	—
a1(E)	3	#6	24'-0"	—

Reinforcement bars designated (E) shall be epoxy coated.

Hatched areas indicates Concrete Removal.

See Sheet 5 of 8 for Proposed Joint Section.

See Sheet 8 of 8 for Section Thru Parapet.

Concrete Removal

Approach Slab Repair

Note:
As built standards show the existing thicknesses of the approach pavement to be 15" for the passing lane and 10" for the median shoulder.

PLOT DATE = 12/21/2006
 FILE NAME = c:\projects\510306 (v81)\70593b-edgeset.dwg
 PLOT SCALE = 42.3525' / IN.
 USER NAME = creig@e

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT NORTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0050

SCALE: NA DRAWN BY: JRP
 DATE: 11/06/06 CHECKED BY:

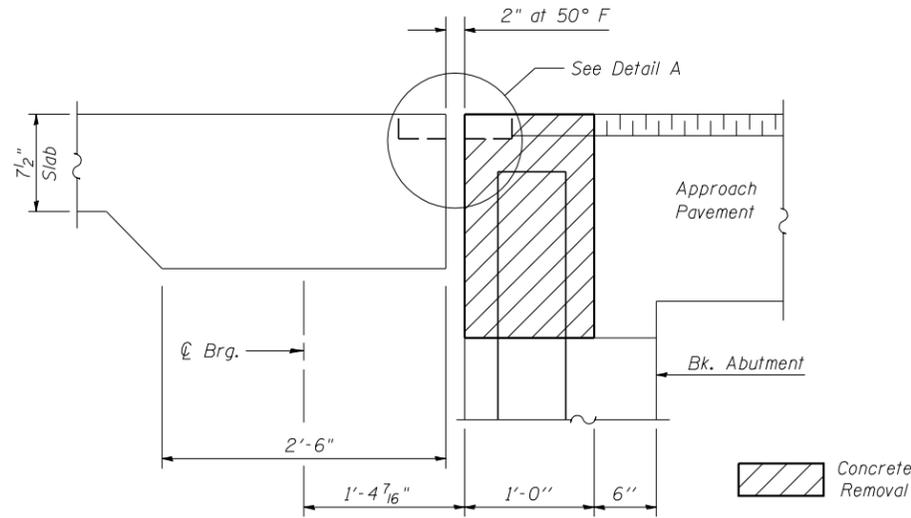
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

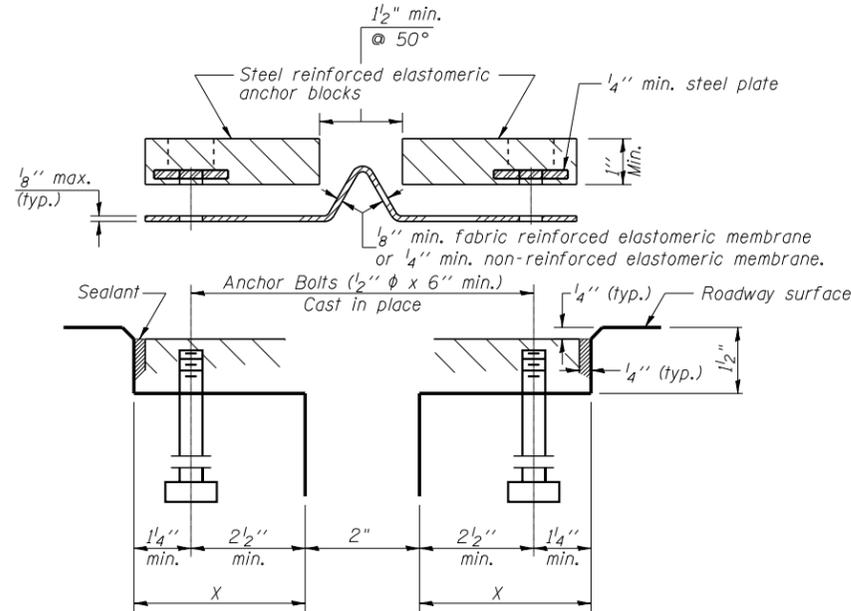
SHEET 5 OF 8

JOINT REPAIR AT NORTH ABUTMENT

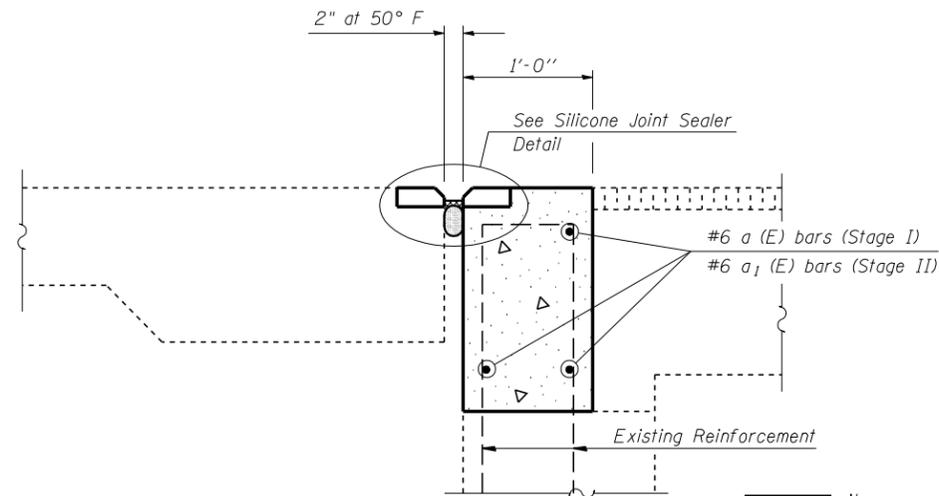
S.N. 020-0050



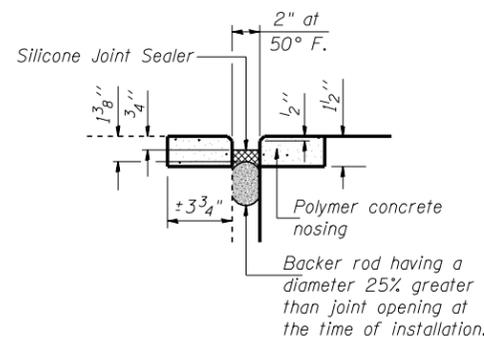
EXISTING SECTION AT NORTH ABUTMENT



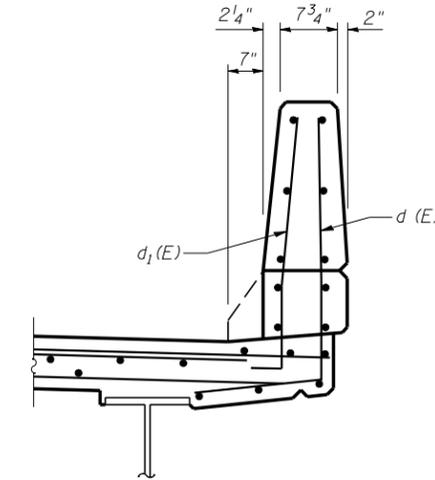
CROSS SECTION DETAIL A EXISTING JOINT



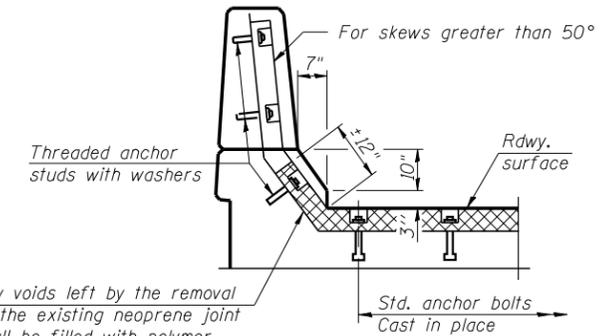
PROPOSED SECTION AT NORTH ABUTMENT



SILICONE JOINT SEALER DETAIL



EXISTING SECTION THRU PARAPET



EXISTING NEOPRENE JOINT AT PARAPET

Note:
For proposed end of seal treatment at abutment, see sheet 8 of 8.

BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.1
Concrete Superstructure	Cu. Yd.	2.1
Reinforcement Bars, Epoxy Coated	Pound	200
Bar Splicers	Each	3
Polymer Concrete	Cu. Ft.	3.75
Silicone Joint Sealer, 2"	Foot	48.3
Approach Slab Repair (Full Depth)	Sq. Yd.	6

Notes:

Remove existing neoprene expansion joint leaving existing anchor bolts on the bridge deck portion, replace with Silicone Joint Sealer and Polymer Concrete.

Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT NORTH ABUTMENT
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0050

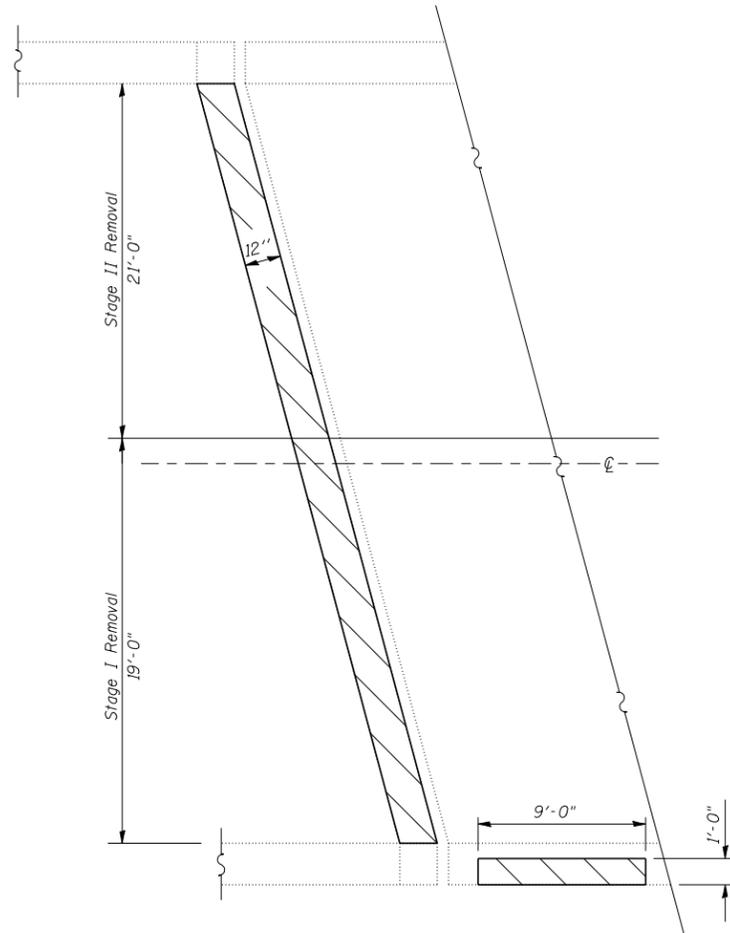
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DATE: 11/06/06 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	10

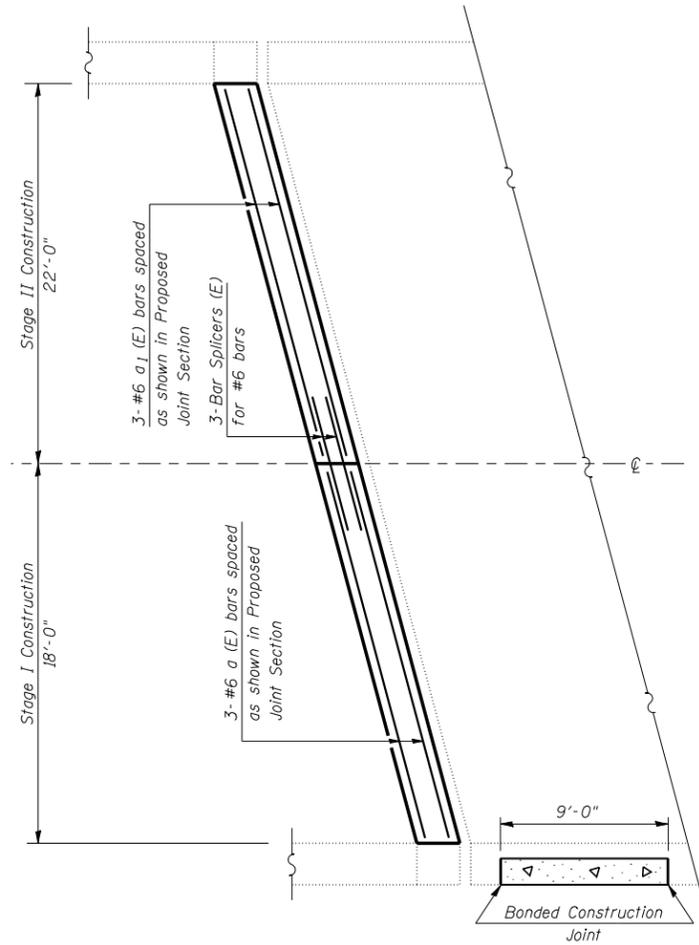
STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
*(52BR-1 & 53R-B)BJR	

JOINT REPAIR AT SOUTH ABUTMENT

S.N. 020-0050



EXISTING PARTIAL PLAN
Joint at South Abutment



PROPOSED PARTIAL PLAN
Joint at South Abutment

Concrete Removal

New Concrete

BAR LIST

Bar	No.	Size	Length	Shape
a (E)	3	#6	19'-7"	—
a1 (E)	3	#6	24'-0"	—

Reinforcement bars designated (E) shall be epoxy coated.

Hatched areas indicates Concrete Removal.

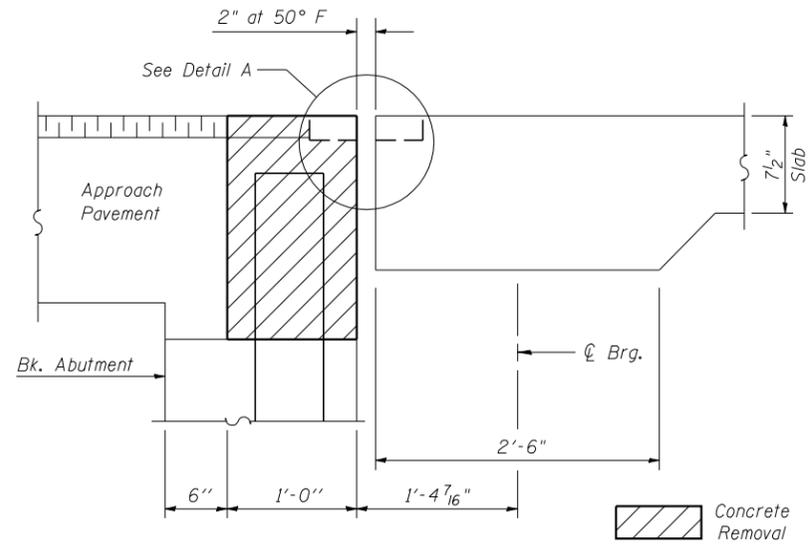
See Sheet 7 of 8 for Proposed Joint Section.

See Sheet 8 of 8 for Section Thru Parapet.

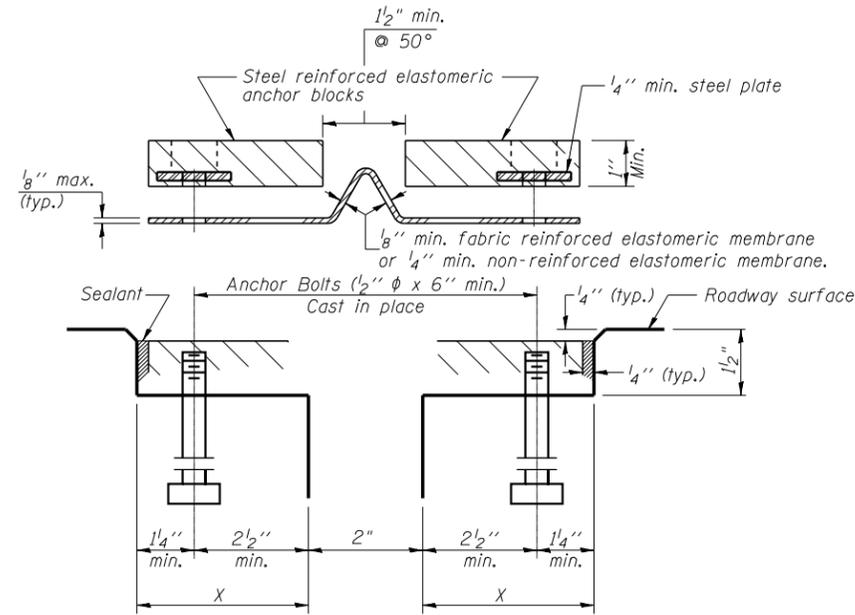
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (52BR-1 & 53R-B)BJR				

JOINT REPAIR AT SOUTH ABUTMENT

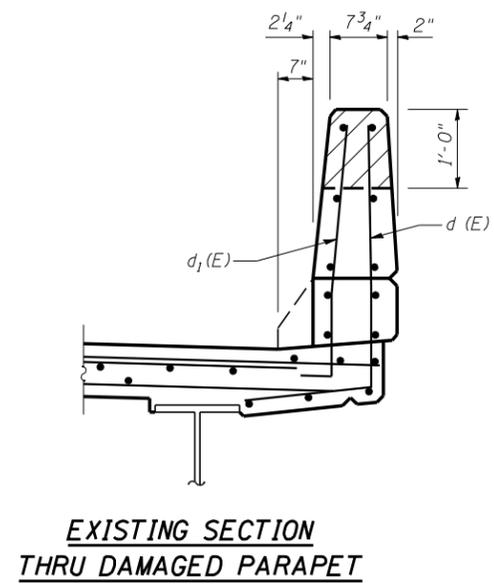
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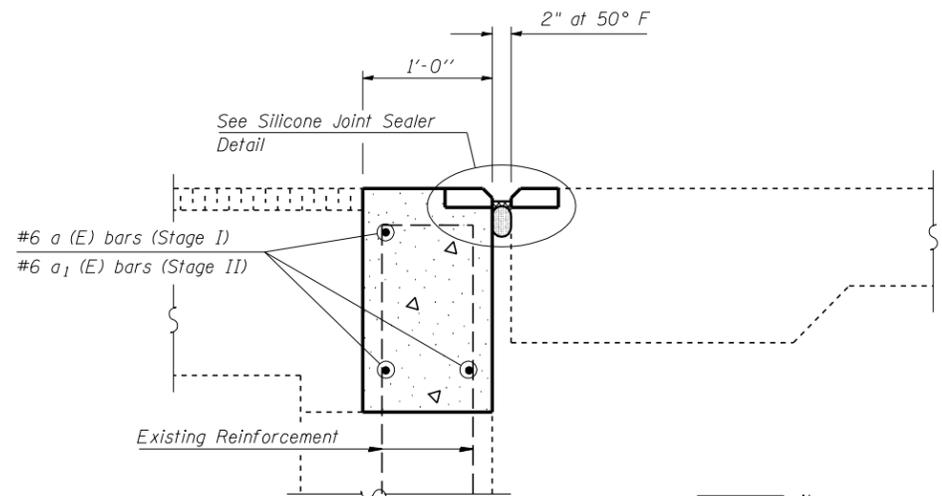
EXISTING SECTION AT SOUTH ABUTMENT



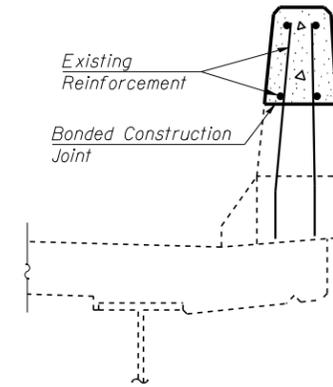
CROSS SECTION DETAIL A EXISTING JOINT



EXISTING SECTION THRU DAMAGED PARAPET



PROPOSED SECTION AT SOUTH ABUTMENT



PROPOSED SECTION THRU DAMAGED PARAPET

Note:
Existing reinforcement extending into removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

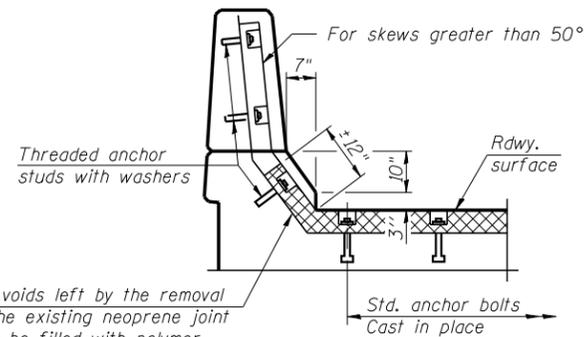
BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.4
Concrete Superstructure	Cu. Yd.	2.4
Reinforcement Bars, Epoxy Coated	Pound	200
Bar Splicers	Each	3
Polymer Concrete	Cu. Ft.	3.6
Silicone Joint Sealer, 2"	Foot	48.3

Notes:

Remove existing neoprene expansion joint leaving existing anchor bolts on the bridge deck portion, replace with Silicone Joint Sealer and Polymer Concrete.

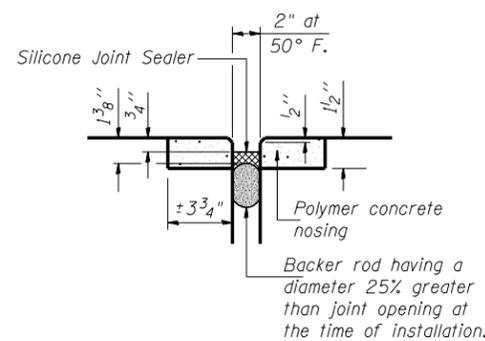
Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.



Any voids left by the removal of the existing neoprene joint shall be filled with polymer concrete.

EXISTING NEOPRENE JOINT AT PARAPET

Note:
For proposed end of seal treatment at abutment, see sheet 8 of 8.



SILICONE JOINT SEALER DETAIL

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT SOUTH ABUTMENT
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0050

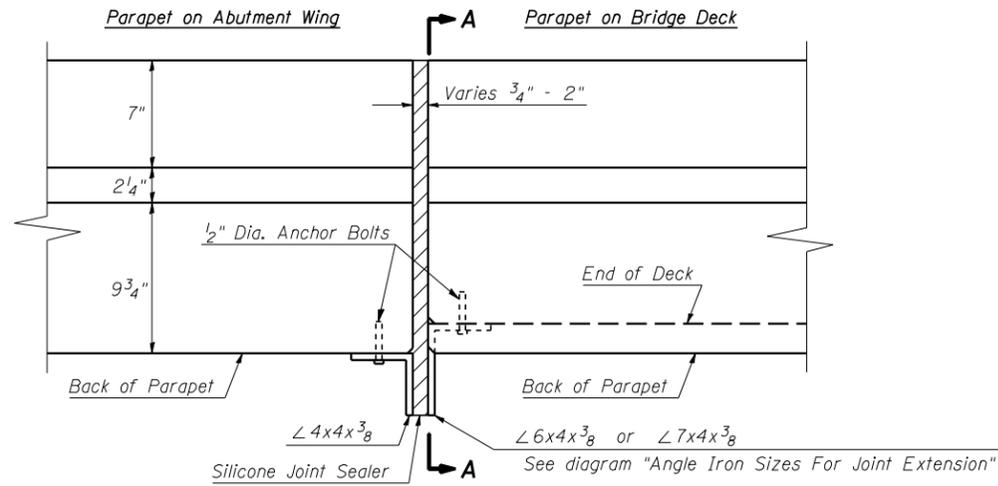
SCALE: NA DRAWN BY: JRP
DATE: 11/06/06 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

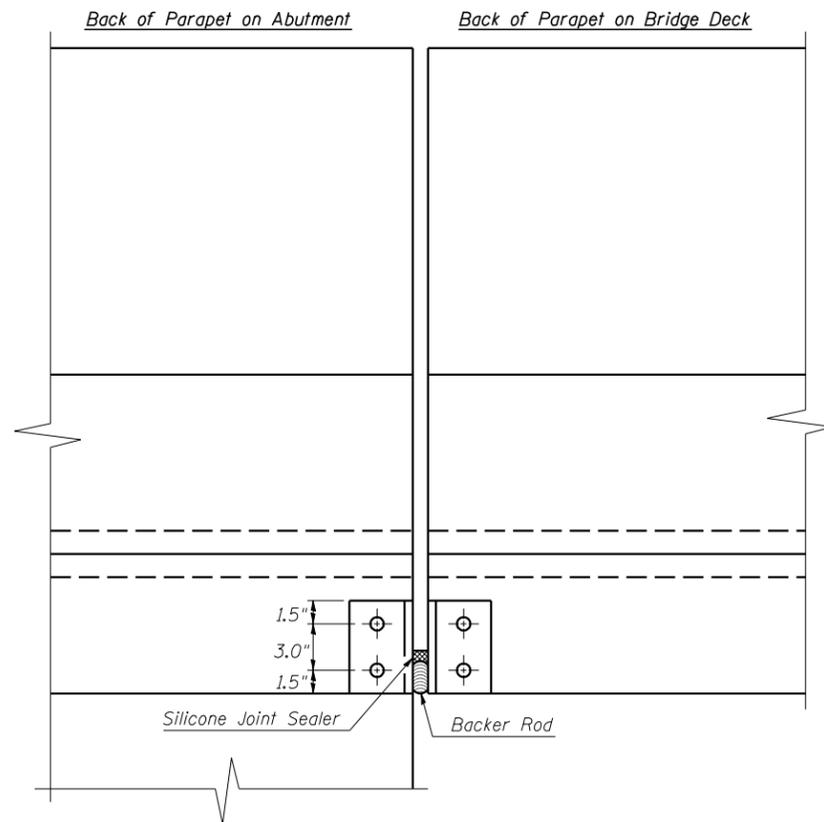
* (52BR-1 & 53R-B)BJR

SHEET 8 OF 8

JOINT EXTENSION DETAILS



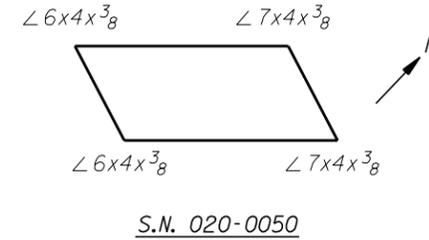
TOP VIEW
TOP OF PARAPETS AT JOINT



SIDE VIEW
BACK OF PARAPET AT JOINT

ANGLE IRON SIZES FOR JOINT EXTENSION

- Angle Iron sizes shown in diagram is for attachment to Bridge Deck.
- Angle Iron sizes for attachment to the Abutment Wing will be $\angle 4 \times 4 \times \frac{3}{8}$ in all cases.



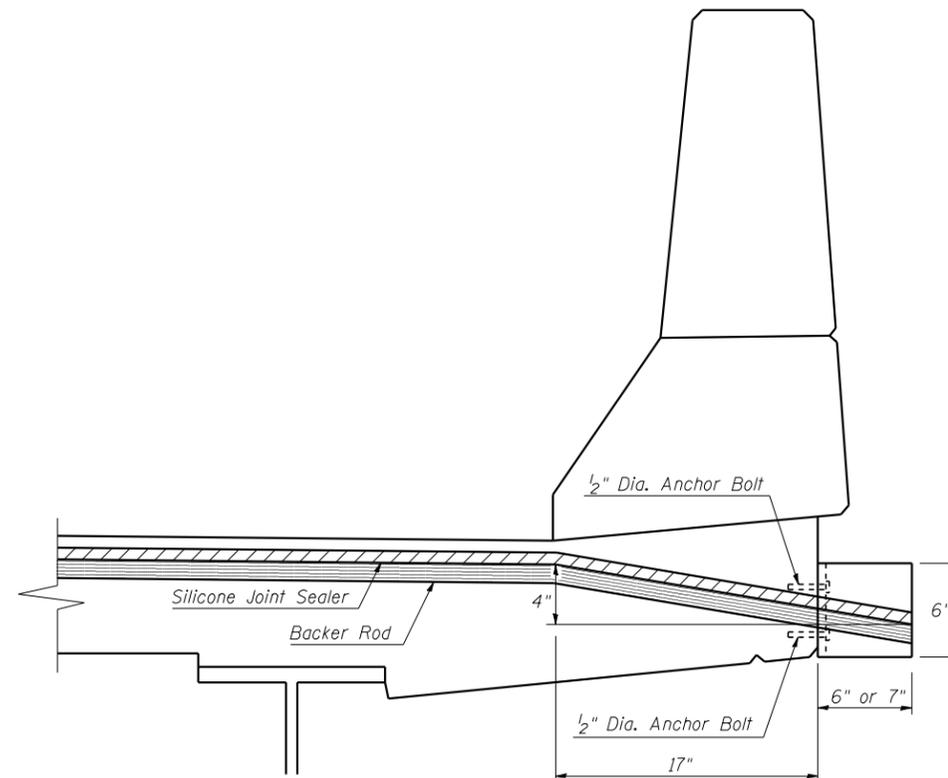
LIST OF MATERIALS

$\angle 4 \times 4 \times \frac{3}{8}$ - Stainless Steel Angle Iron - 4 ea @ 6" = 2.0 Feet
$\angle 6 \times 4 \times \frac{3}{8}$ - Stainless Steel Angle Iron - 2 ea @ 6" = 1.0 Feet
$\angle 7 \times 4 \times \frac{3}{8}$ - Stainless Steel Angle Iron - 2 ea @ 6" = 1.0 Feet
1/2 Inch Anchor Bolts - Stainless Steel = 16 Each

The Stainless Steel Angle Iron and Anchor Bolts, furnished and installed shall not be paid for separately but shall be included in the unit bid price for Silicone Joint Sealer, 2".

GENERAL NOTES

1. Anchor Bolts shall be Stainless Steel Grade 5 or higher.
2. All sections of Angle Iron shall be Stainless Steel.
3. Stainless Steel Angle Iron shall be attached to the back side of the Abutment Wing and Bridge Deck as shown in the detail and to the satisfaction of the engineer PRIOR to the placement of Backer Rod and Silicone Joint Sealer.
4. The concrete at locations which the Stainless Steel Angle Iron is to be attached shall be generally flat and free of rough or high spots. Light grinding with a concrete grinding wheel may be required at a few locations to ensure a smooth/flat surface.
5. Drainage by others.



SECTION A-A THRU PARAPET

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT EXTENSION DETAILS

F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0050

SCALE: NA
DATE: 11/09/06

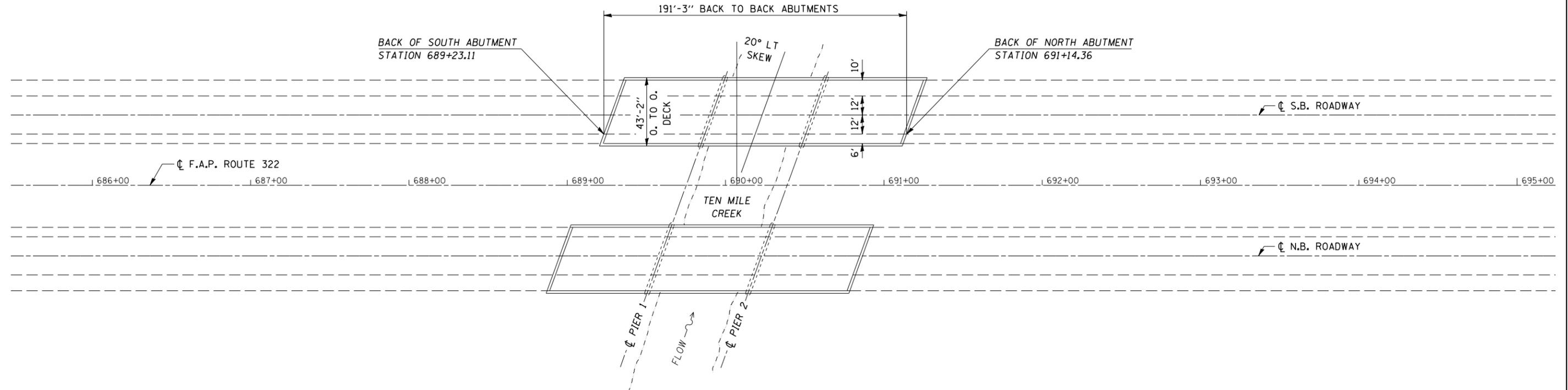
DRAWN BY: JRP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	13
STA. 686+00		TO STA. 695+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

SHEET 1 OF 7

GENERAL PLAN



PLAN VIEW S.N. 020-0052 N.B. S.N. 020-0053 S.B.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIALS

ITEM	UNITS	S. N. 020-0053 TOTAL
CONCRETE REMOVAL	CU YD	5.2
CONCRETE SUPERSTRUCTURE	CU YD	5.2
REINFORCEMENT BARS, EPOXY COATED	POUND	380
BAR SPLICERS	EACH	6
SILICONE JOINT SEALER, 1 1/2"	FOOT	43
POLYMER CONCRETE	CU FT	5.2
SILICONE JOINT SEALER, 2 1/2"	FOOT	45

NOTE:
ORIGINALLY BUILT
AS SECTION 53R-B-1

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0053

SCALE: 1"=30'
DATE: 11/03/06

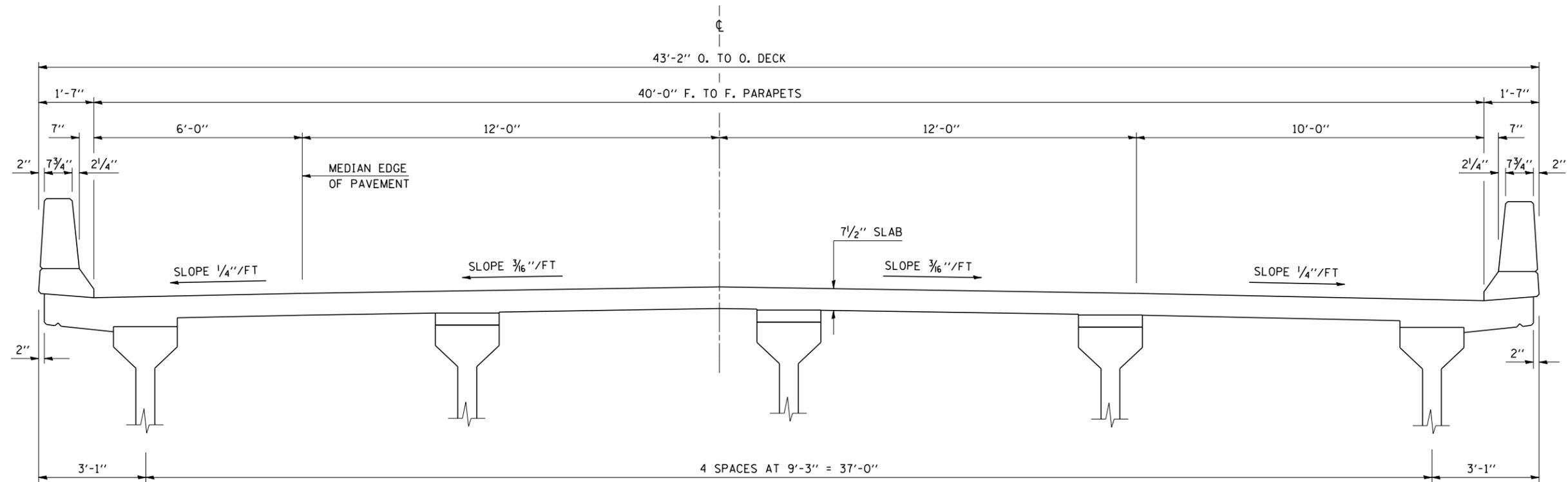
DRAWN BY: JRP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-BIBJR)

SHEET 2 OF 7

SUPERSTRUCTURE



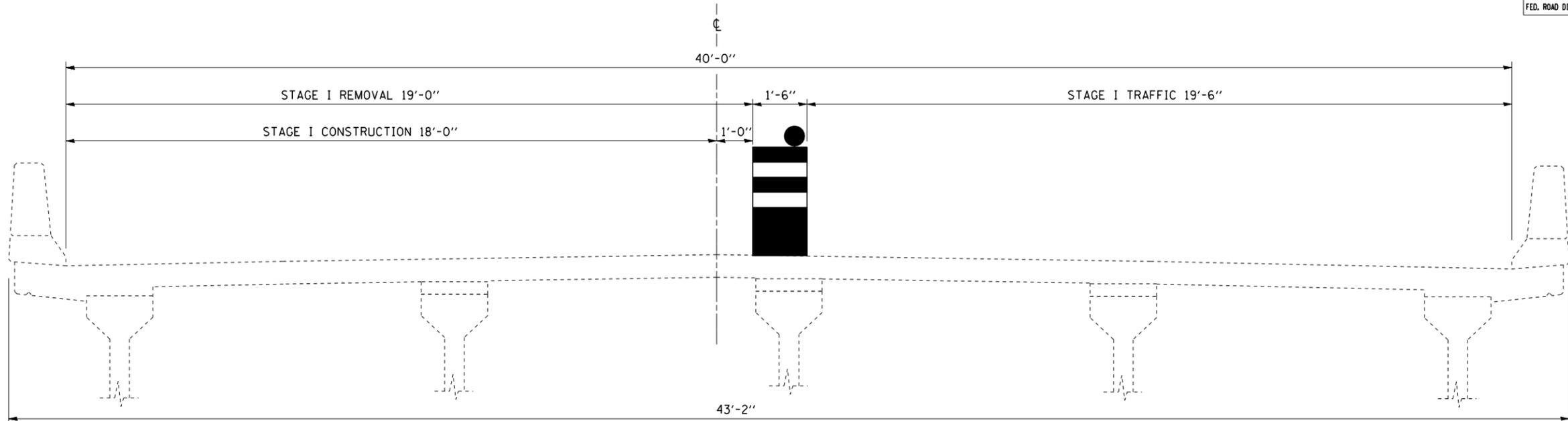
EXISTING & PROPOSED TYPICAL CROSS SECTION

S.N. 020-0053
(SB LOOKING SOUTH)

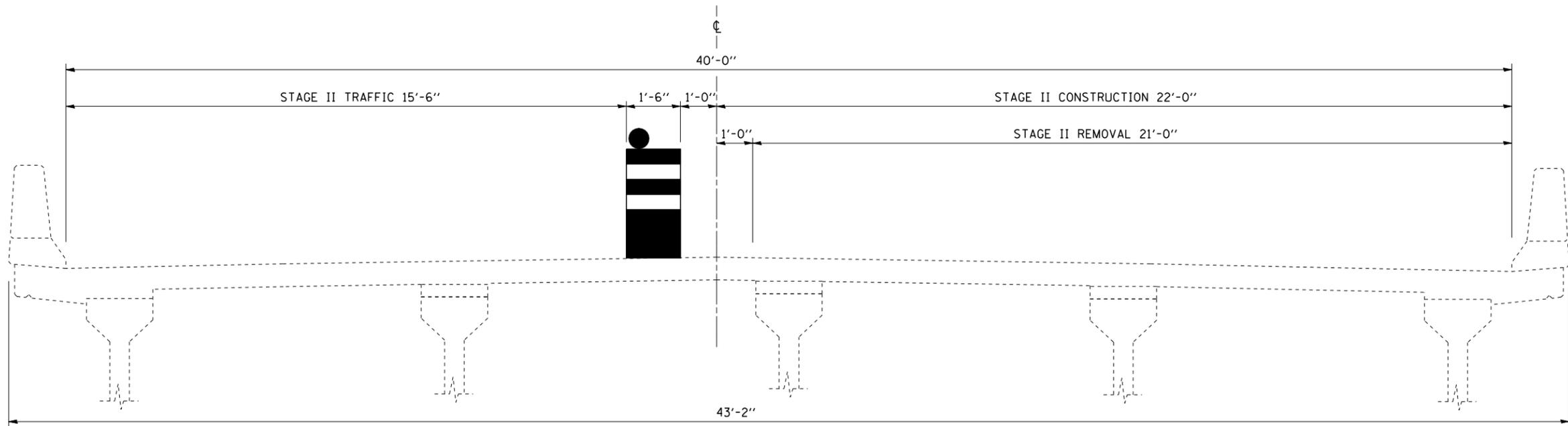
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 PLOT SCALE = 42.3525' / IN.
 USER NAME = creigr

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-BIBJR)
 DEWITT COUNTY
 S.N. 020-0053
 SCALE: NA DRAWN BY: JRP
 DATE: 11/03/06 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE I CONSTRUCTION
S.N. 020-0053
(LOOKING SOUTH)



STAGE I CONSTRUCTION
S.N. 020-0053
(LOOKING SOUTH)

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0053

SCALE: NA
 DATE: 11/08/06
 DRAWN BY: JRP
 CHECKED BY:

PLOT DATE : 12/21/2006
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 USER NAME : creig

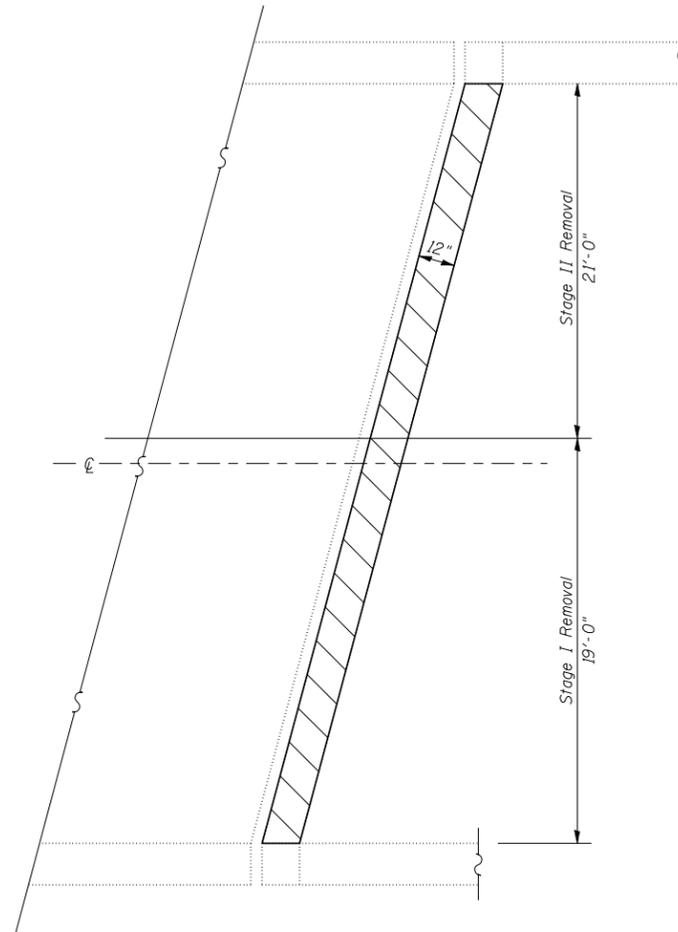
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322	*	DEWITT	35	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

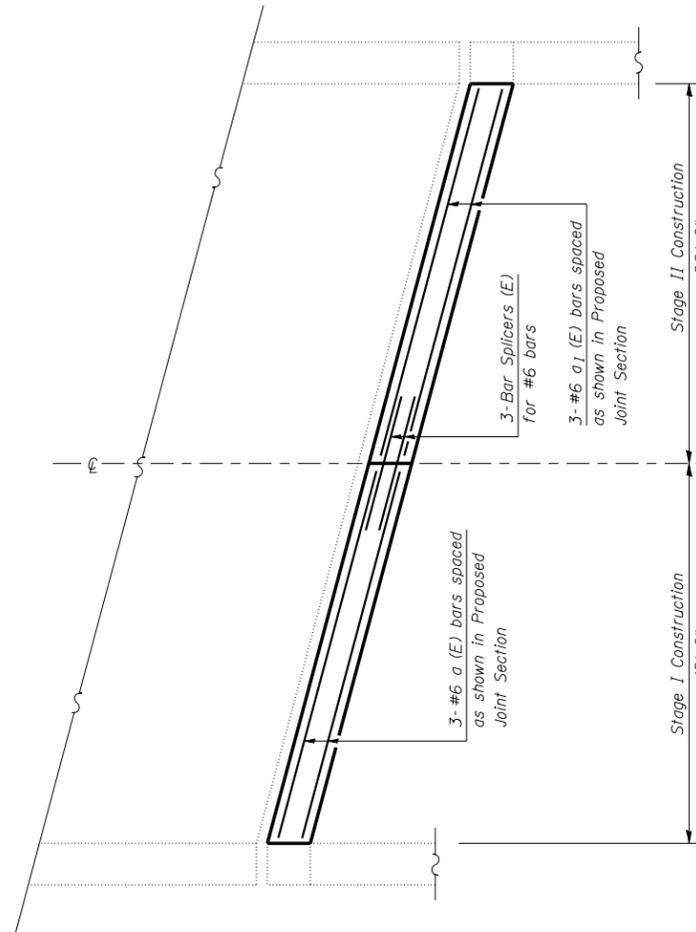
SHEET 4 OF 7

JOINT REPAIR AT NORTH ABUTMENT

S.N. 020-0053



EXISTING PARTIAL PLAN
Joint at North Abutment



PROPOSED PARTIAL PLAN
Joint at North Abutment

Concrete Removal

BAR LIST

Bar	No.	Size	Length	Shape
a (E)	3	#6	18'-10"	—
a1 (E)	3	#6	23'-2"	—

Reinforcement bars designated (E) shall be epoxy coated.

Hatched areas indicates Concrete Removal.

See Sheet 5 of 7 for Proposed Joint Section.

PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\0510306 (v81)\70593b-edgeset.dwg
 PLOT SCALE : 42,352% / IN.
 USER NAME : creig@

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT NORTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0053

SCALE: NA DRAWN BY: JRP
 DATE: 11/06/06 CHECKED BY:

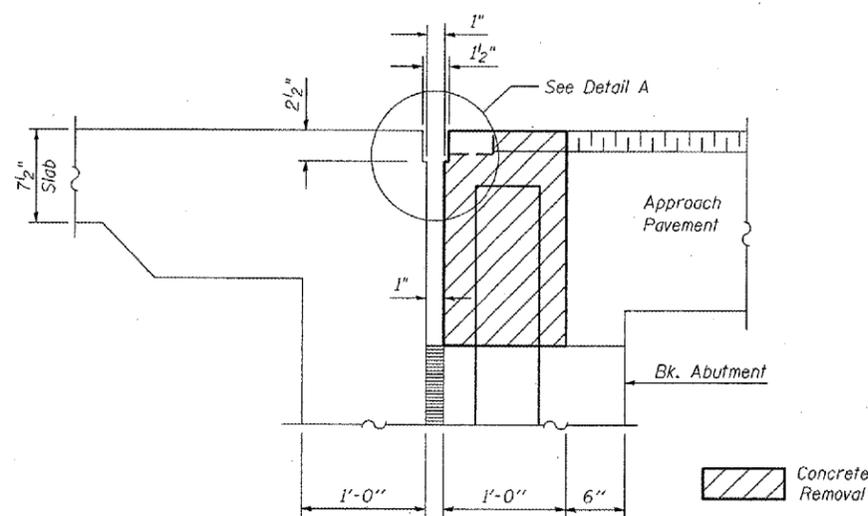
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

*152BR-1 & 53R-B1BJR

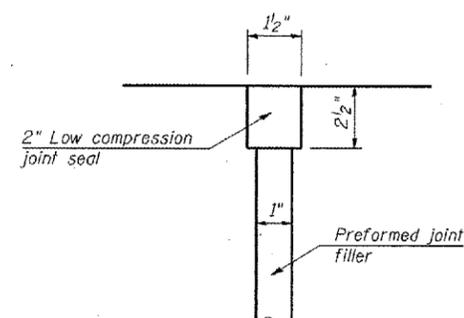
SHEET 5 OF 7

JOINT REPAIR AT NORTH ABUTMENT

S.N. 020-0053



EXISTING SECTION AT NORTH ABUTMENT



DETAIL A EXISTING JOINT

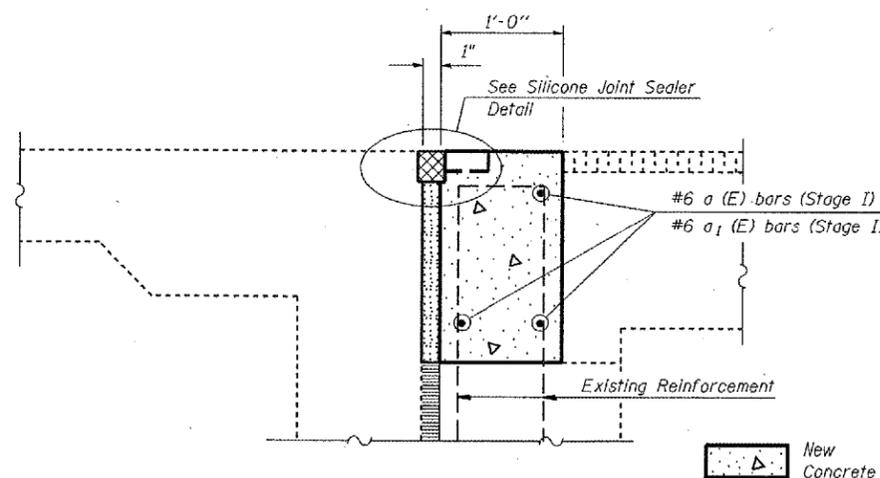
BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.6
Concrete Superstructure	Cu. Yd.	2.6
Reinforcement Bars, Epoxy Coated	Pound	190
Bar Splicers	Each	3
Polymer Concrete	Cu. Ft.	1.6
Silicone Joint Sealer, 1 1/2"	Foot	43

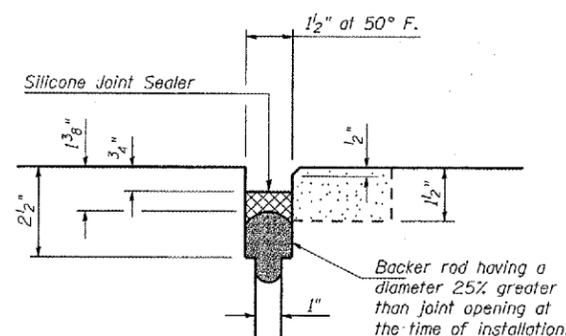
Notes:

Remove existing low compression joint seal and preformed joint filler to the depth of concrete removal, replace with Silicone Joint Sealer.

Removal of the low compression joint seal and preformed joint filler is included in the cost of Silicone Joint Sealer.



PROPOSED SECTION AT NORTH ABUTMENT



SILICONE JOINT SEALER DETAIL

PLOT DATE: 12/21/2008
 FILE NAME: c:\pwworkspace\118396\118396.dwg
 PLOT SCALE: 1/8" = 1'-0"
 USER NAME: c:\pwworkspace\118396\118396.dwg

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT NORTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION 152BR-1 & 53R-B1BJR
 DEWITT COUNTY
 S.N. 020-0053

SCALE: NA
 DATE: 11/06/06
 DRAWN BY: JRP
 CHECKED BY:

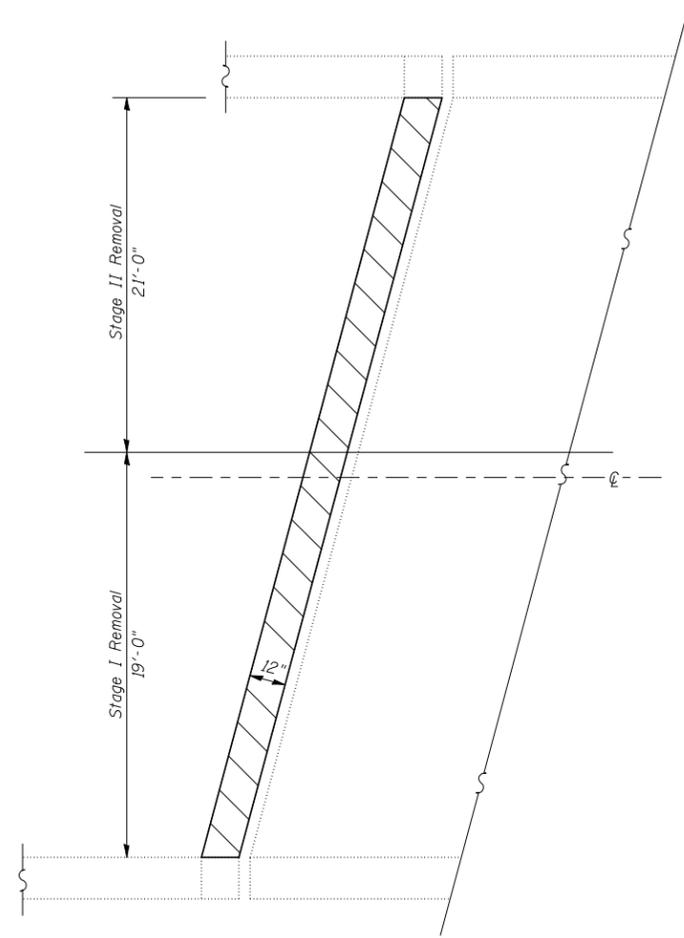
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

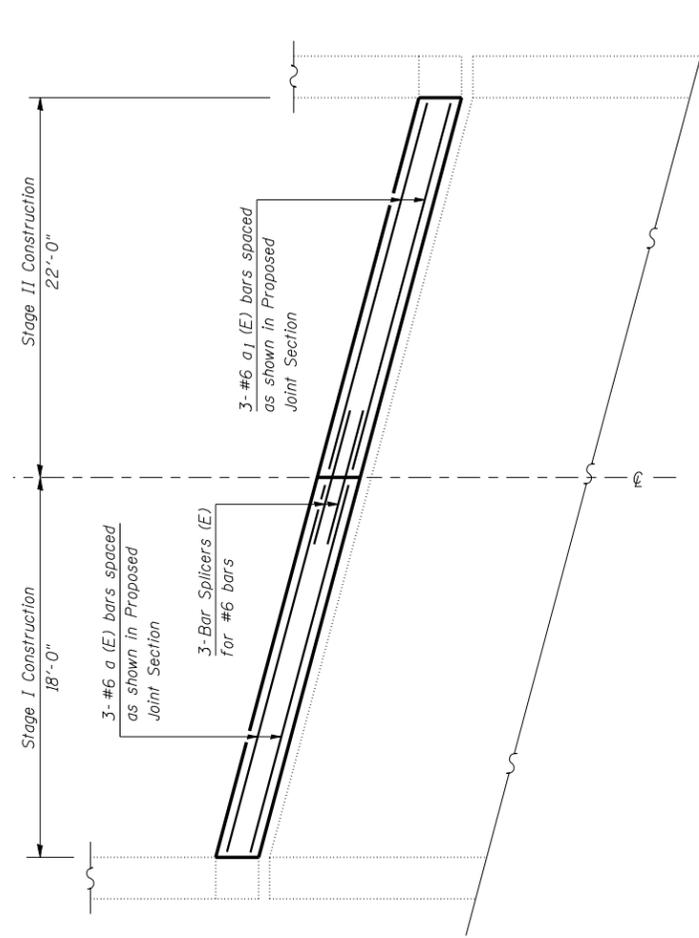
SHEET 6 OF 7

JOINT REPAIR AT SOUTH ABUTMENT

S.N. 020-0053



EXISTING PARTIAL PLAN
Joint at South Abutment



PROPOSED PARTIAL PLAN
Joint at South Abutment

BAR LIST

Bar	No.	Size	Length	Shape
a(E)	3	#6	18'-10"	—
a1(E)	3	#6	23'-2"	—

Reinforcement bars designated (E) shall be epoxy coated.

Hatched areas indicates Concrete Removal.

See Sheet 7 of 7 for Section Thru Parapet and Proposed Joint Section.

Concrete Removal

PLOT DATE : 12/21/2006
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 PLOT SCALE : 42.3525' / IN.
 USER NAME : creigr

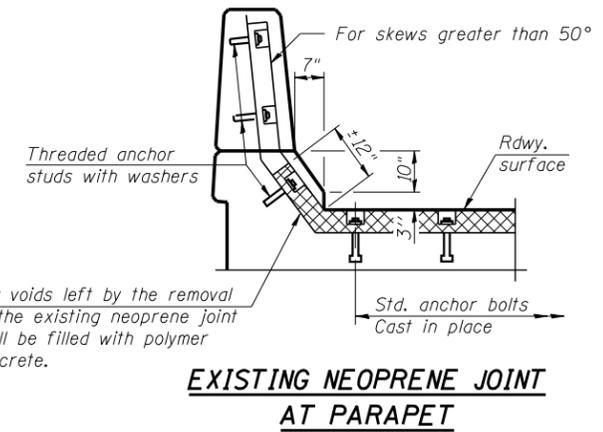
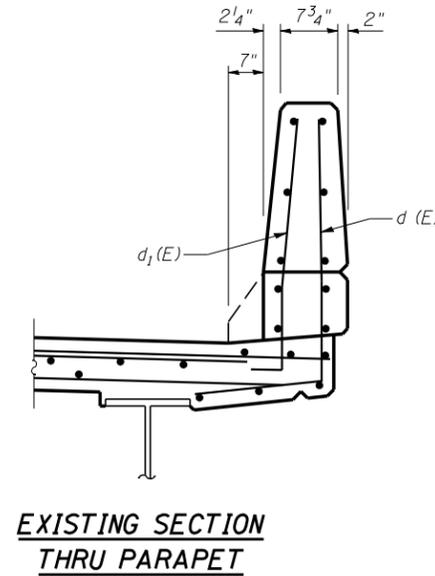
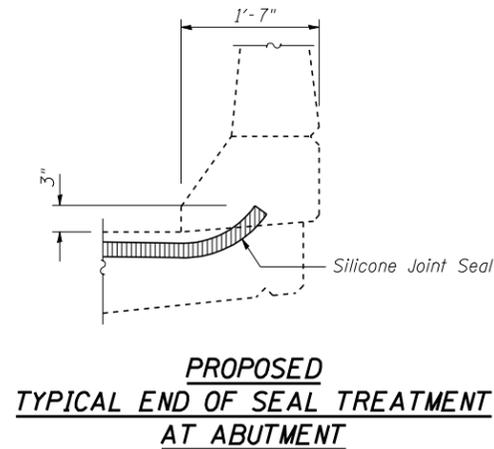
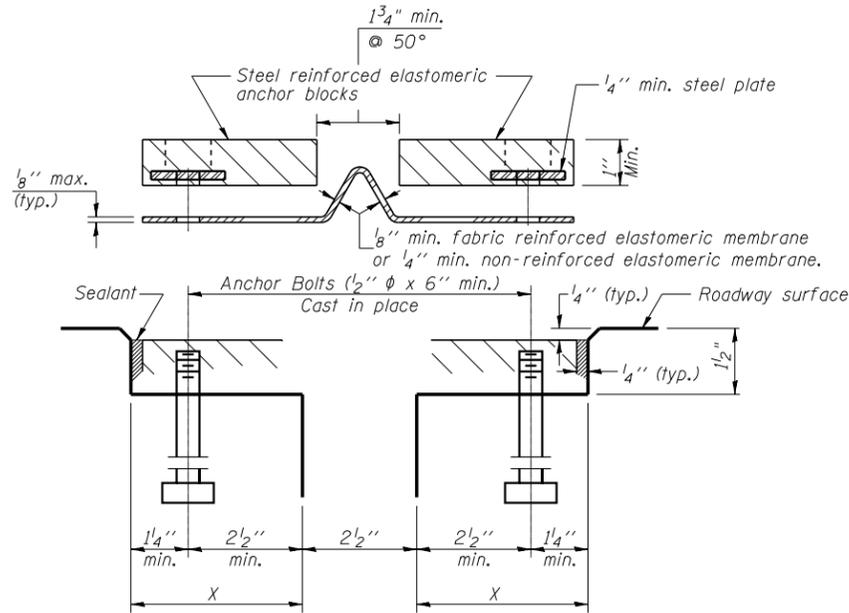
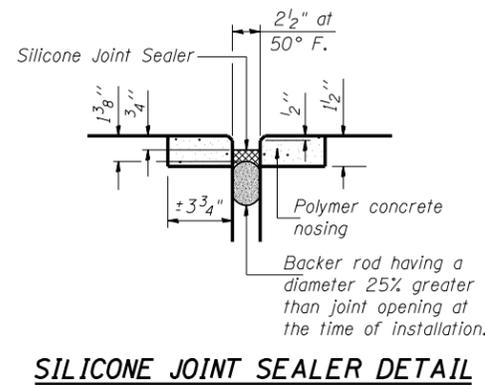
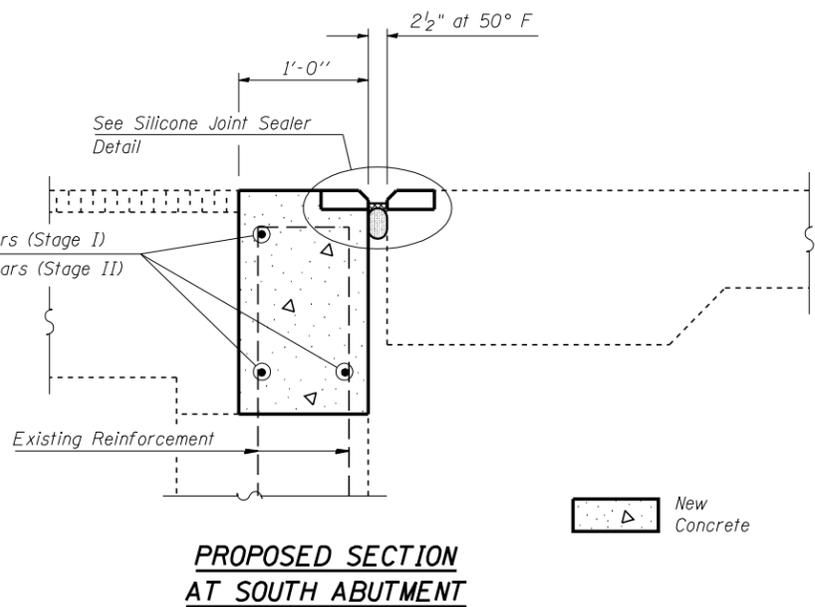
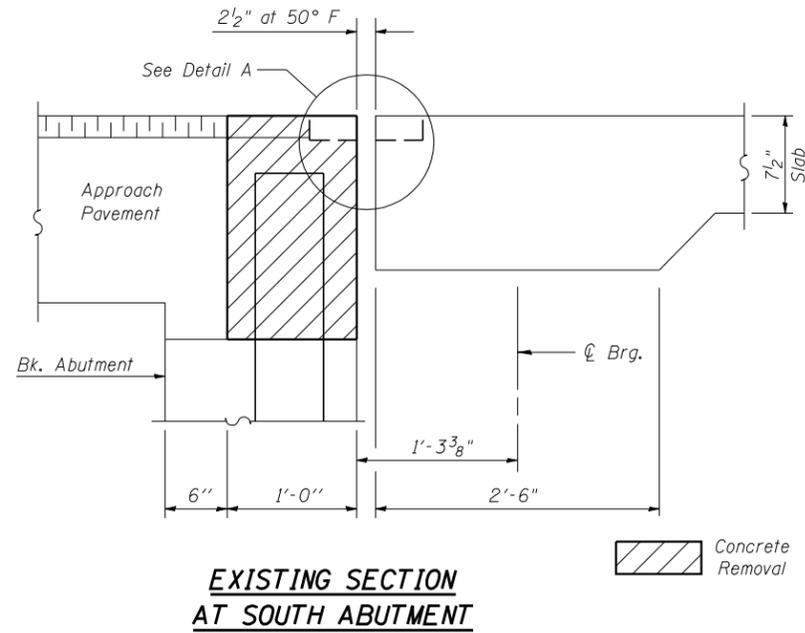
ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT SOUTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0053

SCALE: NA DRAWN BY: JRP
 DATE: 11/08/06 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	19
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		* (52BR-1 & 53R-B)BJR		

JOINT REPAIR AT SOUTH ABUTMENT

S.N. 020-0053



BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.6
Concrete Superstructure	Cu. Yd.	2.6
Reinforcement Bars, Epoxy Coated	Pound	190
Bar Splicers	Each	3
Polymer Concrete	Cu. Ft.	3.6
Silicone Joint Sealer, 2 1/2"	Foot	45

Notes:

Remove existing neoprene expansion joint leaving existing anchor bolts on the bridge deck portion, replace with Silicone Joint Sealer and Polymer Concrete.

Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT SOUTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0053

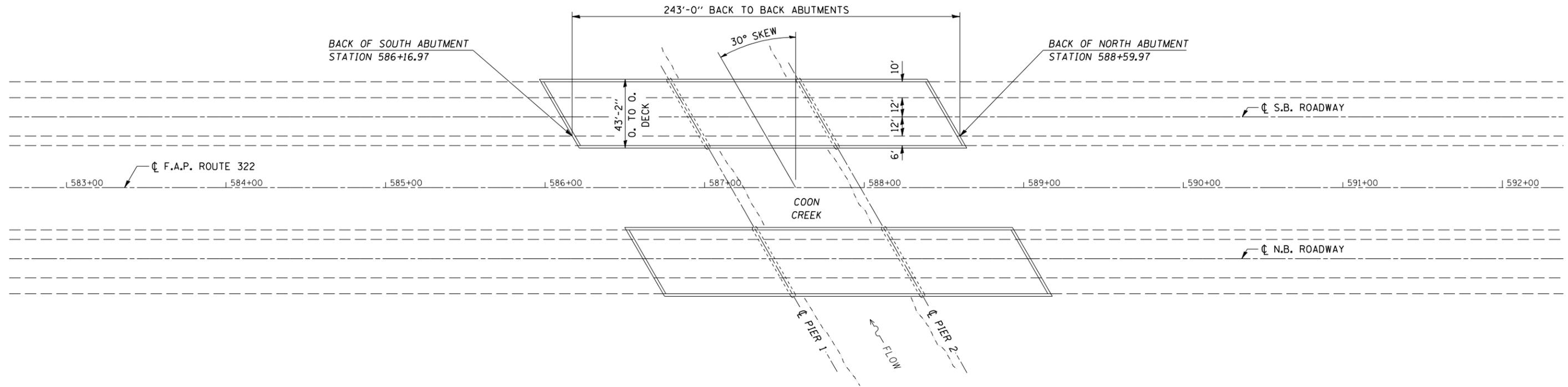
SCALE: NA DRAWN BY: JRP
 DATE: 11/08/06 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	20
STA. 583+00		TO STA. 592+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

SHEET 1 OF 7

GENERAL PLAN



PLAN VIEW S.N. 020-0056 N.B. S.N. 020-0055 S.B.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIALS

ITEM	UNITS	S. N. 020-0055 TOTAL
CONCRETE REMOVAL	CU YD	2.3
CONCRETE SUPERSTRUCTURE	CU YD	2.3
REINFORCEMENT BARS, EPOXY COATED	POUND	210
BAR SPLICERS	EACH	3
POLYMER CONCRETE	CU FT	7.6
SILICONE JOINT SEALER, 2"	FOOT	96.6

NOTE:
ORIGINALLY BUILT
AS SECTION 53R-B

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0055

SCALE: 1"=30'
DATE: 11/08/06

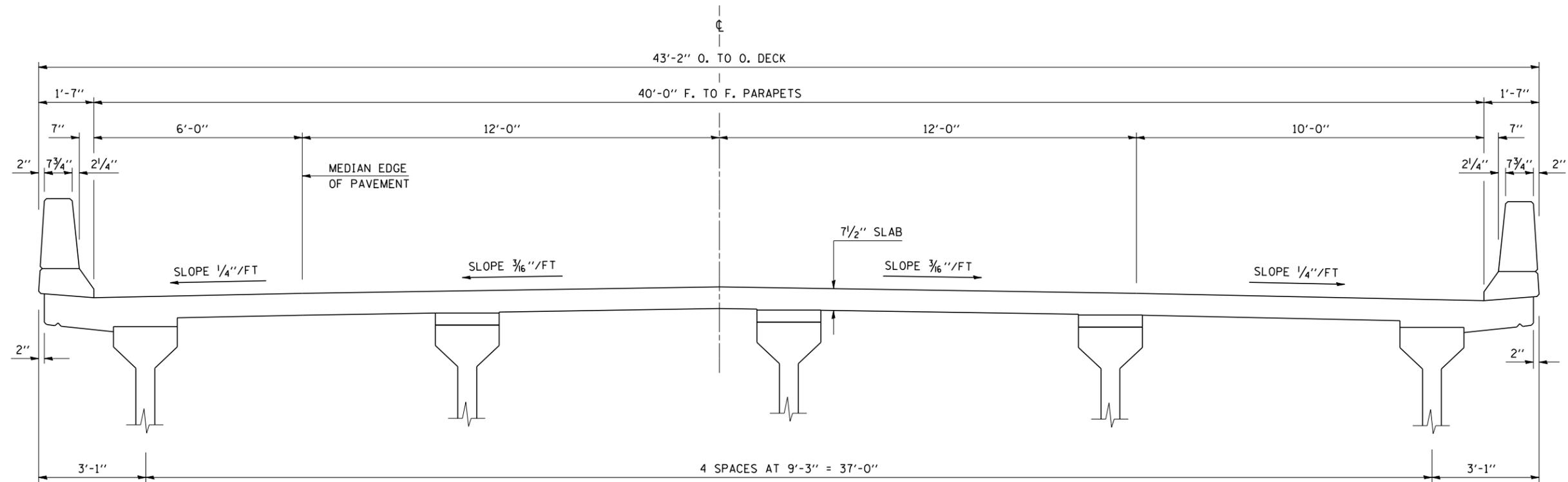
DRAWN BY: JRP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-BIBJR)

SHEET 2 OF 7

SUPERSTRUCTURE



EXISTING & PROPOSED TYPICAL CROSS SECTION

S.N. 020-0055
(SB LOOKING SOUTH)

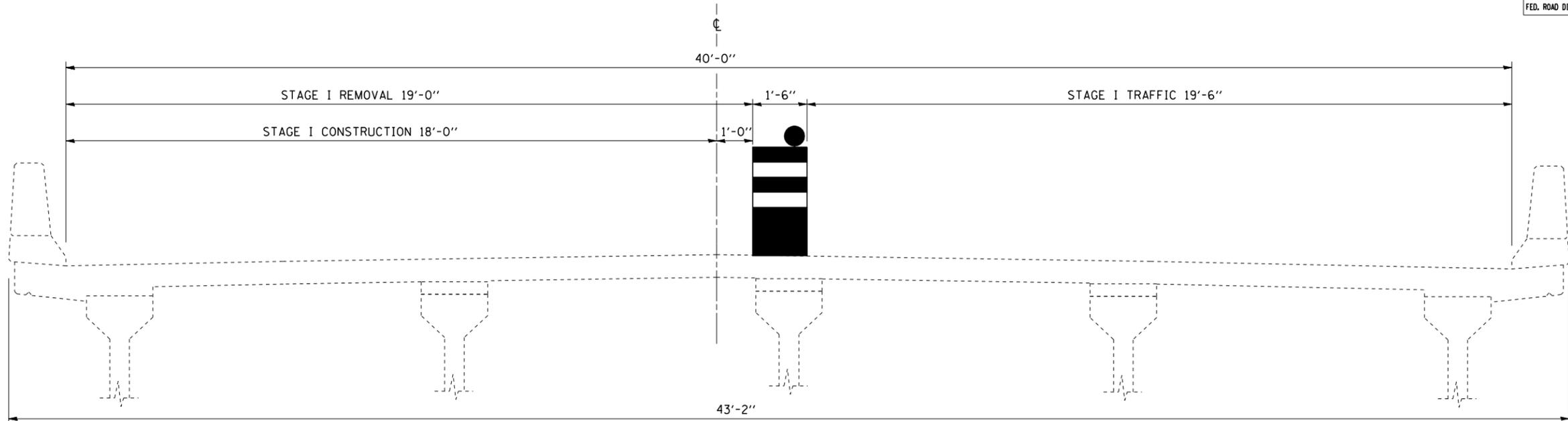
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 PLOT SCALE = 42,352% / IN.
 USER NAME = creigr

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-BIBJR)
 DEWITT COUNTY
 S.N. 020-0055
 SCALE: NA DRAWN BY: JRP
 DATE: 11/03/06 CHECKED BY:

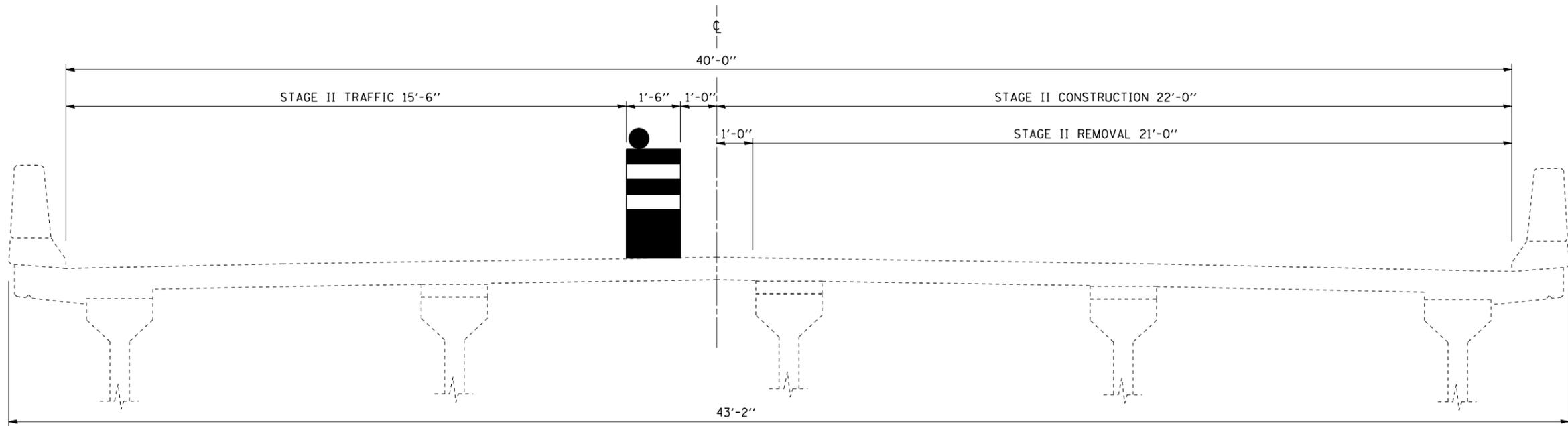
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

SHEET 3 OF 7



**STAGE I CONSTRUCTION
S.N. 020-0055
(LOOKING SOUTH)**



**STAGE I CONSTRUCTION
S.N. 020-0055
(LOOKING SOUTH)**

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0055

SCALE: NA
DATE: 11/08/06
DRAWN BY: JRP
CHECKED BY:

PLOT DATE : 12/21/2006
FILE NAME : c:\projects\0510306 (v81)70593b-edges\0510306.dgn
PLOT SCALE : 42,352% / IN.
USER NAME : creig

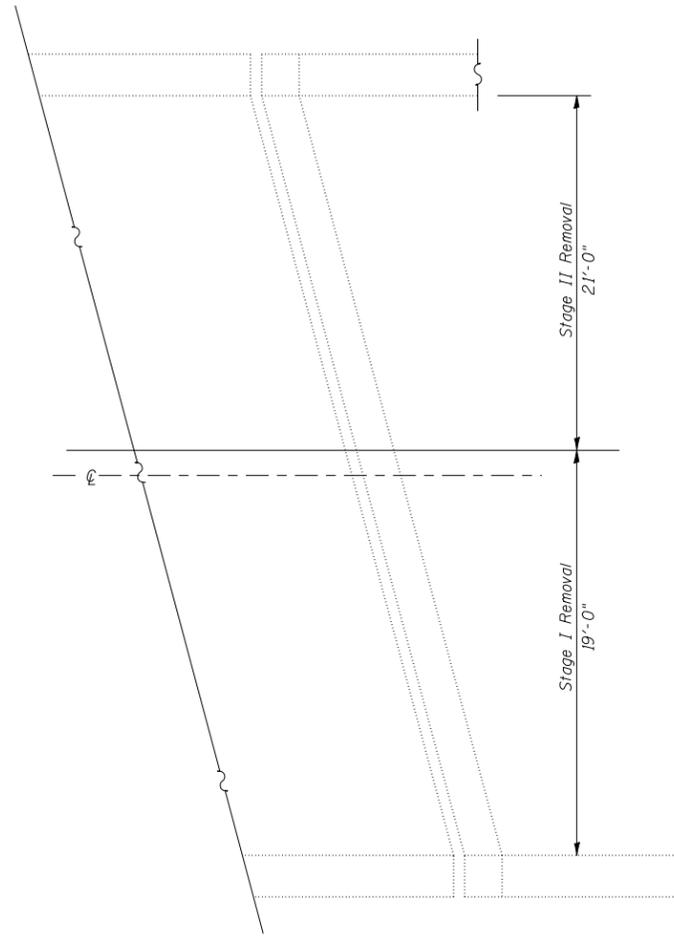
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

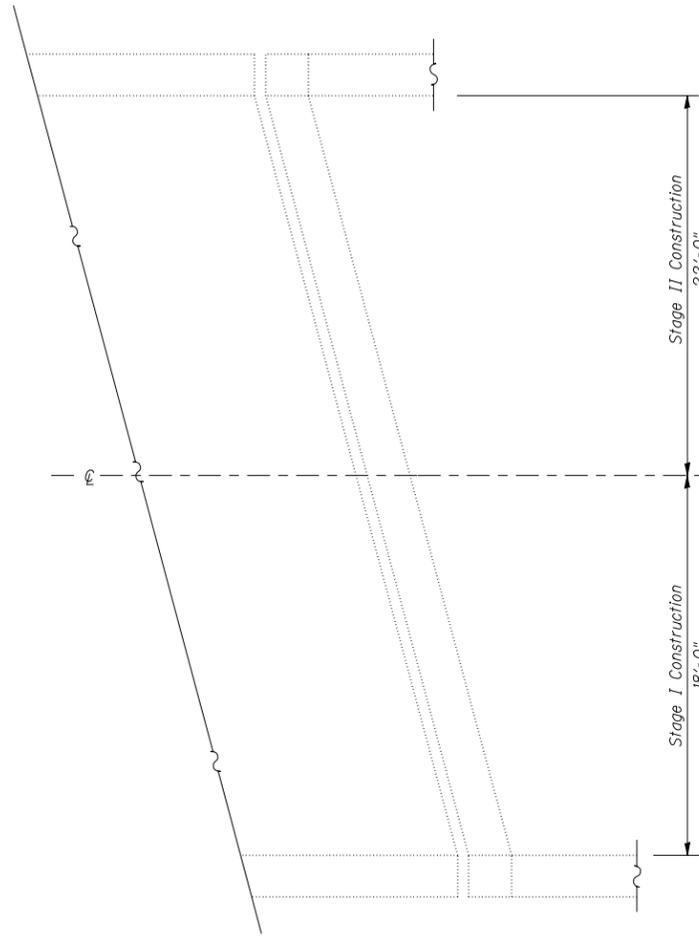
SHEET 4 OF 7

JOINT REPAIR AT NORTH ABUTMENT

S.N. 020-0055



EXISTING PARTIAL PLAN
Joint at North Abutment



PROPOSED PARTIAL PLAN
Joint at North Abutment

See Sheet 5 of 7 for Section Thru Parapet and Proposed Joint Section.

PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\70593\dwg\edgedata\1.s.dgn
 PLOT SCALE : 42.3525' / IN.
 USER NAME : creig@

ILLINOIS DEPARTMENT OF TRANSPORTATION	
JOINT REPAIR AT NORTH ABUTMENT	
F.A.P. ROUTE 322	
SECTION (52BR-1 & 53R-B)BJR	
DEWITT COUNTY	
S.N. 020-0055	
SCALE: NA	DRAWN BY: JRP
DATE: 11/08/06	CHECKED BY:

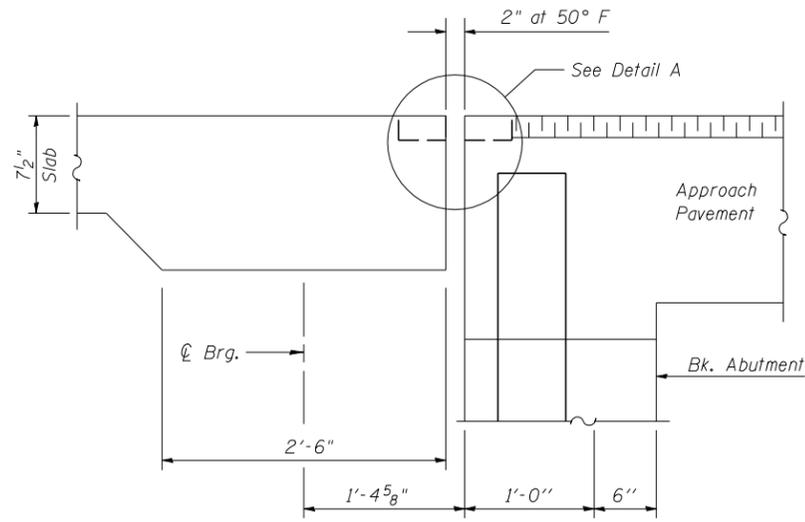
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

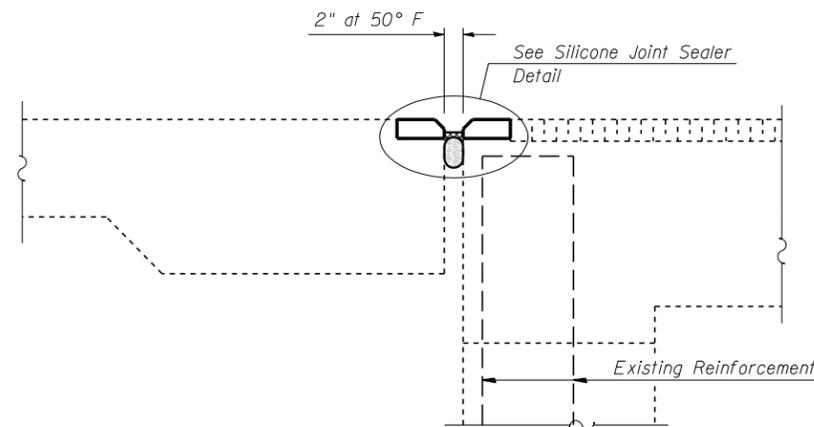
SHEET 5 OF 7

JOINT REPAIR AT NORTH ABUTMENT

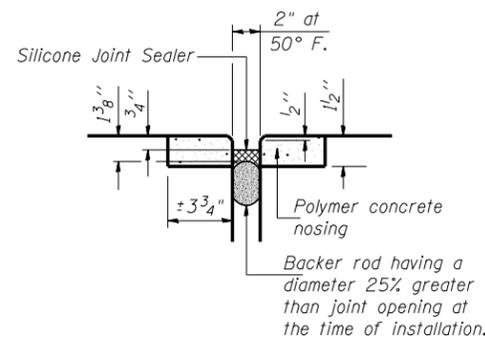
S.N. 020-0055



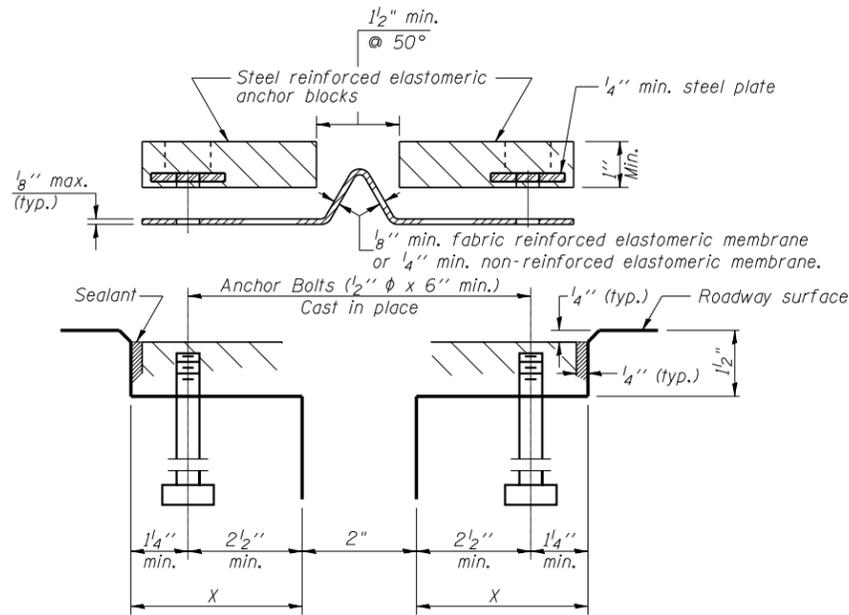
EXISTING SECTION AT NORTH ABUTMENT



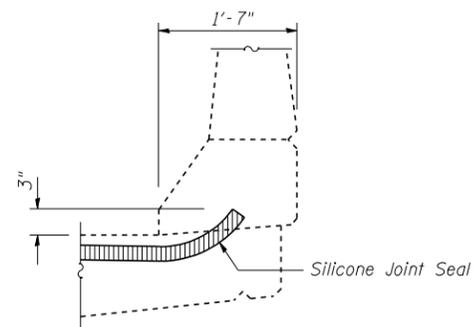
PROPOSED SECTION AT NORTH ABUTMENT



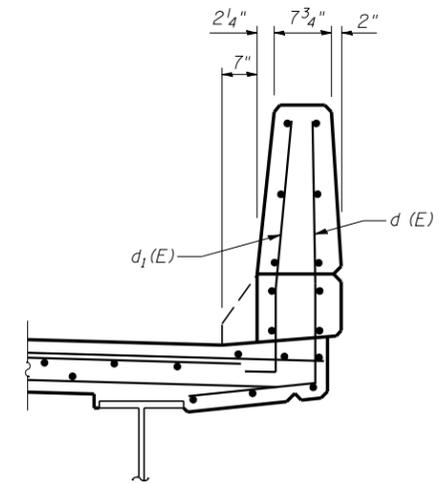
SILICONE JOINT SEALER DETAIL



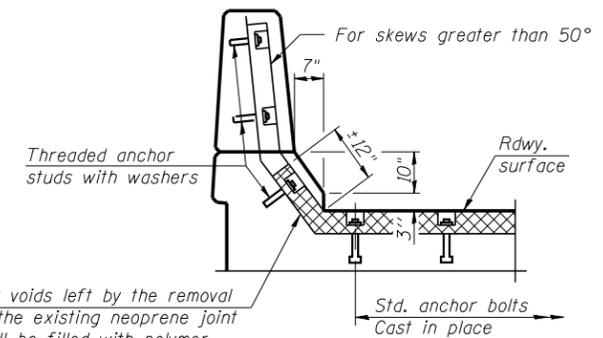
CROSS SECTION DETAIL A EXISTING JOINT



PROPOSED TYPICAL END OF SEAL TREATMENT AT ABUTMENT



EXISTING SECTION THRU PARAPET



EXISTING NEOPRENE JOINT AT PARAPET

BILL OF MATERIALS

Item	Unit	Total
Polymer Concrete	Cu. Ft.	3.8
Silicone Joint Sealer	Foot	48.3

Notes:

Remove existing neoprene expansion joint leaving existing anchor bolts, replace with Silicone Joint Sealer and Polymer Concrete.

Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT NORTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0055

SCALE: NA DRAWN BY: JRP
 DATE: 11/08/06 CHECKED BY:

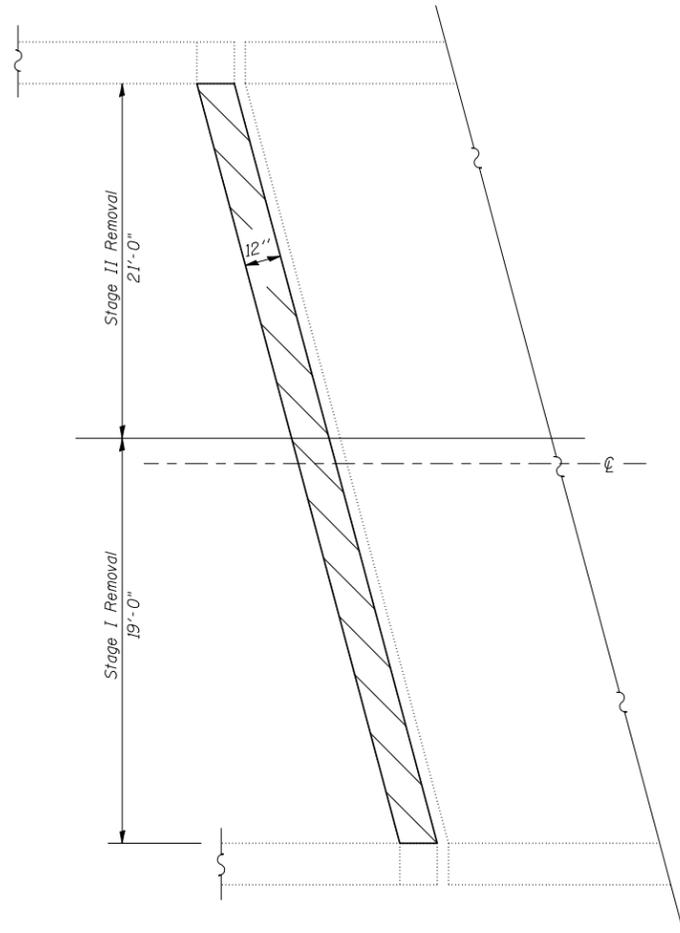
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

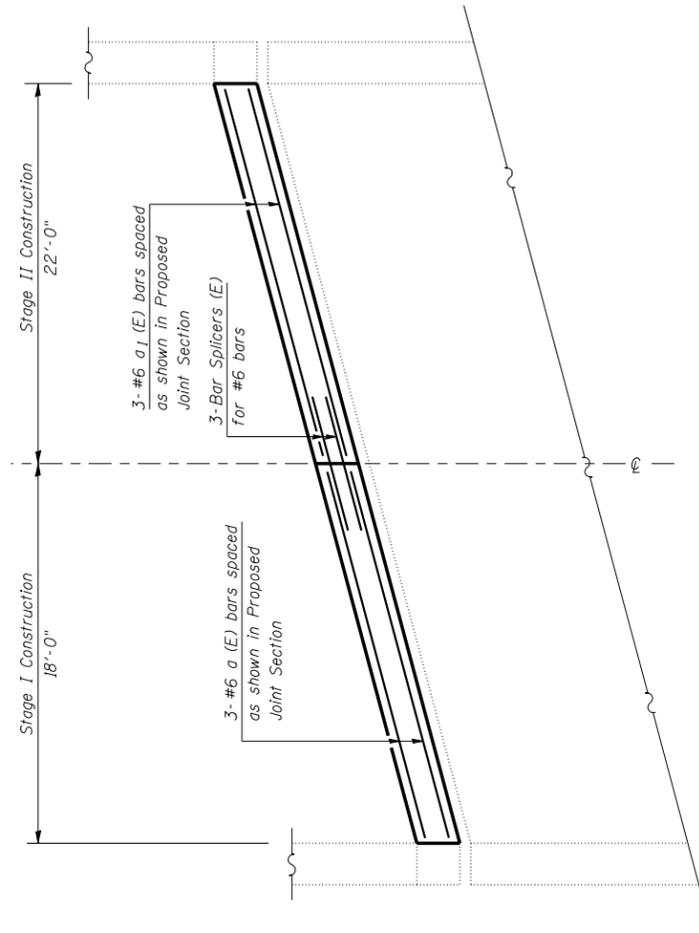
SHEET 6 OF 7

JOINT REPAIR AT SOUTH ABUTMENT

S.N. 020-0055



EXISTING PARTIAL PLAN
Joint at South Abutment



PROPOSED PARTIAL PLAN
Joint at South Abutment

Concrete Removal

BAR LIST

Bar	No.	Size	Length	Shape
a (E)	3	#6	20'-6"	—
a1 (E)	3	#6	25'-2"	—

Reinforcement bars designated (E) shall be epoxy coated.

Hatched areas indicates Concrete Removal.

See Sheet 7 of 7 for Section Thru Parapet and Proposed Joint Section.

PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\0510306 (v81)70593b-edgeset.plt.dgn
 PLOT SCALE : 42,352% / IN.
 USER NAME : creig@

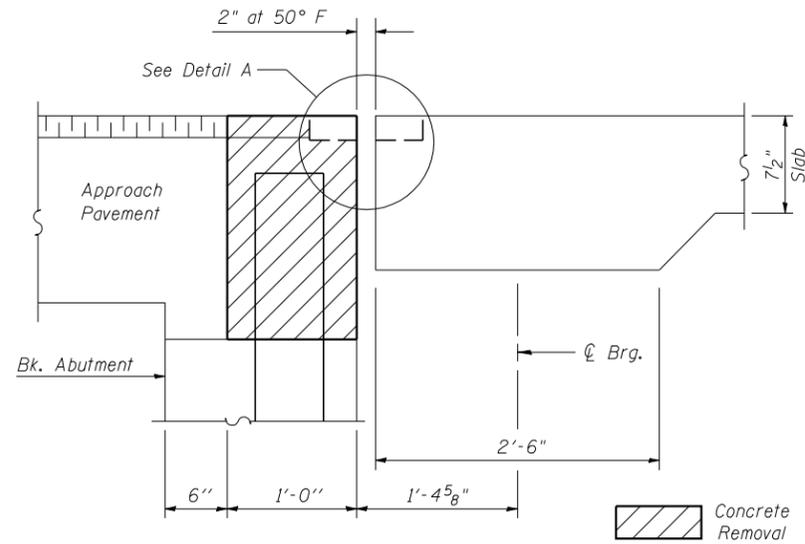
ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT SOUTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0055

SCALE: NA DRAWN BY: JRP
 DATE: 11/08/06 CHECKED BY:

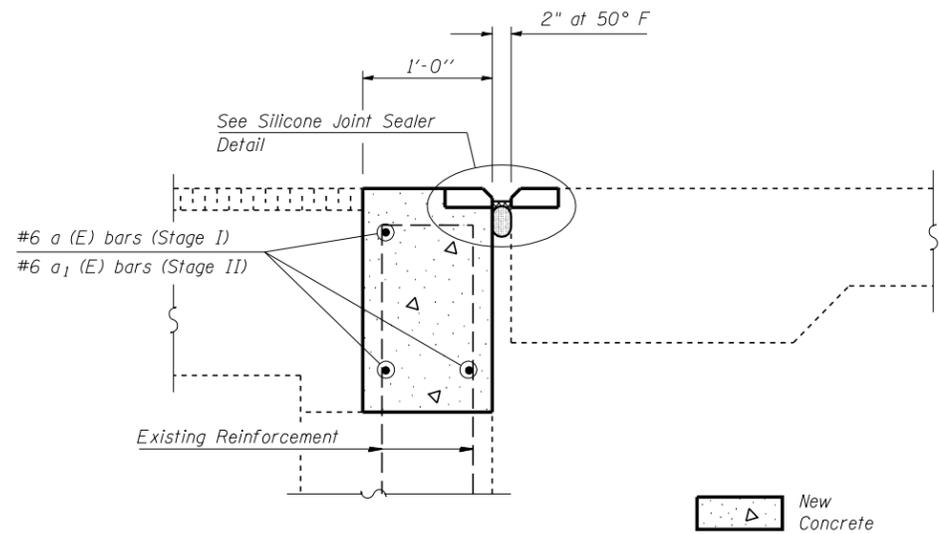
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (52BR-1 & 53R-B)BJR				

JOINT REPAIR AT SOUTH ABUTMENT

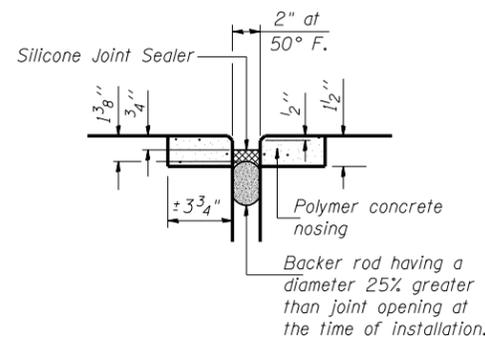
S.N. 020-0055



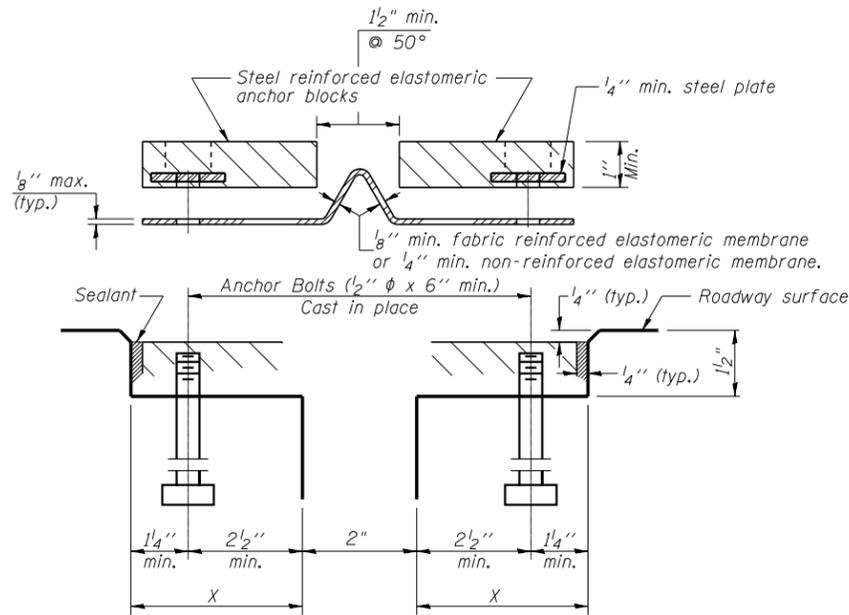
EXISTING SECTION AT SOUTH ABUTMENT



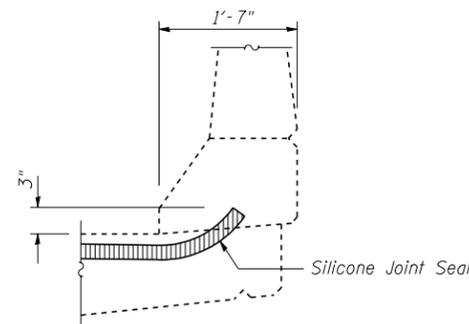
PROPOSED SECTION AT SOUTH ABUTMENT



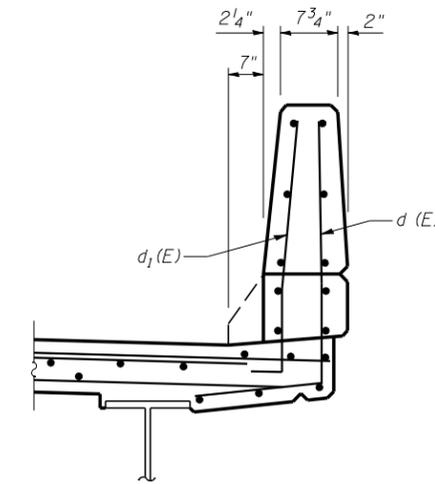
SILICONE JOINT SEALER DETAIL



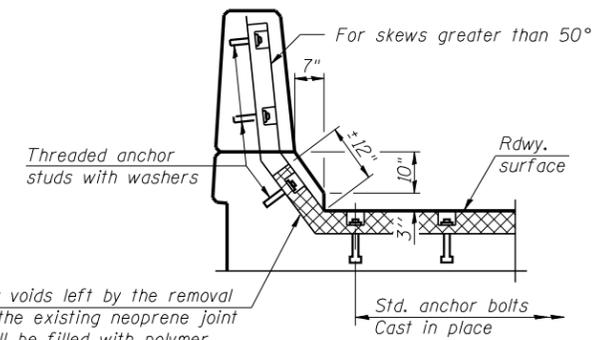
CROSS SECTION DETAIL A EXISTING JOINT



PROPOSED TYPICAL END OF SEAL TREATMENT AT ABUTMENT



EXISTING SECTION THRU PARAPET



Any voids left by the removal of the existing neoprene joint shall be filled with polymer concrete.

EXISTING NEOPRENE JOINT AT PARAPET

BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.3
Concrete Superstructure	Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated	Pound	210
Bar Splicers	Each	3
Polymer Concrete	Cu. Ft.	3.8
Silicone Joint Sealer, 2"	Foot	48.3

Notes:

Remove existing neoprene expansion joint leaving existing anchor bolts on the bridge deck portion, replace with Silicone Joint Sealer and Polymer Concrete.

Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT SOUTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0055

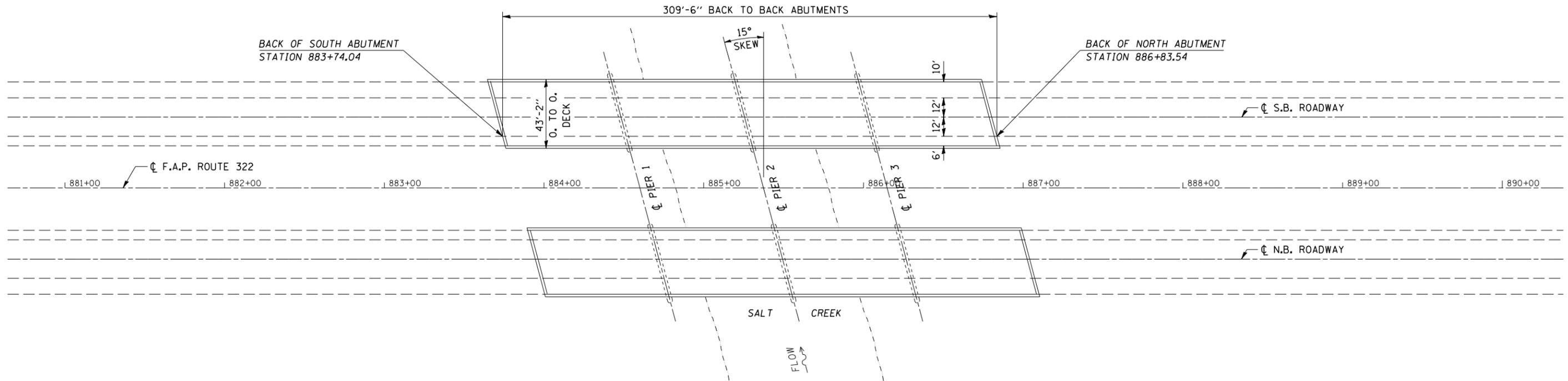
SCALE: NA
 DATE: 11/08/06
 DRAWN BY: JRP
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	27
STA. 881+00		TO STA. 890+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*(52BR-1 & 53R-B)BJR				

GENERAL PLAN



SHEET 1 OF 8



PLAN VIEW S.N. 020-0057 N.B. S.N. 020-0005 S.B.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

TOTAL BILL OF MATERIALS		
ITEM	UNITS	S. N. 020-0005 TOTAL
POLYMER CONCRETE	CU FT	6.9
SILICONE JOINT SEALER, 2"	FOOT	90.8

NOTE:
ORIGINALLY BUILT
AS SECTION 52BR-1

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0005

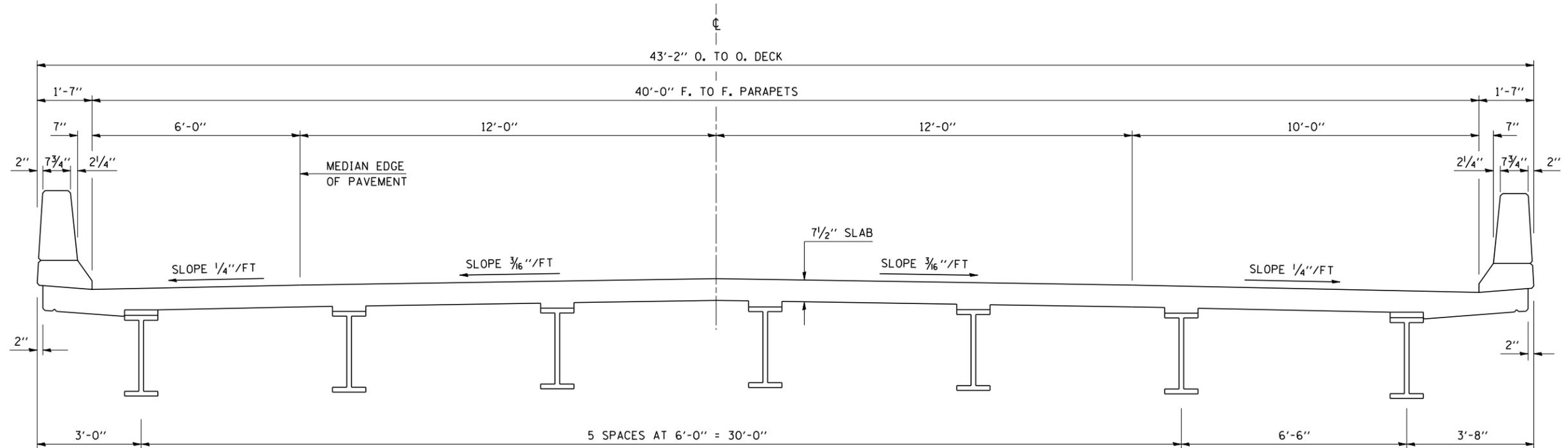
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DATE: 11/08/06 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

SHEET 2 OF 8

SUPERSTRUCTURE



EXISTING & PROPOSED TYPICAL CROSS SECTION

S.N. 020-0005
(SB LOOKING SOUTH)

PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\sb\10306 (sb)\70593b-edges.ctb.dgn
 PLOT SCALE : 42,352% / IN.
 USER NAME : creigr

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0005

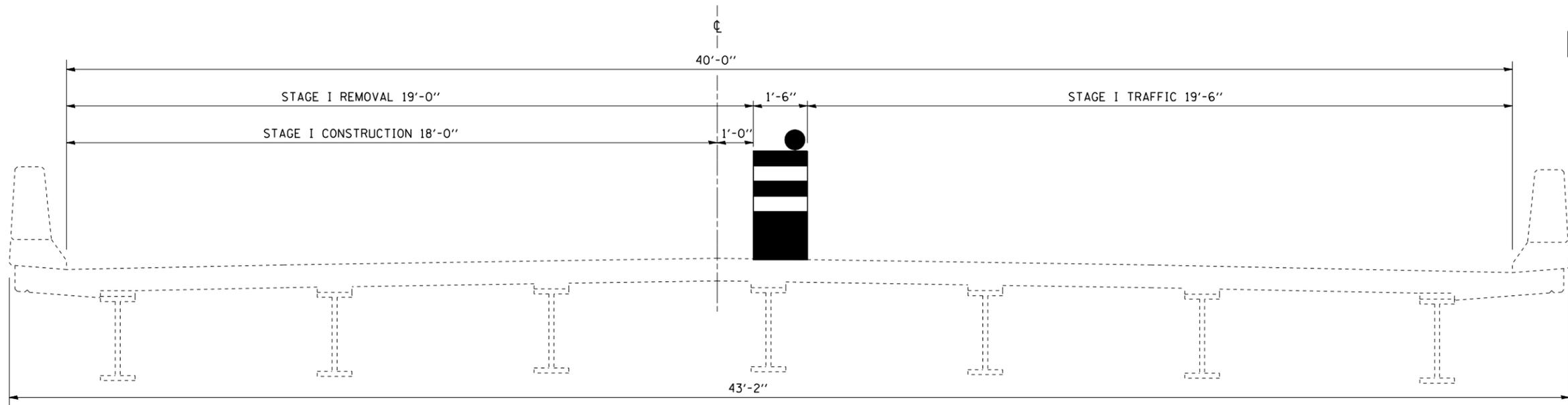
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DRAWN BY: JRP
 CHECKED BY:

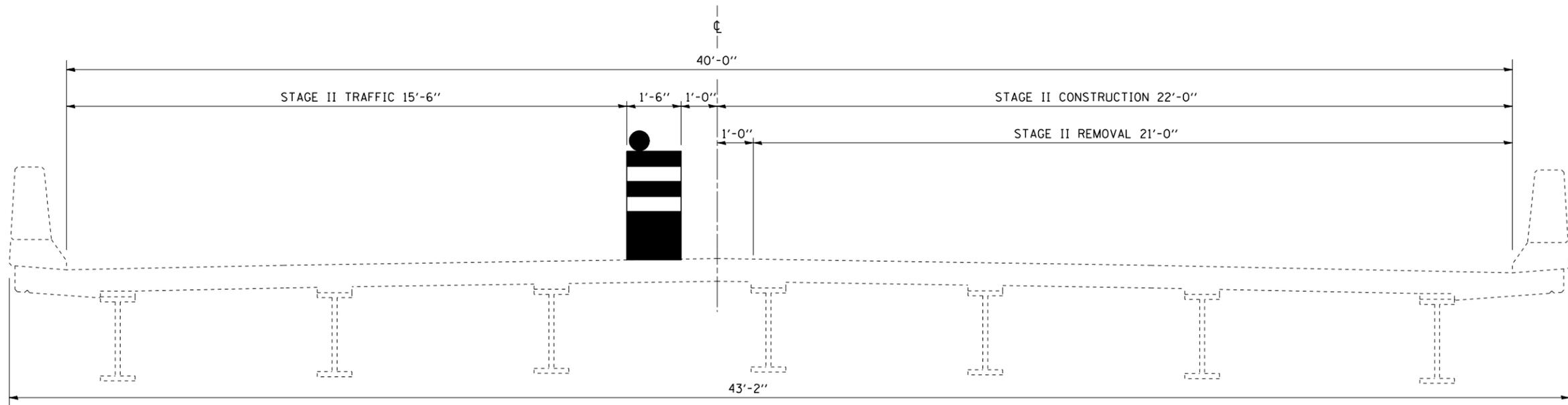
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

SHEET 3 OF 8



STAGE I CONSTRUCTION
S.N. 020-0005
(LOOKING SOUTH)



STAGE II CONSTRUCTION
S.N. 020-0005
(LOOKING SOUTH)

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0005
 SCALE: NA
 DATE: 11/08/06
 DRAWN BY: JRP
 CHECKED BY:

PLOT DATE : 12/21/2006
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 USER NAME : creig

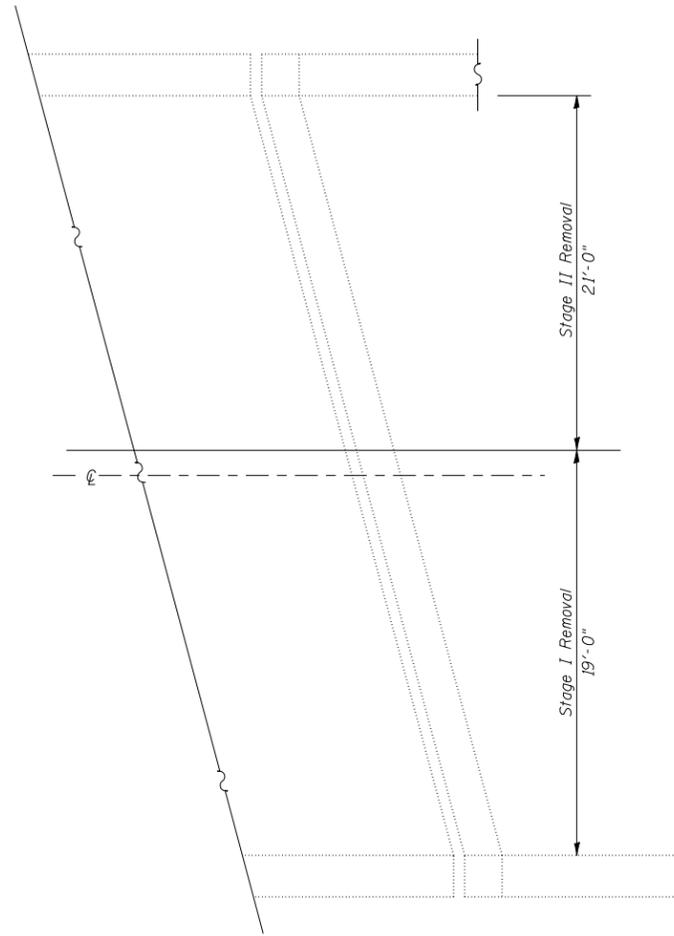
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

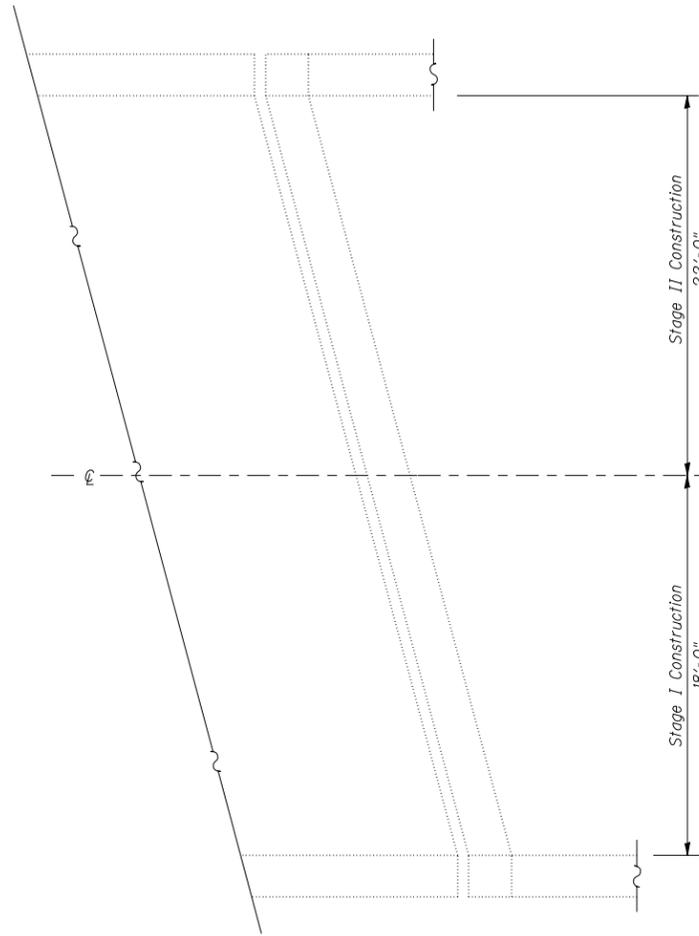
SHEET 4 OF 8

JOINT REPAIR AT NORTH ABUTMENT

S.N. 020-0005



EXISTING PARTIAL PLAN
Joint at North Abutment



PROPOSED PARTIAL PLAN
Joint at North Abutment

See Sheet 5 of 8 for Proposed Joint Section.
See Sheet 8 of 8 for Section Thru Parapet.

PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\510306 (v81)70593b-edges\011.svdg
 PLOT SCALE : 42.3525' / IN.
 USER NAME : creigr

ILLINOIS DEPARTMENT OF TRANSPORTATION	
JOINT REPAIR AT NORTH ABUTMENT	
F.A.P. ROUTE 322	
SECTION (52BR-1 & 53R-B)BJR	
DEWITT COUNTY	
S.N. 020-0005	
SCALE: NA	DRAWN BY: JRP
DATE: 11/08/06	CHECKED BY:

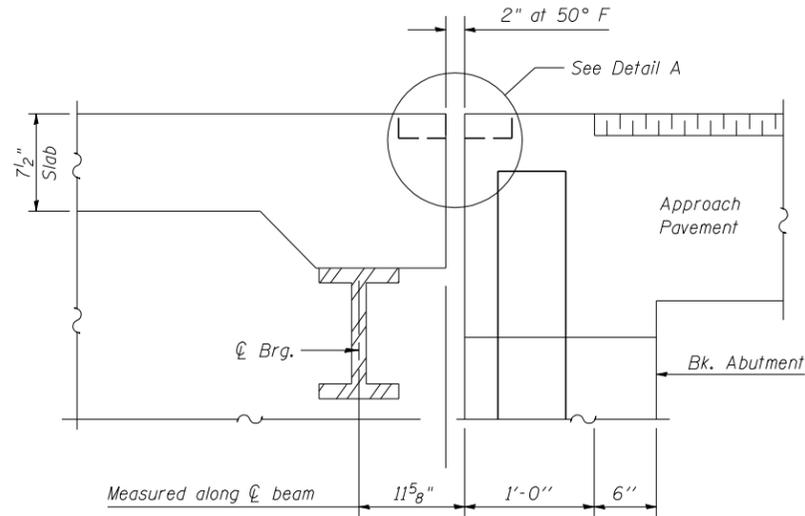
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

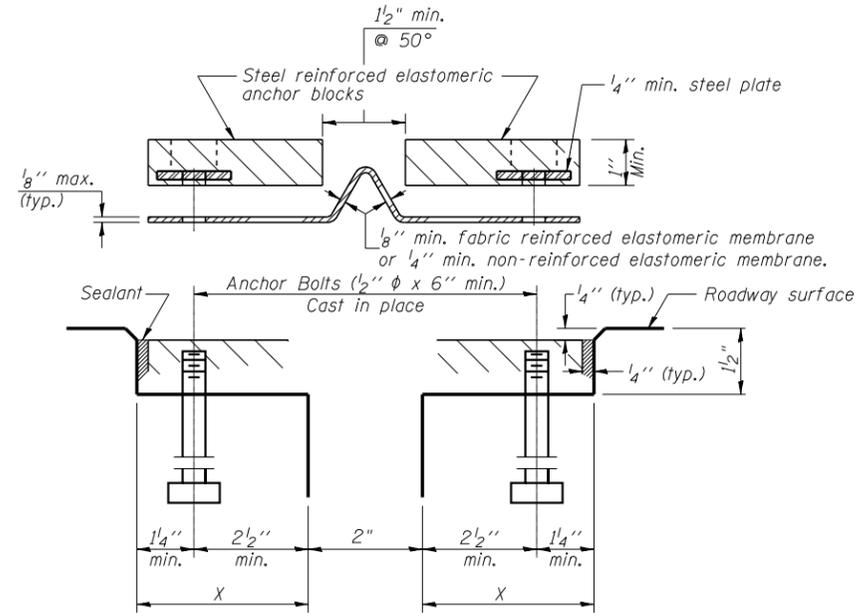
SHEET 5 OF 8

JOINT REPAIR AT NORTH ABUTMENT

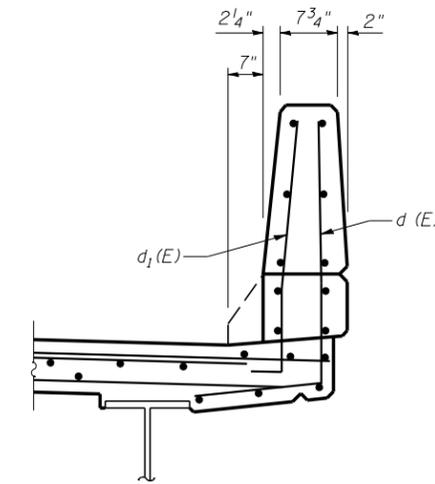
S.N. 020-0005



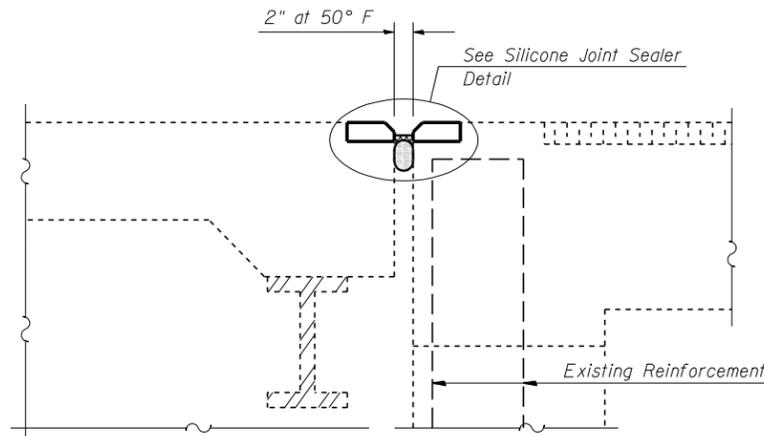
EXISTING SECTION AT NORTH ABUTMENT



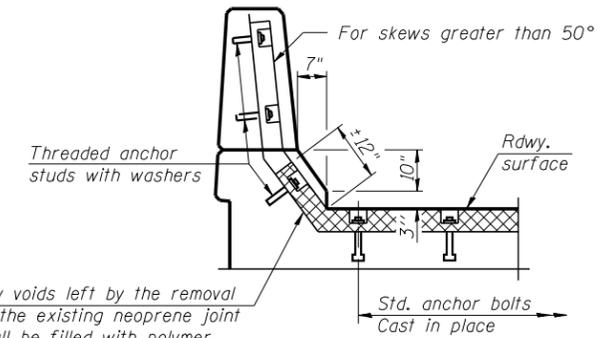
CROSS SECTION DETAIL A EXISTING JOINT



EXISTING SECTION THRU PARAPET



PROPOSED SECTION AT NORTH ABUTMENT

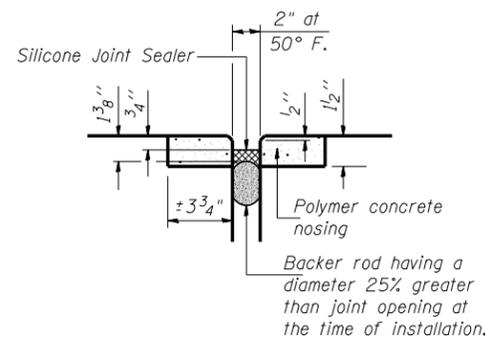


EXISTING NEOPRENE JOINT AT PARAPET

BILL OF MATERIALS

Item	Unit	Total
Polymer Concrete	Cu. Ft.	3.5
Silicone Joint Sealer, 2"	Foot	45.4

Note:
For proposed end of seal treatment at abutment, see sheet 8 of 8.



SILICONE JOINT SEALER DETAIL

Notes:

- Remove existing neoprene expansion joint leaving existing anchor bolts, replace with Silicone Joint Sealer and Polymer Concrete.
- Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT NORTH ABUTMENT
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 S.N. 020-0005
 SCALE: NA DRAWN BY: JRP
 DATE: 11/08/06 CHECKED BY:

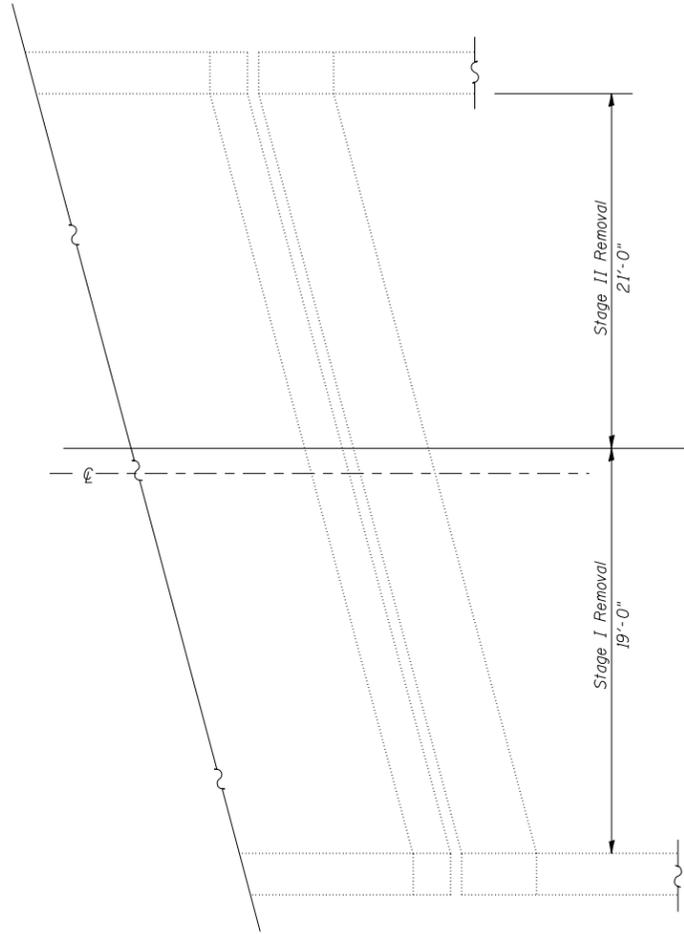
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (52BR-1 & 53R-B)BJR

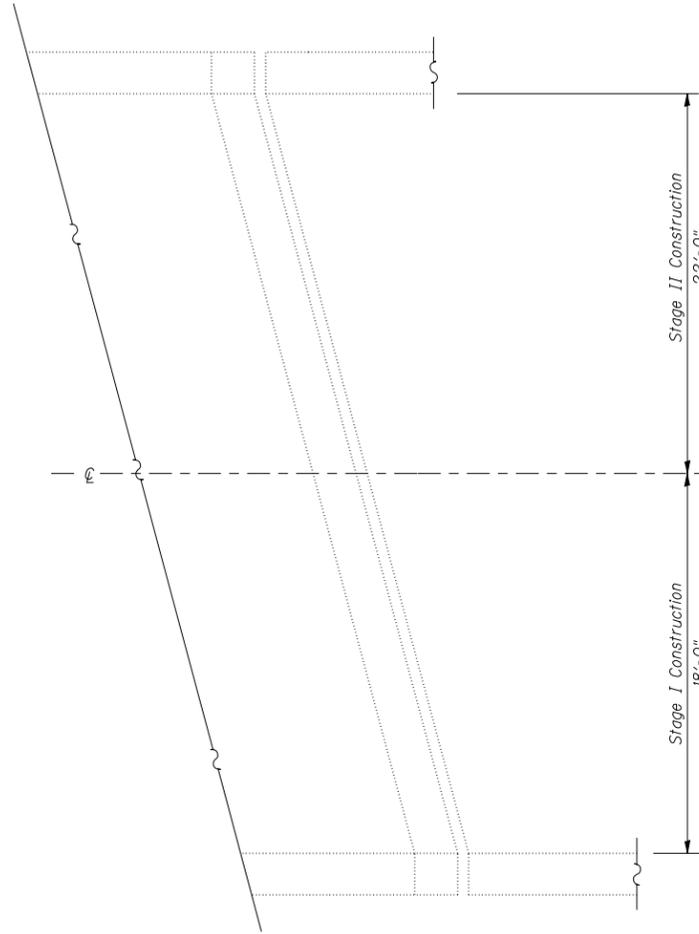
SHEET 6 OF 8

JOINT REPAIR AT SOUTH ABUTMENT

S.N. 020-0005



EXISTING PARTIAL PLAN
Joint at South Abutment



PROPOSED PARTIAL PLAN
Joint at South Abutment

See Sheet 7 of 8 for Proposed Joint Section.
See Sheet 8 of 8 for Section Thru Parapet.

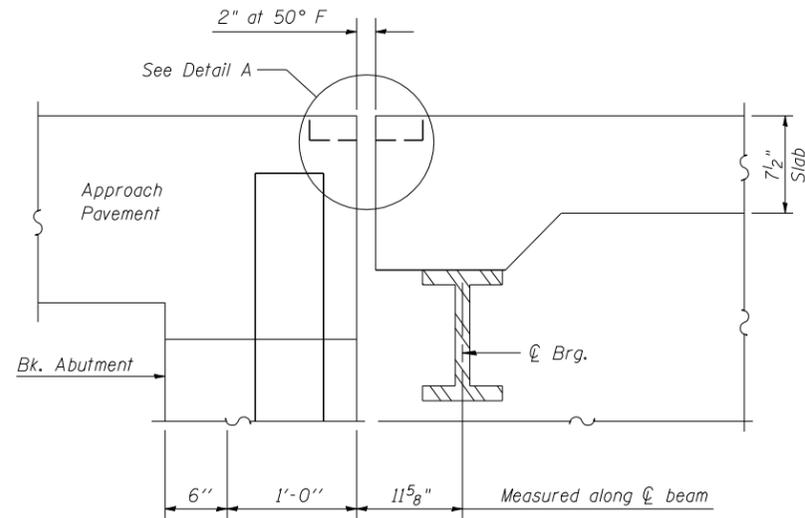
PLOT DATE : 12/21/2006
 FILE NAME : c:\projects\510306 (v81)\70593b-edgedetail.dgn
 PLOT SCALE : 42,352% / IN.
 USER NAME : creigr

ILLINOIS DEPARTMENT OF TRANSPORTATION	
JOINT REPAIR AT SOUTH ABUTMENT	
F.A.P. ROUTE 322	
SECTION (52BR-1 & 53R-B)BJR	
DEWITT COUNTY	
S.N. 020-0005	
SCALE: NA	DRAWN BY: JRP
DATE: 11/08/06	CHECKED BY:

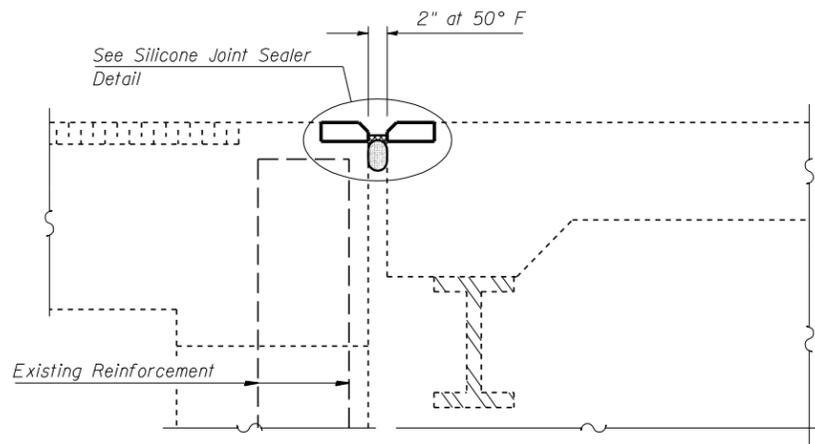
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	33
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		* (52BR-1 & 53R-B)BJR		

JOINT REPAIR AT SOUTH ABUTMENT

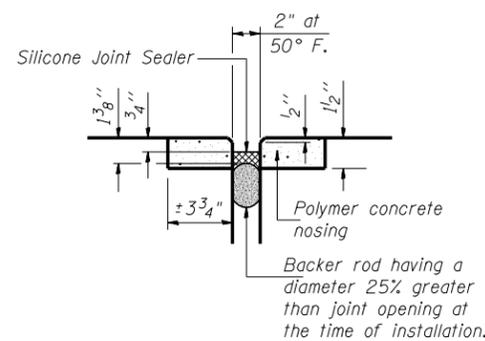
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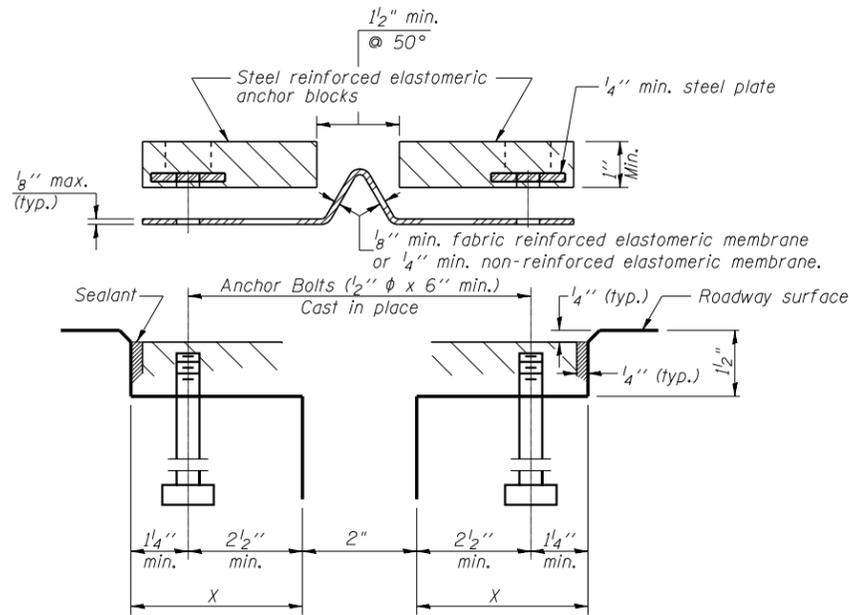
EXISTING SECTION AT SOUTH ABUTMENT



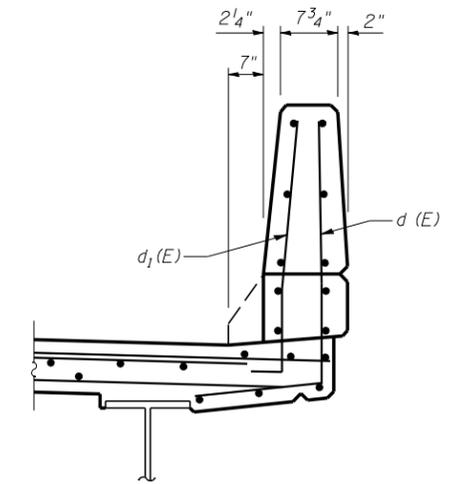
PROPOSED SECTION AT SOUTH ABUTMENT



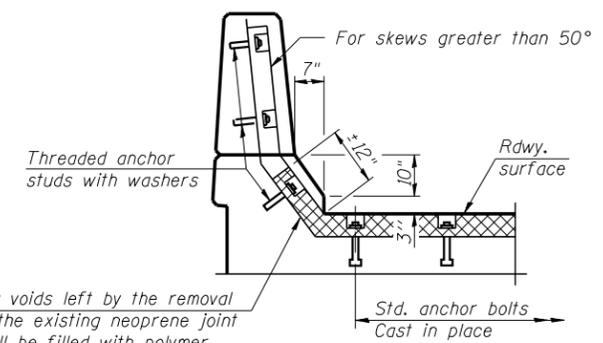
SILICONE JOINT SEALER DETAIL



CROSS SECTION DETAIL A EXISTING JOINT



EXISTING SECTION THRU PARAPET



EXISTING NEOPRENE JOINT AT PARAPET

BILL OF MATERIALS

Item	Unit	Total
Polymer Concrete	Cu. Ft.	3.4
Silicone Joint Sealer, 2"	Foot	45.4

Note:
For proposed end of seal treatment at abutment, see sheet 8 of 8.

Notes:
Remove existing neoprene expansion joint leaving existing anchor bolts, replace with Silicone Joint Sealer and Polymer Concrete.
Removal of the existing anchor blocks and neoprene membrane is included in the cost of Polymer Concrete.

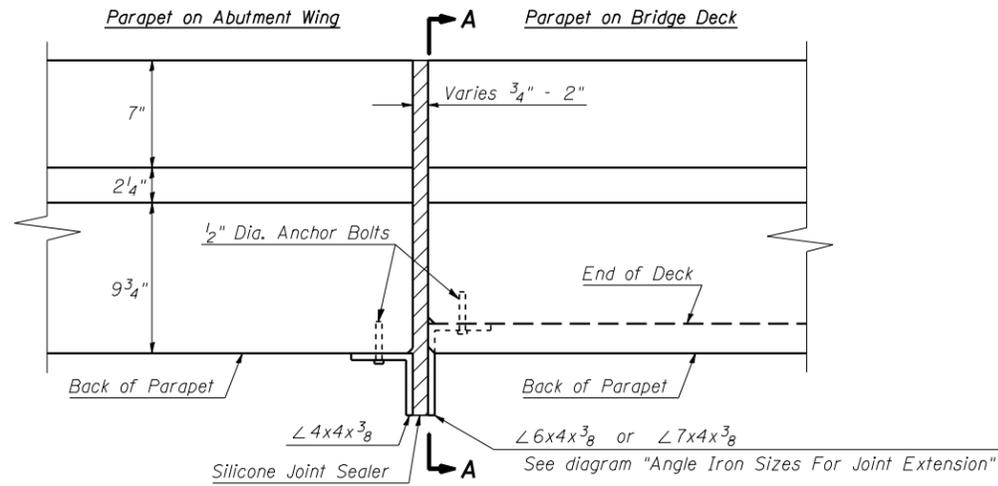
ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT SOUTH ABUTMENT
F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0005
SCALE: NA
DATE: 11/08/06
DRAWN BY: JRP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

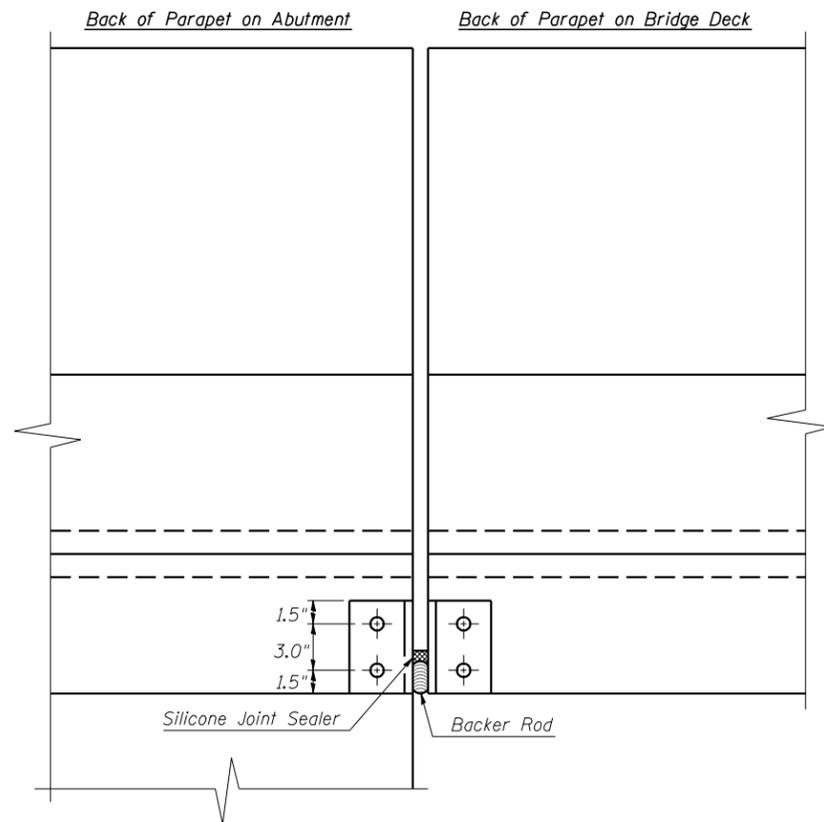
* (52BR-1 & 53R-B)BJR

SHEET 8 OF 8

JOINT EXTENSION DETAILS



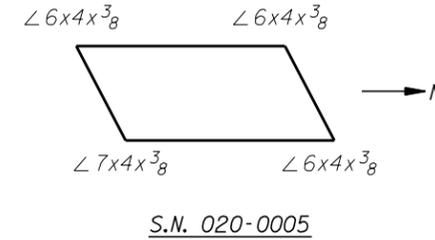
TOP VIEW
TOP OF PARAPETS AT JOINT



SIDE VIEW
BACK OF PARAPET AT JOINT

ANGLE IRON SIZES FOR JOINT EXTENSION

- Angle Iron sizes shown in diagram is for attachment to Bridge Deck.
- Angle Iron sizes for attachment to the Abutment Wing will be $\angle 4 \times 4 \times 3/8$ in all cases.



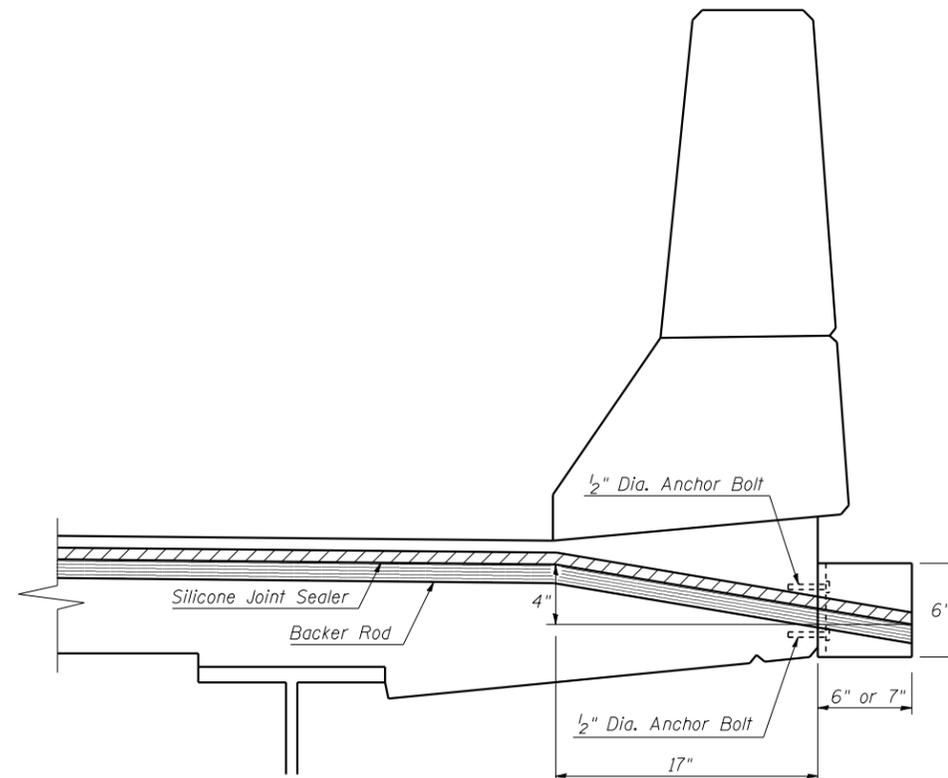
LIST OF MATERIALS

$\angle 4 \times 4 \times 3/8$ - Stainless Steel Angle Iron - 4 ea @ 6" = 2.0 Feet
$\angle 6 \times 4 \times 3/8$ - Stainless Steel Angle Iron - 3 ea @ 6" = 1.5 Feet
$\angle 7 \times 4 \times 3/8$ - Stainless Steel Angle Iron - 1 ea @ 6" = 0.5 Feet
1/2 Inch Anchor Bolts - Stainless Steel = 16 Each

The Stainless Steel Angle Iron and Anchor Bolts, furnished and installed shall not be paid for separately but shall be included in the unit bid price for Silicone Joint Sealer, 2".

GENERAL NOTES

1. Anchor Bolts shall be Stainless Steel Grade 5 or higher.
2. All sections of Angle Iron shall be Stainless Steel.
3. Stainless Steel Angle Iron shall be attached to the back side of the Abutment Wing and Bridge Deck as shown in the detail and to the satisfaction of the engineer PRIOR to the placement of Backer Rod and Silicone Joint Sealer.
4. The concrete at locations which the Stainless Steel Angle Iron is to be attached shall be generally flat and free of rough or high spots. Light grinding with a concrete grinding wheel may be required at a few locations to ensure a smooth/flat surface.
5. Drainage by others.



SECTION A-A THRU PARAPET

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT EXTENSION DETAILS

F.A.P. ROUTE 322
SECTION (52BR-1 & 53R-B)BJR
DEWITT COUNTY
S.N. 020-0005

SCALE: NA
DATE: 11/09/06

DRAWN BY: JRP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	DEWITT	35	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*(52BR-1 & 53R-B)BJR				

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

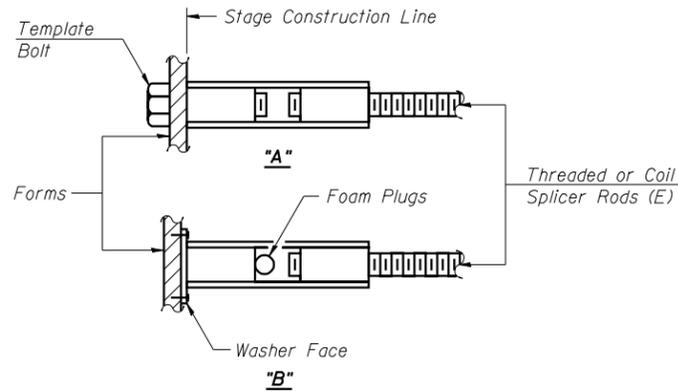
Wire Connector



WELDED SECTIONS

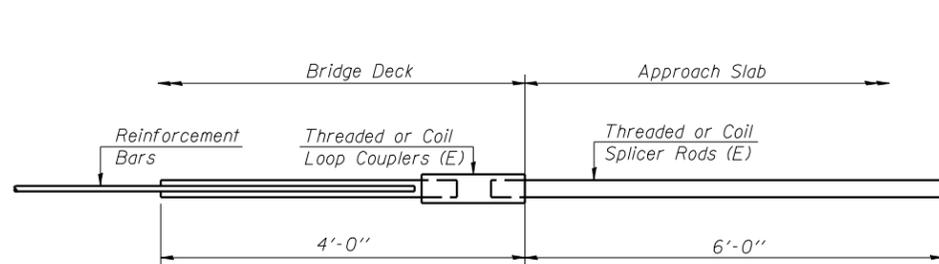
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



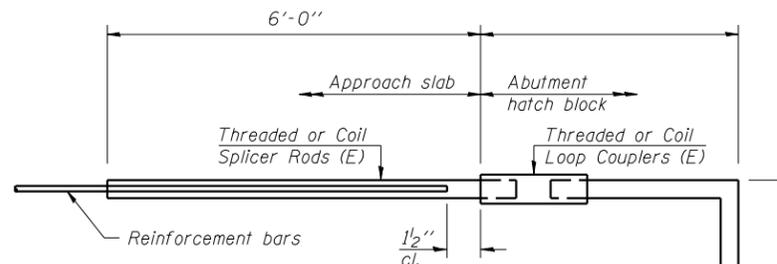
INSTALLATION AND SETTING METHODS

"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.



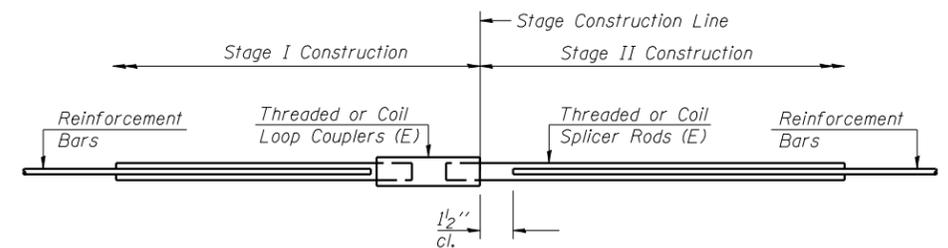
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#6	15	DECK ENDS

ILLINOIS DEPARTMENT OF TRANSPORTATION
BAR SPLICER ASSEMBLY DETAILS
 F.A.P. ROUTE 322
 SECTION (52BR-1 & 53R-B)BJR
 DEWITT COUNTY
 SCALE: NA DRAWN BY: BRIDGE
 DATE: 12/04/06 CHECKED BY: