

F.A.I. DIST.	SECTION	COUNTY	TOTAL SHEET NO.
57	(27-38B)BRR	FORD	26
			1
			CONTRACT NO. 66K27

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17. TYPICAL FIBER WRAP DETAILS FOR STRUCTURE NO. 027-0052 (SB) AND STRUCTURE NO. 027-0053 (NB).
18. FIBER WRAP (FRP) DETAILS FOR THE SOUTH ABUTMENT ON STRUCTURE NO. 027-0053 (NB).
19. FIBER WRAP (FRP) DETAILS FOR THE NORTH ABUTMENT ON STRUCTURE NO. 027-0053 (NB).
20. FIBER WRAP (FRP) DETAILS FOR THE NORTH ABUTMENT ON STRUCTURE NO. 027-0052 (SB).
21. FIBER WRAP (FRP) DETAILS FOR THE SOUTH ABUTMENT ON STRUCTURE NO. 027-0052 (SB).
22. STRIPSEAL EXPANSION JOINT DETAILS FOR STRUCTURE NO. 027-0052 (SB) AND STRUCTURE NO. 027-0053 (NB).
23. BAR SPLICER AND MECHANICAL SPLICER DETAILS FOR STRUCTURE NO. 027-0052 (SB) AND STRUCTURE NO. 027-0053 (NB).
24. \*AS-BUILT\* DECK SLAB REPAIR DETAILS FOR STRUCTURE NO. 027-0052 (SB)
25. \*AS-BUILT\* DECK SLAB REPAIR DETAILS FOR STRUCTURE NO. 027-0053 (NB)
26. MISCELLANEOUS DETAILS

# PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 57 (I-57)  
SECTION (27-38B)BRR

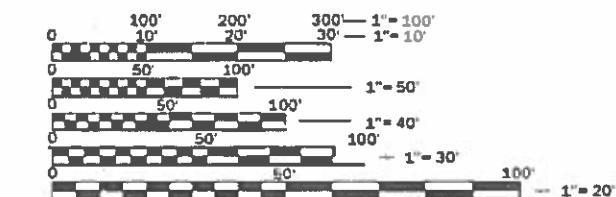
BRIDGE REPAIRS  
FORD COUNTY

C-93-113-19



**STANDARDS**

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
031005	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTILANE 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701106-07	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER



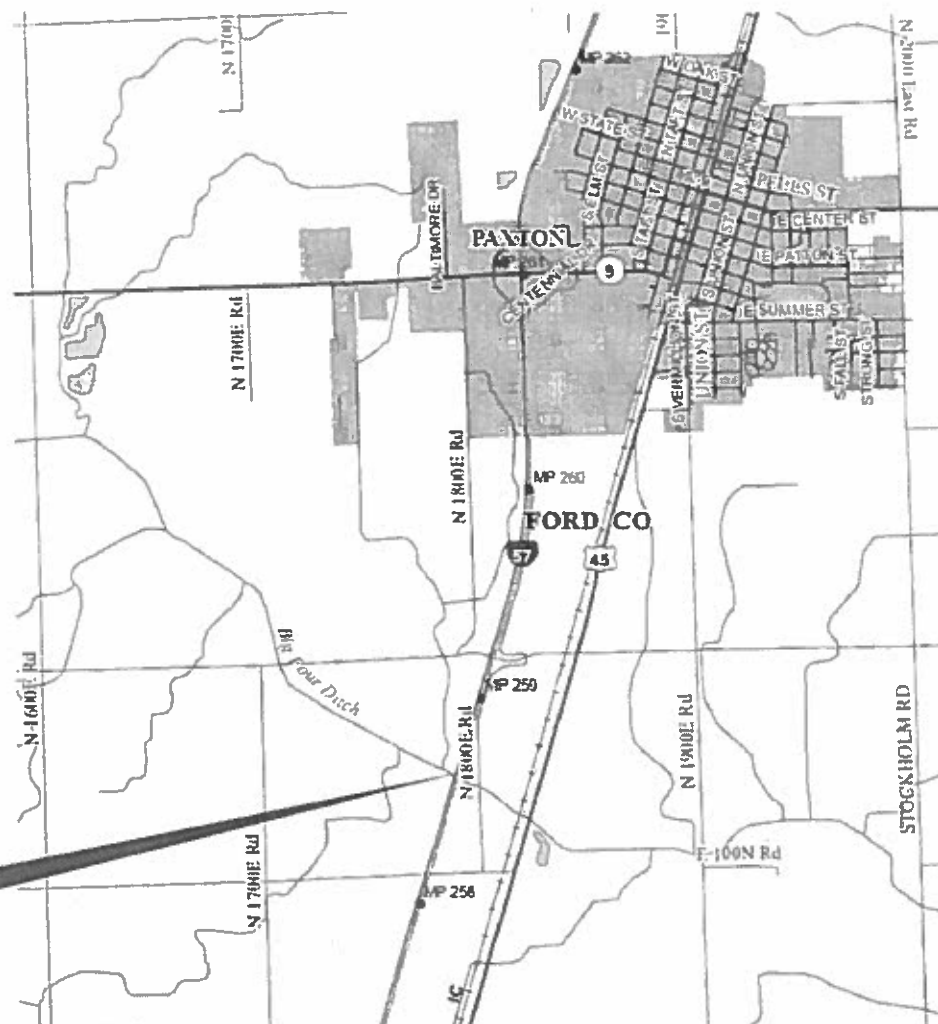
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JOE KANNEL P.E.  
UNIT CHIEF: RON WOODSHANK  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66K27

**IMPROVEMENT LOCATION**

STRUCTURE NO. 027-0052 (SB)  
STRUCTURE NO. 027-0053 (NB)  
CARRYING F.A.I. 57 (I-57) OVER  
THE BIG FOUR CREEK  
2.37 MILES SOUTH OF IL ROUTE 9 (PAXTON)



**GENERAL NOTES**

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (TACK COAT)	0.05	LBS / SQ FT
BITUMINOUS MATERIALS (FOG COAT)	0.025	LBS / SQ FT
HMA RESURFACING	112	LBS / SQ YD / IN

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

**COMMITMENTS**

**HMA MIXTURE REQUIREMENT TABLE**

LOCATIONS:	SN 027-0052 (SB) & SN 027-0053 (NB)	
	I-57	I-57
MIXTURE USE(S):	HMA BINDER BITUMINOUS MATERIALS TACK COAT BITUMINOUS MATERIALS FOG COAT	HMA SURFACE
BINDER GRADE (PG):	SBS PG 70-28	SBS PG 70-28
DESIGN AIR VOIDS:	4.0% @ N90	4.0% @ N90
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-9.5
FRICTION AGGREGATE:	N/A	MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: Tom Beaulieu  
DISTRICT STUDIES & PLANS ENGINEER

DATE: Aug 23, 2019

EXAMINED BY: [Signature]  
DISTRICT CONSTRUCTION ENGINEER

[Signature]  
DISTRICT MATERIALS ENGINEER

[Signature]  
DISTRICT OPERATIONS ENGINEER

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	PLOT DATE = 7/18/2019	DATE - 3/13/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	2
CONTRACT NO. 66K27				
ILLINOIS   FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				07A0	07E0
				100% STATE BRIDGE	100% STATE BRIDGE
				0013 RURAL	0013 RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1344	1344	
40603209	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 9.5, N90	TON	168	168	
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N90	TON	168	168	
50102400	CONCRETE REMOVAL	CU YD	8		8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	7.6		7.6
50300300	PROTECTIVE COAT	SQ YD	32		32
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1240		1240
50800515	BAR SPLICERS	EACH	16		16
52000110	PREFORMED JOINT STRIP SEAL	FOOT	142		142
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3		3
67100100	MOBILIZATION	L SUM	1	0.25	0.75
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	436	218	218

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	PLOT DATE = 8/21/2019	DATE - 3/13/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-388)BRR	FORD	26	3
			CONTRACT NO. 66K27	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				07A0	07E0
				100% STATE BRIDGE	100% STATE BRIDGE
				0013 RURAL	0013 RURAL
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	144	72	72
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1100	550	550
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1100	550	550
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
Δ 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2800	1400	1400
Δ 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1040	520	520
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14		14
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14		14
X0325748	ACRYLIC COATING	SQ YD	1415		1415
X0325749	FIBER WRAP	SQ FT	667		667
X0325969	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE BOARD	CAL DA	50	25	25
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	8		8
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOURL	500	250	250

Δ SPECIALITY ITEMS

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED - RW 6/4/2019	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/21/2019	DATE - 3/13/2019	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				07A0	07E0
				100% STATE	100% STATE
				BRIDGE	BRIDGE
				0013	0013
				RURAL	RURAL
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1800	900	900
X0970001	WORK ZONE SPEED LIMIT SIGN ASSEMBLY	CAL DA	50		50
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	8	4	4
X7010410	SPEED DISPLAY TRAILER	CAL MO	2		2
Z0007122	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	240		240
Z0012148	BRIDGE DECK SCARIFICATION 3"	SQ YD	1992	1992	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	25		25
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	25		25
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	137		137
Z0049790	RELOCATING NAME PLATES	EACH	2		2

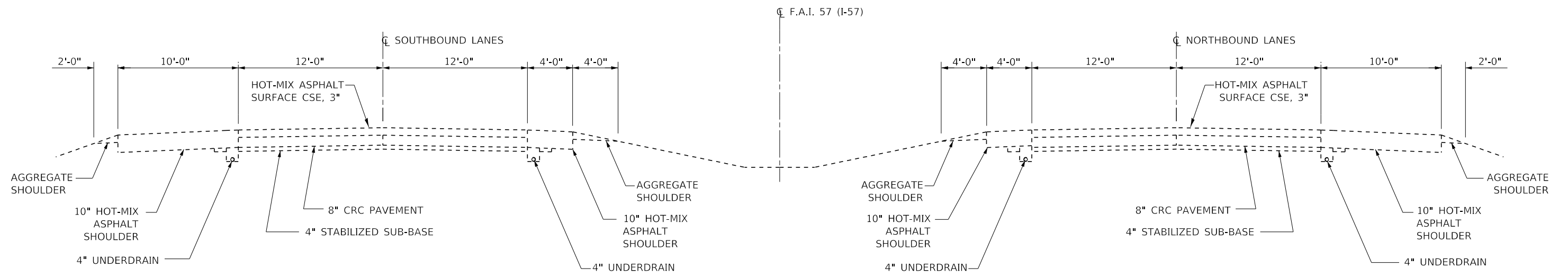
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	PLOT DATE = 8/21/2019	DATE - 3/13/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	5
			CONTRACT NO. 66K27	
			ILLINOIS FED. AID PROJECT	



**TYPICAL SECTION**

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	PLOT DATE = 7/18/2019		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTION</b>			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

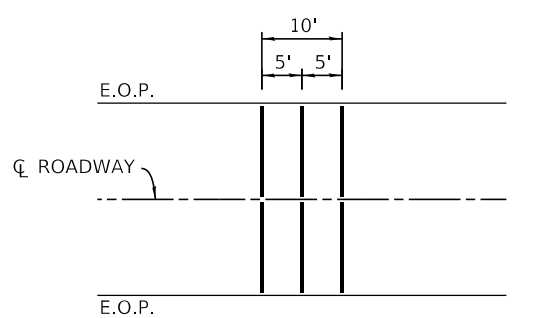
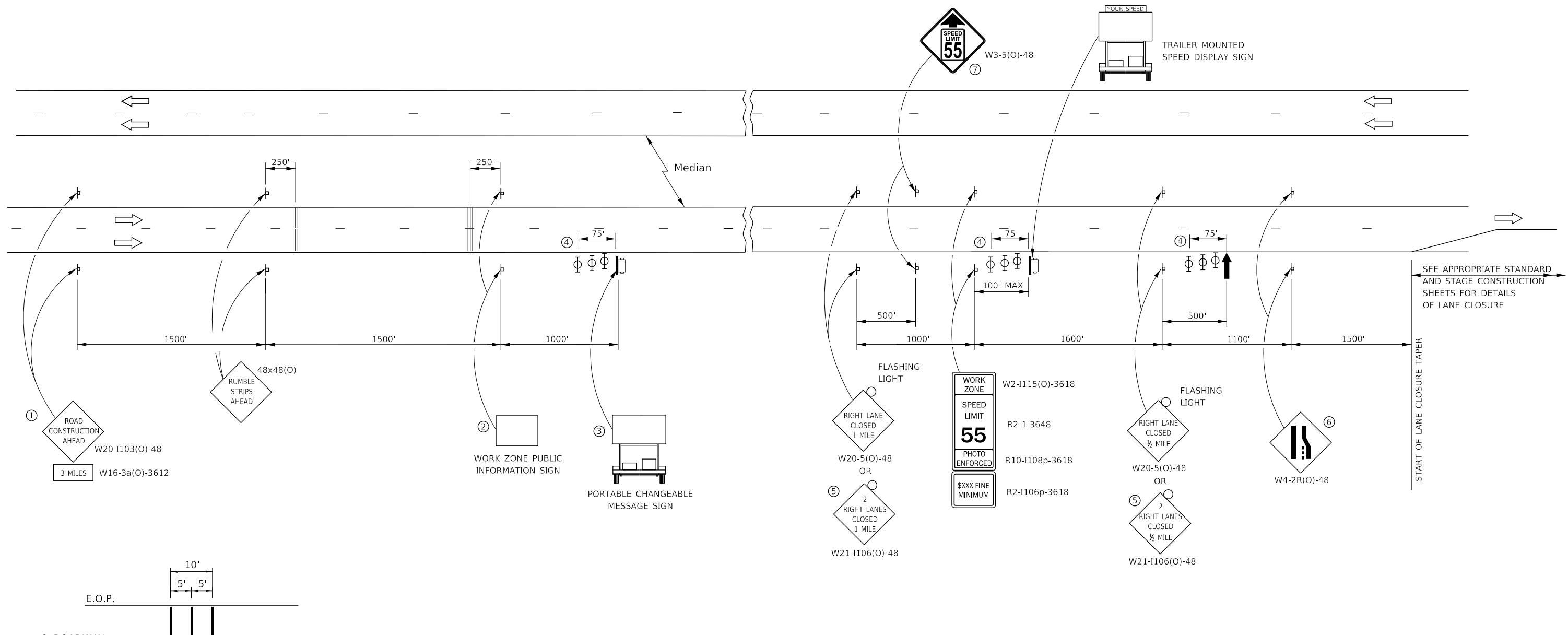
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	25	6
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				

**SCHEDULE - PAVEMENT MARKING**

LOCATION	PAVEMENT MARKING REMOVAL WATER BLASTING	SHORT-TERM PAVEMENT MARKING	SHORT-TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"	LINEAR DELINEATOR PANELS, 6 INCH	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
	SQ FT	FOOT	SQ FT	FOOT	FOOT	EACH	EACH	EACH
027-0052	900	218	72	1400	520	4	7	7
027-0053	900	218	72	1400	520	4	7	7
<b>TOTAL</b>	<b>1800</b>	<b>436</b>	<b>144</b>	<b>2800</b>	<b>1040</b>	<b>8</b>	<b>14</b>	<b>14</b>

**SCHEDULE - TRAFFIC CONTROL**

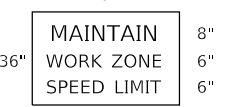
LOCATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	EACH	EACH	FOOT	FOOT
027-0052	1	4	550	550
027-0053	1	4	550	550
<b>TOTAL</b>	<b>2</b>	<b>8</b>	<b>1100</b>	<b>1100</b>



**TEMPORARY RUMBLE STRIP (SPECIAL)**

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:  
 "RIGHT LANE CLOSED" / " x MILES AHEAD"  
 "LEFT LANE CLOSED" / " x MILES AHEAD"  
 "ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ▨ TEMPORARY RUMBLE STRIPS (SPECIAL) (SEE DETAIL & SPECIAL PROVISION)

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

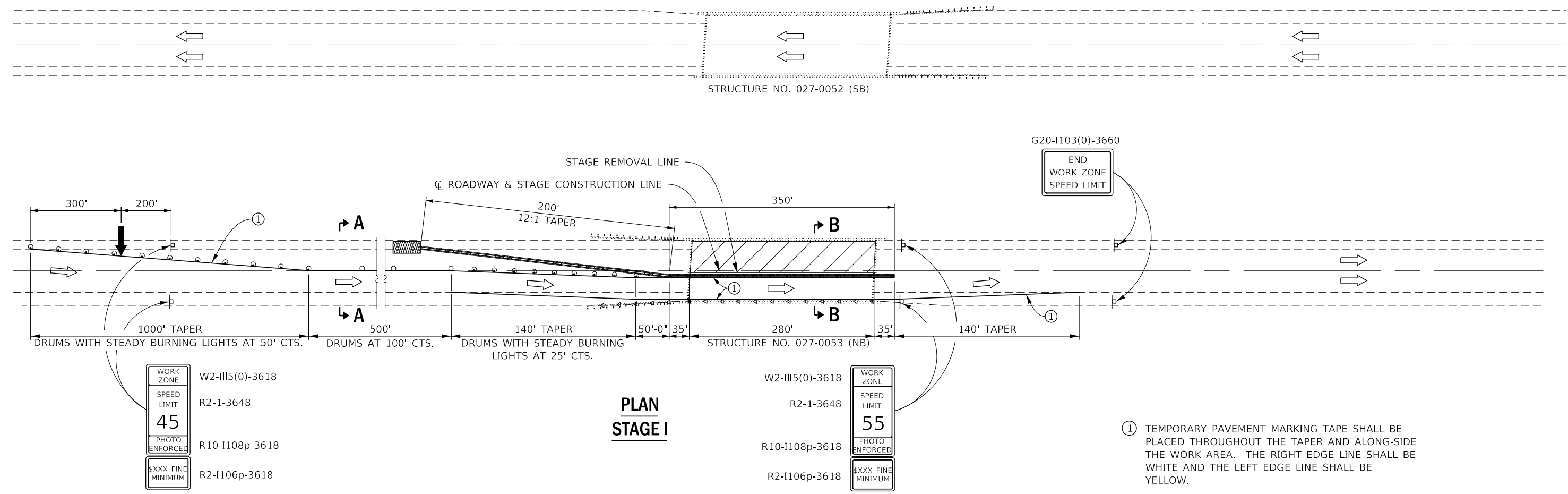
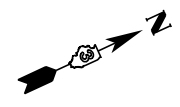
THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

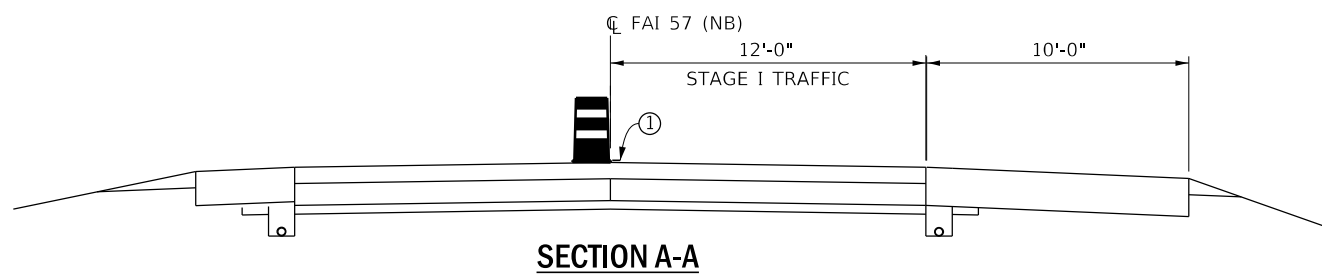
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PLOT SCALE = 100,0000' / in.	DATE - 3/13/2019	REVISI	CONTRACT NO. 66K27			ILLINOIS FED. AID PROJECT					
PLOT DATE = 7/18/2019	REVISI	SCALE:	SHEET 1 OF 1 SHEETS			STA.	TO STA.				



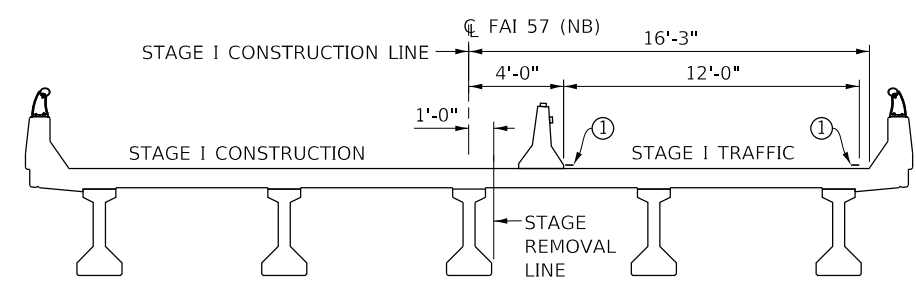


**PLAN  
STAGE I**

① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.



**SECTION A-A**



**SECTION B-B  
STRUCTURE NO. 027-0053**

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM, WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- IMPACT ATTENUATOR

**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

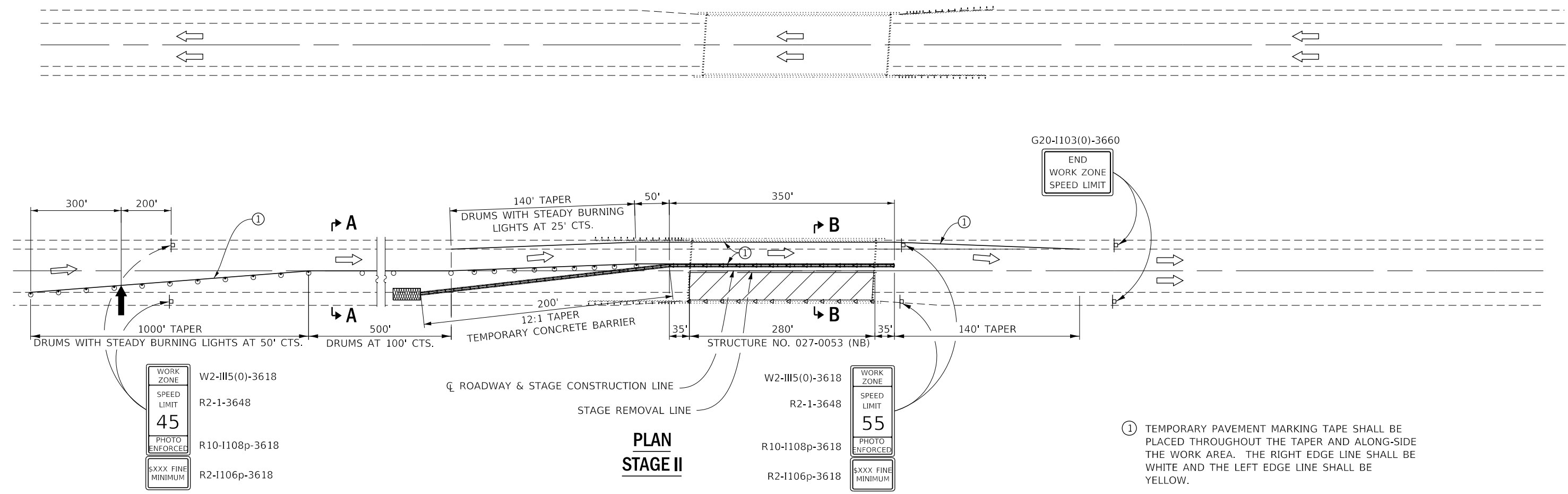
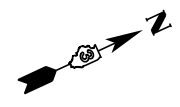
THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

TRAFFIC CONTROL AND PROTECTION FOR STRUCTURE NO. 027-0052 (SB) SHALL BE IDENTICAL TO WHAT IS SHOWN THROUGH 180° ROTATION.

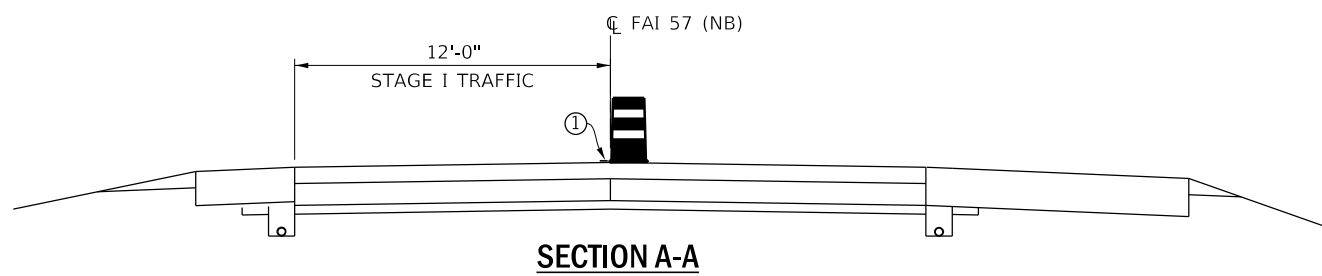
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Default	PLOT SCALE = 100,0000' / in.	CHECKED - EP	REVISOR -			CONTRACT NO. 66K27					
	PLOT DATE = 7/18/2019	DATE - 3/13/2019	REVISOR -			SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

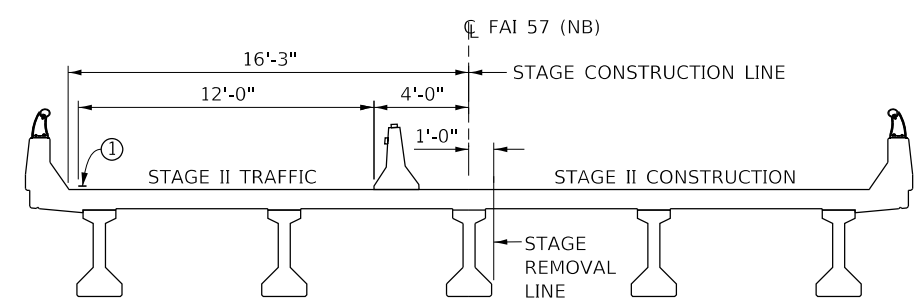


**PLAN  
STAGE II**

① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.



**SECTION A-A**



**SECTION B-B  
STRUCTURE NO. 027-0053**

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM, WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- IMPACT ATTENUATOR

**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

TRAFFIC CONTROL AND PROTECTION FOR STRUCTURE NO. 027-0052 (SB) SHALL BE IDENTICAL TO WHAT IS SHOWN THROUGH 180° ROTATION.

**NOT TO SCALE**

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED - RW 6/5/2019
pw:\planroom\dot\illinois\gov\PWDOT\Documents\IDOT\Files\District 3\Projects\D366K27\CADData\D366K27-shlcover.dwg	DRAWN - RW	CHECKED - EP	REVISED -
Default	PLOT SCALE = 100,0000 / in.	DATE - 3/13/2019	REVISED -
	PLOT DATE = 7/18/2019		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION,  
STANDARD 701402 - STAGE II**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	10
CONTRACT NO. 66K27				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED 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 OPERATIONS, SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OF ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

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

ALL STRUCTURAL STEEL FOR EXPANSIONS JOINTS SHALL BE AASHTO M 270 GRADE 36.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SURFACES.

EXISTING NAME PLATES SHALL BE REMOVED, CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH RELOCATING NAME PLATES.

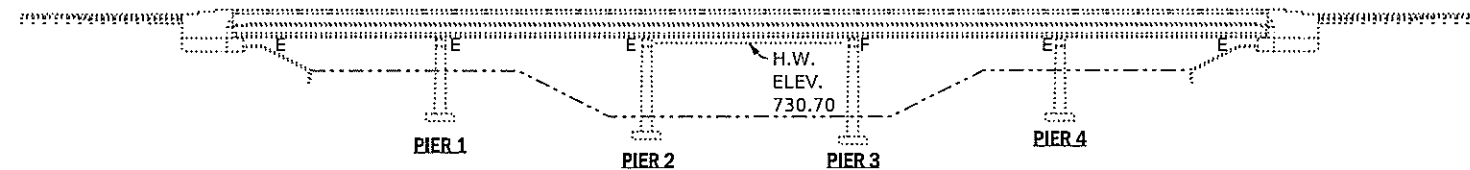
ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

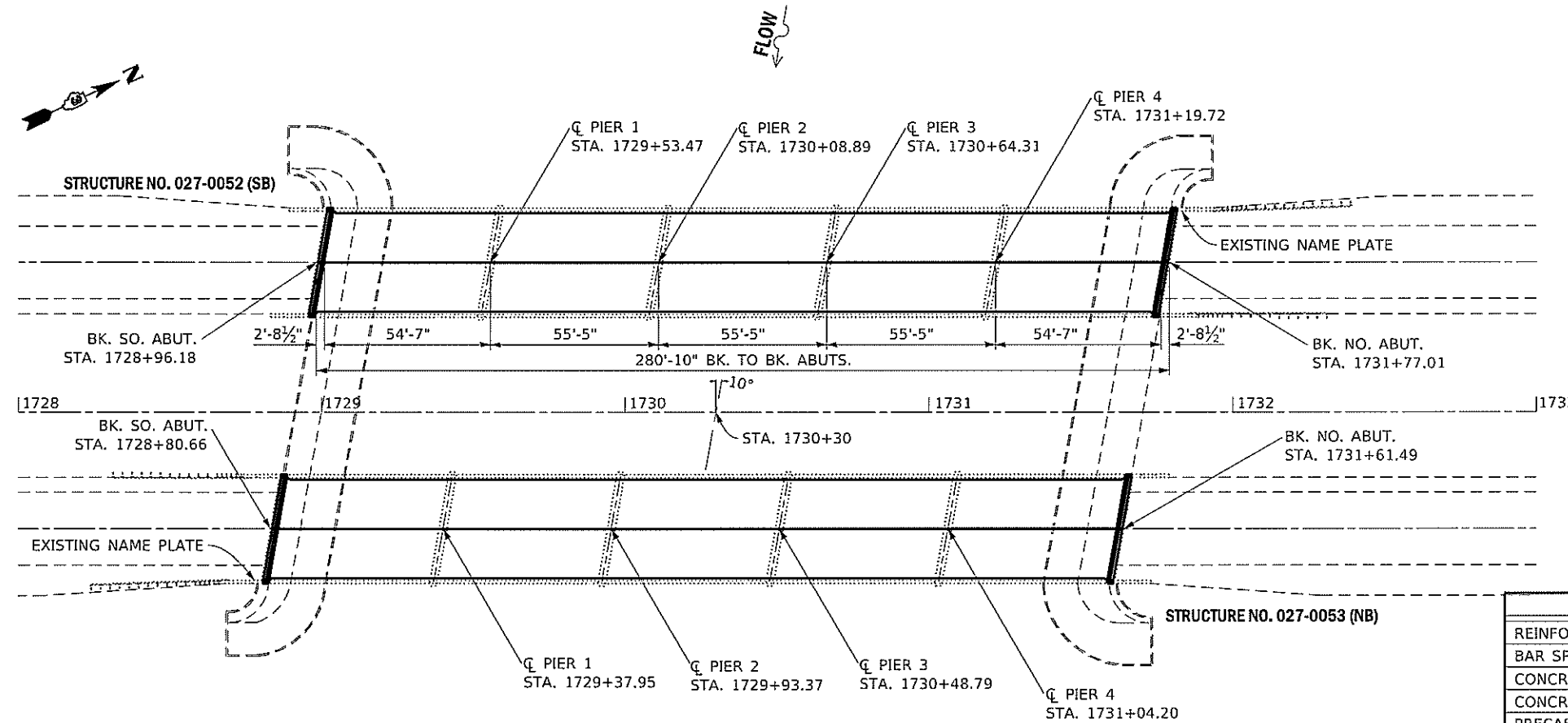
BITUMINOUS MATERIALS (TACK COAT)	0.05	LBS / SQ FT
BITUMINOUS MATERIALS (FOG COAT)	0.025	LBS / SQ FT
HMA RESURFACING	112	LBS / SQ YD / IN

**TOTAL BILL OF MATERIAL FOR TWO STRUCTURES**

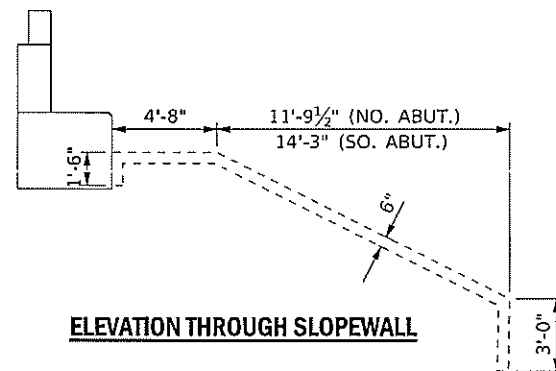
ITEM	UNIT	SUPER	SUB	TOTAL
REINFORCEMENT BARS, EPOXY COATED	POUND	1240		1240
BAR SPLICER	EACH	16		16
CONCRETE REMOVAL	CU YD	8		8
CONCRETE SUPERSTRUCTURE	CU YD	7.6		7.6
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	137		137
FIBER WRAP	SQ FT	667		667
ACRYLIC COATING	SQ YD	1415		1415
PREFORMED JOINT STRIP SEAL	FOOT	142		142
PROTECTIVE COAT	SQ YD	32		32
RELOCATING NAME PLATES	EACH	2		2
BRIDGE DECK SCARIFICATION 3"	SQ YD	1992		1992
BITUMINOUS MATERIALS (TACK COAT)	POUND	1344		1344
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 9.5, N90	TON	168		168
POLYMERIZED HOT-MIX ASPHALT SURFACE CSE. IL 9.5, MIX D, N90	TON	168		168
REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	240		240
DECK SLAB REPAIR (FULL DEPTH)	SQ YD	50		50



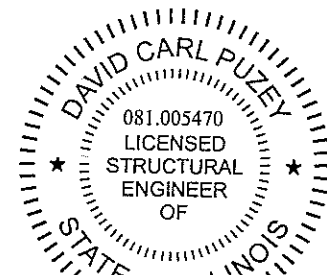
**ELEVATION**



**PLAN**

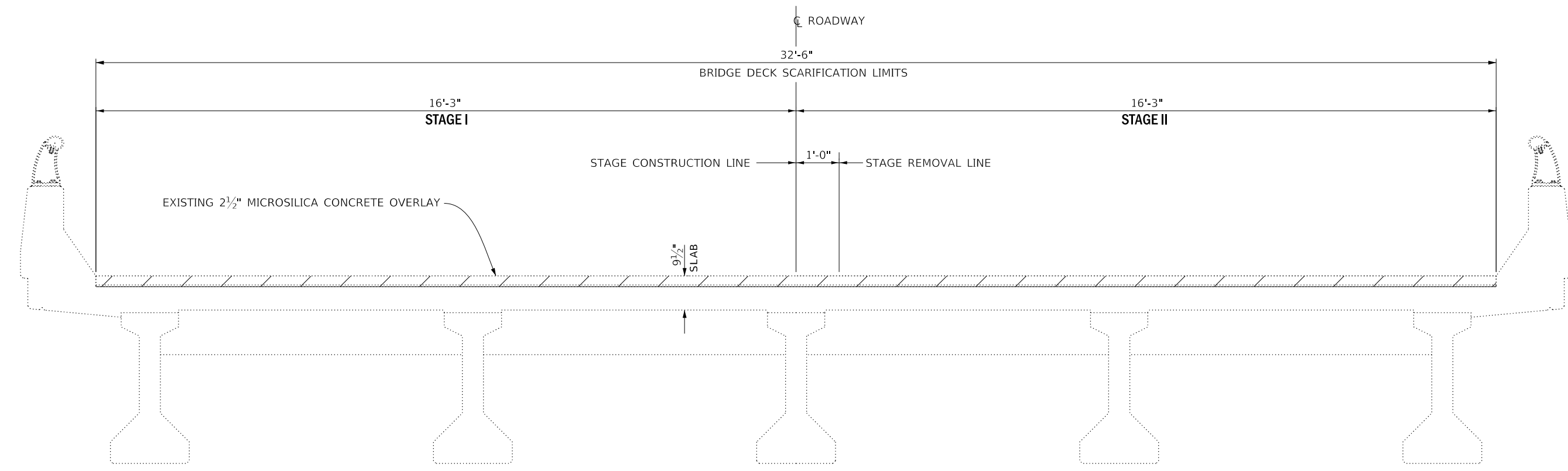
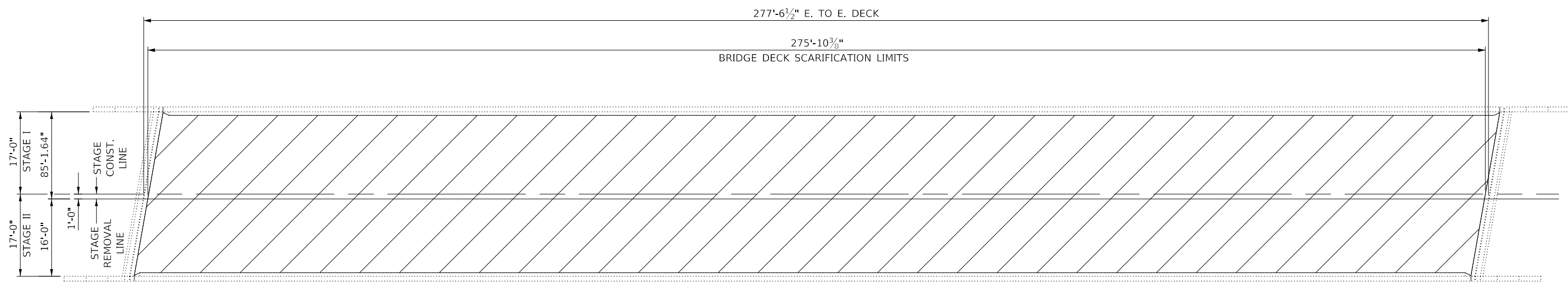


**ELEVATION THROUGH SLOPEWALL**



*Dr. Carl Puzey 10/1/19 Expires 10/30/20*

FILE NAME =	USER NAME = woodshankl	DESIGNED - RW	REVISED - RW 6/4/2019	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING GENERAL PLAN AND ELEVATION SN 027-0052 (SB) &amp; SN 027-0053 (NB)</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\planroom\dsl\hols.gor\PIWIDOT\Documents\VDOT	0:\files\District 3\Projects\0366K27\CADD\data\0366K27-sh-cvvel	DRAWN - RW	REVISED -			57	(27-388)BRR	FORD	26	11	
	PLOT SCALE = 100.0000' / in.	CHECKED - EP	REVISED -			CONTRACT NO. 66K27					
Default:	PLOT DATE = 8/21/2019	DATE - 3/13/2019	REVISED -			ILLINOIS FED. AID PROJECT					



 BRIDGE DECK SCARIFICATION 3"

**CROSS SECTION**  
LOOKING IN DIRECTION OF TRAFFIC

**BILL OF MATERIAL**  
**STRUCTURE NO. 027-0052 (SB)**

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION 3"	SQ YD	996

**BILL OF MATERIAL**  
**STRUCTURE NO. 027-0053 (NB)**

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION 3"	SQ YD	996

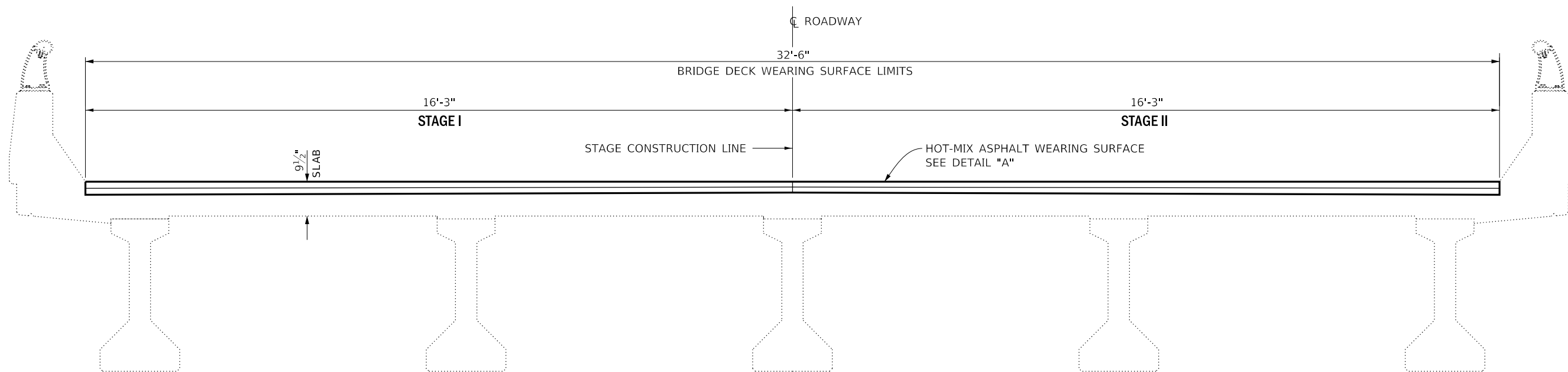
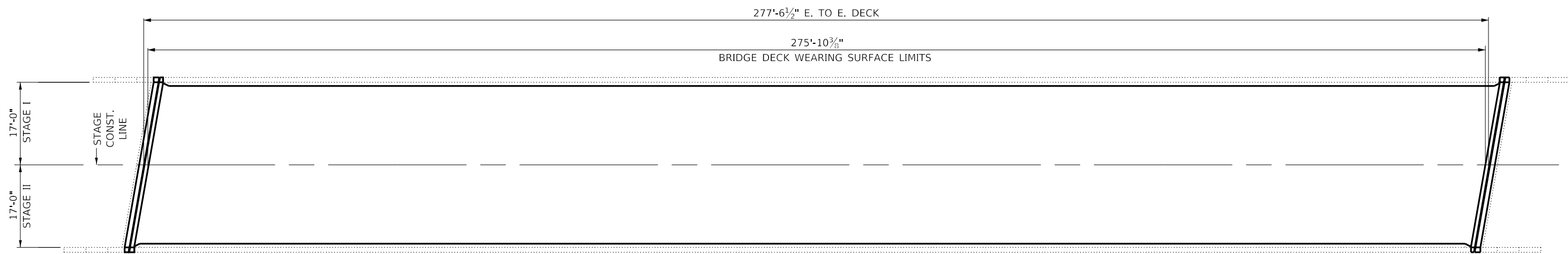
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Default		DRAWN - RW	REVISED -
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	PLOT DATE = 7/18/2019	DATE - 3/13/2019	REVISED -

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

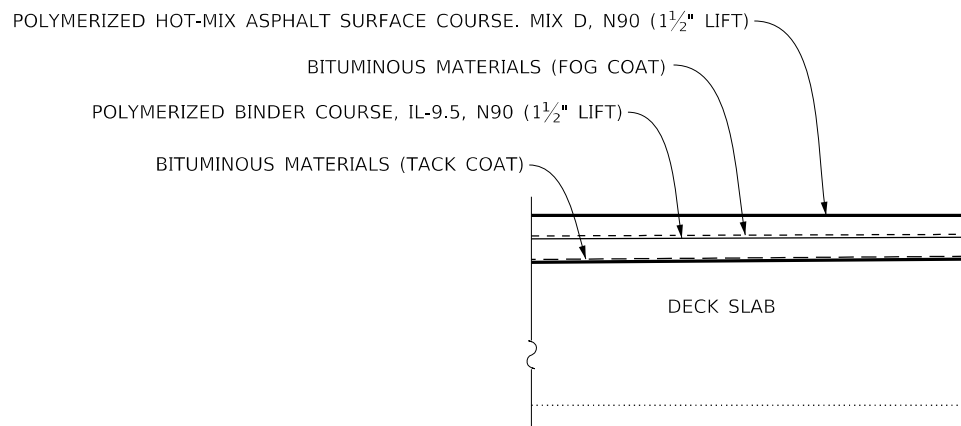
**BRIDGE WEARING SURFACE REMOVAL DETAILS**  
**SN 027-0052 (SB) & SN 027-0053 (NB)**

SCALE: SHEET 2 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-388)BRR	FORD	26	12
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				



**CROSS SECTION**  
LOOKING IN DIRECTION OF TRAFFIC



**DETAIL "A"**

**BILL OF MATERIALS**  
**STRUCTURE NO. 027-0052 (SB)**

ITEM	UNIT	TOTAL
BITUMINOUS MATERIALS (TACK COAT)	POUND	448
BITUMINOUS MATERIALS (FOG COAT)	POUND	224
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90	TON	84
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	TON	84

BITUMINOUS MATERIALS (FOG COAT) WILL BE PAID FOR AS BITUMINOUS MATERIALS (TACK COAT)

**BILL OF MATERIALS**  
**STRUCTURE NO. 027-0053 (NB)**

ITEM	UNIT	TOTAL
BITUMINOUS MATERIALS (TACK COAT)	POUND	448
BITUMINOUS MATERIALS (FOG COAT)	POUND	224
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90	TON	84
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	TON	84

BITUMINOUS MATERIALS (FOG COAT) WILL BE PAID FOR AS BITUMINOUS MATERIALS (TACK COAT)

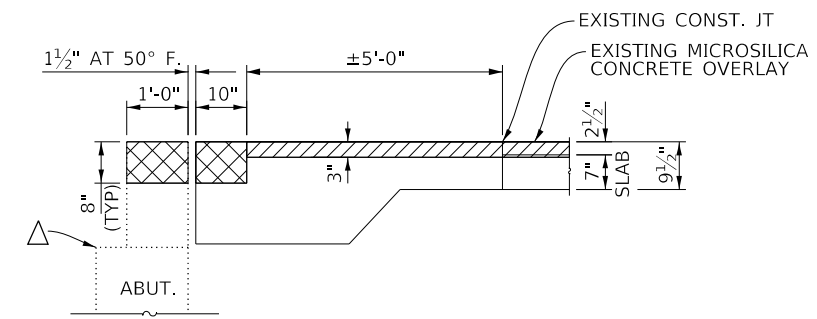
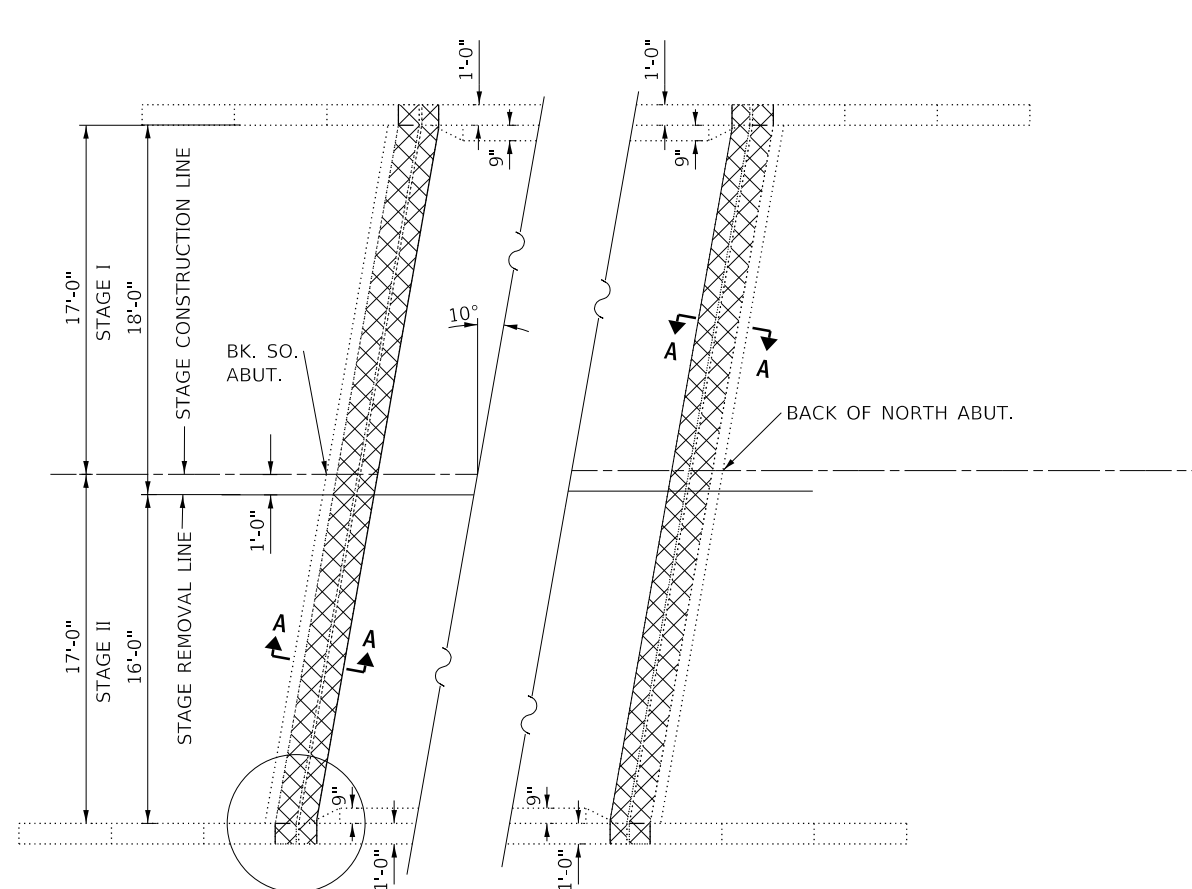
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pw:\planroom\dot\illinois\gov\PWDOT\Documents\IDOT\Files\District 3\Projects\D366K27\CADData\D366K27-shlcover.dwg	DRAWN - RW	CHECKED - EP	REVISED -
Default	PLOT SCALE = 100.0000' / in.	DATE - 3/13/2019	REVISED -
	PLOT DATE = 7/18/2019		

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

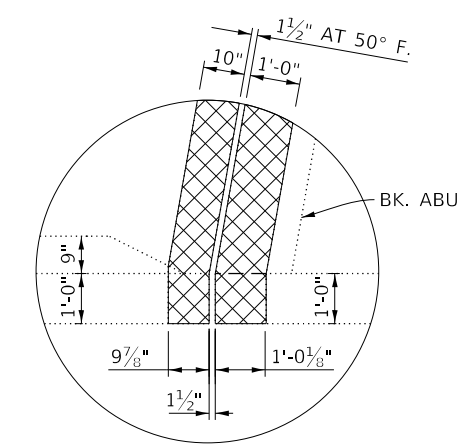
**BRIDGE WEARING SURFACE REPLACEMENT DETAILS FOR**  
**SN 027-0052 (SB) AND SN 027-0053 (NB)**

SCALE: SHEET 3 OF 15 SHEETS STA. TO STA.

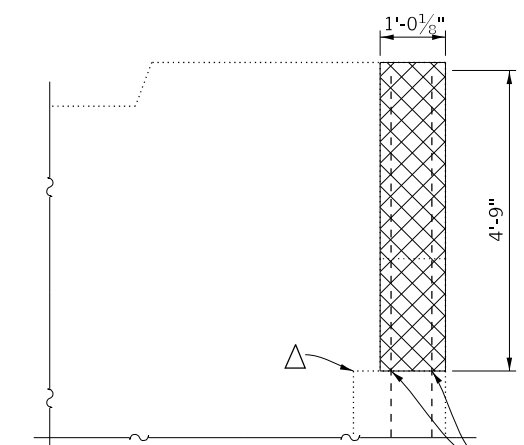
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	13
			CONTRACT NO. 66K27	
		ILLINOIS	FED. AID PROJECT	



**SECTION A-A**

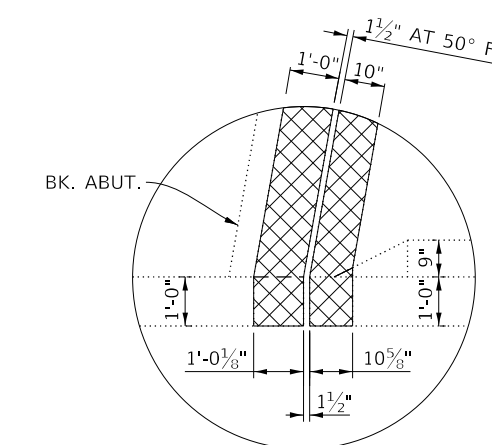


**CORNER DETAIL  
NE & SW CORNERS**



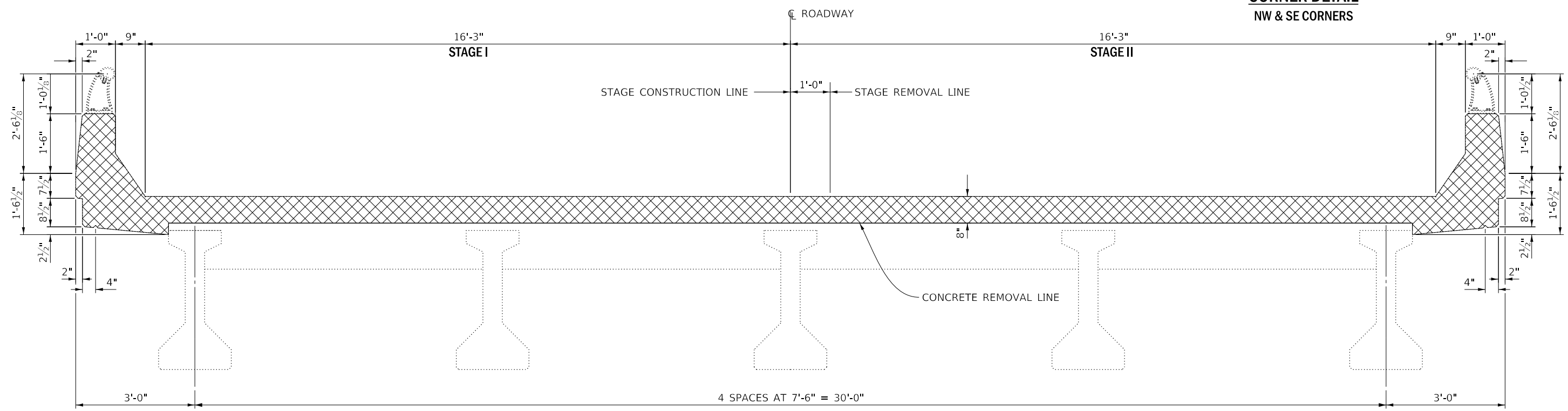
**WING WALL ELEVATION  
(TYP.)**

EXISTING REINFORCEMENT SHALL BE CUT OFF FLUSH WITH CONCRETE THAT IS TO REMAIN (EACH FACE).



**CORNER DETAIL  
NW & SE CORNERS**

- NOTES:  
 1. CROSS HATCHED AREA REPRESENTS CONCRETE REMOVAL  
 2. HATCHED ARE REPRESENTS BRIDGE DECK SCARIFICATION 3"



**CROSS SECTION AT EXPANSION JOINT (DECK SIDE)**  
LOOKING IN DIRECTION OF TRAFFIC

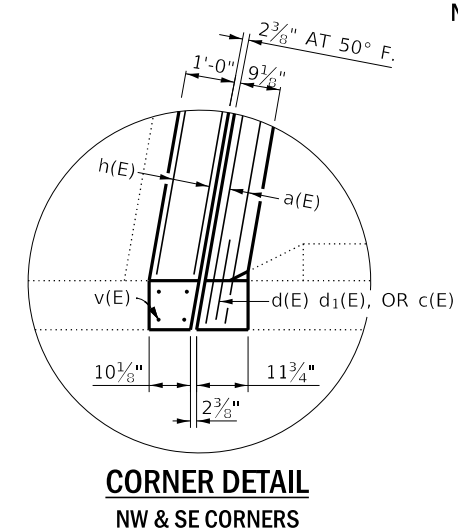
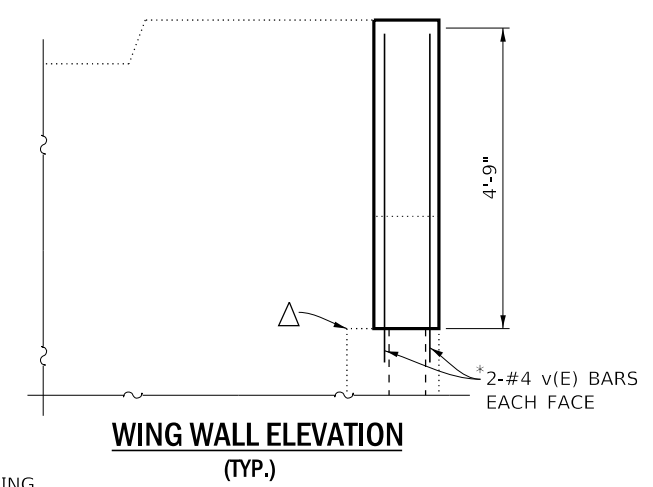
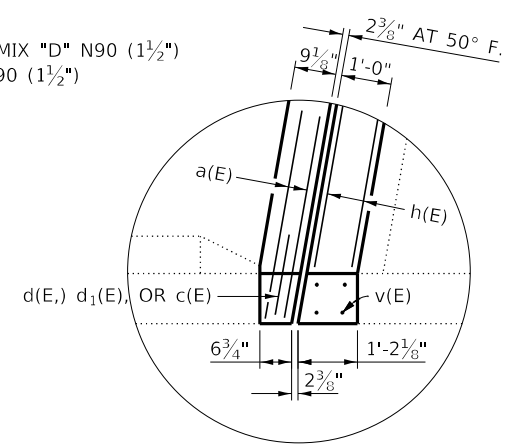
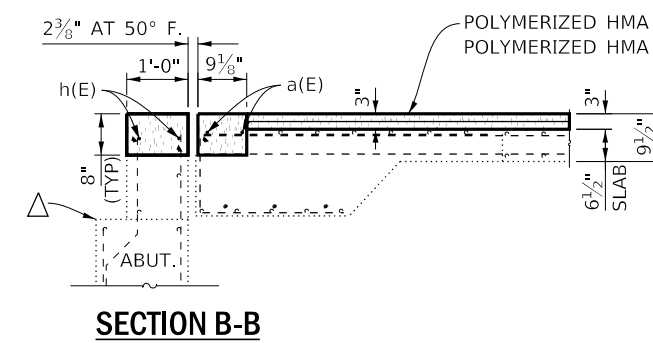
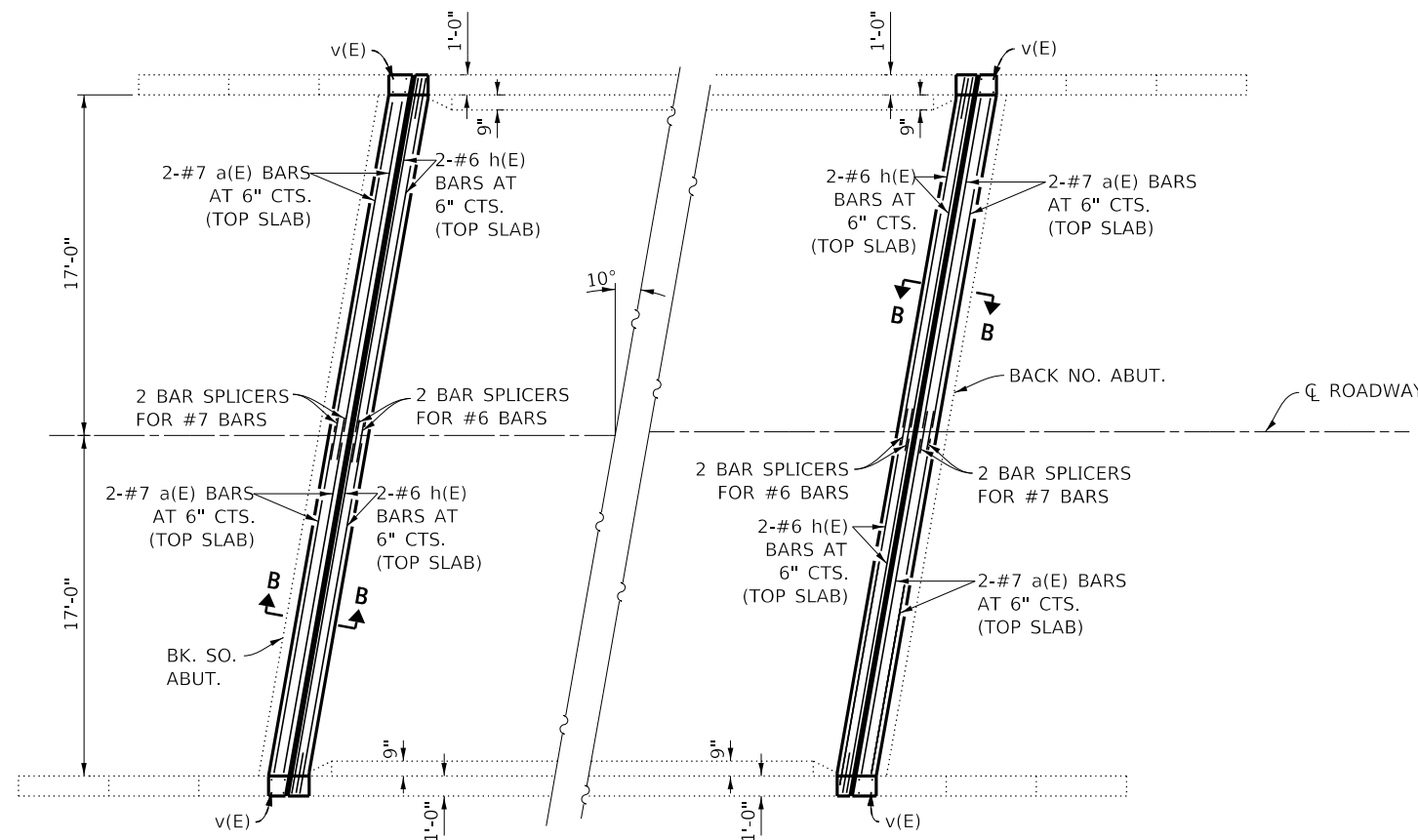
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Default	PLOT SCALE = 100,0000 / in.	DATE - 3/13/2019	REVISED -
	PLOT DATE = 7/18/2019		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

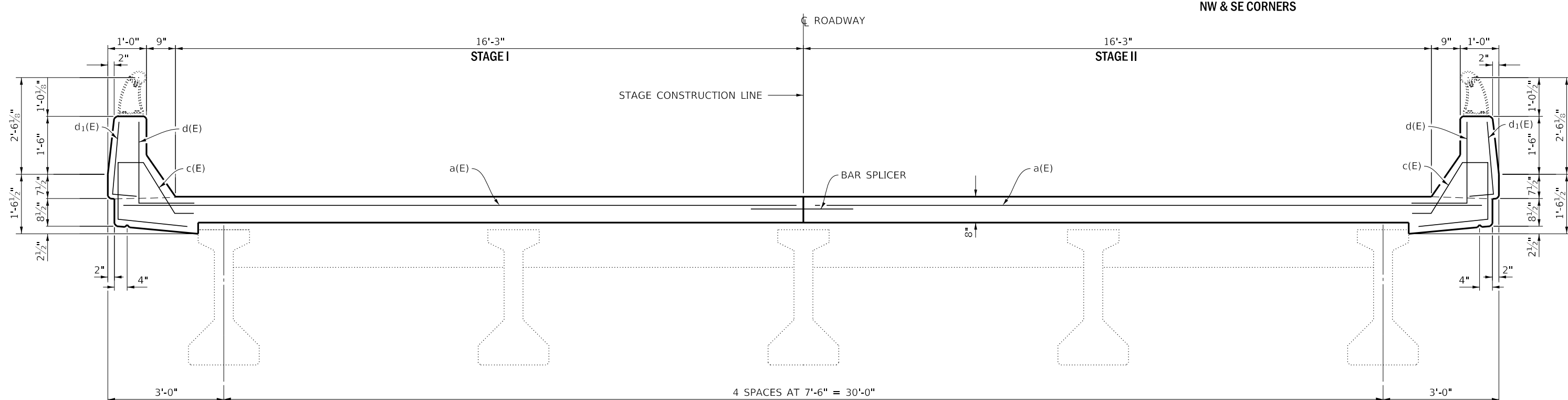
**CONCRETE REMOVAL DETAILS  
SN 027-0052 (SB) & STN 027-0053 (NB)**

SCALE: SHEET 4 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	14
CONTRACT NO. 66K27				
ILLINOIS FED. AID PROJECT				



\*DRILL AND GROUT INTO EXISTING CONCRETE ACCORDING TO SECTION 584 OF THE STANDARD SPECIFICATIONS.

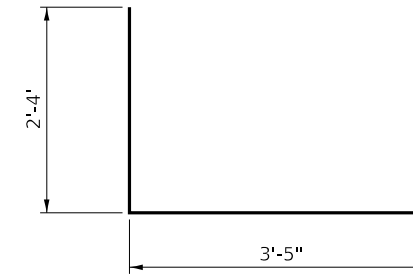


**CROSS SECTION AT EXPANSION JOINT (DECK SIDE)**  
 LOOKING IN DIRECTION OF TRAFFIC

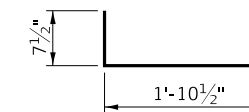
FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONCRETE CONSTRUCTION DETAILS SN 027-0052 (SB) &amp; SN 027-0053 (NB)</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom\dot\illinois.gov\PWIDOT\Documents\IDOT	Files\District 3\Projects\D366K27\CADData\D366K27-shlcover.dwg	DRAWN - RW	REVISED -			57	(27-38B)BRR	FORD	26	15	
Default	PLOT SCALE = 100,0000 / in.	CHECKED - EP	REVISED -			CONTRACT NO. 66K27					
	PLOT DATE = 8/21/2019	DATE - 3/13/2019	REVISED -			SCALE:	SHEET 5 OF 16 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

**BILL OF MATERIAL  
FOR SN 027-0052 (SB)**

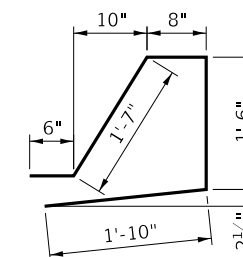
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	8	#7	18'-0"	—
c(E)	4	#4	6'-1"	▽
d(E)	4	#6	5'-9"	└
d1(E)	4	#4	2'-6"	└
h(E)	8	#6	17'-0"	—
v(E)	16	#4	5'-4"	—
REINFORCEMENT BARS, EPOXY COATED			LBS.	620
BAR SPLICER			EACH	8
CONCRETE REMOVAL			CU. YDS.	4
CONCRETE SUPERSTRUCTURE			CU. YDS.	3.8
PROTECTIVE COAT			SQ YD	16



**BAR d(E)**



**BAR d1(E)**



**BAR C(E)**

**BILL OF MATERIAL  
FOR SN 027-0053 (NB)**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	8	#7	18'-0"	—
c(E)	4	#4	6'-1"	▽
d(E)	4	#6	5'-9"	└
d1(E)	4	#4	2'-6"	└
h(E)	8	#6	17'-0"	—
v(E)	16	#4	5'-4"	—
REINFORCEMENT BARS, EPOXY COATED			LBS.	620
BAR SPLICER			EACH	8
CONCRETE REMOVAL			CU. YDS.	4
CONCRETE SUPERSTRUCTURE			CU. YDS.	3.8
PROTECTIVE COAT			SQ YD	16

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED - RW 6/4/2019
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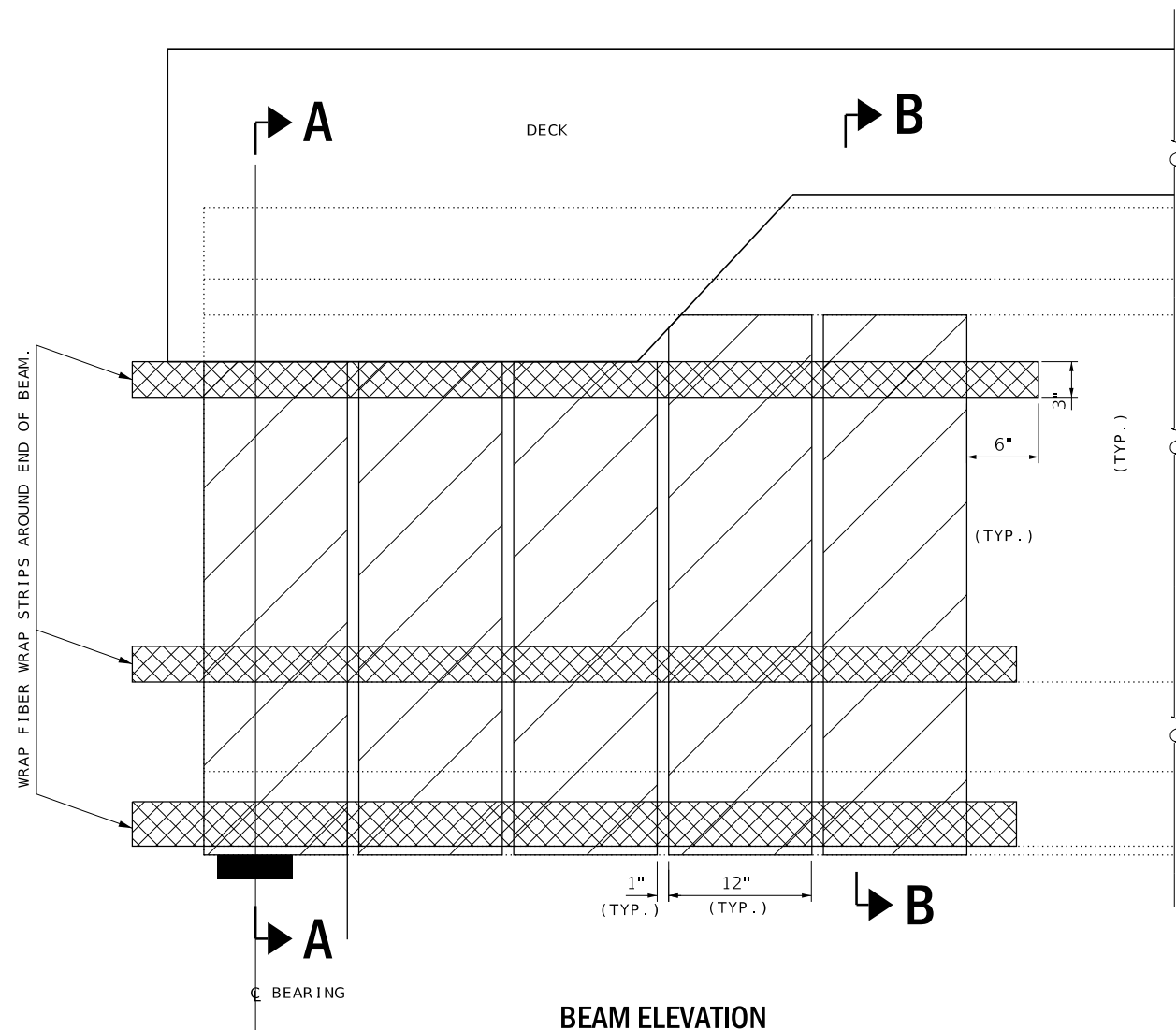
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REINFORCEMENT TABLES  
FOR SN 027-0052 (SB) & SN 027-0053 (NB)**

SCALE: SHEET 6 OF 15 SHEETS STA. TO STA.

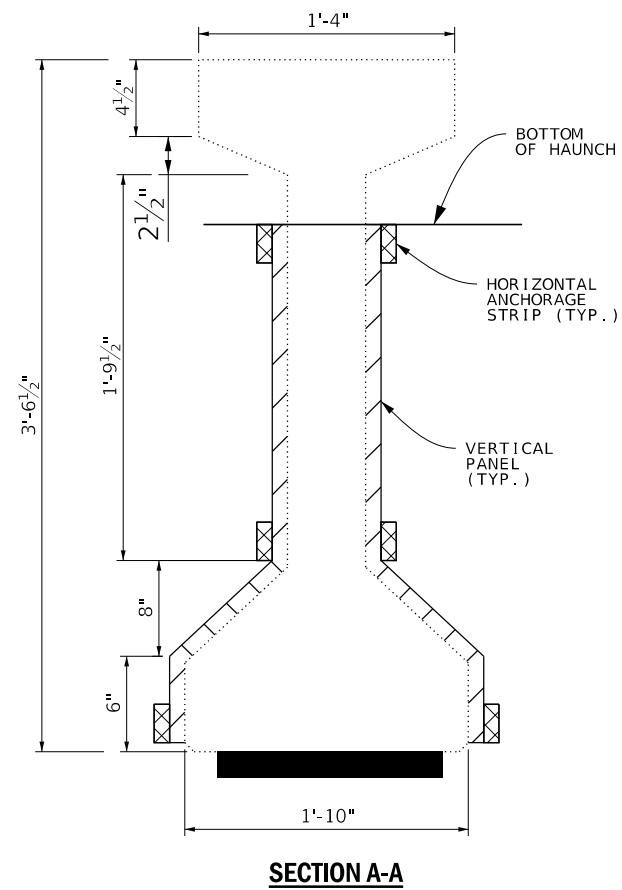
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	16
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				



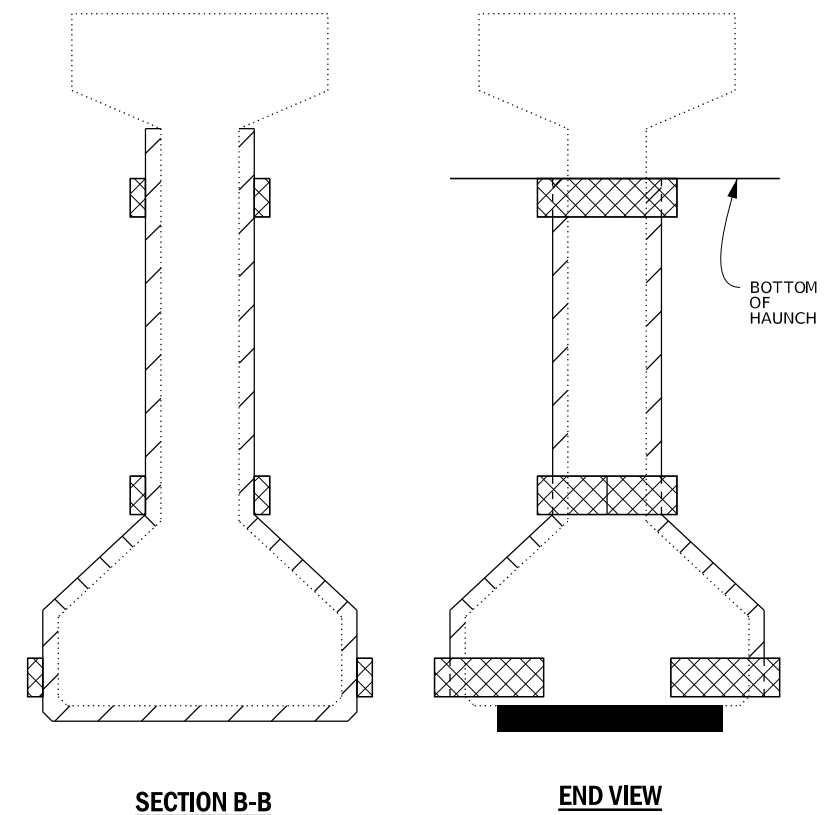


**BEAM ELEVATION  
(TYPICAL)**

NUMBER OF ACTUAL FRP PANELS VARIES PER BEAM  
SEE SHEETS 18 THRU 21 OF 26 SHEETS FOR NUMBER OF FRP PANELS



**SECTION A-A**



**SECTION B-B**

**END VIEW**

**BEAM SECTION  
(TYPICAL)**

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED - RW 6/4/2019
pw:\planroom\dot\illinois.gov\PWDOT\Documents\IDOT\Office\District 3\Projects\D366K27\CADData\D366K27-shlcover.dwg	DRAWN - RW	CHECKED - EP	REVISED -
Default	PLOT SCALE = 100,0000' / in.	DATE - 3/13/2019	REVISED -
	PLOT DATE = 7/18/2019		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL FIBER WRAP DETAILS  
FOR SN 027-0052 (SB) & SN 027-0053 (NB)**

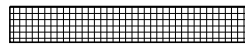
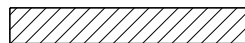

SCALE: SHEET 7 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	17
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				



STRUCTURE NO. 027-0053 (NB)

**LEGEND**

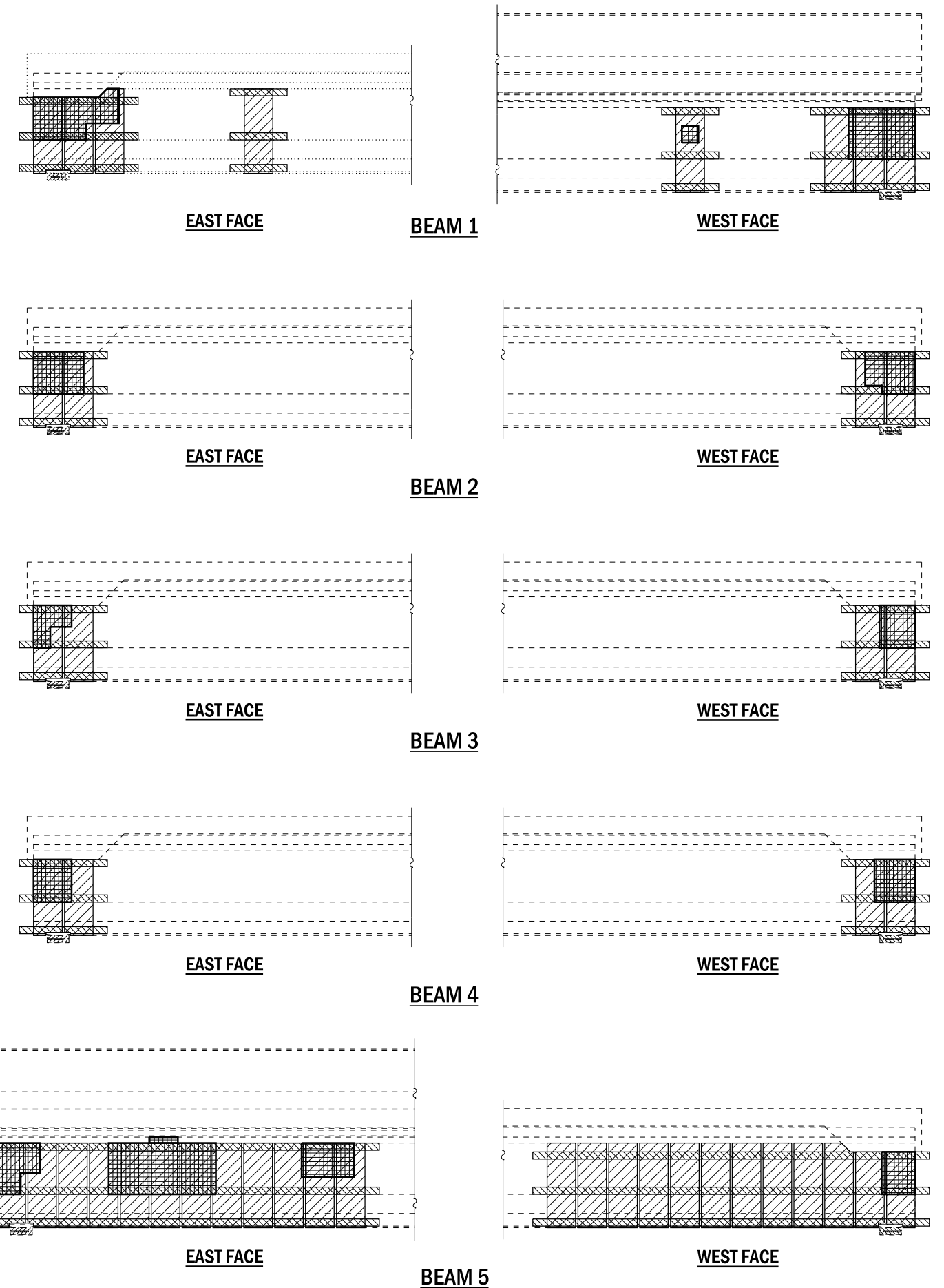
-  I-BEAM REPAIR AREA
-  FIBER WRAP PANEL (FRP)
-  FIBER WRAP STRIP

**NOTES:**

1. "TWO" COATS OF THE ACRYLIC COATING SHALL BE APPLIED OVER FIBER WRAP REPAIRS. SEE SPECIAL PROVISION FOR "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".
2. I-BEAM REPAIR QUANTITIES ARE ESTIMATED. THE ENGINEER SHALL SOUND THE BEAM ENDS AT TIME OF CONSTRUCTION TO DETERMINE ACTUAL REPAIR AREAS.

**SCHEDULE**  
STRUCTURE NO. 027-0053 (NB)  
SOUTH ABUTMENT

BEAM NO.	LOCATION	I-BEAM REPAIR		FIBER WRAP		ACRYLIC COATING
		SQ FT	PANELS	SQ FT	SQ YD	
1	WEST FACE	4.5	4	43	92	
	EAST FACE	4.1				
2	WEST FACE	2.4	2	19	36	
	EAST FACE	2.6				
3	WEST FACE	1.9	2	19	36	
	EAST FACE	1.4				
4	WEST FACE	2.1	2	19	36	
	EAST FACE	2.0				
5	WEST FACE	1.7	12	119	264	
	EAST FACE	11.3				
<b>TOTAL</b>		<b>34</b>	<b>22</b>	<b>219</b>	<b>464</b>	



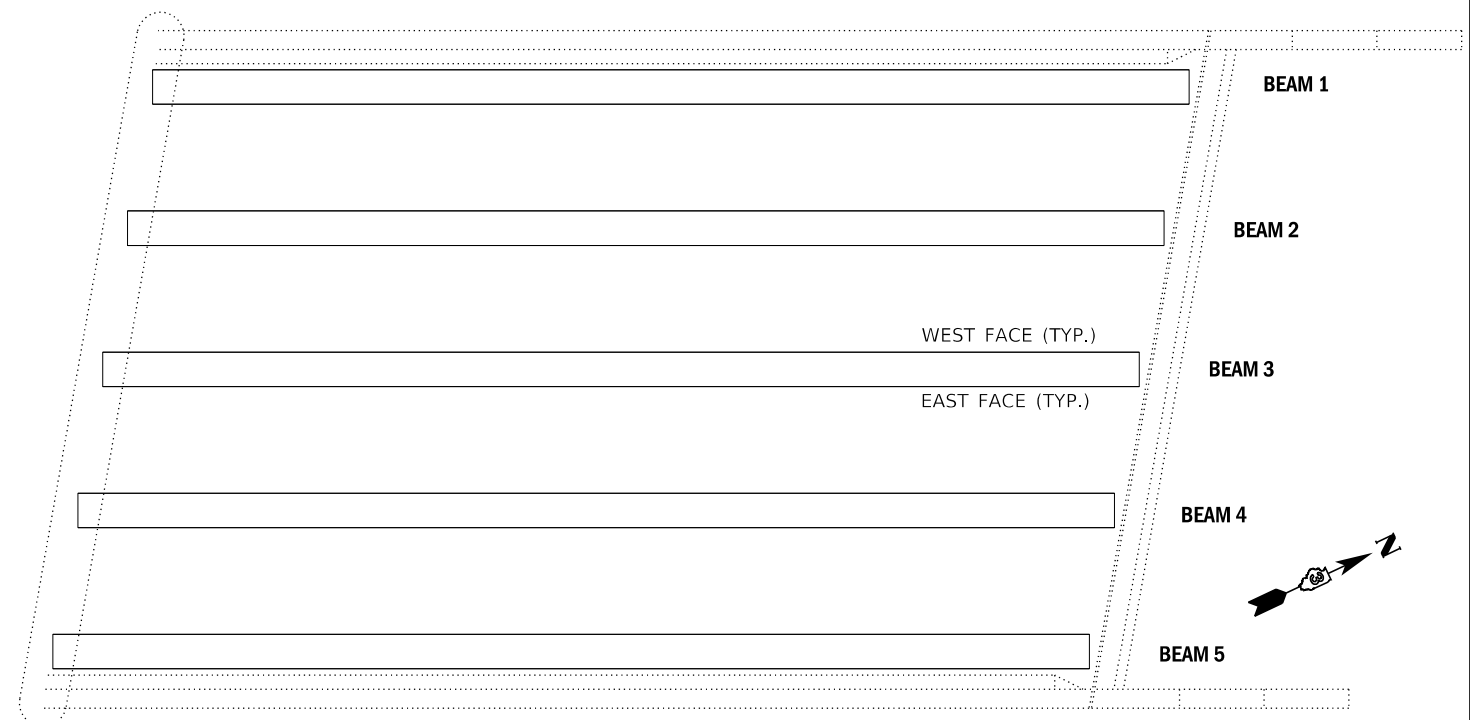
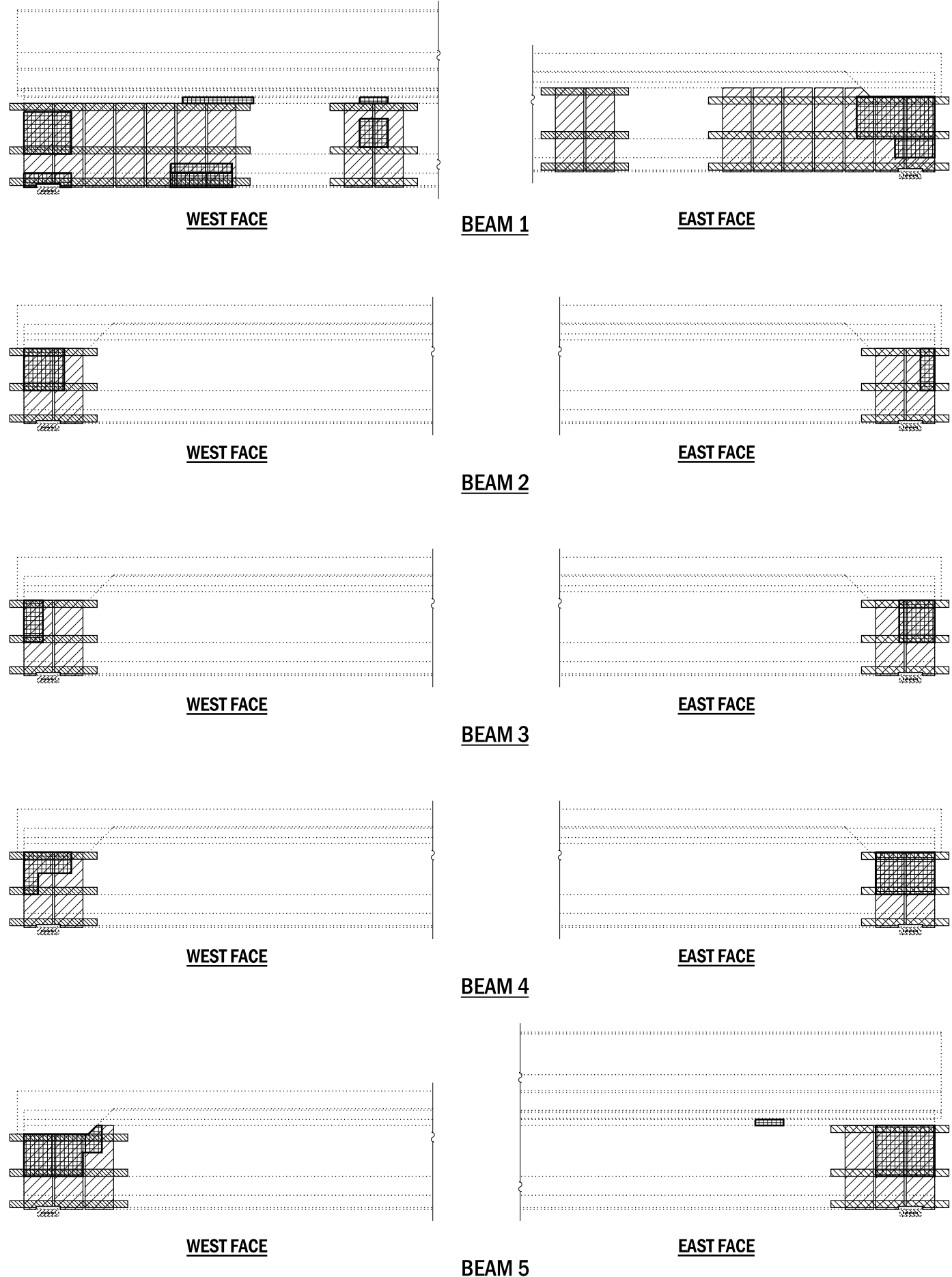
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	PLOT DATE = 7/18/2019		

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

**STRUCTURE NO. 027-0053 (NB)**  
**SOUTH ABUTMENT - FIBER WRAP (FRP) DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	18
			CONTRACT NO. 66K27	
SCALE:		ILLINOIS FED. AID PROJECT		

SCALE: SHEET 8 OF 15 SHEETS STA. TO STA.

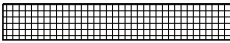
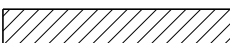



PIER 4

**STRUCTURE NO. 027-0053 (NB)**

**NORTH ABUTMENT**

**LEGEND**

-  I-BEAM REPAIR AREA
-  FIBER WRAP PANEL (FRP)
-  FIBER WRAP STRIP

**NOTES:**

1. "TWO" COATS OF THE ACRYLIC COATING SHALL BE APPLIED OVER FIBER WRAP REPAIRS. SEE SPECIAL PROVISION FOR "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".
2. I-BEAM REPAIR QUANTITIES ARE ESTIMATED. THE ENGINEER SHALL SOUND THE BEAM ENDS AT TIME OF CONSTRUCTION TO DETERMINE ACTUAL REPAIR AREAS.

**SCHEDULE  
STRUCTURE NO. 027-0053 (NB)  
NORTH ABUTMENT**

BEAM NO.	LOCATION	I-BEAM REPAIR		FIBER WRAP		ACRYLIC COATING
		SQ FT	PANELS	SQ FT	SQ YD	
1	WEST FACE	7.8	9	86	195	
	EAST FACE	5.4				
2	WEST FACE	2.1	2	19	36	
	EAST FACE	0.7				
3	WEST FACE	1.0	2	19	36	
	EAST FACE	1.9				
4	WEST FACE	1.6	2	19	36	
	EAST FACE	3.1				
5	WEST FACE	3.6	3	29	67	
	EAST FACE	3.8				
<b>TOTAL</b>		<b>31</b>	<b>18</b>	<b>172</b>	<b>370</b>	

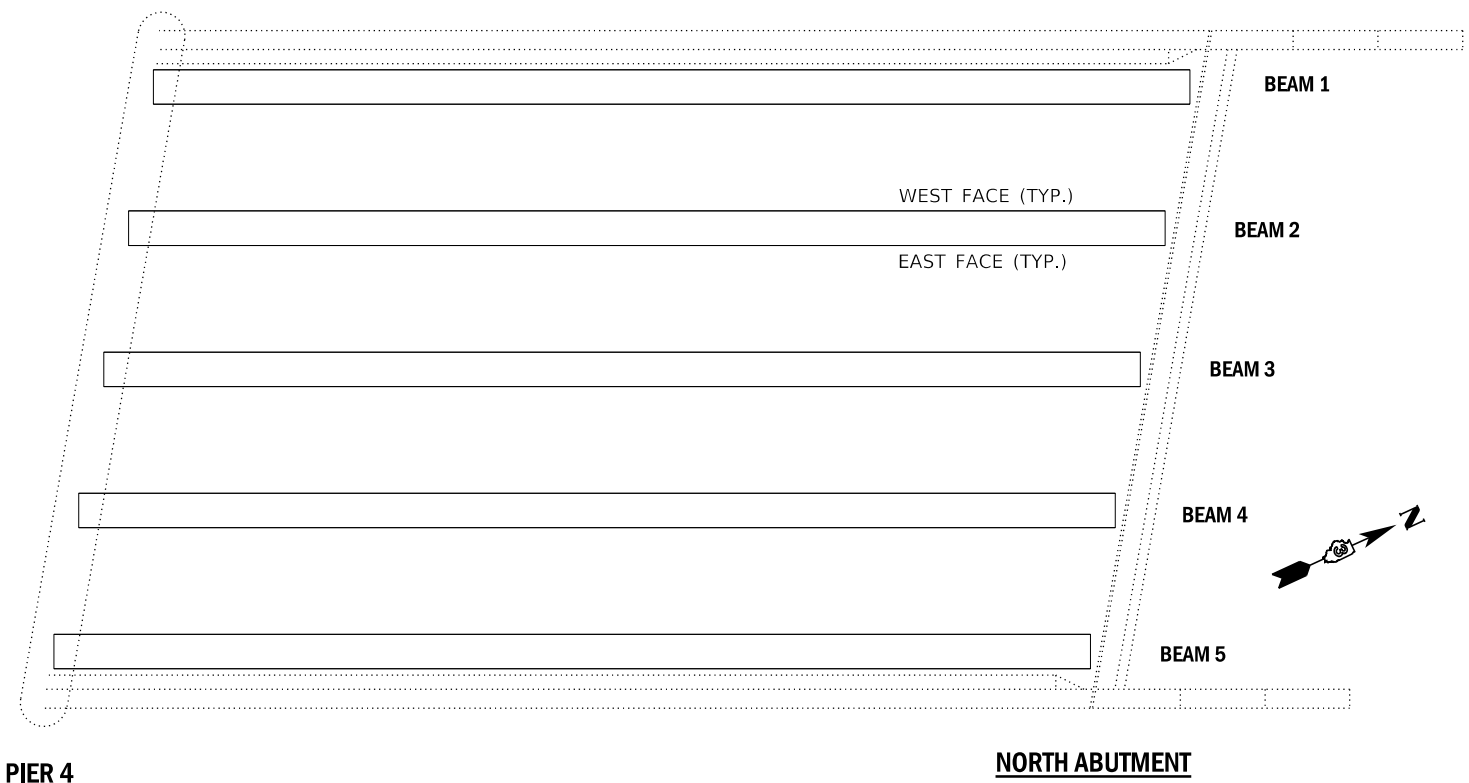
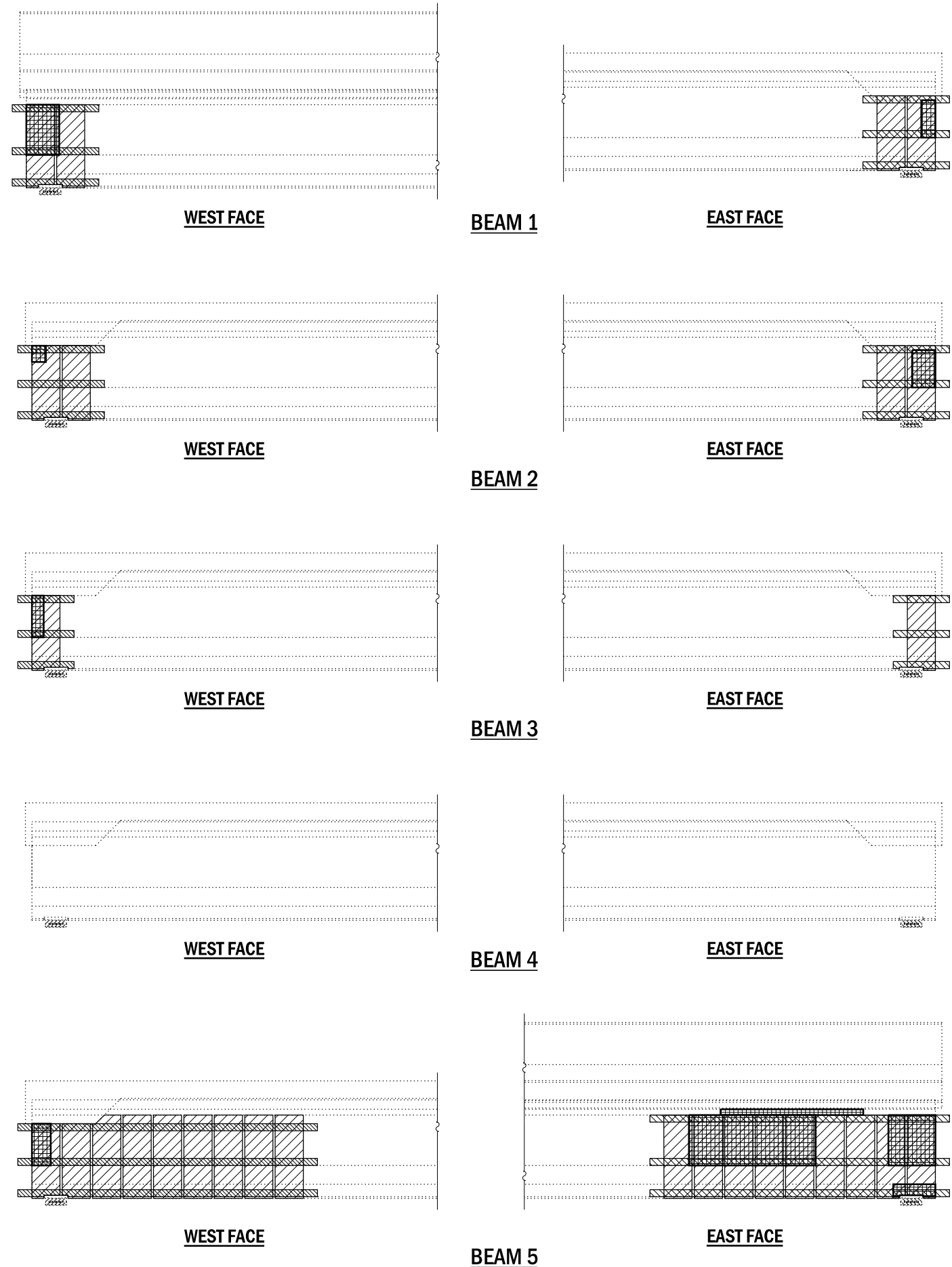
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE NO. 027-0053 (NB)  
NORTH ABUTMENT - FIBER WRAP (FRP) DETAILS**

SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	19
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				


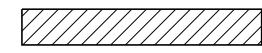
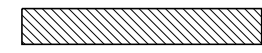


PIER 4

STRUCTURE NO. 027-0052 (SB)

NORTH ABUTMENT

**LEGEND**

-  I-BEAM REPAIR AREA
-  FIBER WRAP PANEL (FRP)
-  FIBER WRAP STRIP

**NOTES:**

1. "TWO" COATS OF THE ACRYLIC COATING SHALL BE APPLIED OVER FIBER WRAP REPAIRS. SEE SPECIAL PROVISION FOR "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".
2. I-BEAM REPAIR QUANTITIES ARE ESTIMATED. THE ENGINEER SHALL SOUND THE BEAM ENDS AT TIME OF CONSTRUCTION TO DETERMINE ACTUAL REPAIR AREAS.

**SCHEDULE**  
STRUCTURE NO. 027-0052 (SB)  
NORTH ABUTMENT

BEAM NO.	LOCATION	I - BEAM REPAIR		FIBER WRAP		ACRYLIC COATING
		SQ FT	PANELS	SQ FT	SQ YD	
1	WEST FACE	2.1	2	20	48	
	EAST FACE	0.8				
2	WEST FACE	0.4	2	19	36	
	EAST FACE	1.2				
3	WEST FACE	0.7	1	11	20	
	EAST FACE					
4	WEST FACE				6	
	EAST FACE					
5	WEST FACE	1.1	9	90	199	
	EAST FACE	12.7				
TOTAL		19	14	140	309	

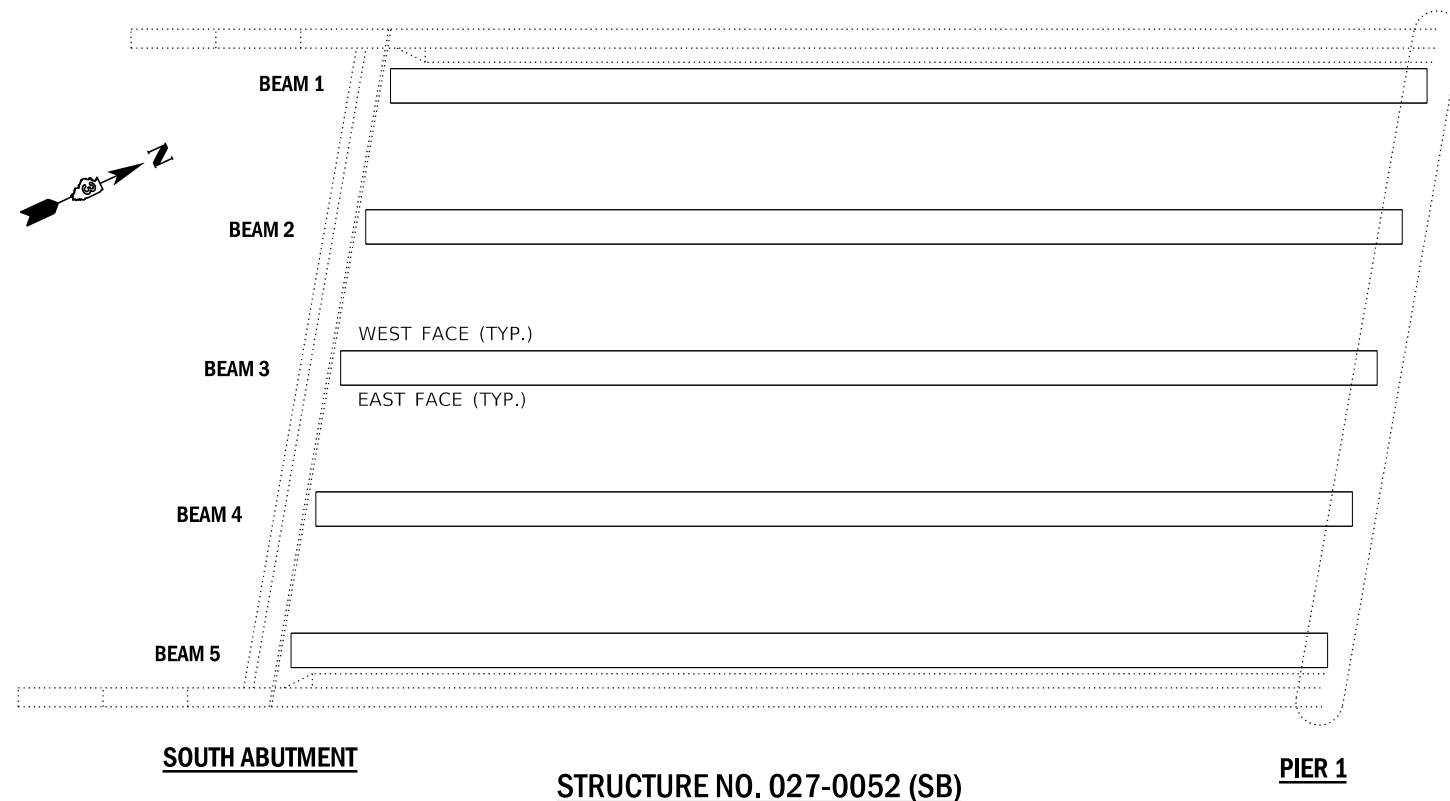
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	PLOT DATE = 7/18/2019		

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

**STRUCTURE NO. 027-0052 (SB)**  
**NORTH ABUTMENT - FIBER WRAP (FRP) DETAILS**

SCALE: SHEET 10 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	20
			CONTRACT NO. 66K27	
		ILLINOIS FED. AID PROJECT		



**LEGEND**

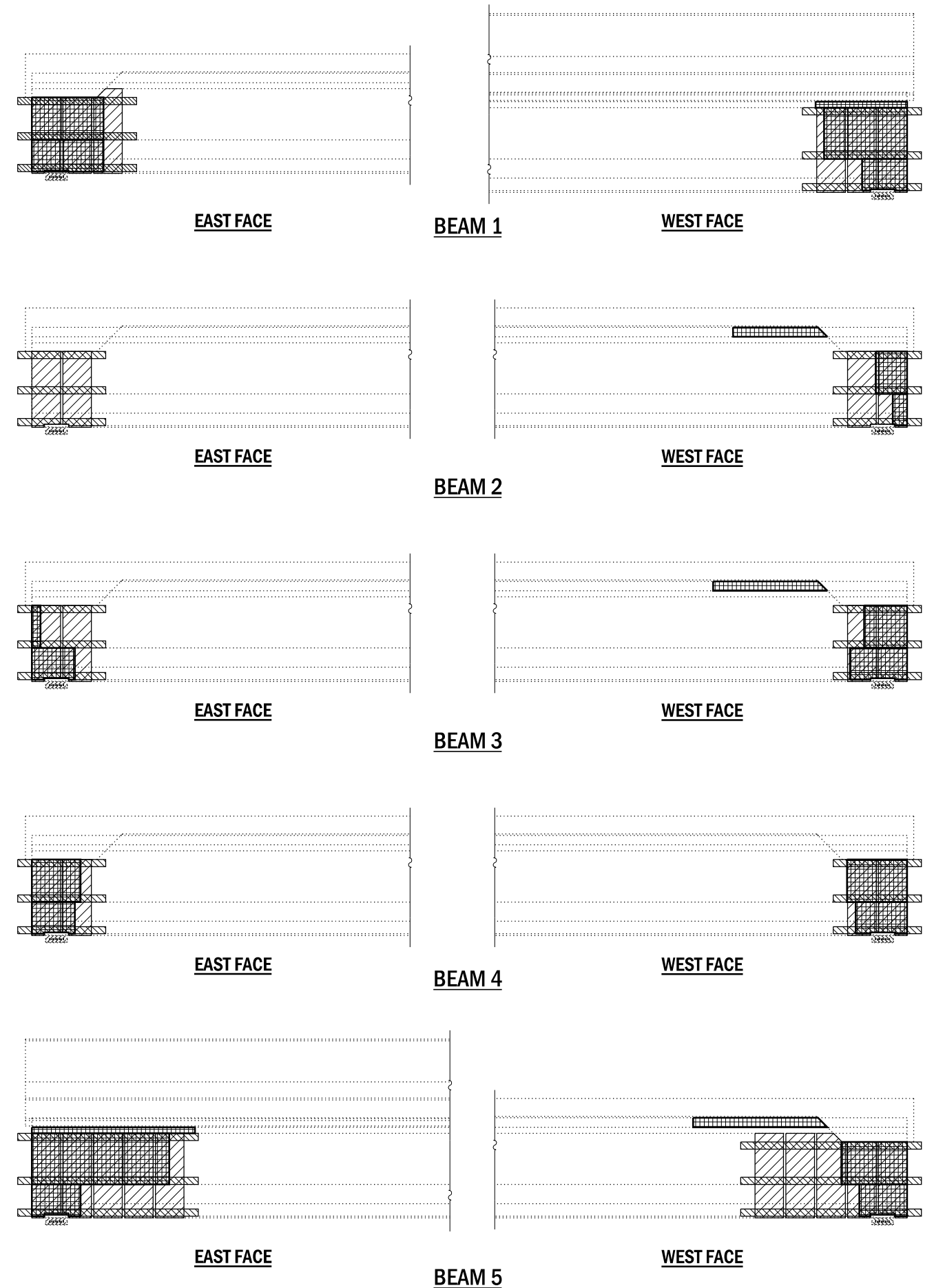
- I-BEAM REPAIR AREA
- FIBER WRAP PANEL (FRP)
- FIBER WRAP STRIP

**NOTES:**

1. "TWO" COATS OF THE ACRYLIC COATING SHALL BE APPLIED OVER FIBER WRAP REPAIRS. SEE SPECIAL PROVISION FOR "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".
2. I-BEAM REPAIR QUANTITIES ARE ESTIMATED. THE ENGINEER SHALL SOUND THE BEAM ENDS AT TIME OF CONSTRUCTION TO DETERMINE ACTUAL REPAIR AREAS.

**SCHEDULE**  
STRUCTURE NO. 027-0052 (SB)  
SOUTH ABUTMENT

BEAM NO.	I - BEAM REPAIR		FIBER WRAP		ACRYLIC COATING
	LOCATION	SQ FT	PANELS	SQ FT	SQ YD
1	WEST FACE	5.2	3	31	71
	EAST FACE	7.1			
2	WEST FACE	3.0	2	19	36
	EAST FACE				
3	WEST FACE	5.9	2	19	36
	EAST FACE	2.5			
4	WEST FACE	5.5	2	19	36
	EAST FACE	4.5			
5	WEST FACE	7.2	5	48	93
	EAST FACE	12.1			
TOTAL		53	14	136	272



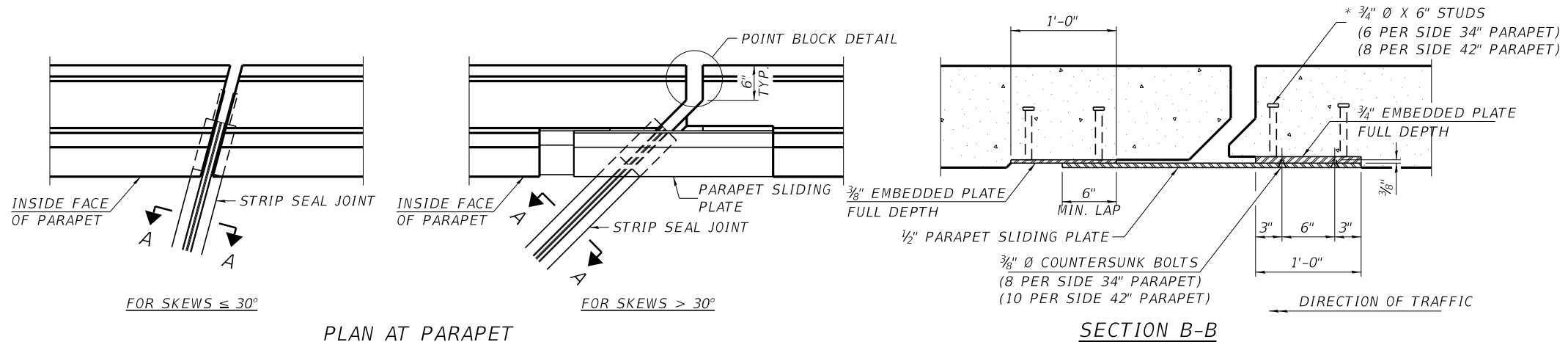
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STRUCTURE NO. 027-0052 (SB)**  
**SOUTH ABUTMENT - FIBER WRAP (FRP) DETAILS**

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

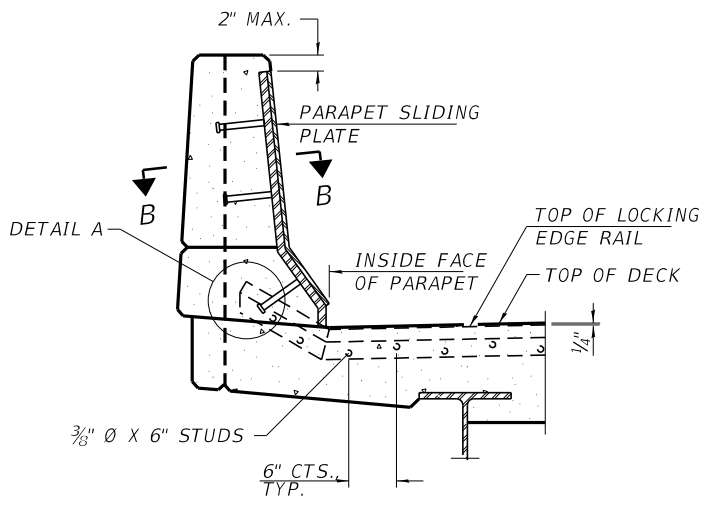
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	21
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				



PLAN AT PARAPET

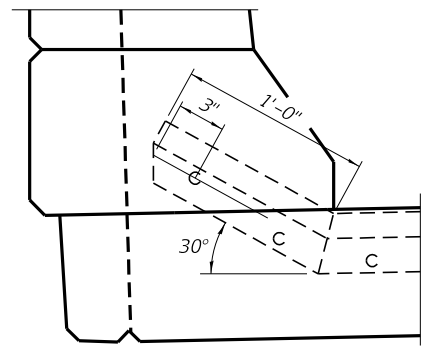
SECTION B-B

NOTES:  
 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 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 1/16" AND SEALED WITH A SUITABLE SEALANT; HOWEVER, ANY RAIL JOINT WITHIN 10' MEASURED PERPENDICULAR TO THE FACE OF THE CURB OR PARAPET SHALL BE WELDED AS SHOWN IN THE LOCKING EDGE RAIL SPLICE DETAIL.  
 COST OF PARAPET SLIDING PLATES, EMBEDDED PLATES, AND ANCHORAGE STUDS INCLUDED WITH PREFORMED JOINT STRIP SEAL. 34" F-SHAPE BARRIER SHOWN, 42" F-SHAPE SIMILAR AS NOTED.  
 THE CONCRETE OPENING BELOW THE STRIP SEAL WILL VARY BASED ON THE LOCKING EDGE RAIL CHOSEN BY THE CONTRACTOR. DECK AND PARAPET LENGTHS SHOWN ELSEWHERE IN THE PLANS ARE DIMENSIONED TO THE CONCRETE OPENING, NOT THE JOINT OPENING, AND ARE BASED ON THE ROLLED LOCKING EDGE RAIL. IF THE CONTRACTOR ELECTS TO USE A DIFFERENT LOCKING EDGE RAIL, DIMENSIONAL ADJUSTMENTS MAY BE REQUIRED. ONE EXCEPTION TO THIS WOULD BE THE STRIP SEAL JOINT AT THE END OF THE PRECAST BRIDGE APPROACH SLAB. FOR THESE CASES THE PAVEMENT CONNECTOR LENGTH SHALL BE ADJUSTED, NOT THE LENGTH OF THE BRIDGE APPROACH SLAB.

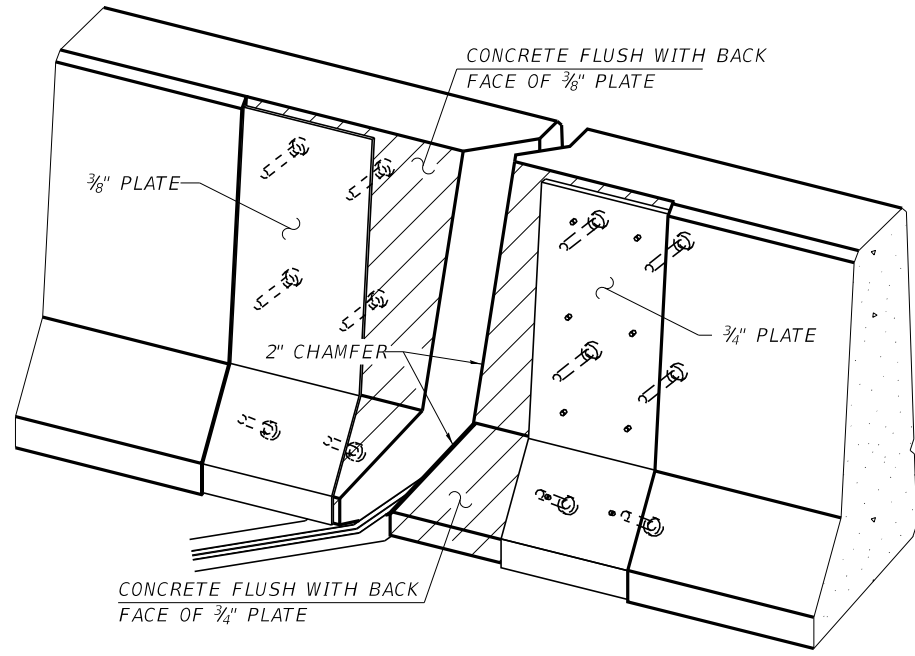


ELEVATION AT PARAPET

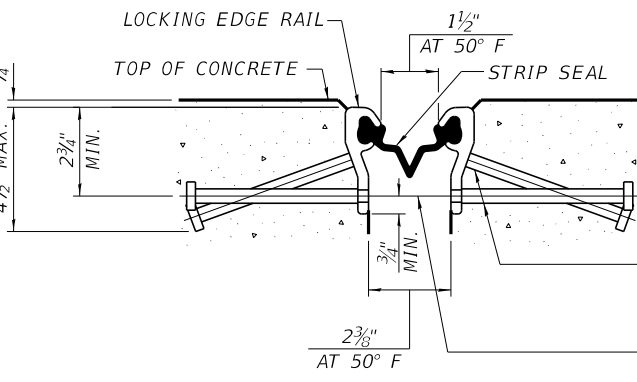
(SKEWS > 30° SHOWN. SKEWS <= 30° SIMILAR EXCEPT AS SHOWN IN PLAN VIEW.)



DETAIL A



TRIMETRIC VIEW (SHOWING EMBEDDED PLATES ONLY)

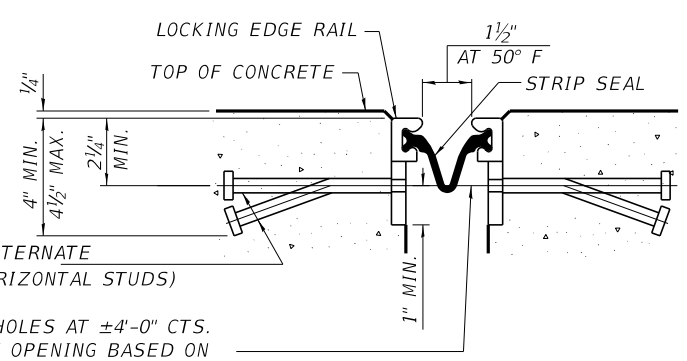


SHOWING ROLLED RAIL JOINT

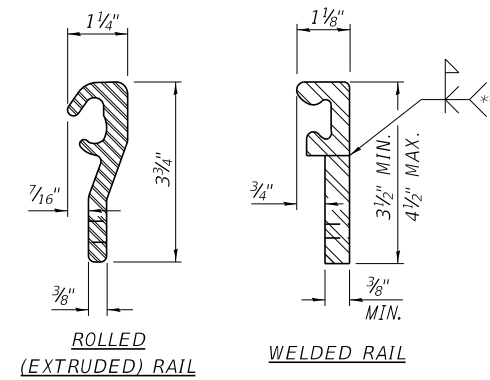
\* 5/8" Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS)  
 \* 3/8" Ø THREADED RODS IN 7/16" Ø HOLES AT ±4'-0" CTS. FOR HOLDING THE PROPER JOINT OPENING BASED ON THE TEMPERATURE DURING THE DECK POUR. PLACE TO MISS STUDS. ALL RODS SHALL BE BURNED, OR SAWED OFF FLUSH WITH THE 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.

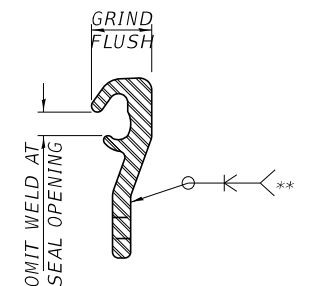


SHOWING WELDED RAIL JOINT



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  
 STRUCTURE NO. 027-0053 (NB)

ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	71

BILL OF MATERIAL  
 STRUCTURE NO. 027-0052 (SB)

ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	71

EJ-SS

8-11-17

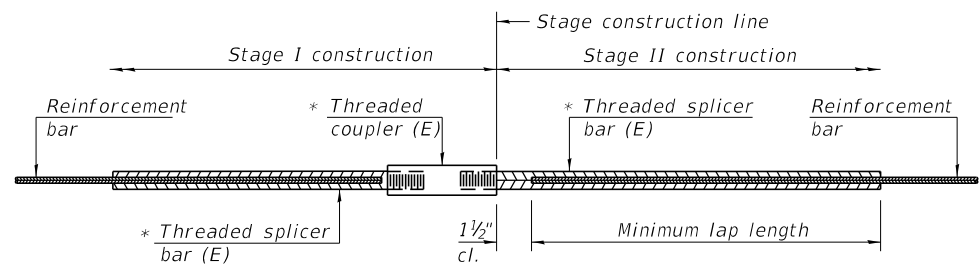
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PLOT DATE = 7/18/2019		DATE - 3/13/2019	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STRIP SEAL EXPANSION JOINT DETAILS

SCALE: SHEET 12 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-38B)BRR	FORD	26	22
			CONTRACT NO. 66K27	
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

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

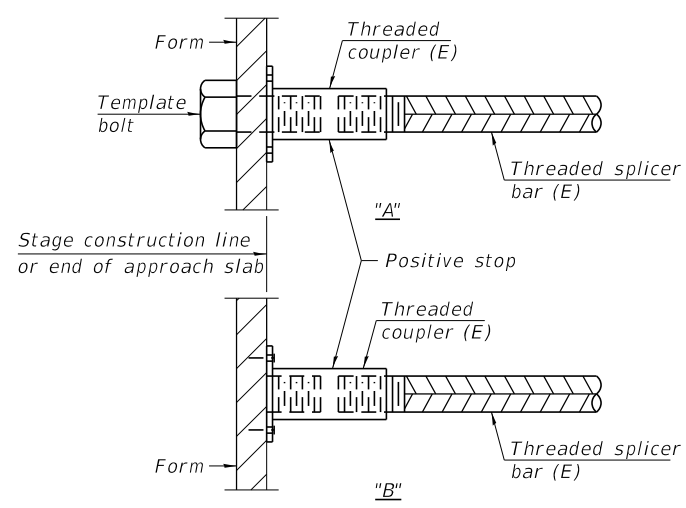
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

**STRUCTURE NO. 027-0052 (SB)**

Location	Bar size	No. assemblies required	Minimum lap length
N. ABUT DECK	#7	2	4'-8"
N.ABUT HATCHBLOCK	#6	2	3'-7"
S. ABUT DECK	#7	2	4'-8"
S.ABUT HATCHBLOCK	#6	2	3'-7"

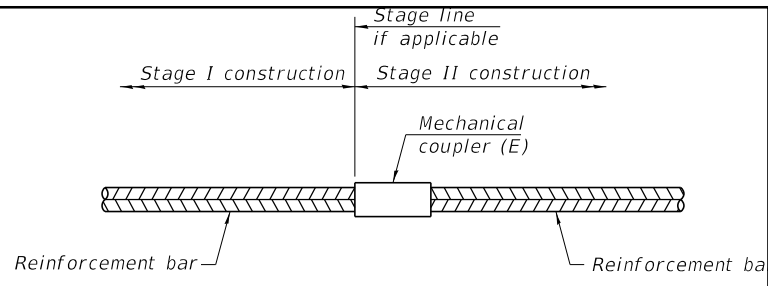
**STRUCTURE NO. 027-0053 (NB)**

Location	Bar size	No. assemblies required	Minimum lap length
N. ABUT DECK	#7	2	4'-8"
N.ABUT HATCHBLOCK	#6	2	3'-7"
S. ABUT DECK	#7	2	4'-8"
S.ABUT HATCHBLOCK	#6	2	3'-7"



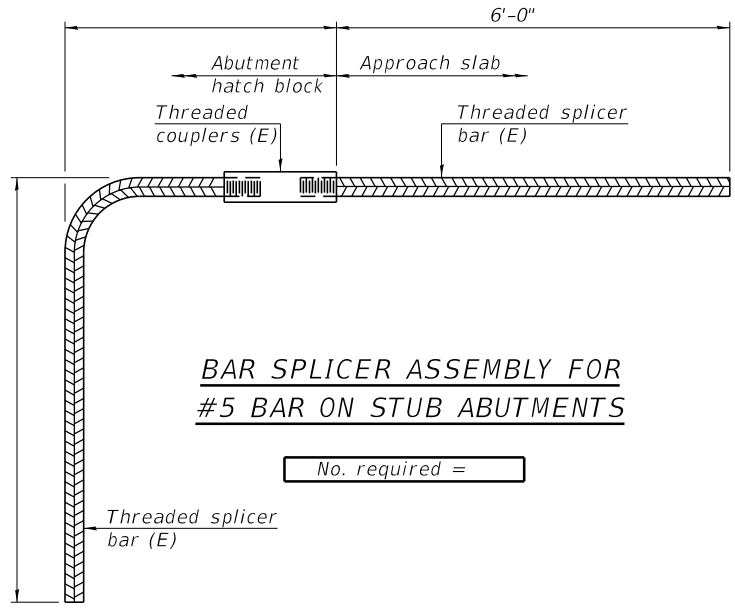
**INSTALLATION AND SETTING METHODS**

"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



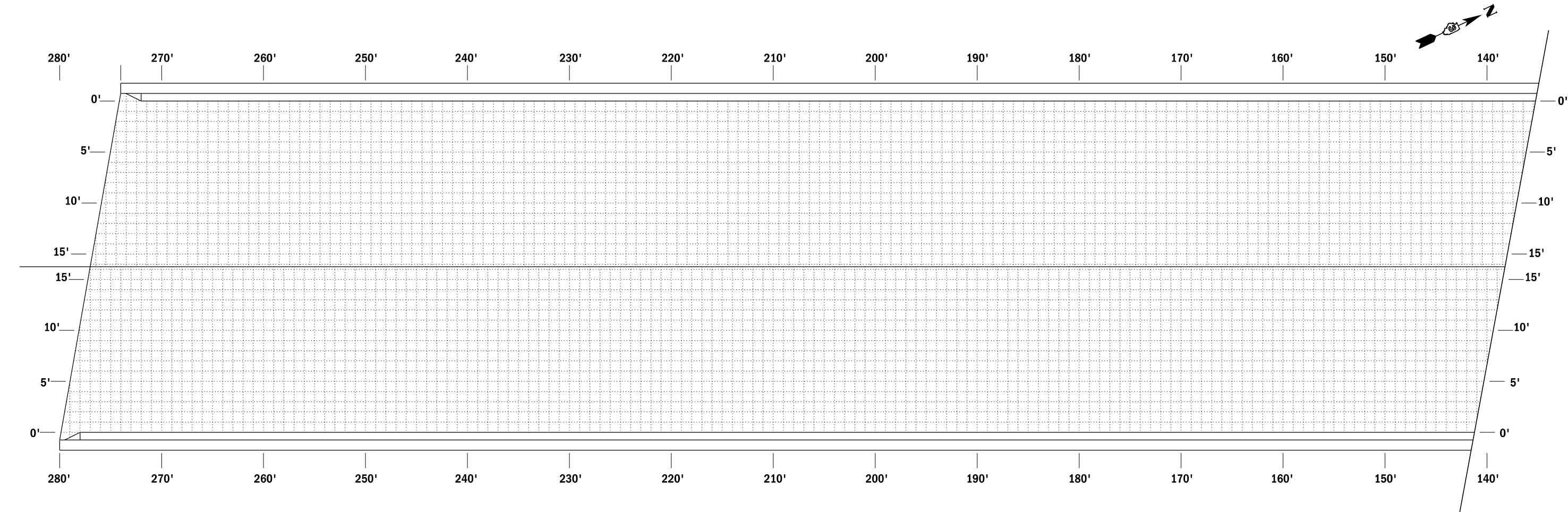
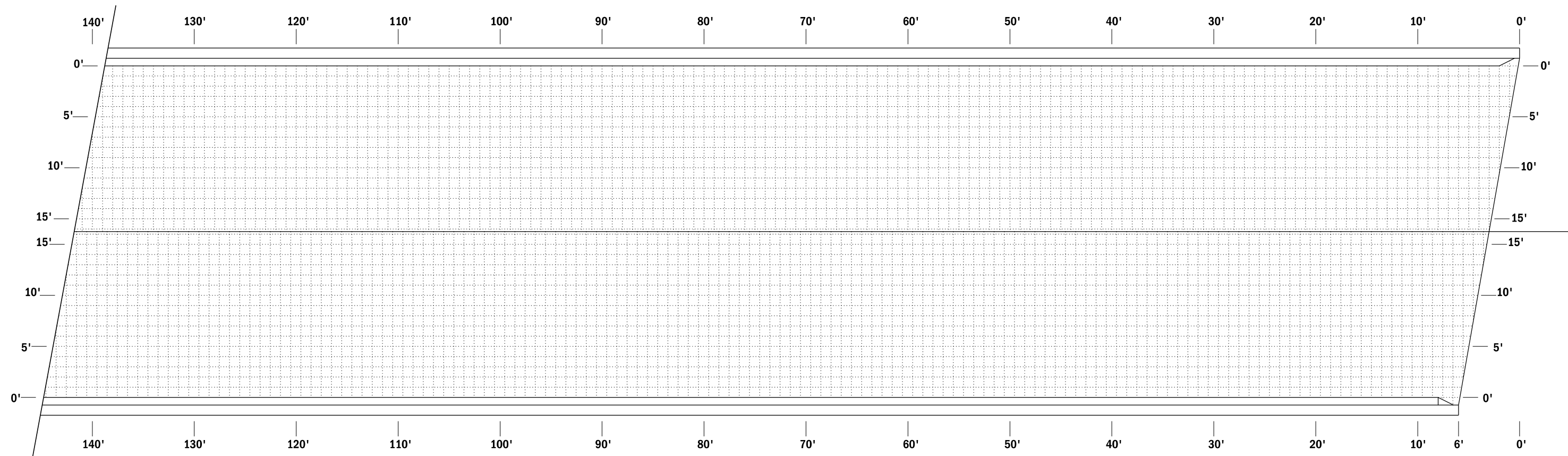
**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. 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



NOTE: THE ENGINEER SHALL SOUND THE ENTIRE DECK AREA FOR DECK SLAB REPAIR AREAS AND RECORD ACTUAL REPAIR AREAS ON THE "AS-BUILT" PLAN DETAILS

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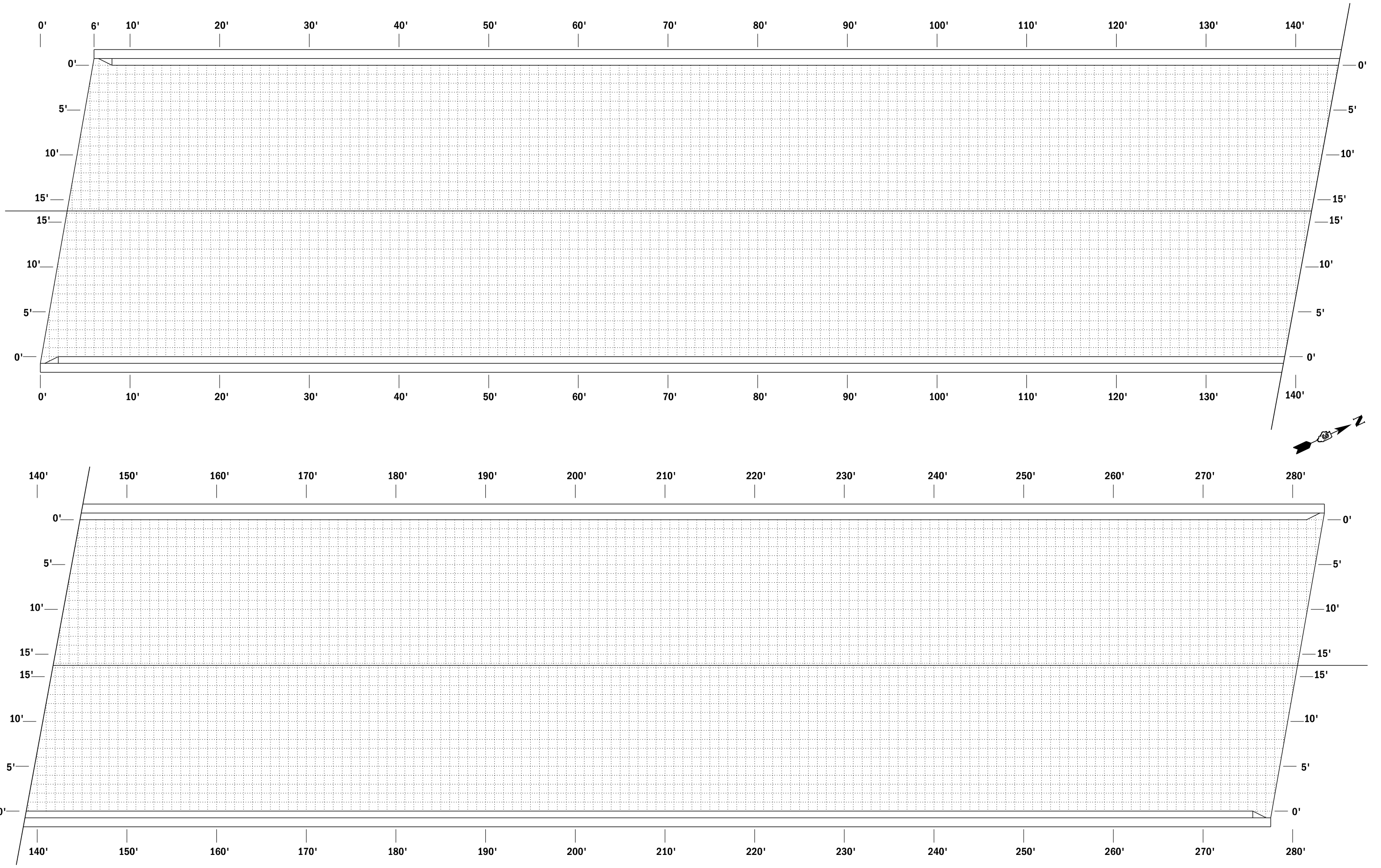
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**"AS-BUILT" DECK SLAB REPAIR**  
**STRUCTURE NO. 027-0052 (SB)**

SCALE: SHEET 14 OF 15 SHEETS STA. 1728+96.18 TO STA. 1731+77.01

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-388)BRR	FORD	26	24
			CONTRACT NO. 66K27	
		ILLINOIS	FED. AID PROJECT	





NOTE: THE ENGINEER SHALL SOUND THE ENTIRE DECK AREA FOR DECK SLAB REPAIR AREAS AND RECORD ACTUAL REPAIR AREAS ON THE "AS-BUILT" PLAN DETAILS

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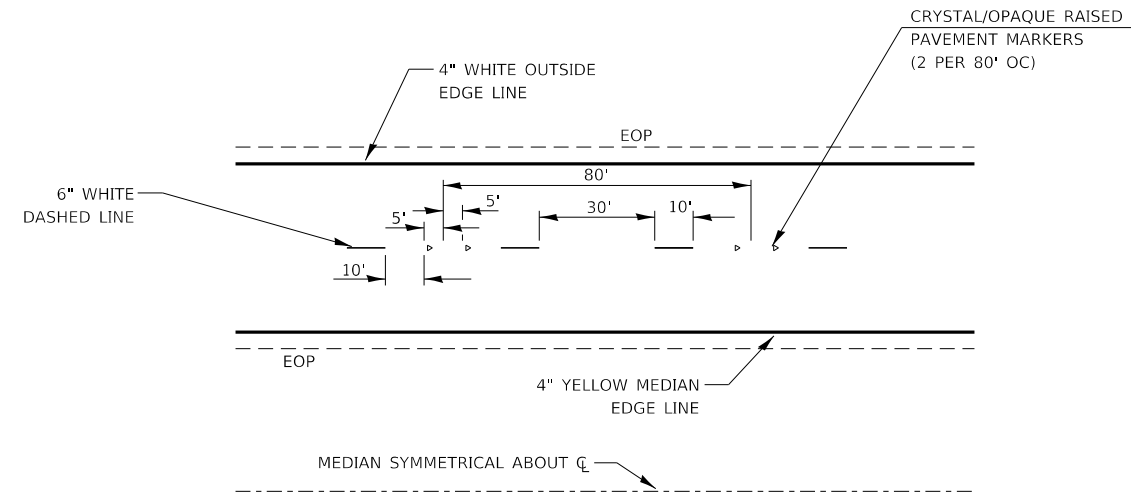
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

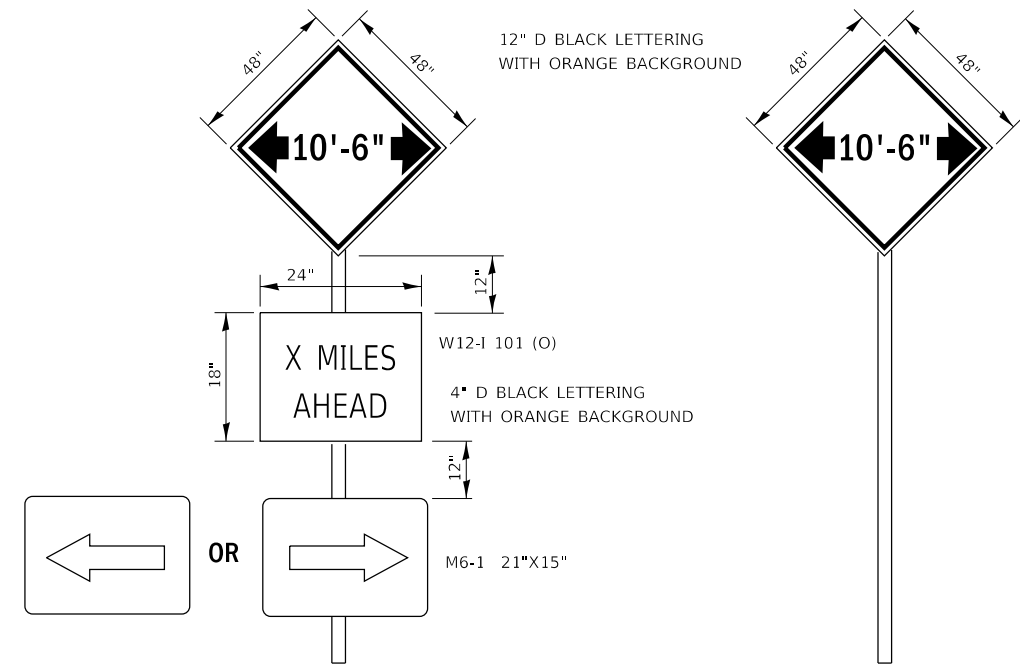
**"AS-BUILT" DECK SLAB REPAIR**  
**STRUCTURE NO. 027-0053 (NB)**

SCALE: SHEET 15 OF 15 SHEETS STA. 1728+80.66 TO STA. 1731+61.49

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(27-388)BRR	FORD	26	25
CONTRACT NO. 66K27			ILLINOIS FED. AID PROJECT	



**TYPICAL PAVEMENT MARKINGS**



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

**WIDTH RESTRICTION SIGNING DETAILS**

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISCELLANEOUS DETAILS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 7/18/2019	DATE - 3/13/2019	REVISED -						ILLINOIS FED. AID PROJECT			