

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	1
ILLINOIS		CONTRACT NO. 66H25		

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
- 3 - 5. SUMMARY OF QUANTITIES
6. TYPICAL SECTION
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9. TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL)
10. TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
11. DETAILS
- 12 - 27. STRUCTURE REPAIR PLANS

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 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
- 701901-07 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER

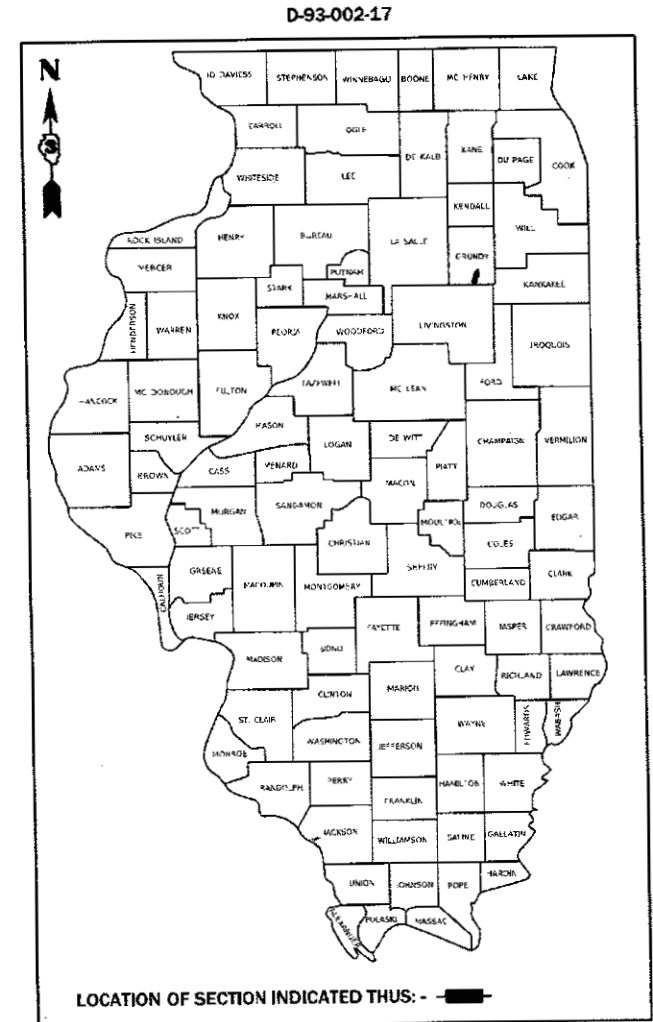
PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55 (I-55) SECTION (32-3B-1)BRR PROJECT BRIDGE REPAIRS GRUNDY COUNTY

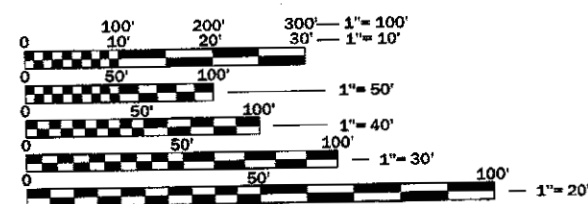
C-93-062-17

PROJECT LOCATION

STRUCTURE NO. 032-0082 (SB)
STRUCTURE NO. 032-0083 (NB)
CARRYING F.A.I. ROUTE 55 (I-55)
OVER GOOSEBERRY CREEK
AT STA. 439+33
1.0 MILE EAST OF IL ROUTE 47



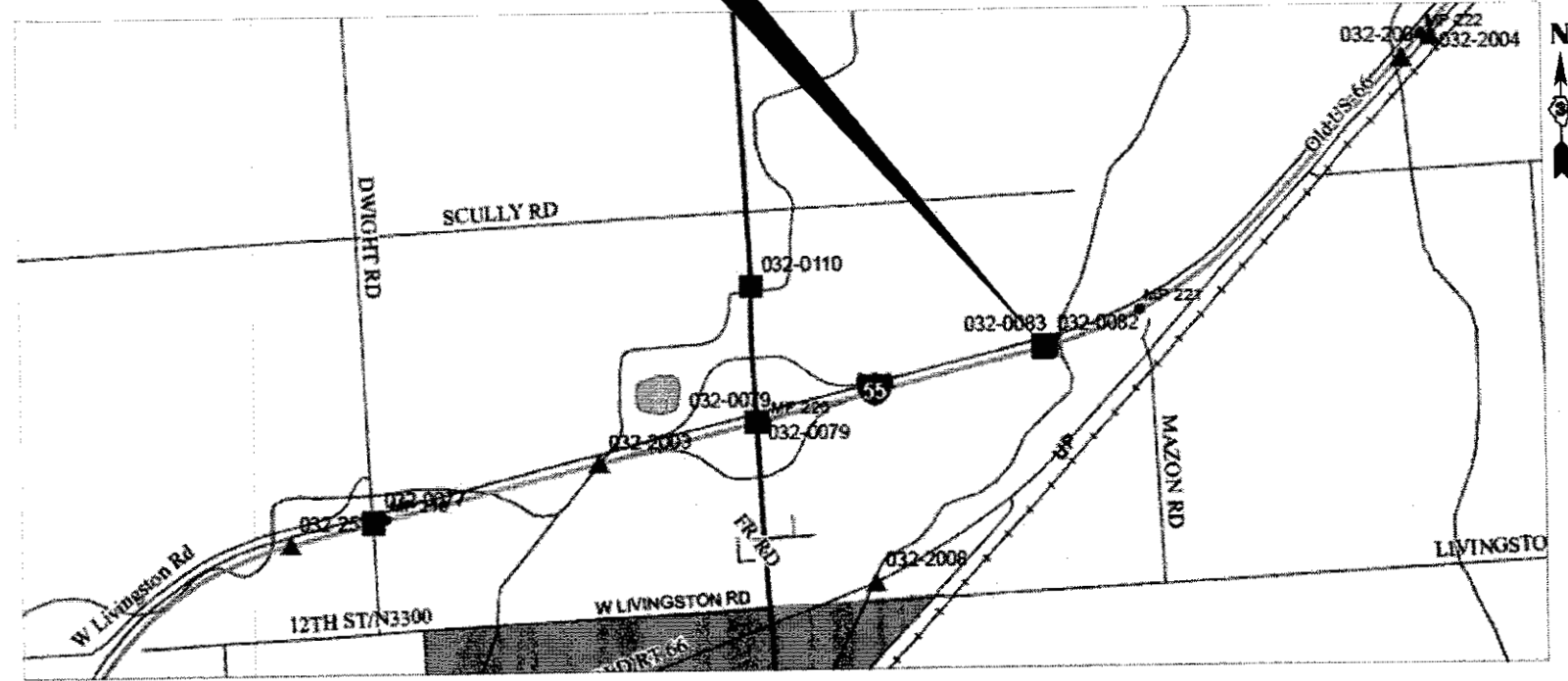
FUNCTIONAL CLASSIFICATION
RURAL INTERSTATE
F.A.I. ROUTE 55 (I-55)
2017 ADT = 25000
P.V. 68.6% S.U. 5.8% M.U. 25.6%



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.
1-800-892-0123
OR 811

PROJECT ENGINEER: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT NO. 3 (815) 434-6131
CONTRACT NO. 66H25



S.N. 032-0082 (NB)
GROSS LENGTH = 92.0 FT. = 0.017 MILE
NET LENGTH = 92.0 FT. = 0.017 MILE

S.N. 032-0083 (SB)
GROSS LENGTH = 92.0 FT. = 0.017 MILE
NET LENGTH = 92.0 FT. = 0.017 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 03/30 2018
Kim Mankel (w)
REGIONAL ENGINEER

May 11 2018
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 01 2018
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

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.

COMMITMENTS

THE ENGINEER SHALL RECORD FINAL LOCATIONS AND QUANTITIES FOR DECK SLAB REPAIR (PARTIAL DEPTH), DECK SLAB REPAIR (FULL DEPTH), STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5") AND STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5") ON "AS-BUILT" DETAIL SHEETS AND SUBMIT THEM TO THE BRIDGE OFFICE IN SPRINGFIELD FOR THEIR RECORDS IN A TIMELY MANNER AFTER PROJECT COMPLETION. CONTACT PERSON IS VICTOR VELIZ, PHONE: (217)-782-2708.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

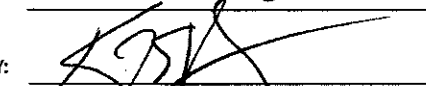

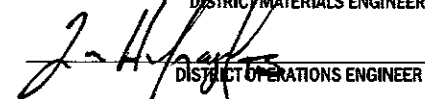
START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: 
DISTRICT STUDIES & PLANS ENGINEER

DATE: 3-30-18

EXAMINED BY: 
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.I. RATE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	2
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
CONTRACT MAINTENANCE 100% STATE	
BRIDGE 0047 S.N. 032-0082	BRIDGE 0047 S.N. 032-0083

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	758	379	379
50102400	CONCRETE REMOVAL	CU YD	58.8	29.4	29.4
50104000	BRIDGE RAIL REMOVAL	FOOT	472	236	236
50300100	FLOOR DRAINS	EACH	12	6	6
50300225	CONCRETE STRUCTURES	CU YD	2.8	1.4	1.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	62.4	31.2	31.2
50300260	BRIDGE DECK GROOVING	SQ YD	700	350	350
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	35880	17940	17940
50800515	BAR SPLICERS	EACH	56	28	28
50800530	MECHANICAL SPLICERS	EACH	1568	784	784
52000110	PREFORMED JOINT STRIP SEAL	FOOT	168	84	84
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2		2
63200310	GUARDRAIL REMOVAL	FOOT	110		110
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1.5	1.5
67100100	MOBILIZATION	L SUM	1	0.5	0.5

* SPECIALTY ITEMS

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ILLINOIS FED. AID PROJECT								CONTRACT NO. 66H25	

CONSTRUCTION CODE	
CONTRACT MAINTENANCE	
100% STATE	
BRIDGE	BRIDGE
0047	0047
S.N. 032-0082	S.N. 032-0083

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 S.N. 032-0082	BRIDGE 0047 S.N. 032-0083
70300100	SHORT TERM PAVEMENT MARKING	FOOT	384	192	192
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	126	63	63
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1250	625	625
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1150	575	575
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
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2172	1086	1086
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	960	480	480
X0325748	ACRYLIC COATING	SQ YD	396	175	221
X0325749	FIBER WRAP	SQ FT	1205	740	465
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	8	4	4
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOURL	520	260	260
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	4	2	2
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1200	600	600

* SPECIALTY ITEMS

14

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION (32-3B-1)BRR	COUNTY GRUNDY	TOTAL SHEETS 27	SHEET NO. 4
			CONTRACT NO. 66H25	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
CONTRACT MAINTENANCE 100% STATE	
BRIDGE 0047	BRIDGE 0047
S.N. 032-0082	S.N. 032-0083

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
X5080525	BAR SPLICERS, SPECIAL	EACH	20	10	10
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	8330	4165	4165
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	1	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	90	45	45
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	522	261	261
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	522	261	261
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	23.7	7	16.7
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE 11)	SQ YD	27	10	17
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	60.5	33.7	26.8

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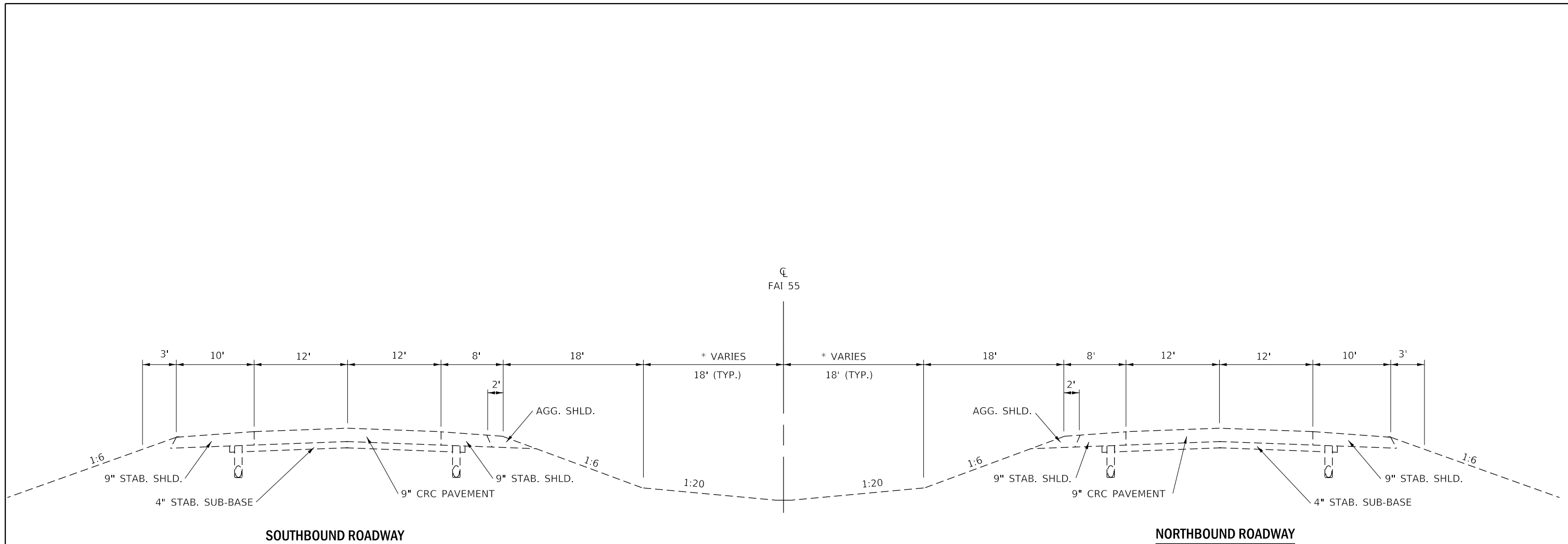
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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE. 55	SECTION (32-38-1)BRR	COUNTY GRUNDY	TOTAL SHEETS 27	SHEET NO. 5
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION

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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	6
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				

SCHEDULE
STRUCTURE NO. 032-0083 (NB)

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
	SQ FT	FOOT	SQ FT	FOOT	FOOT	EACH
STAGE I	420					
STAGE II	180	192	63	1086	480	4
TOTAL	600	192	63	1086	480	4

SCHEDULE
STRUCTURE NO. 032-0083 (NB)

LOCATION	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL TYPE 6
	FOOT	EACH
NW CORNER	55	1
SW CORNER	55	1
TOTAL	110	2

SCHEDULE
STRUCTURE NO. 032-0083 (NB)

LOCATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	EACH	FOOT	FOOT
STAGE I	1	625	
STAGE II			575
TOTAL	1	625	575

SCHEDULE
STRUCTURE NO. 032-0082 (SB)

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
	SQ FT	FOOT	SQ FT	FOOT	FOOT	EACH
STAGE I	420					
STAGE II	180	192	63	1086	480	4
TOTAL	600	192	63	1086	480	4

SCHEDULE
STRUCTURE NO. 032-0082 (SB)

LOCATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	EACH	FOOT	FOOT
STAGE I	1	625	
STAGE II			575
TOTAL	1	625	575

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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	7
			CONTRACT NO. 66H25	
		ILLINOIS	FED. AID PROJECT	

SCHEDULE
STRUCTURE NO. 032-0083 (NB)

PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR				FIBER WRAP	ACRYLIC COATING
REPAIR DIMENSIONS				SQ FT	SQ YD
NO.	LENGTH (ft)	VERTICAL (ft)	SQ FT	SQ FT	SQ YD
1A	3.3	1.0	3.3	36.0	8
2A	2.0	0.7	1.4	25.0	6
3A	2.0	0.5	1.0	25.0	6
4A	0.9	0.9	0.8	13.0	3
5A	2.0	0.7	1.4	25.0	6
6A	2.0	1.0	2.0	25.0	6
7A	1.0	0.5	0.5	13.0	3
8A	2.0	0.5	1.0	25.0	6
9A	2.0	0.7	1.4	25.0	6
10A	2.0	0.5	1.0	25.0	6
11A	0.5	0.5	0.3	13.0	3
12A	2.0	0.8	1.6	25.0	6
13A	0.5	0.5	0.3	13.0	3
14A	1.3	0.5	0.7	13.0	3
15A	1.3	0.5	0.7	13.0	3
16A	1.3	0.5	0.7	13.0	3
17A	2.0	0.7	1.4	25.0	6
18A	1.1	1.0	1.1	13.0	3
19A	1.3	1.0	1.3	13.0	3
20A	2.0	0.8	1.6	25.0	6
21A	1.0	1.0	1.0	13.0	3
22A	1.0	1.0	1.0	13.0	3
23A	2.5	0.5	1.3	36.0	8
24A					56
25A					56
TOTAL			26.8	465.0	221

ACRYLIC COATING QUANTITY BASED ON "TWO" COATS ON FIBER WRAP AND ONE COAT
(THE ENTIRE LENGTH OF BEAM) ON THE EXTERIOR FACE AND BOTTOM FACE OF FASCIA BEAMS.

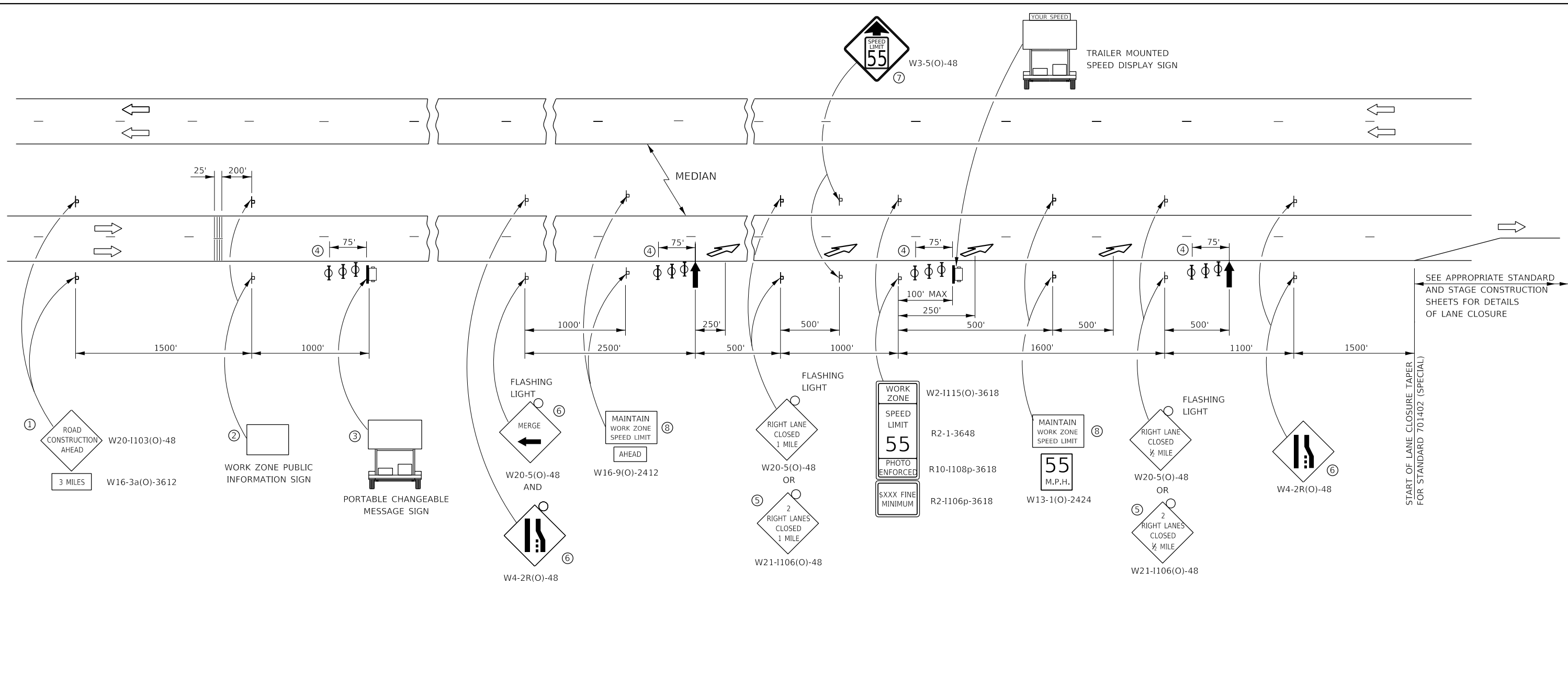
SCHEDULE
STRUCTURE NO. 032-0082 (SB)

PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR				FIBER WRAP	ACRYLIC COATING
REPAIR DIMENSIONS				SQ FT	SQ YD
NO.	LENGTH (ft)	VERTICAL (ft)	SQ FT	SQ FT	SQ YD
1B	0.5	0.5	0.3	13.0	3
2B	0.5	0.5	0.3	13.0	3
3B	3.0	0.5	1.5	36.0	8
4B	2.0	0.8	1.6	25.0	6
5B	2.0	0.7	1.4	25.0	6
6B	2.0	0.5	1.0	25.0	6
7B	1.0	0.8	0.8	13.0	3
8B	2.0	0.8	1.6	25.0	6
9B	2.0	1.0	2.0	25.0	6
10B	2.0	0.8	1.6	25.0	6
11B	0.6	0.5	0.3	13.0	3
12B	0.7	0.5	0.4	13.0	3
13B	2.0	0.7	1.4	25.0	6
14B	3.0	0.5	1.5	36.0	8
15B	0.5	0.5	0.3	13.0	3
16B	1.5	0.5	0.8	25.0	6
17B	1.7	0.5	0.9	25.0	6
18B	2.0	0.8	1.6	25.0	6
19B	1.5	0.5	0.8	25.0	6
20B	2.0	1.0	2.0	25.0	6
21B	0.8	0.5	0.4	13.0	3
22B	1.5	0.5	0.8	25.0	6
23B	2.0	0.5	1.0	25.0	6
24B	2.0	0.7	1.4	25.0	6
25B	0.5	0.5	0.3	13.0	3
26B	1.5	0.5	0.8	25.0	6
27B	2.0	0.7	1.4	25.0	6
28B	0.7	0.5	0.4	13.0	3
29B	1.5	0.5	0.8	25.0	6
30B	2.0	0.7	1.4	25.0	6
31B	1.3	0.7	0.9	13.0	3
32B	1.5	0.5	0.8	25.0	6
33B	1.5	0.5	0.8	25.0	6
34B	0.8	0.5	0.4	13.0	3
35B					56
36B					56
TOTAL			33.7	740	175

ACRYLIC COATING QUANTITY BASED ON "TWO" COATS ON FIBER WRAP AND ONE COAT
(THE ENTIRE LENGTH OF BEAM) ON THE EXTERIOR FACE AND BOTTOM FACE OF FASCIA BEAMS.

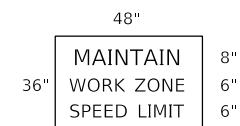
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USER NAME = woodyerjp	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RW	REVISED -		55	(32-3B-1)BRR	GRUNDY	27	8			
PLOT SCALE = 100.0000' / in.	CHECKED - EP	REVISED -		SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 66H25				
PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -		ILLINOIS		FED. AID PROJECT					



- 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
- Φ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▨ TEMPORARY THERMOPLASTIC RUMBLE STRIPS

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 ARROW BOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

COST OF LANE DROP ARROWS AND TEMPORARY RUMBLE STRIPS SHALL BE INCLUDED IN THIS STANDARD.

SEE SPECIAL PROVISIONS.

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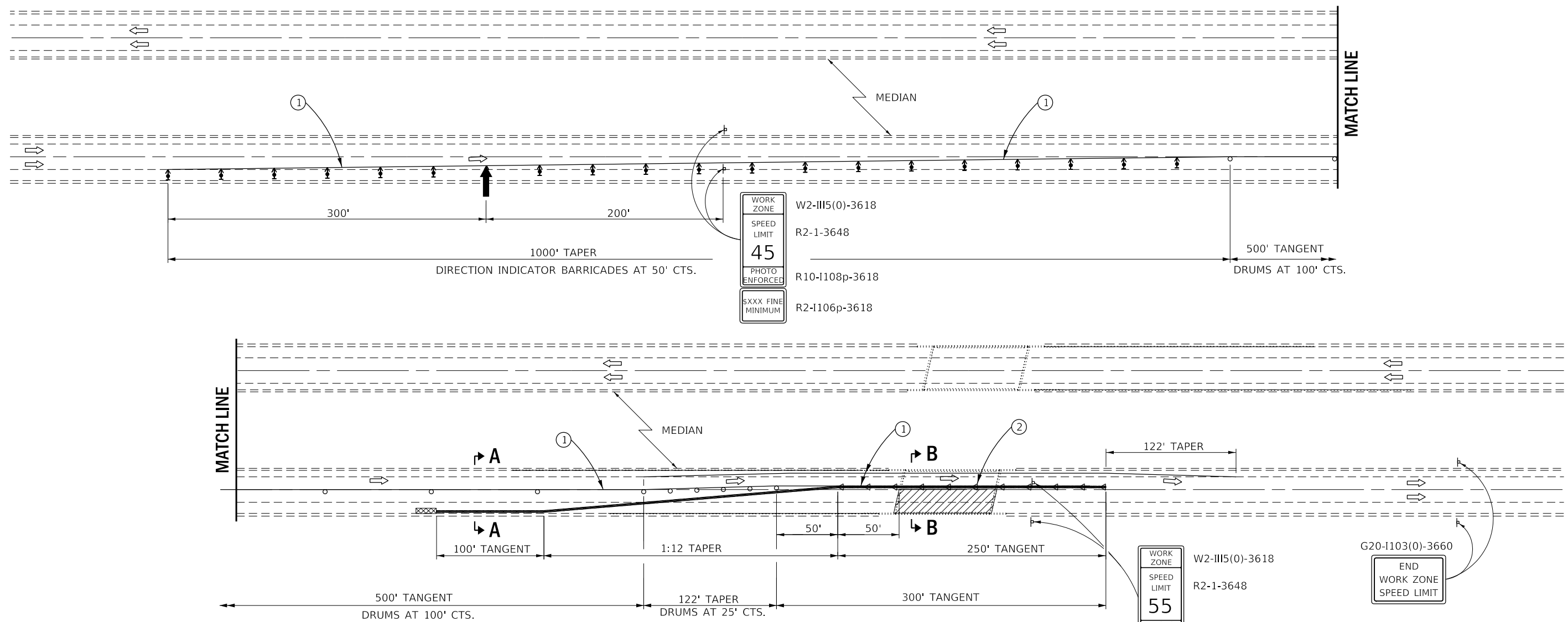
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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL)

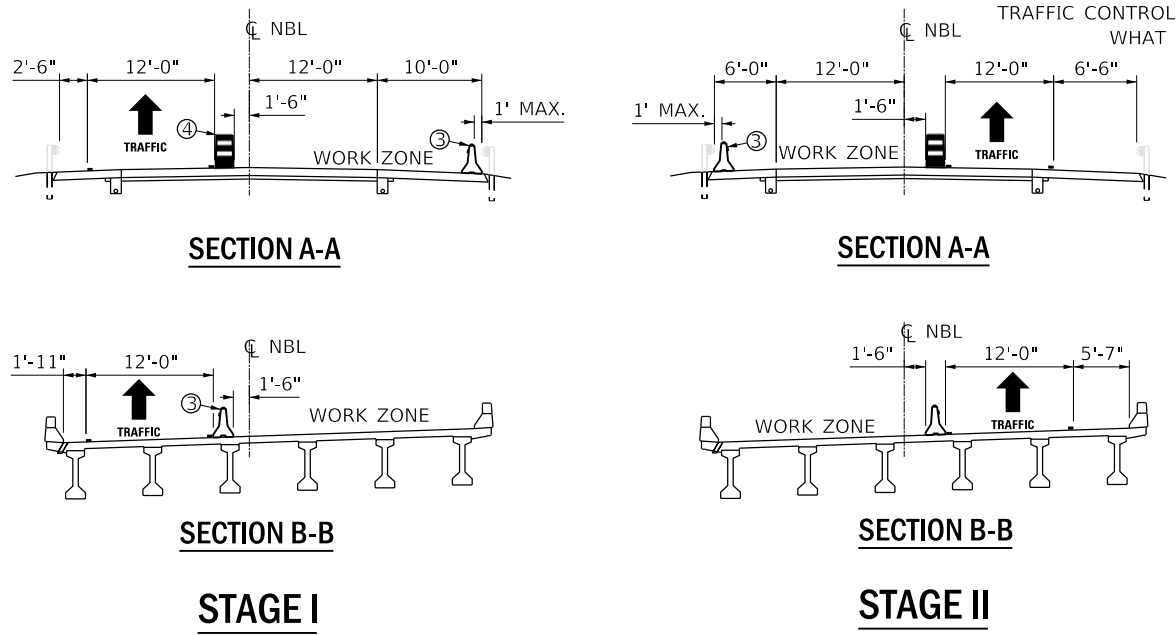
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	9
			CONTRACT NO. 66H25	
		ILLINOIS	FED. AID PROJECT	



**PLAN
STAGE I**

WHEN WORK IS BEING PERFORMED IN THE OPPOSITE DIRECTION OF TRAVEL, TRAFFIC CONTROL AND PROTECTION SHALL BE THE SAME AS TO WHAT IS SHOWN THROUGH 180° DEGREE ROTATION



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ SIGN
- ⬇️ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
- ▬ TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- ▩ IMPACT ATTENUATOR

- 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.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' (7.6 M). MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- ③ TEMPORARY CONCRETE BARRIER.
- ④ TRAFFIC CONTROL DRUM

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 (SPECIAL).

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, FOR STAGE II, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN FOR STAGE I.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

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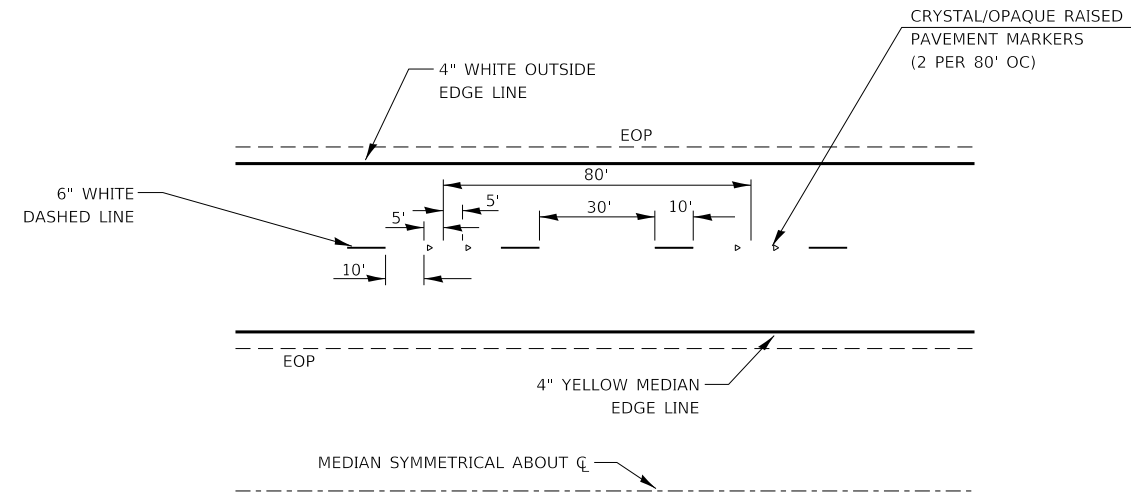
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

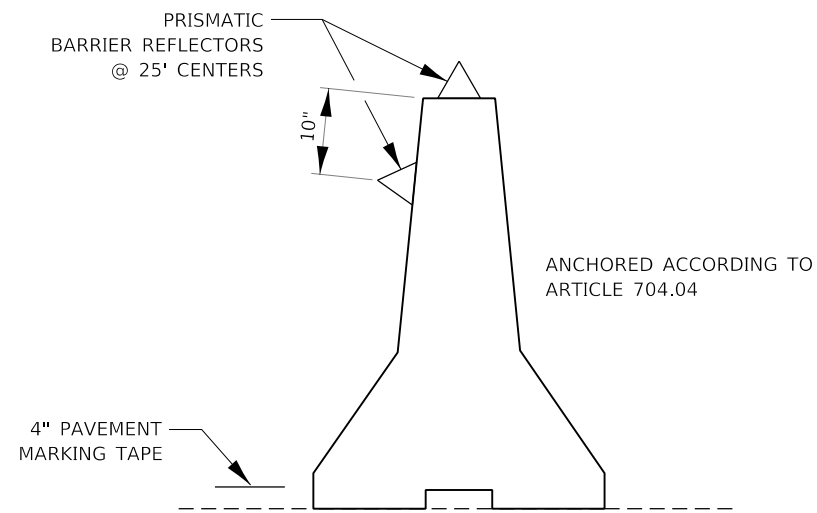
TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)

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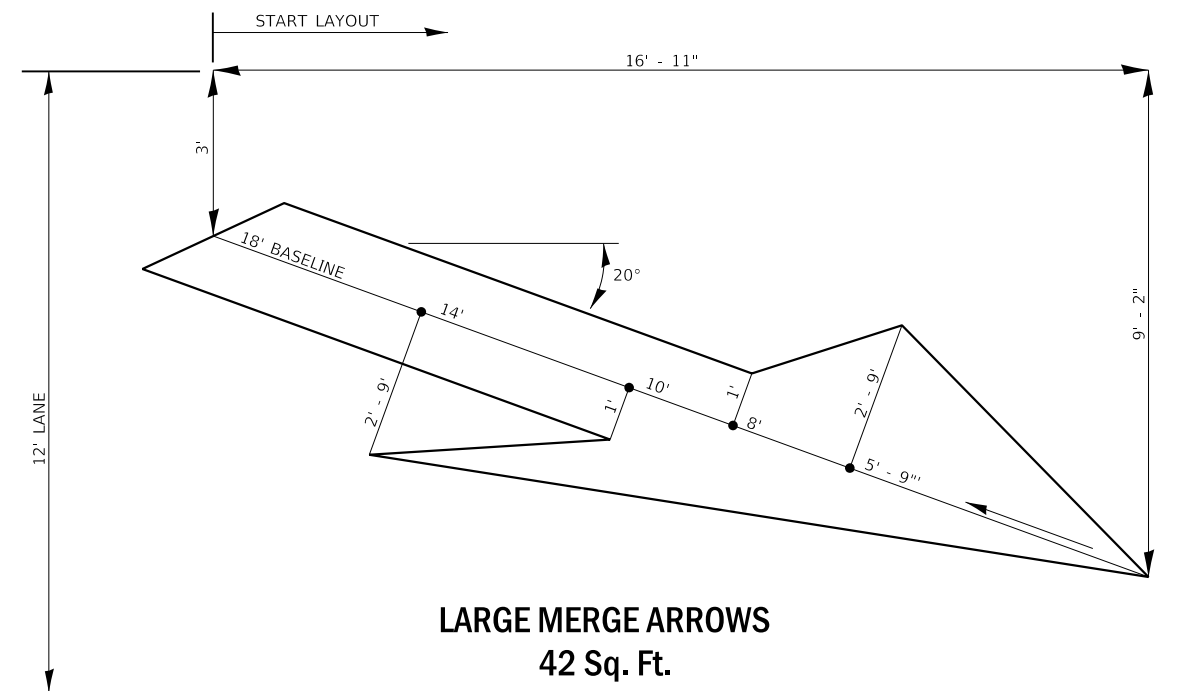
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	10
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



TYPICAL PAVEMENT MARKINGS



TEMPORARY CONCRETE BARRIER



**LARGE MERGE ARROWS
42 Sq. Ft.**

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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66H25	

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 THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

CONCRETE SEALER SHALL BE APPLIED TO THE DESIGNATED AREAS OF THE DECK AND APPROACH PAVEMENT SURFACES, TOP AND INSIDE FACES OF THE PARAPETS AND END POSTS.

EXISTING NAME PLATES SHALL BE PROTECTED AND CLEANED FROM ANY CONSTRUCTION RESIDUES.

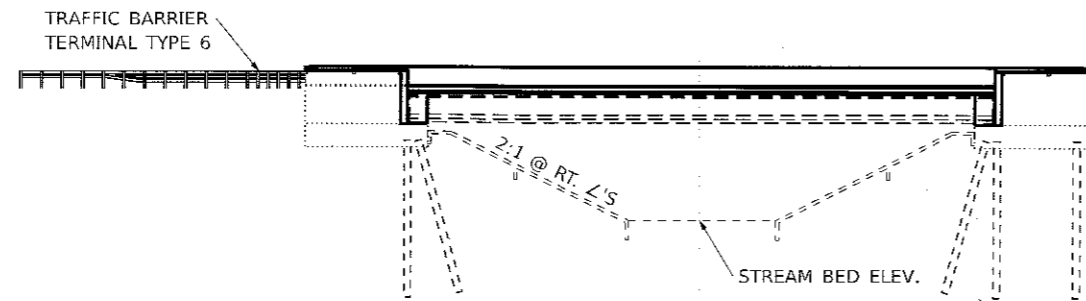
EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL AREAS SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL.

AREAS OF DECK SLAB REPAIRS ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS AND SIZES OF REPAIRS ON "AS-BUILT" PLANS.

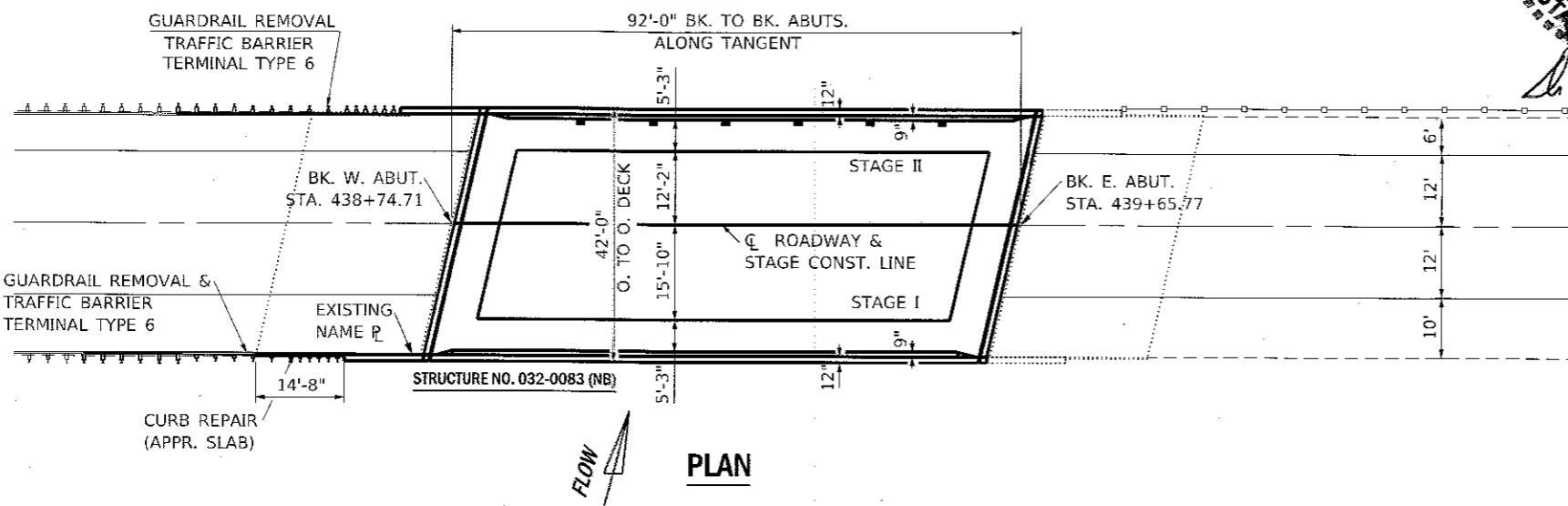
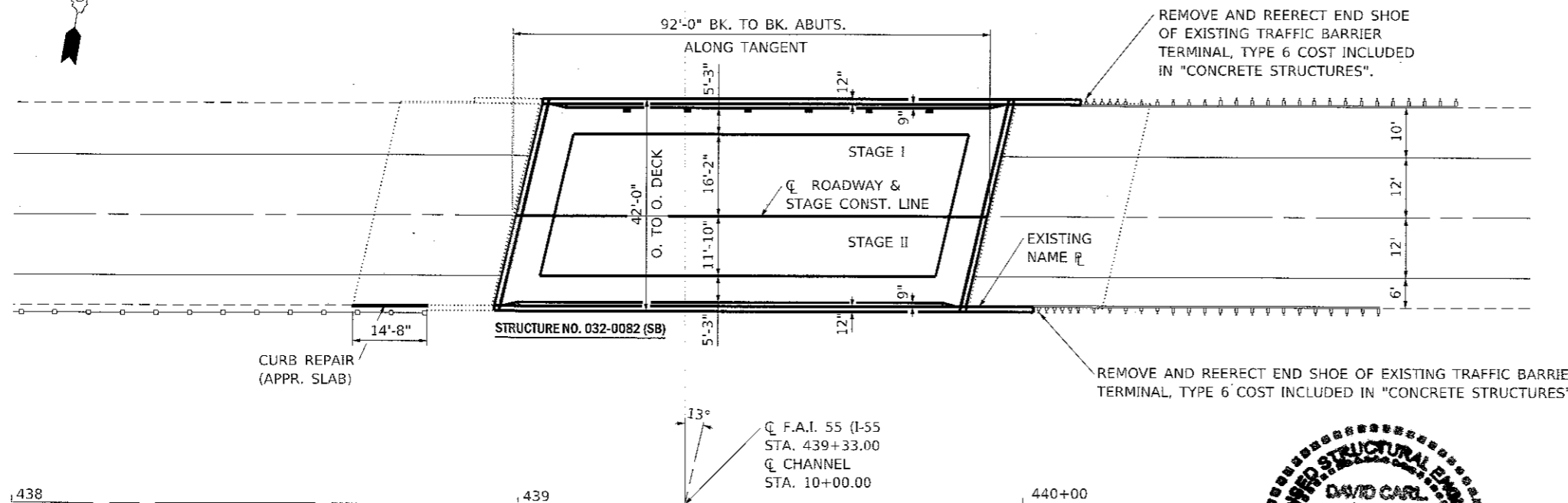
THE CONTRACTOR MUST ENSURE THAT NO DAMAGE IS DONE TO THE EXISTING REINFORCEMENT BARS EXTENDING FROM THE BEAM TOP FLANGE TO REMAIN AND BE REUSED. ANY DAMAGE TO THE BARS OR TOP FLANGE OF THE BEAM SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE THE SATISFACTION OF THE ENGINEER.

SEQUENCE OF OPERATIONS

1. REMOVE EXISTING HOT-MIX ASPHALT OVERLAY
2. SCARIFY EXISTING CONCRETE DECK 3/4" PAST THE CONCRETE REMOVAL LINES.
3. REMOVED EXISTING CONCRETE DECK/PARAPET OVER EXTERIOR BEAMS.
4. POUR NEW CONCRETE SLAB.
5. POUR NEW LATEX CONCRETE OVERLAY TO MATCH THE NEW CONCRETE SLAB.
6. GROOVE THE ENTIRE DECK SURFACE.



ELEVATION



**TOTAL BILL OF MATERIAL
TWO STRUCTURES**

ITEM	UNIT	032-0082	032-0083	TOTAL
HMA SURFACE REMOVAL	SQ YD	379	379	758
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	261	261	522
CONCRETE REMOVAL	CU YD	29.4	29.4	58.8
CONCRETE STRUCTURES	CU YD	1.4	1.4	2.8
CONCRETE SUPERSTRUCTURE	CU YD	31.2	31.2	62.4
REINFORCEMENT BARS EPOXY COATED	POUND	17940	17940	35880
MECHANICAL SPLICERS	EACH	784	784	1568
BAR SPLICERS	EACH	28	28	56
BAR SPLICERS (SPECIAL)	EACH	10	10	20
PREFORMED JOINT STRIP SEAL	FOOT	84	84	168
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10	17	27
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/4"	SQ YD	261	261	522
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	33.7	26.8	60.5
ACRYLIC COATING	SQ YD	175	221	396
BRIDGE DECK GROOVING	SQ YD	350	350	700
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	7	16.7	23.7
FIBER WRAP	SQ YD	740	465	1205
BRIDGE DECK CONCRETE SEALER	SQ FT	4165	4165	8330
FLOOR DRAINS	EACH	6	6	12
BRIDGE RAIL REMOVAL	FOOT	236	236	472



*David Carl Puzey 5/8/18
Expires 11/30/18*

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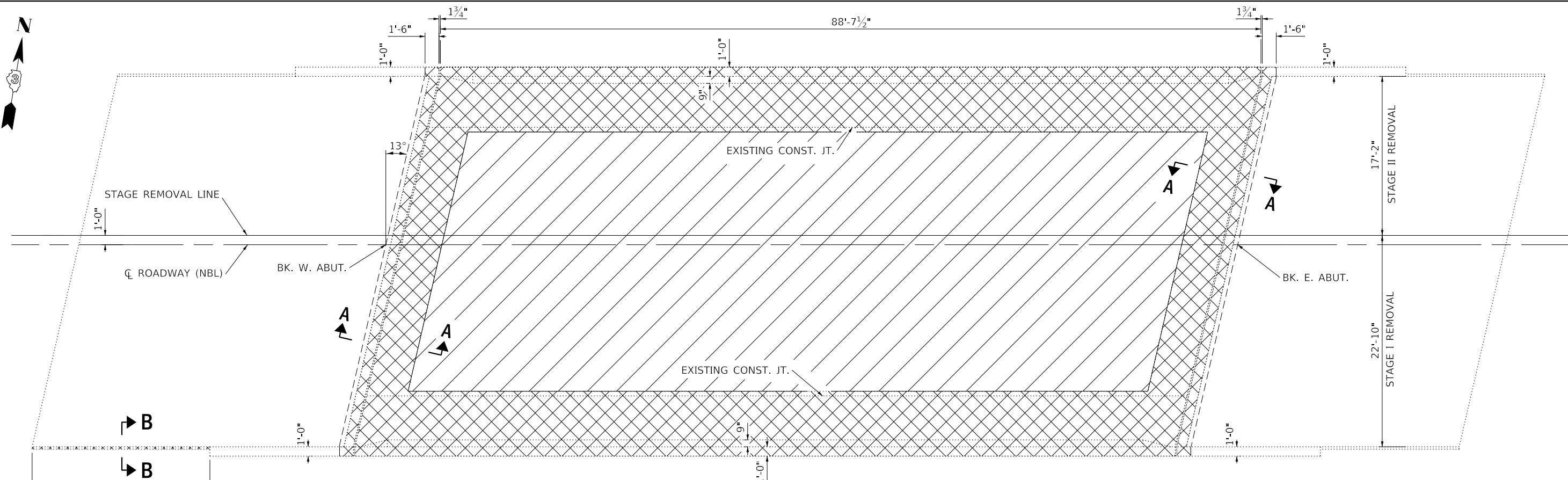
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	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
S.N. 032-0083 (NB) AND S.N. 032-0082 (SB)**

SCALE: SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.L. RTE. 55	SECTION (32-3B-1)BRR	COUNTY GRUNDY	TOTAL SHEETS 27	SHEET NO. 12
CONTRACT NO. 66H25				ILLINOIS FED. AID PROJECT

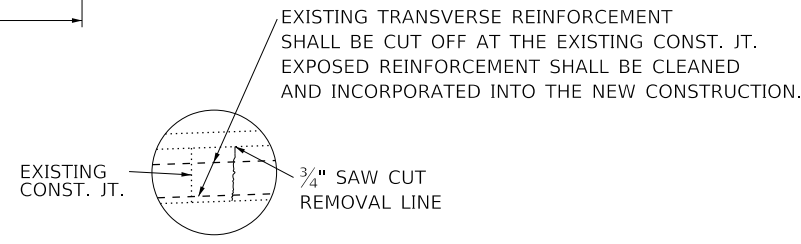


NOTE: SEE SHEET 13 OF 36 FOR SECTIONS A-A AND B-B

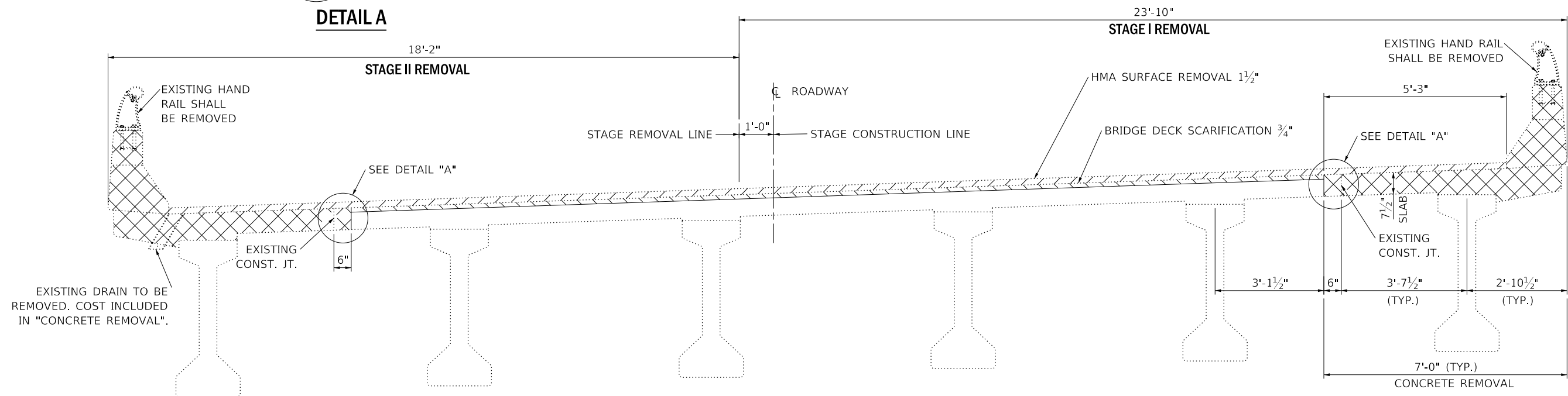
PLAN

LEGEND

- CONCRETE REMOVAL
- HMA SURFACE REMOVAL 1 1/2"
- BRIDGE DECK SCARIFICATION 3/4"



DETAIL A



CROSS SECTION MIDSPAN

LOOKING EAST

NOTE: DETAILS SHOWN ARE FOR STRUCTURE NO. 032-0083 (NB)
STRUCTURE NO. 032-0082 (SB) ARE SIMILR THROUGH 180° ROTATION

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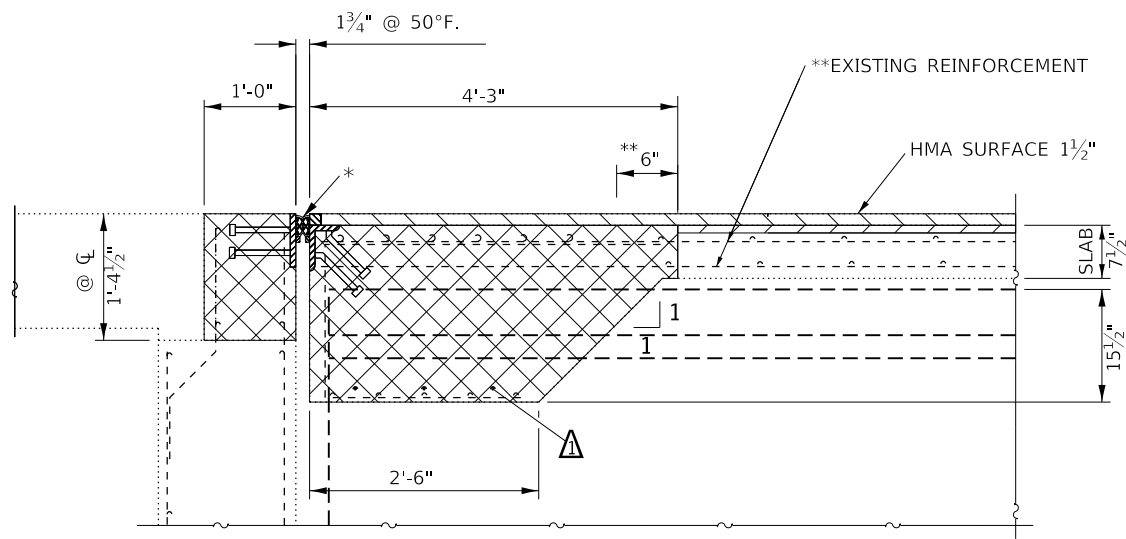
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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE REMOVAL DETAILS

SCALE: SHEET 2 OF 16 SHEETS STA. TO STA.

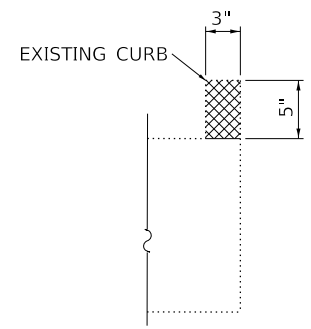
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	13
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



SECTION A-A

@ RT. L'S

EXISTING THREADED RODS SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. IF THE THREADED RODS ARE DAMAGED DUE TO THE CONTRACTORS REMOVAL OPERATIONS, THE THREADED RODS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.



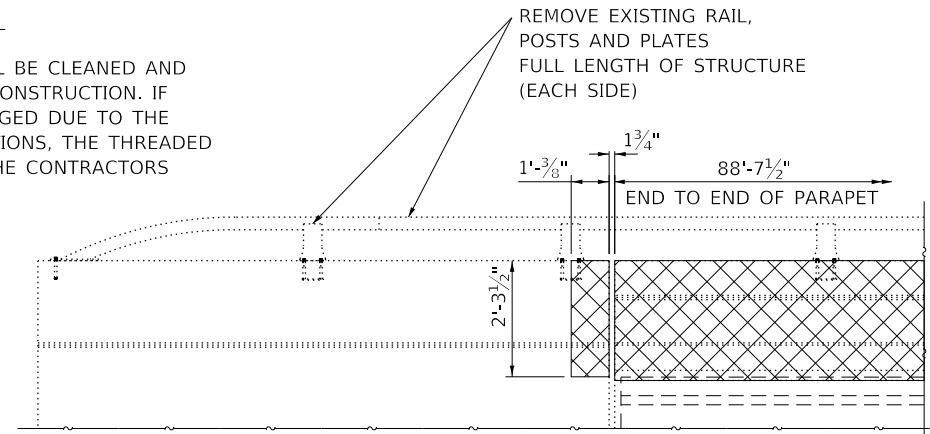
SECTION B-B

CURB REMOVAL & REPLACEMENT

NOTES

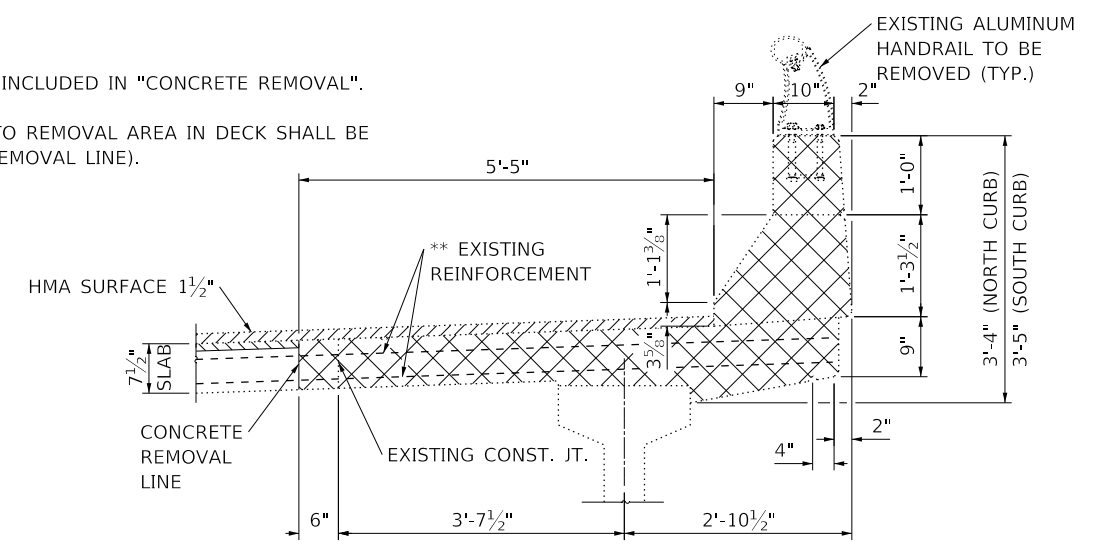
*EXPANSION JOINT MATERIALS SHALL BE REMOVED. COST INCLUDED IN "CONCRETE REMOVAL".

**EXISTING LONGITUDINAL REINFORCEMENT EXTENDING INTO REMOVAL AREA IN DECK SHALL BE CUT OFF A MINIMUM OF 6" FROM FACE OF CONCRETE (REMOVAL LINE).



PARAPET ELEVATION

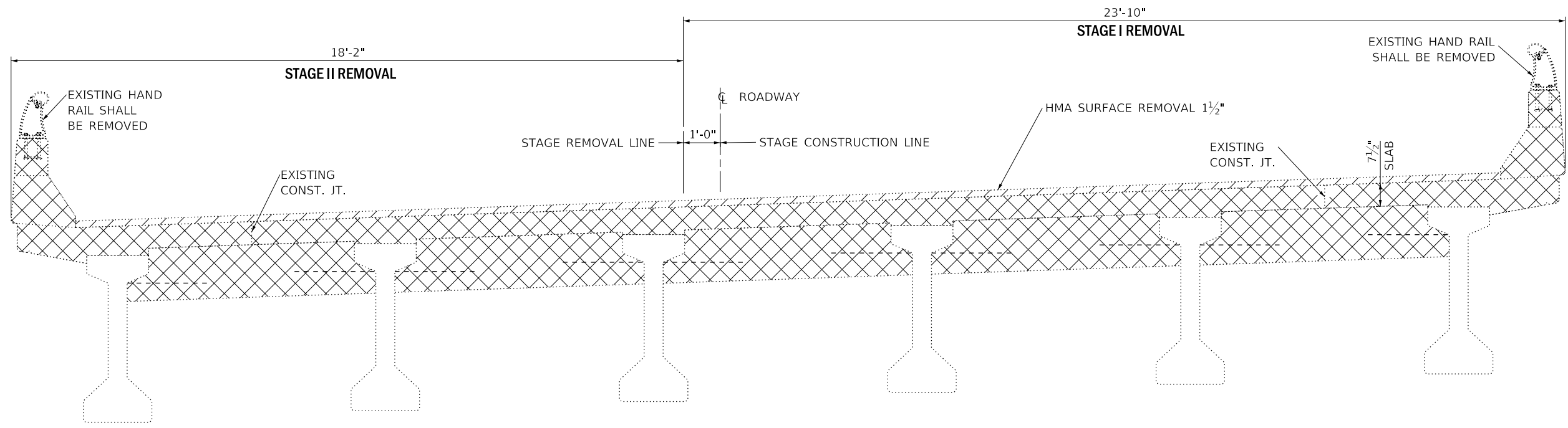
(TYPICAL)



SECTION THRU PARAPET

LEGEND

- CONCRETE REMOVAL
- HMA SURFACE REMOVAL 1 1/2"
- BRIDGE DECK SCARIFICATION 3/4"



CROSS SECTION AT EXPANSION JOINT

LOOKING EAST

NOTE: DETAILS SHOWN ARE FOR STRUCTURE NO. 032-0083 (NB)
STRUCTURE NO. 032-0082 (SB) ARE SIMILR THROUGH 180° ROTATION

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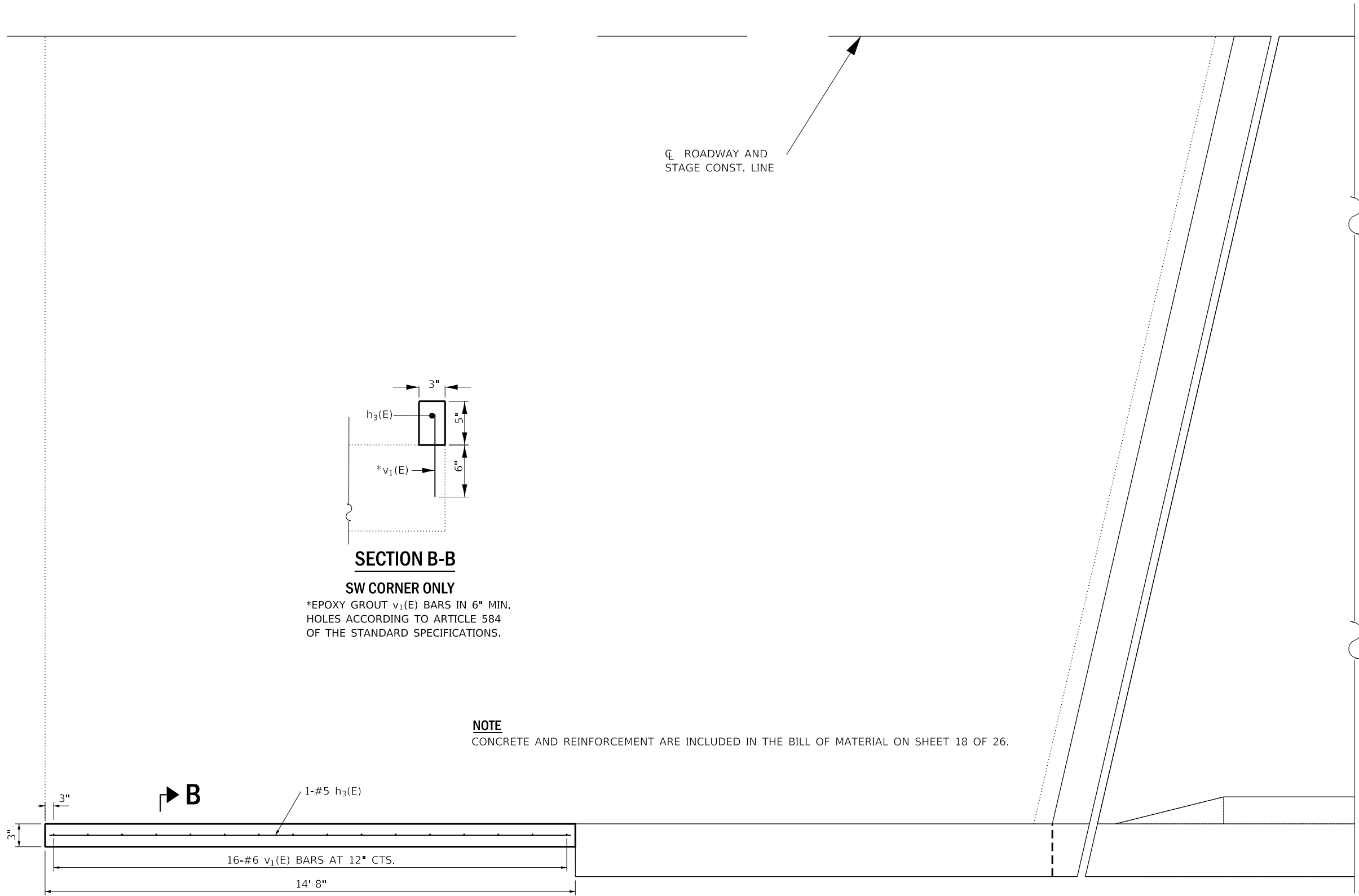
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE REMOVAL DETAILS

SCALE: SHEET 3 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	14
			CONTRACT NO. 66H25	
		ILLINOIS FED. AID PROJECT		



SECTION B-B

SW CORNER ONLY

*EPOXY GROUT $v_1(E)$ BARS IN 6" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.

NOTE

CONCRETE AND REINFORCEMENT ARE INCLUDED IN THE BILL OF MATERIAL ON SHEET 18 OF 26.

PLAN

STRUCTURE NO. 032-0083 (NB) AT WEST ABUT.

STRUCTURE NO. 032-0082 (SB) AT WEST ABUT.

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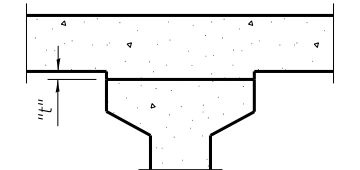
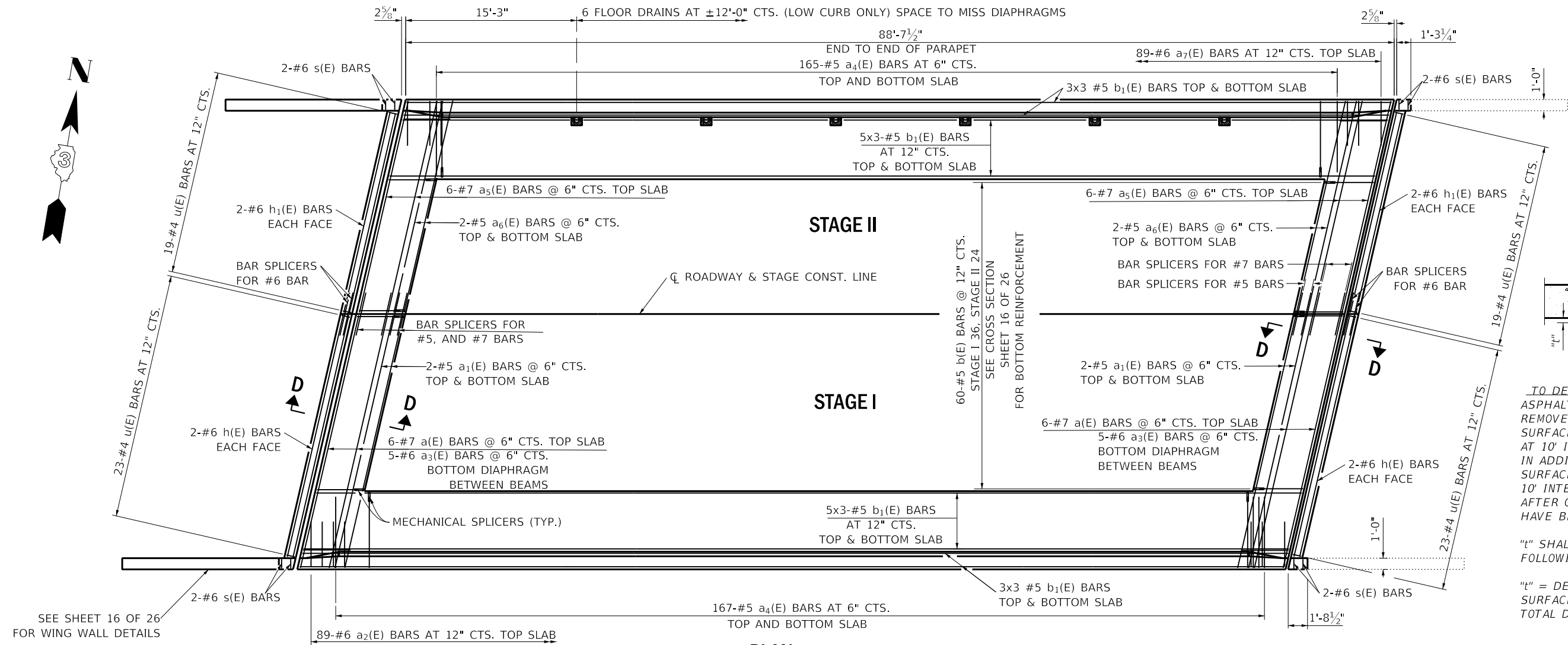
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PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED SUPERSTRUCTURE DETAILS
APPROACH PAVEMENT**

SCALE: SHEET 4 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	15
CONTRACT NO. 66H25				
ILLINOIS		FED. AID PROJECT		



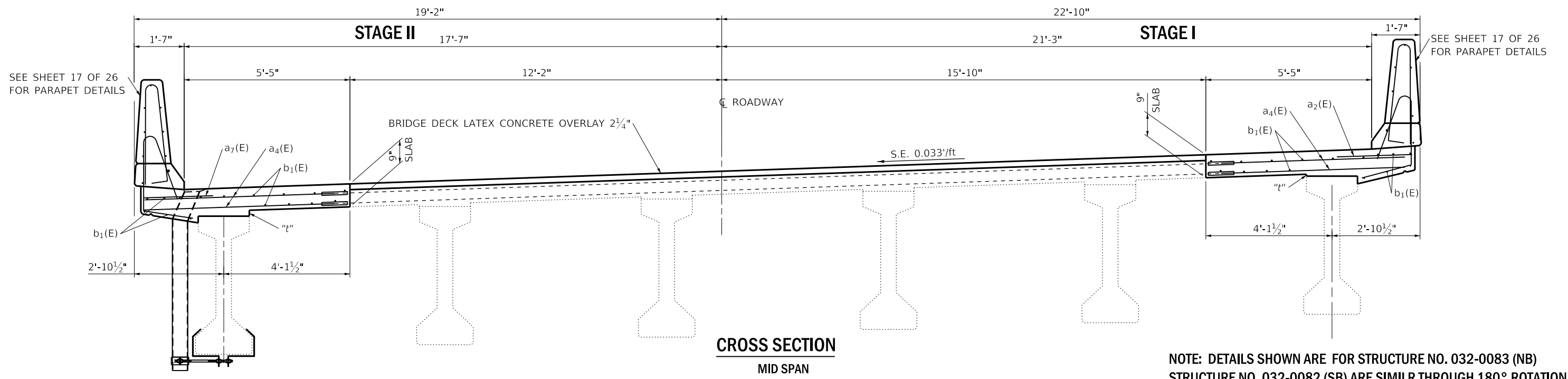
TO DETERMINE "t": AFTER ALL HOT MIX ASPHALT SURFACE MATERIAL HAS BEEN REMOVED, ELEVATIONS OF THE TOP SURFACE OF THE DECK SHALL BE TAKEN AT 10' INTERVALS ALONG THE C OF BEAM. IN ADDITION, ELEVATIONS OF THE TOP SURFACE OF BEAMS SHALL BE TAKEN AT 10' INTERVALS ALONG THE C OF BEAM AFTER CONCRETE REMOVAL OPERATIONS HAVE BEEN COMPLETED.

"t" SHALL BE DETERMINED FROM THE FOLLOWING FORMULA.

"t" = DECK SURFACE ELEV. MINUS BEAM SURFACE ELEV. MINUS TOTAL DECK THICKNESS.

FILLET HEIGHTS

PLAN



CROSS SECTION
MID SPAN
LOOKING EAST

NOTE: DETAILS SHOWN ARE FOR STRUCTURE NO. 032-0083 (NB)
STRUCTURE NO. 032-0082 (SB) ARE SIMILR THROUGH 180° ROTATION

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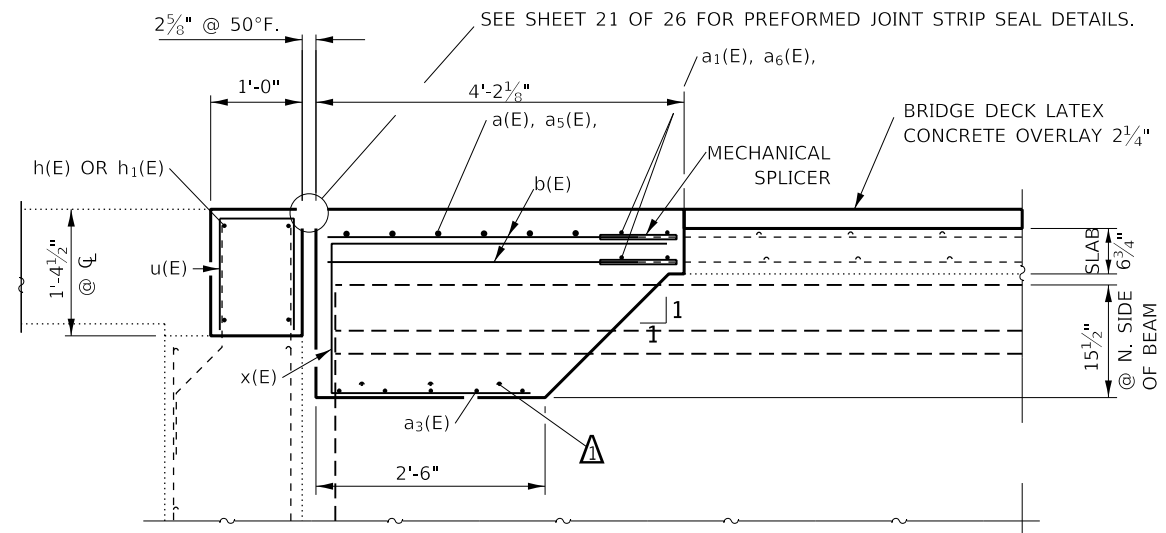
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	DATE - 2/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE RECONSTRUCTION DETAILS

SCALE: SHEET 5 OF 16 SHEETS STA. TO STA.

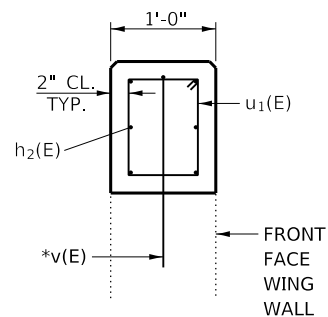
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	16
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



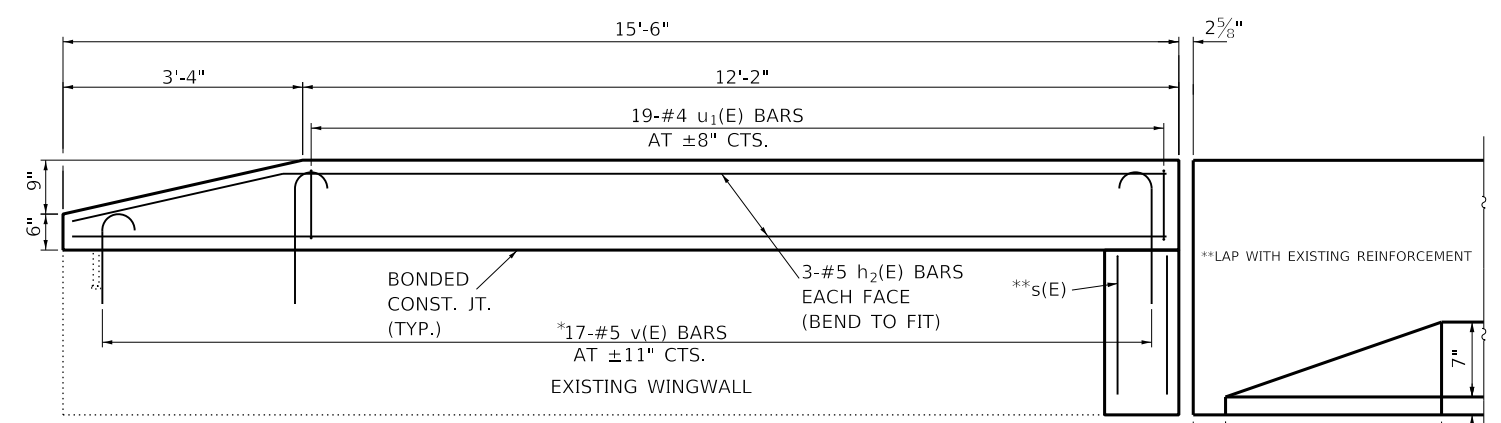
SECTION D-D

@ RT. L'S

△ EXISTING THREADED RODS SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. IF THE THREADED RODS ARE DAMAGED DUE TO THE CONTRACTORS REMOVAL OPERATIONS, THE THREADED RODS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

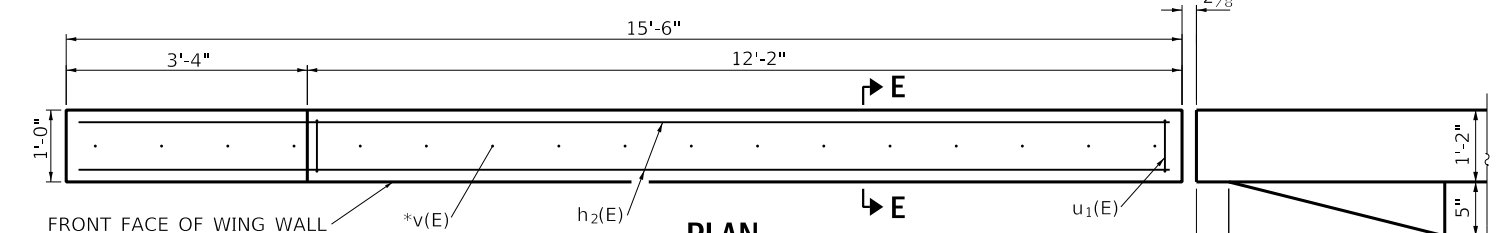


SECTION E-E



INSIDE ELEVATION

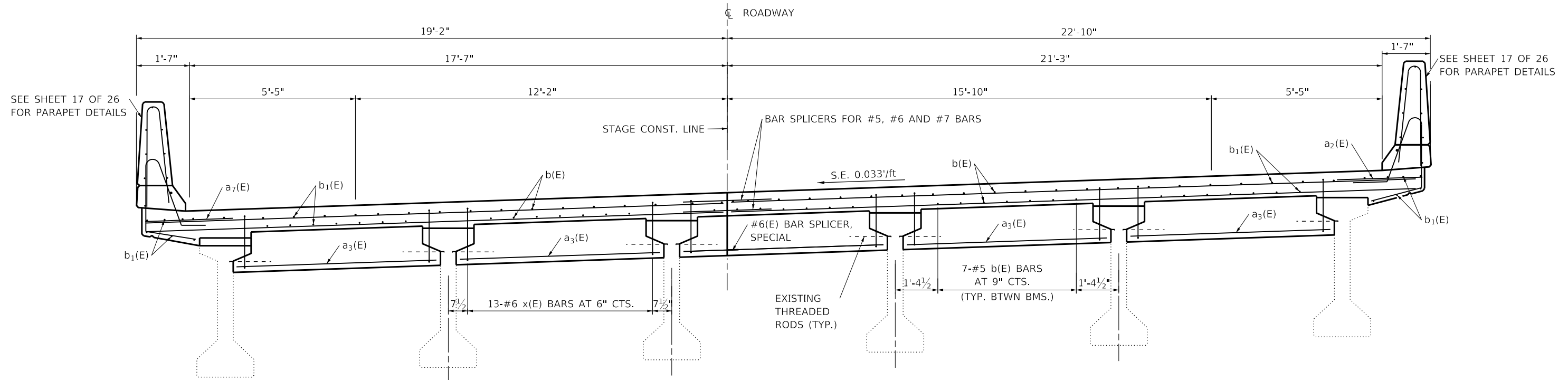
*EPOXY GROUT v(E) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS



PLAN

SN 032-0083 (NB) W. ABUT ONLY
SN 032-0082 (SB) E. ABUT. ONLY

WING WALL DETAILS



CROSS SECTION AT EXPANSION JOINT

LOOKING EAST

NOTE: DETAILS SHOWN ARE FOR STRUCTURE NO. 032-0083 (NB)
STRUCTURE NO. 032-0082 (SB) ARE SIMILR THROUGH 180° ROTATION

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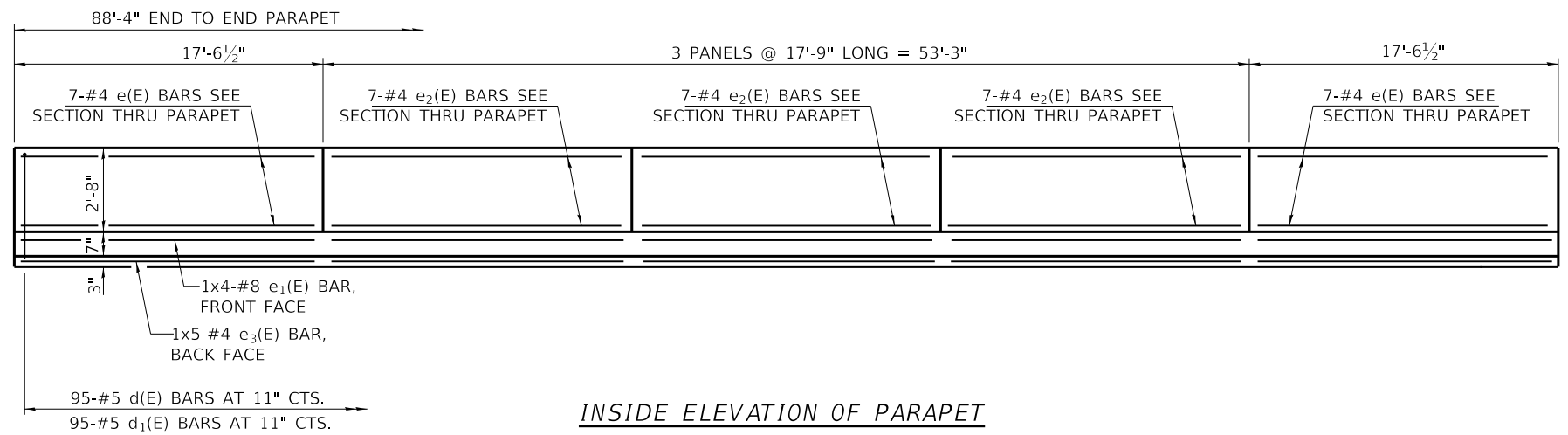
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

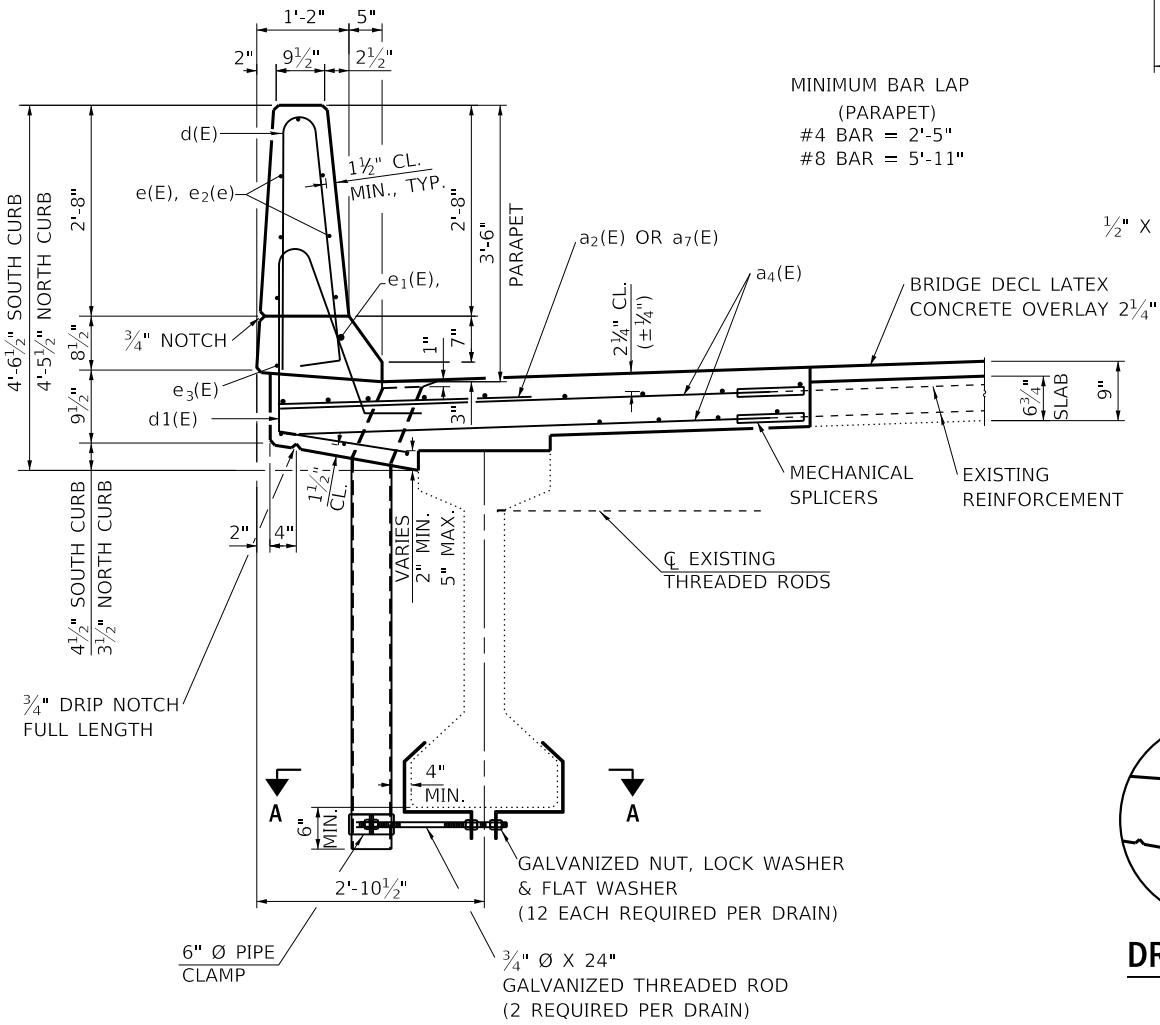
SUPERSTRUCTURE RECONSTRUCTION DETAILS

SCALE: SHEET 6 OF 16 SHEETS STA. TO STA.

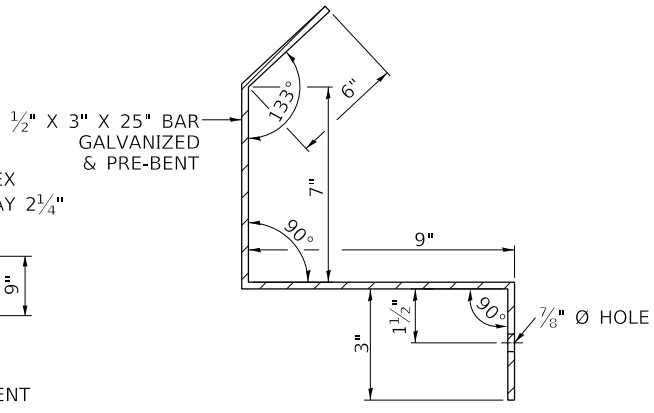
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CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



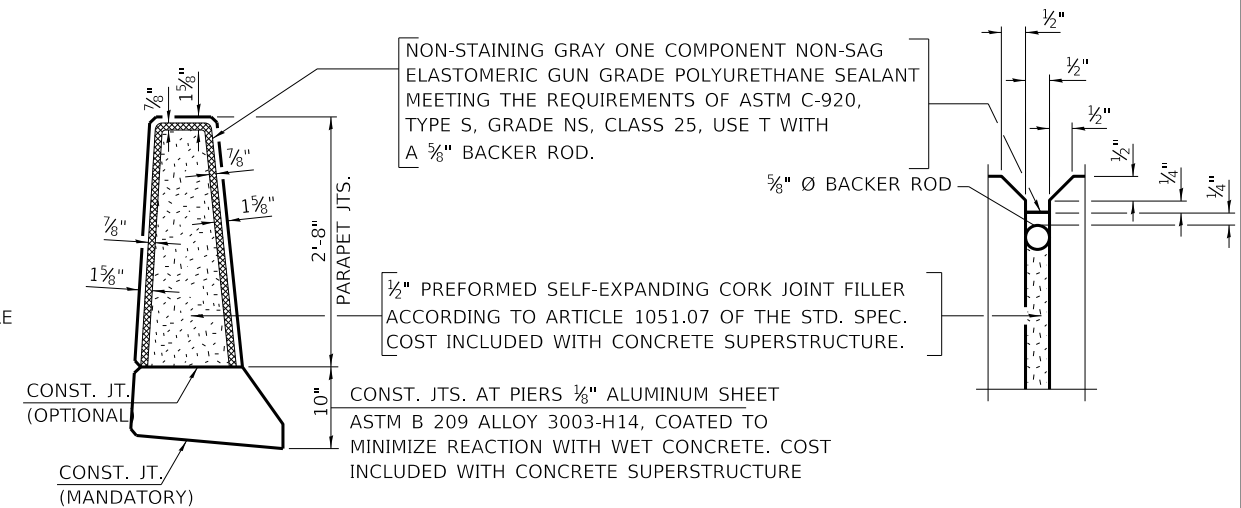
INSIDE ELEVATION OF PARAPET



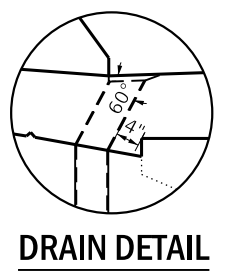
SECTION THRU PARAPET



BRACKET DETAIL
4 REQUIRED PER DRAIN

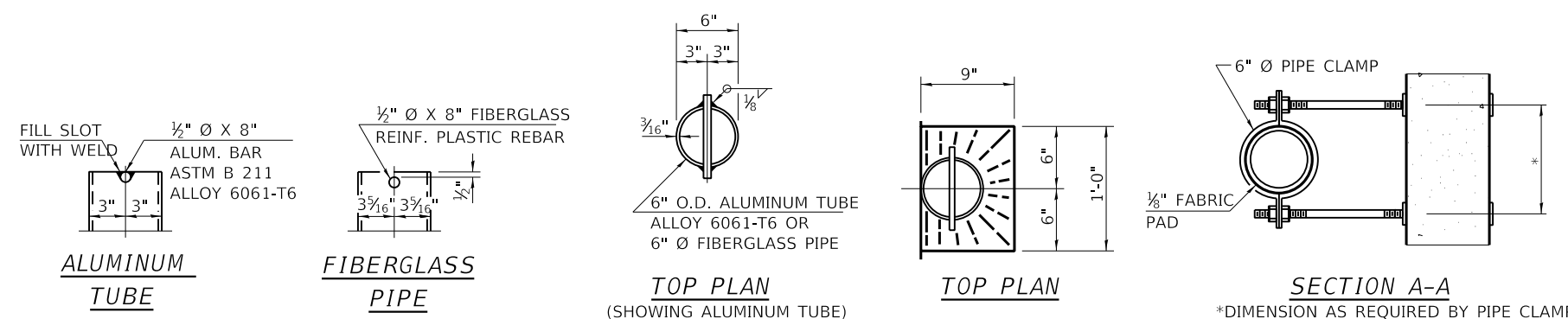


PARAPET JOINT DETAILS



DRAIN DETAIL

NOTES:
 SLIPFORMING SHALL NOT BE PERMITTED ON THIS PROJECT.
 FIBERGLASS PIPE SHALL CONFORM TO ASTM D2996, WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE STRESS OF 30,000 P.S.I. MINIMUM.
 THE EXTERIOR SURFACES OF THE FIBERGLASS FLOOR DRAINS SHALL BE PIGMENTED BY THE MANUFACTURER WITH A COLOR THAT MATCHES THE CONCRETE.
 THE TOP PORTION OF ALUMINUM FLOOR DRAINS SHALL BE COATED TO MINIMIZE REACTION WITH WET CONCRETE.
 THE CLAMPING DEVICE AND INSERTS SHALL BE GALVANIZED ACCORDING TO AASHTO M 232. COST OF CLAMPING DEVICE INCLUDED WITH FLOOR DRAINS.
 THE POLYURETHANE SEALANT SHALL BE ACCORDING TO ARTICLE 1050.04 OF THE STD. SPEC. AND THE COLOR SHALL BE GRAY.
 HEADED BARS SHALL CONFORM TO ASTM A970 WITH THREADED ATTACHMENT; CLASS HA; AND REINFORCEMENT BARS CONFORMING TO ASTM A706. COST INCLUDED WITH REINFORCEMENT BARS, EPOXY COATED.
 BARS INDICATED THUS 1 x 4 - #8 ETC. INDICATES 1 LINE OF BARS WITH 4 LENGTHS PER LINE.



**NOTE: DETAILS SHOWN ARE FOR STRUCTURE NO. 032-0083 (NB)
 STRUCTURE NO. 032-0082 (SB) ARE SIMILR THROUGH 180° ROTATION**

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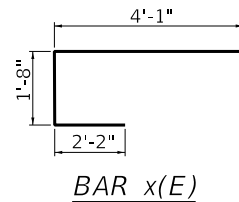
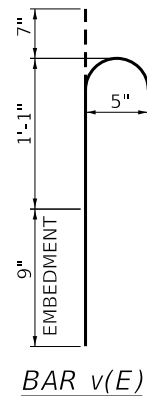
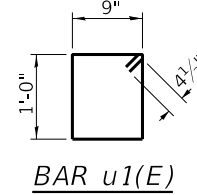
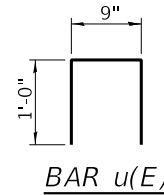
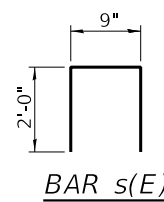
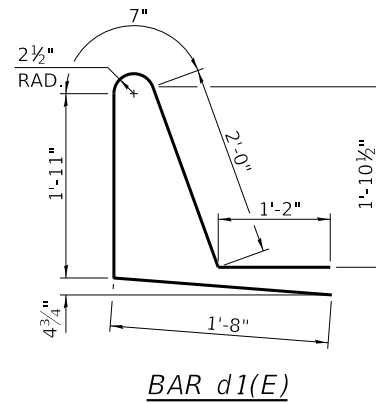
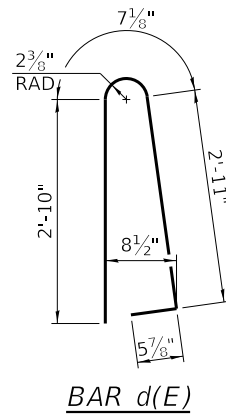
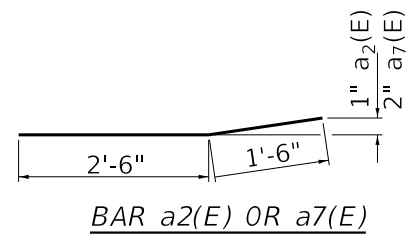
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE RECONSTRUCTION DETAILS
 SCALE: SHEET 7 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	18
			CONTRACT NO. 66H25	
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIALS
FOR STRUCTURE NO. 032-0083 (NB)**

**BILL OF MATERIALS
FOR STRUCTURE NO. 032-0082 (SB)**



BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	12	#7	23'-2"	—————
a1(E)	8	#5	23'-2"	—————
a2(E)	89	#6	4'-0"	—————
a3(E)	40	#6	6'-8"	—————
a4(E)	664	#5	6'-4"	—————
a5(E)	12	#7	19'-5"	—————
a6(E)	8	#5	19'-5"	—————
a7(E)	89	#6	4'-0"	—————
b(E)	120	#5	3'-9"	—————
b1(E)	96	#5	31'-10"	—————
d(E)	190	#5	6'-10"	—————
d1(E)	190	#5	7'-3"	—————
e(E)	28	#4	17'-3"	—————
e1(E)	8	#8	26'-6"	—————
e2(E)	48	#4	17'-6"	—————
e3(E)	10	#4	19'-7"	—————
h(E)	8	#6	22'-2"	—————
h1(E)	8	#6	18'-4"	—————
h2(E)	12	#5	15'-3"	—————
h3(E)	1	#5	14'-5"	—————
s(E)	8	#6	4'-9"	—————
u(E)	84	#4	2'-9"	—————
u1(E)	38	#4	4'-3"	—————
v(E)	34	#5	2'-5"	—————
v1(E)	16	#6	0'-9"	—————
x(E)	130	#6	8'-0"	—————

HOT-MIX ASPHALT SURFACE REMOVAL	SQ YD	379
BRIDGE DECK SCARIFICATION	SQ YD	261
CONCRETE REMOVAL	CU YD	29.4
CONCRETE STRUCTURES	CU YD	1.4
CONCRETE SUPERSTRUCTURE	CU YD	31.2
REINFORCEMENT BARS EPOXY COATED	POUND	17940
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/4"	SQ YD	261
BRIDGE DECK GROOVING	SQ YD	350
CONCRETE SEALER	SQ FT	4165
BRIDGE RAIL REMOVAL	FOOT	236
FLOOR DRAINS	EACH	6

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	12	#7	23'-2"	—————
a1(E)	8	#5	23'-2"	—————
a2(E)	89	#6	4'-0"	—————
a3(E)	40	#6	6'-8"	—————
a4(E)	664	#5	6'-4"	—————
a5(E)	12	#7	19'-5"	—————
a6(E)	8	#5	19'-5"	—————
a7(E)	89	#6	4'-0"	—————
b(E)	130	#5	3'-9"	—————
b1(E)	96	#5	31'-10"	—————
d(E)	190	#5	6'-10"	—————
d1(E)	190	#5	7'-3"	—————
e(E)	28	#4	17'-3"	—————
e1(E)	8	#8	26'-6"	—————
e2(E)	48	#4	17'-6"	—————
e3(E)	10	#4	19'-7"	—————
h(E)	8	#6	22'-2"	—————
h1(E)	8	#6	18'-4"	—————
h2(E)	12	#5	15'-3"	—————
h3(E)	1	#5	14'-5"	—————
s(E)	8	#6	4'-9"	—————
u(E)	84	#4	2'-9"	—————
u1(E)	38	#4	4'-3"	—————
v(E)	34	#5	2'-5"	—————
v1(E)	16	#6	0'-9"	—————
x(E)	130	#6	8'-0"	—————

HMA SURFACE REMOVAL	SQ YD	379
BRIDGE DECK SCARIFICATION	SQ YD	261
CONCRETE REMOVAL	CU YD	29.4
CONCRETE STRUCTURES	CU YD	1.4
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BRIDGE RAIL REMOVAL	FOOT	236
FLOOR DRAINS	EACH	6

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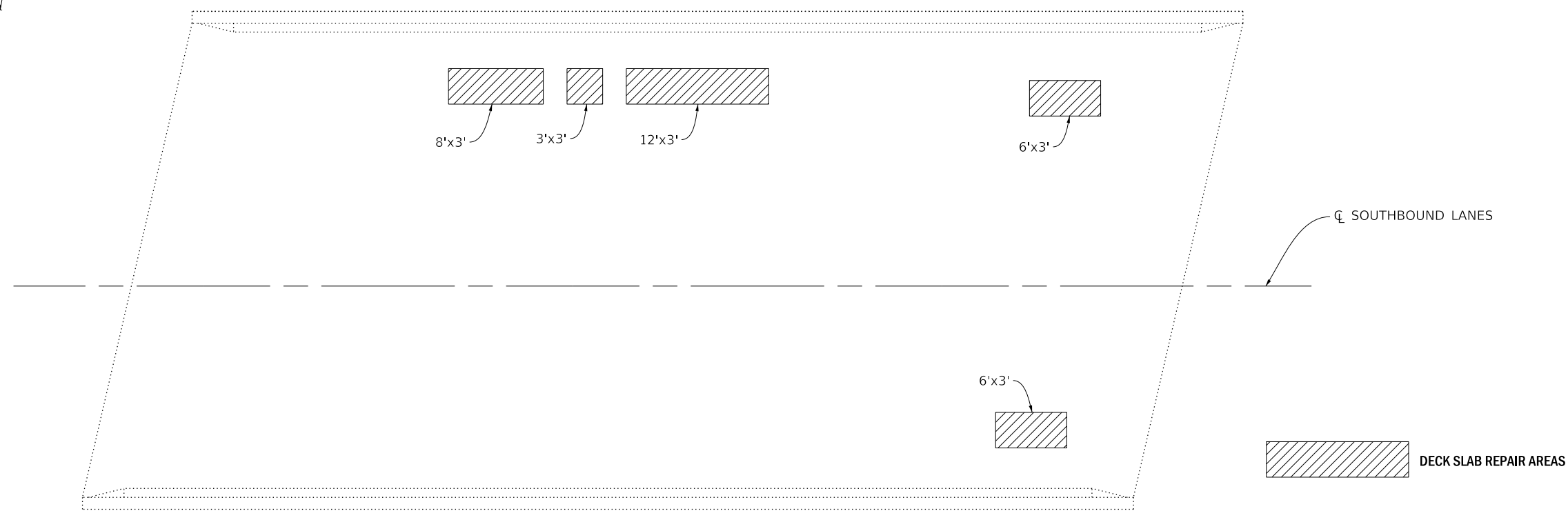
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

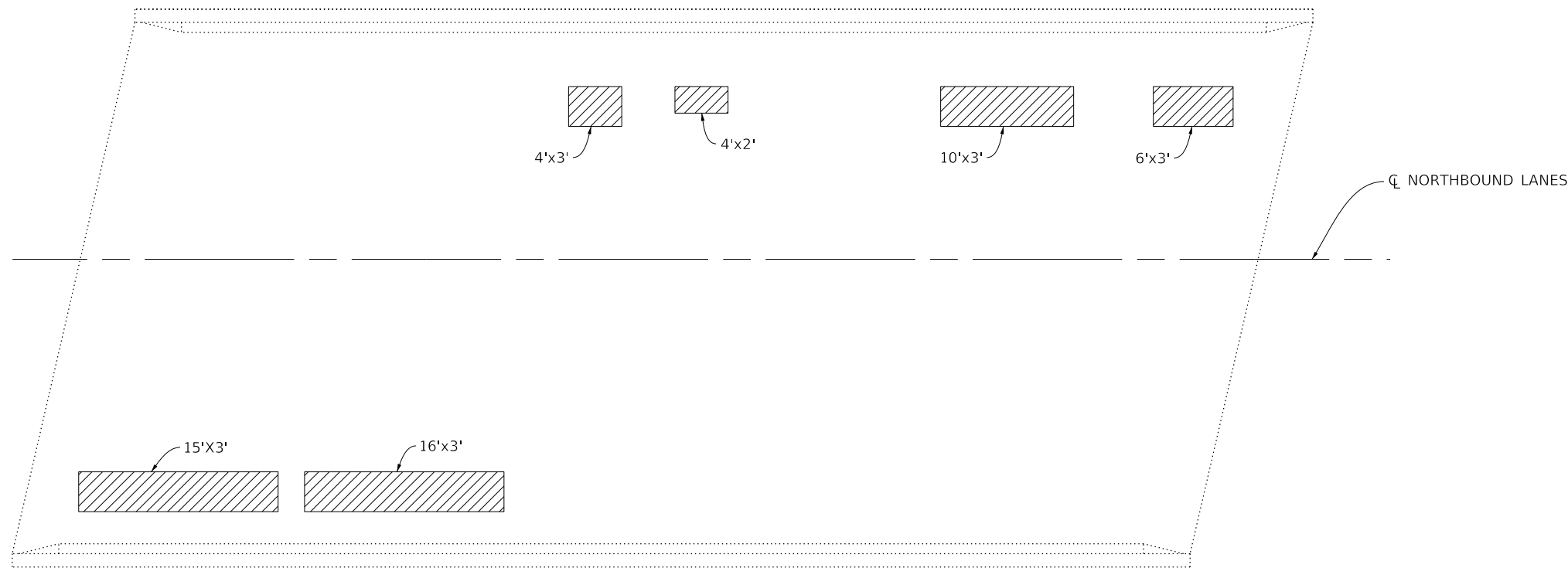
PROPOSED SUPERSTRUCTURE DETAILS

SCALE: SHEET 8 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	19
				CONTRACT NO. 66H25
		ILLINOIS	FED. AID PROJECT	



DECK PLAN
S.N. 032-0082 (SB)



DECK PLAN
S.N. 032-0083 (NB)

NOTE:
DECK SLAB REPAIR (FULL DEPTH) QUANTITIES ARE ESTIMATED.
THE ENGINEER SHALL SOUND THE ENTIRE DECK AREA FOR ACTUAL
LOCATIONS AND REPAIR AREAS.

BILL OF MATERIAL
STRUCTURE NO. 032-0082 (SB)

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10

BILL OF MATERIAL
STRUCTURE NO. 032-0083 (NB)

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	17

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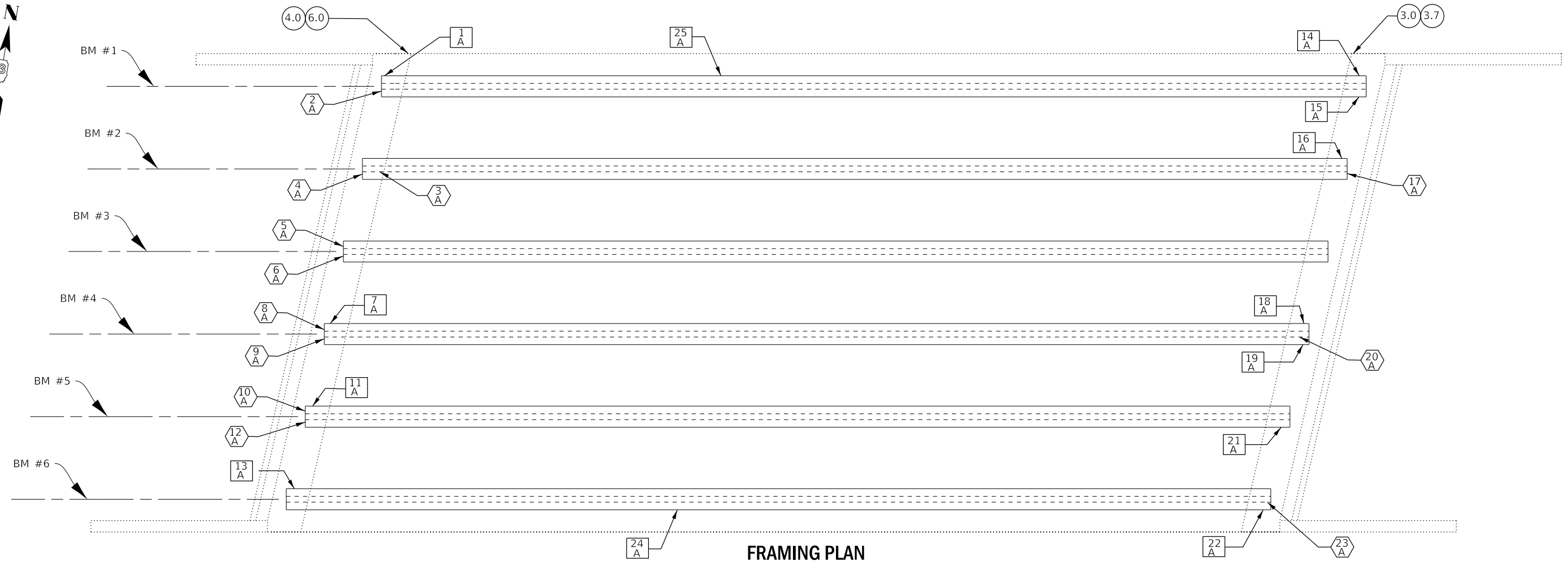
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

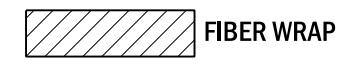
DECK SLAB REPAIR

SCALE: SHEET 9 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	20
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN
S.N. 032-0083 (NB)



LEGEND

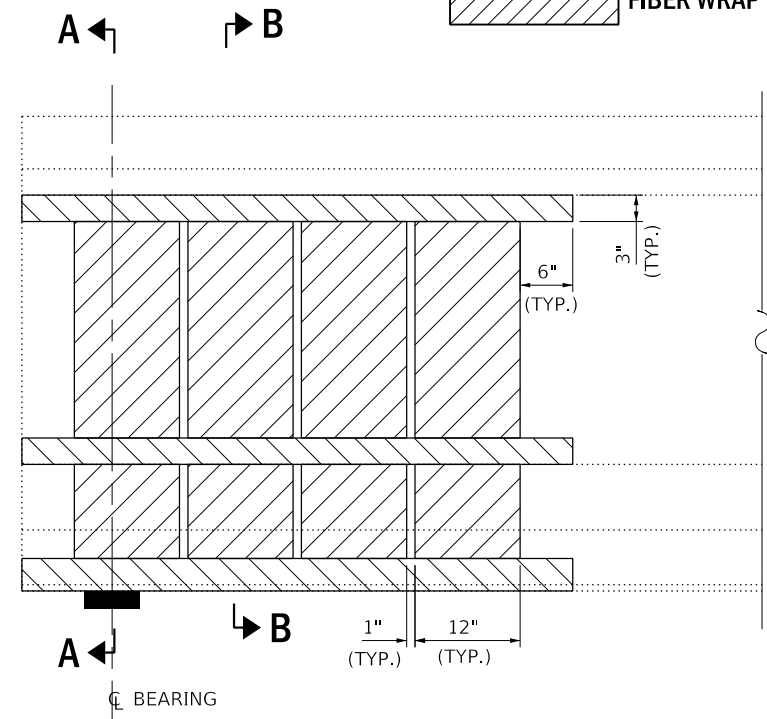
- 7.3 SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5")" REPAIRS ON ABUTMENTS
- 1 A SQUARE FOOT OF "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS ON BEAM FLANGE (TOP)"
- 1 A SQUARE FOOT OF "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS ON BEAM FLANGE (BOTTOM)"
- 1 A SQUARE FOOT OF "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS ON BEAM WEB"

NOTES
NOTE 1. PPC BEAM REPAIRS AND FIBER WRAP WORK SHALL BE COMPLETED PRIOR TO PLACING NEW CONCRETE AT THE EXPANSION JOINTS.

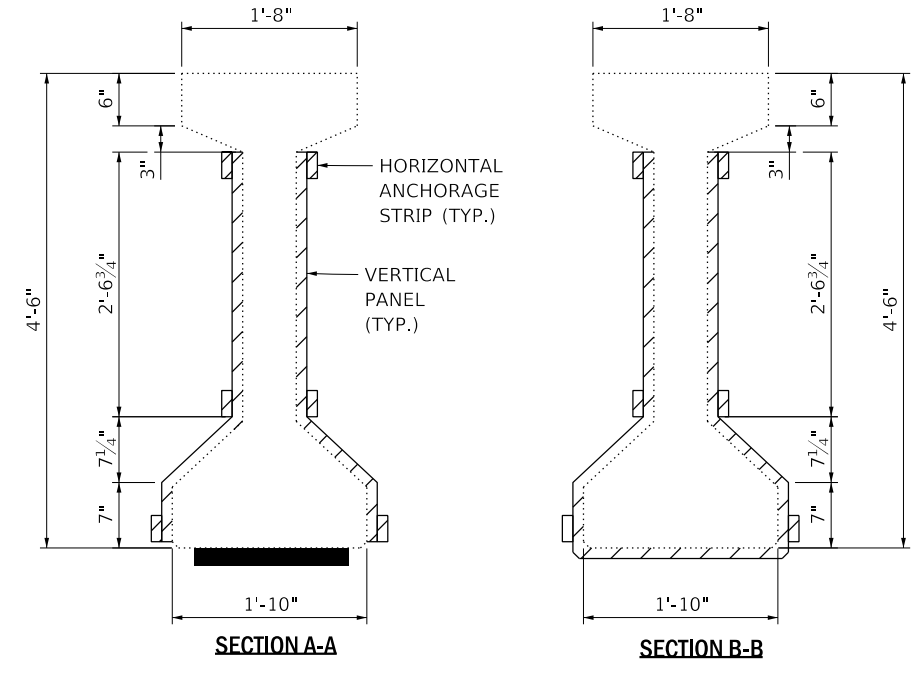
BILL OF MATERIAL
STRUCTURE NO. 032-0083 (NB)

ITEM	UNIT	TOTAL
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	*
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	16.7
FIBER WRAP	SQ FT	*
ACRYLIC COATING	SQ YD	*

* SEE SHEET NO. 8 FOR QUANTITIES.



BEAM ELEVATION
(TYPICAL)



BEAM CROSS SECTION
(TYPICAL)

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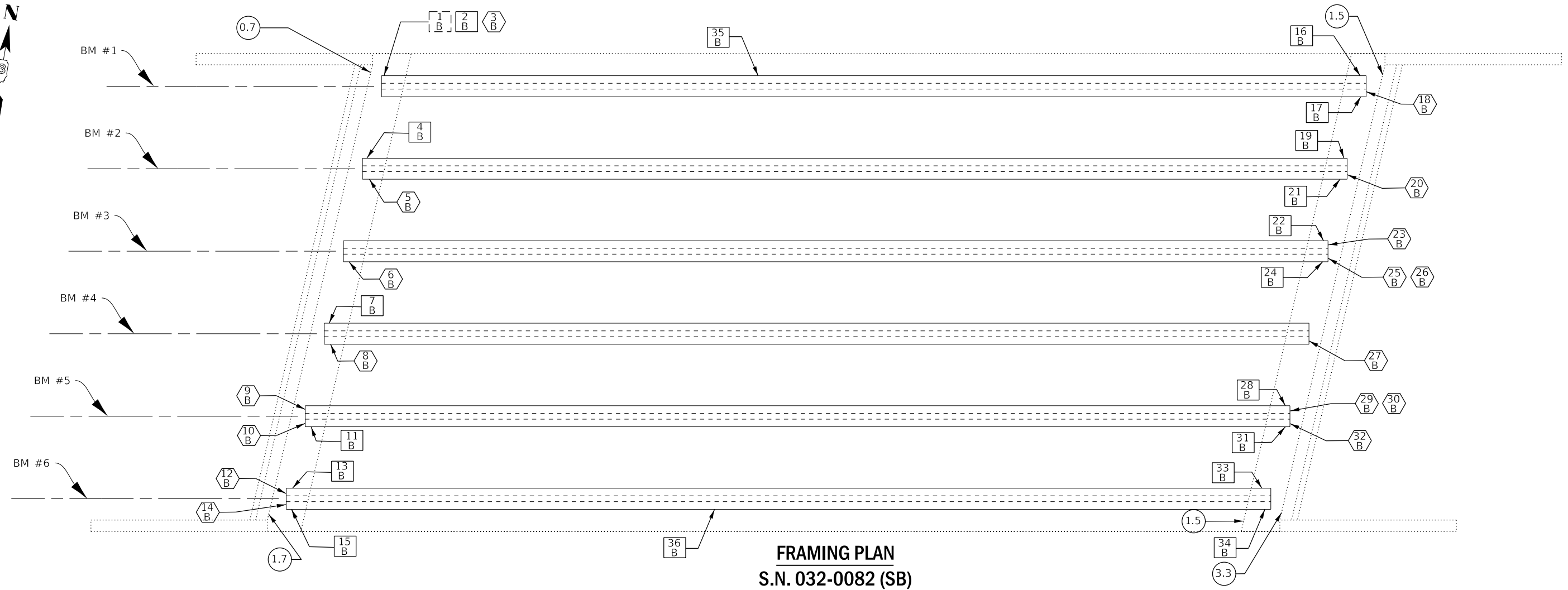
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
FOR STRUCTURE NO. 032-0083 (NB)

SCALE: SHEET 10 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	21
			CONTRACT NO. 66H25	
ILLINOIS FED. AID PROJECT				



FRAMING PLAN
S.N. 032-0082 (SB)

LEGEND

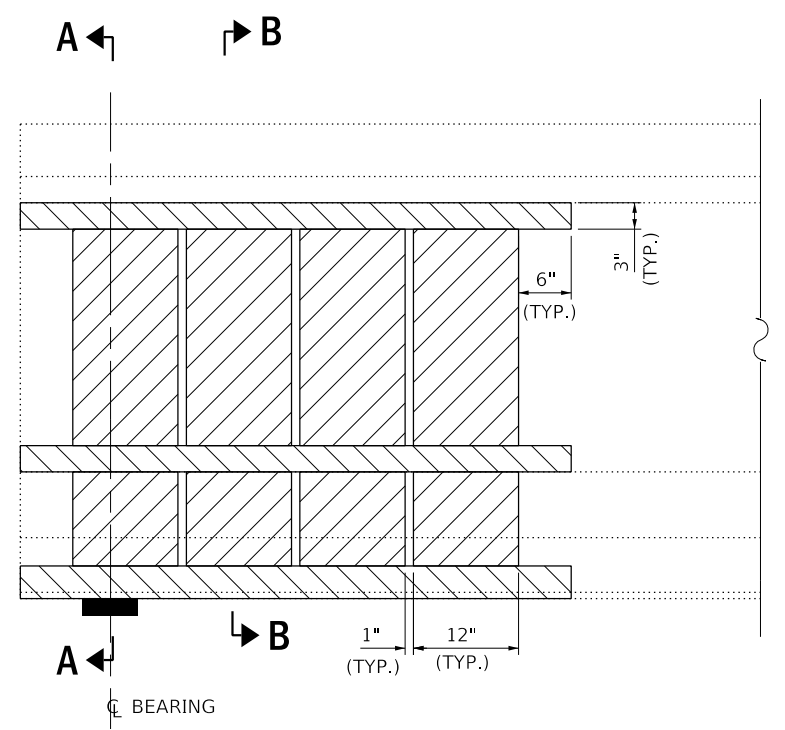
- (7.3) SQUARE FOOT OF "STRUCTURAL REPAIR OF CONCRETE, (DEPTH ≤ 5")" REPAIRS ON ABUTMENTS
- [1 B] SQUARE FOOT OF "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS ON BEAM FLANGE (TOP)"
- [1 B] SQUARE FOOT OF "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS ON BEAM FLANGE (BOTTOM)"
- [1 B] SQUARE FOOT OF "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS ON BEAM WEB"

NOTES
NOTE 1. PPC BEAM REPAIRS AND FIBER WRAP WORK SHALL BE COMPLETED PRIOR TO PLACING NEW CONCRETE AT THE EXPANSION JOINTS.

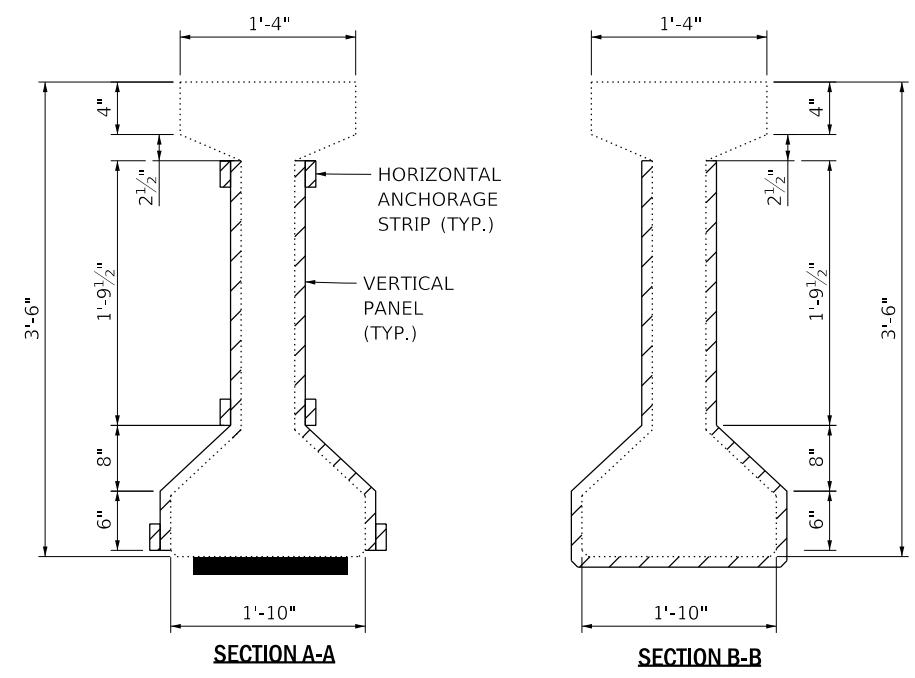
BILL OF MATERIAL
STRUCTURE NO. 032-0082 (SB)

ITEM	UNIT	TOTAL
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	*
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	7
FIBER WRAP	SQ FT	*
ACRYLIC COATING	SQ YD	*

* SEE SHEET NO. 8 FOR QUANTITIES.



BEAM ELEVATION
(TYPICAL)



BEAM CROSS SECTION
(TYPICAL)

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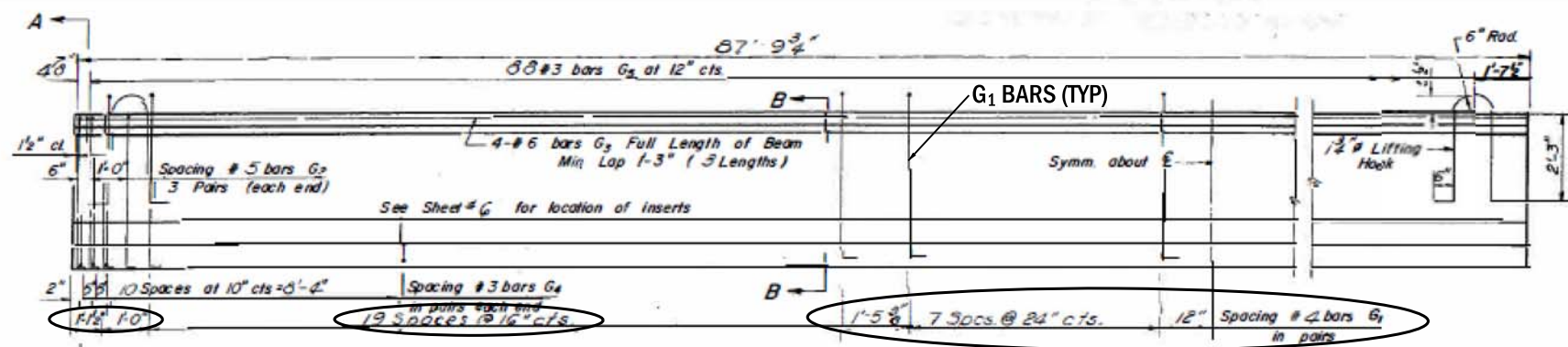
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

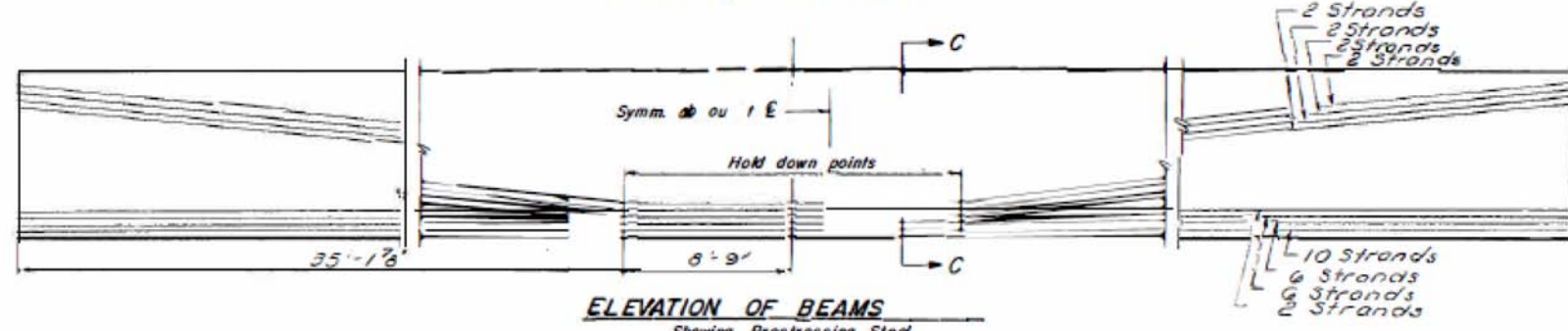
FRAMING PLAN
FOR STRUCTURE NO. 032-0082 (SB)

SCALE: SHEET 11 OF 16 SHEETS STA. TO STA.

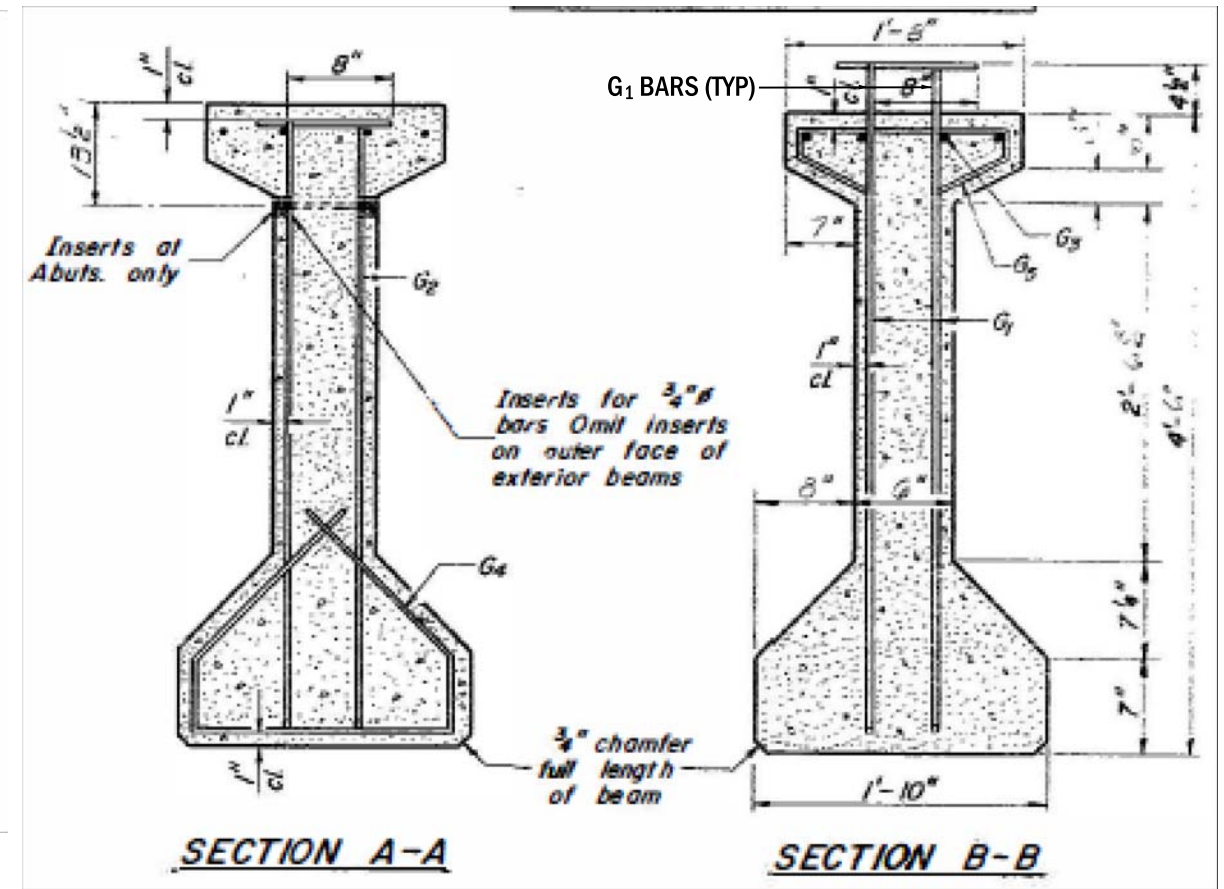
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55	(32-3B-1)BRR	GRUNDY	27	22
			CONTRACT NO. 66H25	
		ILLINOIS	FED. AID PROJECT	



ELEVATION OF BEAMS
Showing Reinforcement & Dimensions

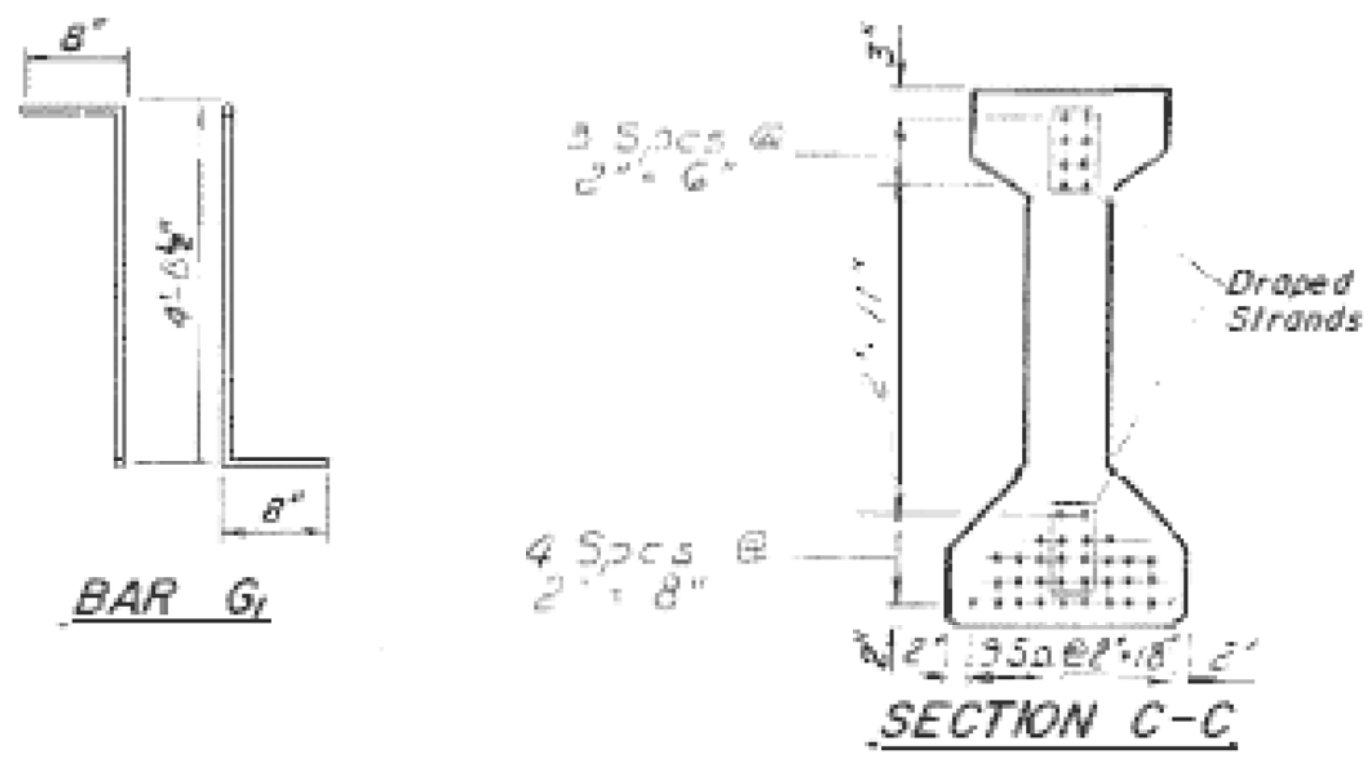


ELEVATION OF BEAMS
Showing Prestressing Steel



SECTION A-A

SECTION B-B



SECTION C-C

NOTE:
THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE IS DONE TO EXISTING REINFORCEMENT EXTENDING FROM BEAM TOP FLANGE THAT IS TO REMAIN IN PLACE AND BE REUSED. ANY DAMAGE DONE TO THE EXISTING REINFORCEMENT BARS OR TOP FLANGE OF BEAM SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

FOR INFORMATION ONLY

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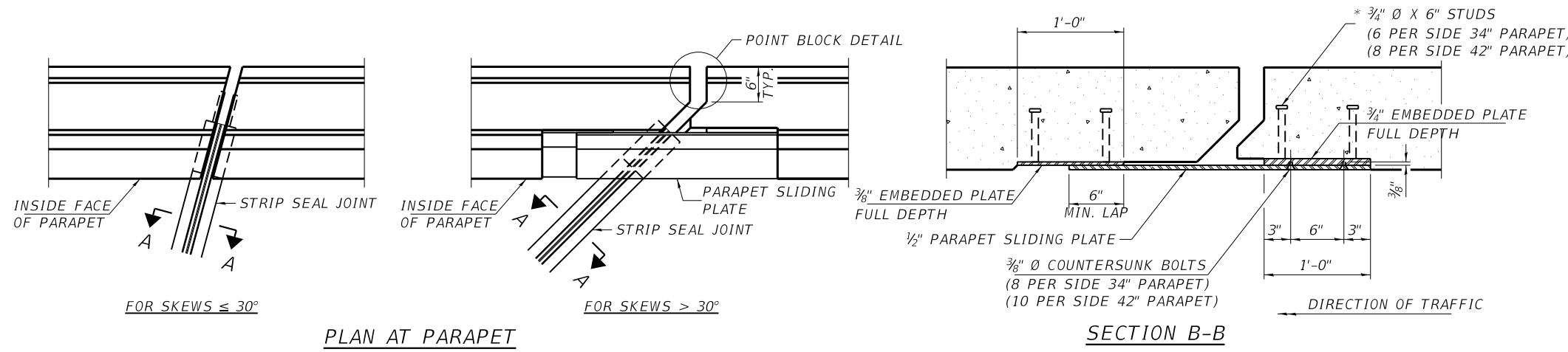
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

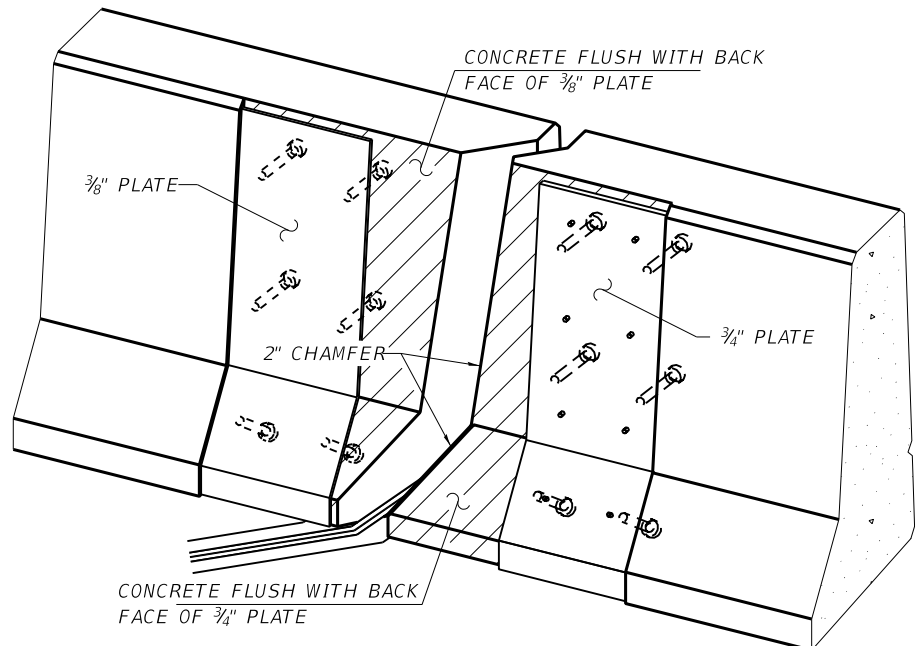
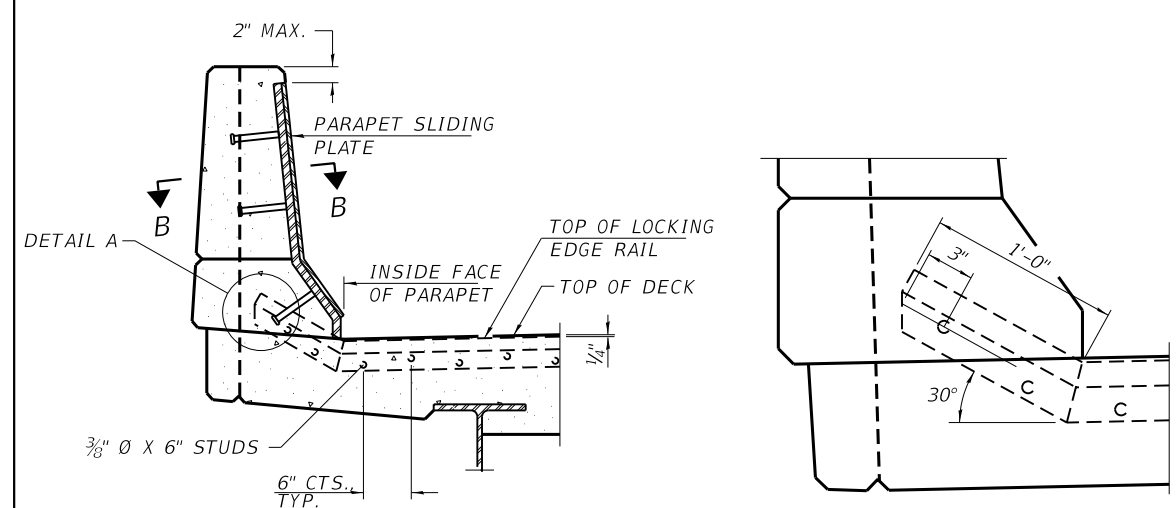
EXISTING PRECAST PRESTRESSED CONCRETE I-BEAM

SCALE: SHEET 12 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	23
CONTRACT NO. 66H25				
ILLINOIS FED. AID PROJECT				



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.)

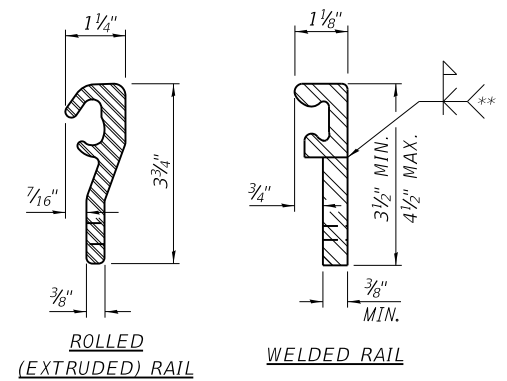
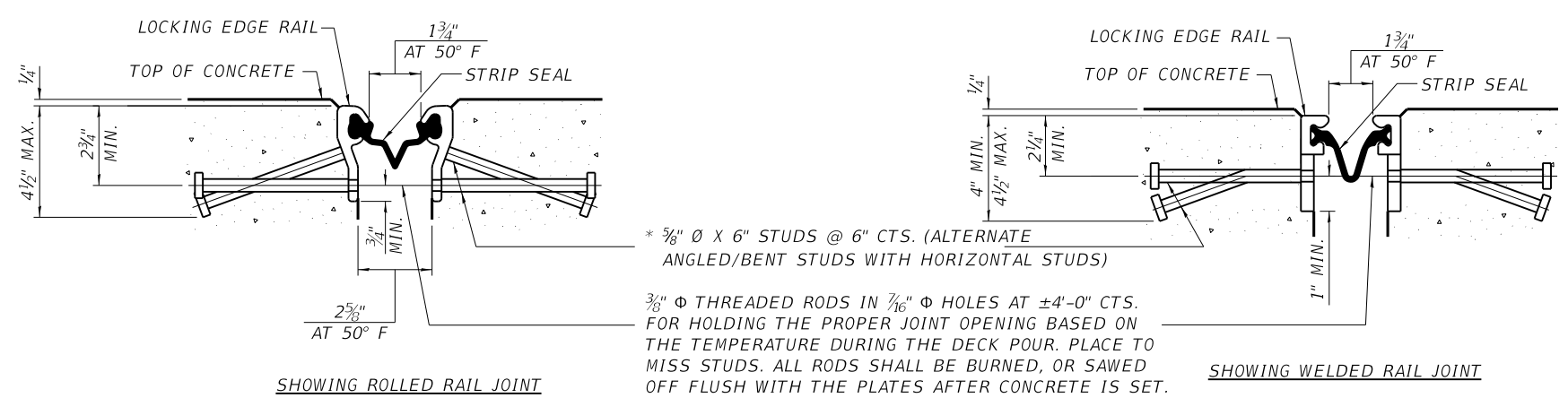
TRIMETRIC VIEW
 (SHOWING EMBEDDED PLATES ONLY)

BILL OF MATERIAL
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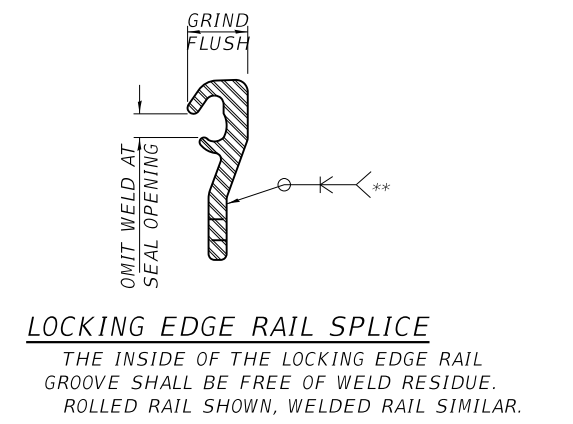
ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	84

BILL OF MATERIAL
STRUCTURE NO. 032-0082 (SB)

ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	84



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.

SECTION A-A
 * GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ARTICLE 1006.32 OF THE STD. SPECS., AUTOMATICALLY END WELDED.

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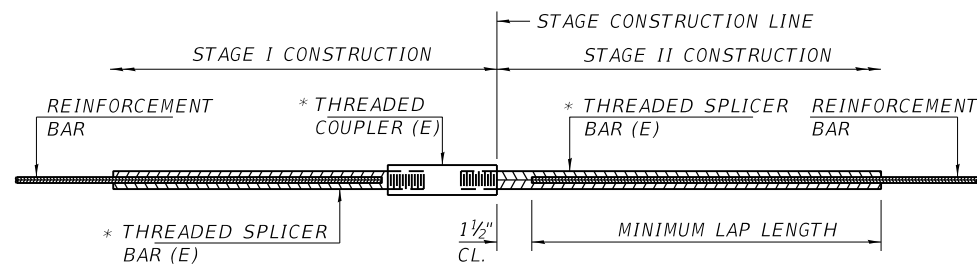
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	DATE - 2/14/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL

SCALE: SHEET 13 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	24
				CONTRACT NO. 66H25
		ILLINOIS	FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

THREADED SPLICER BAR LENGTH = MIN. LAP LENGTH + 1 1/2" + THREAD LENGTH

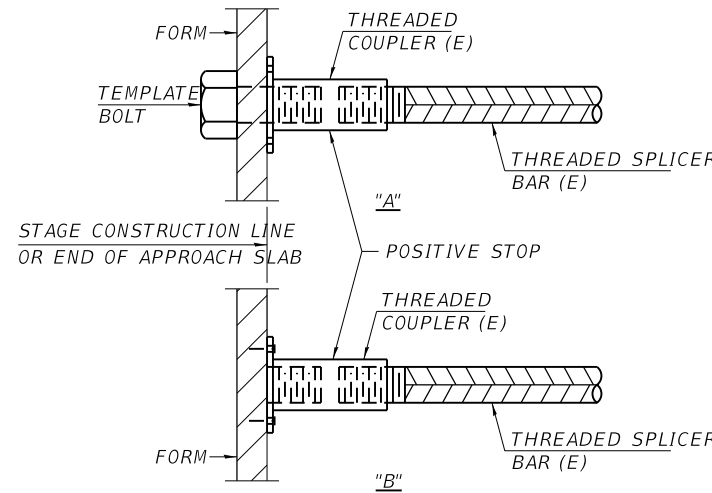
* EPOXY NOT REQUIRED ON BAR SPLICER ASSEMBLY COMPONENTS USED IN CONJUNCTION WITH BLACK BARS.

**BILL OF MATERIAL
STRUCTURE NO. 032-0083 (NB)**

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
WEST END DECK	#5	4	3'-0"
	#6	4	3'-7"
	#7	6	4'-2"
EAST END DECK	#5	4	3'-0"
	#6	4	3'-7"
	#7	6	4'-2"
TOTAL		28	

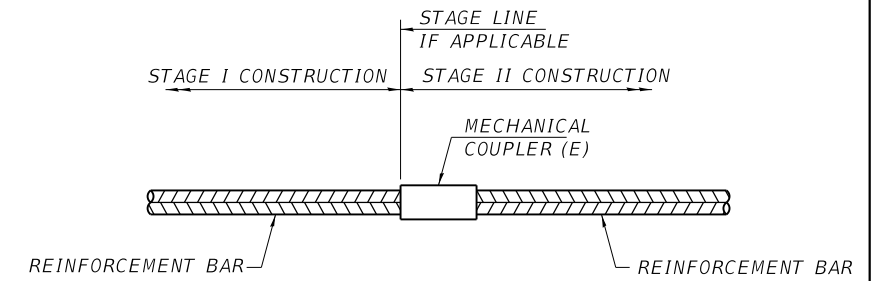
**BILL OF MATERIAL
STRUCTURE NO. 032-0082 (SB)**

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
WEST END DECK	#5	4	3'-0"
	#6	4	3'-7"
	#7	6	4'-2"
EAST END DECK	#5	4	3'-0"
	#6	4	3'-7"
	#7	6	4'-2"
TOTAL		28	



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.



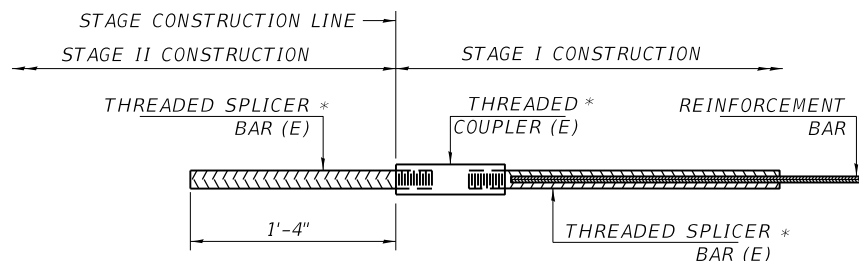
STANDARD MECHANICAL SPLICER

**BILL OF MATERIAL
STRUCTURE NO. 032-0083 (NB)**

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED
WEST END DECK	#5	60
EAST END DECK	#5	60
NORTH SIDE DECK	#5	330
SOUTH SIDE DECK	#5	334
TOTAL		784

**BILL OF MATERIAL
STRUCTURE NO. 032-0082 (SB)**

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED
WEST END DECK	#5	60
EAST END DECK	#5	60
NORTH SIDE DECK	#5	330
SOUTH SIDE DECK	#5	334
TOTAL		784



BAR SPLICER ASSEMBLY (SPECIAL)

**BILL OF MATERIAL
STRUCTURE NO. 032-0083 (NB)**

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED
W. END DECK	#6	5
E. END DECK	#6	5
TOTAL		10

**BILL OF MATERIAL
STRUCTURE NO. 032-0082 (SB)**

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED
W. END DECK	#6	5
E. END DECK	#6	5
TOTAL		10

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

MODEL: D:\out\... FILE NAME: P:\ILLINOIS\BARRIERS\TEC\Illinois.gov\PWIDOT\Documents\DOT_Offices\District 3\Projects\03266H25\CADD\03266H25-Details.dgn

USER NAME = woodyerjp	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - EP	REVISED -
PLOT DATE = 3/30/2018	DATE - 2/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

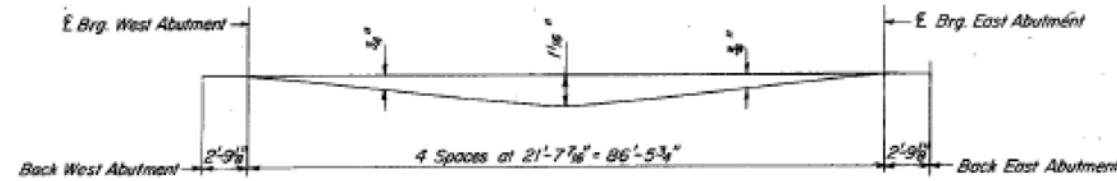
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

SCALE: SHEET 14 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	25
			CONTRACT NO. 66H25	
		ILLINOIS	FED. AID PROJECT	

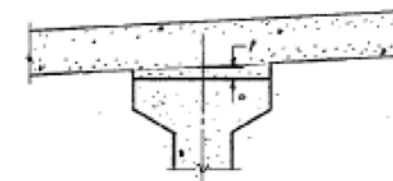
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 14 SHEETS
55	32-3B-1	Grundy	66	55	
FED. AID PROJ. NO. 7		ILLINOIS		FED. AID PROJECT	



DEAD LOAD DEFLECTION DIAGRAM

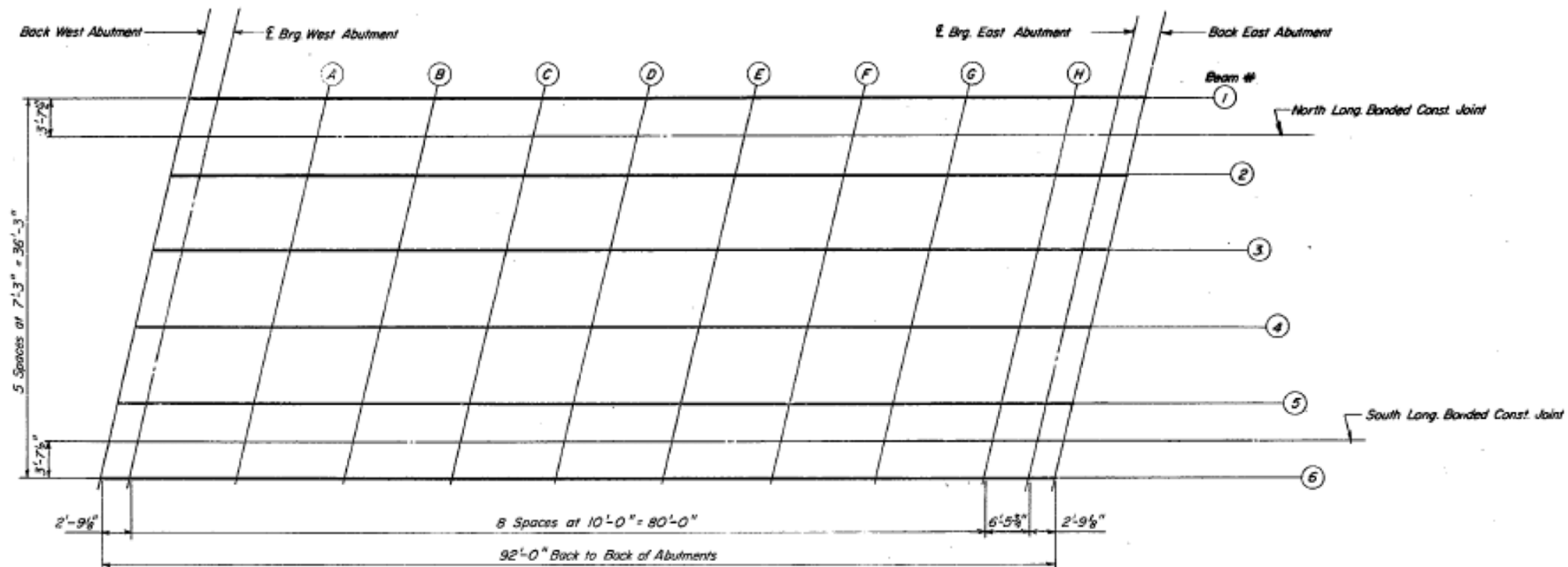
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet # 4



To determine "r": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted algebraically from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheet # 4, minus slab thickness, equals the fillet heights "r". A positive value of "r" equals the fillet height above the top of the beam. A negative value of "r", not to exceed 2", equals the embedment of the beam above the theoretical bottom of slab elevation.

FILLET HEIGHTS

(Cross Section Shown Looking East)



PLAN

DESIGNED	<i>Calvin Strong</i>
CHECKED	R. P. Rookley
DRAWN	P. Barnett
CHECKED	R. P. Rookley

APPROVED	<i>[Signature]</i>	APR 25 1972
EXAMINED	<i>[Signature]</i>	
PASSED		
APPROVED		

ELEVATION DETAILS
F.A.I. RT. 55 SEC. 32-3B-1
GRUNDY COUNTY
STA. 439+33

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DECK ELEVATION DETAILS WITHOUT OVERLAY
FOR INFORMATION ONLY

USER NAME = woodyerjp	DESIGNED - RW	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 3/30/2018	CHECKED - EP	REVISED -
	DATE - 2/14/2018	REVISED -

SCALE: SHEET 15 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(32-3B-1)BRR	GRUNDY	27	26
			CONTRACT NO. 66H25	
		ILLINOIS	FED. AID PROJECT	

