

INDEX OF SHEETS 04-27-12 LETTING ITEM 085

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 80 (I-80)
SECTION (50-2BR)I

BRIDGE REPAIR
SN 050-0220 (EB) & SN 050-0221 (WB)
CARRYING FAI ROUTE 80 (I-80)
OVER THE LITTLE VERMILION RIVER
APPROXIMATELY 0.29 MILES EAST OF IL 351
LASALLE COUNTY

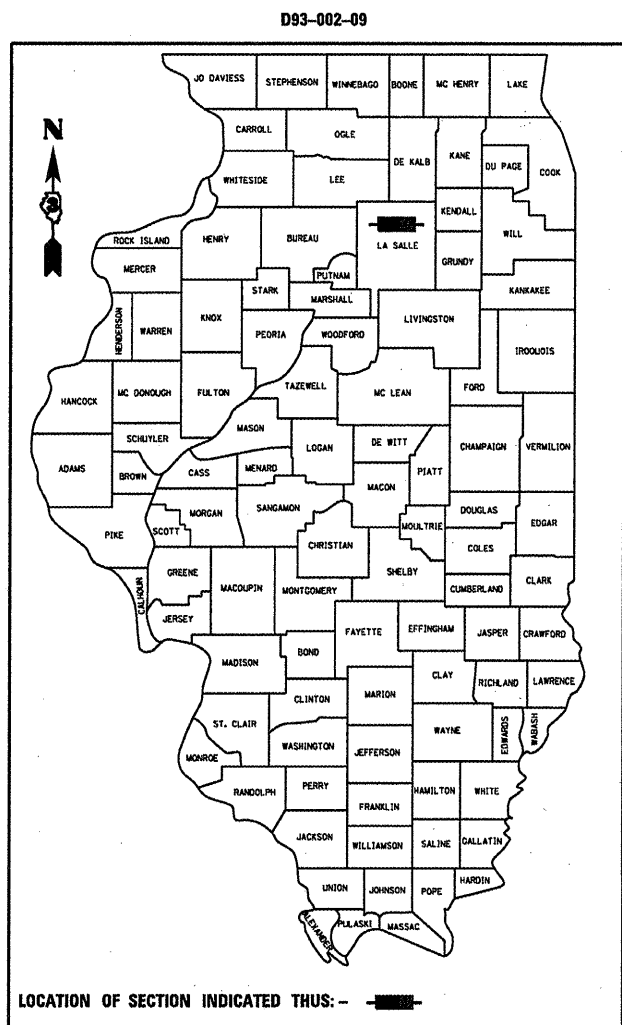
C-93-039-09

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)I	LASALLE	29	1
ILLINOIS			CONTRACT NO. 66889	

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2. GENERAL NOTES
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4. TYPICAL SECTION
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STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701101-02 OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701426-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS > 45 MPH.
- 701901-02 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER



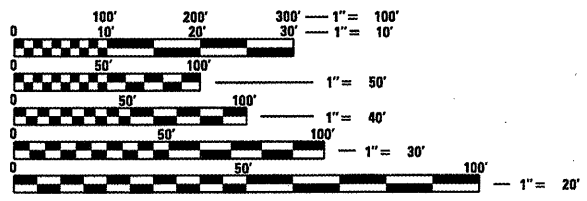
RURAL INTERSTATE FAI 80 (I-80) 2011	
ADT	28300
P.V.	75.09%
S.U.	5.83%
M.U.	19.08%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 2-19 2012
Eric S. Thielke
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23 2012
John D. Baranzelli, PE, Jr.
Acting ENGINEER OF DESIGN AND ENVIRONMENT

March 23 2012
William R. Frey, Jr.
Acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



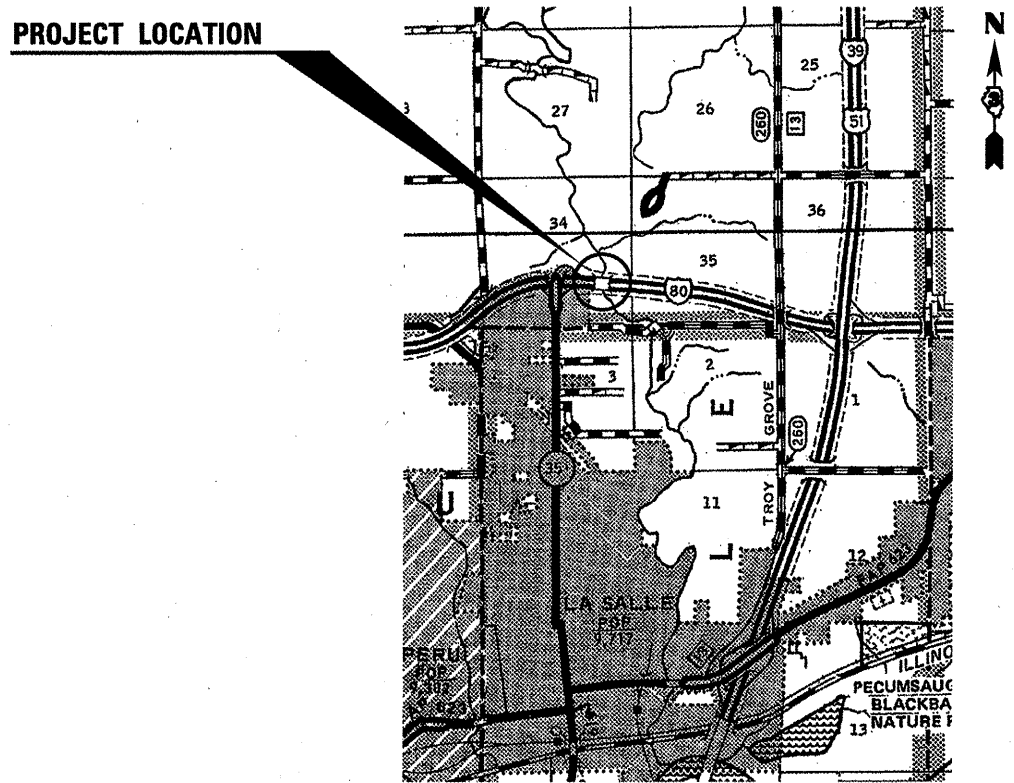
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT 3 (815) 434-6131

PROJECT ENGINEER: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
TOWNSHIP: DIMMICK

CONTRACT NO. 66889



GROSS LENGTH = 885.13 FT. = 0.168 MILE
NET LENGTH = 885.13 FT. = 0.168 MILE

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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

DATE: 2-16-12

PREPARED BY: *Tom Bennis*
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: *Heidi Jones*
DISTRICT CONSTRUCTION ENGINEER

Wayne Mulvey
DISTRICT MATERIALS ENGINEER

Bruce A. Hooker
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = petelyj	DESIGNED - RON WOODSHANK	REVISED -
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PLOT SCALE = 100:1 1/2" = 1'-0"		CHECKED -	REVISED -
PLOT DATE = 2/16/2012		DATE -	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.
80	(50-2BR)I	LASALLE	29	2
CONTRACT NO. 66889				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				STATE FUNDS 100% STATE ROADWAY 0014 RURAL
44201027	CLASS B PATCHES, TYPE I, 15 INCH	SO YD	5	5
50102400	CONCRETE REMOVAL	CU YD	21.4	21.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	21.4	21.4
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2870	2870
50800515	BAR SPLICERS	EACH	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	205	205
67100100	MOBILIZATION	L SUM	1	1
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	5122	5122
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1640	1640
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1425	1425
• 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	10420	10420
• 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	1364	1364
• 78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	1808	1808
• 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	258	258
78300100	PAVEMENT MARKING REMOVAL	SO FT	5852	5852
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOUR	500	500
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	2	2
X5030530	FLOOR DRAINS EXTENSION	EACH	1	1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	126	126
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH ^{EQUAL TO OR} LESS THAN 5 INCHES)	SO FT	19	19
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	12	12
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	110	110
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	76	76
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 78100100	RAISED ^{REFLECTIVE} PAVEMENT MARKER	EACH	126	126

• SPECIALITY ITEMS

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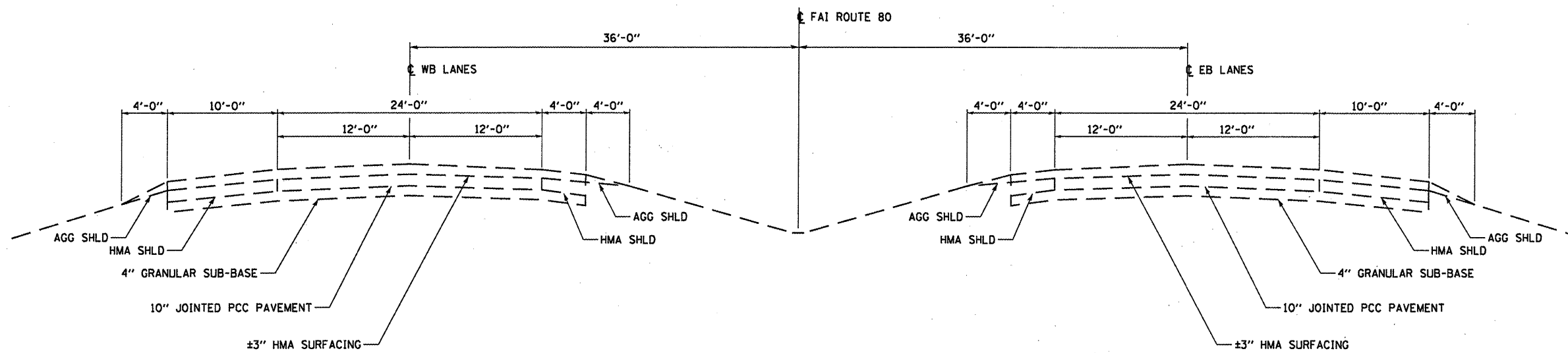
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	3
CONTRACT NO. 66889			ILLINOIS FED. AID PROJECT	

Rev.



I 80 -MAINLINE TYPICAL SECTION

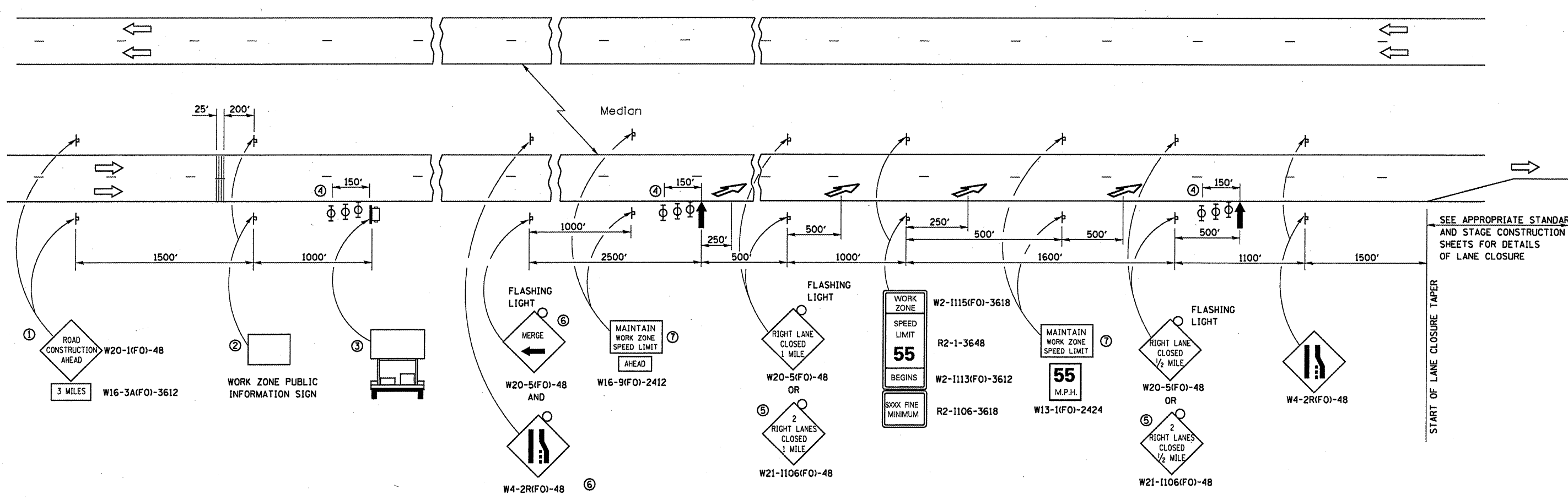
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION

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

F.A.I. RTE. 80	SECTION (50-2BR)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 4
CONTRACT NO. 66889			ILLINOIS FED. AID PROJECT	

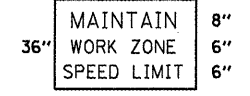


SEE APPROPRIATE STANDARD AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE

START OF LANE CLOSURE TAPER

- 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 50' 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 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.
48"



- ↑ ARROW BOARD
- ▭ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ 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 ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

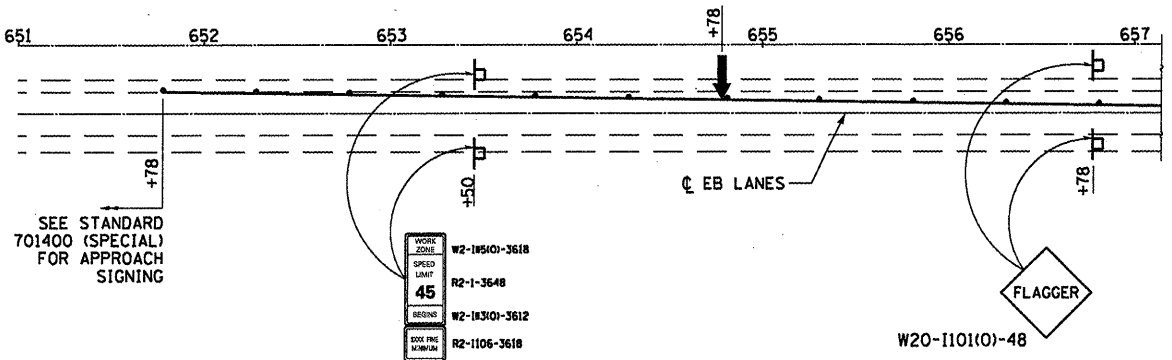
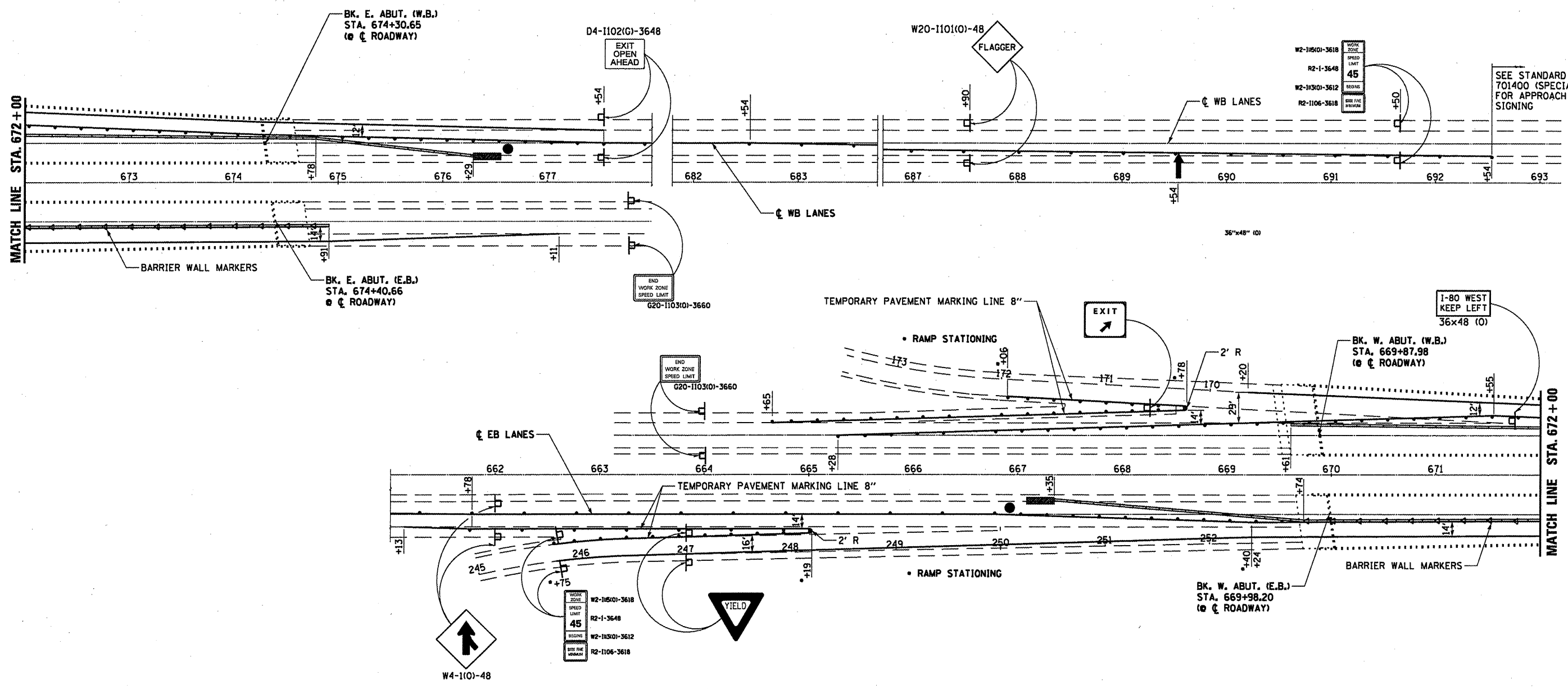
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PLOT DATE = 2/16/2012		DATE -	REVISED -

**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. 80	SECTION (50-2BR1)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 5
CONTRACT NO. 66889				ILLINOIS FED. AID PROJECT



- SYMBOLS**
- ↑ Arrow board
 - ▨ Work area
 - ⊥ Sign
 - Traffic control drum, with steady burn monodirectional light
 - Temporary concrete barrier
 - ◁ Monodirectional barrier wall/guardrail marker
 - ▤ Impact attenuator
 - Flagger

- ① Temporary pavement marking tape shall be placed throughout the taper and alongside the work area as shown. Temporary pavement marking tape shall be 4" width unless otherwise specified. The right edge line shall be white and the left edge line shall be yellow. Cost of furnishing, and installing the temporary pavement markings shall be according to Article 703.07 of the Standard Specifications.
- ② Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber. Cost included in the temporary concrete barrier item.
- ③ Vertical barricades shall not be used in lane shift taper.

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 (600) 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).

Temporary concrete barrier shall be according to Standard 704001.

Traffic Control Drums shall be used throughout lane closure tapers and along side work zones. Drum spacing shall be 25' cts. on tapers and 50' cts. on tangent sections.

Flaggers and flagger signs shall be required whenever the temporary concrete barrier is not in place.

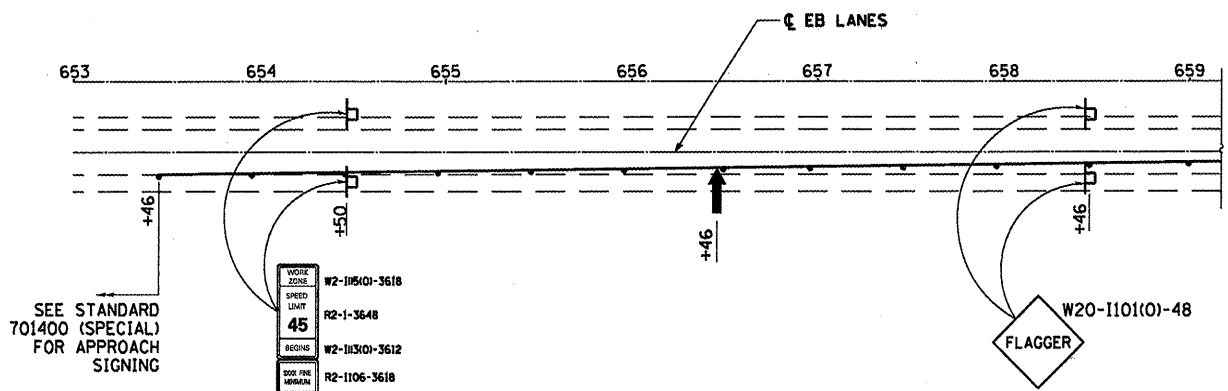
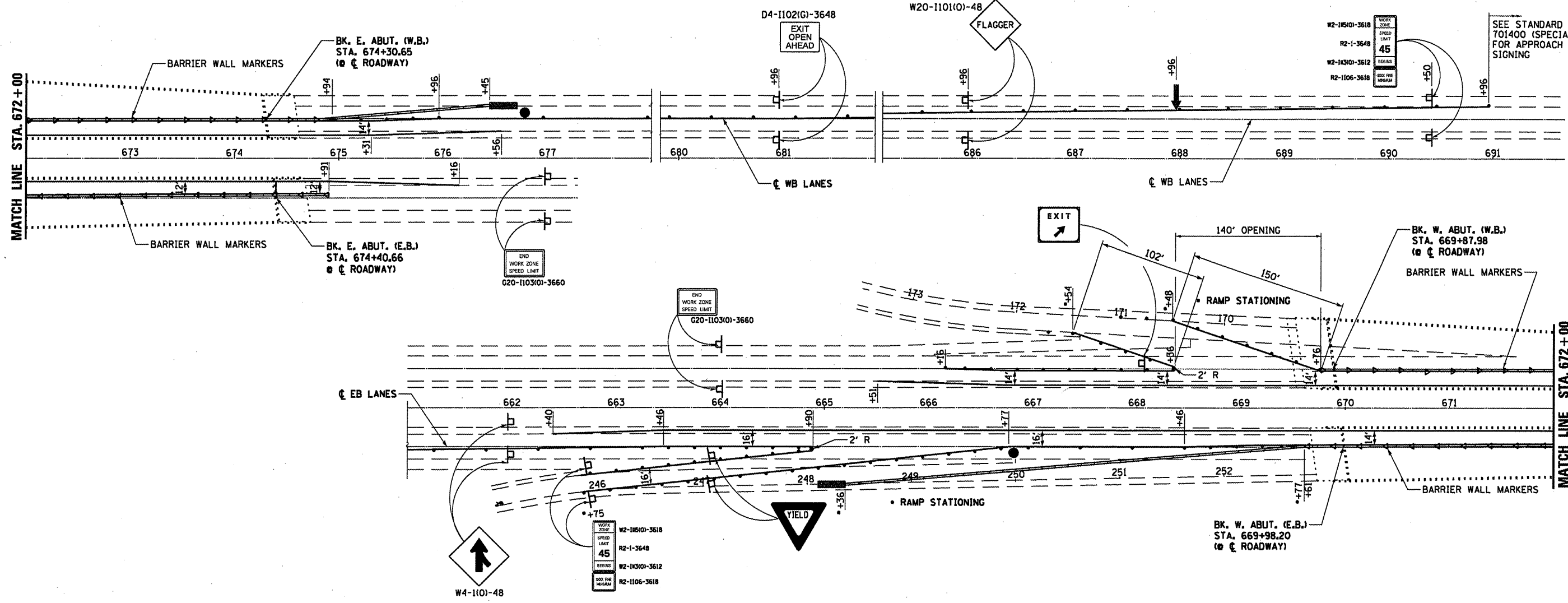
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION,
STANDARD 701402 (SPECIAL) - STAGE I**

SCALE: 50 SHEET 1 OF 2 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	6
CONTRACT NO. 66889				
ILLINOIS FED. AID PROJECT				



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- Traffic control drum, with steady burn monodirectional light
- ▭ Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▩ Impact attenuator
- Flagger

- ① Temporary pavement marking tape shall be placed throughout the taper and along side the work area as shown. The right edge line shall be white and the left edge line shall be yellow. Cost of furnishing, and installing the temporary pavement markings shall be according to Article 703.07 of the Standard Specifications.
- ② Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber. Cost included in the temporary concrete barrier item.
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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 (600) of the edge of pavement for daylight operation exceeding one day and where temporary concrete barrier is utilized.

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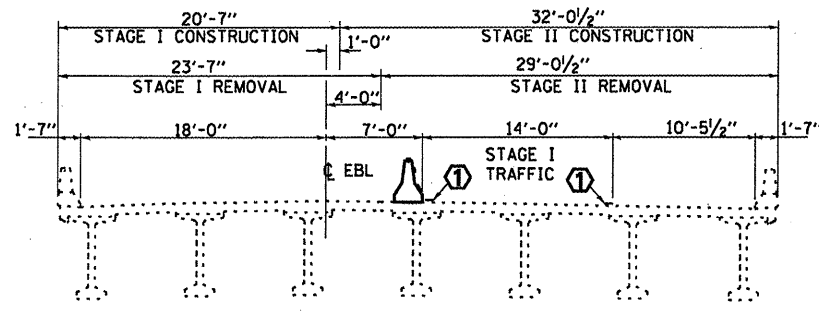
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

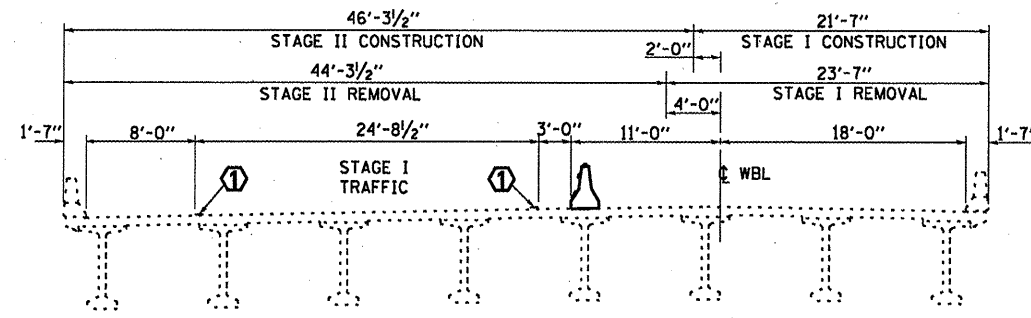
**TRAFFIC CONTROL AND PROTECTION,
STANDARD 701402 (SPECIAL) - STAGE II**

SCALE: 50 SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____

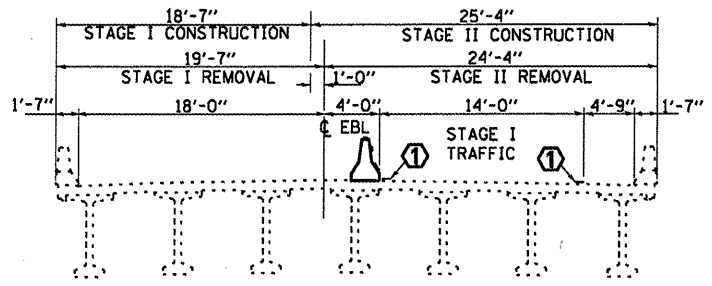
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80	(50-2BR)	LASALLE	29	7
CONTRACT NO. 66889				
ILLINOIS FED. AID PROJECT				



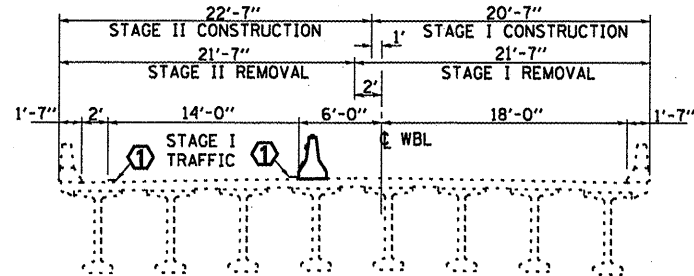
**EASTBOUND STRUCTURE
AT WEST ABUT.
(LOOKING EAST)**



**WESTBOUND STRUCTURE
AT WEST ABUT.
(LOOKING EAST)**



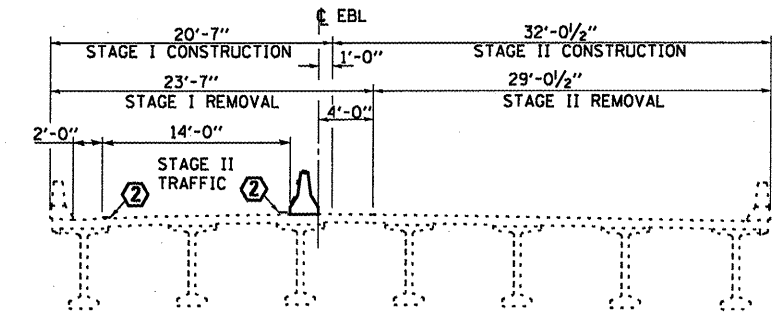
**EASTBOUND STRUCTURE
AT EAST ABUT.
(LOOKING EAST)**



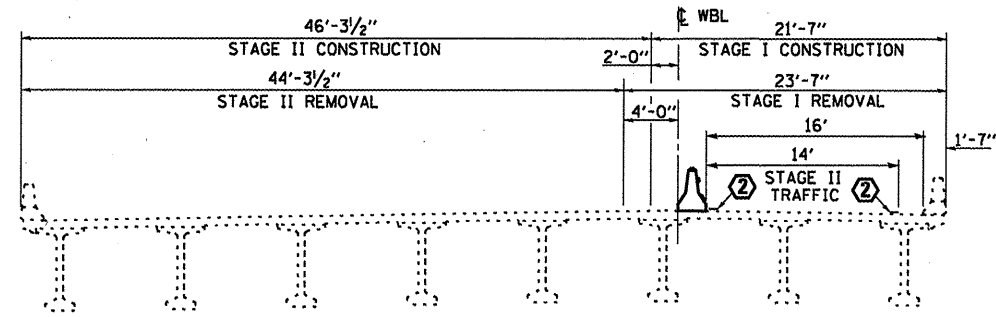
**WESTBOUND STRUCTURE
AT EAST ABUT.
(LOOKING EAST)**

STAGE I

① TEMPORARY PAVEMENT MARKING - STAGE I

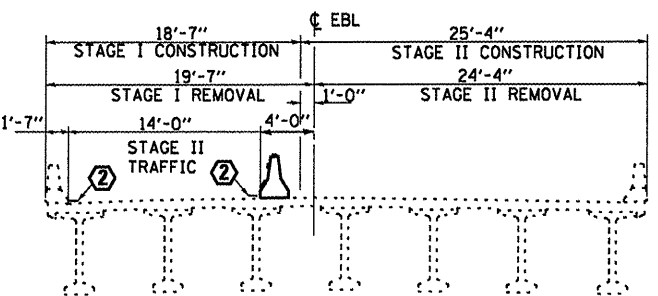


**EASTBOUND STRUCTURE
AT WEST ABUT.
(LOOKING EAST)**

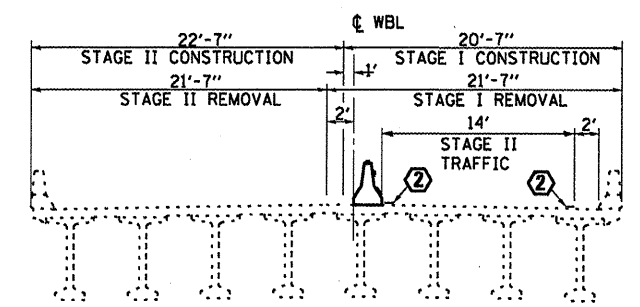


**WESTBOUND STRUCTURE
AT WEST ABUT.
(LOOKING EAST)**

② TEMPORARY PAVEMENT MARKING - STAGE II



**EASTBOUND STRUCTURE
AT EAST ABUT.
(LOOKING EAST)**



**WESTBOUND STRUCTURE
AT EAST ABUT.
(LOOKING EAST)**

STAGE II

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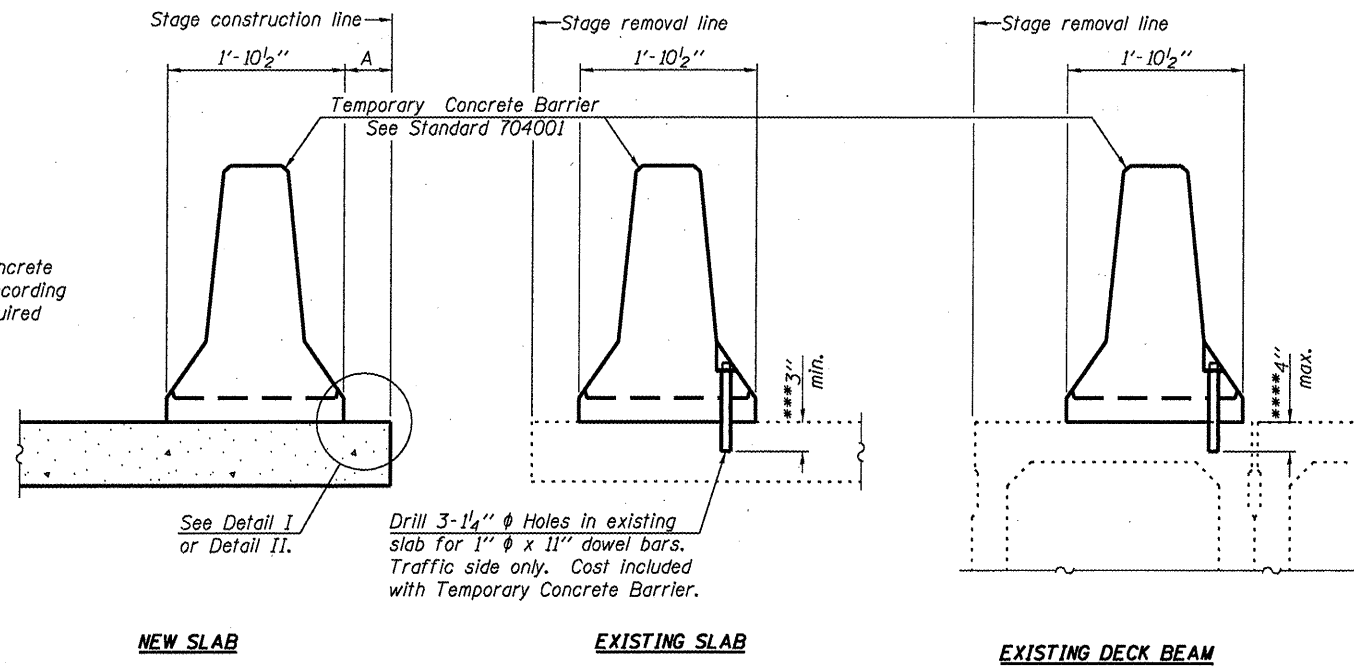
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL STAGING DETAILS

SCALE: 50 SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	8
CONTRACT NO. 66889				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

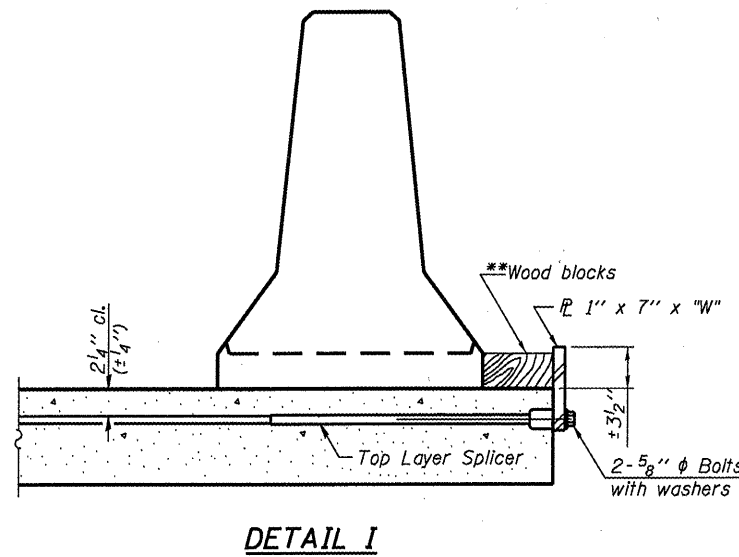
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

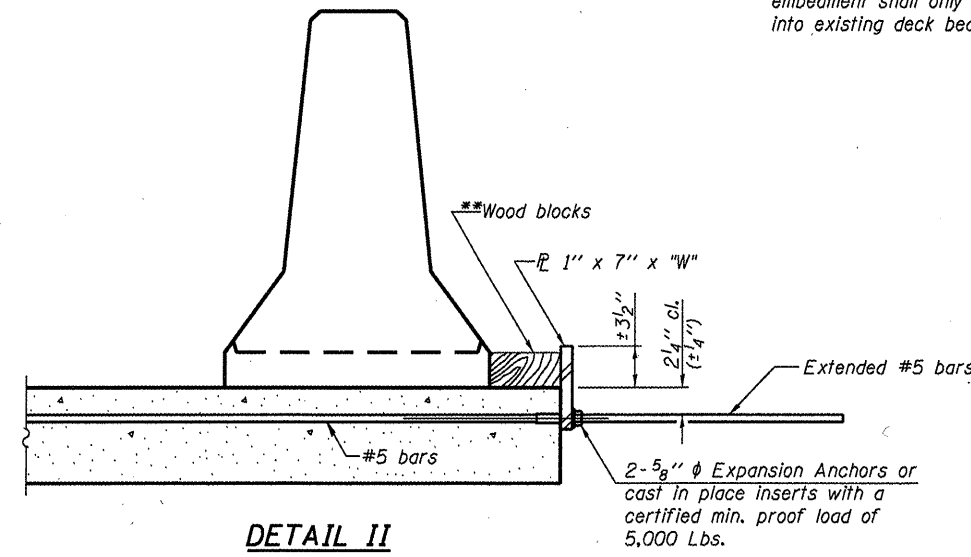
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



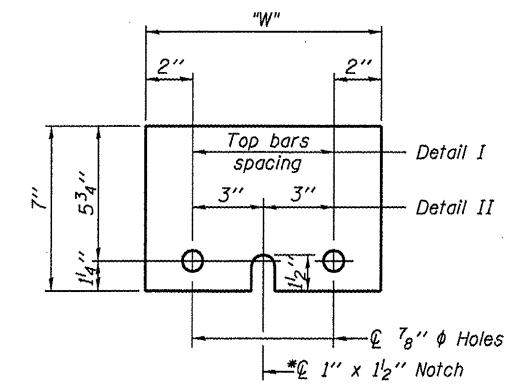
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER \bar{P} 1" x 7" x "W"

* Required only with Detail II

R-27

7-1-10

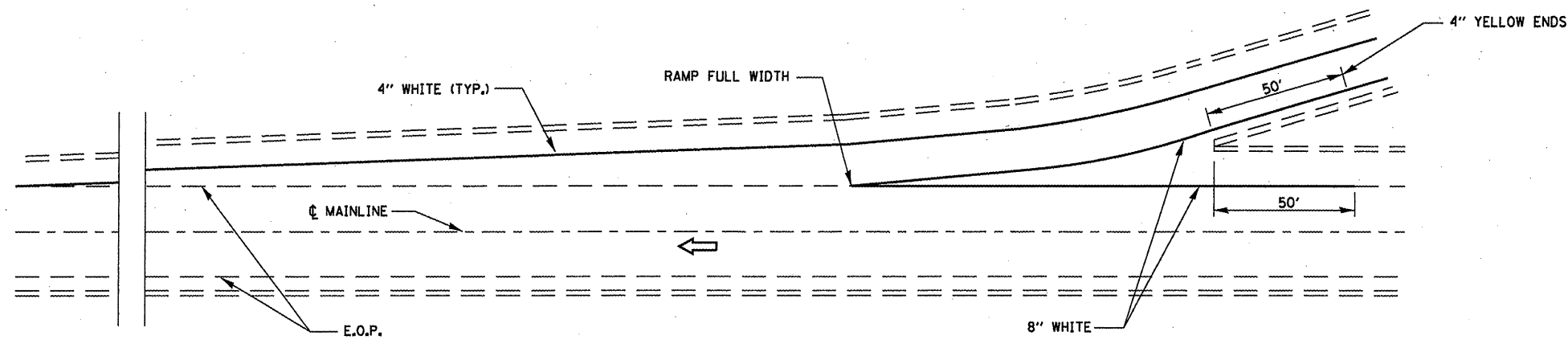
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

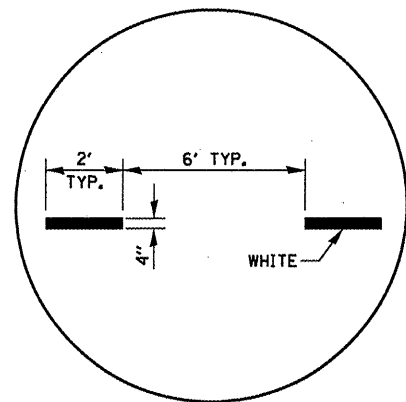
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION

SCALE: 50 SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

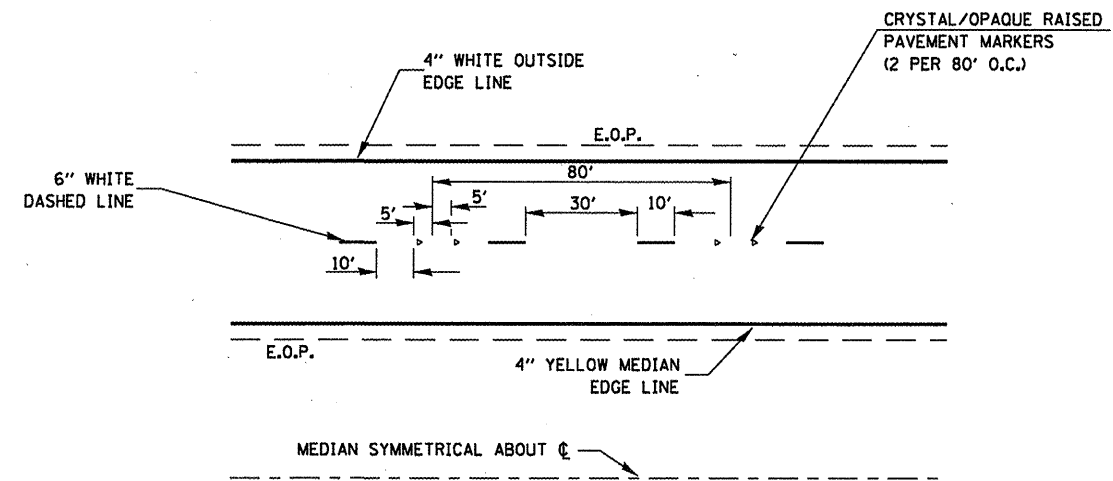
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80	(50-2BR1)	LASALLE	29	9
CONTRACT NO. 66889			ILLINOIS FED. AID PROJECT	



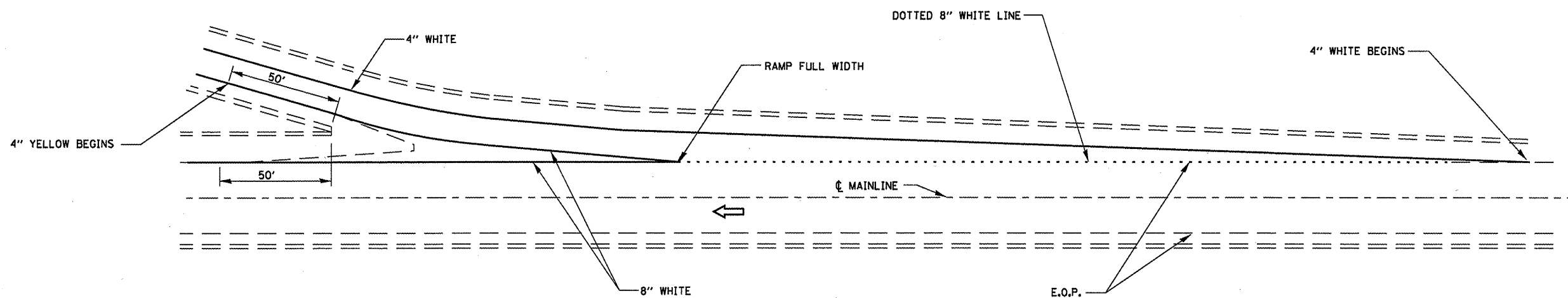
TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



INTERSTATE RAMP TRANSITION LINE



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

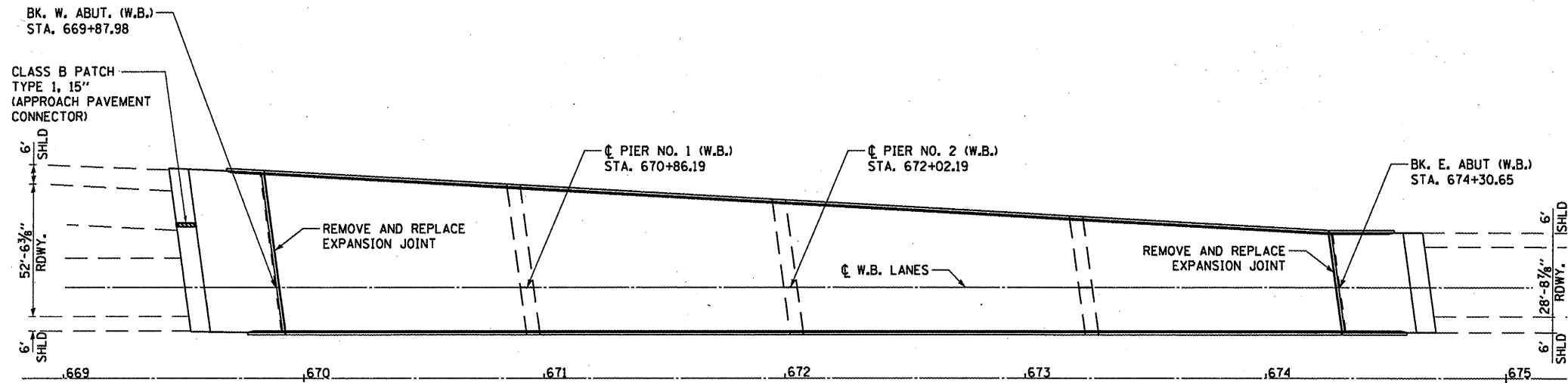
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR1)	LASALLE	29	10
CONTRACT NO. 66889				
<small>ILLINOIS FED. AID PROJECT</small>				

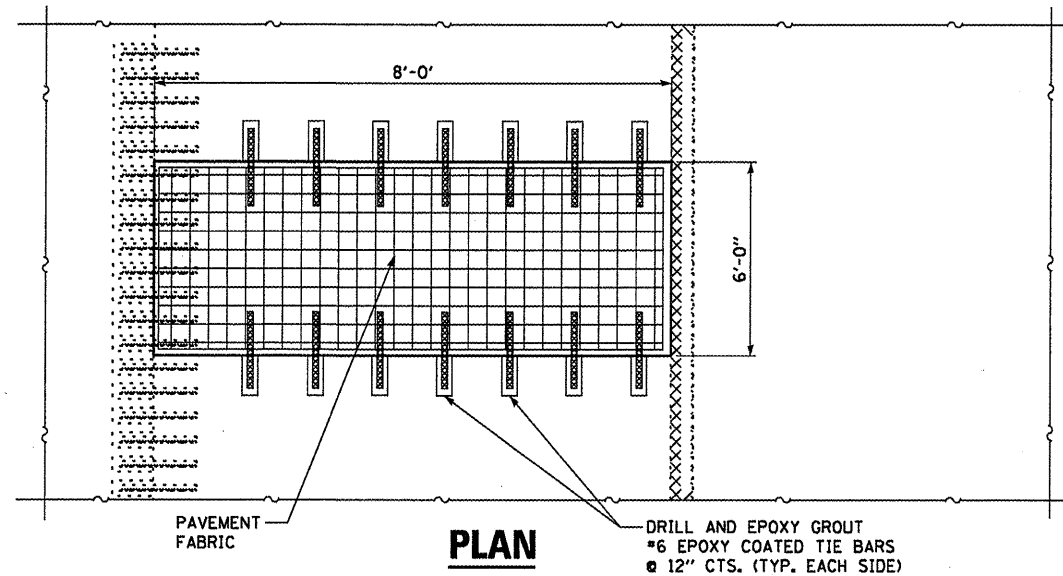


PLAN

**Bill of Materials for
Pavement Patching (Full Depth)**

ITEM	UNIT	QUANTITY
Saw Cuts	Foot	16
Concrete Removal	Cu. Yd.	2
Concrete Replacement	Cu. Yd.	2
Pavement Fabric	Pound	5
Drill & Epoxy Grout #6 Tie Bars	L.S.	14

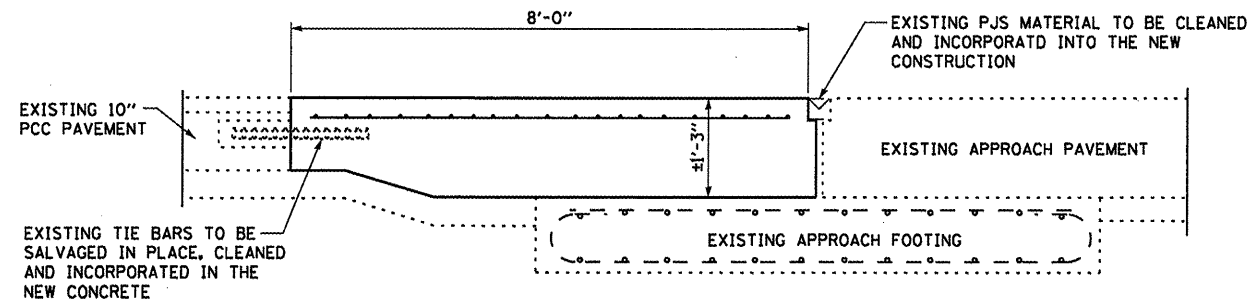
"QUANTITIES FOR INFORMATION ONLY"



PLAN

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS B PATCH, TYPE I 15"	SQ YD	5



CROSS SECTION

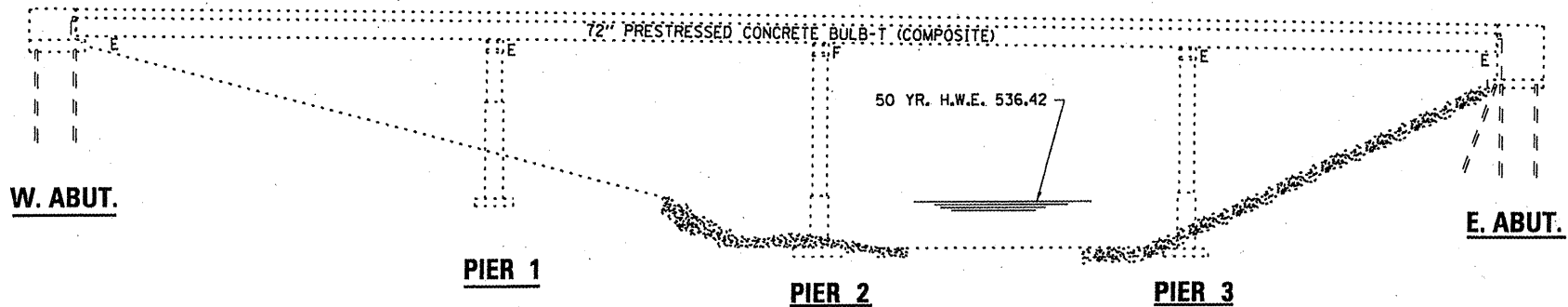
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING (FULL DEPTH) DETAILS

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

F.A.I. RTE. 80	SECTION (50-2BR1)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 11
CONTRACT NO. 66889				ILLINOIS FED. AID PROJECT



**ELEVATION
LOOKING NORTH**

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.

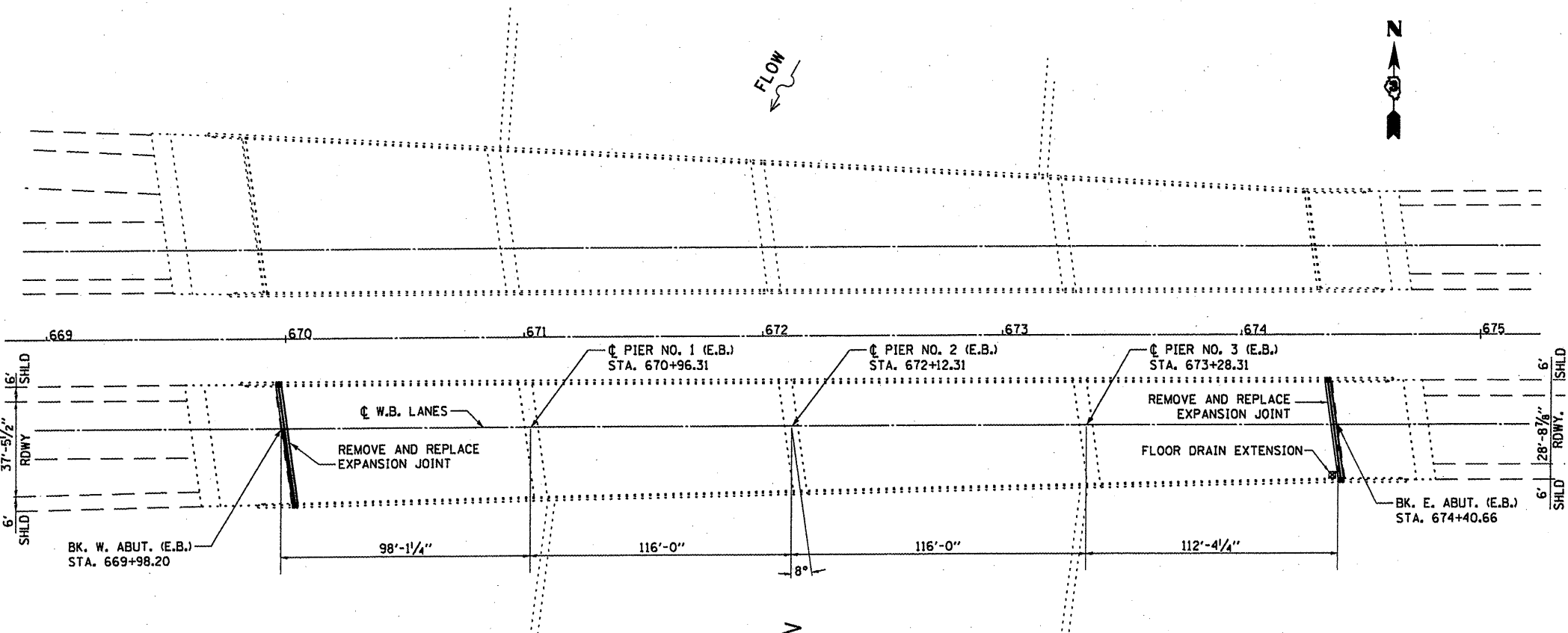
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

COST OF REMOVAL AND RE-INSTALLATION OF ALL MEMBERS NECESSARY TO COMPLETE THE WORK AS DETAILED ON THE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS SHALL BE INCLUDED WITH THE PAY ITEM REQUIRING THIS WORK.

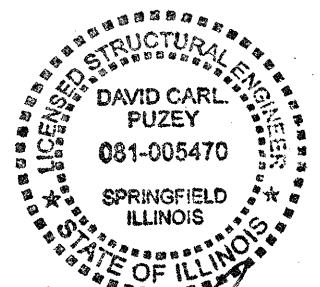
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE PPC BULB T-BEAMS.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.



PLAN
LITTLE
VERMILION
RIVER



David Carl Puzey 3/15/12
Expires 11/30/12

**TOTAL BILL OF MATERIAL
EB STRUCTURE**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	10.2
CONCRETE SUPERSTRUCTURE	CU YD	10.2
REINFORCEMENT BARS EPOXY COATED	POUND	1320
BAR SPLICERS	EACH	12
PREFORMED JOINT STRIP SEAL	FOOT	95
DECK SLAB REPAIR (PARTIAL)	SQ YD	51
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	47
FLOOR DRAIN EXTENSION	EACH	1

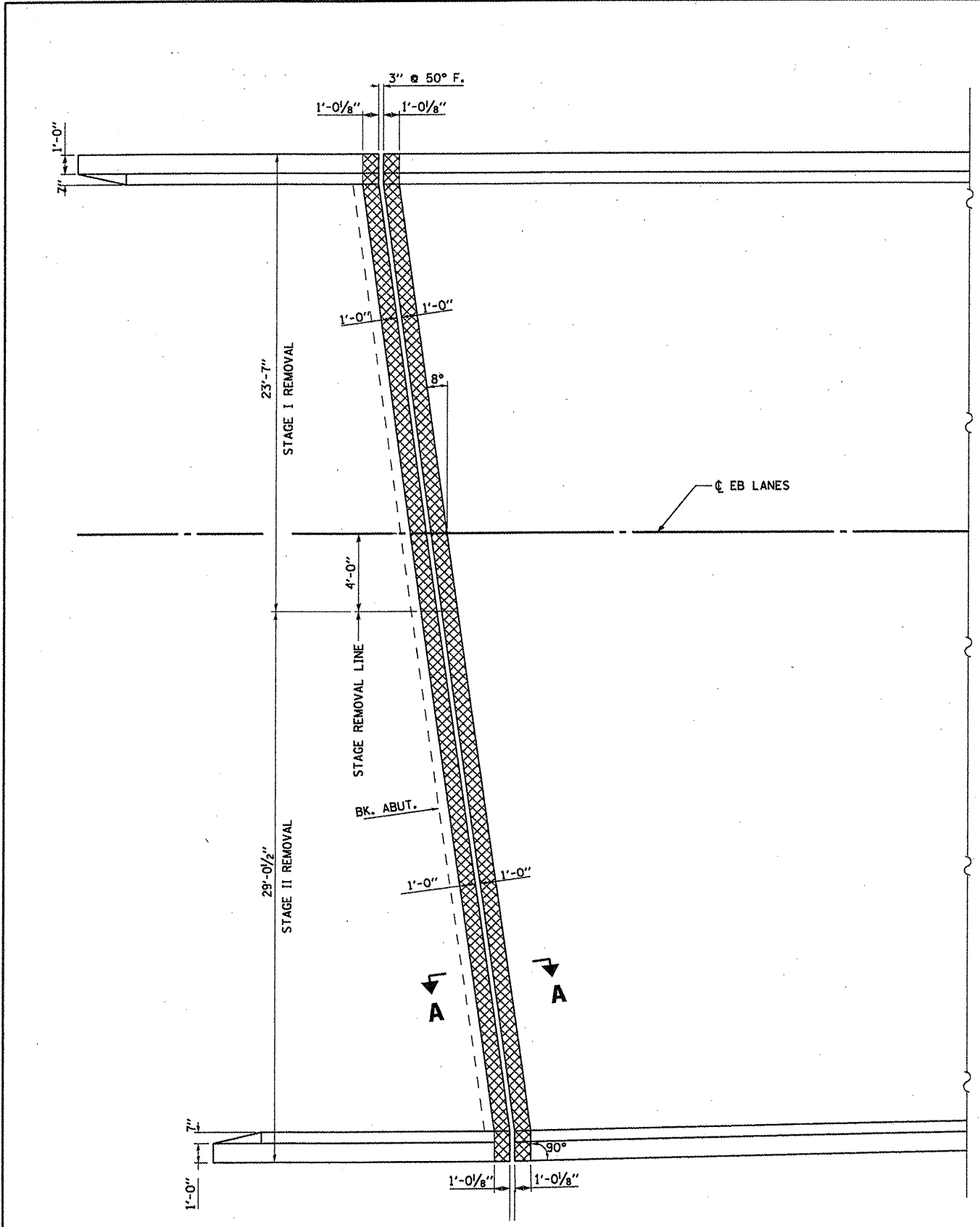
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

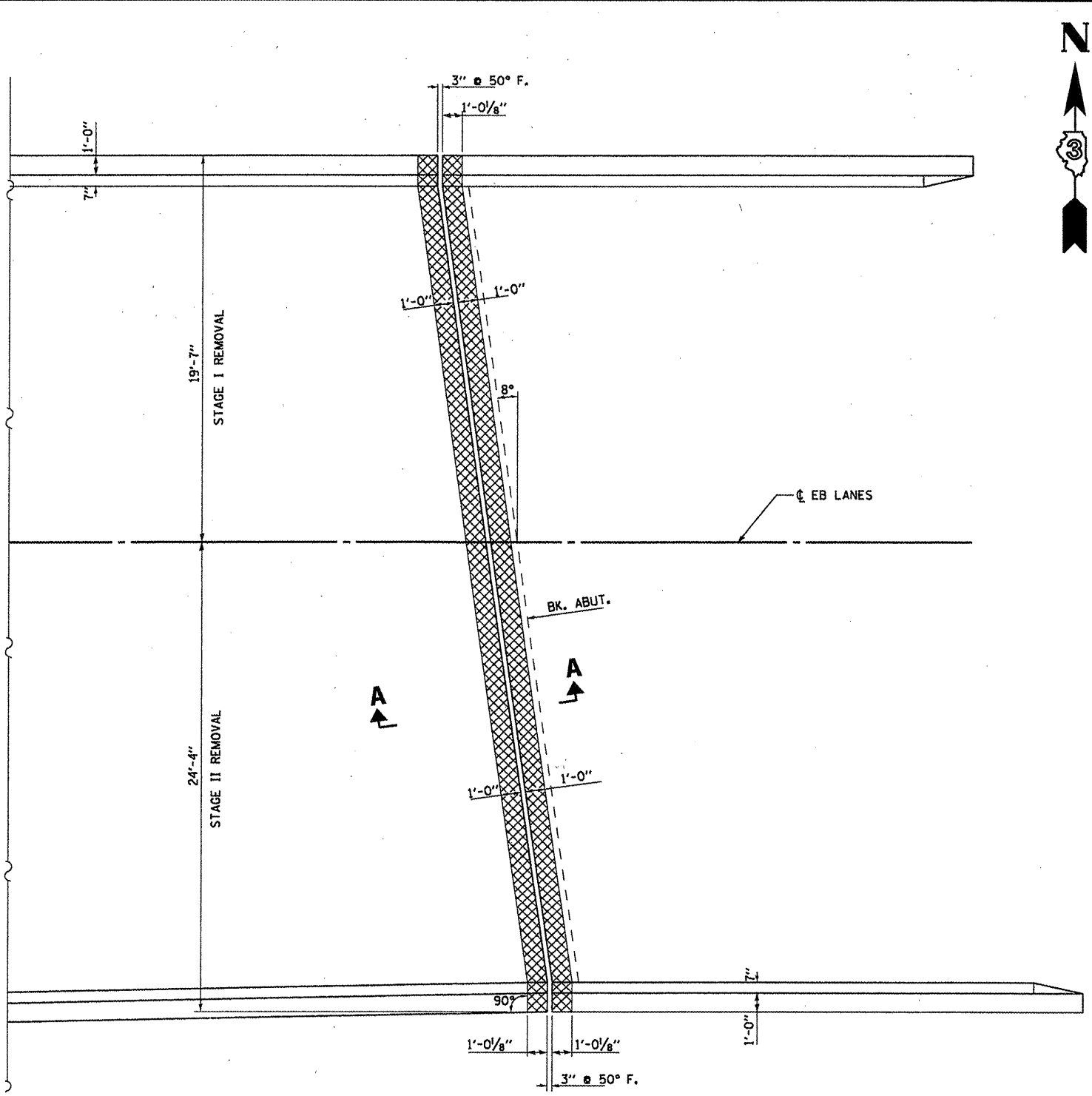
**GENERAL PLAN AND ELEVATION
FOR STRUCTURE NO. 050-0220 (EB)**

SCALE: SHEET 1 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

F.A.I. RTE. 80	SECTION (50-2BR1)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 12
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



PLAN AT WEST ABUTMENT



PLAN AT EAST ABUTMENT



CONCRETE REMOVAL

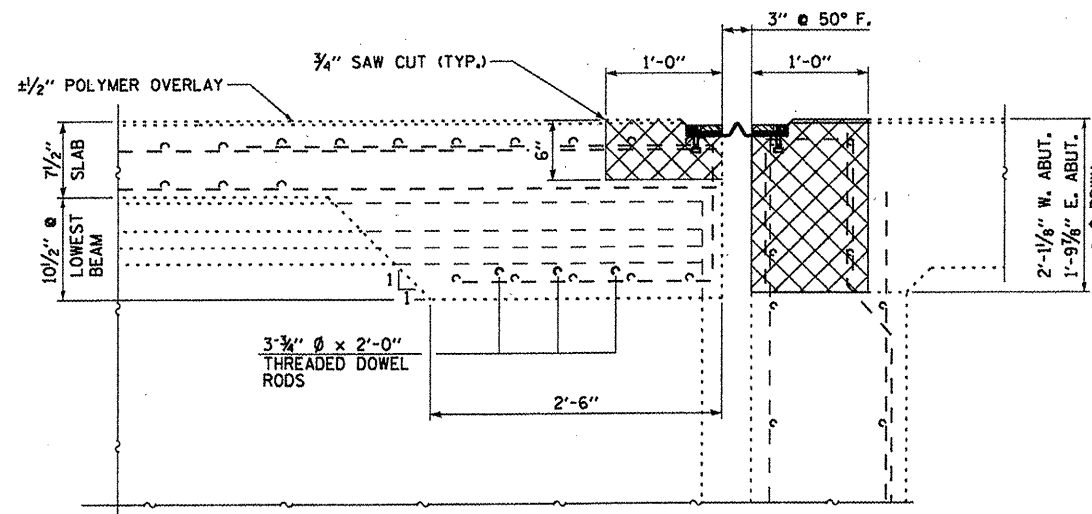
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

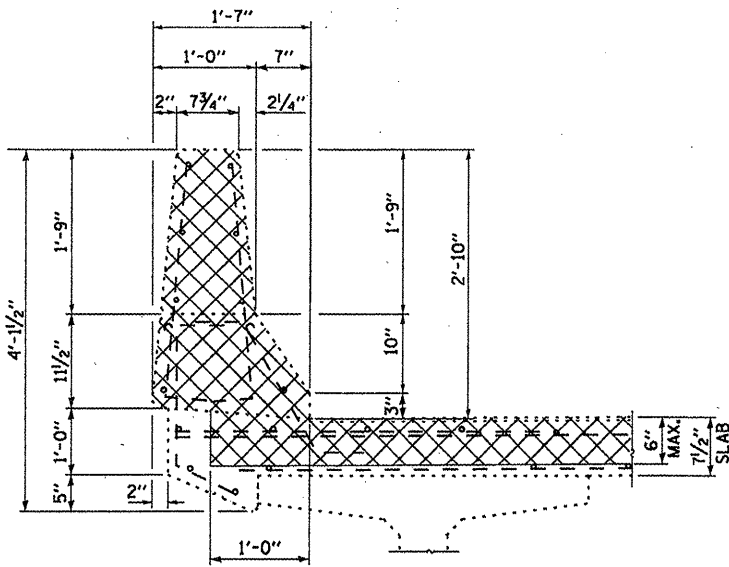
**SUPERSTRUCTURE PLAN - REMOVAL
FOR SN 050-0220 (E.B.)**

SCALE: _____ SHEET 2 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

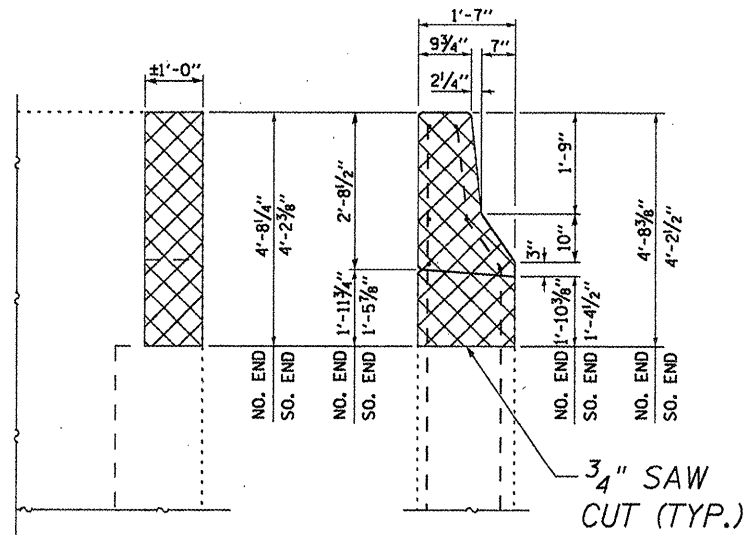
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	13
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



SECTION A-A



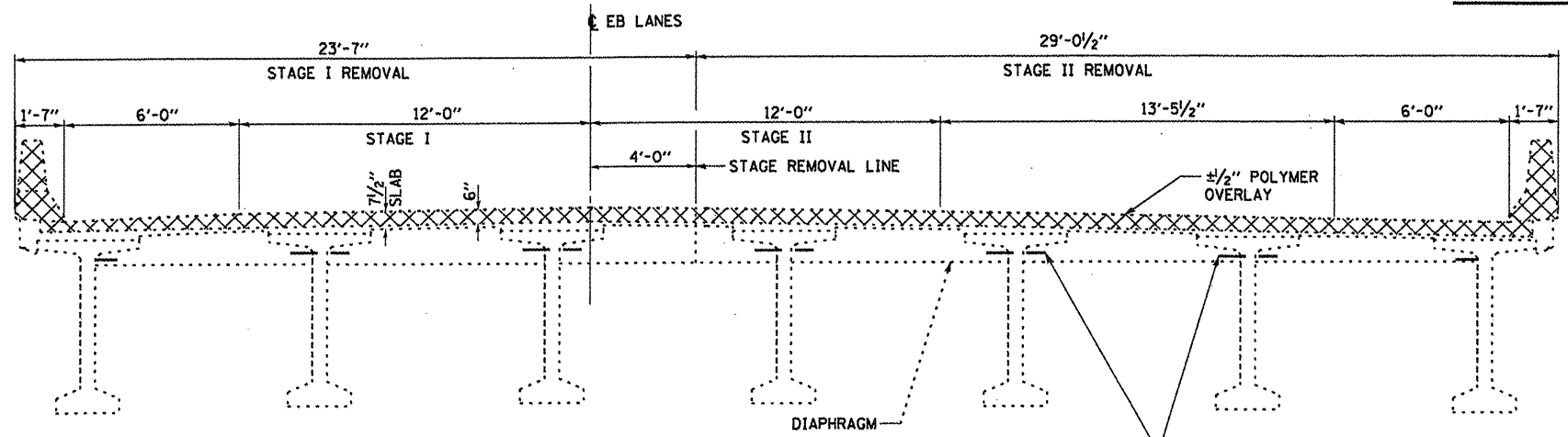
SECTION AT CURB



ELEVATION

END ELEVATION

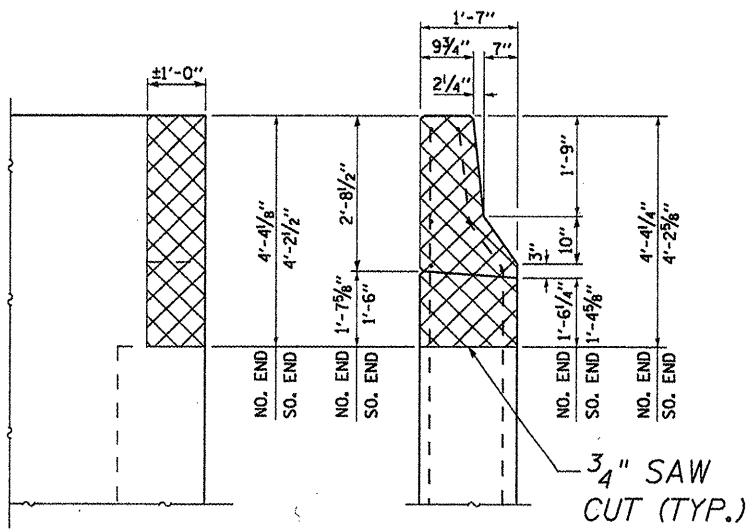
W. ABUT. WINGWALL



CROSS SECTION AT WEST ABUTMENT

LOOKING EAST

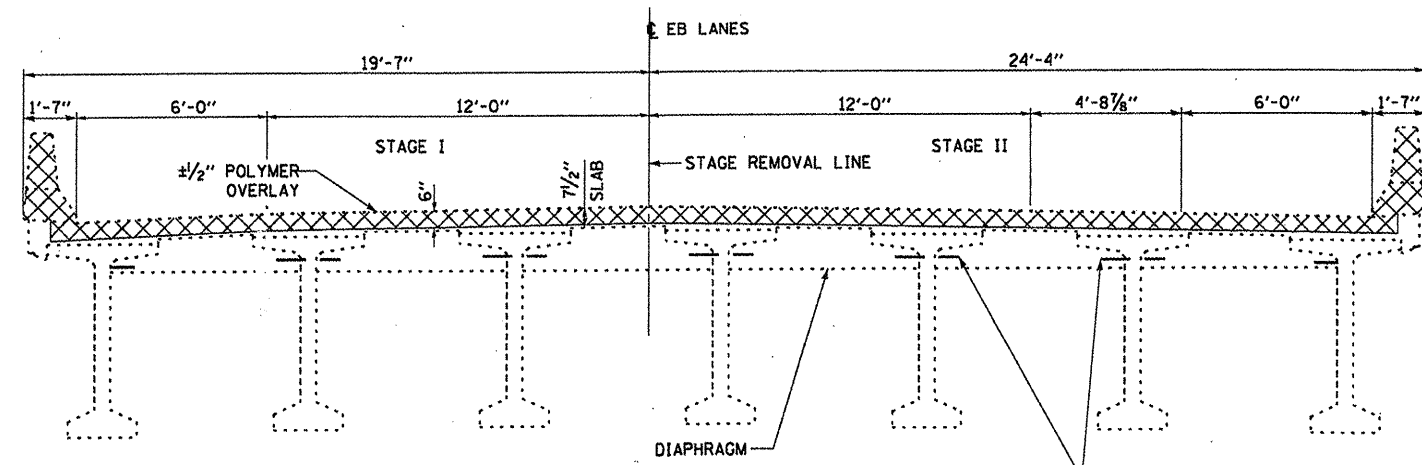
MEASUREMENTS ARE AT RIGHT L'S TO CL RDWY



ELEVATION

END ELEVATION

E. ABUT. WINGWALL



CROSS SECTION AT EAST ABUTMENT

LOOKING EAST

MEASUREMENTS ARE AT RIGHT L'S TO CL RDWY

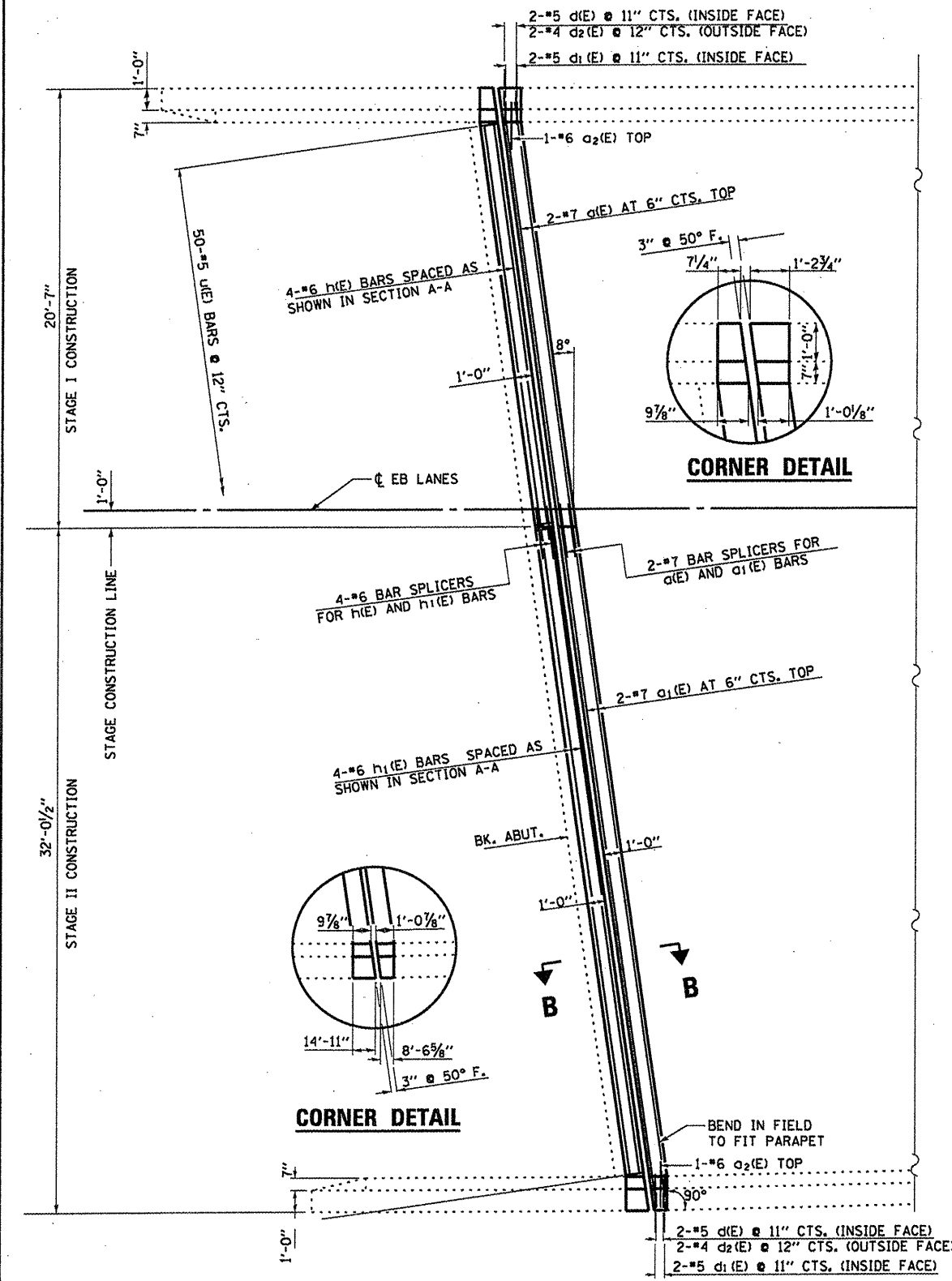
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

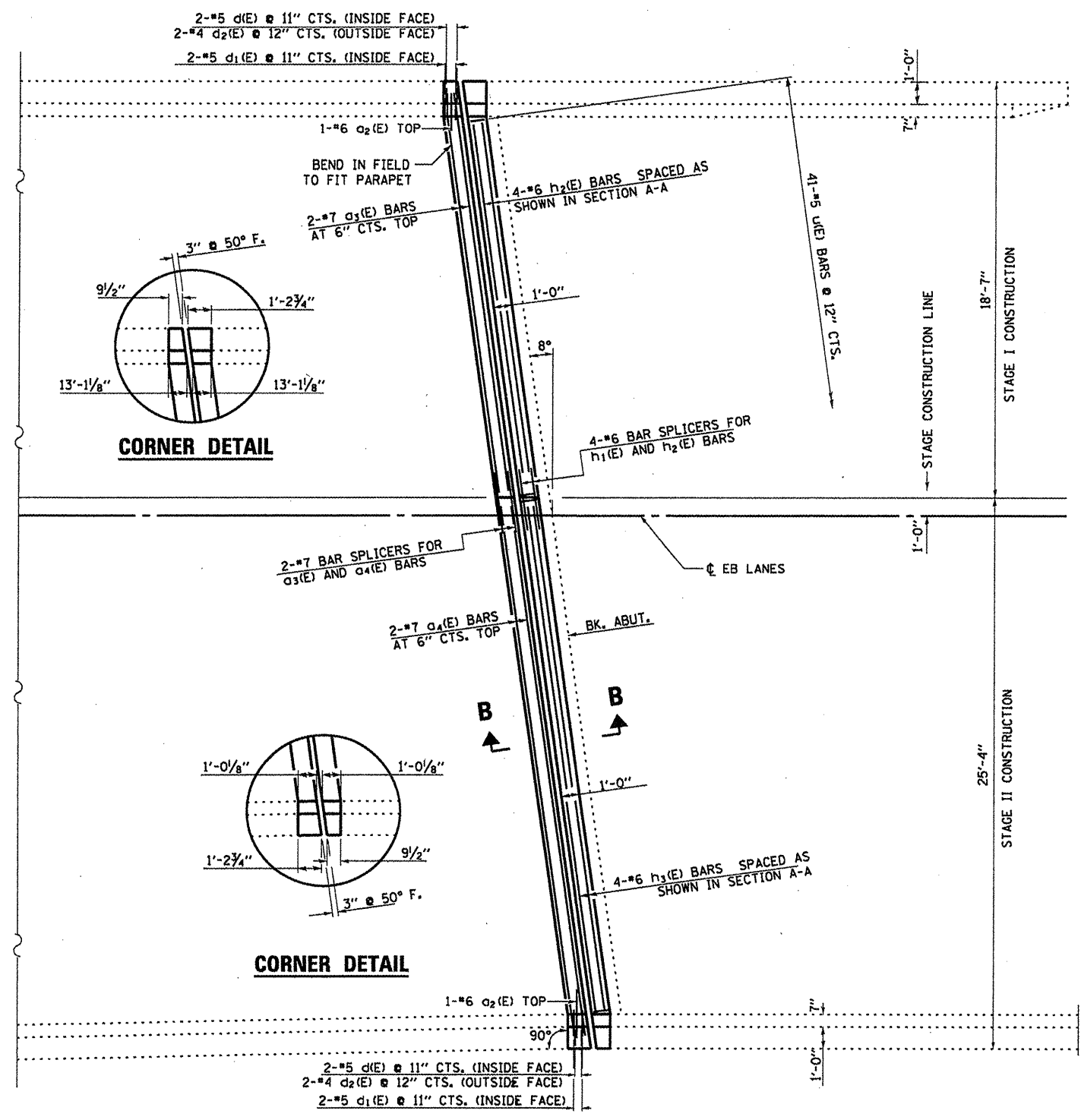
SUPERSTRUCTURE DETAILS - REMOVAL
FOR SN 050-0220 (E.B.)

SCALE: SHEET 3 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	14
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



PLAN AT WEST ABUTMENT



PLAN AT EAST ABUTMENT

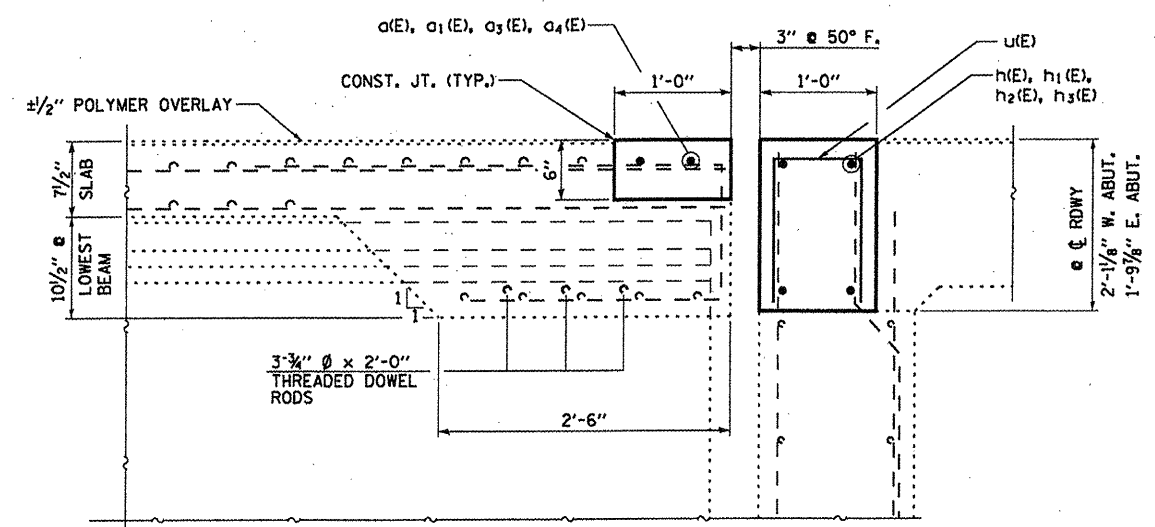
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PLOT DATE = 2/16/2012		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

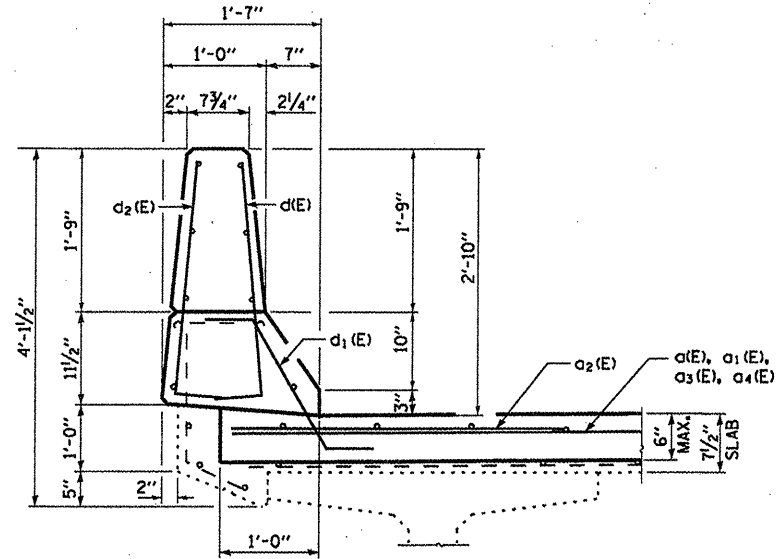
SUPERSTRUCTURE PLAN - CONSTRUCTION
FOR SN 050-0220 (E.B.)

SCALE: SHEET 4 OF 9 SHEETS STA. 663+98.20 TO STA. 674+40.66

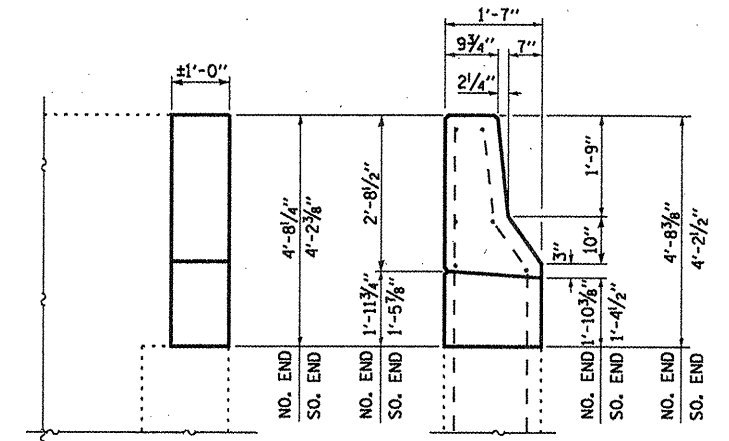
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	15
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



SECTION B-B

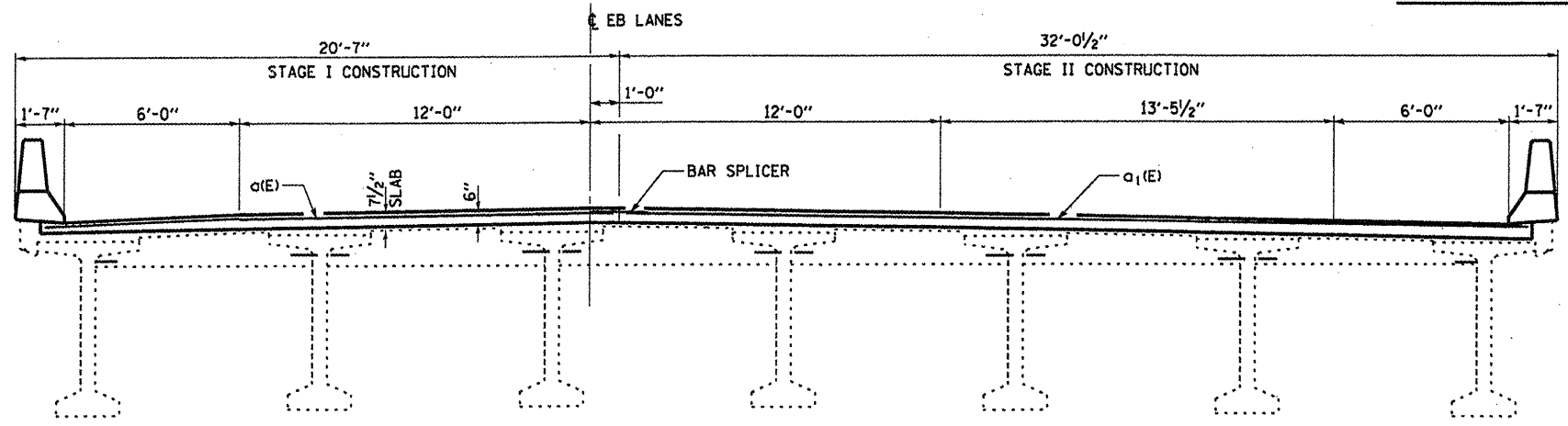


SECTION AT CURB



ELEVATION END ELEVATION

W. ABUT. WINGWALL

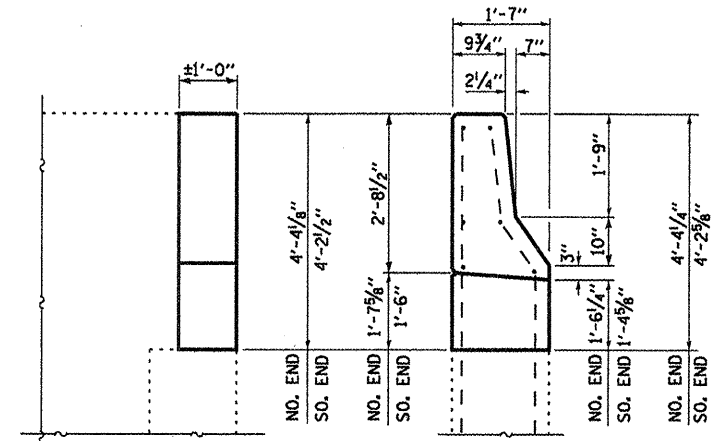


CROSS SECTION AT WEST ABUTMENT

LOOKING EAST

MEASUREMENTS ARE AT RIGHT ANGLES TO CENTERLINE

BAR LAP
#6 3'-1"
#7 4'-2"

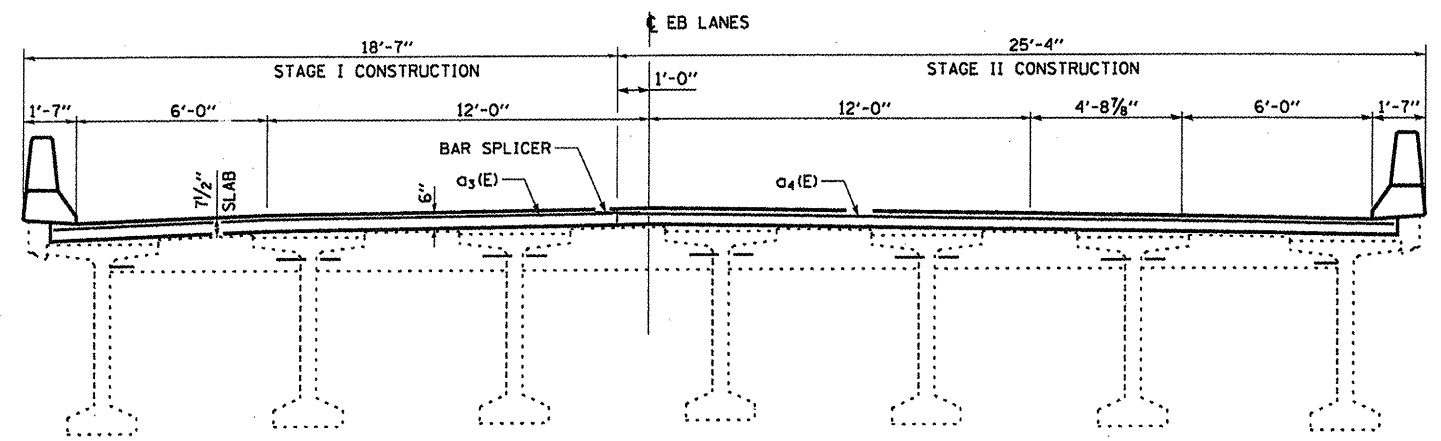


ELEVATION END ELEVATION

E. ABUT. WINGWALL

BILL OF MATERIAL FOR EB STRUCTURE

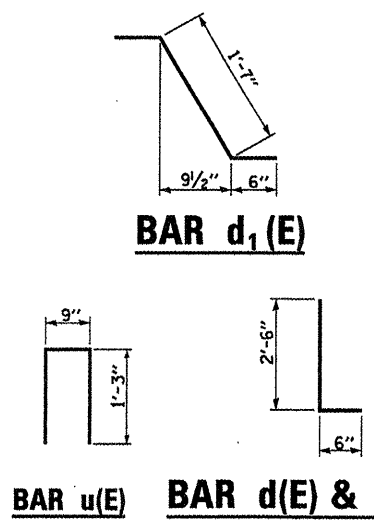
BAR	NO. BARS	SIZE	LENGTH	SHAPE
alpha(E)	2	7	19'-10"	—
alpha1(E)	2	7	31'-4"	—
alpha2(E)	4	6	4'-0"	—
alpha3(E)	2	7	17'-10"	—
alpha4(E)	2	7	24'-8"	—
d(E)	8	5	3'-0"	—
d1(E)	8	5	2'-7"	—
d2(E)	8	4	3'-0"	—
h(E)	4	6	18'-10"	—
h1(E)	4	6	30'-5"	—
h2(E)	4	6	16'-10"	—
h3(E)	4	6	23'-7"	—
u(E)	9	5	3'-3"	—
CONCRETE REMOVAL			CU YD	10.2
CONCRETE SUPERSTRUCTURE			CU YD	10.2
REINFORCEMENT BARS			POUND	1320
EPOXY COATED				



CROSS SECTION AT EAST ABUTMENT

LOOKING EAST

MEASUREMENTS ARE AT RIGHT ANGLES TO CENTERLINE



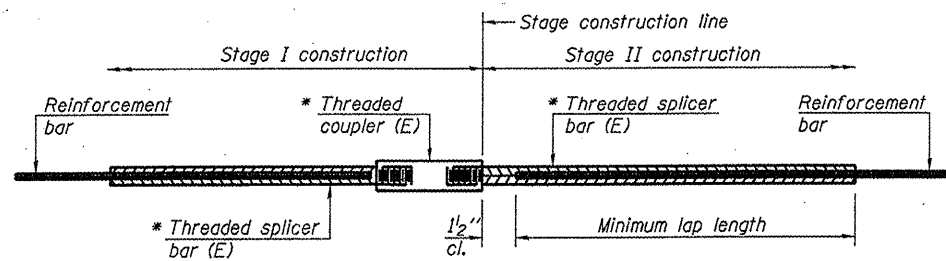
BAR u(E) BAR d(E) & d2(E)

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PLOT DATE = 2/16/2012		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE PLAN - CONSTRUCTION
FOR SN 050-0220 (E.B.)**
SCALE: SHEET 5 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

F.A.L. RTE. 80	SECTION (50-2BR)1	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 16
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

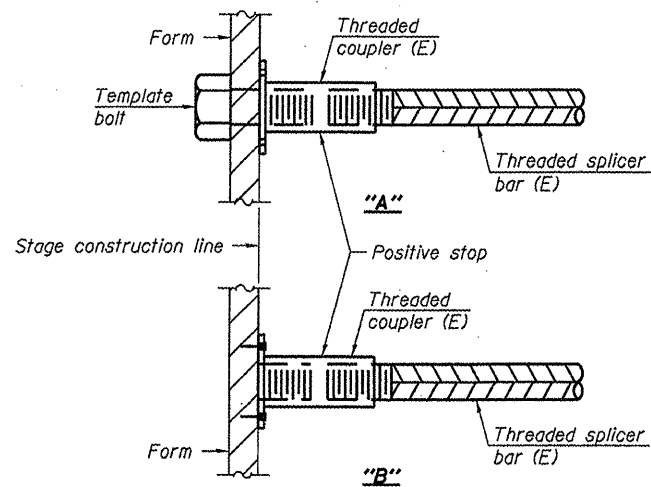
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

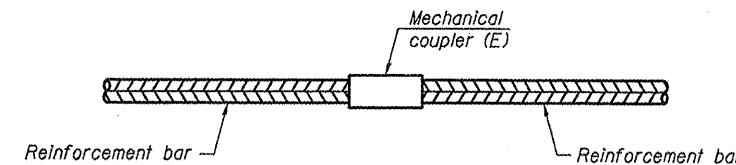
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
W. Abut. Deck	#7	2	Table 3
W. Abut. Hatch Block	#6	4	Table 3
E. Abut. Deck	#7	2	Table 3
E. Abut. Hatch Block	#6	4	Table 3



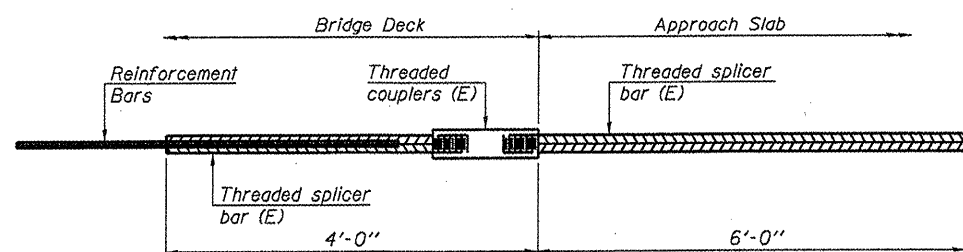
INSTALLATION AND SETTING METHODS

"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.



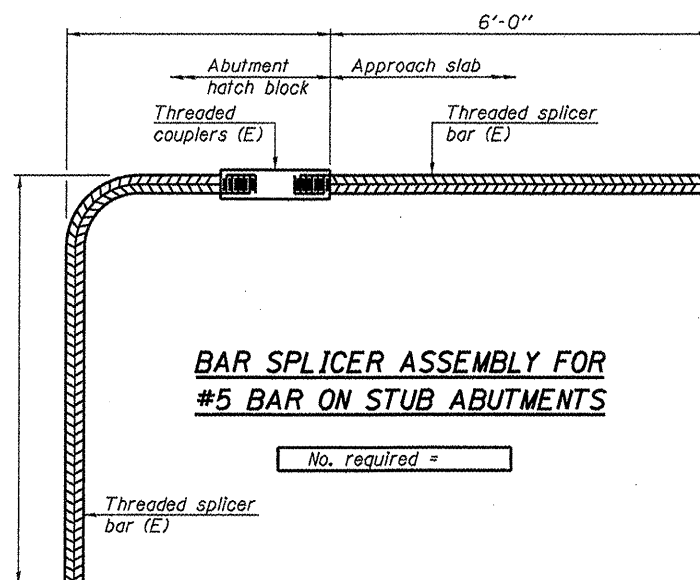
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. 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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 7-1-10

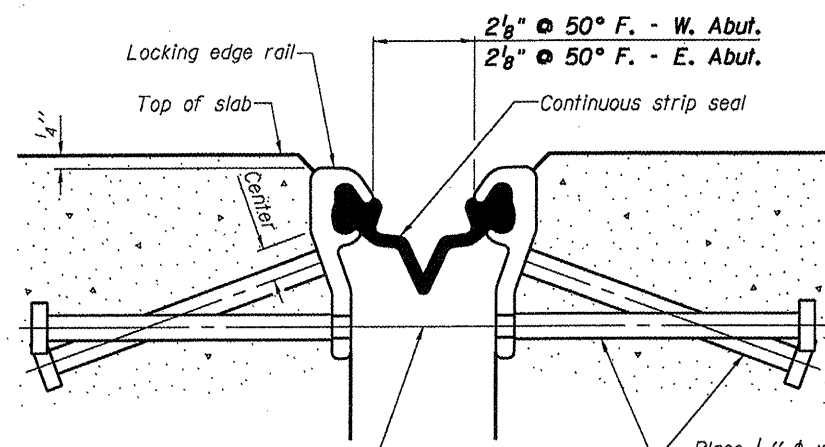
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BAR SPLICER & MECHANICAL SPLICER
DETAILS FOR SN 050-0220 (E.B.)**

SCALE: SHEET 6 OF 9 SHEETS | STA. 669+98.20 TO STA. 674+40.66

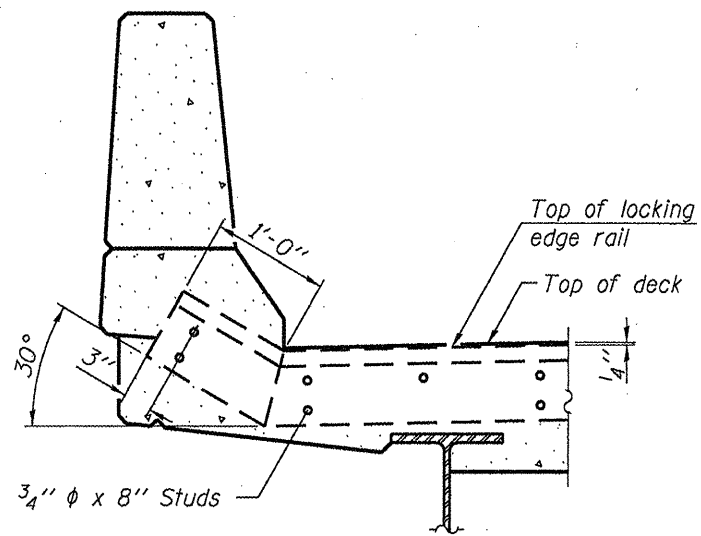
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(60-2BR)	LASALLE	29	17
CONTRACT NO. 66889			ILLINOIS FED. AID PROJECT	



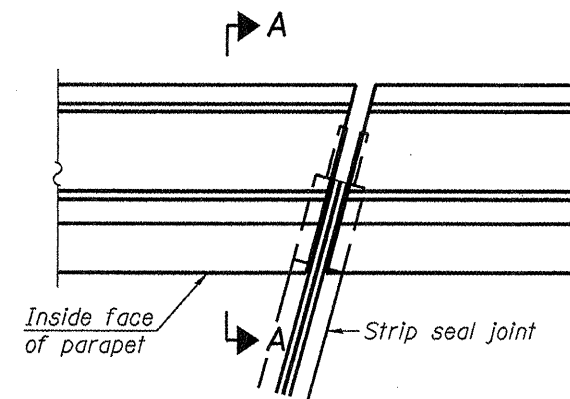
7/16" φ holes at 4'-0" cts. for 3/8" φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2" φ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS



SECTION A-A



PLAN
(For skews ≤ 30°)

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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

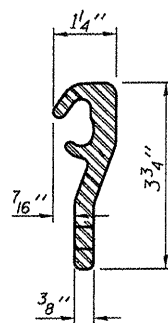
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet.

Required modifications shall be made at no additional cost to the State.

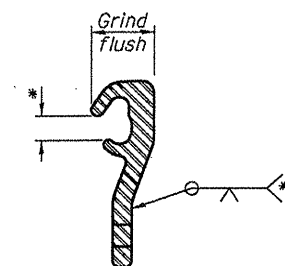
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

*Omit weld at seal opening.

STRIP SEAL EXPANSION JOINT AT WEST ABUTMENT

BILL OF MATERIAL WEST ABUTMENT

Item	Unit	Total
Preformed Joint Strip Seal	Foot	52

BILL OF MATERIAL EAST ABUTMENT

Item	Unit	Total
Preformed Joint Strip Seal	Foot	43

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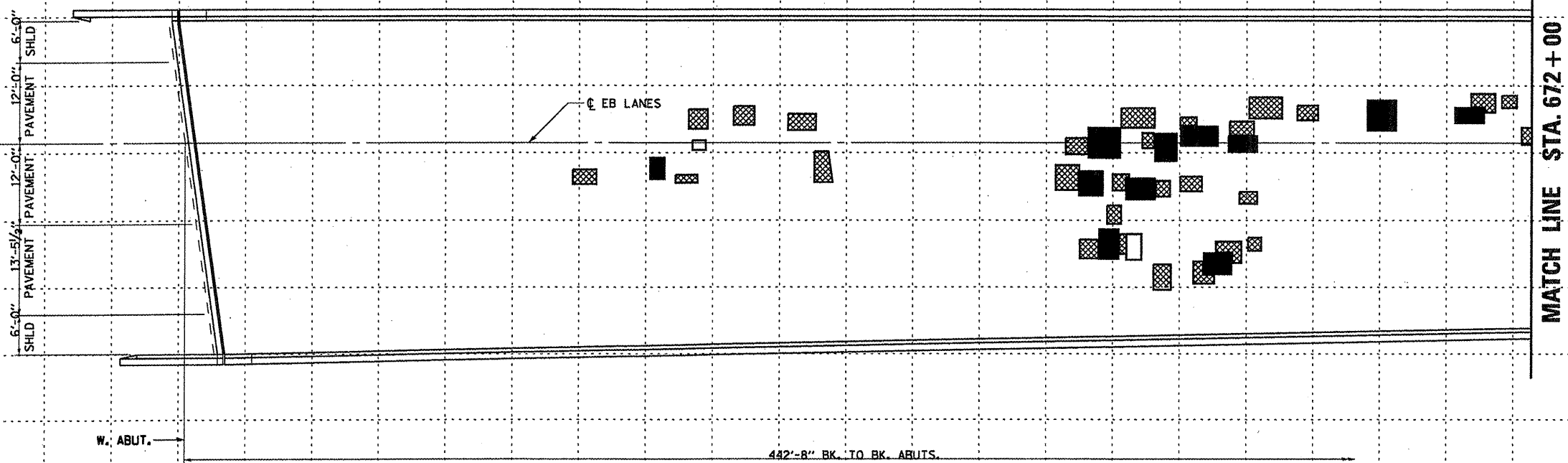
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRIP SEAL EXPANSION JOINT DETAILS FOR SN 050-0220 (E.B.)

SCALE: SHEET 7 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

F.A.I. RTE. 80	SECTION (50-2BR)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 18
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				

(EB) TRAFFIC FLOW



MATCH LINE STA. 672+00

MATCH LINE STA. 672+00

W. ABUT.

442'-8" BK. TO BK. ABUTS.




☉ EB LANES

6'-0" SHOULDER
12'-0" PAVEMENT
12'-0" PAVEMENT
6'-0" SHOULDER

E. ABUT.

442'-8" BK. TO BK. ABUTS.

LEGEND

-  PARTIAL DEPTH
-  FULL DEPTH, TYPE I
-  FULL DEPTH, TYPE II

NOTE:
DECK SLAB REPAIR AREAS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SOUND THE ENTIRE DECK AREA AT TIME OF CONSTRUCTION TO DETERMINE EXACT LOCATIONS AND AREAS OF REPAIRS. AREAS OF ACTUAL REPAIRS SHALL BE SHOWN ON THE "AS-BUILT" PLANS.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	51
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	47

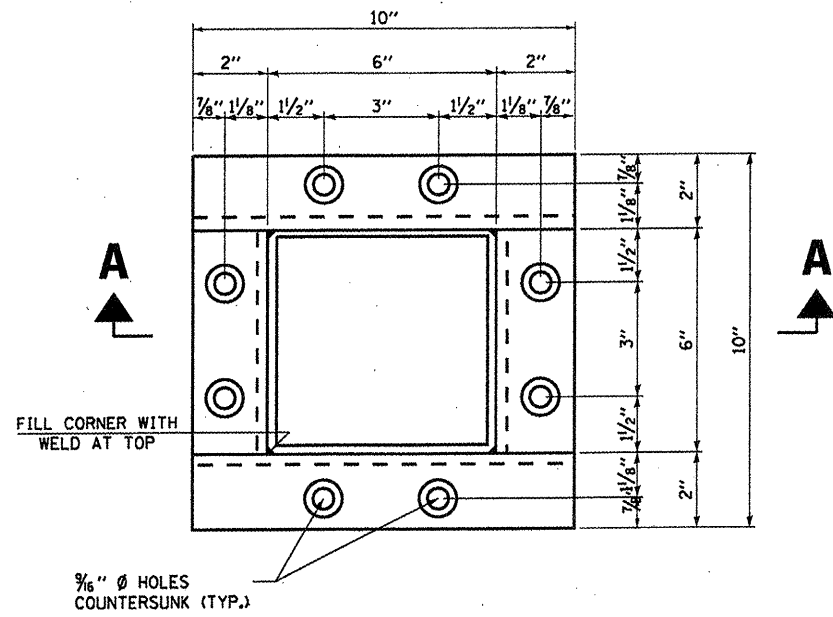
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**DECK SLAB REPAIR SURVEY
FOR SN 050-0220 (EB)**

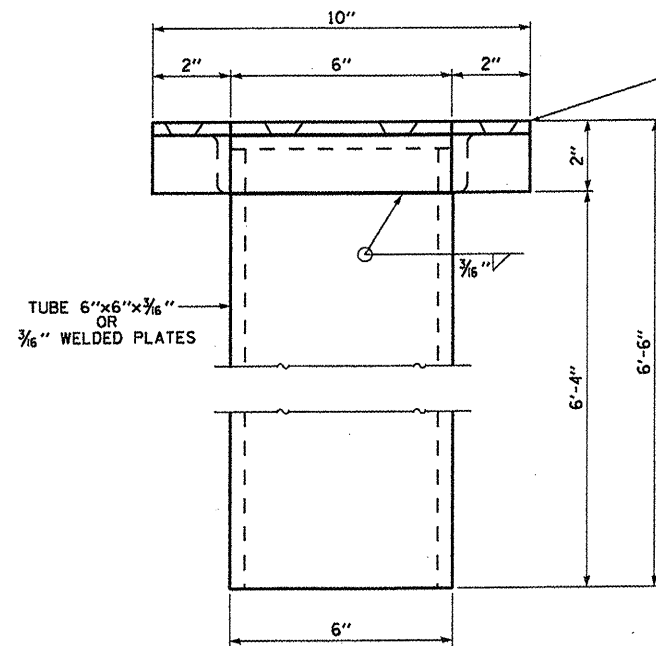
SCALE: SHEET 8 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	19
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				

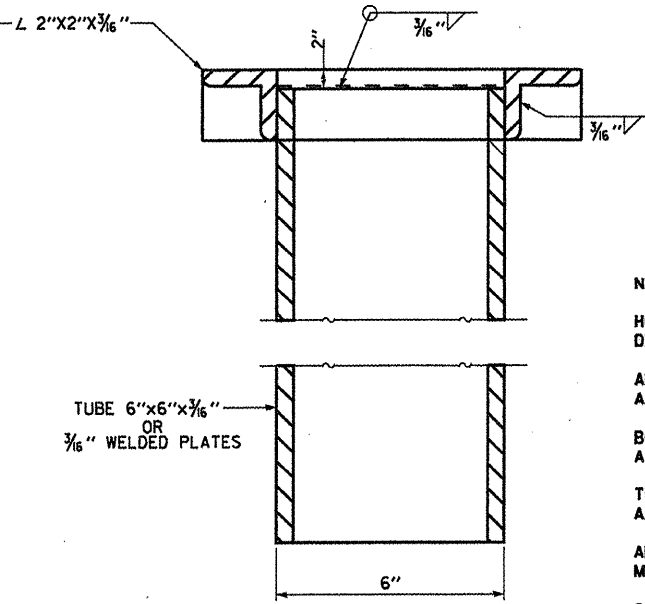


FILL CORNER WITH WELD AT TOP

3/16" Ø HOLES COUNTERSUNK (TYP.)



DOWNSPOUT



SECTION A-A

NOTES:

HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION A-500 GRADE B, OR A-501 STRUCTURAL STEEL TUBING.

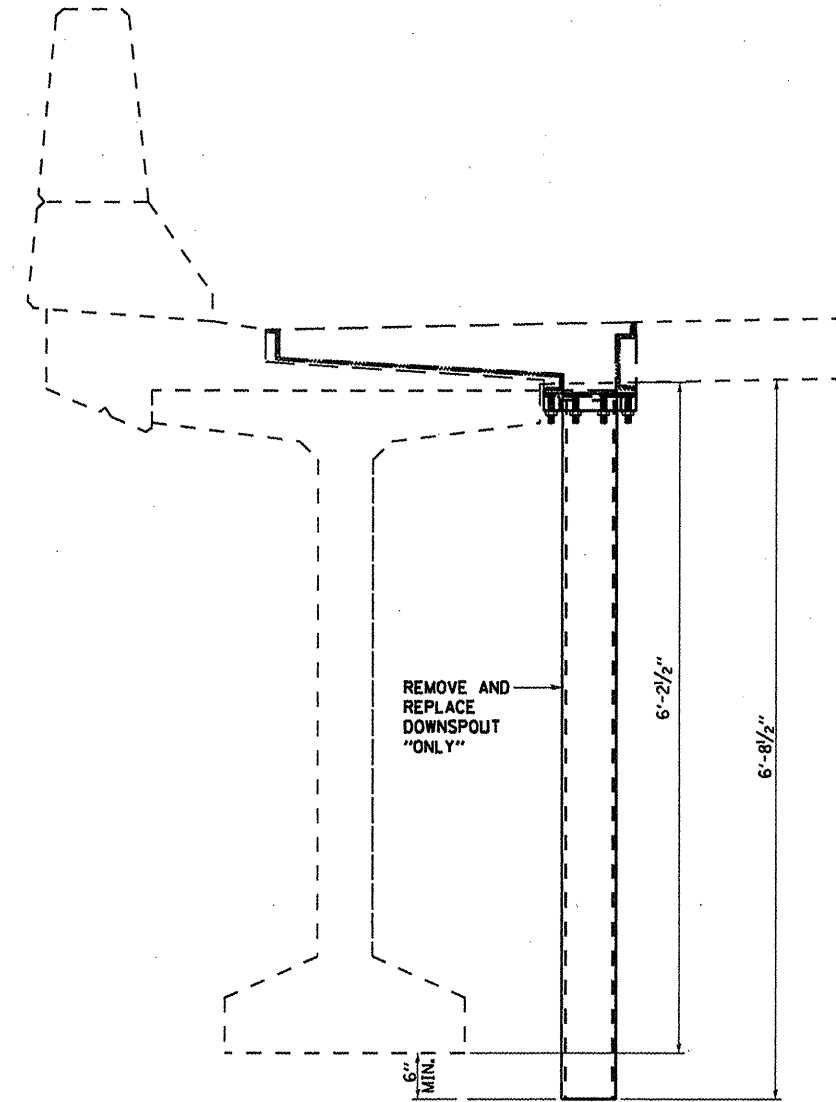
ALL OTHER SHAPES, PLATES AND BARS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. M183.

BOLTS, STUDS, WASHERS AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-307.

THE DOWNSPOUT SHALL BE GALVANIZED AFTER SHOP FABRICATION IN ACCORDANCE WITH A.A.S.H.T.O. M-111 & A.S.T.M. A-385.

ALL BOLTS, WASHERS AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH A.A.S.H.T.O. M 232.

COST OF THE DOWNSPOUT, BOLTS, WASHERS AND NUTS INCLUDING COMPLETE INSTALLATION SHALL BE PAID FOR AS "FLOOR DRAIN EXTENSION".



SECTION AT CURB

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
FLOOR DRAIN EXTENSION	EACH	1

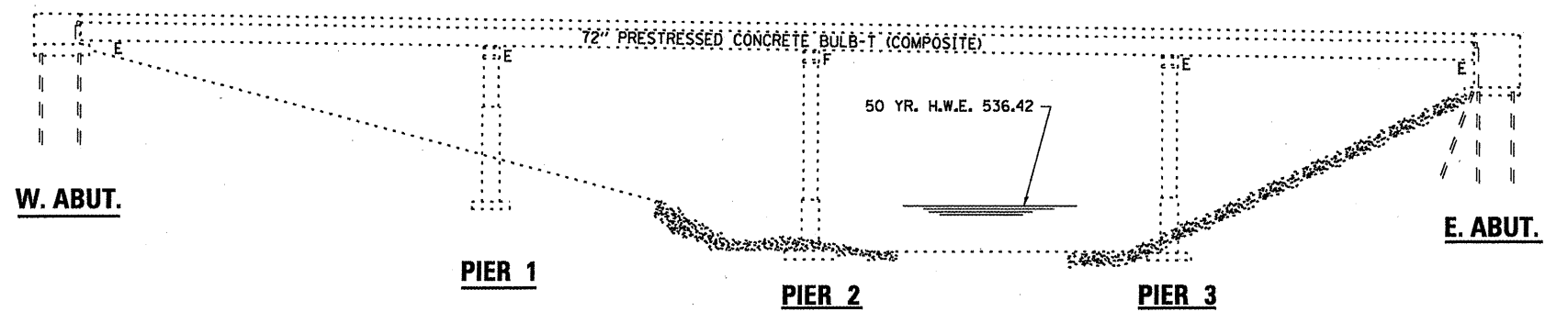
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

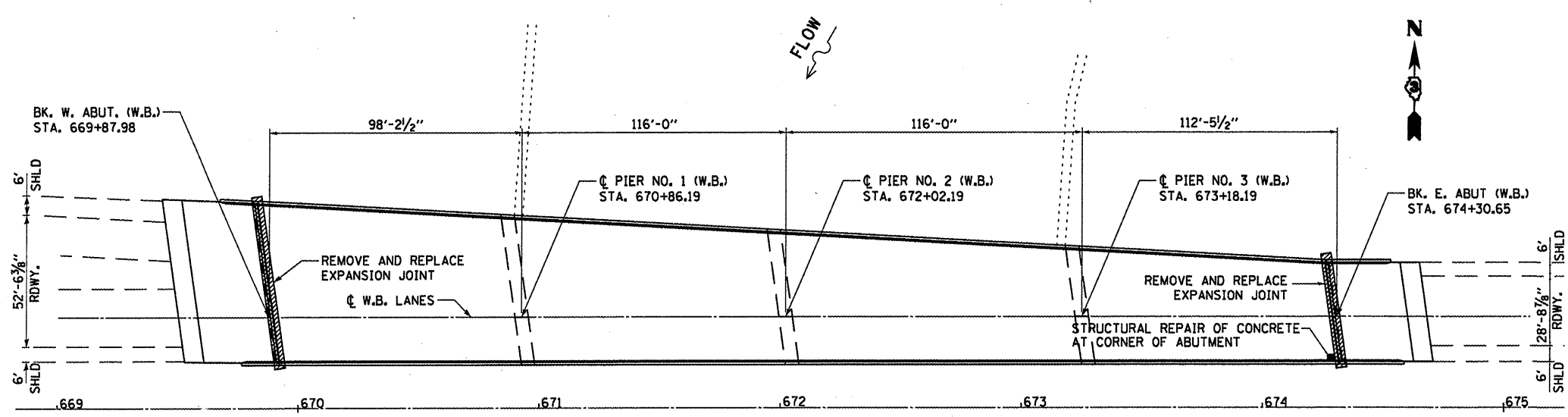
**FLOOR DRAIN EXTENSION DETAILS
FOR SN 050-0220 (E.B.)**

SCALE: SHEET 9 OF 9 SHEETS STA. 669+98.20 TO STA. 674+40.66

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)I	LASALLE	29	20
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



**ELEVATION
LOOKING NORTH**



PLAN

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.

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

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

COST OF REMOVAL AND RE-INSTALLATION OF ALL MEMBERS NECESSARY TO COMPLETE THE WORK AS DETAILED ON THE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS SHALL BE INCLUDED WITH THE PAY ITEM REQUIRING THIS WORK.

JOINT PLATES AND ATTACHED BARS SHALL BE SHOP PAINTED WITH THE INORGANIC ZINC RICH PRIMER. NO FIELD PAINT REQUIRED.

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

THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE PPC BULB T-BEAMS.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.

**TOTAL BILL OF MATERIAL
WB STRUCTURE**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	11.2
CONCRETE SUPERSTRUCTURE	CU YD	11.2
REINFORCEMENT BARS EPOXY COATED	POUND	1550
BAR SPLICERS	EACH	12
PREFORMED JOINT STRIP SEAL	FOOT	110
DECK SLAB REPAIR (PARTIAL)	SQ YD	25
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	8
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	63
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	19



David Carl Puzey 3/15/12
Expires 11/30/12

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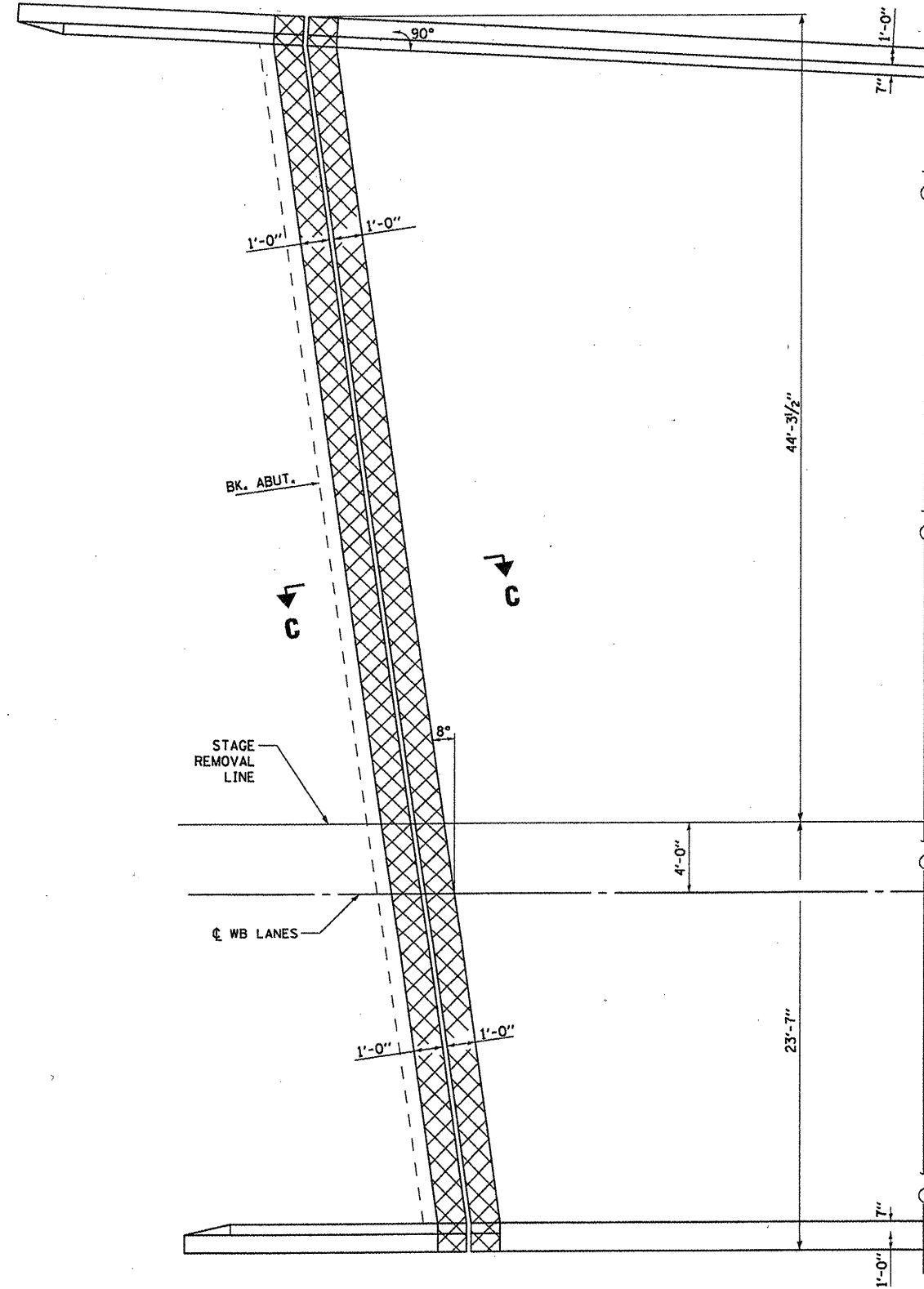
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**GENERAL PLAN AND ELEVATION
FOR STRUCTURE NO. 050-0221 (WB)**

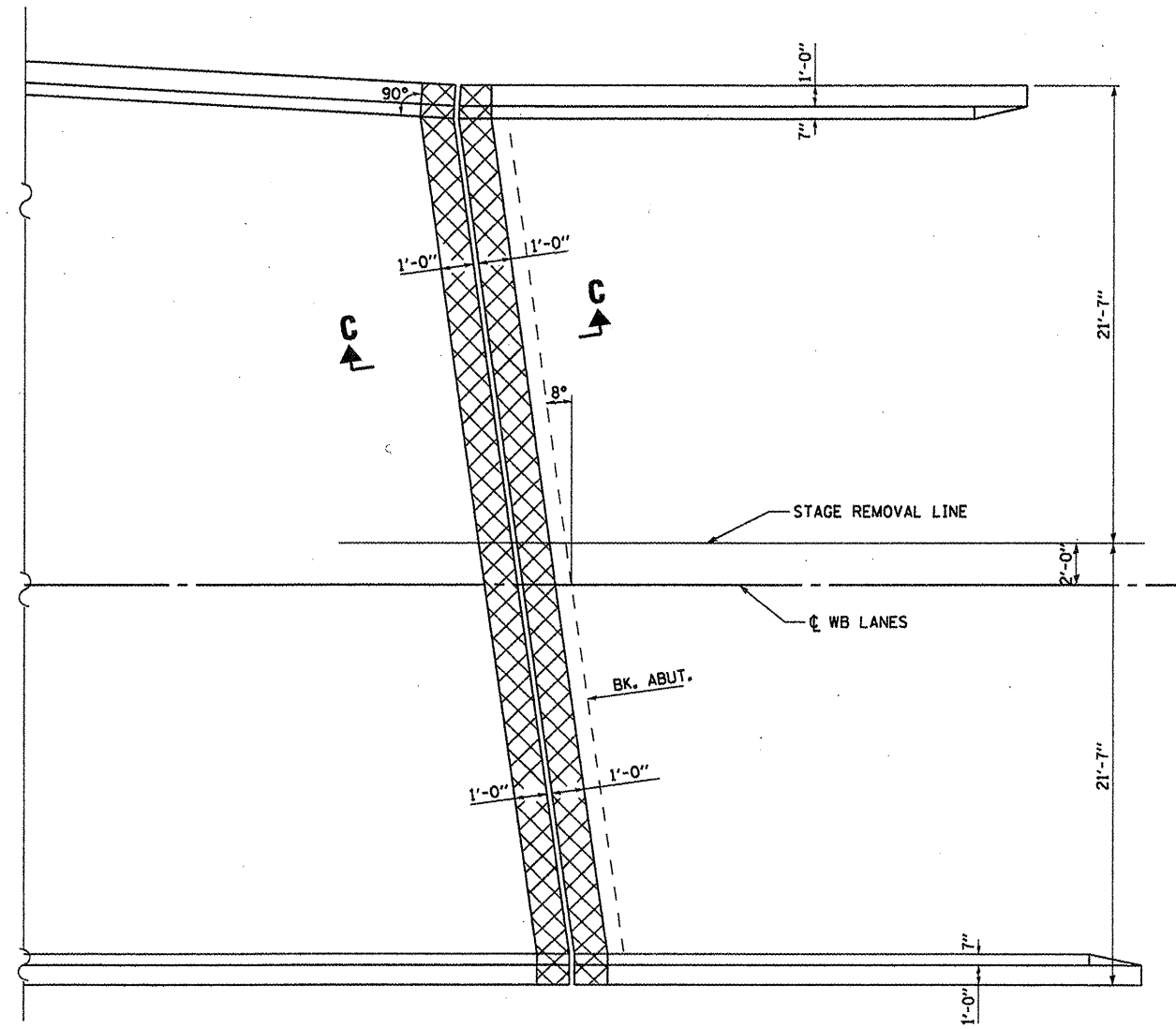
SCALE: SHEET 1 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR1)	LASALLE	29	21
CONTRACT NO. 66889				

ILLINOIS FED. AID PROJECT



PLAN AT WEST ABUTMENT



PLAN AT EAST ABUTMENT



CONCRETE REMOVAL

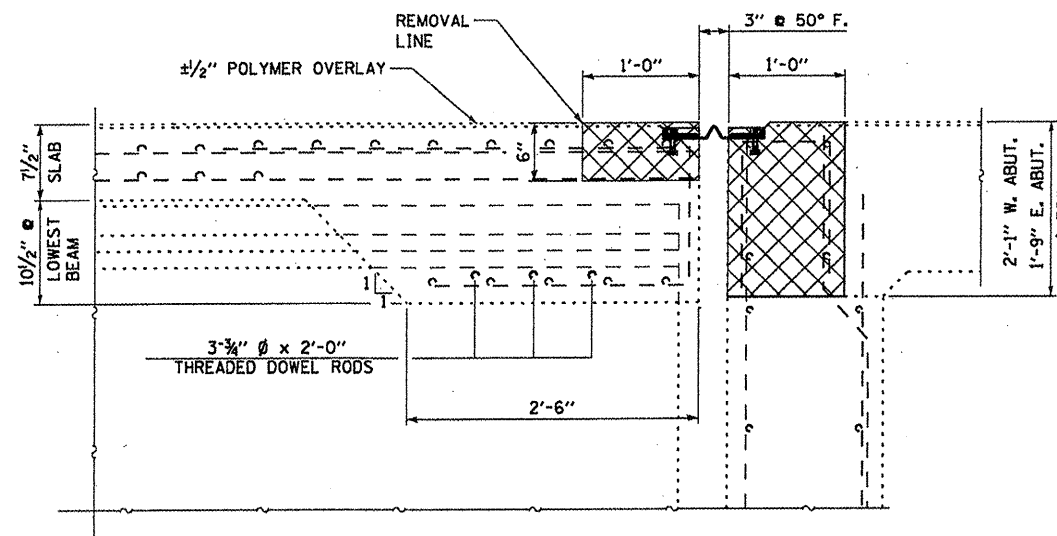
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

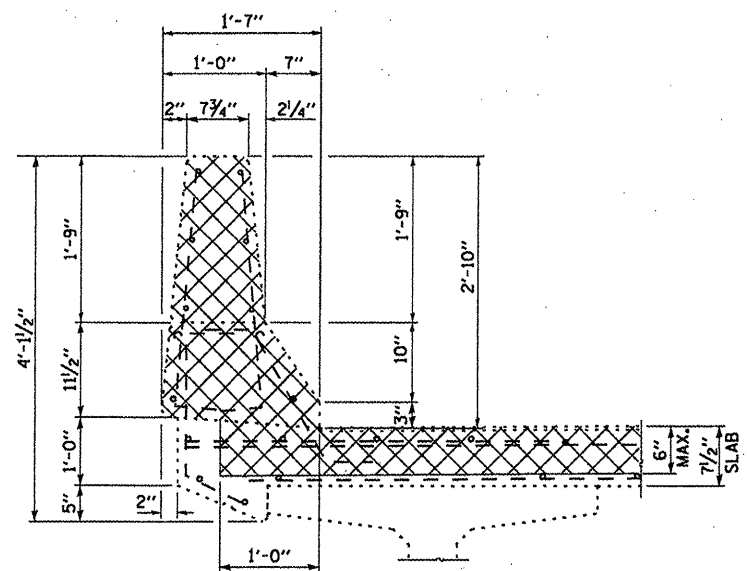
**SUPERSTRUCTURE PLAN - REMOVAL
FOR SN 050-0221 (W.B.)**

SCALE: SHEET 2 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

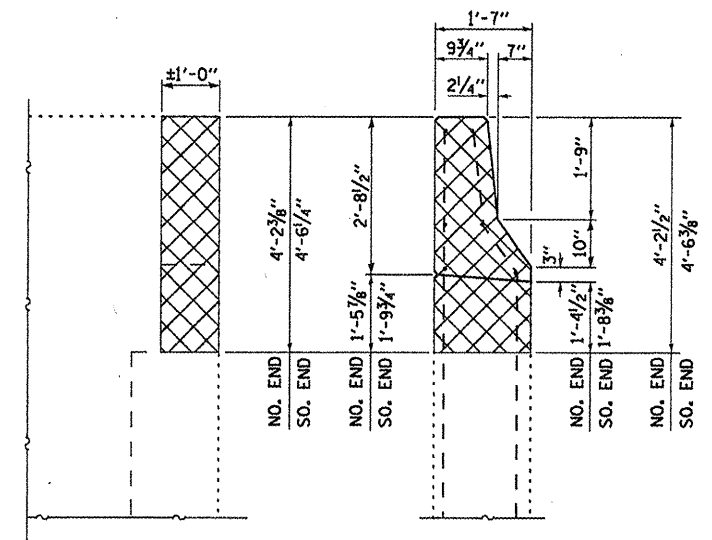
F.A.L. RTE. 80	SECTION (50-2BR)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 22
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



SECTION C-C



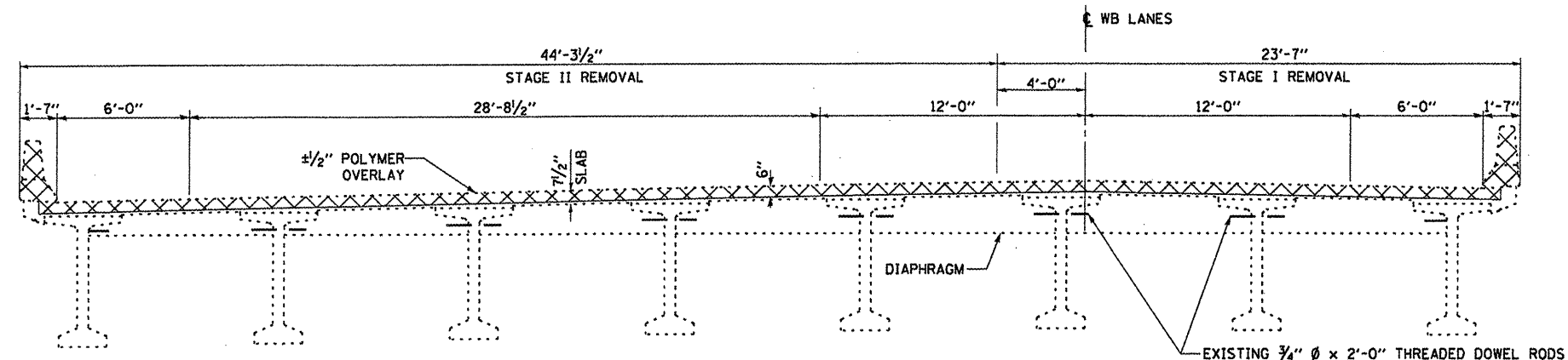
SECTION AT CURB



ELEVATION

END ELEVATION

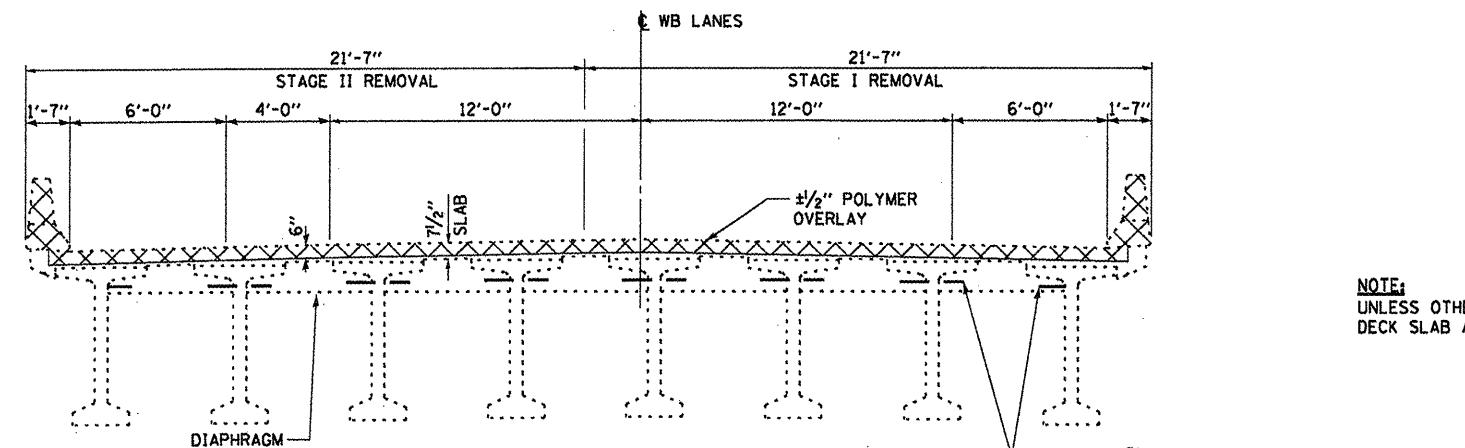
W. ABUT. WINGWALL



CROSS SECTION AT WEST ABUTMENT

LOOKING EAST

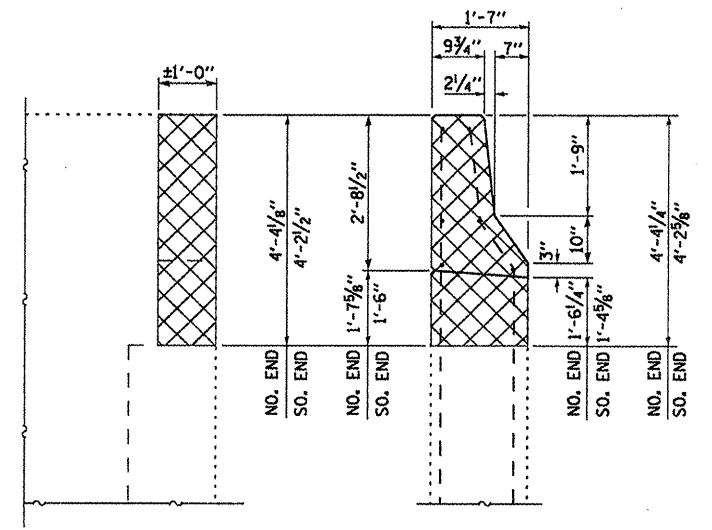
MEASUREMENTS ARE AT RIGHT ANGLES TO CENTERLINE



CROSS SECTION AT EAST ABUTMENT

LOOKING EAST

MEASUREMENTS ARE AT RIGHT ANGLES TO CENTERLINE



ELEVATION

END ELEVATION

E. ABUT. WINGWALL

NOTE:
UNLESS OTHERWISE NOTED, ALL LONGITUDINAL REINFORCEMENT IN THE DECK SLAB AND PARAPETS SHALL BE CUT OFF 6" FROM FACE OF CONCRETE

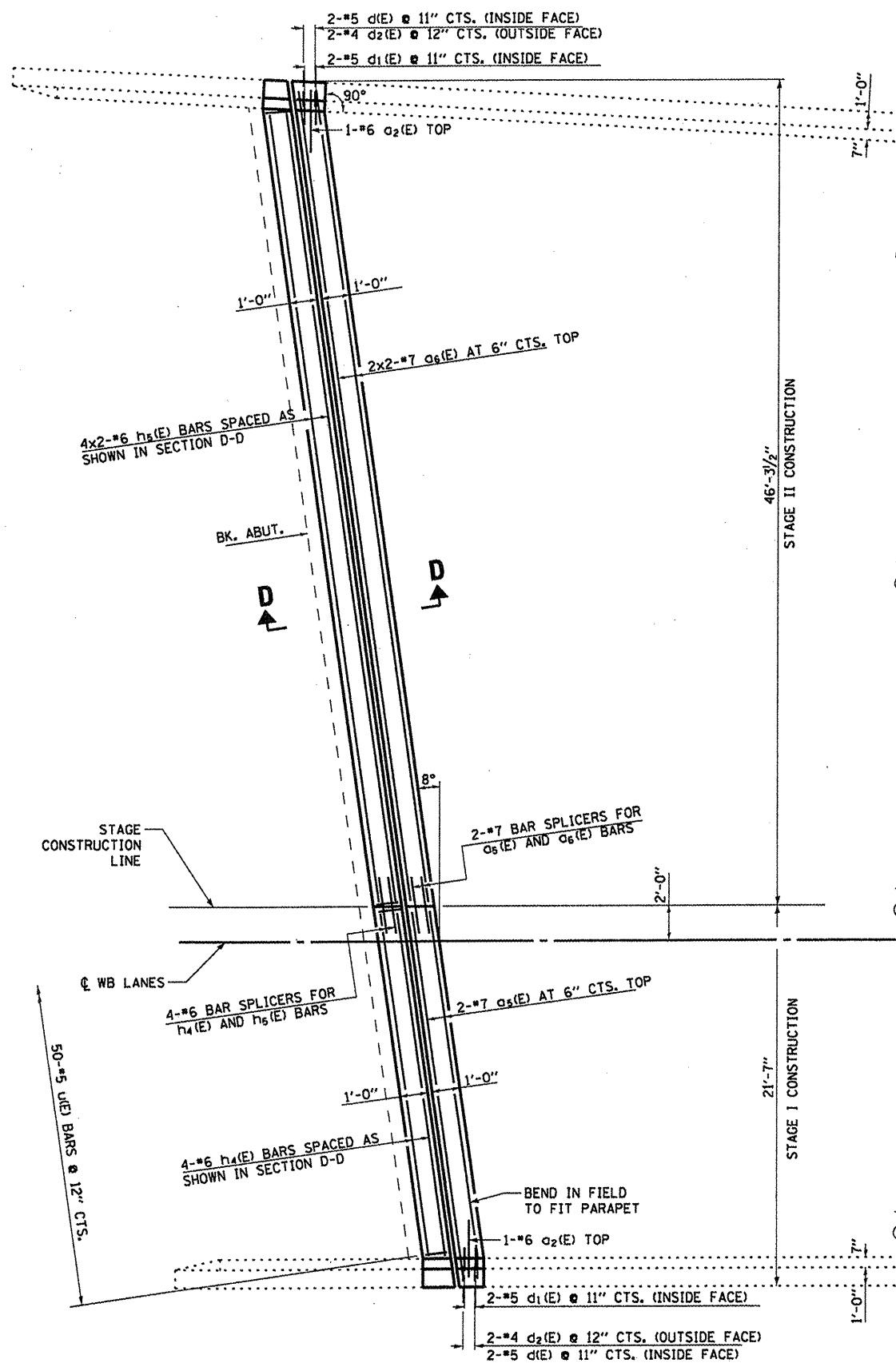
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

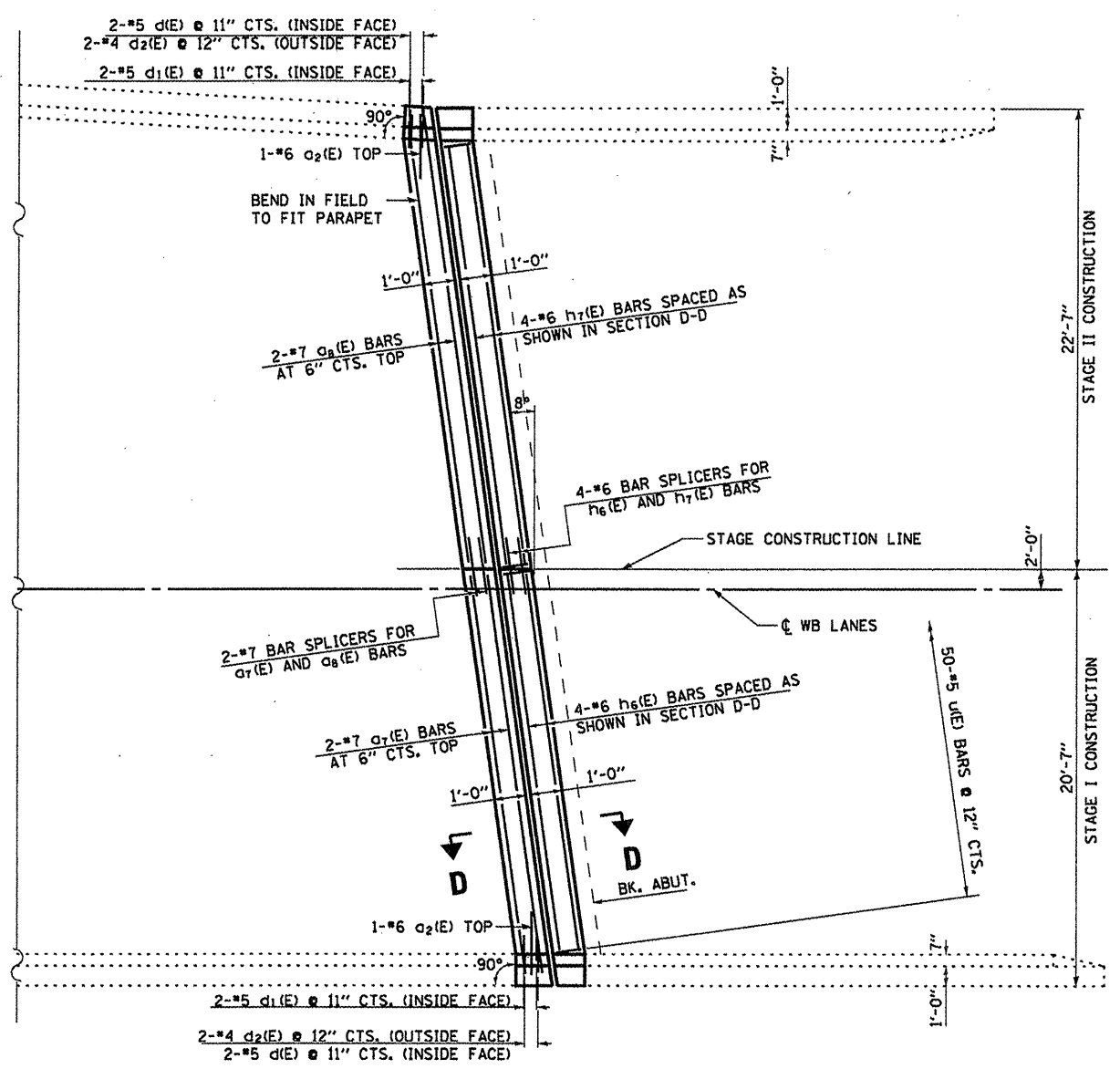
SUPERSTRUCTURE DETAILS - REMOVAL
FOR SN 050-0221 (W.B.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR1)	LASALLE	29	23
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 3 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65



PLAN AT WEST ABUTMENT



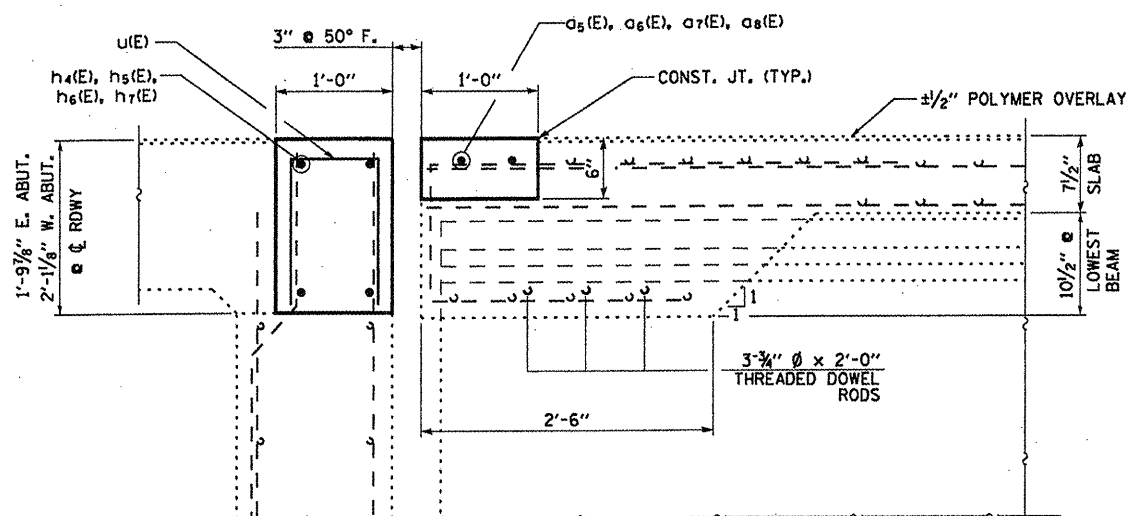
PLAN AT EAST ABUTMENT

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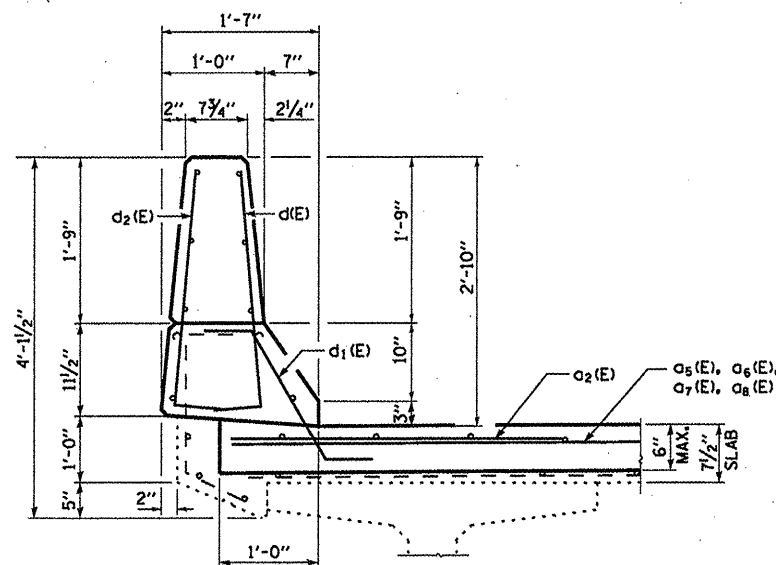
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN - CONSTRUCTION
FOR SN 050-0221 (W.B.)
SCALE: _____ SHEET 4 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

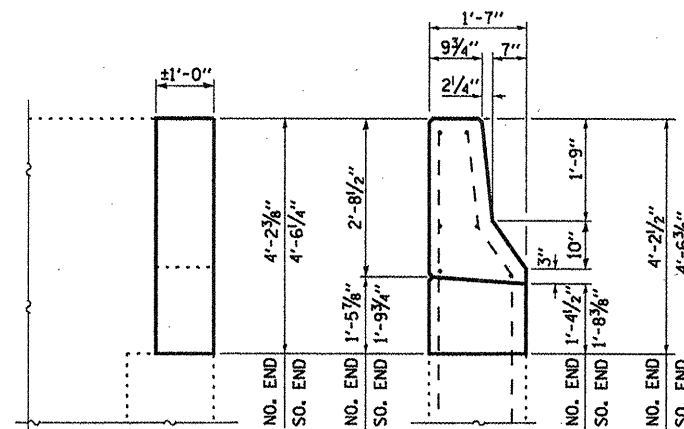
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)1	LASALLE	29	24
			CONTRACT NO. 66889	
ILLINOIS FED. AID PROJECT				



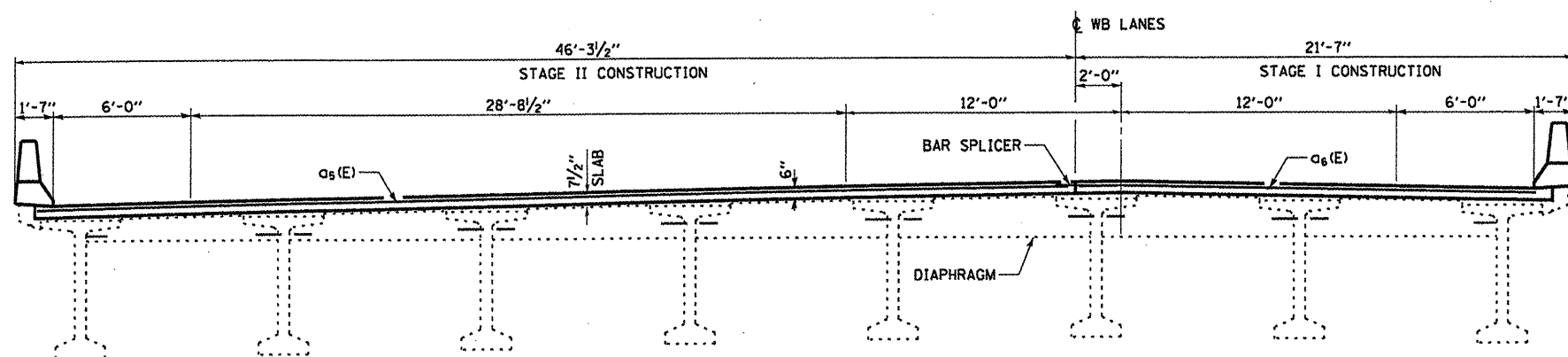
SECTION D-D



SECTION AT CURB

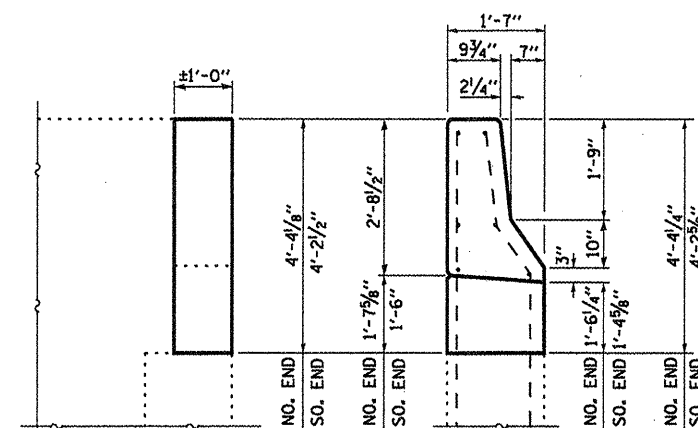


**ELEVATION END ELEVATION
W. ABUT. WINGWALL**

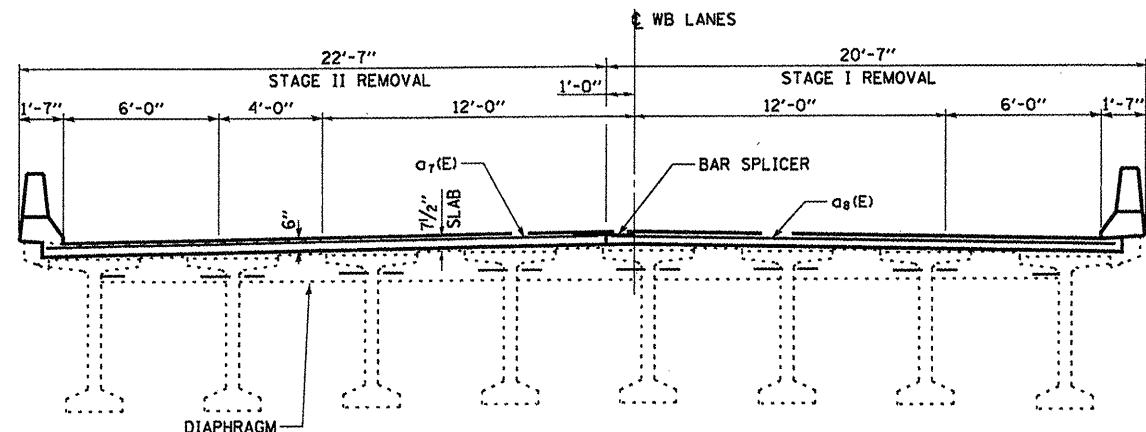


**CROSS SECTION AT WEST ABUTMENT
LOOKING EAST
MEASUREMENTS ARE AT RIGHT L'S TO C RDWY**

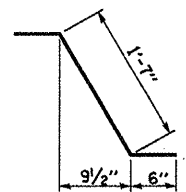
BAR LAP
#6 3'-1"
#7 4'-2"



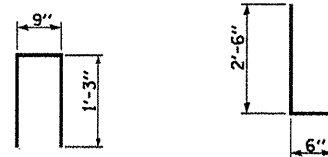
**ELEVATION END ELEVATION
E. ABUT. WINGWALL**



**CROSS SECTION AT EAST ABUTMENT
LOOKING EAST
MEASUREMENTS ARE AT RIGHT L'S TO C RDWY**



BAR d₁(E)



BAR u(E) BAR d(E) & d₂(E)

**BILL OF MATERIAL
FOR EB STRUCTURE**

BAR	NO. BARS	SIZE	LENGTH	SHAPE
a2(E)	4	6	4'-0"	▬▬▬▬
a5(E)	2	7	20'-10"	▬▬▬▬
a6(E)	4	7	24'-10"	▬▬▬▬
a7(E)	2	7	19'-7"	▬▬▬▬
a8(E)	2	7	22'-2"	▬▬▬▬
d1(E)	8	5	3'-0"	▬▬▬▬
d2(E)	8	5	2'-7"	▬▬▬▬
d2(E)	8	4	3'-0"	▬▬▬▬
h4(E)	4	6	19'-10"	▬▬▬▬
h5(E)	8	6	23'-10"	▬▬▬▬
h6(E)	4	6	18'-7"	▬▬▬▬
h7(E)	4	6	21'-1"	▬▬▬▬
u(E)	107	5	3'-3"	▬▬▬▬
CONCRETE REMOVAL			CU YD	11.2
CONCRETE SUPERSTRUCTURE			CU YD	11.2
REINFORCEMENT BARS			POUND	1550
EPOXY COATED				

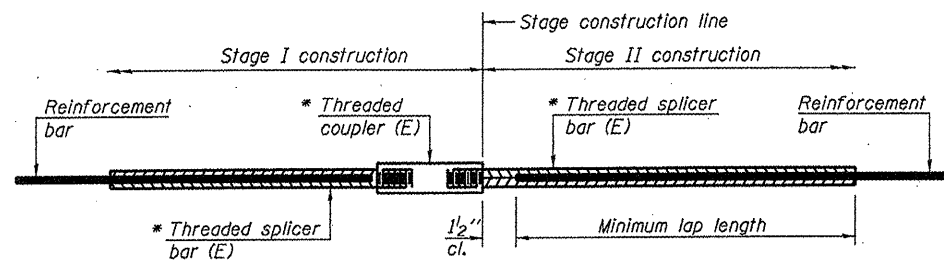
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE PLAN - CONSTRUCTION
FOR SN 050-0221 (W.B.)**

SCALE: SHEET 5 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

F.A.I. RTE. 80	SECTION (50-2BR)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66889	



STANDARD BAR SPLICER ASSEMBLY

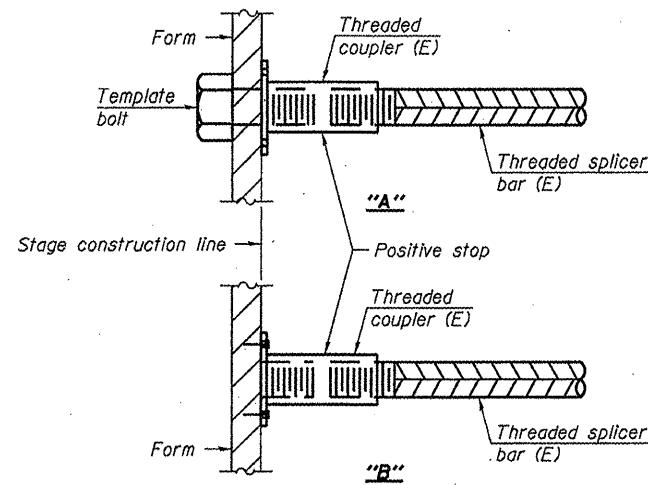
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

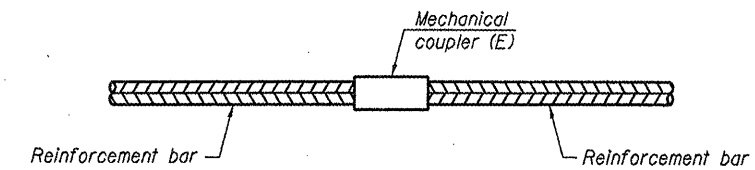
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
W. Abut. Deck	#7	2	Table 3
W. Abut. Hatch Block	#6	4	Table 3
E. Abut. Deck	#7	2	Table 3
E. Abut. Hatch Block	#6	4	Table 3



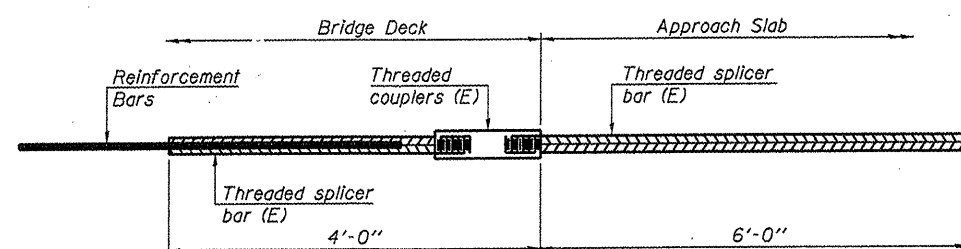
INSTALLATION AND SETTING METHODS

"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.



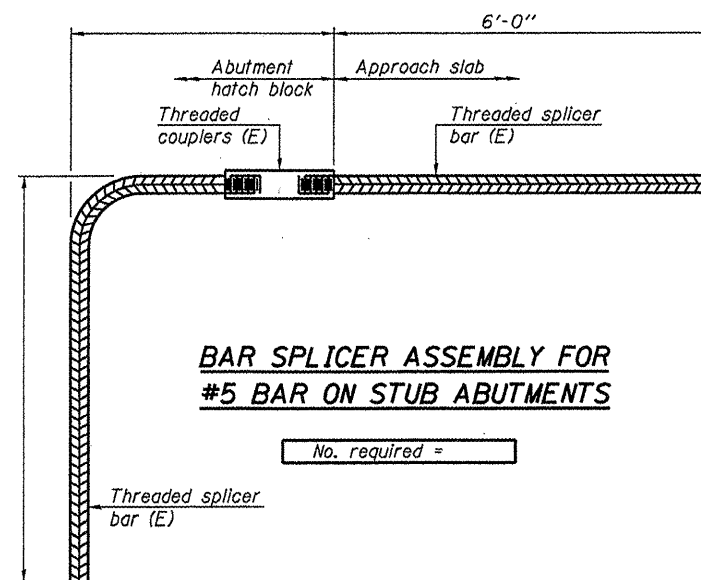
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. 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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

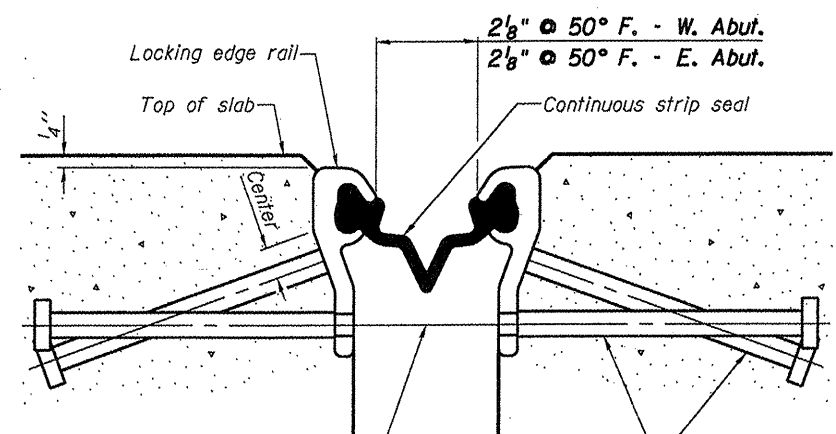
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BAR SPLICER & MECHANICAL SPLICER
DETAILS FOR SN 050-0221 (W.B.)**

SCALE: SHEET 6 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

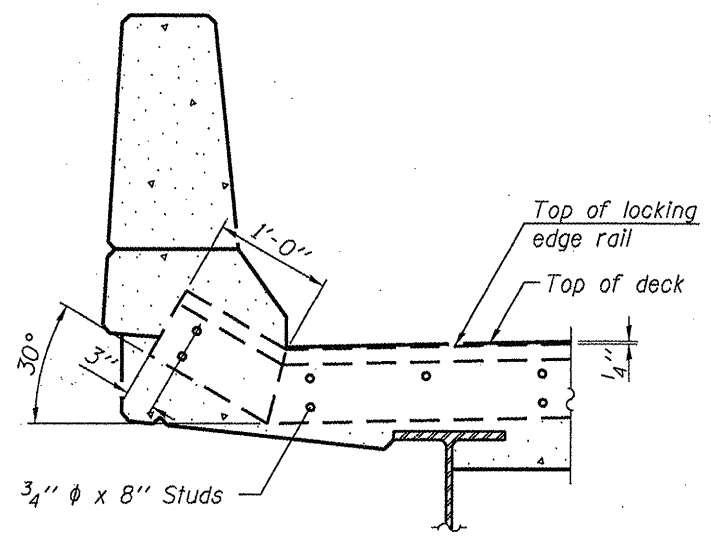
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)1	LASALLE	29	26
CONTRACT NO. 66889				
ILLINOIS FED. AID PROJECT				



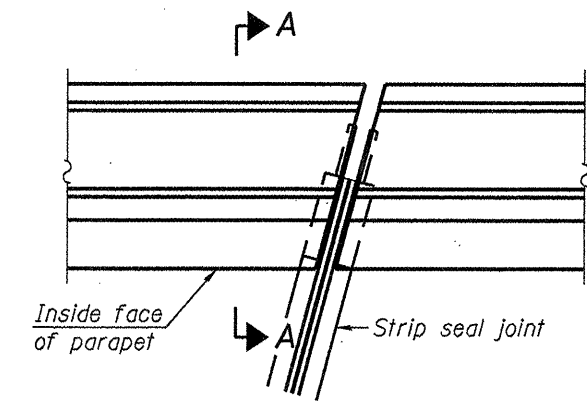
7/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2" Ø x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS



SECTION A-A



PLAN
(For skews ≤ 30°)

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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

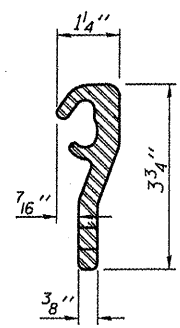
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

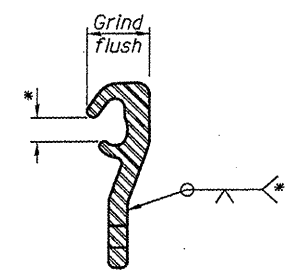
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

*Omit weld at seal opening.

STRIP SEAL EXPANSION JOINT AT WEST ABUTMENT

BILL OF MATERIAL WEST ABUTMENT

Item	Unit	Total
Preformed Joint Strip Seal	Foot	67

BILL OF MATERIAL EAST ABUTMENT

Item	Unit	Total
Preformed Joint Strip Seal	Foot	43

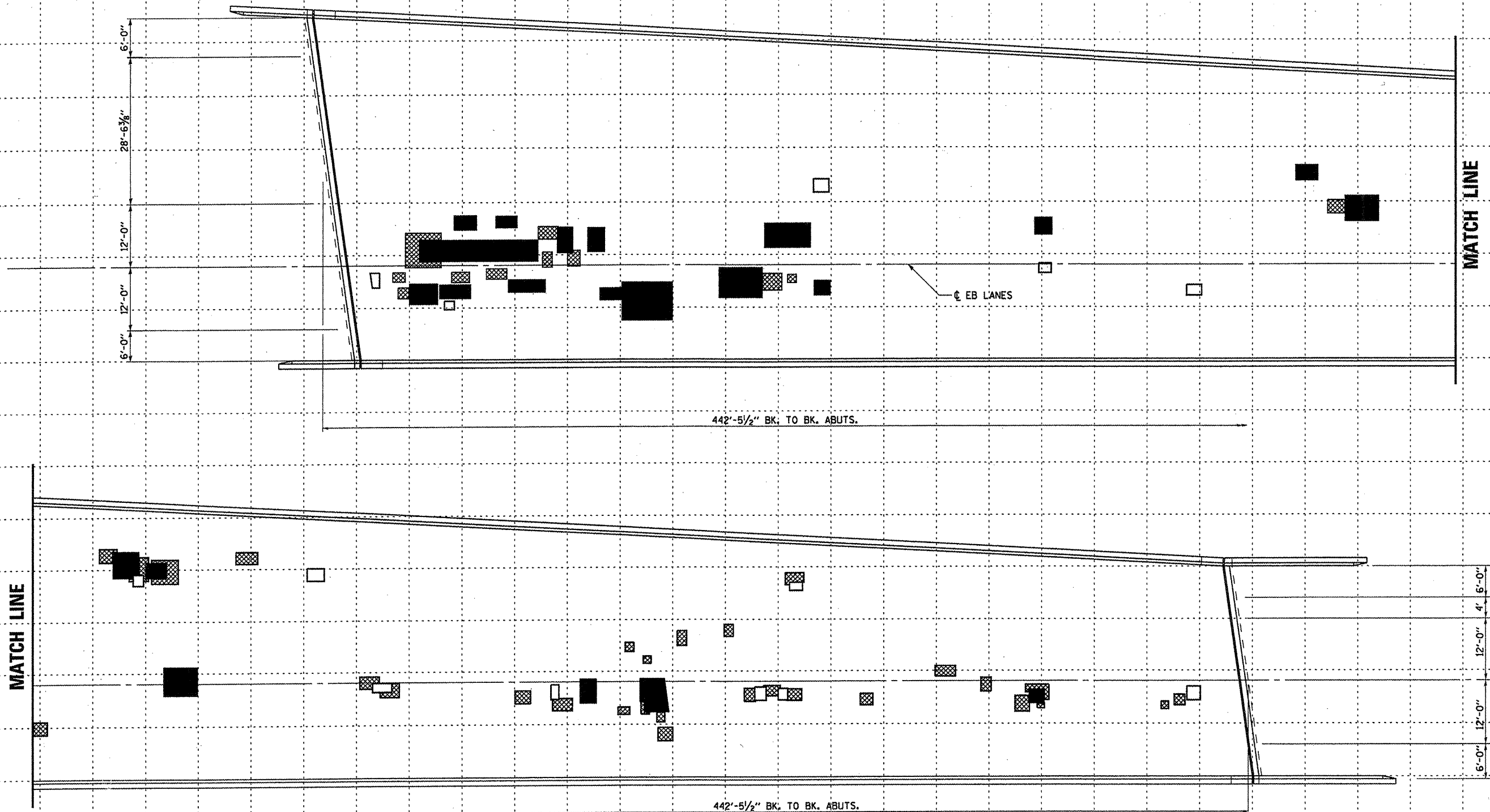
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	PLOT DATE = 2/16/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS FOR SN 050-0221 (W.B.)

SCALE: _____ SHEET 7 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)I	LASALLE	29	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66889	



- LEGEND**
- PARTIAL DEPTH
 - FULL DEPTH, TYPE I
 - FULL DEPTH, TYPE II

(WB) TRAFFIC FLOW

NOTE:
 DECK SLAB REPAIR AREAS SHOWN ARE ESTIMATED.
 THE ENGINEER SHALL SOUND THE ENTIRE DECK AREA
 AT TIME OF CONSTRUCTION TO DETERMINE EXACT
 LOCATIONS AND AREAS OF REPAIRS. AREAS OF ACTUAL
 REPAIRS SHALL BE SHOWN ON THE "AS-BUILT" PLANS.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	25
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	8
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	63

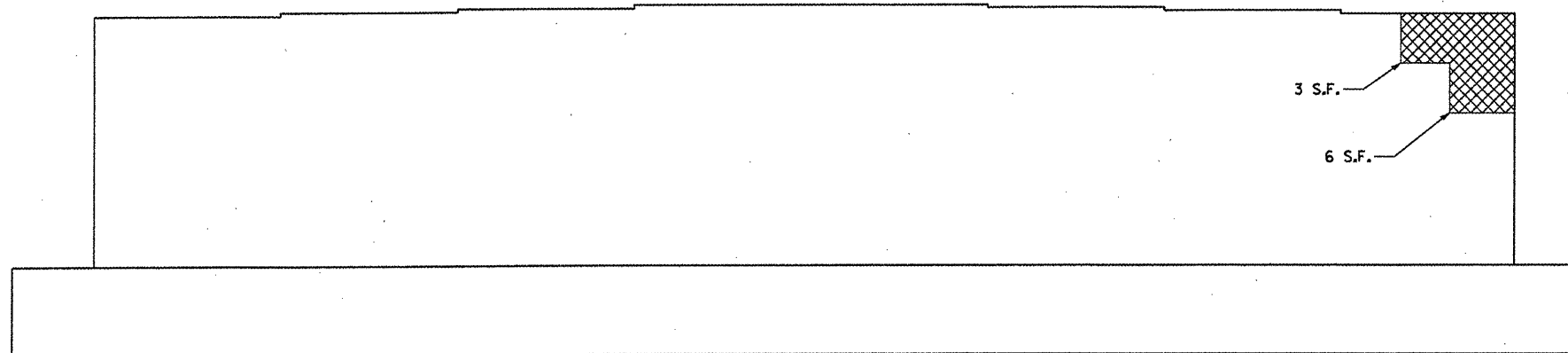
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	PLOT SCALE = 100@ 1" = 100'	CHECKED -	REVISED -
	PLOT DATE = 2/16/2012	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**DECK SLAB REPAIR SURVEY
 FOR SN 050-0221 (WB)**

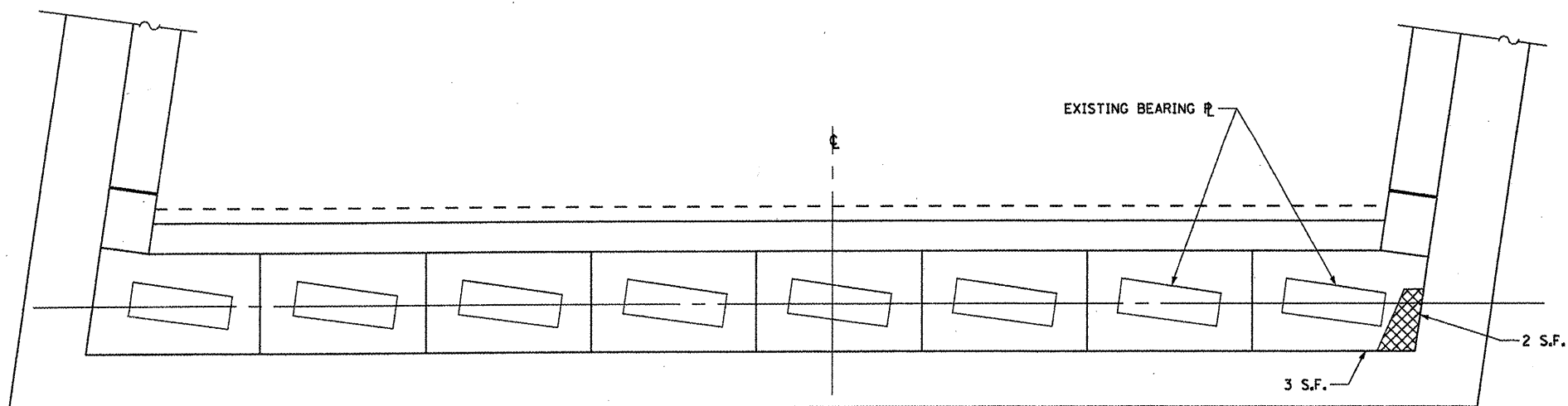
SCALE: _____ SHEET 8 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

F.A.I. RTE. 80	SECTION (50-2BRI)	COUNTY LASALLE	TOTAL SHEETS 29	SHEET NO. 28
ILLINOIS FED. AID PROJECT				CONTRACT NO. 66889

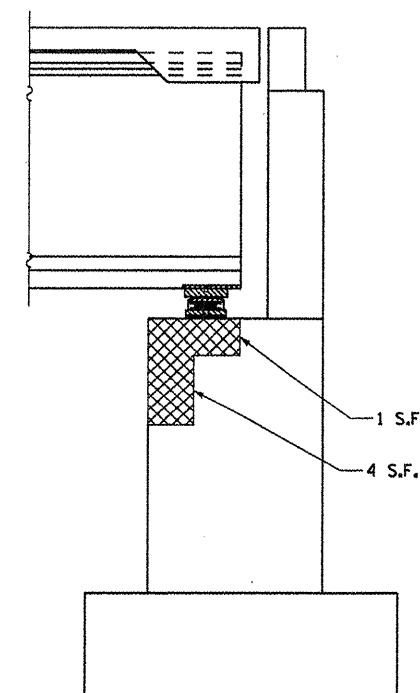


**ELEVATION
LOOKING EAST**

 **STRUCTURAL REPAIR OF CONCRETE
(DEPTH LESS THAN OR EQUAL TO 5")**



PLAN



**ELEVATION
LOOKING NORTH**

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5")	SQ. FT.	19

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	PLOT DATE = 2/16/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT DETAILS
FOR SN 050-0221 (W.B.)**

SCALE: _____ SHEET 9 OF 9 SHEETS STA. 669+87.98 TO STA. 674+30.65

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)	LASALLE	29	29
				CONTRACT NO. 66889
<small>(ILLINOIS) FED. AID PROJECT</small>				