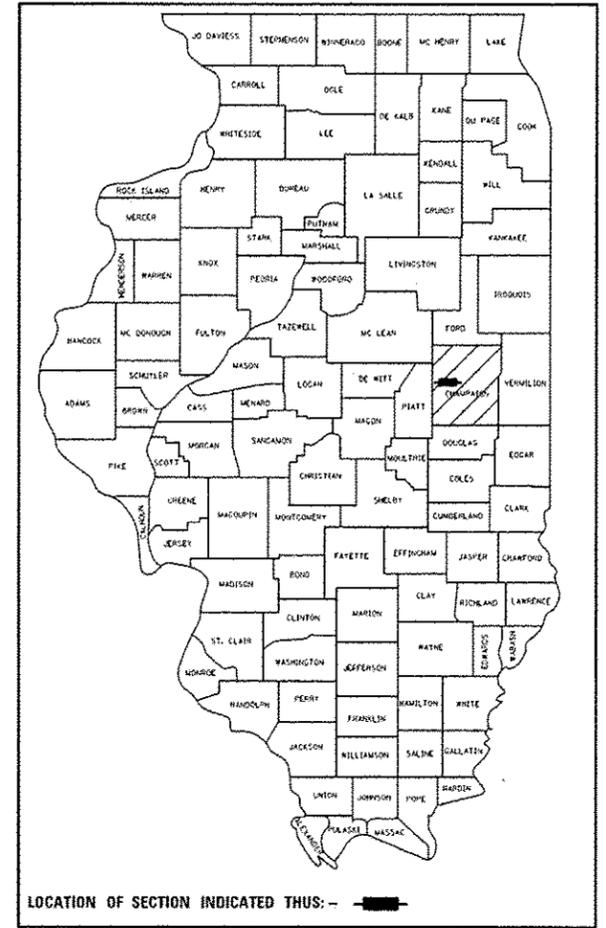


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	12BR-1BJR	CHAMPAIGN	24	1
ILLINOIS			CONTRACT NO. 70C34	

D-95-061-16



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

# PROPOSED HIGHWAY PLANS

FAS ROUTE 1518 (US 150)  
SECTION (12BR-1)BJR

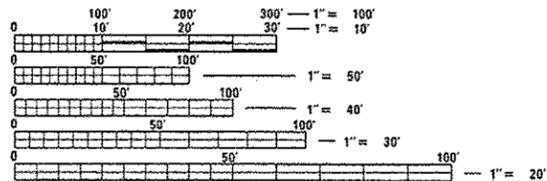
BRIDGE JOINT REPAIRS OVER  
SANGAMON RIVER EAST OF MAHOMET  
CHAMPAIGN COUNTY

C-95-061-16

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

CURRENT TRAFFIC DATA STR. 010-0235	
2016 ADT	= 11,000
2026 ADT	= 12,300
PU + PC %	= 94.7
SU %	= 3.6
MU%	= 1.7

**DESIGN DESIGNATION**  
MINOR ARTERIAL



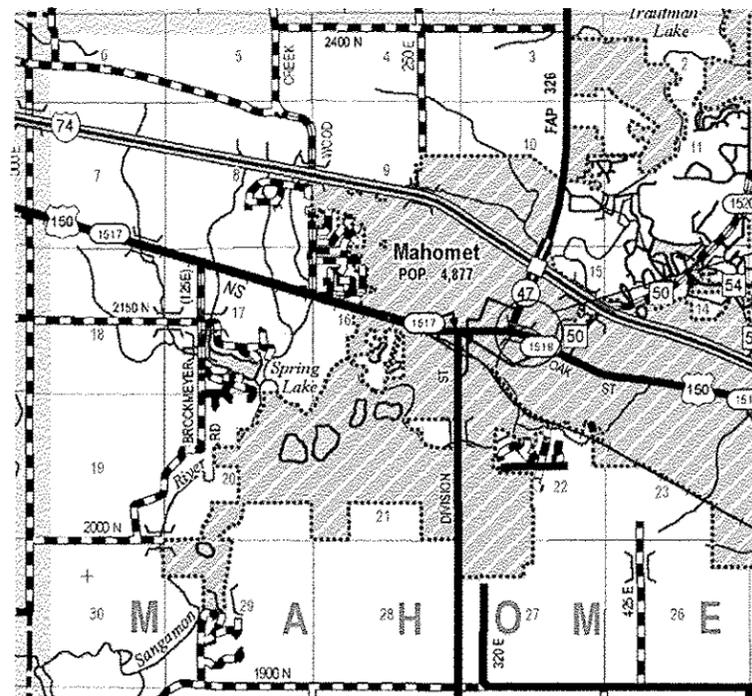
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

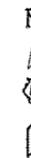
TOWNSHIP: MAHOMET

PROJECT ENGINEER: TIM BRANDENBURG  
PROJECT MANAGER: EURNIE GARVER

CONTRACT NO. 70C34



EXISTING S.N. 010-0235  
F.A.S. 1518 (US 150)  
SANGAMON RIVER  
STATION 617+51  
BRIDGE JOINT REPAIR



GROSS LENGTH = 461.97 FT. = 0.0875 MILE  
NET LENGTH = 461.97 FT. = 0.0875 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED NOVEMBER 21, 16  
Kenneth A. Gannett  
REGION THREE ENGINEER/CAC

Jan 27, 20 17  
Maureen M. Addis, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 27, 20 17  
David A. [Signature]  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

REV



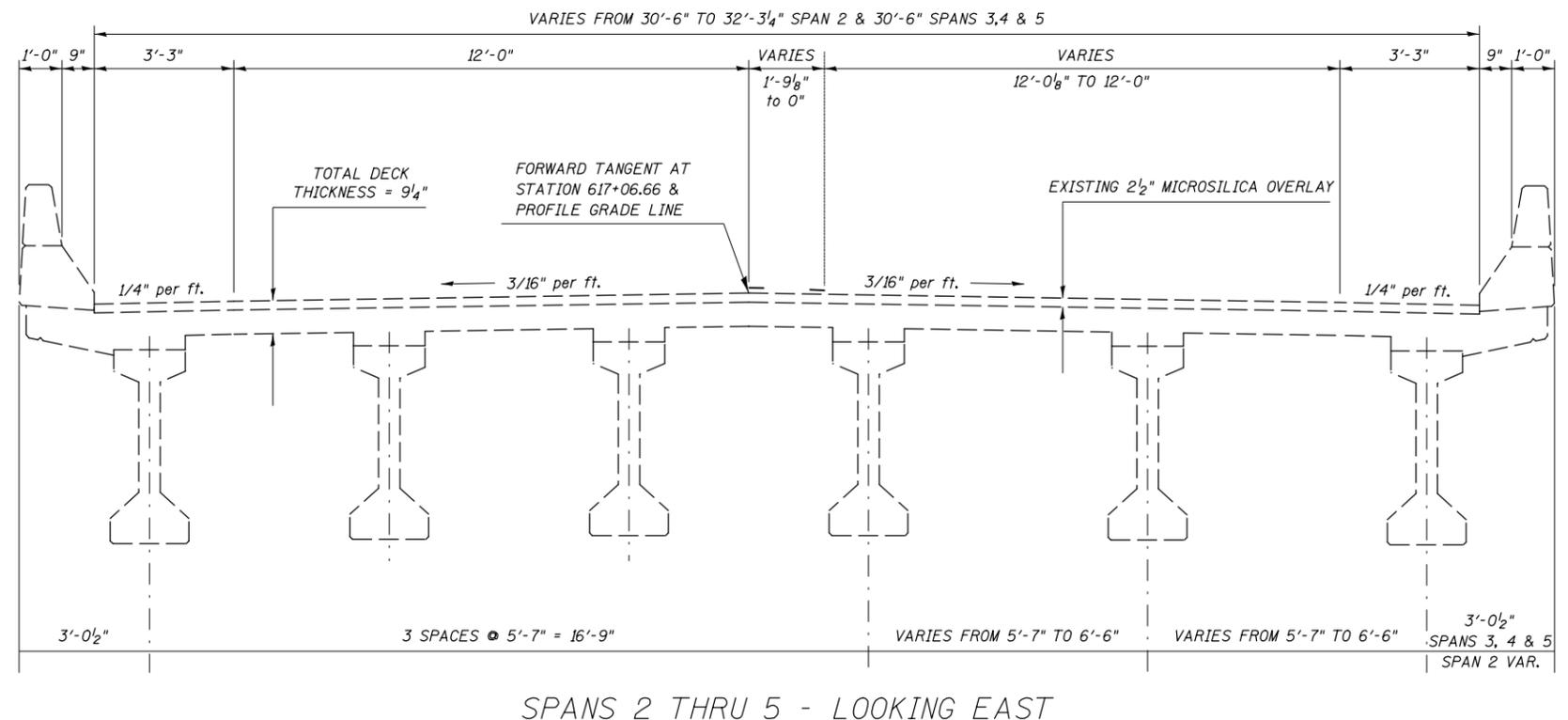
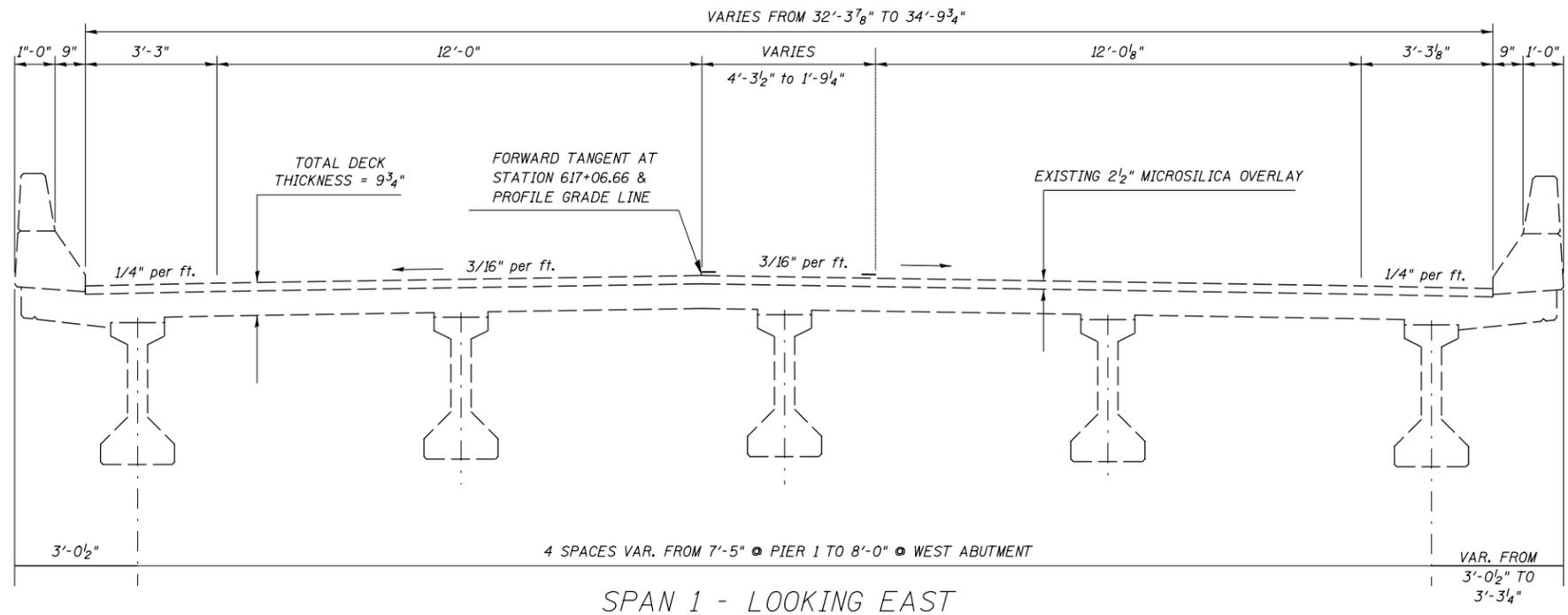
CHAMPAIGN CO.  
FAS 1518 (US 150)

BRIDGE JOINT REPAIR  
S.N. 010-0235  
100% STATE  
0014

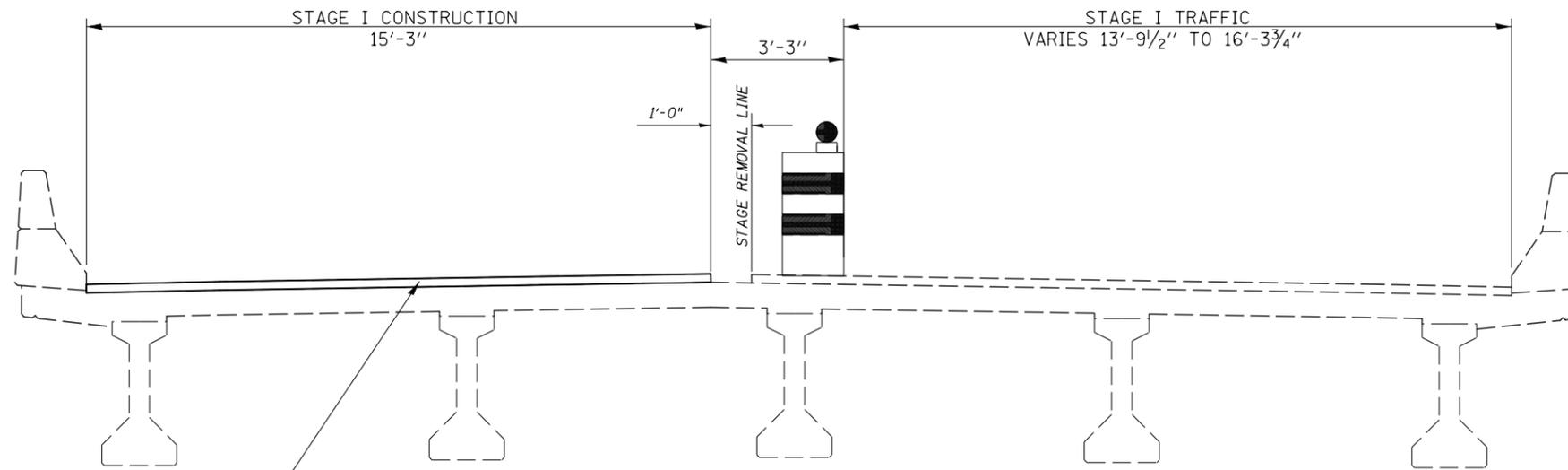
CODE NO.	ITEM	UNIT	QUANTITY
50102400	CONCRETE REMOVAL	CU YD	3.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2.5
50300300	PROTECTIVE COAT	SQ YD	22.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	550.0
50800515	BAR SPLICERS	EACH	6.0
67000400	ENGINEERING FIELD OFFICE, TYPE A	CAL MO	3.0
67100100	MOBILIZATION	LSUM	1.0
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1.0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0
X7200201	WIDTH RESTRICTION SIGNING	LSUM	1.0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	34.0
Z0021907	SILICONE JOINT SEALER, 1.75"	FOOT	49.0
Z0021912	SILICONE JOINT SEALER, 2.5"	FOOT	86.0
Z0041895	POLYMER CONCRETE	CU FT	15.8

NO SPECIALTY ITEMS



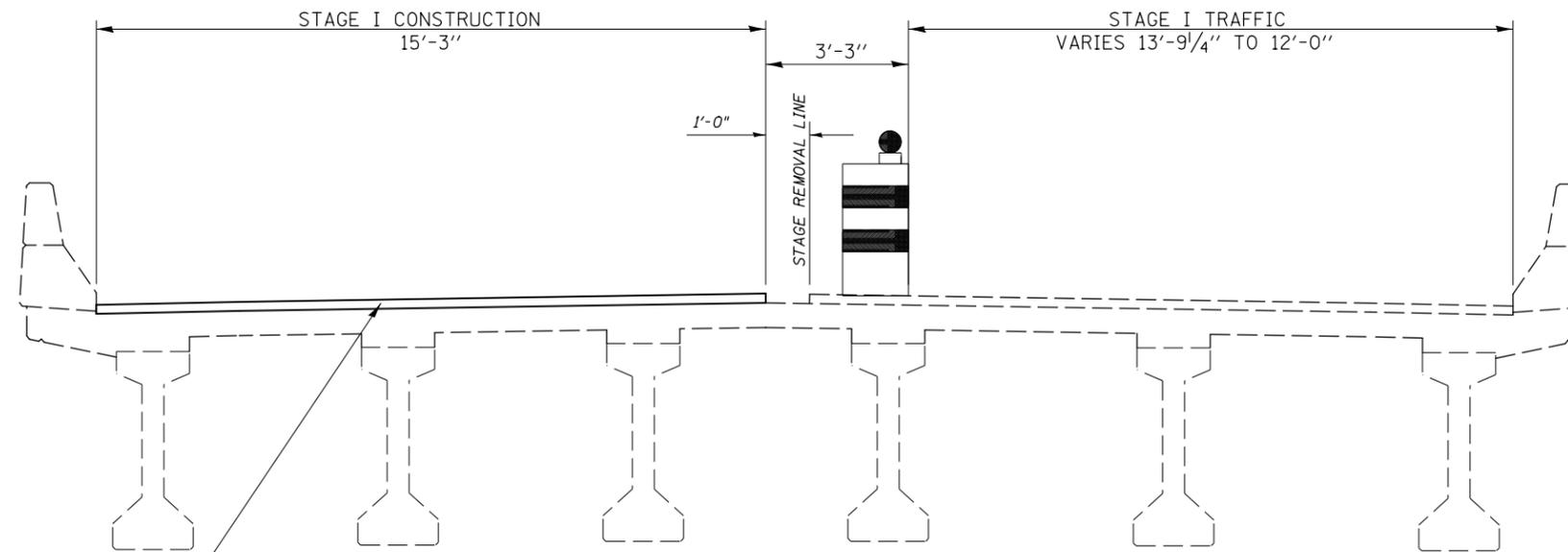


FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING TYPICAL SECTIONS S.N. 010-0235</b>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570\CDRAWING\Structures\0570C34.BridgeRep\REVISED -	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -				1518	(12BR-1)BJR	CHAMPAIGN	24	5
*MODELNAME*	PLOT DATE = 12/8/2016	DATE -	REVISED -		SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 70C34		



CONCRETE REMOVAL & POLYMER CONCRETE (NOSING) AT JOINTS ONLY

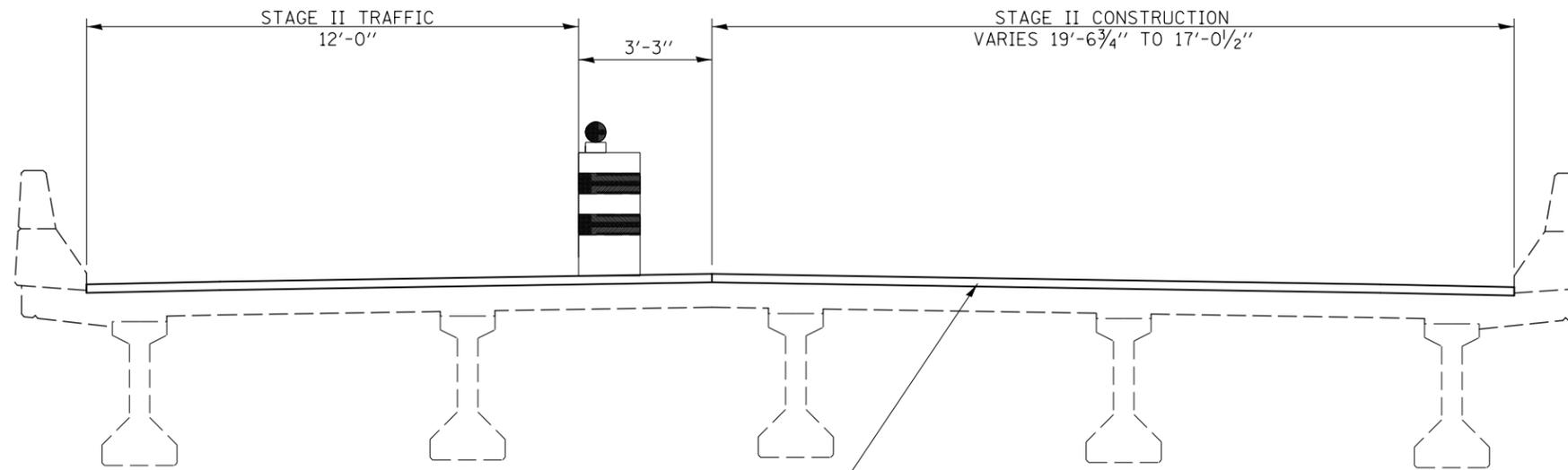
SPAN 1 - LOOKING EAST



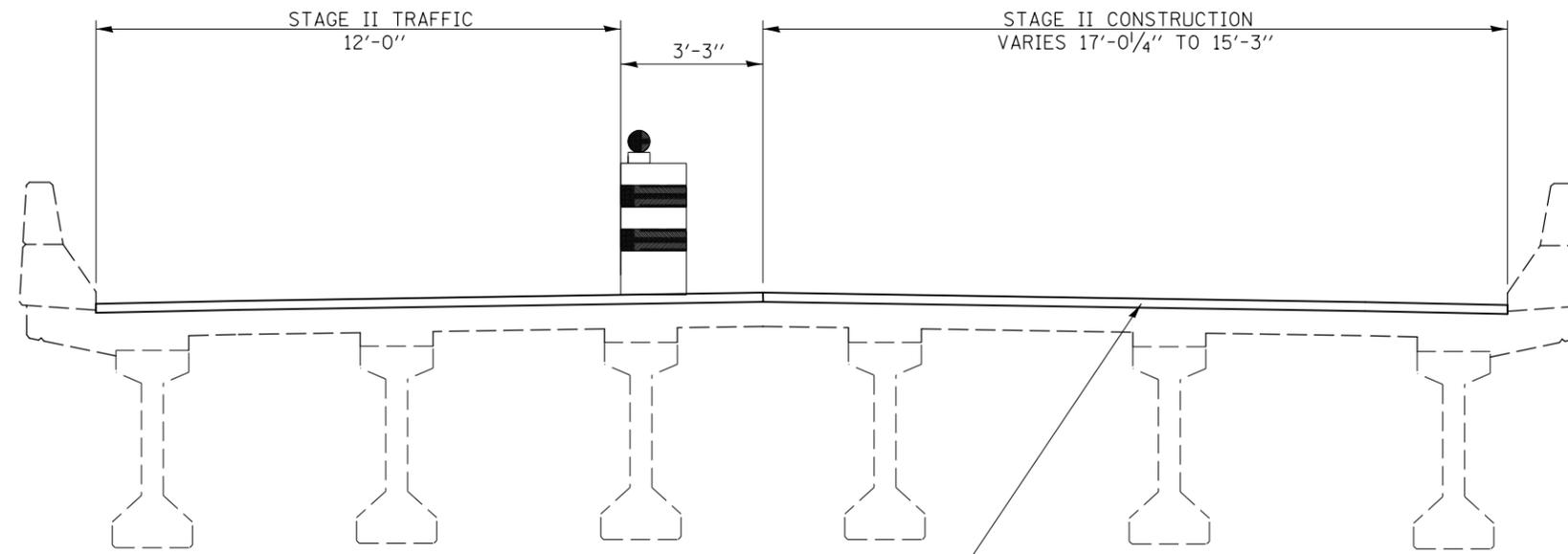
CONCRETE REMOVAL & POLYMER CONCRETE (NOSING) AT JOINTS ONLY

SPANS 2 THRU 5 - LOOKING EAST

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING SECTIONS STAGE I S.N. 010-0235</b>			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0579\Drawings\Structures\0570C34.L.BridgeRep	DRAWN	REVISED	REVISED					1518	(12BR-1)BJR	CHAMPAIGN	24	6
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 12/8/2016	DATE -	REVISED -		SCALE:	SHEET 3	OF 9 SHEETS	STA.	TO STA.			

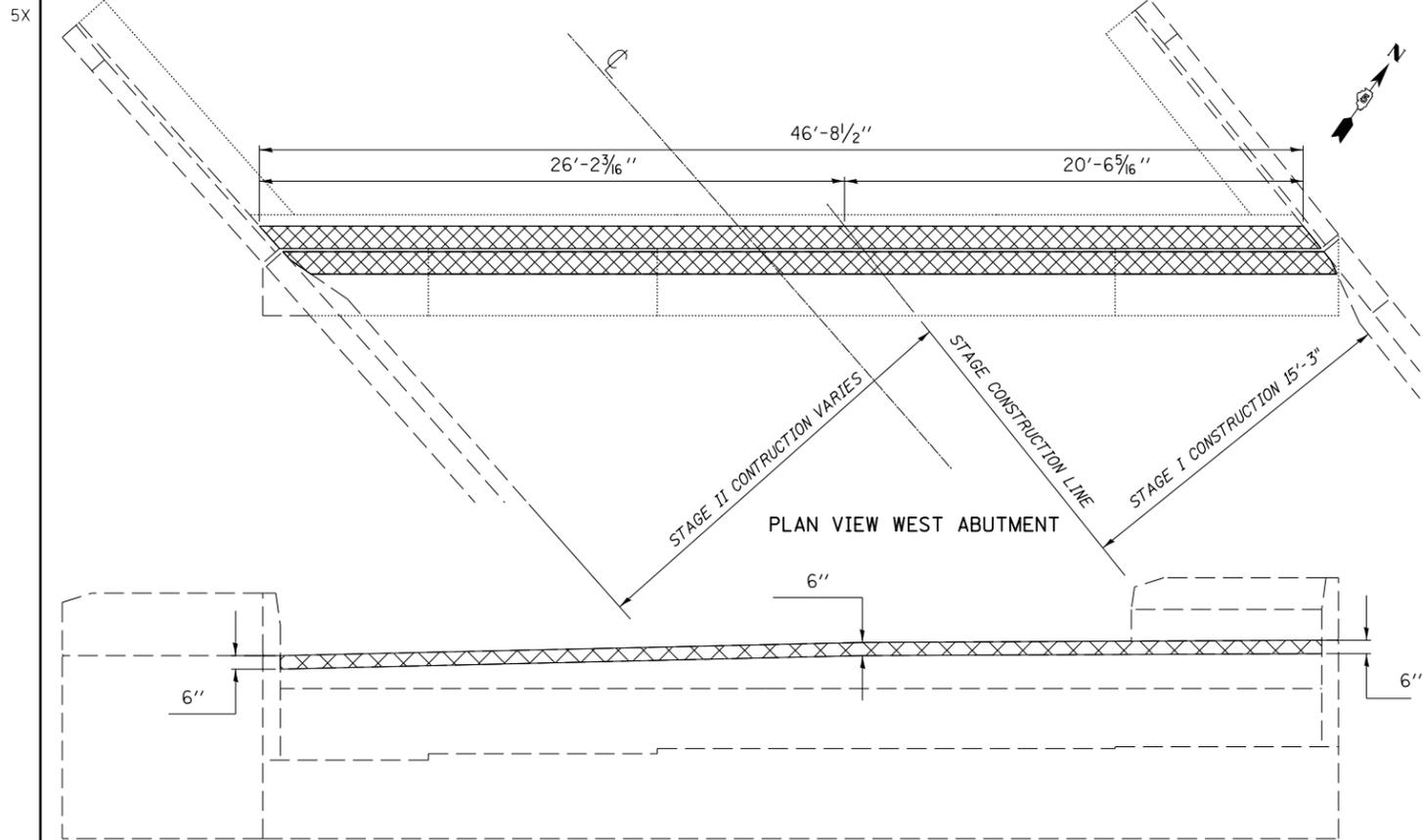


SPAN 1 - LOOKING EAST

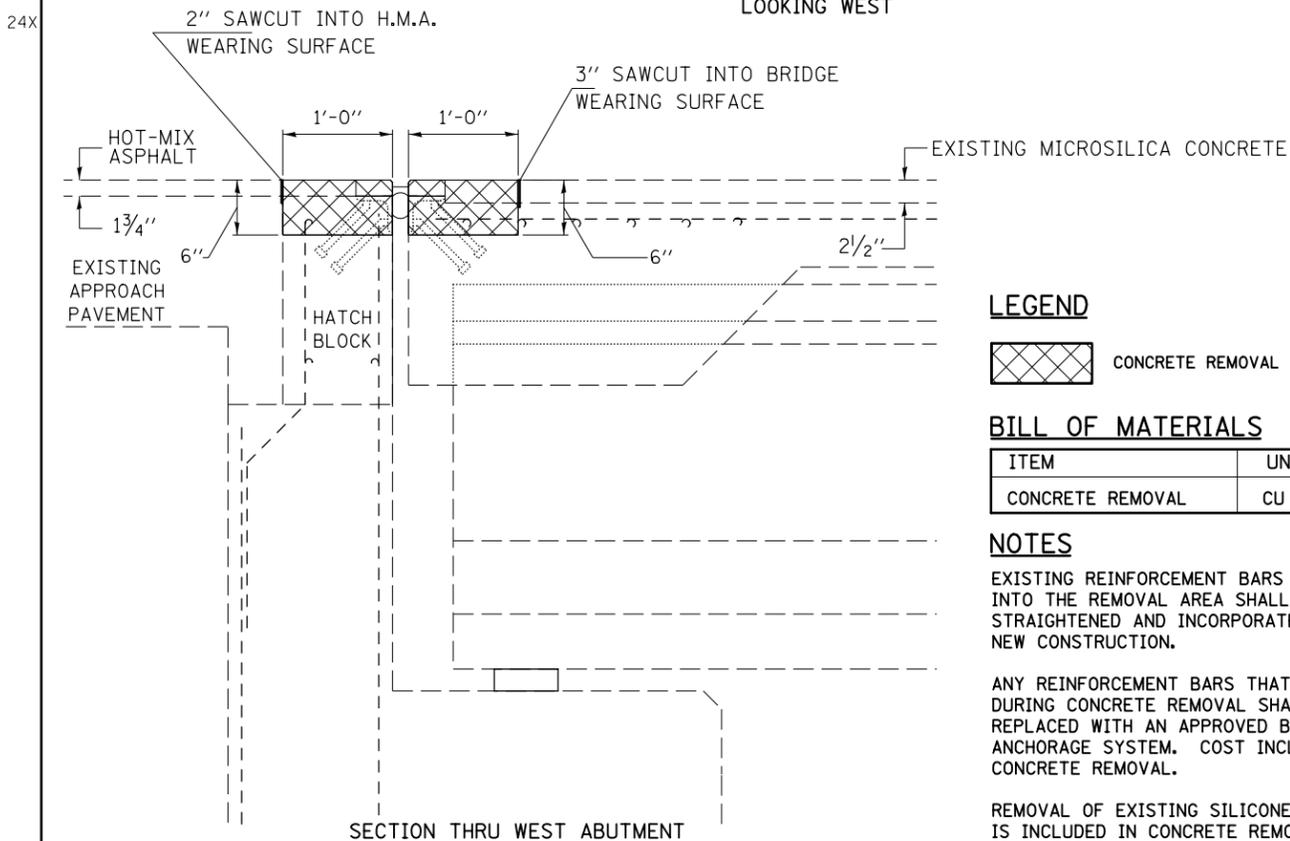


SPANS 2 THRU 5 - LOOKING EAST

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING SECTIONS STAGE II S.N. 010-0235</b>			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05790\Drawings\Structures\0570C34.BridgeRep		DRAWN -	REVISED -		1518	(12BR-1)BJR	CHAMPAIGN	24	7			
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 12/8/2016	DATE -	REVISED -		SCALE:	SHEET 4 OF 9 SHEETS	STA.	TO STA.				



ELEVATION VIEW WEST ABUTMENT  
LOOKING WEST



SECTION THRU WEST ABUTMENT

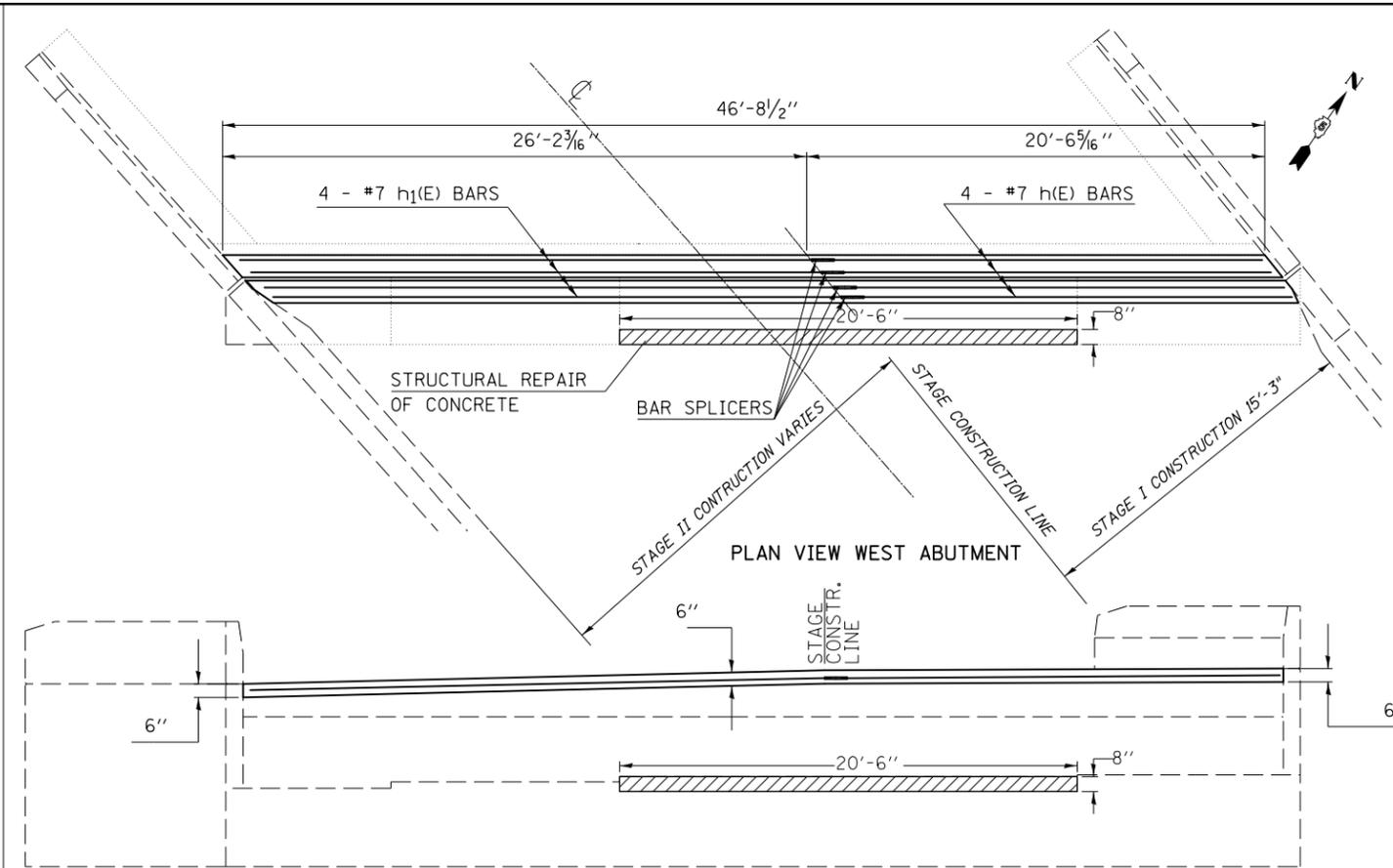
**LEGEND**  
 CONCRETE REMOVAL

**BILL OF MATERIALS**

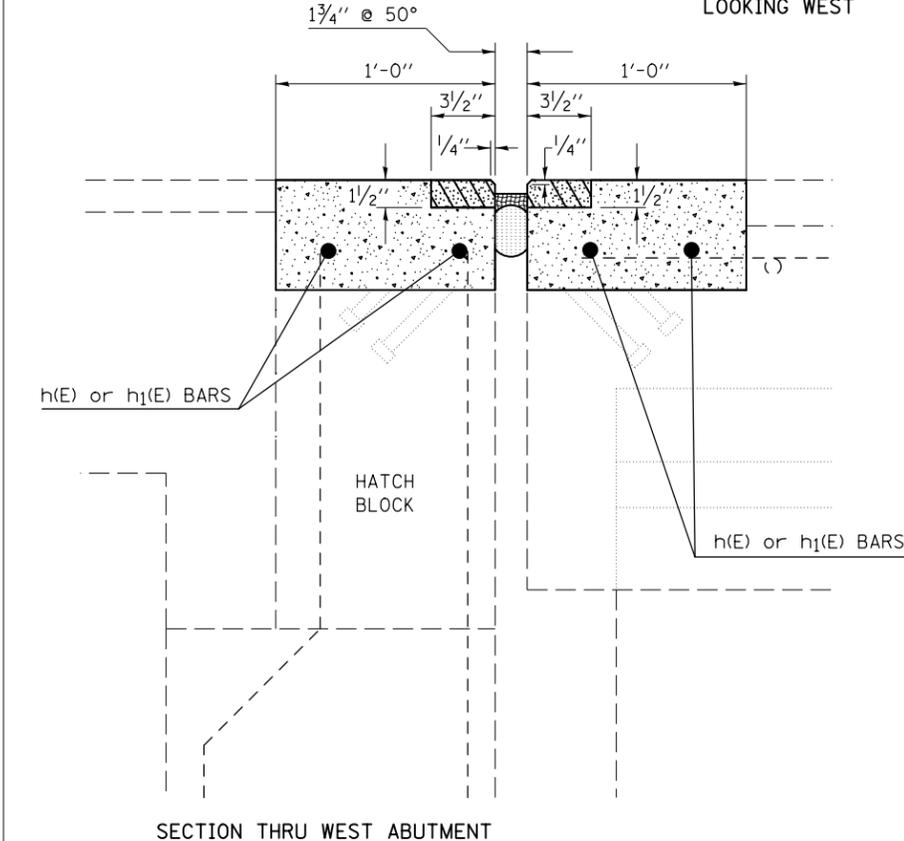
ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	1.8

**NOTES**  
 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.

REMOVAL OF EXISTING SILICONE JOINT SEALER IS INCLUDED IN CONCRETE REMOVAL.



ELEVATION VIEW WEST ABUTMENT  
LOOKING WEST



SECTION THRU WEST ABUTMENT

**LEGEND**  
 STRUCTURAL REPAIR OF CONC. (DEPTH = <5\")  
 POLYMER CONCRETE  
 CONCRETE SUPERSTRUCTURES

**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	4	#7	20'-3"	—
h1(E)	4	#7	25'-7"	—

CONCRETE SUPERSTRUCTURE	CU YD	1.7
PROTECTIVE COAT	SQ YD	11
BAR SPLICERS	EACH	4
REINFORCEMENT BARS (EPOXY COATED)	POUND	380
STRUCTURAL REPAIR OF CONC (DEPTH = <5\")	SQ FT	28
SILICONE JOINT SEALER, 1.75"	FOOT	49
POLYMER CONCRETE	CU FT	3.5

**NOTES**  
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -
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	PLOT DATE = 12/8/2016		

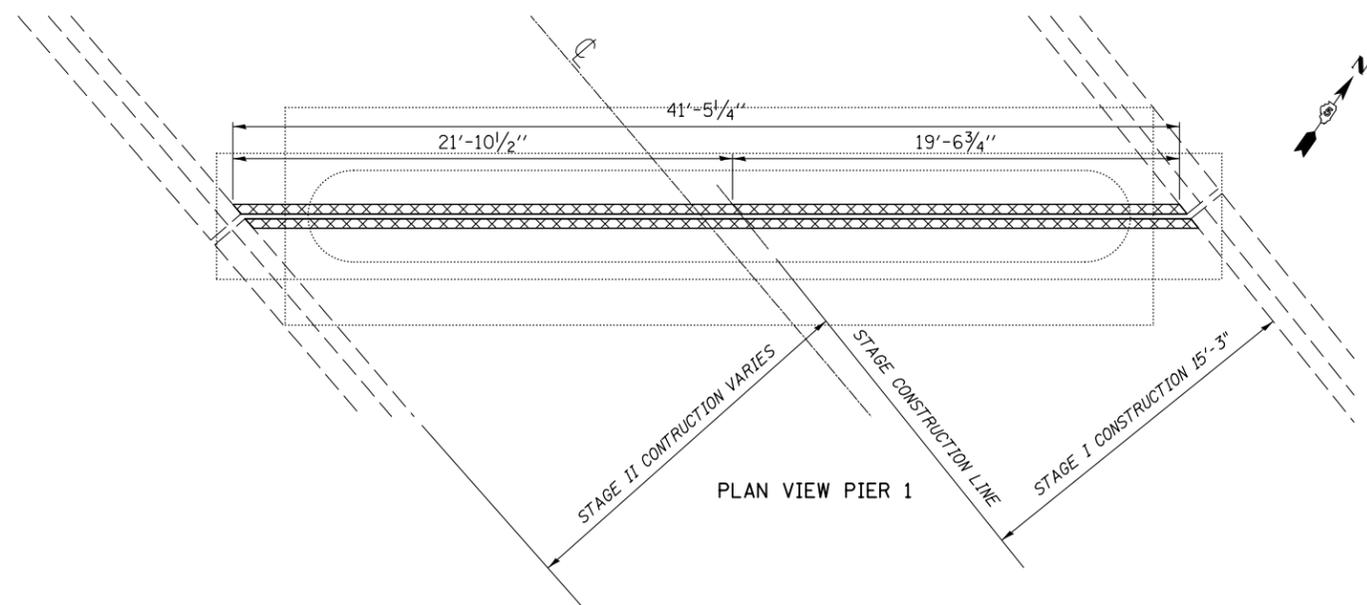
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS  
S.N. 010-0235

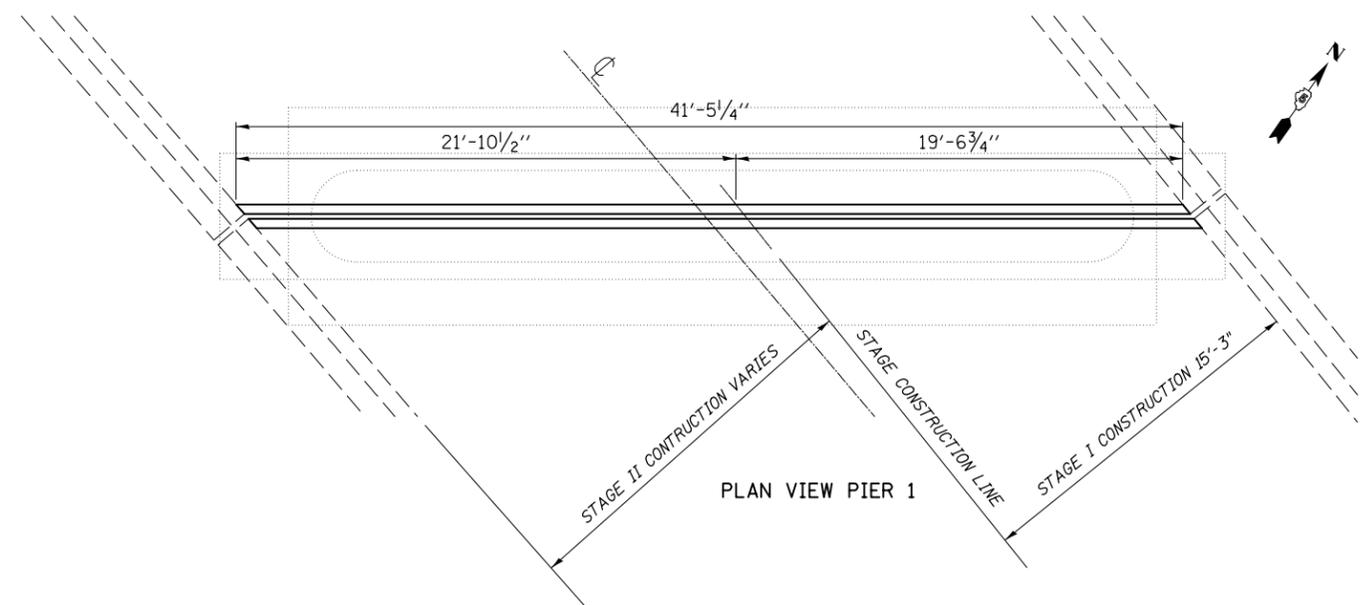
SCALE: SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	8

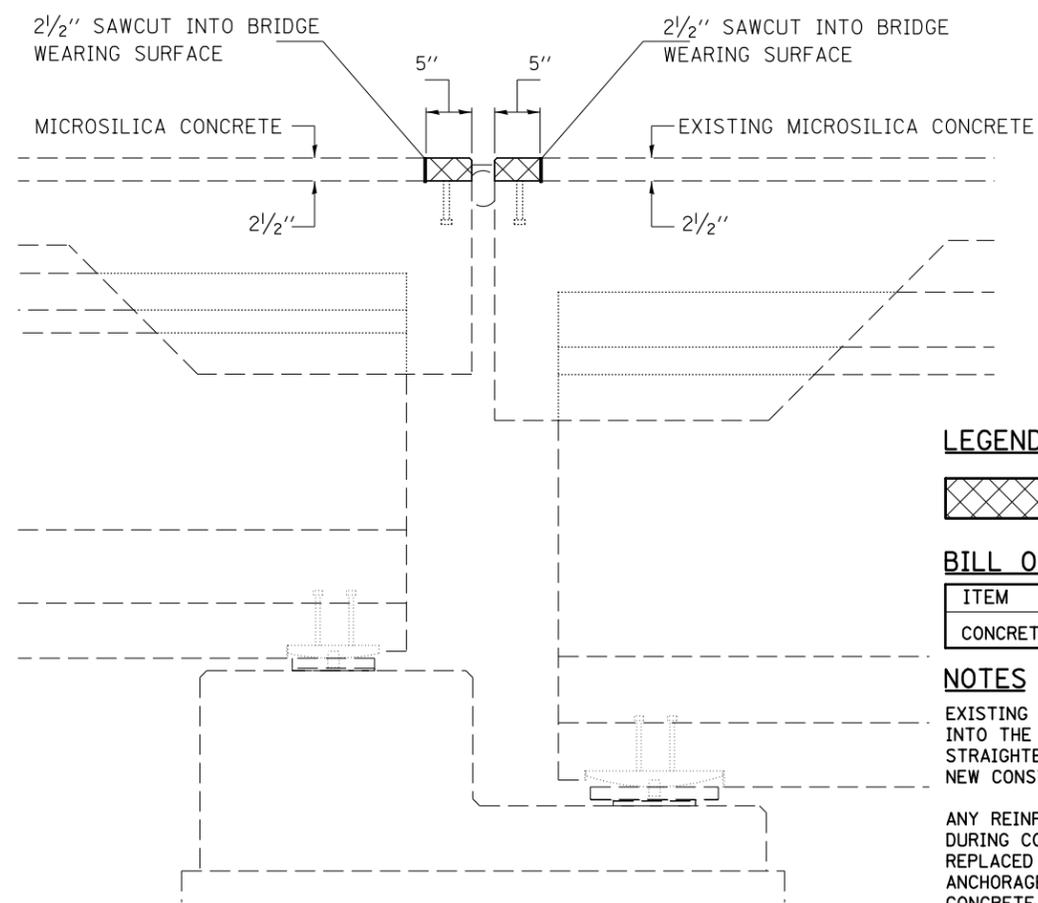
CONTRACT NO. 70C34  
ILLINOIS FED. AID PROJECT



PLAN VIEW PIER 1



PLAN VIEW PIER 1



SECTION THRU PIER 1

**LEGEND**

CONCRETE REMOVAL

**BILL OF MATERIALS**

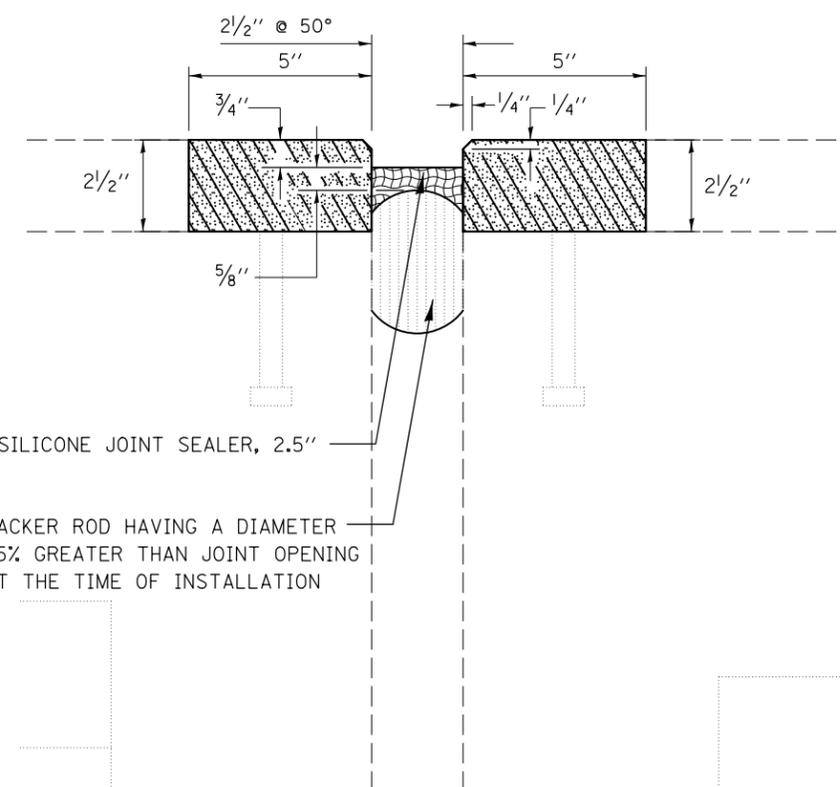
ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	0.3

**NOTES**

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.

REMOVAL OF EXISTING SILICONE JOINT SEALER IS INCLUDED IN CONCRETE REMOVAL.



SECTION THRU PIER 1

**LEGEND**

POLYMER CONCRETE

**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
PROTECTIVE COAT			SQ YD	4
SILICONE JOINT SEALER, 2.5"			FOOT	44
POLYMER CONCRETE			CU FT	7.2

**NOTES**

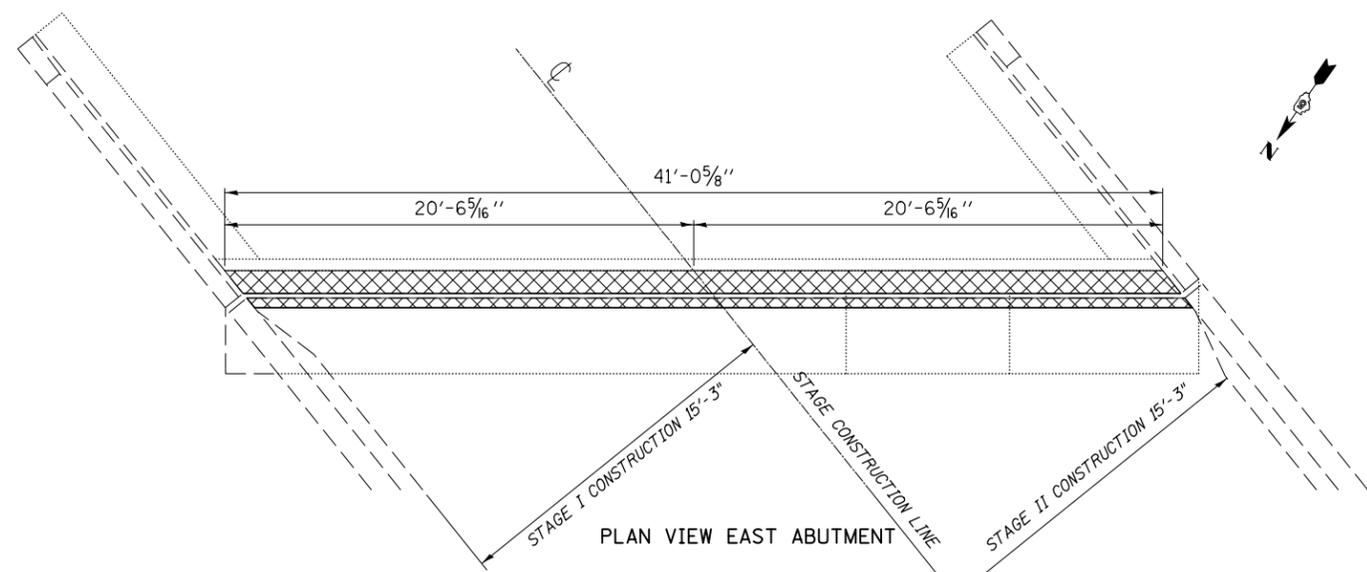
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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\$MODELNAME\$	PLOT DATE = 12/8/2016	DATE -	REVISED -

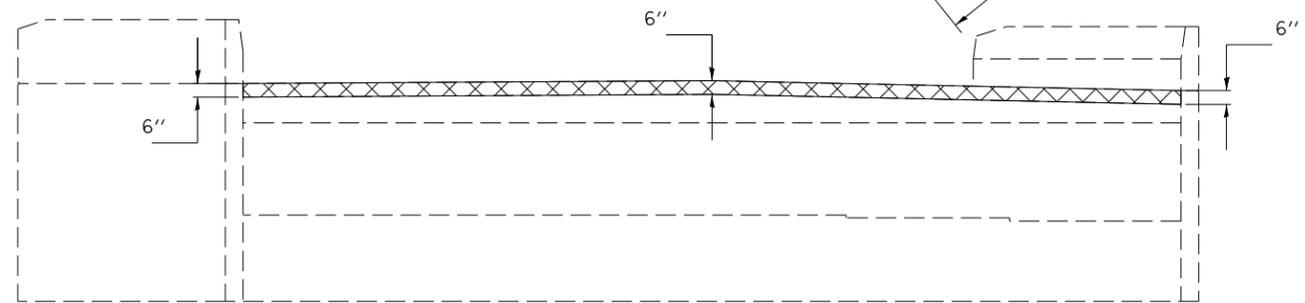
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PIER 1 DETAILS</b>			
<b>S.N. 010-0235</b>			
SCALE:	SHEET 6	OF 9 SHEETS	STA. TO STA.

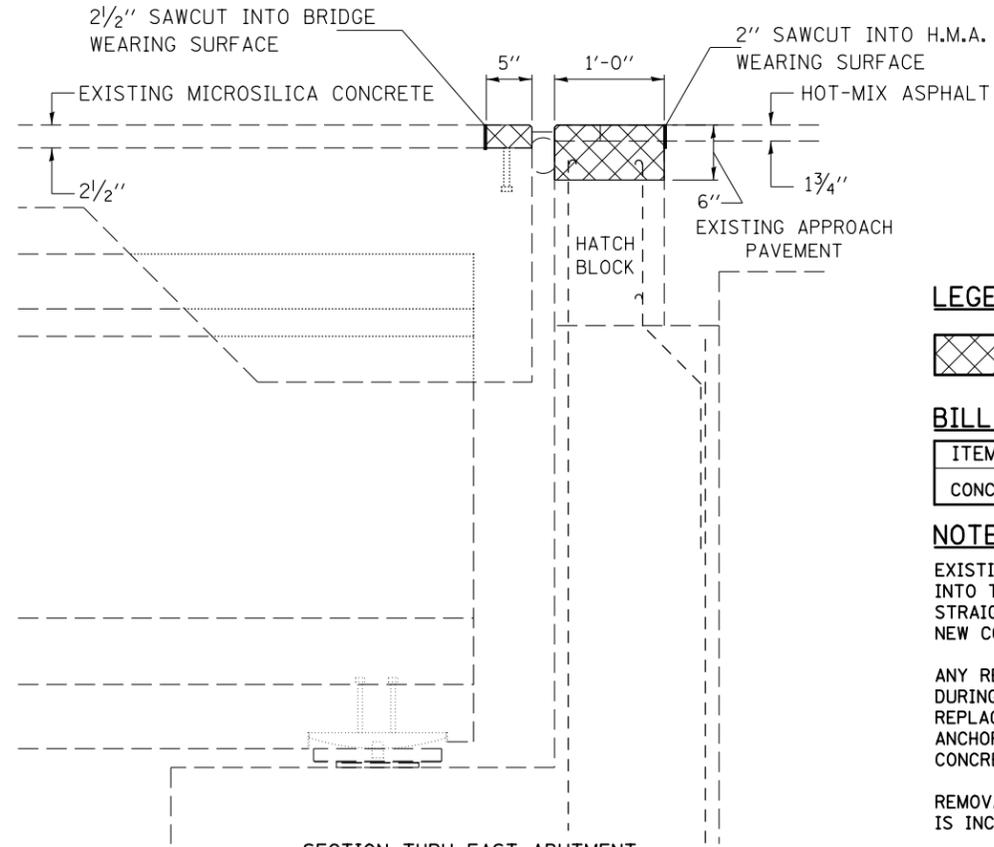
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	9
			CONTRACT NO. 70C34	
ILLINOIS FED. AID PROJECT				



PLAN VIEW EAST ABUTMENT



ELEVATION VIEW EAST ABUTMENT  
LOOKING EAST



SECTION THRU EAST ABUTMENT

**LEGEND**

CONCRETE REMOVAL

**BILL OF MATERIALS**

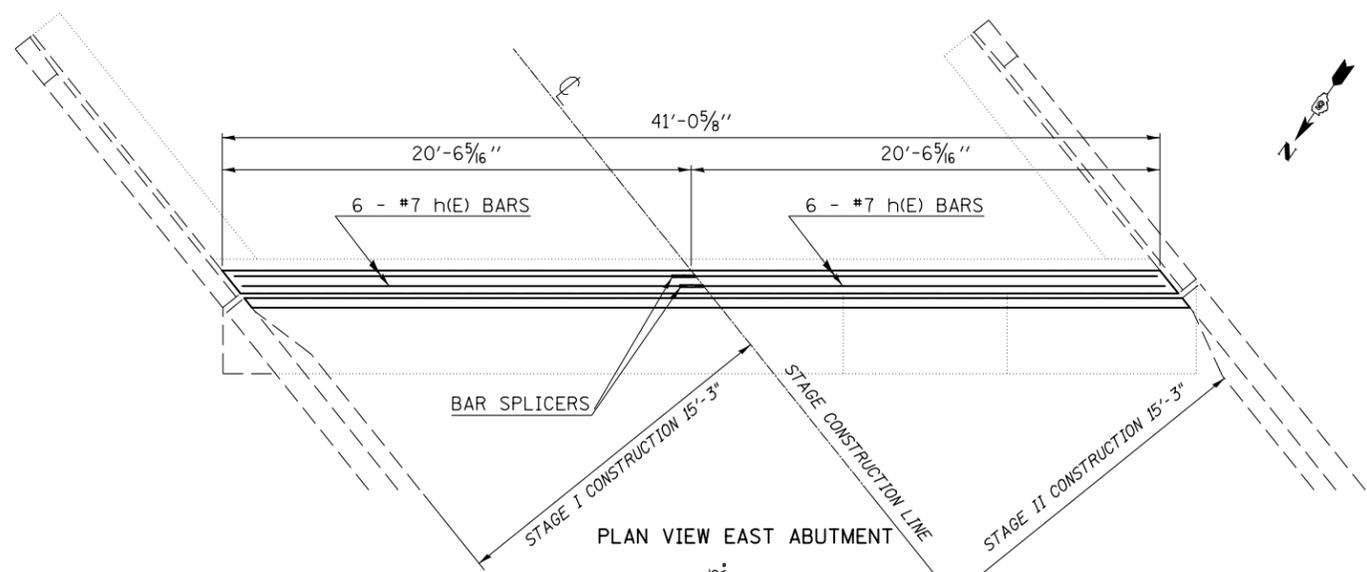
ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	0.9

**NOTES**

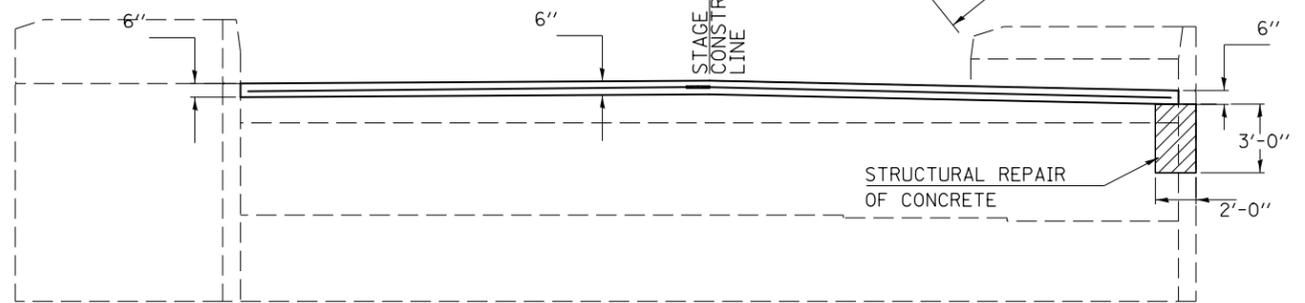
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.

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.

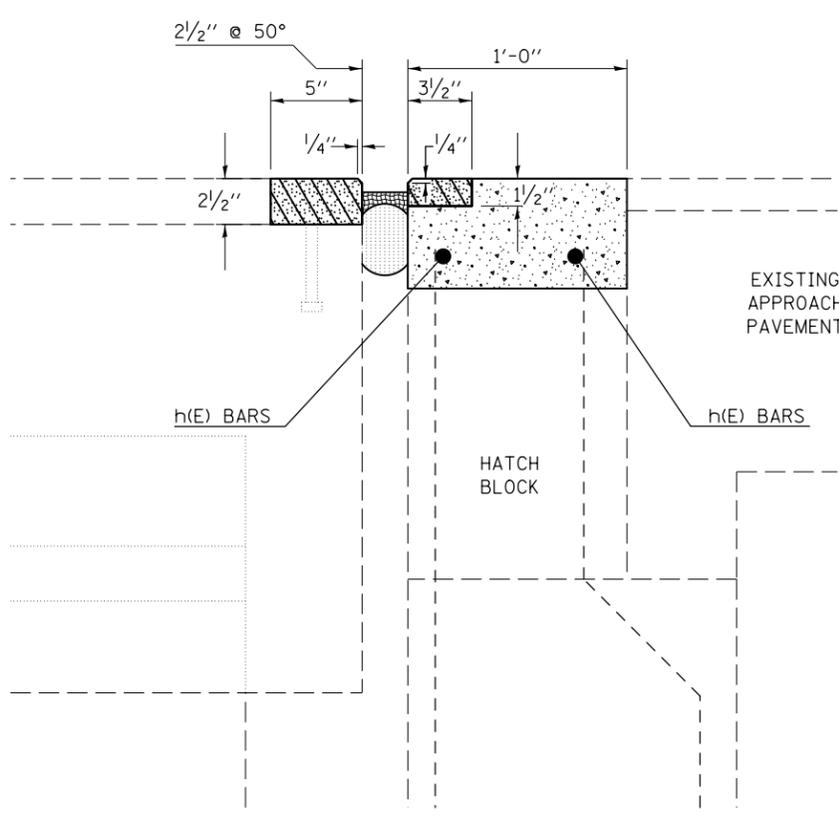
REMOVAL OF EXISTING SILICONE JOINT SEALER IS INCLUDED IN CONCRETE REMOVAL.



PLAN VIEW EAST ABUTMENT



ELEVATION VIEW EAST ABUTMENT  
LOOKING EAST



SECTION THRU EAST ABUTMENT

**LEGEND**

- STRUCTURAL REPAIR OF CONC. (DEPTH = <5'")
- POLYMER CONCRETE
- CONCRETE SUPERSTRUCTURES

**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	4	#7	20'-3"	—
CONCRETE SUPERSTRUCTURE			CU YD	0.8
PROTECTIVE COAT			SQ YD	7
BAR SPLICERS			EACH	2
REINFORCEMENT BARS (EPOXY COATED)			POUND	170
STRUCTURAL REPAIR OF CONC (DEPTH = <5'")			SQ FT	6
SILICONE JOINT SEALER, 2.5'			FOOT	43
POLYMER CONCRETE			CU FT	5.1

**NOTES**

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

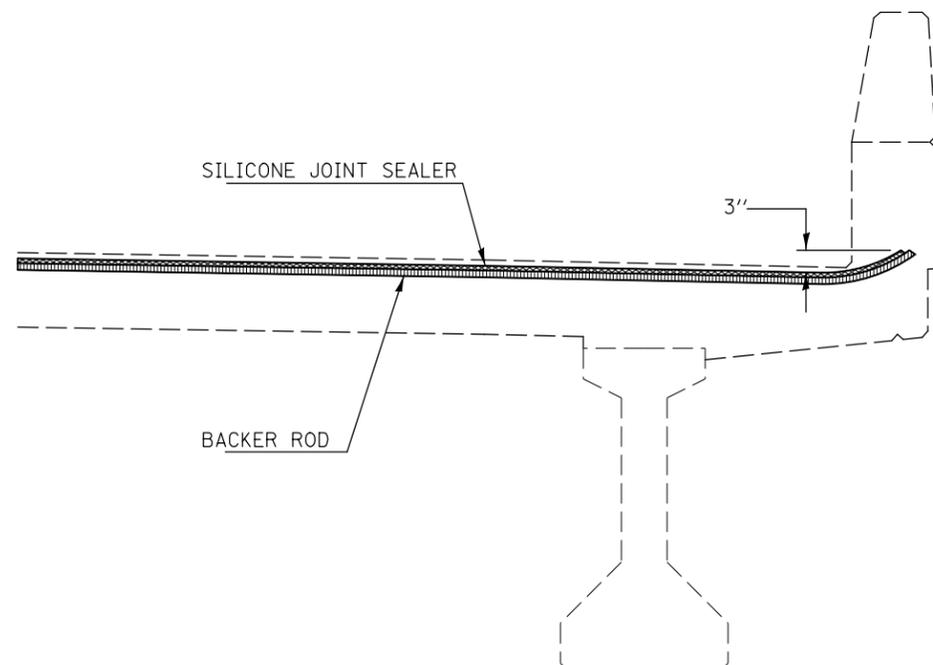
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

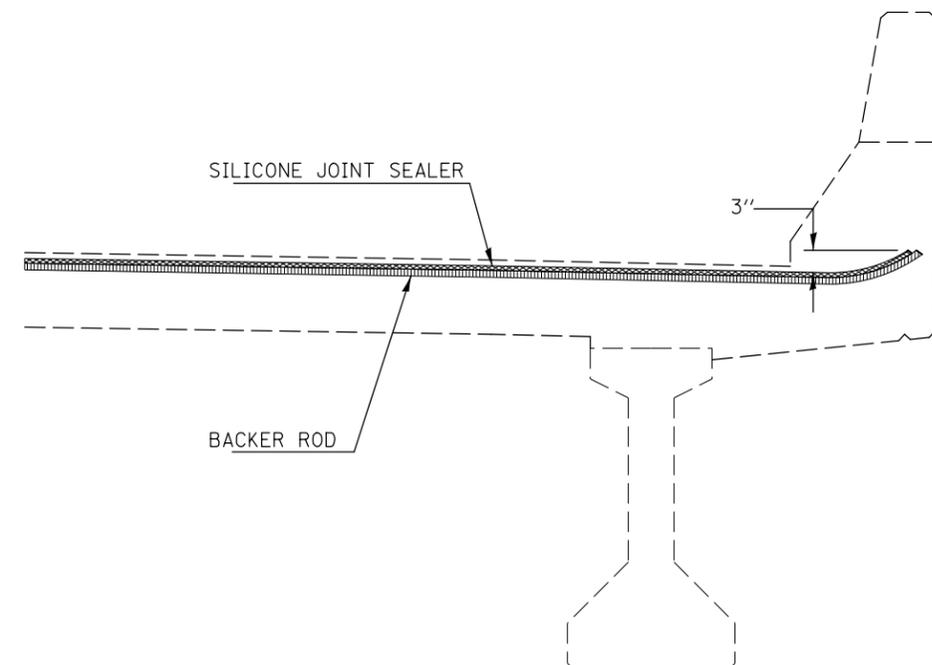
**EAST ABUTMENT DETAILS  
S.N. 010-0235**

SCALE: SHEET 7 OF 9 SHEETS STA. TO STA.

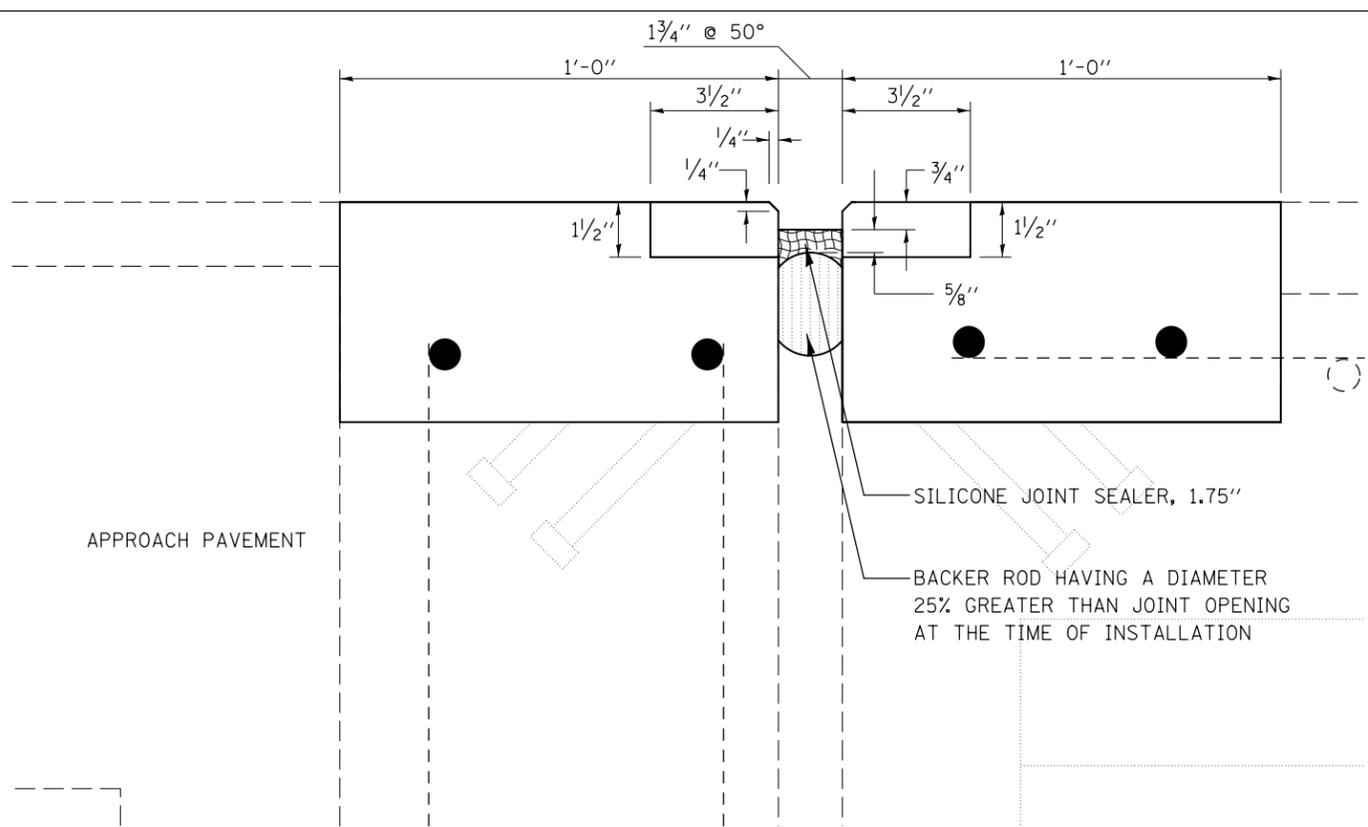
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	10
CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT	



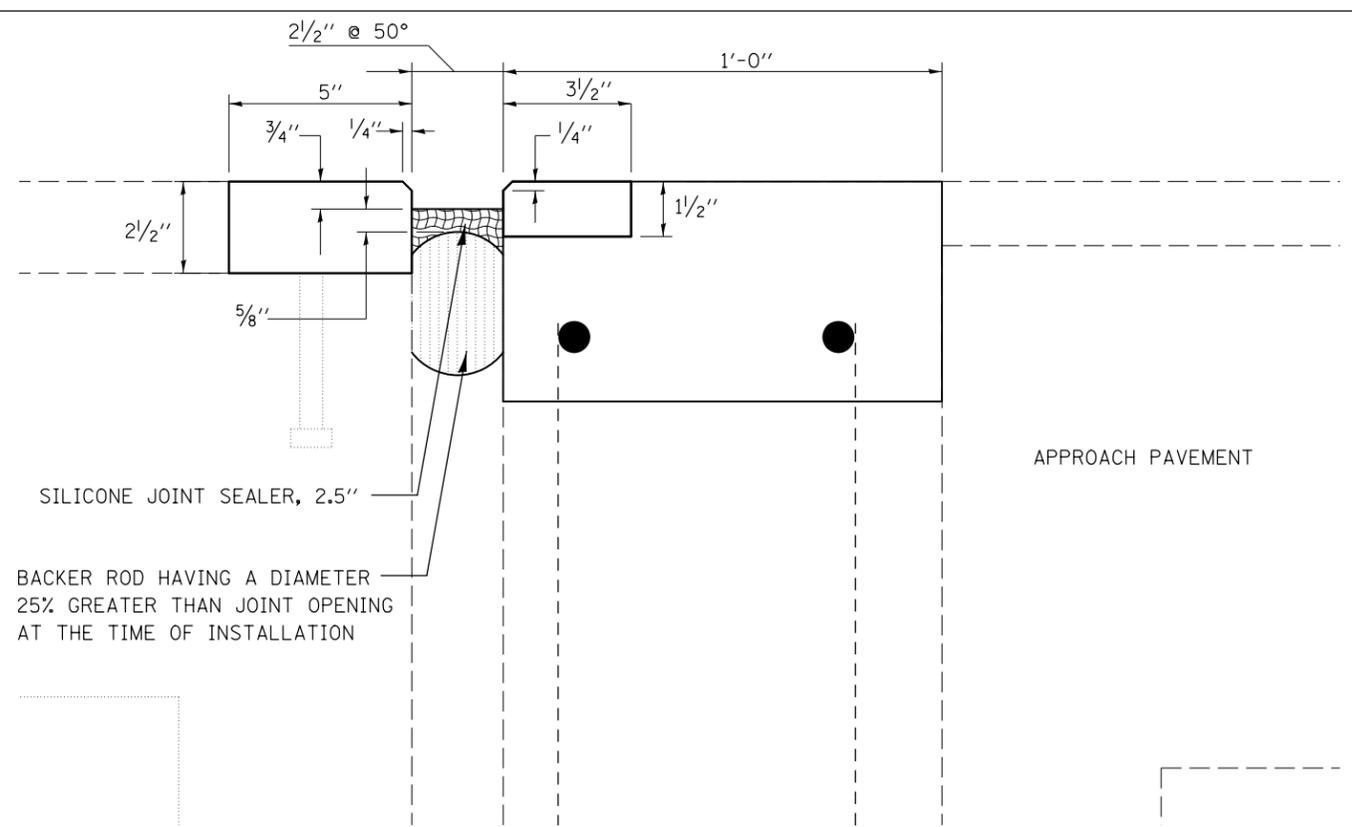
VIEW AT ABUTMENTS



VIEW AT PIER 1



SECTION THRU WEST ABUTMENT



SECTION THRU EAST ABUTMENT

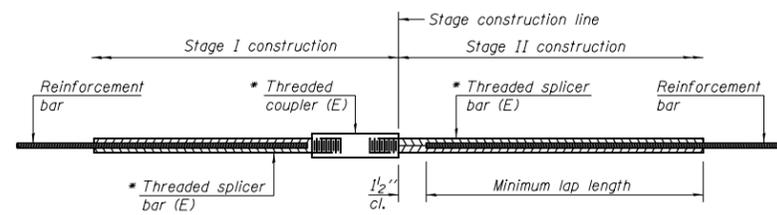
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*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SILICONE JOINT DETAILS  
S.N. 010-0235

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	11
CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT	

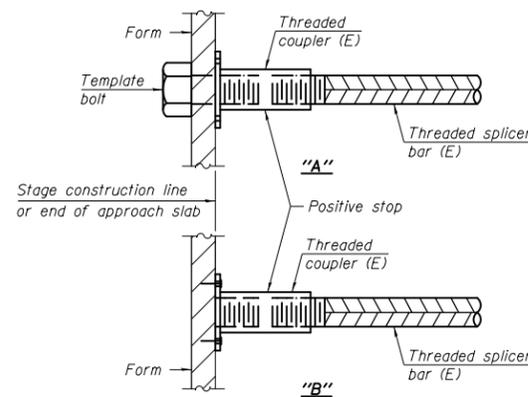


**STANDARD BAR SPLICER ASSEMBLY**

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

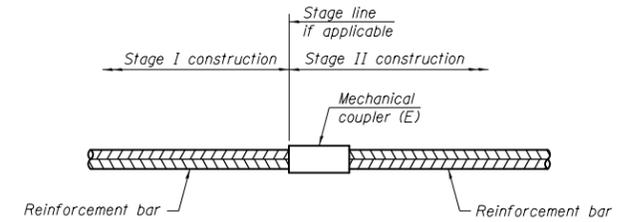
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. HATCH BLOCK	#7	2	4'-8"
W. DECK END	#7	2	4'-8"
E. HATCH BLOCK	#7	2	4'-8"



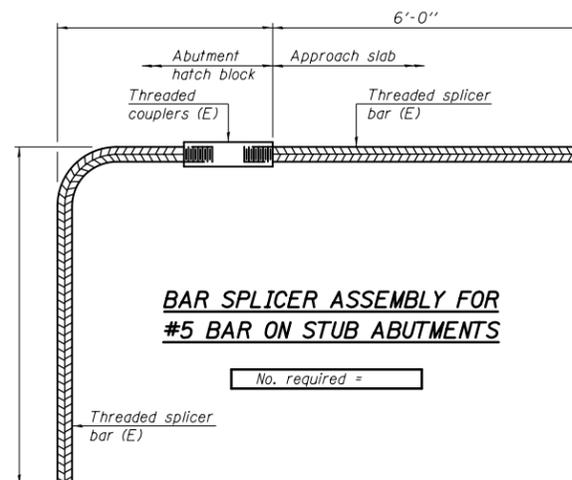
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



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

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 6-8-15

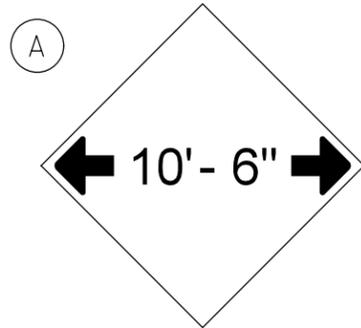
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	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/8/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 010-0235

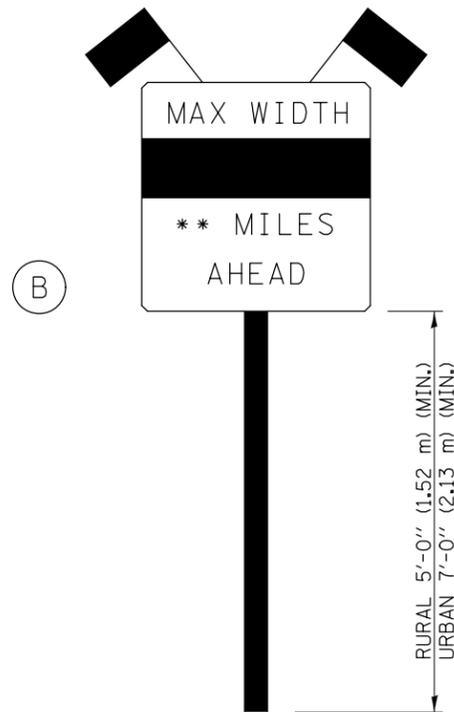
SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	12
CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT	

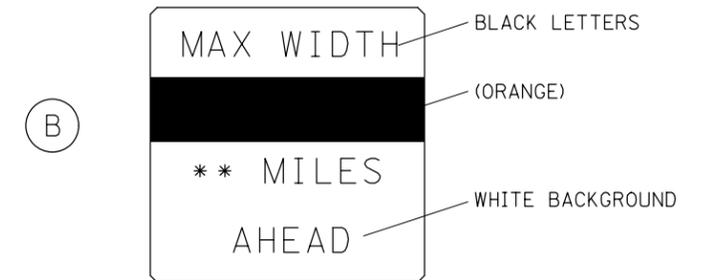


W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

\*\* SEE DETAILS AND DESCRIPTIONS ON NEXT 2 SHEETS

STAGE WIDTHS:

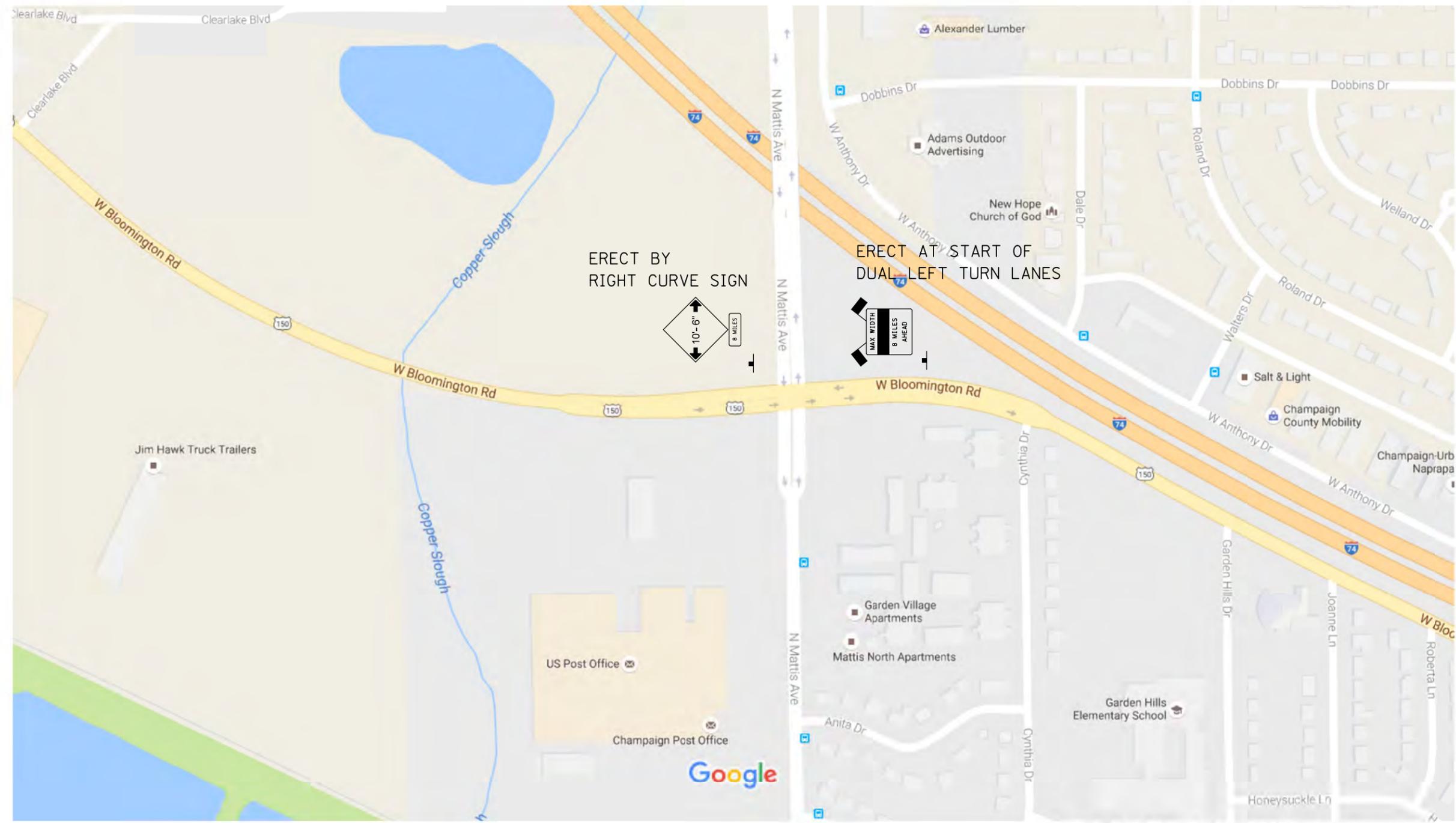
STAGE 1 WIDTH = 12'-0" actual; 10'-6" posted; REQUIRED

STAGE 2 WIDTH = 12'-0" actual; 10'-6" posted; REQUIRED

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (0) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WIDTH RESTRICTION SIGNING</b>			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\DRAWING>Data\Structures\0570C34.BridgeRep		DRAWN	REVISED		1518	(12BR-1)BJR	CHAMPAIGN	24	13			
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 12/8/2016	DATE -	REVISED -		SCALE:	SHEET 1 OF 4 SHEETS	STA.	TO STA.				



Map data ©2016 Google 200 ft

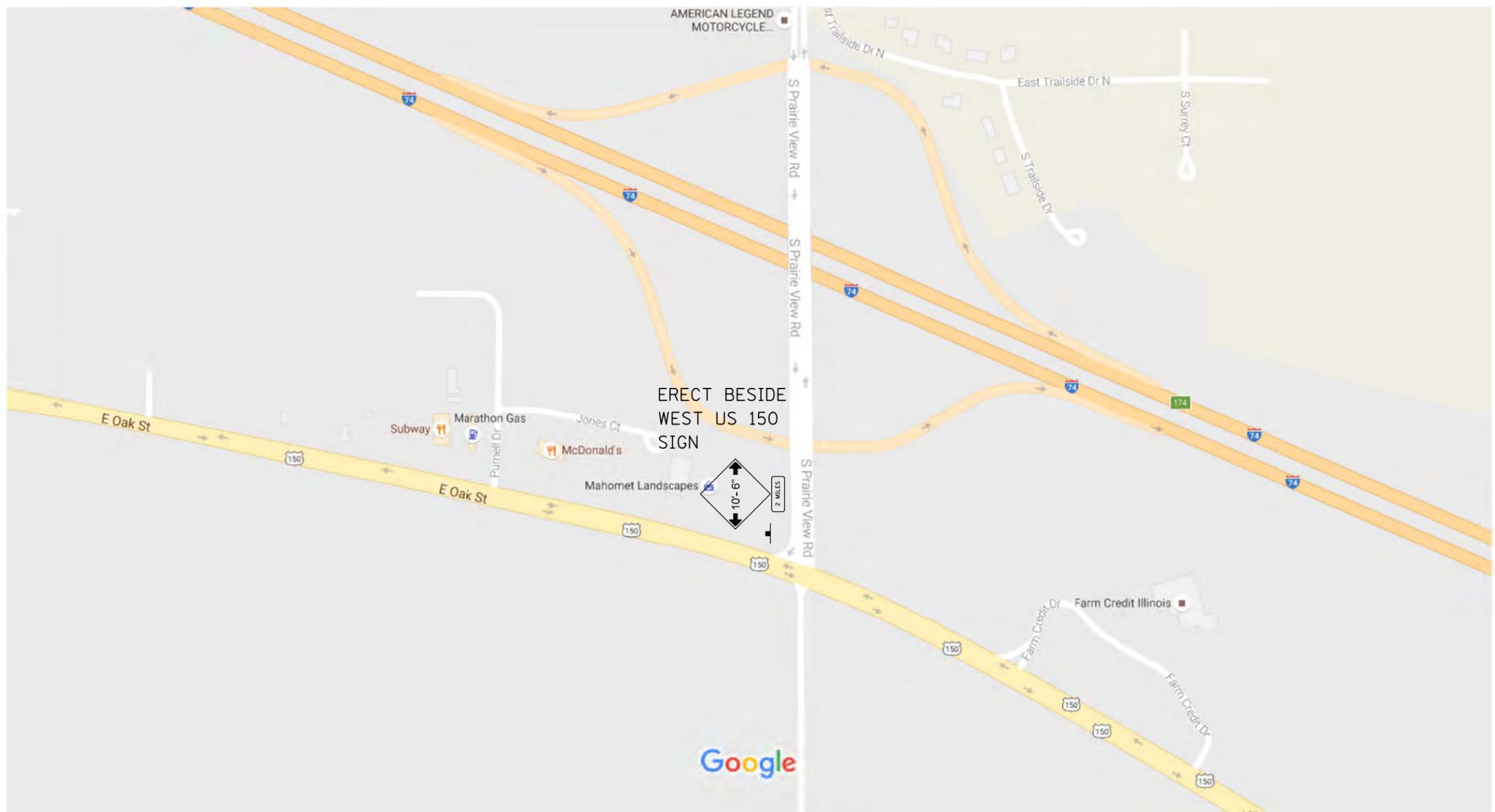
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*MODELNAME*	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	14
CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT	



Map data ©2016 Google 200 ft

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -
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*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	15
CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT	

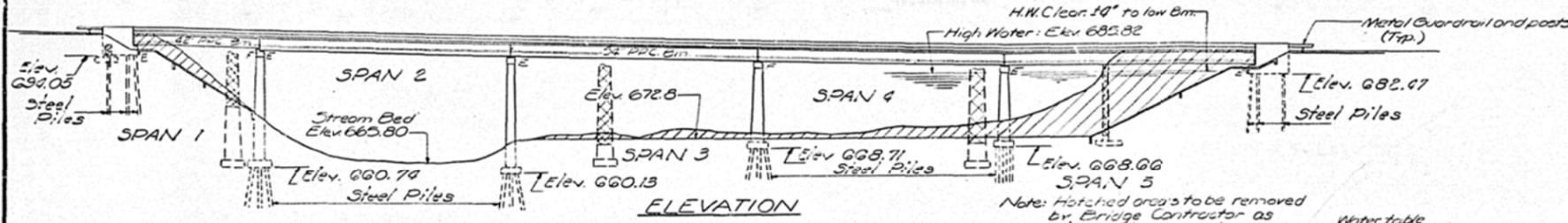


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. RT. 1518	12BR-1	CHAMPAIGN	40	11
FED. AID DIST. NO. 7			ALIGNED	FED. AID PROJECT

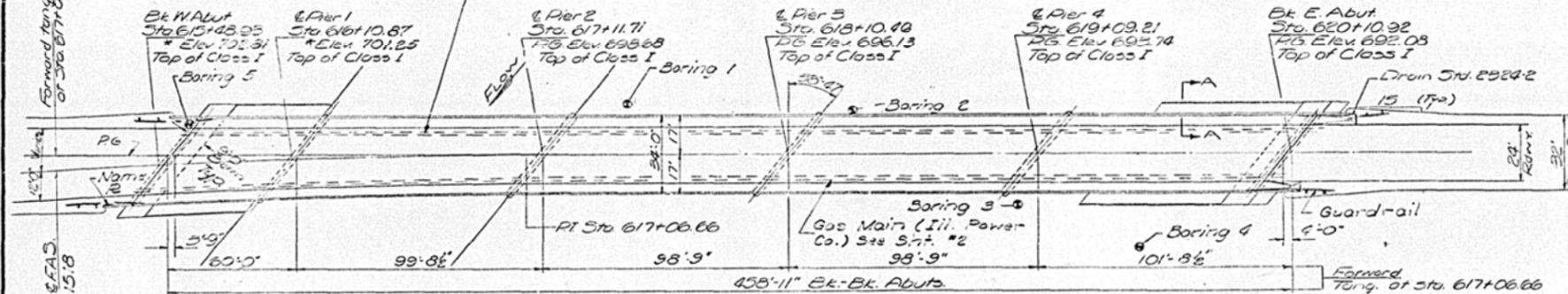
SHEET NO. 10  
21 SHEETS

3M. USC #65 L-204 Disc. Located in N. Wing of E. Abut. of existing bridge. Elev 683.72  
Existing Structure: Built as S.B.I. Rte 29, Sec. 12B in 1925  
E main spans thru truss and E RC approach spans. RC conc piers and abut. #DIO-0049  
The contractor shall remove the bridge after traffic has been detoured. No Salvage.



STATION 617+51  
BUILT 19 BY  
STATE OF ILLINOIS  
F.A.S. RT. 1518 SEC. 12BR-1  
PROJECT SP-S-1518(101)  
LOADING HS 20

NAME PLATES  
(See Sta. 6113)



\*Elevations are on E. Rwy, not profile grade.

PLAN

WATERWAY INFORMATION

Drainage Area: 562.50 Miles  
Character: level, rolling, wooded, cultivated  
Present Opening: 3305.50 FT  
Road Opening: 4100.50 FT  
Proposed Opening: 4100.50 FT  
Q50: 1660 cfs  
Q100: 2050 cfs  
Created Head: 0.21' (100 yr)  
0.40' (100 yr)  
High Water Elev: 683.82 (50 yr)  
687.29 (100 yr)

DESIGN STRESSES

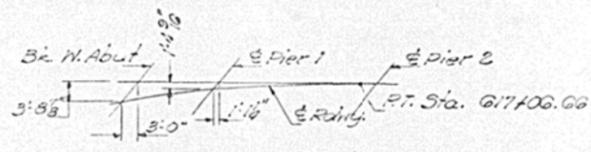
FIELD UNITS  
fc: 3500 psi. (Super)  
fc: 1400 psi. (Sub)  
fp: 20000 psi. (Reinf. Sub & Parapet)  
fy: 40,000 psi. (Reinf. Slab & Curb)  
n: 10

PRECAST PRESTRESSED UNITS

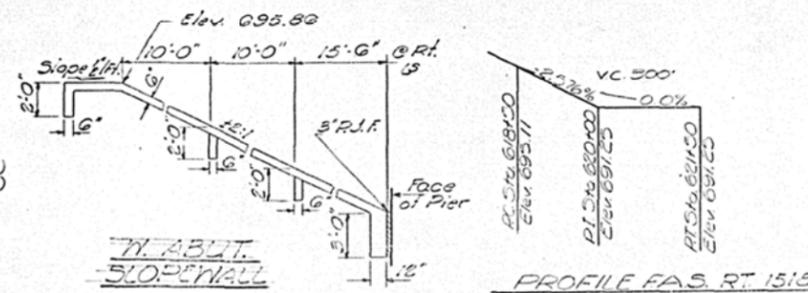
fc: 6000 psi.  
fc: 3000 psi.  
fs: 270000 psi. (41 Strands)  
fs: 189,000 psi. (21 Strands)

Allow 25 Lbs/30 Ft for Fat WS

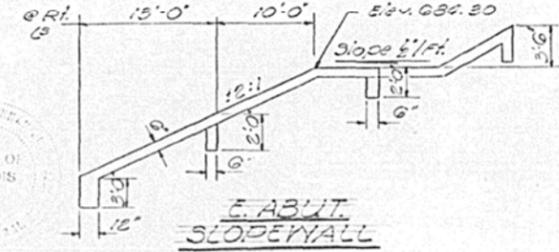
LOADING HS20-44



OFFSET SKETCH  
2-2552-18 (E. Rwy)



PROFILE F.A.S. RT. 1518



E. ABUT. SLOPE WALL



LOCATION SKETCH

GENERAL NOTES

All structural steel shall be shop painted with two coats of basic lead silico-chromate paint.  
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq ft.  
Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.  
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.  
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.  
The Contractor shall drive four test piles (See sheets #12, #14, #16, #17) in a permanent location as directed by the Engineer before ordering the remainder of piles.  
See Proposal for Boring Log.  
The Stations follow the E. Rwy. The profile grade follows the forward tangent in Spans 1 & 2 and the E. Rwy. Spans 3 thru 5.  
The Gas Main, and the Gaging Station on the south side of existing structure, shall be relocated or modified as necessary by the respective owners.

METAL SHELL PILING WERE ULTIMATELY USED ON WEST ABUTMENT WHERE NONE WERE SHOWN ON ORIGINAL PLANS. ORDERED 50' x 13 PILE

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yds.		490	490
Bit. Conc. Surf. Cst. Cl. I	Tons	85		85
Removal of Exst. Structure	Each			1
Protective Coat	Sq. Yds.	390		390
Class A Concrete	Cu. Yds.		548.5	548.5
Class X Concrete	Cu. Yds.	571.3	1070	1641.3
Precast Prestressed Conc. I 3ms. (41)	Lin. Ft.	284		284
Precast Prestressed Conc. I 3ms. (21)	Lin. Ft.	2324		2324
Waterproofing Membrane Sys.	Sq. Yds.	1571		1571
Structural Steel	Lbs.	3110		3110
Reinforcement Bars	Lbs.	146,000	37,020	183,020
Steel Piles (HP 3x50)	Lin. Ft.		3008	3008
Test Piles Steel (HP 8x33)	Ea.		4	4
Name Plates	Ea.		1	1
Slope Wall (6')	Sq. Yds.		629	629
Preformed Fr. Slab (24)	Lin. Ft.	48		48
Neoprene Expansion Jt. (6')	Lin. Ft.	87		87
Drainage Scrapers	Ea.	10		10
Cofferdam Excavation	Cu. Yds.		517	517
Cofferdam (Pier #1)	Each		1	1
Cofferdam (Pier #2)	Each		1	1
Channel Excavation	Cu. Yds.		6201	6201
Deal Coat Concrete	Cu. Yds.		138	138

AS REVISED 1-4-79 R.T.R.  
GENERAL PLAN and ELEVATION  
F.A.S. RT. 1518 over SANGAMON R.V.  
F.A.S. RT. 1518 SEC. 12BR-1  
CHAMPAIGN COUNTY  
STATION 617+51

DESIGNED R. T. ROBERT  
CHECKED J. SCHWELER  
DRAWN J. SCHWELER  
CHECKED J. SCHWELER

SEPTEMBER 4 1975  
EXAMINED J. SCHWELER  
PASSED  
APPROVED

Rev. 5-19-78 R.T.R.







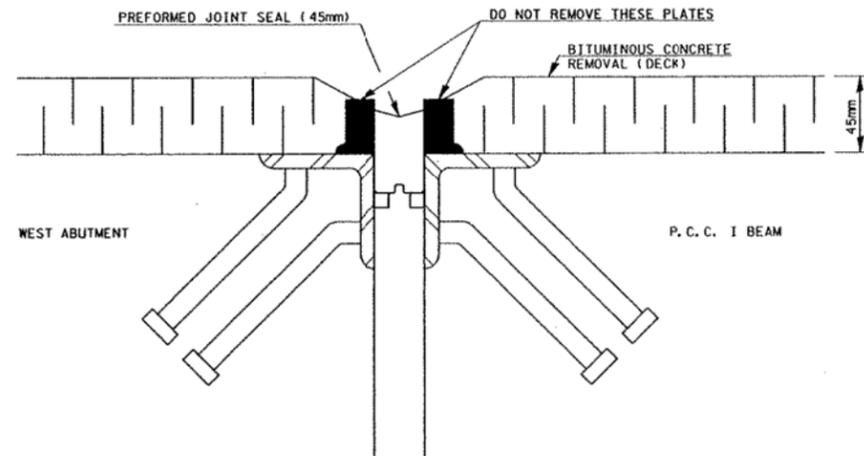
FOR INFORMATION ONLY

••DATE••

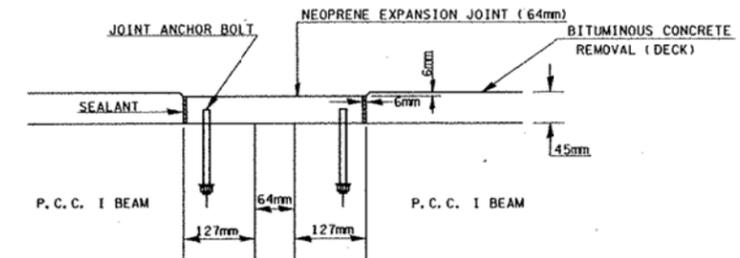
JOINT RECONSTRUCTION DETAIL SHEET  
STRUCTURE 010-0235

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	CHAMPAIGN	409	148
* FAP 326 & FAS 532				
** 136RS-4, 137RS-1 & 5RS-3				

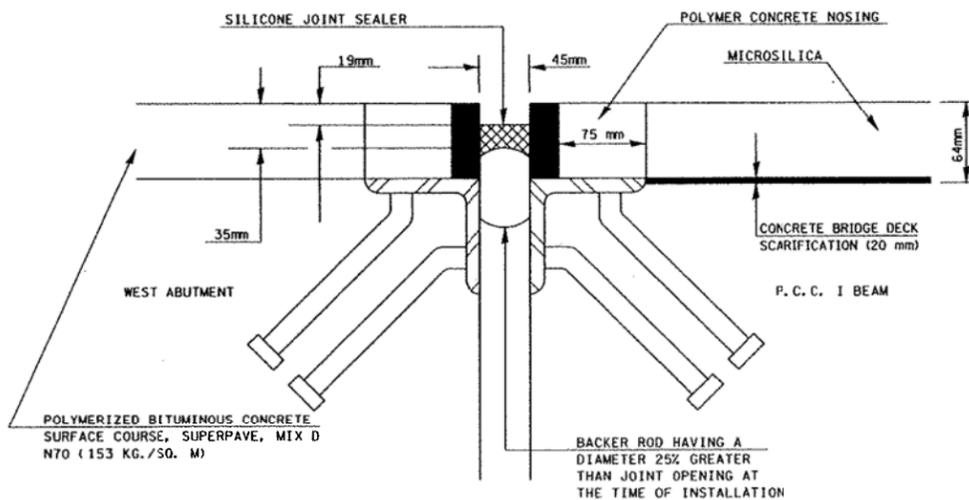
EXISTING SECTION THRU WEST ABUTMENT  
STRUCTURE 010-0235



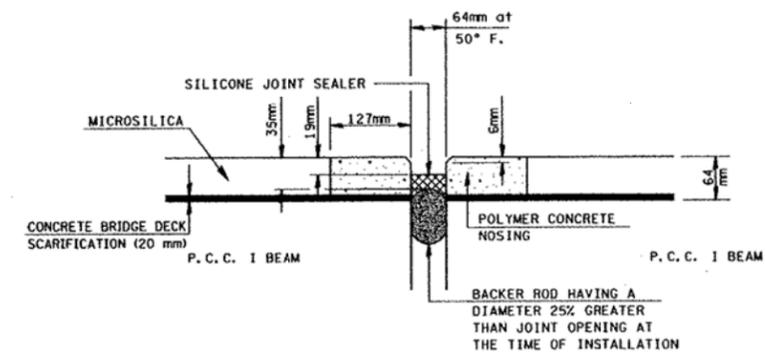
EXISTING SECTION THRU PIER 1  
STRUCTURE 010-0235



PROPOSED SECTION THRU WEST ABUTMENT  
STRUCTURE 010-0235



PROPOSED SECTION THRU PIER 1  
STRUCTURE 010-0235



•DCN-SPEC•

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

AS-BUILT 2001  
FOR INFORMATION ONLY

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

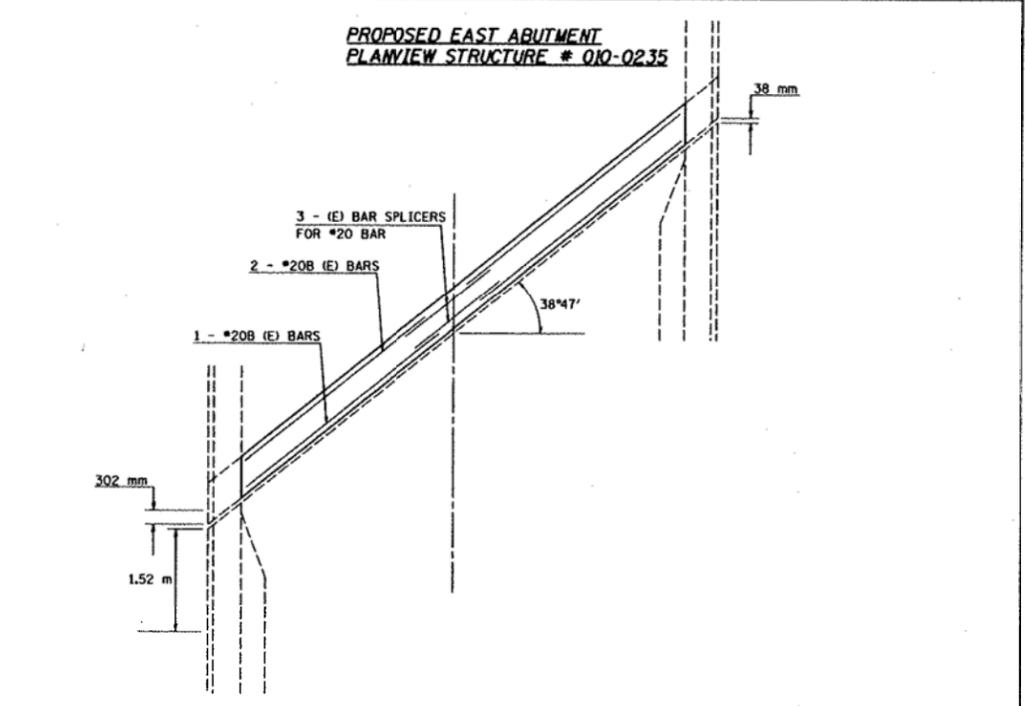
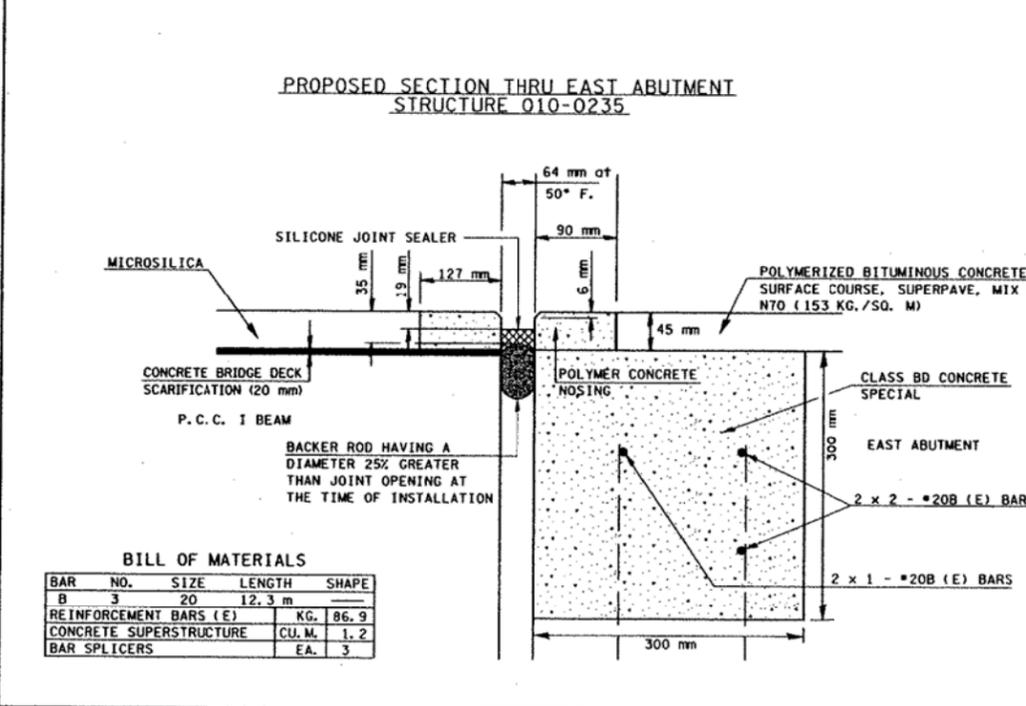
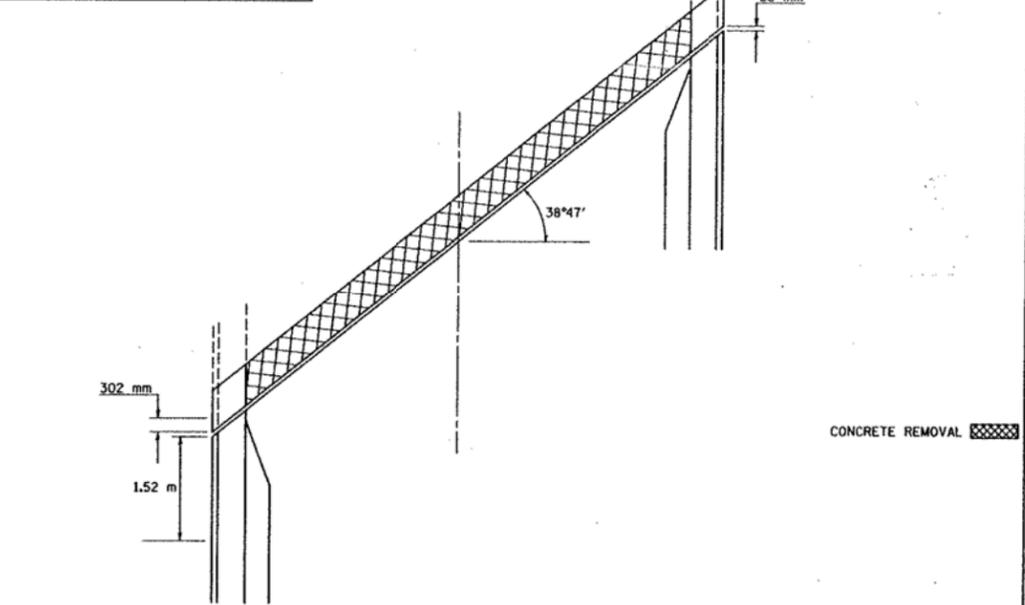
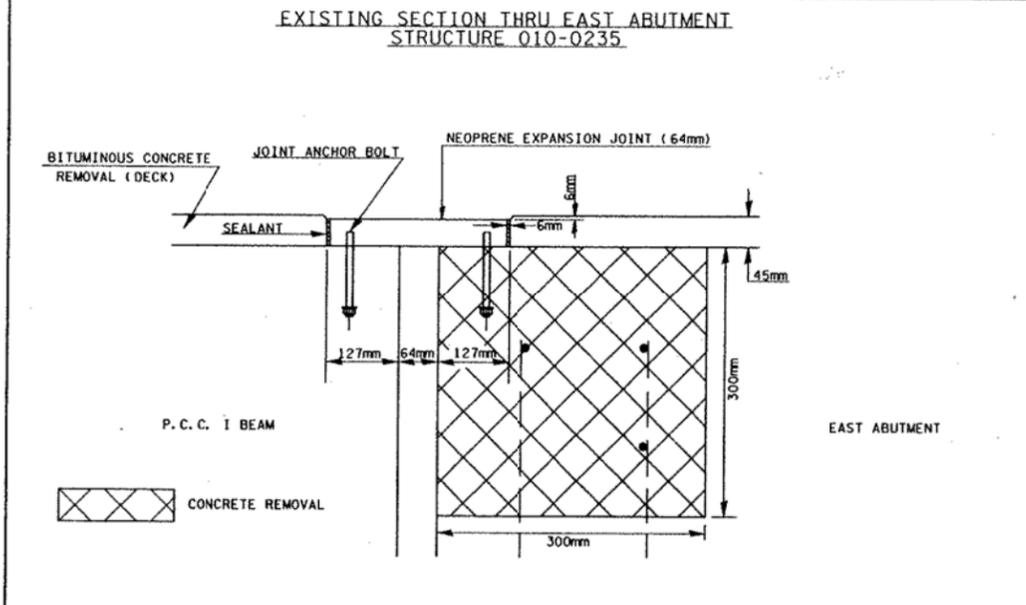
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	21
				CONTRACT NO. 70C34
ILLINOIS FED. AID PROJECT				

DATE

**JOINT RECONSTRUCTION DETAIL SHEET  
STRUCTURE 010-0235**

**EXISTING EAST ABUTMENT  
PLANVIEW STRUCTURE # 010-0235**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	CHAMPAIGN	409	149
* FAP 326 & FAS 532 ** 126RS-4, 137RS-1 & SRS-3				



**BILL OF MATERIALS**

BAR NO.	SIZE	LENGTH	SHAPE
B	20	12.3 m	
REINFORCEMENT BARS (E)		KG.	86.9
CONCRETE SUPERSTRUCTURE		CU. M.	1.2
BAR SPLICERS		E.A.	3

CLASS S1 CONCRETE SPECIAL

\*DGN-SPEC\*

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -
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		DATE -	REVISED -

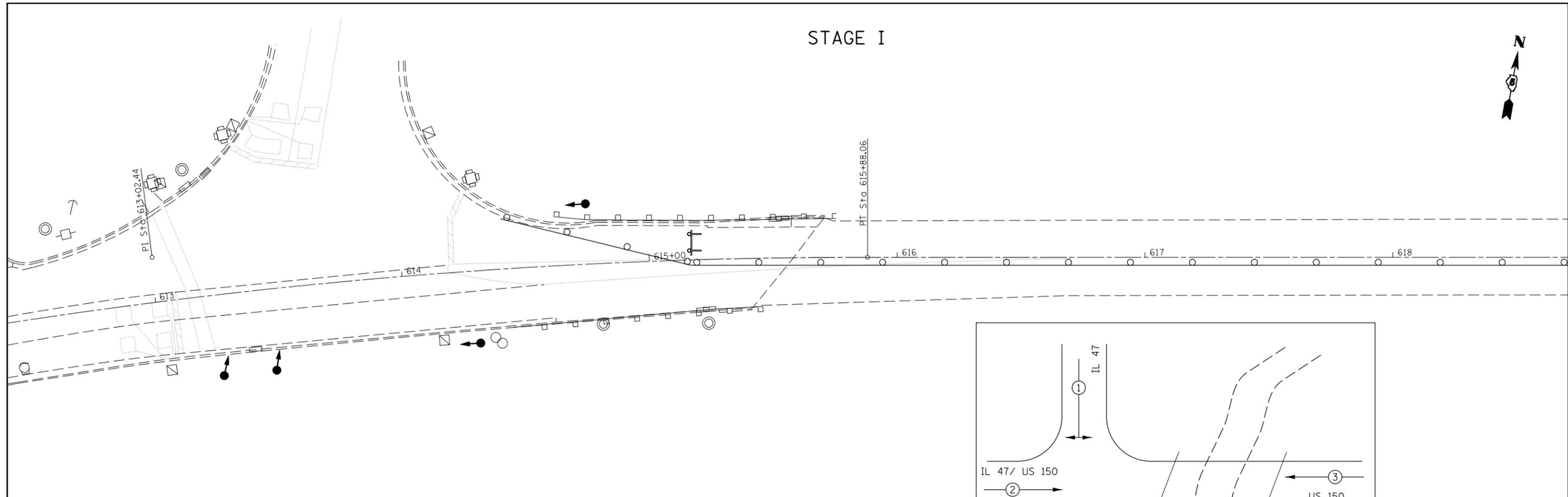
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT 2001  
FOR INFORMATION ONLY**

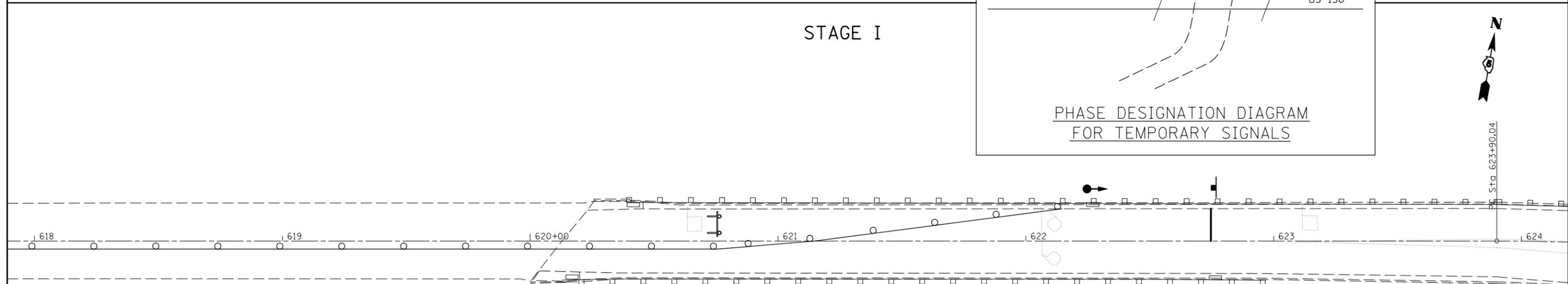
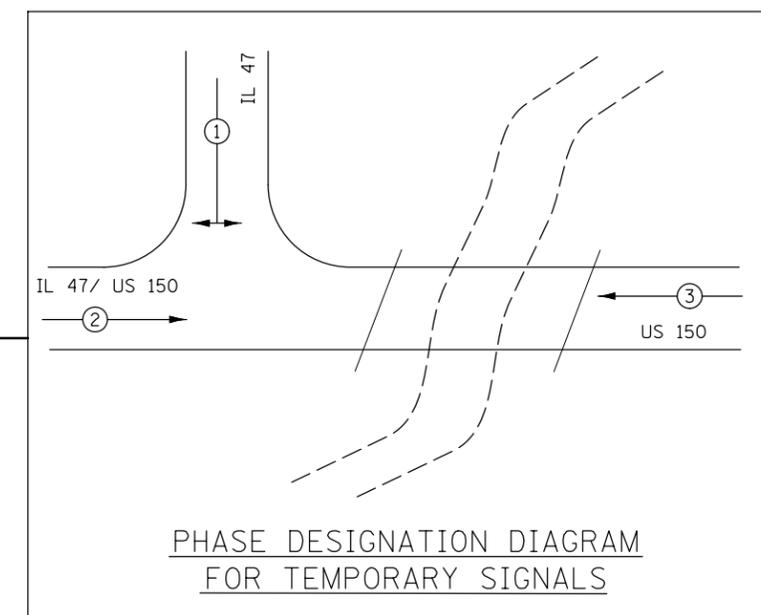
SCALE:	SHEET 6 OF 6 SHEETS	STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	22
				CONTRACT NO. 70C34
ILLINOIS FED. AID PROJECT				

STAGE I



STAGE I

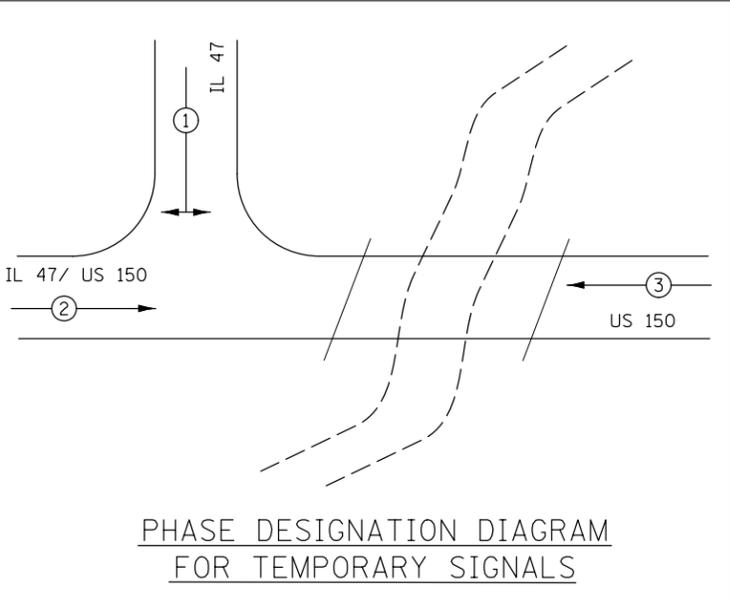
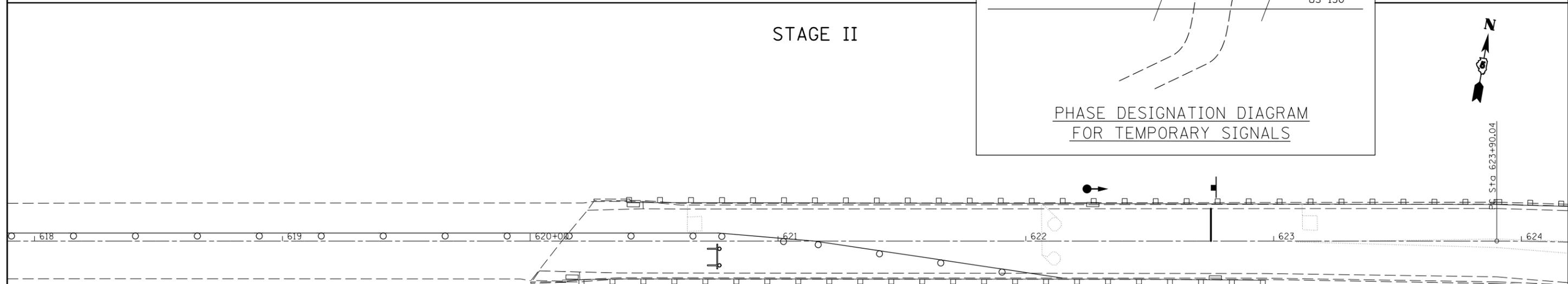
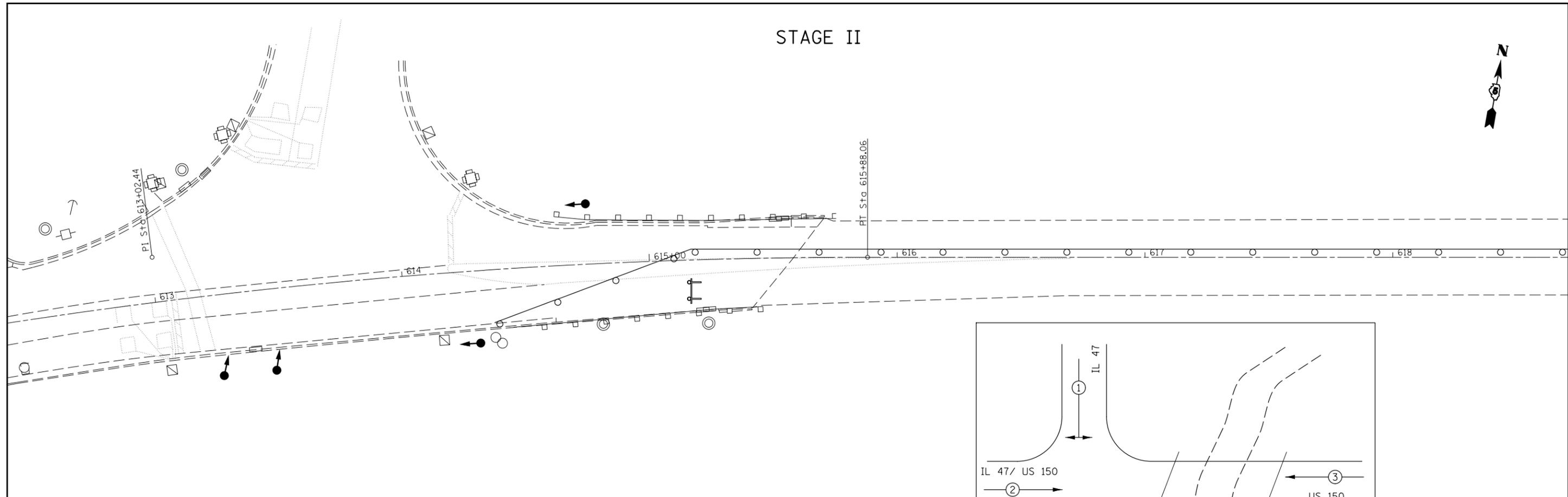


-  TEMPORARY TRAFFIC SIGNAL
-  TYPE III BARRICADE WITH FLASHING LIGHTS

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMP. BRIDGE TRAFFIC SIGNALS &amp; GENERAL LAYOUT OF 701316</b>				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/8/2016											ILLINOIS FED. AID PROJECT	

STAGE II

STAGE II



-  TEMPORARY TRAFFIC SIGNAL
-  TYPE III BARRICADE WITH FLASHING LIGHTS

FILE NAME =	USER NAME = garvered	DESIGNED -	REVISED -
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*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMP. BRIDGE TRAFFIC SIGNALS &  
GENERAL LAYOUT OF 701316

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	(12BR-1)BJR	CHAMPAIGN	24	24
CONTRACT NO. 70C34			ILLINOIS FED. AID PROJECT	