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B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

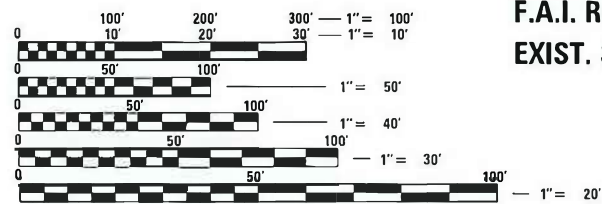
TR 134 (IRONS ROAD) – YEAR 2020

AADT: 325
 SU:
 MU:

I-74 – YEAR 2019

AADT: 23900
 SU: 900
 MU: 3650

PROJECT LOCATION
TR 134 (IRONS ROAD) OVER
F.A.I. ROUTE 74 (I-74)
EXIST. SN 102-0034



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 EXCAVATORS
 1-800-892-0123
 OR 811

PROJECT ENGINEER: RICH DOTSON, PE (309) 671-3455
 PROJECT MANAGER: ALEX JETTE (309) 671-3471

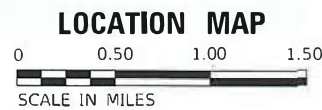
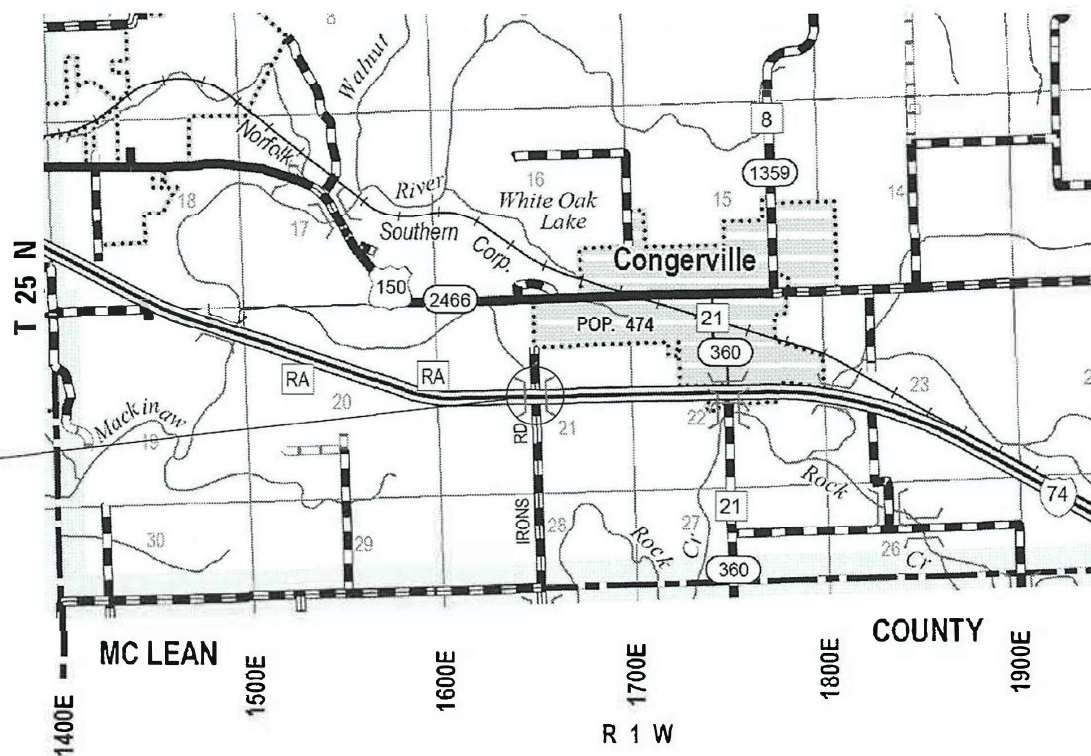
CONTRACT NO. 68G65 CATALOG NO. 036252-00D

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 HIGHWAY PLANS**

**TR 134 (IRONS ROAD) OVER F.A.I. ROUTE 74 (I-74)
 SECTION (X3-17HB)BRR
 PROJECT
 BRIDGE REPAIR
 WOODFORD COUNTY**

C-94-089-21



Expiration: 11/30/2023



BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.

403 NORTH COURT STREET MARION, IL 62959 PHONE - 618.927.9190
 421 S. GRAND AVENUE WEST SPRINGFIELD, IL 62704 PHONE - 217.879.6254
 907 ARROW ROAD, SUITE 2 CHAMPAIGN, IL 61821 PHONE - 217.536.4283

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	1
		ILLINOIS	CONTRACT NO. 68G65	

D-94-067-21



LOCATION OF SECTION INDICATED THIS: - [Symbol]

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES REPAIRS TO SN 102-0034 SUCH AS BEARING REPLACEMENT, SUBSTRUCTURE REPAIR AND OTHER RELATED WORK.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED April 11, 2022
 [Signature] REGIONAL ENGINEER

May 13, 2022 [Signature] ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS**

GENERAL NOTES

105.06 AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

204.00 ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- * BDE FORM 2289 (BORROW SITE REVIEW)
- * BDE FORM 2290 (WASTE/USE AREA REVIEW)
- * A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- * COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- * BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

701.01 ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

THE DEPARTMENT RESERVES THE RIGHT AT ANY TIME TO ADD ADDITIONAL TRAFFIC CONTROL SYSTEMS OR DEVICES WITHIN THE ACTIVE CONTRACT LIMITS, BY MEANS OF AN ADDITIONAL CONTRACT. ALL TERMS OF ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS SHALL BE FOLLOWED BY EACH CONTRACTOR.

720.00 SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

UTILITY COORDINATION

NO UTILITIES INTERFERE WITH THIS PROJECT.

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE. THERE ARE NO COMMITMENTS FOR THIS PROJECT.

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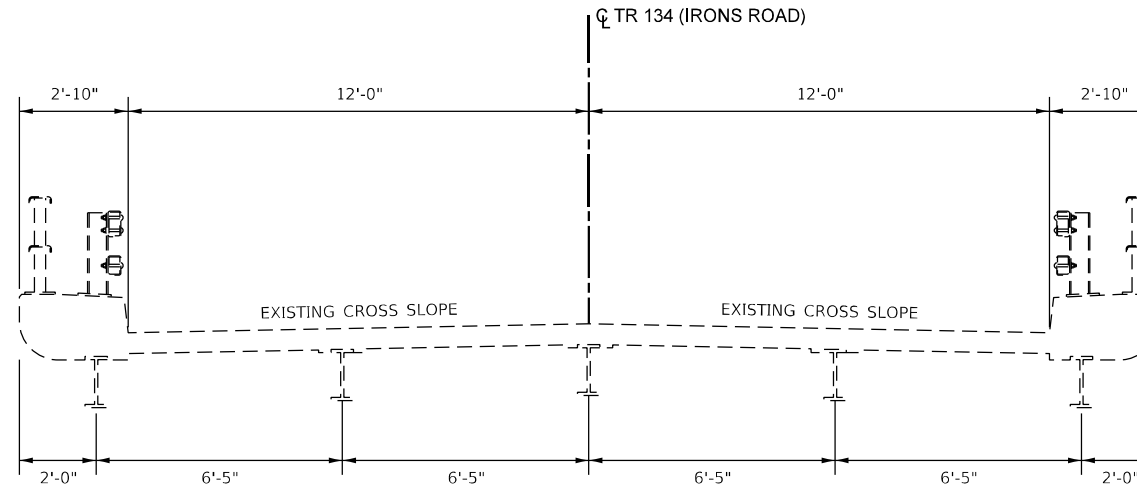
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, UTILITY COORDINATION & COMMITMENTS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	2
CONTRACT NO. 68G65				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION TR 134 (IRONS ROAD)

ALONG EXISTING SN 102-0034 CROSSING F.A.I. ROUTE 74 (I-74)
(SEE STRUCTURES SHEETS FOR ADDITIONAL INFORMATION)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TR 134 (IRONS ROAD) EXISTING TYPICAL SECTION	
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	4
CONTRACT NO. 68G65				
ILLINOIS FED. AID PROJECT				

DETOUR SIGNING

(FOR INFORMATION ONLY)

SIGN ID	DESCRIPTION	SIGN NUMBER	SIGN SIZE			TOTAL NUMBER OF SIGNS	TEMPORARY SIGN PANEL ASSEMBLY SQ FT
			LENGTH (INCH)	HEIGHT (INCH)	AREA SQ FT		
M4-9	DETOUR (UP ARROW)		30	24	5.00	1	5.00
M4-9L	DETOUR (LEFT)		30	24	5.00	4	20.00
M4-9R	DETOUR (RIGHT)		30	24	5.00	3	15.00
W16-5PL	SUPPLEMENTAL ARROW (LEFT)		24	18	3.00	2	6.00
W16-5PR	SUPPLEMENTAL ARROW (RIGHT)		24	18	3.00	2	6.00
W20-2	DETOUR AHEAD		36	36	9.00	3	27.00
W20-3	ROAD CLOSED AHEAD		36	36	9.00	6	54.00
SPECIAL	TR 134		30	12	2.50	7	17.50
R11-3A	ROAD CLOSED - LOCAL TRAFFIC ONLY		60	30	12.50	2	25.00
*	TYPE III BARRICADE W/ WARNING LIGHTS		48	60	20.00	2	N/A
TOTALS						32	175.50

* TO BE USED WITH R11-3A

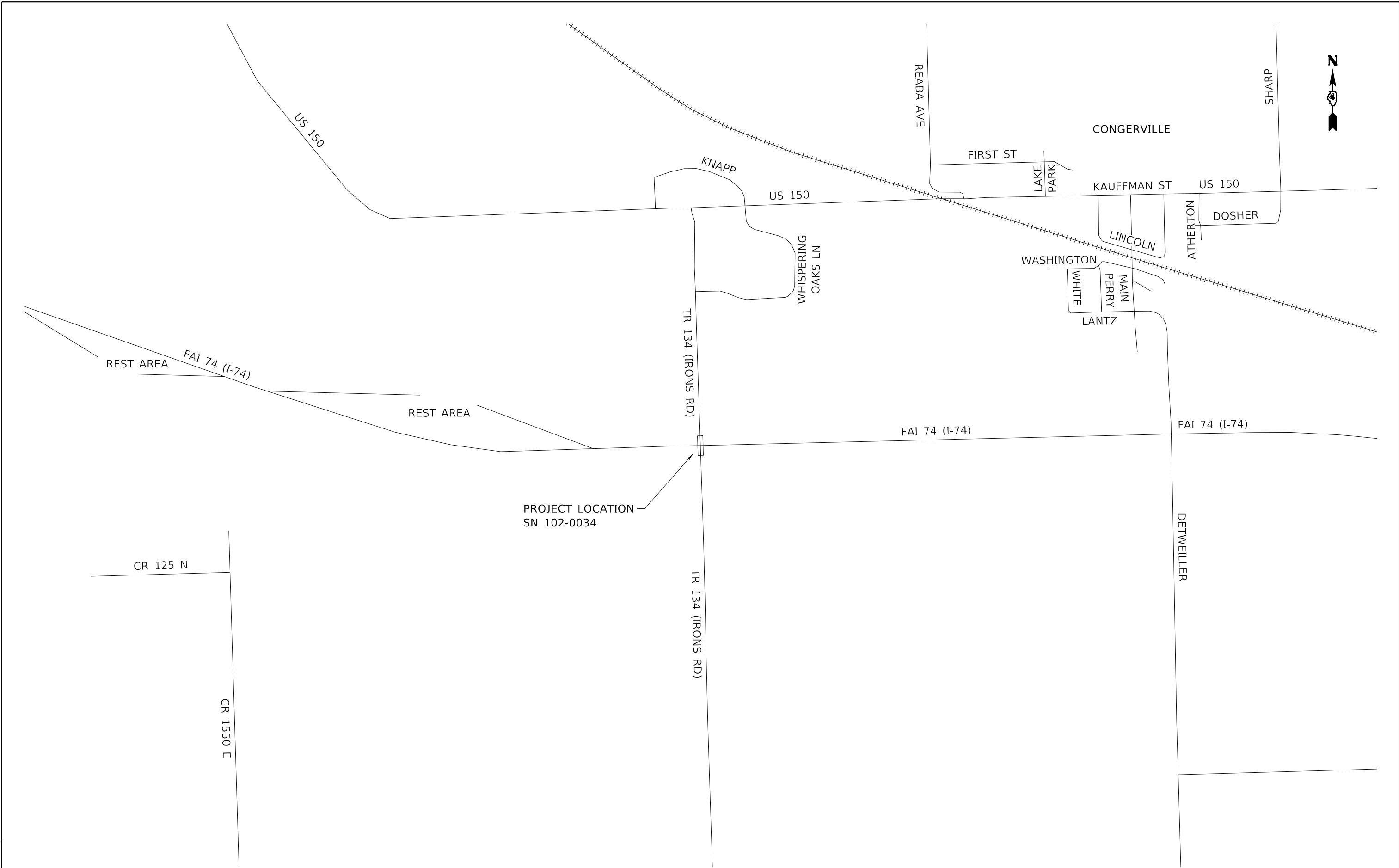
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES	
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	5
CONTRACT NO. 68G65				
ILLINOIS FED. AID PROJECT				



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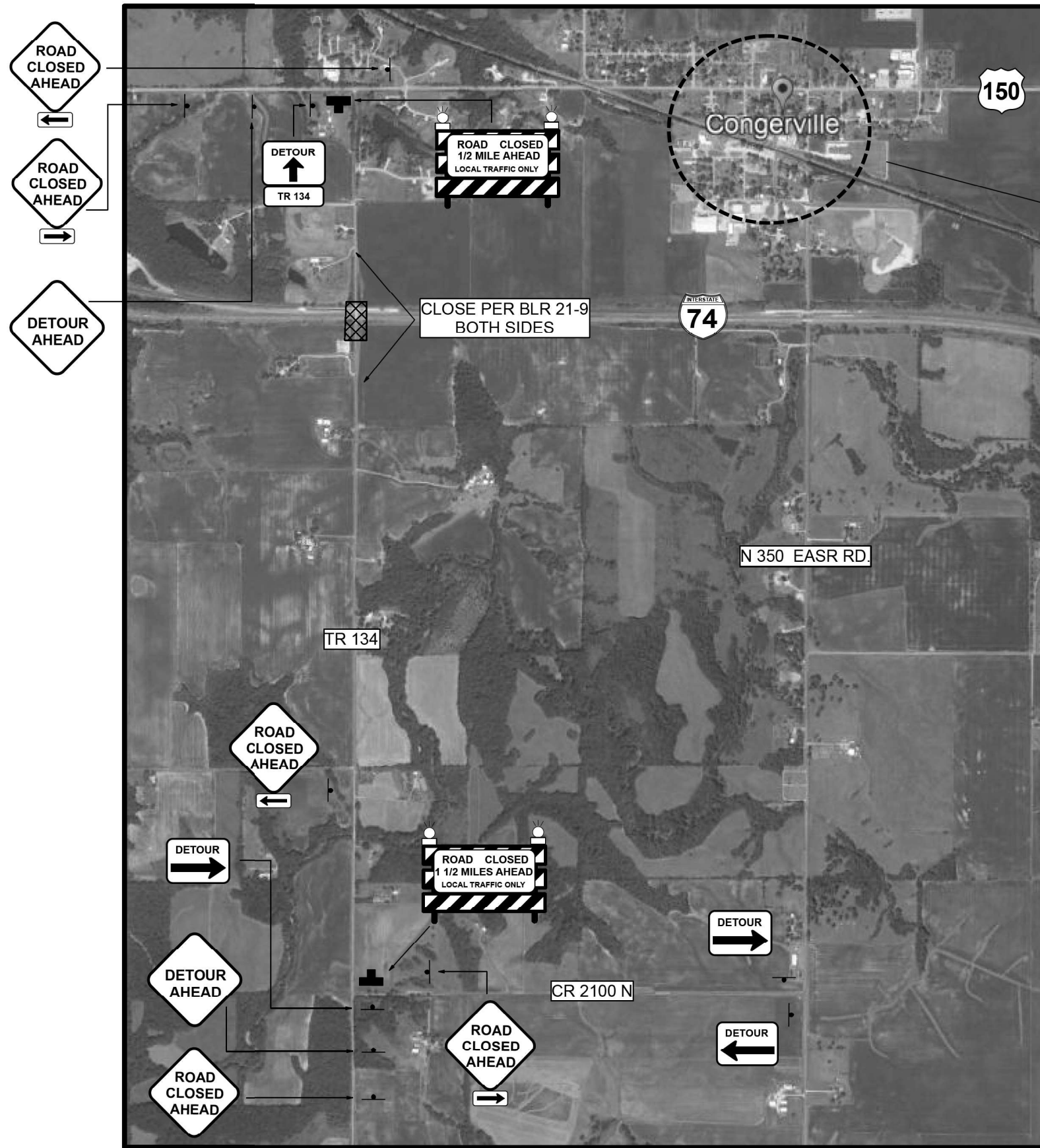
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LINE DIAGRAM
 TR 134 (IRONS ROAD) OVER F.A.I. ROUTE 74 (I-74)**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	6
CONTRACT NO. 68G65				
ILLINOIS FED. AID PROJECT				



DETOUR/CLOSURE TR 134



TR 134 (IRONS ROAD) TO BE CLOSED PER BLR 21-9 ON BOTH SIDES OF SN 102-0034. ONE (1) CHANGEABLE MESSAGE BOARD SHALL BE PLACED ON EACH SIDE OF THE CLOSURE FOR SEVEN (7) DAYS IN ADVANCE OF THE CLOSURE AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. THE CHANGEABLE MESSAGE BOARDS WILL BE PAID FOR SEPARATELY FROM OTHER TRAFFIC CONTROL ITEMS.

NOTES

PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.

ANY IDOT SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

THE DETOUR IS REQUIRED TO REMAIN IN PLACE UNTIL THE WORK NECESSARY TO REPAIR STRUCTURE 102-0034 HAS BEEN COMPLETED.

SEE STANDARDS 701101, 701400, 701406 AND BLR 21 FOR ADDITIONAL INFORMATION.

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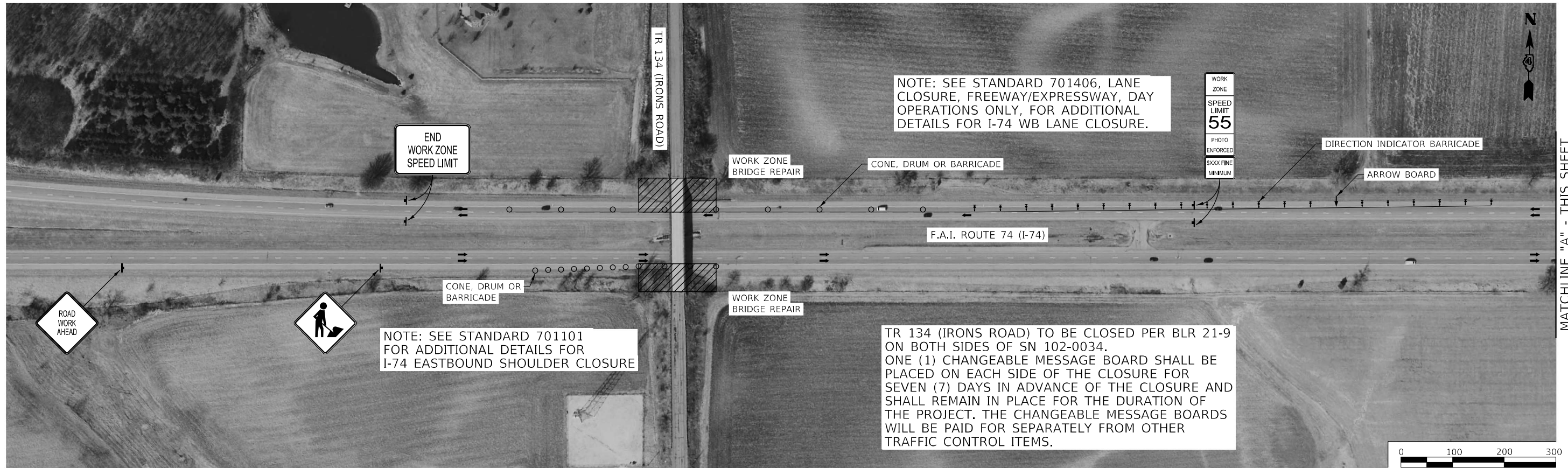
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

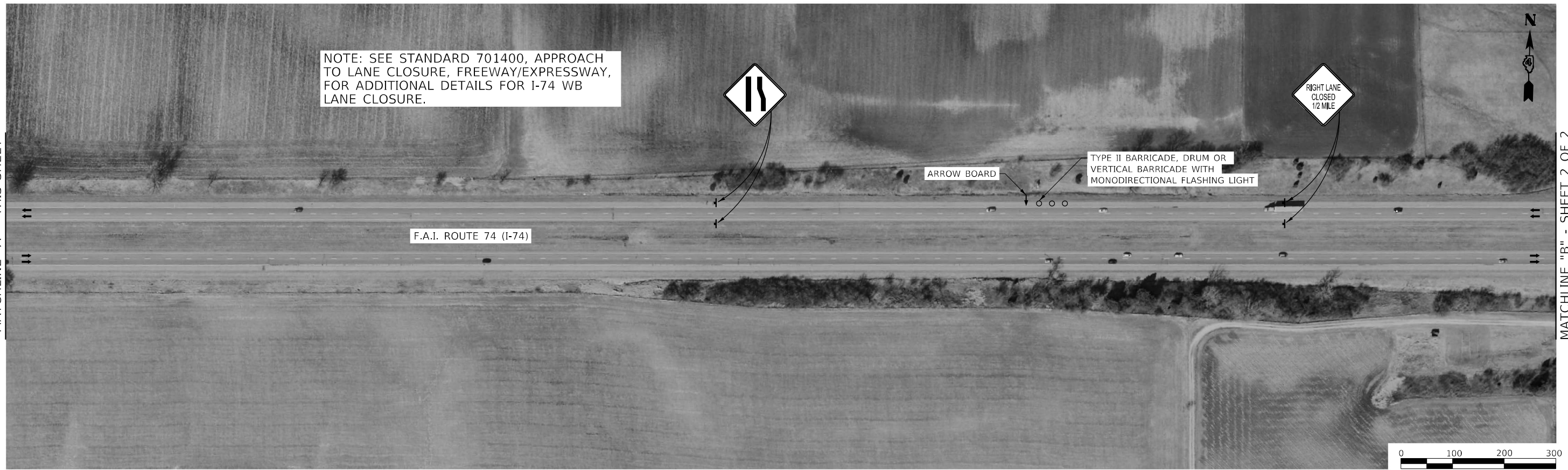
**ROAD CLOSURE AND DETOUR
TR 134 (IRONS ROAD) OVER F.A.I. ROUTE 74 (I-74)**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	7
CONTRACT NO. 68G65				
ILLINOIS FED. AID PROJECT				



MATCHLINE "A" - THIS SHEET



MATCHLINE "A" - THIS SHEET

MATCHLINE "B" - SHEET 2 OF 2

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 74 (I-74) - SHOULDER CLOSURE AND LANE CLOSURE
TRAFFIC CONTROL PLAN SN 102-0034**

SCALE: 1"=100' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	8
			CONTRACT NO. 68G65	
ILLINOIS FED. AID PROJECT				

MATCHLINE "B" - SHEET 1 OF 2



F.A.I. ROUTE 74 (I-74)

TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

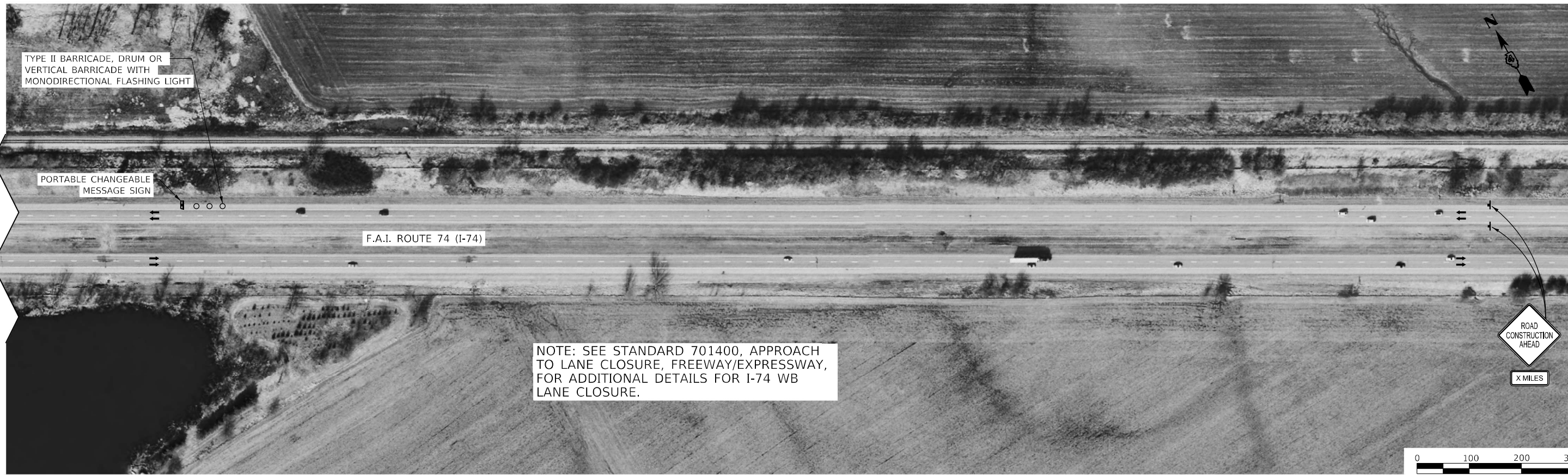
TRAILER MOUNTED SPEED DISPLAY SIGN

WORK ZONE
SPEED LIMIT 55
PHOTO ENFORCED
\$XXX FINE
MINIMUM

SPEED LIMIT 55

RIGHT LANE CLOSED 1 MILE

NOTE: SEE STANDARD 701400, APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY, FOR ADDITIONAL DETAILS FOR I-74 WB LANE CLOSURE.



TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

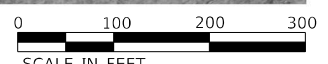
PORTABLE CHANGEABLE MESSAGE SIGN

F.A.I. ROUTE 74 (I-74)

NOTE: SEE STANDARD 701400, APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY, FOR ADDITIONAL DETAILS FOR I-74 WB LANE CLOSURE.

ROAD CONSTRUCTION AHEAD

X MILES



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

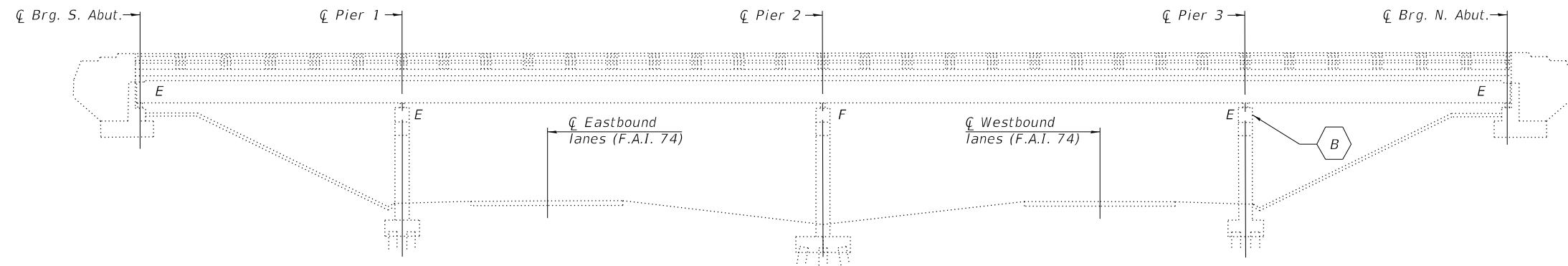
F.A.I. ROUTE 74 (I-74) - SHOULD CLOSURE AND LANE CLOSURE
TRAFFIC CONTROL PLAN SN 102-0034

SCALE: 1"=100' SHEET 2 OF 2 SHEETS STA. TO STA.

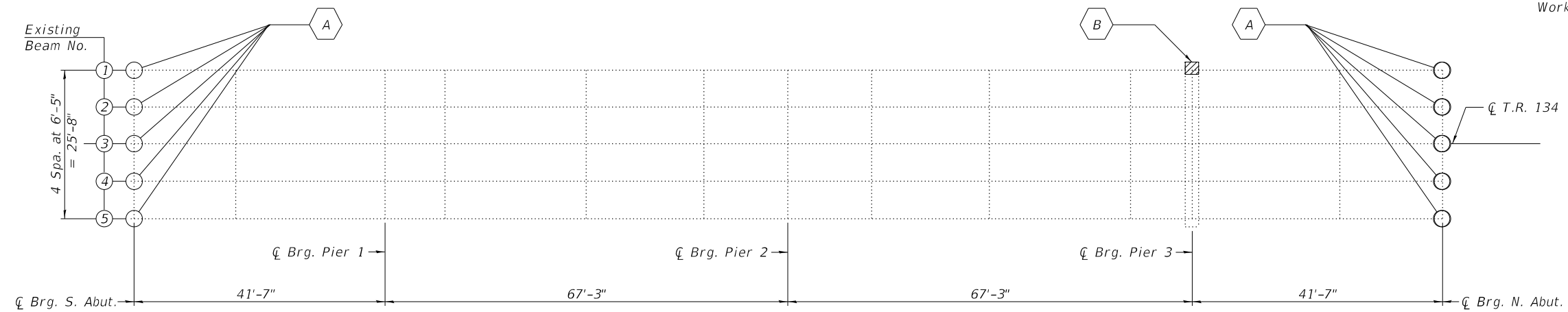
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	9
CONTRACT NO. 68G65				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M 270 Gr. 36 unless otherwise noted.
 All new structural steel, bolts, bearing assemblies, nuts and washers shall be hot-dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel."
 Fasteners shall be high strength bolts. Bolts 3/4 in. Ø, holes 13/16 in. Ø, unless otherwise noted.
 No field welding is permitted except as specified in the contract documents.
 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.
 Existing structural steel shall only be cleaned and painted as required by the Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 Unless otherwise specified, 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 Furnishing and Erecting Structural Steel.
 Work to be completed under road closure.



ELEVATION



FRAMING PLAN

- A - Remove and replace existing bearings
- B - Substructure Repair with Temporary Shoring and Cribbing

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 Bearing Replacement Details - Repair A
- 3 Substructure Repair Details - Repair B
- 4-9 Abbreviated Original Bridge Plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnishing and Erecting Structural Steel	Pound	1460
Elastomeric Bearing Assembly Type I	Each	10
Anchor Bolts, 5/8"	Each	40
Jack and Remove Existing Bearings	Each	10
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	20.9
Temporary Shoring and Cribbing	Each	1

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BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 421 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 217.675.0254

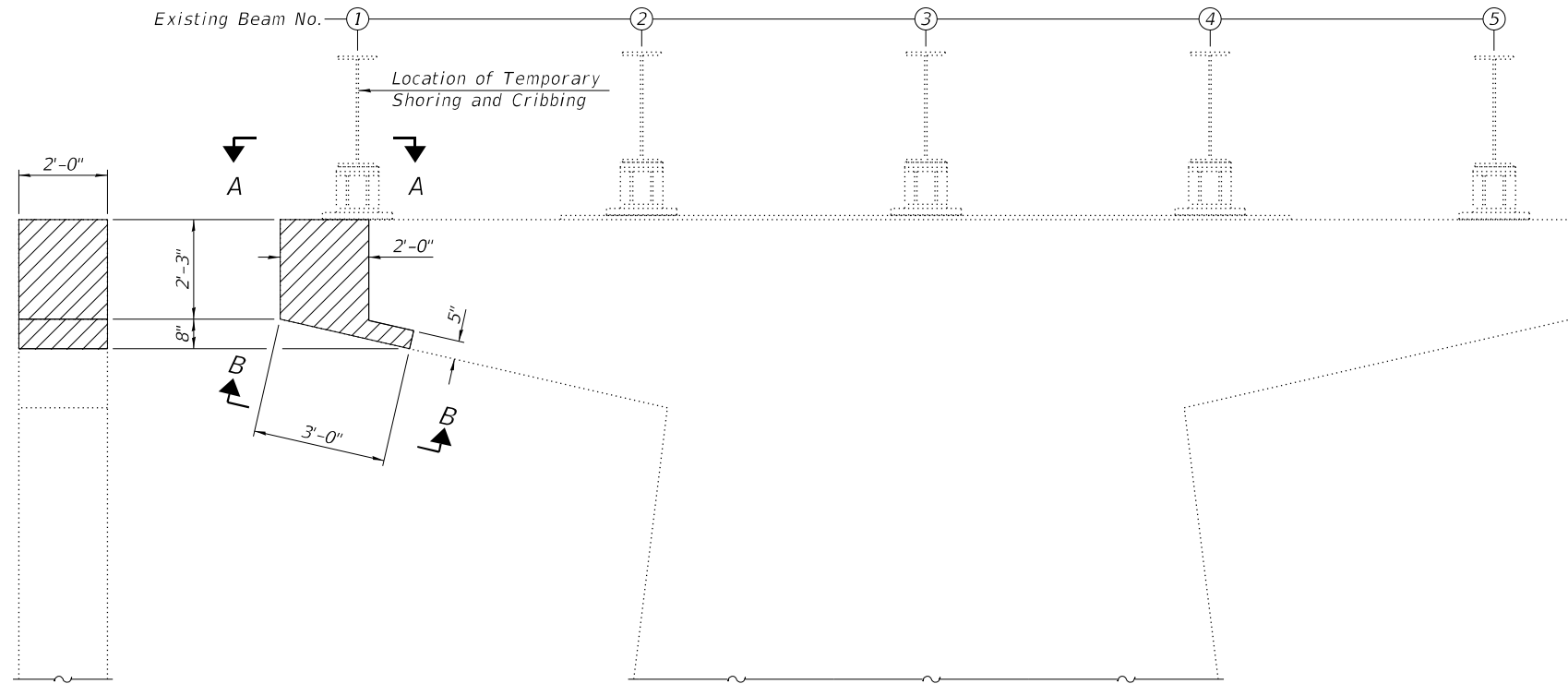
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 102-0034
 SHEET 1 OF 9 SHEETS

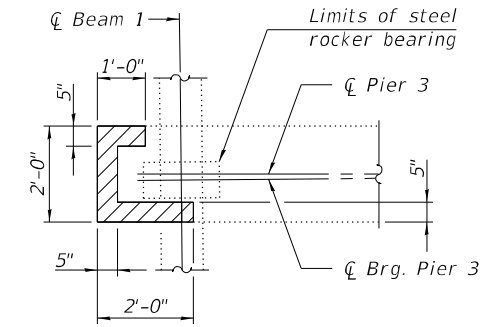
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	10
CONTRACT NO. 68G65				
		ILLINOIS	FED. AID PROJECT	

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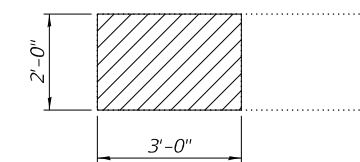


PIER 3 - WEST FACE
 (Looking East)


PIER 3 - SOUTH FACE
 (Looking North)



VIEW A-A

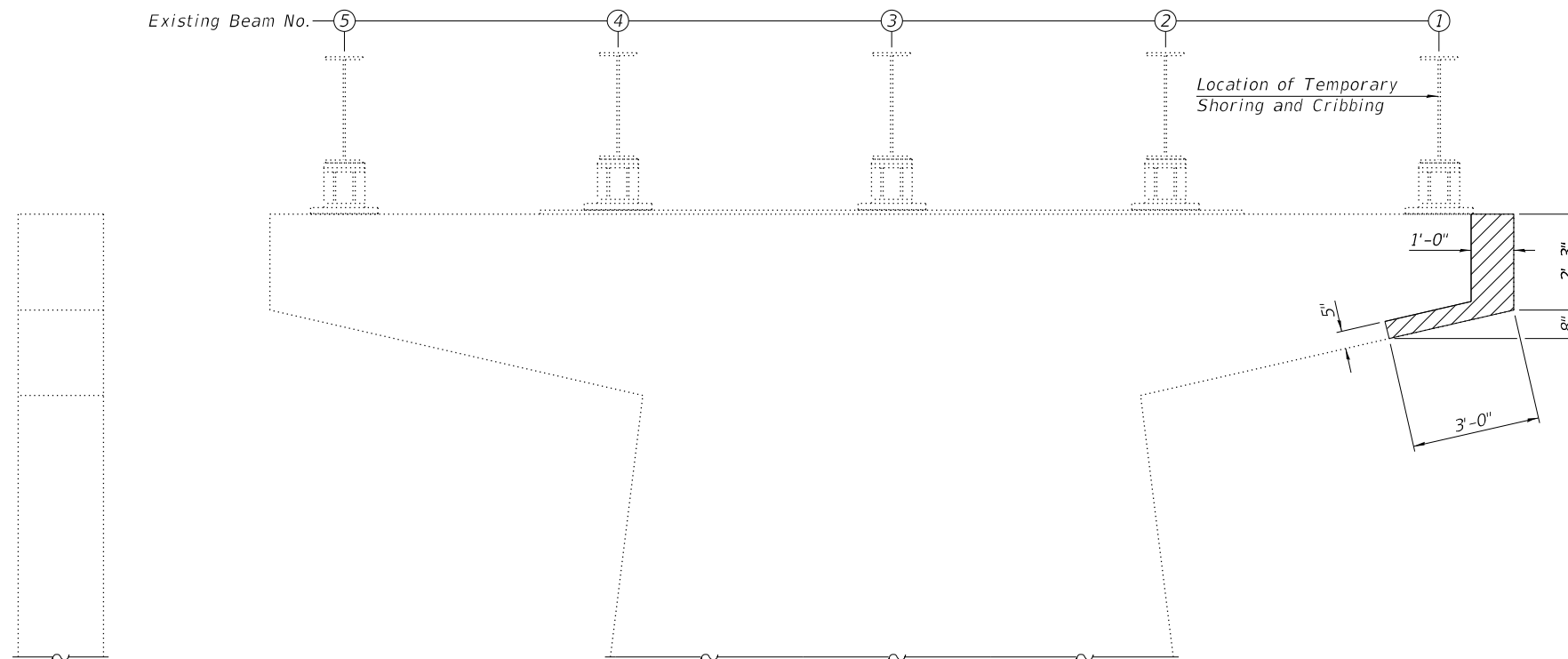


VIEW B-B

 - Estimated area of Structural Repair of Concrete (Depth Equal to or Less Than 5") for bidding purposes. The final limits of the areas to be repaired shall be determined by the Engineer at time of construction and as specified in the Special Provision for Structural Repair of Concrete.

EXTERIOR BEAM REACTION TABLE

		Pier 3
$R_{\bar{L}}$	(k)	60.4
$R_{\bar{L}}$	(k)	39.8
R_I	(k)	11.1
R_{Total}	(k)	111.3



PIER 3 - EAST FACE
 (Looking West)

PIER 3 - NORTH FACE
 (Looking South)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	20.9
Temporary Shoring and Cribbing	Each	1

BACON FARMER WORKMAN ENGINEERING & TESTING, INC. 431 SOUTH GRAND AVE. WEST SPRINGFIELD, ILLINOIS 62704 PHONE - 317.879.0254	USER NAME =	DESIGNED - JGY	REVISED -
		CHECKED - GBR	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

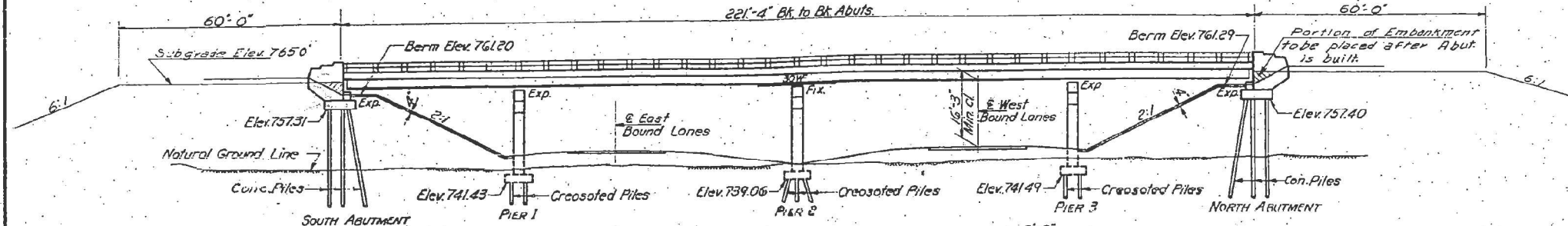
SUBSTRUCTURE REPAIR DETAIL - REPAIR B
STRUCTURE NO. 102-0034

F&I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	12
CONTRACT NO. 68G65				
		ILLINOIS	FED. AID PROJECT	

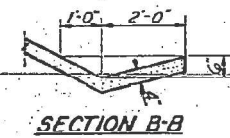
B.M.: U.S.C. & G.S. Benchmark "Cong"
174 Ft. L1 TR 134 Sta. 274+99 Elev. 742.63

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

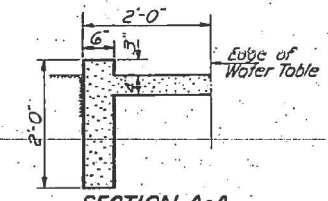
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174	X3-17HB	WOODFORD	25	5
SHEET NO. 1 OF 12 SHEETS				



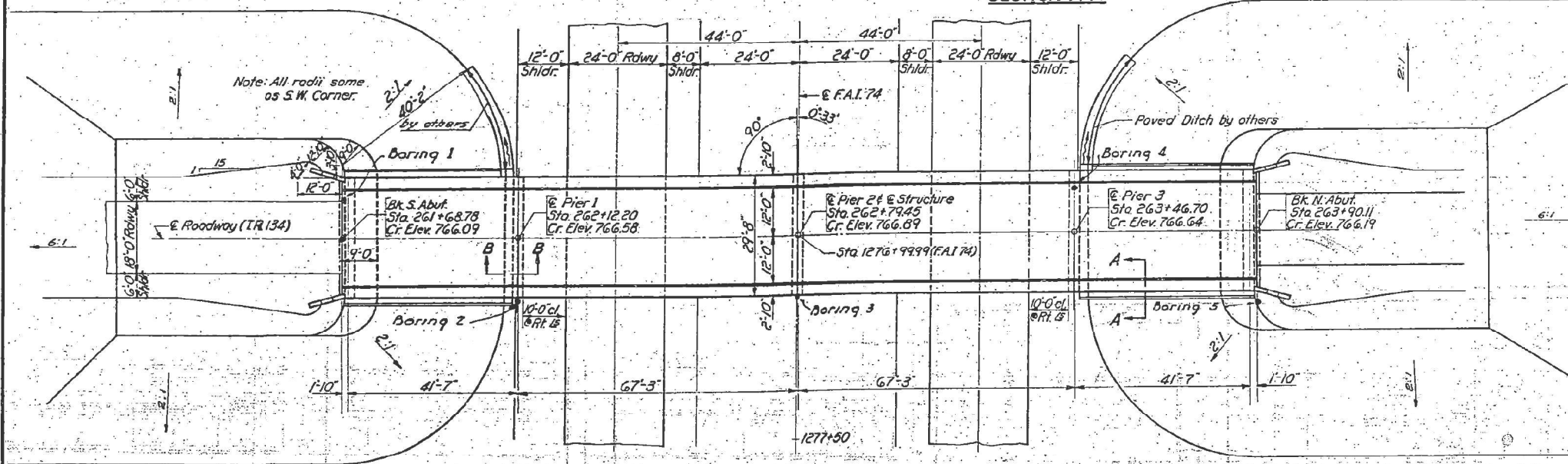
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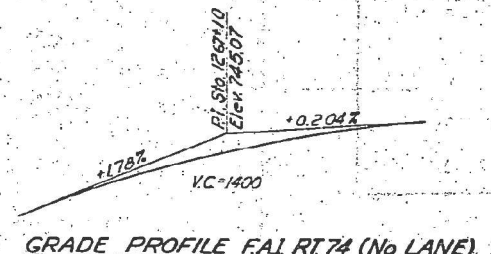
SECTION B-B



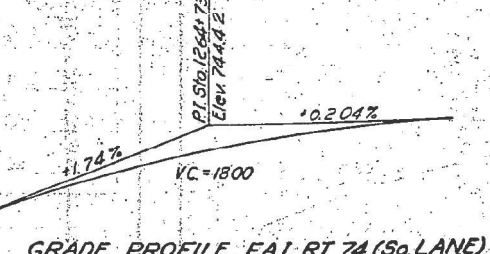
SECTION A-A



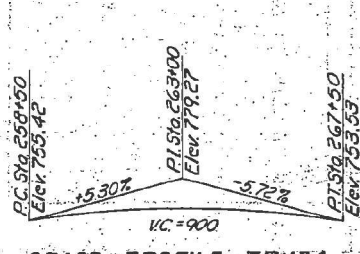
PLAN



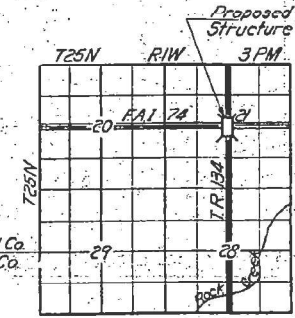
GRADE PROFILE FAI RT 74 (No. LANE)



GRADE PROFILE FAI RT 74 (So. LANE)



GRADE PROFILE T.R. 134



LOCATION PLAN

GENERAL NOTES

Class X concrete shall be used throughout.
Coarse aggregate which is to be used in end posts must be free of chert, flint, limonite, lignite and soft sandstone.
The concrete floor slab shall be finished in accordance with Article 5119 of the Standard Specifications.
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 58# per 100 sq. ft.
Rivets 3/8", Open holes 1 3/16", unless noted.
A-36 steel will be used throughout.

All bolsters, rockers, bearing plates, lead plates, shim plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 5115 of the Standard Specifications, and are included in the quantity of Structural Steel. Est. WT = 6,428#

Anchor bolts shall be set before riveting diaphragms over supports.

Expansion guards shall be fabricated and erected in accordance with Article 5113 (d) of the Standard Specifications and are included in the quantity of Structural Steel.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor.

The metal handrail shall be painted in accordance with Article 55.3 of the Standard Specifications.

Piles of abutments shall be driven in holes precored to natural ground line in accordance with Article 60.9 (c) of the Standard Specifications.

The Contractor shall drive one concrete test pile in a permanent location at No. Abutment and one timber test pile in the vicinity of Pier 2 before ordering remainder of piles.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu. Yds.		112	112
Class X Concrete	Cu. Yds.	181.7	165.5	347.2
Structural Steel	Lbs.	151,980		151,980
Metal Handrail	Lin. Ft.	438		438
Reinforcement Bars	Lbs.	34,540	14,360	48,900
Cresosoted Piles (concrete)	Lin. Ft.		1610	1610
Test Piles (Timber)	Each		1	1
Concrete Piles	Lin. Ft.		715	715
Test Piles (Concrete)	Each		1	1
Name Plates	Each		2	2
Slope Wall (4)	Sq. Yds.		376	376
Protective Coat	Sq. Yds.		770	770

DESIGNED: Eugene Beatty
CHECKED: [Signature]
DRAWN: J.L. Armstrong
CHECKED: Eugene Beatty

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

STATION 1276+99.99
BUILT 196 BY
STATE OF ILLINOIS
FAI RT. 74 SEC. X3-17HB
FA PROJ. 1-74-A (83)
LOADING H15-512

NAME PLATE LETTERING
See Standard 213

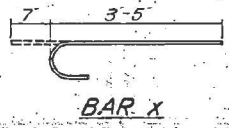
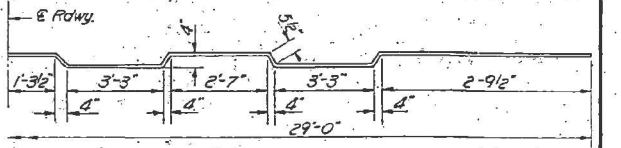
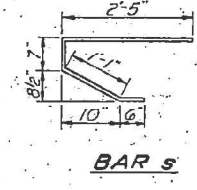
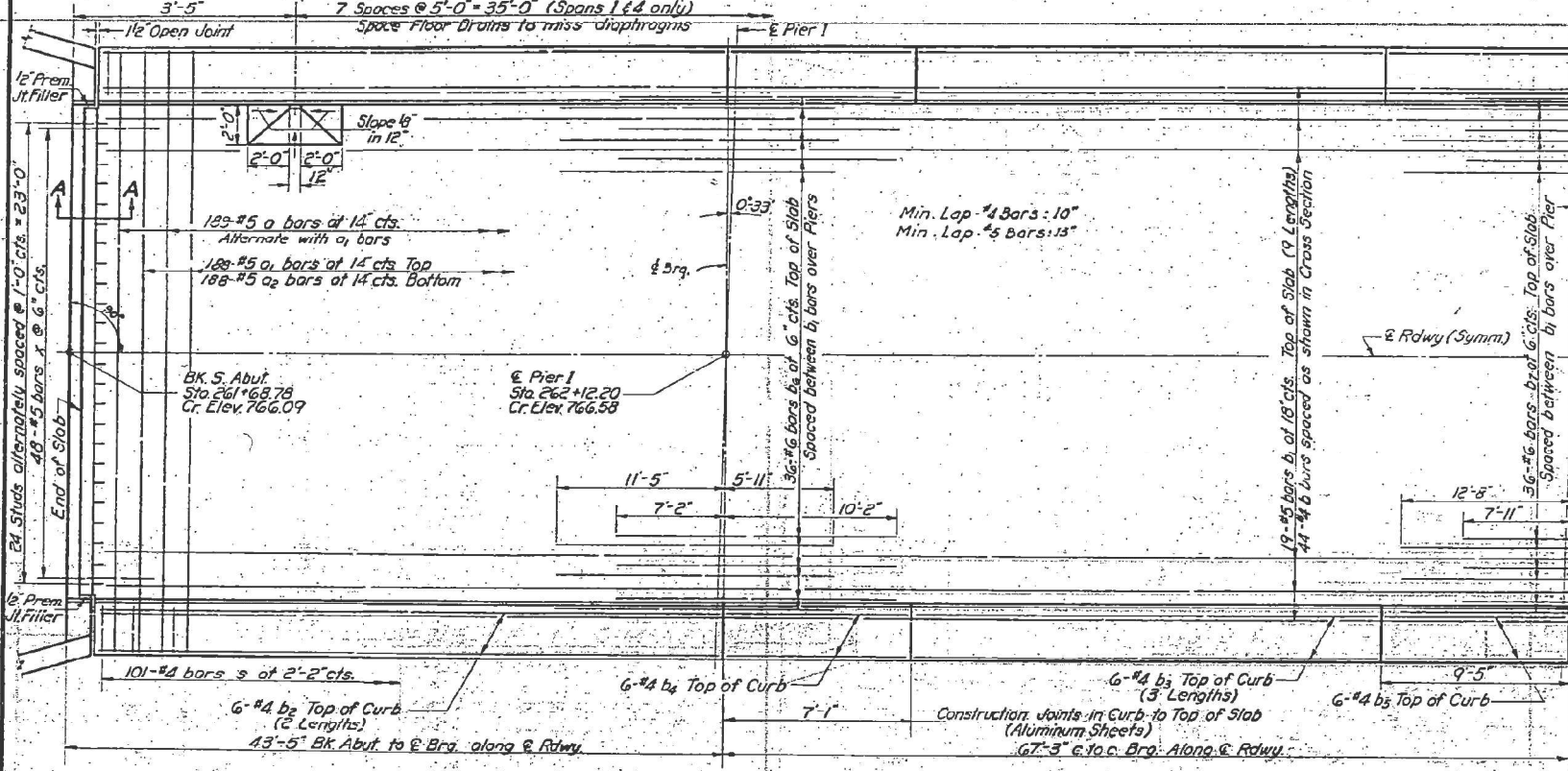
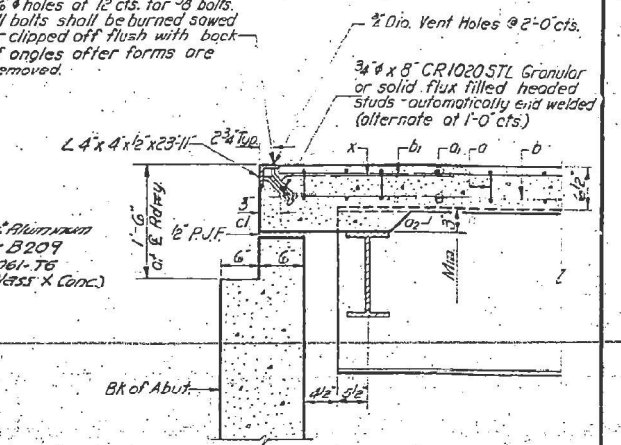
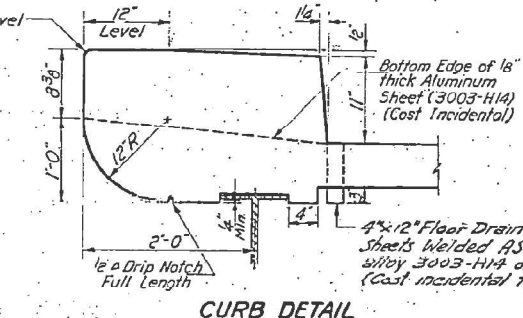
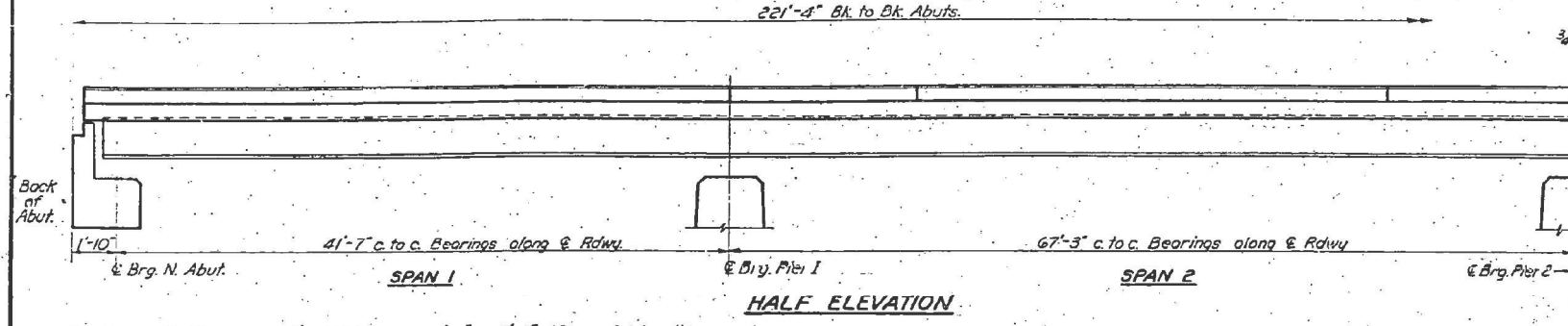
DESIGN STRESSES
fc = 1400 psi Super & Sub
vc = 75 psi Flgs
fs = 20,000 psi Reinf.
fs = 20,000 psi Struct. Steel (A36)
n = 10
LOADING H15-512-44

PROJ. 1-74-4(5)
GENERAL PLAN & ELEVATION
TR 134 OVER FAI RT. 74
FAI RT. 74 SEC. X3-17HB
WOODFORD COUNTY
STA 1276+99.99

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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	SHEET	TOTAL SHEETS	SHEET NO.
102-0034	X3-17HB	W000FLK2	25	6
SHEET NO. 2				12 SHEETS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	189	#5	30'-0"	~
a1	188	#5	29'-0"	~
a2	188	#5	28'-4"	~
b	396	#4	25'-9"	~
b1	171	#5	25'-10"	~
b2	48	#4	21'-10"	~
b3	72	#4	17'-6"	~
b4	24	#4	6'-9"	~
b5	24	#4	9'-1"	~
b6	72	#6	17'-4"	~
b7	36	#6	20'-7"	~
d	406	#4	1'-2"	~
s	202	#4	4'-7"	~
x	96	#5	4'-0"	~

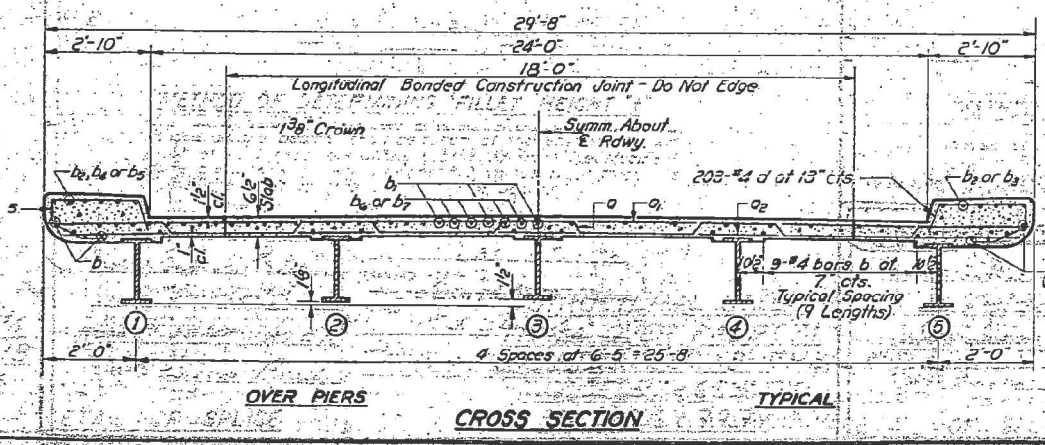
Class X Concrete Cu.Yd. 181.7
Reinforcement Bars Lb. 34,540
Structural Steel Lb. 151,980

METHOD OF DETERMINING FILLET HEIGHT "f"
After all structural has been erected elevations of the top flanges of the beams shall be taken at the stations shown on Sheet #10. These elevations subtracted from the Modified Grade Elevations shown on Sheet #10, minus floor thickness equals the fillet heights above top of beams.

DESIGNED: Eugene Beatty
CHECKED: Eugene Beatty
DRAWN: J.L. Armstrong, C.E.
CHECKED: Eugene Beatty

EXAMINED: W.E. Beaman
PASSED: E.J. Shuck
APPROVED: W.H. Beaman

MAY 17 1961



DESIGN STRESSES
f_s = 18 Ksi - A7 & 20 Ksi - A36
f_s = 20,000 psi - Reinforcement
f_c = 1,400 psi - Superstructure
f_c = 1,400 psi - Substructure
n = 10

SUPERSTRUCTURE
TR 134 OVER FAI RT 74
FAI RT 74 SEC X3-17HB
WOODFORD COUNTY
STA 1276+99.99

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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILLINOIS 62769
PHONE - 317.679.0254

USER NAME	DESIGNED - JGY	REVISED -
PLOT SCALE	CHECKED - GBR	REVISED -
PLOT DATE	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABBREVIATED ORIGINAL BRIDGE PLANS
STRUCTURE NO. 102-0034

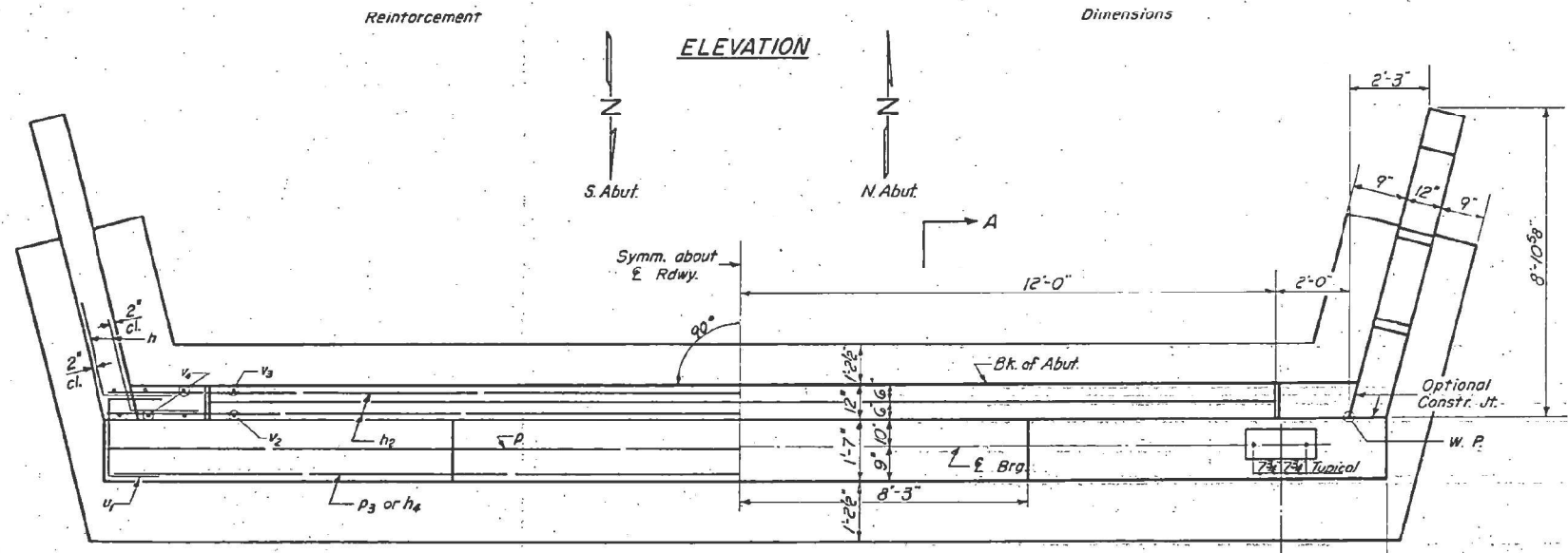
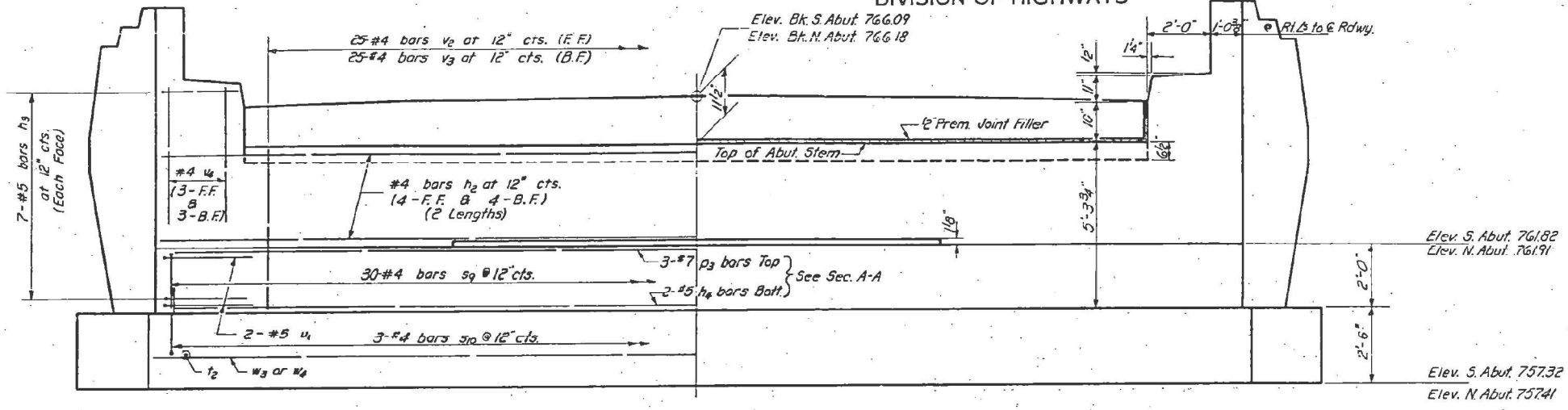
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	14
CONTRACT NO. 68G65				

SHEET 5 OF 9 SHEETS

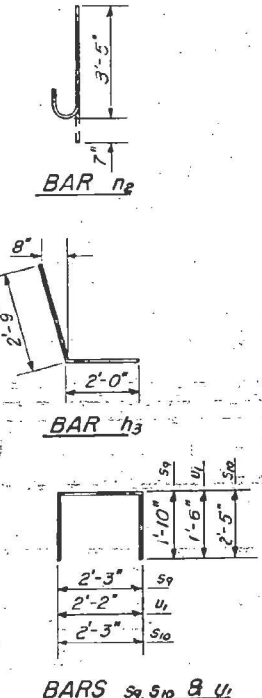
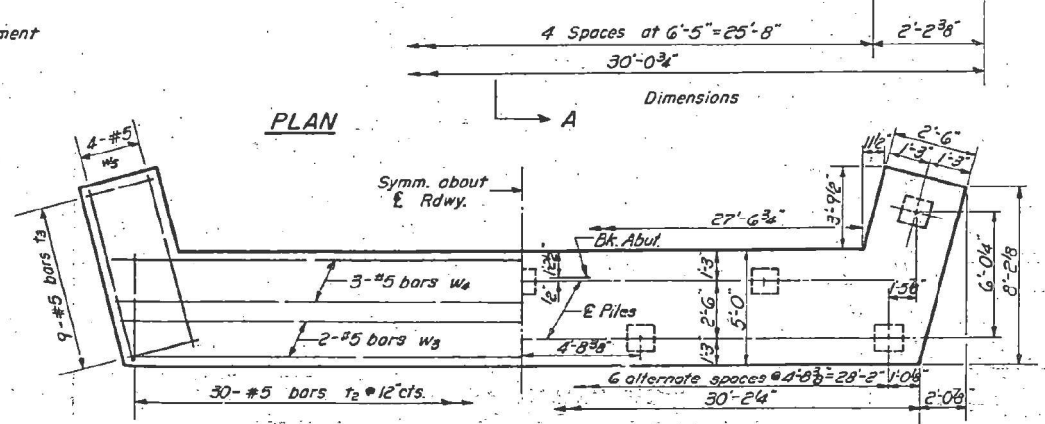
LINE NO. FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	X3-17HB	WOODFORD	28	11
SHEET NO. 7 12 SHEETS				



For Details of End Post B
Sec. A-A See Sheet 8



**TWO ABUTMENTS
BAR LIST**

Bar	No.	Size	Length	Shape
h2	32	#4	15'-6"	—
h3	56	#	4'-9"	✓
h4	4	#5	29'-8"	—
n2	40	#5	4'-0"	U
p2	6	#7	29'-8"	—
s9	60	#4	5'-11"	□
s10	60	#4	7'-1"	□
t2	60	#5	4'-8"	—
t3	36	#5	2'-2"	—
u1	8	#5	5'-2"	□
v2	50	#4	5'-2"	—
v3	50	#4	4'-7"	—
v4	24	#4	6'-10"	—
w3	4	#5	29'-10"	—
w4	6	#5	30'-4"	—
w5	16	#5	8'-1"	—

**TWO ABUTMENTS
BILL OF MATERIAL**

Item	Unit	Quantity
Class X Concrete	Cu. Yds.	61.4
Reinforcement Bars	Lbs.	3830
Concrete Piles	Lin. Ft.	715
Test Piles (Concrete)	Each	1

PILE DATA
Type - Concrete
Capacity - 35 Ton Min.
Est. Length - 50 Feet No. Abut 35 Feet So. Abut.
No. Req'd. - 18 (Including 1 Test Pile)

Note: Bill of Material includes Reinforcement and Class X Concrete for End Posts. (Sheet #2)

DESIGNED Eugene Beatty
CHECKED Charles Kadakal
DRAWN J.L. Armstrong
W.A. Sousamoh
APPROVED O.P. Bartchewsky

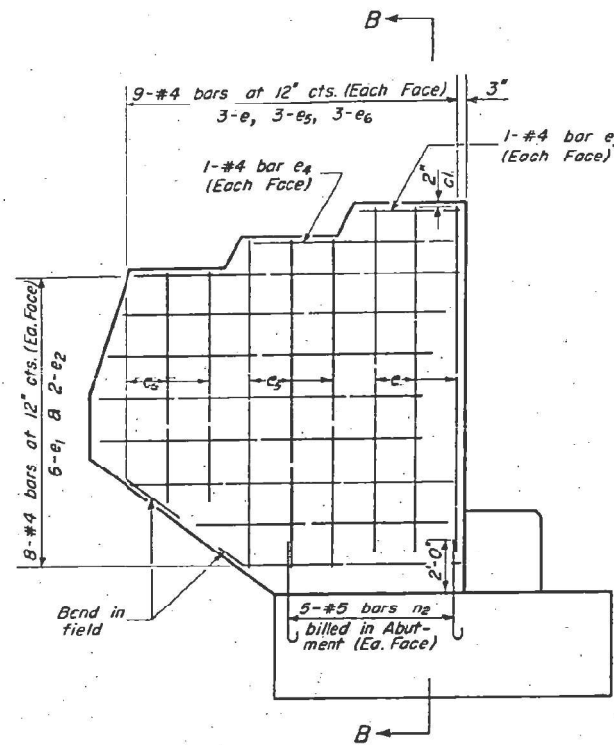
MAY 17 1961

**ABUTMENTS
T.R. 134 OVER FAI RT 74
FAI RT 74 SEC. X3-17HB
WOODFORD COUNTY
STA. 1276 +99.99**

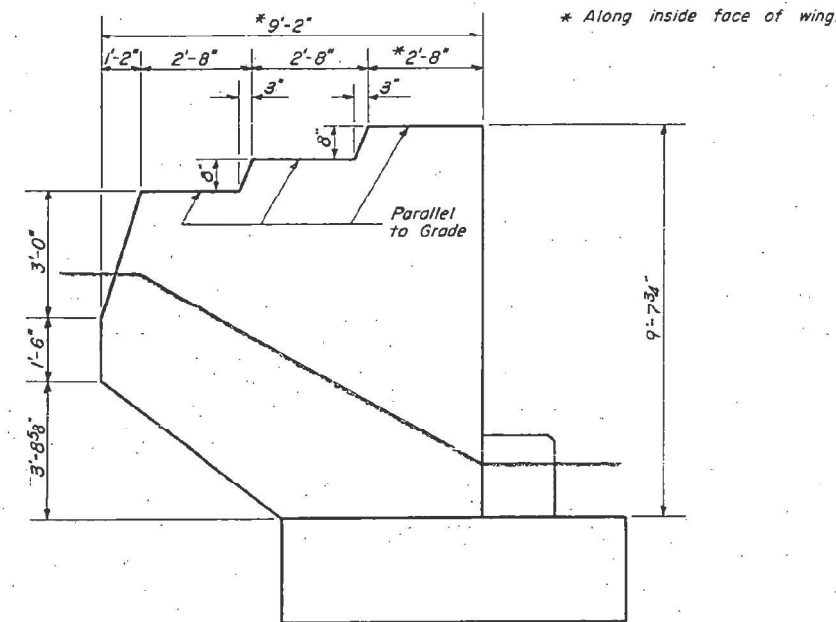
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

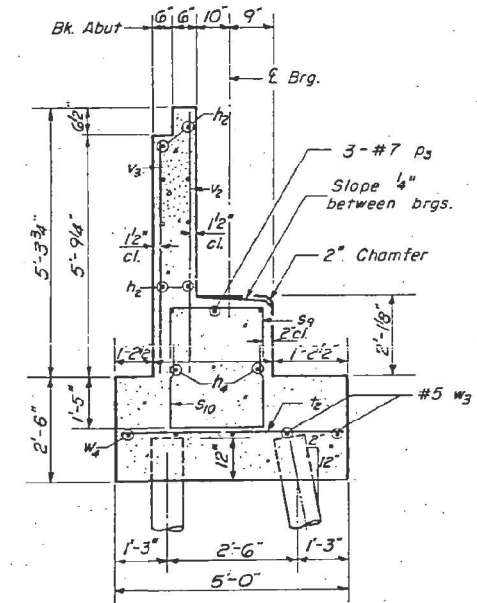
ROUTE NO.	SECTION	CONTRACT NO.	TOTAL SHEETS	SHEET NO.	SHEET NO.
74	X3-17HB	WOODFORD	28	12	12 SHEETS



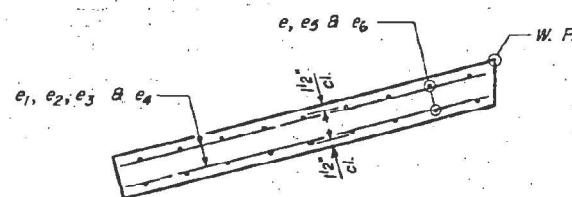
ELEVATION



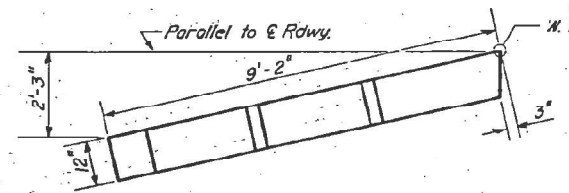
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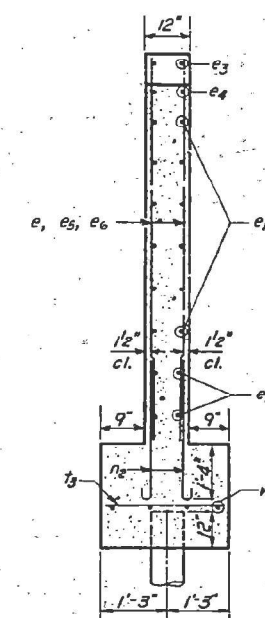
SECTION A-A



PLAN



PLAN



SECTION B-B

ONE END POST
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	6	#4	9'-3"	—
e1	12	#4	7'-9"	—
e2	4	#4	6'-0"	—
e3	2	#4	2'-6"	—
e4	2	#4	5'-0"	—
e5	6	#4	8'-6"	—
e6	6	#4	7'-0"	—
Reinforcement Bars		Lbs.	190	
Class X Concrete		Cu.Yds	2.7	

Note: End Post Quantities included in Abutment Bill of Materials. (Sheet #7)

END POST DETAILS
TR. 134 OVER FA. RT. 74
FA. RT. 74 SEC. X3-17HB
WOODFORD COUNTY
STA. 1276+99.99

DESIGNED	Eugene Beatty
CHECKED	W. A. Sausaman
DRAWN	W. A. Sausaman
CHECKED	Eugene Beatty

MAY 17 1961
EXAMINED
PASSED
APPROVED

AW-2 Drawn 2-2-60

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILL. 62704
PHONE - 317-679-0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABBREVIATED ORIGINAL BRIDGE PLANS
STRUCTURE NO. 102-0034

SHEET 9 OF 9 SHEETS

FA. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(X3-17HB)BRR	WOODFORD	18	18
CONTRACT NO. 68G65				

ILLINOIS FED. AID PROJECT