

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)I-2	PEORIA	18	1
		ILLINOIS	CONTRACT NO. 68H64	

D-94-041-23



LOCATION OF SECTION INDICATED THIS: -

PROJECT DESCRIPTION:

LONGITUDINAL JOINT REPAIR ALONG  
US 24 FROM IL 9 TO KINGSTON MINES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 20, 2023  
Kenneth A. Darneth, Inc.  
REGIONAL ENGINEER

May 12, 2023 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 317 (US 24)  
SECTION (45)I-2  
CONTRACT MAINTENANCE  
PEORIA COUNTY

C-94-060-23

INDEX OF SHEETS

- 1 COVER SHEET
- 2 COMMITMENTS, GENERAL NOTES, AND PROJECT SPECIFIC NOTES
- 3 SUMMARY OF QUANTITIES
- 4 SCHEDULE OF QUANTITIES
- 5-6 TYPICAL SECTIONS
- 7 LINE DIAGRAM
- 8-18 PROPOSED PLAN VIEW

HIGHWAY STANDARDS

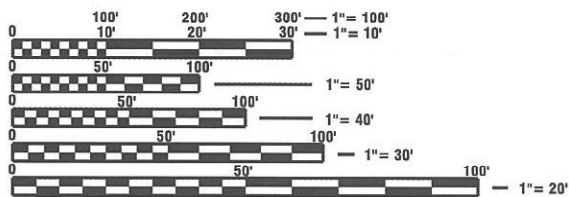
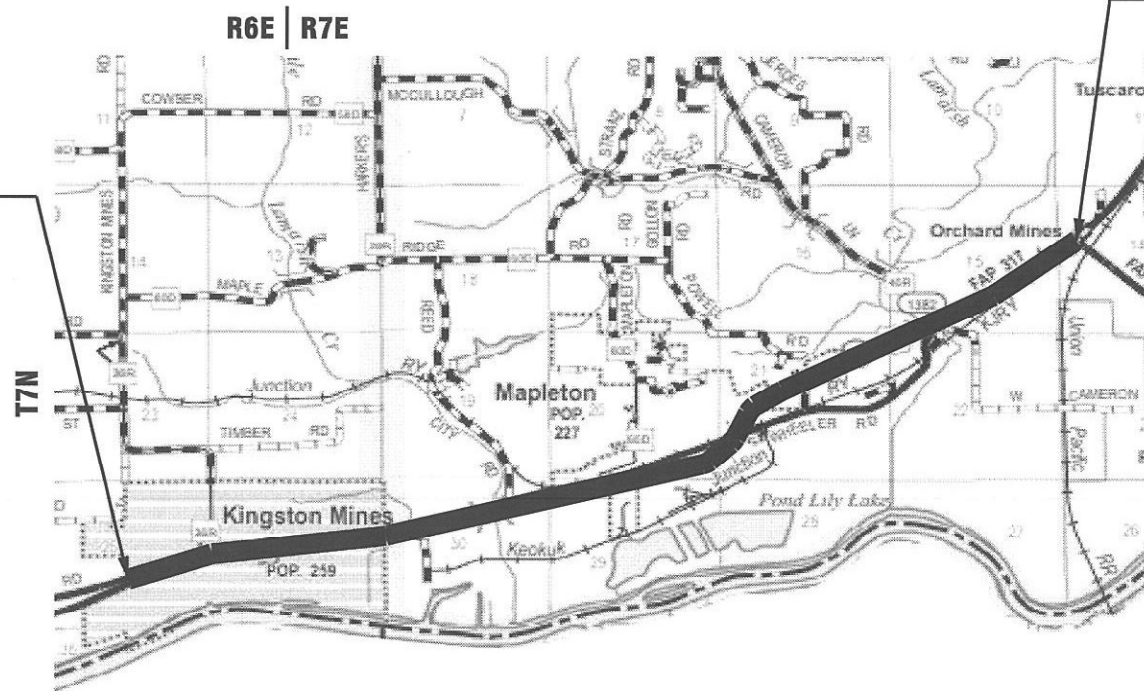
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- 701421-08
- 701901-08
- 780001-05
- 781001-04

DESIGN DESIGNATION

- US 24: OTHER PRINCIPAL ARTERIAL
- ADT: 8050 (2021)
- SU: 350
- MU: 375

END IMPROVEMENT

BEGIN IMPROVEMENT



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: BEN TELLEFSON (309) 671-3333  
PROJECT MANAGER: ERIC PRICHARD (309) 671-3333  
CATALOG NO. 036415-00D  
CONTRACT NO. 68H64

[Signature] 3/15/23  
MARK C. LEE DATE

REGISTERED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS NO. 062-060864  
LICENSE EXPIRES NOVEMBER 30, 2023

GROSS LENGTH = 32,208.00 FT. = 6.1 MILE  
NET LENGTH = 32,208.00 FT. = 6.1 MILE

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Burlington, IA Pella, IA Columbia, MO  
Davenport, IA Carbondale, IL  
DESIGN FIRM NO. 184-2738

## COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

THERE ARE NO COMMITMENTS INCLUDED IN THIS PROJECT.

## 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 (CULTURAL AND NATURAL RESOURCE REVIEW OF BORROW AREAS)
- 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 TWO 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.

## JOB SPECIFICATIONS

1. FLAGGERS, WHEN SHOWN, SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL STANDARD PAY ITEMS.
2. TWO CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE PROJECT. ONE PER EACH DIRECTION OF TRAVEL ON US 24 ONE WEEK PRIOR TO CONSTRUCTION.

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

LOCATION(S)	MAINLINE
MIXTURE USE(S):	PATCHING
PG:	PG 58-28
DESIGN AIR VOIDS:	4% N=50
MIXTURE COMPOSITION:	IL 9.5
FRICTION AGGREGATE:	MIX C
MIXTURE WEIGHT:	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A
MATERIAL TRANSFER DEVICE:	NO

NOTES:

1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM.

2) FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LB./S.Y./IN., UNLESS OTHERWISE NOTED.

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 Galesburg, IL 62430

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	DATE -	REVISED -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMITMENTS, GENERAL NOTES  
AND PROJECT SPECIFIC NOTES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)F-2	PEORIA	18	2
CONTRACT NO. 68H64				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL JOINT REPAIR SCHEDULE					
APPROXIMATE LOCATION			LONGITUDINAL JOINT REPAIR	RPM REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS
FROM	TO	AREA	(FT)	(EACH)	(EACH)
US 24 NORTHBOUND					
292+50	330+50	CENTERLINE	3800	63	63
391+93	402+68	CENTERLINE	1075	18	18
413+53	459+81	CENTERLINE	4620	77	77
463+78	471+08	CENTERLINE	730	12	12
570+48	590+48	CENTERLINE	2000	33	33
US 24 SOUTHBOUND					
292+50	305+94	CENTERLINE	1344	22	22
307+20	311+90	CENTERLINE	470	8	8
315+50	324+50	CENTERLINE	900	15	15
343+69	355+22	CENTERLINE	1153	19	19
394+78	410+63	CENTERLINE	1585	26	26
414+16	475+74	CENTERLINE	6158	103	103
499+68	505+18	CENTERLINE	550	9	9
578+03	585+93	CENTERLINE	790	13	13
NORTHBOUND US 24 SUB-TOTAL			12225	203	203
SOUTHBOUND US 24 SUB-TOTAL			12950	215	215
JOB TOTAL			25175	418	418
USE			27693	460	460
QUANTITIES INCREASED 10% FOR EXPECTED OVERAGE					

MOBILIZATION	
LOCATION	L SUM
FAP 317	1
TOTAL	1

TRAFFIC CONTROL & PROTECTION STANDARD 701421	
LOCATION	L SUM
FAP 317	1
TOTAL	1

CHANGEABLE MESSAGE SIGN	
LOCATION	CAL DAY
FAP 317	60
TOTAL	60

PAVEMENT MARKING SCHEDULE			
APPROXIMATE LOCATION			6" WHITE SKIP - DASH
FROM	TO	AREA	(FT)
US 24 NORTHBOUND			
292+50	330+50	CENTERLINE	950
391+93	402+68	CENTERLINE	269
413+53	459+81	CENTERLINE	1155
463+78	471+08	CENTERLINE	183
570+48	590+48	CENTERLINE	500
US 24 SOUTHBOUND			
292+50	305+94	CENTERLINE	336
307+20	311+90	CENTERLINE	118
315+50	324+50	CENTERLINE	225
343+69	355+22	CENTERLINE	289
394+78	410+63	CENTERLINE	397
414+16	475+74	CENTERLINE	1540
499+68	505+18	CENTERLINE	138
578+03	585+93	CENTERLINE	198
NORTHBOUND US 24 SUB-TOTAL			3057
SOUTHBOUND US 24 SUB-TOTAL			3241
JOB TOTAL			6298
USE			6928
QUANTITIES INCREASED 10% FOR EXPECTED OVERAGE			

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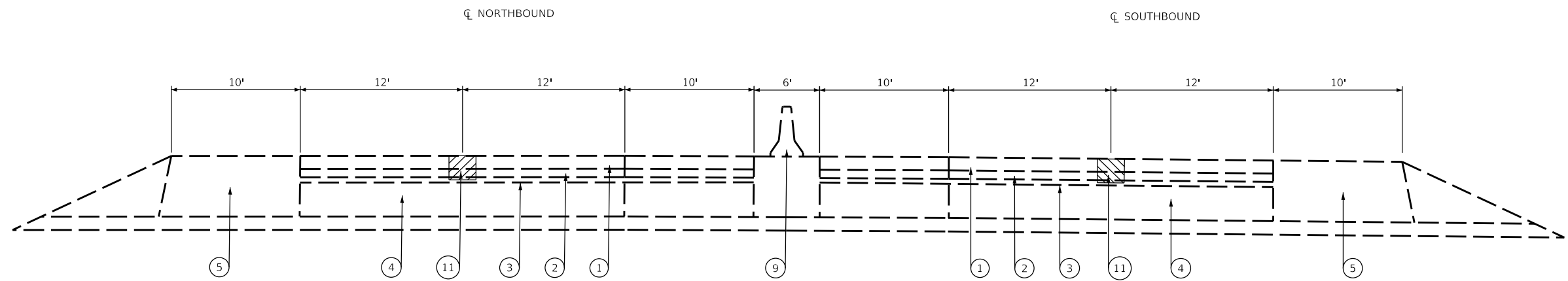
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

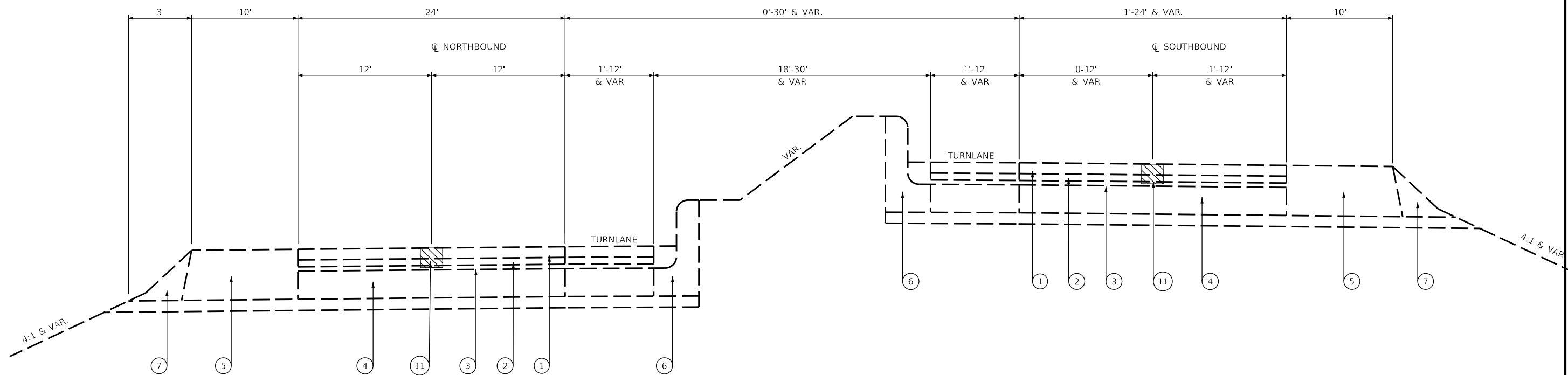
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)-2	PEORIA	18	4
CONTRACT NO. 68H64			ILLINOIS FED. AID PROJECT	

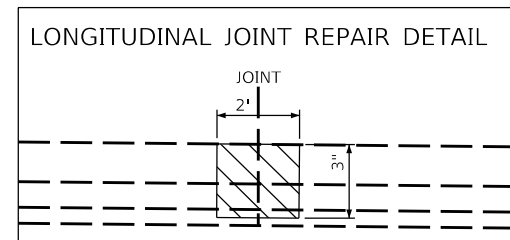




EXISTING TYPICAL FAP 317 (US 24) SECTION W/ MEDIAN BARRIER WALL  
STA. 392+00.0 TO STA. 438+50.0



EXISTING TYPICAL FAP 317 (US 24) SECTION W/ GUTTER  
STA. 438+50.0 TO STA. 598+00.0



**LEGEND**

- |   |   |   |  |
|---|---|---|--|
| ① | EXISTING 1 1/2" AND VARIABLE HMA            | ⑦ | EXISTING AGGREGATE SHOULDER                              |
| ② | EXISTING 3/4" LEVELING BINDER               | ⑧ | EXISTING GUARDRAIL                                       |
| ③ | EXISTING HMA BASE COURSE                    | ⑨ | EXISTING MEDIAN BARRIER WALL                             |
| ④ | EXISTING P.C.C. PAVEMENT 10"                | ⑩ | EXISTING CONCRETE MEDIAN                                 |
| ⑤ | EXISTING HMA SHOULDER                       | ⑪ | LONGITUDINAL JOINT REPAIR (SEE PLAN SHEET FOR LOCATIONS) |
| ⑥ | EXISTING COMBINATION CONCRETE CURB & GUTTER |   |  |

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 DATE: 3/14/2023  
 PLOT DATE: 3/14/2023

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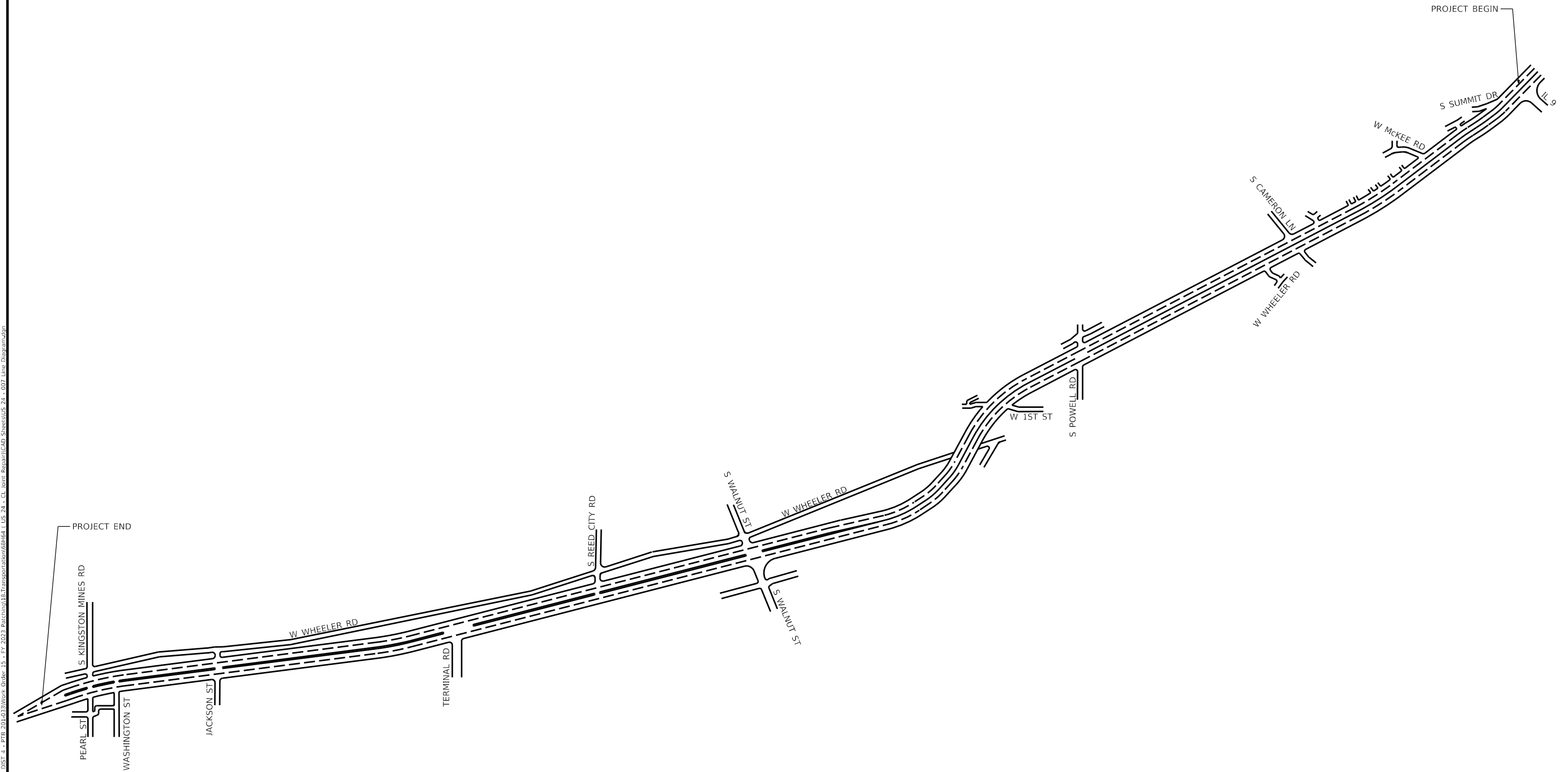
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE: NONE	SHEET 2	OF 2 SHEETS	STA. N/A TO STA. N/A

F.A.P. RTE. 317	SECTION (45)I-2	COUNTY PEORIA	TOTAL SHEETS 18	SHEET NO. 6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H64	



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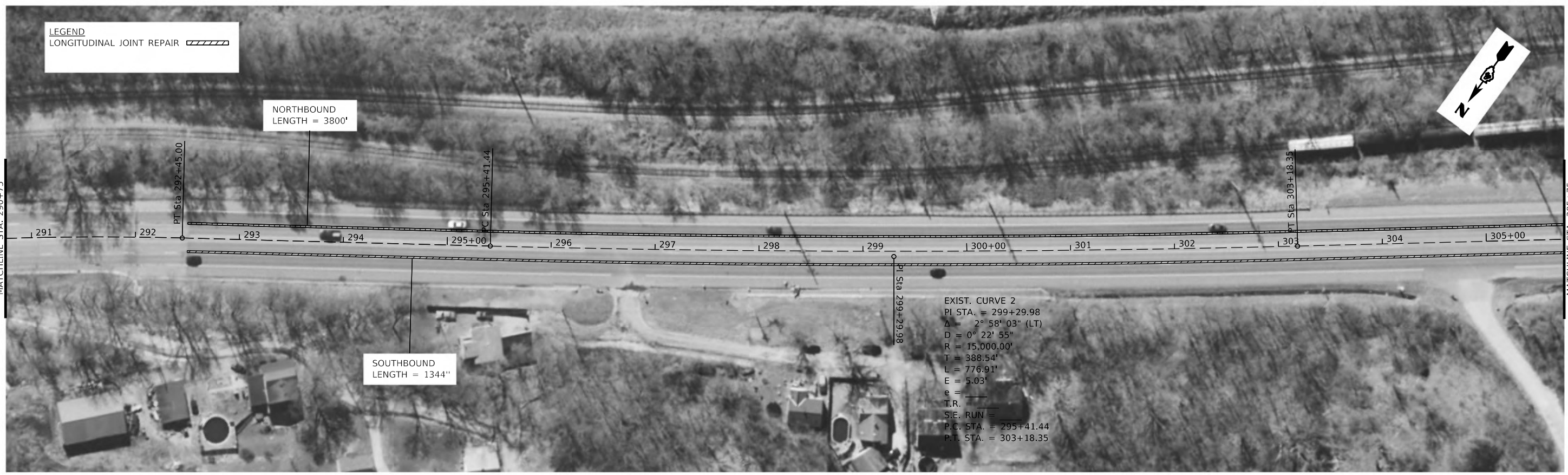
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>LINE DIAGRAM</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. N/A TO STA. N/A

F.A.P. RTE. 317	SECTION (45)F-2	COUNTY PEORIA	TOTAL SHEETS 18	SHEET NO. 7
CONTRACT NO. 68H64				
ILLINOIS FED. AID PROJECT				

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 Galesburg, Illinois



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED PLAN VIEW</b>			
SCALE: 1" = 100'	SHEET 1	OF 11 SHEETS	STA. 276+04.75 TO STA. 305+75.00

F.A.P. RTE. 317	SECTION (45)I-2	COUNTY PEORIA	TOTAL SHEETS 18	SHEET NO. 8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H64	



LEGEND  
LONGITUDINAL JOINT REPAIR 

EXIST. CURVE 3  
 PI STA. = 317+52.18  
 $\Delta = 9^\circ 48' 15" (RT)$   
 $D = 0^\circ 50' 56"$   
 $R = 6,750.00'$   
 $T = 578.93'$   
 $L = 1,155.03'$   
 $E = 24.78'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 311+73.25$   
 $P.T. STA. = 323+28.28$



LEGEND  
LONGITUDINAL JOINT REPAIR 



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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN VIEW**

SCALE: 1" = 100'    SHEET 2 OF 11 SHEETS    STA. 305+75.00 TO STA. 335+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)I-2	PEORIA	18	9
CONTRACT NO. 68H64				
ILLINOIS FED. AID PROJECT				

LEGEND  
LONGITUDINAL JOINT REPAIR 



MATCHLINE STA. 335+75

MATCHLINE STA. 350+75

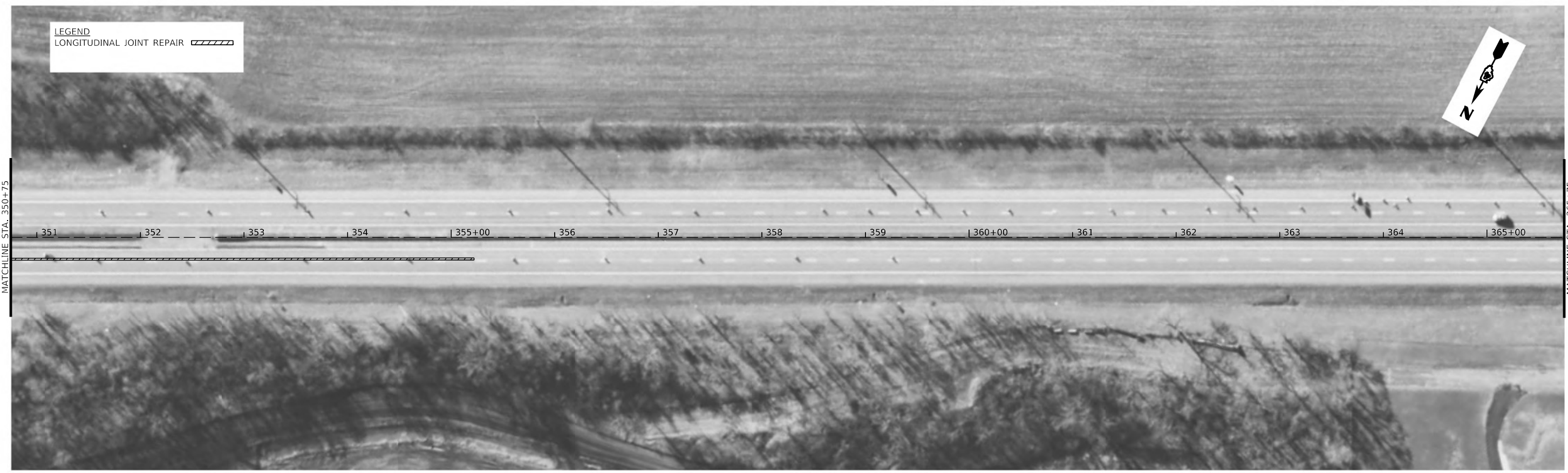


LEGEND  
LONGITUDINAL JOINT REPAIR 



MATCHLINE STA. 350+75

MATCHLINE STA. 365+75



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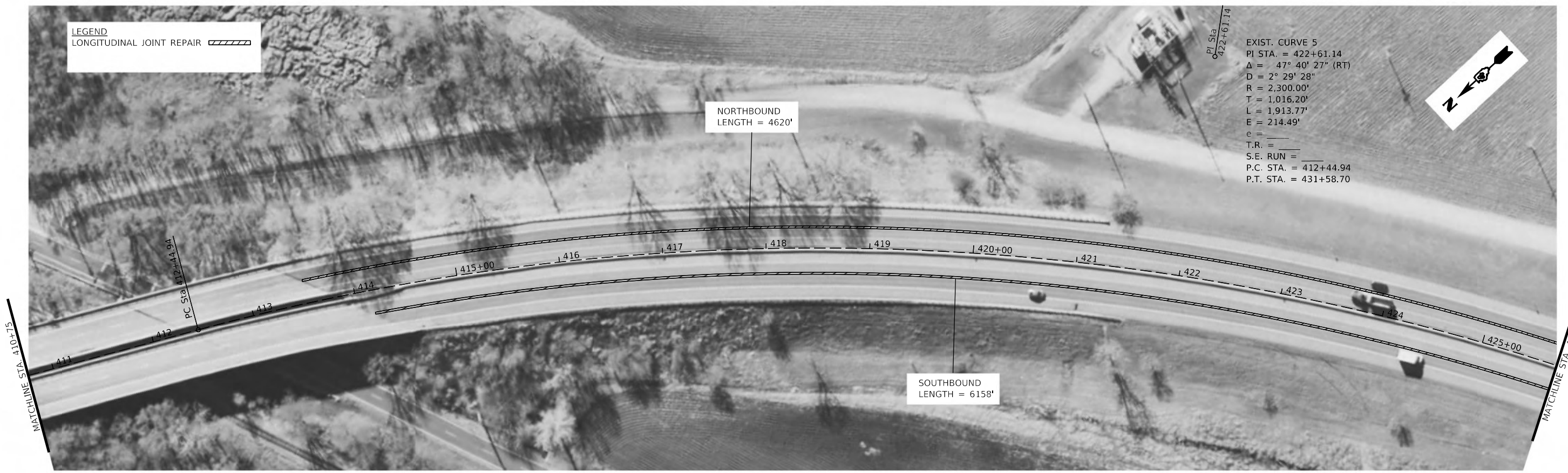
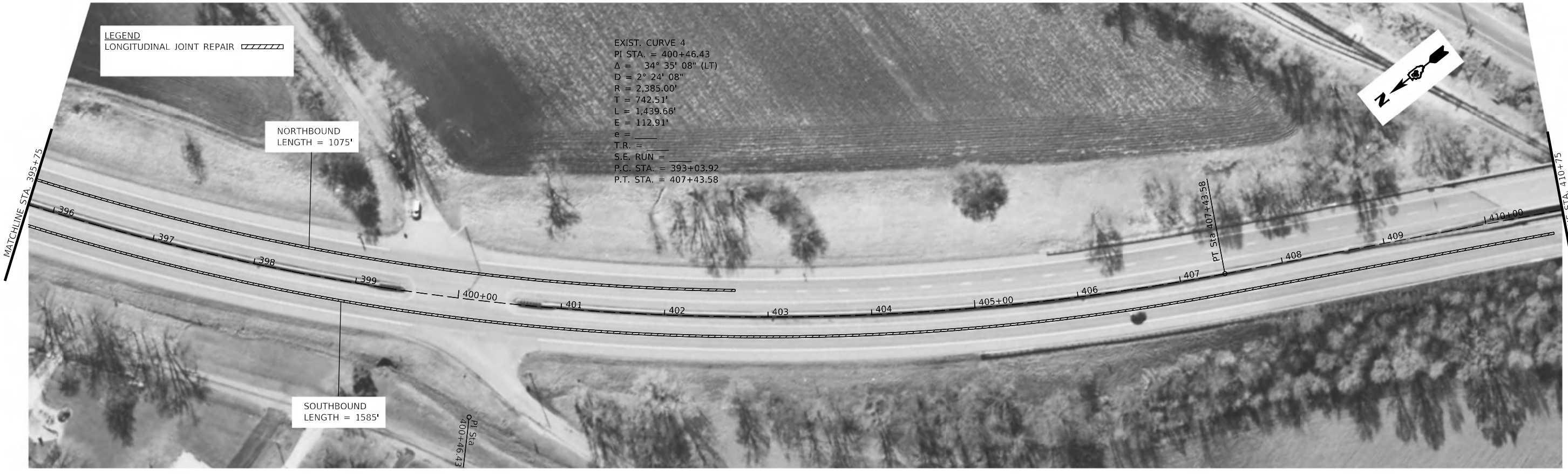
**PROPOSED PLAN VIEW**

SCALE: 1" = 100'    SHEET 3 OF 11 SHEETS    STA. 335+75.00 TO STA. 365+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)F-2	PEORIA	18	10
CONTRACT NO. 68H64			ILLINOIS FED. AID PROJECT	



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN VIEW**

SCALE: 1" = 100' SHEET 5 OF 11 SHEETS STA. 395+75.00 TO STA. 425+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)F-2	PEORIA	18	12
CONTRACT NO. 68H64				
ILLINOIS FED. AID PROJECT				

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 Galesburg, Illinois



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DATE -	REVISD -

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DRAWN - MCR	REVISD -
CHECKED - MCL	REVISD -
DATE -	REVISD -

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

<b>PROPOSED PLAN VIEW</b>			
SCALE: 1" = 100'	SHEET 6	OF 11 SHEETS	STA. 425+75.00 TO STA. 455+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)F-2	PEORIA	18	13
CONTRACT NO. 68H64			ILLINOIS FED. AID PROJECT	



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DATE -	REVISÉD -

DESIGNED - MCR	REVISÉD -
DRAWN - MCR	REVISÉD -
CHECKED - MCL	REVISÉD -
DATE -	REVISÉD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED PLAN VIEW</b>			
SCALE: 1" = 100'	SHEET 7	OF 11 SHEETS	STA. 455+75.00 TO STA. 485+75.00

F.A.P. RTE. 317	SECTION (45)F-2	COUNTY PEORIA	TOTAL SHEETS 18	SHEET NO. 14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H64	

LEGEND  
LONGITUDINAL JOINT REPAIR 



LEGEND  
LONGITUDINAL JOINT REPAIR 



SOUTHBOUND  
LENGTH = 550'

MODEL: D:\p\11\11081\_IDOT - DIST 4 - P1B 201.023\Work - Outer 15 - FY 2023 - Project\11\11081\_IDOT - DIST 4 - P1B 201.023\CAD - Sheets\US 24 - CL - Joint Repair\CAD - Sheets\US 24 - CL - Joint Repair - Plan View.dwg  
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**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 Galesburg, Illinois  
 40 North Prairie Street  
 Galesburg, IL 62541-4410

USER NAME = mirch
PLOT SCALE = 100,0000' / in.
PLOT DATE = 3/14/2023

DESIGNED - MCR	REVISD -
DRAWN - MCR	REVISD -
CHECKED - MCL	REVISD -
DATE -	REVISD -

DESIGNED - MCR	REVISD -
DRAWN - MCR	REVISD -
CHECKED - MCL	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED PLAN VIEW</b>			
SCALE: 1" = 100'	SHEET 8	OF 11 SHEETS	STA. 485+75.00 TO STA. 515+75.00

F.A.P. RTE. 317	SECTION (45)-2	COUNTY PEORIA	TOTAL SHEETS 18	SHEET NO. 15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H64	

LEGEND  
LONGITUDINAL JOINT REPAIR 

EXIST. CURVE 6  
PI STA. = 528+53.92  
 $\Delta = 6^\circ 58' 04''$  (RT)  
D =  $0^\circ 49' 07''$   
R = 7,000.00'  
T = 426.17'  
L = 851.29'  
E = 12.96'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA. = 524+27.75  
P.T. STA. = 532+79.04



LEGEND  
LONGITUDINAL JOINT REPAIR 



MODEL: Default  
 FILE NAME: G:\11files\31081\_IDOT - DIST 4 - PTD 201623\Work\_Outer\_15 - FY 2023\_Bridging\18\_Transportation\68H64\_1\_US\_24 - CL Joint Repair\CAD\_Sheets\US 24 - 016 Proposed Plan View.dgn  
 Galesburg, Illinois  
 40 North Prairie Street  
 300-442-4410

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www.klingnerus.com  
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40 North Prairie Street  
300-442-4410

USER NAME = mirch  
PLOT SCALE = 100,0000' / in.  
PLOT DATE = 3/14/2023

DESIGNED - MCR  
DRAWN - MCR  
CHECKED - MCL  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN VIEW**

SCALE: 1" = 100' SHEET 9 OF 11 SHEETS STA. 515+75.00 TO STA. 545+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)F-2	PEORIA	18	16
CONTRACT NO. 68H64				
ILLINOIS FED. AID PROJECT				



LEGEND  
LONGITUDINAL JOINT REPAIR 



MATCHLINE STA. 545+75

MATCHLINE STA. 560+75



LEGEND  
LONGITUDINAL JOINT REPAIR 



MATCHLINE STA. 560+75

MATCHLINE STA. 575+75



MCP: E:\Default\Klingner & Associates, P.C.\Users\mrich\OneDrive\Work\2023\Projects\18\_Transportation\68H64\_1\_US\_24\_-\_CL\_Joint\_Repairs\CAD\_Sheets\US\_24\_-\_017\_Proposed\_Plan\_View.dwg

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Galesburg, Illinois  
40 North Prairie Street  
Burlington, MA 01803 • Peoria, IL 61604 • Columbia, MD 21046 • Charleston, SC 29405

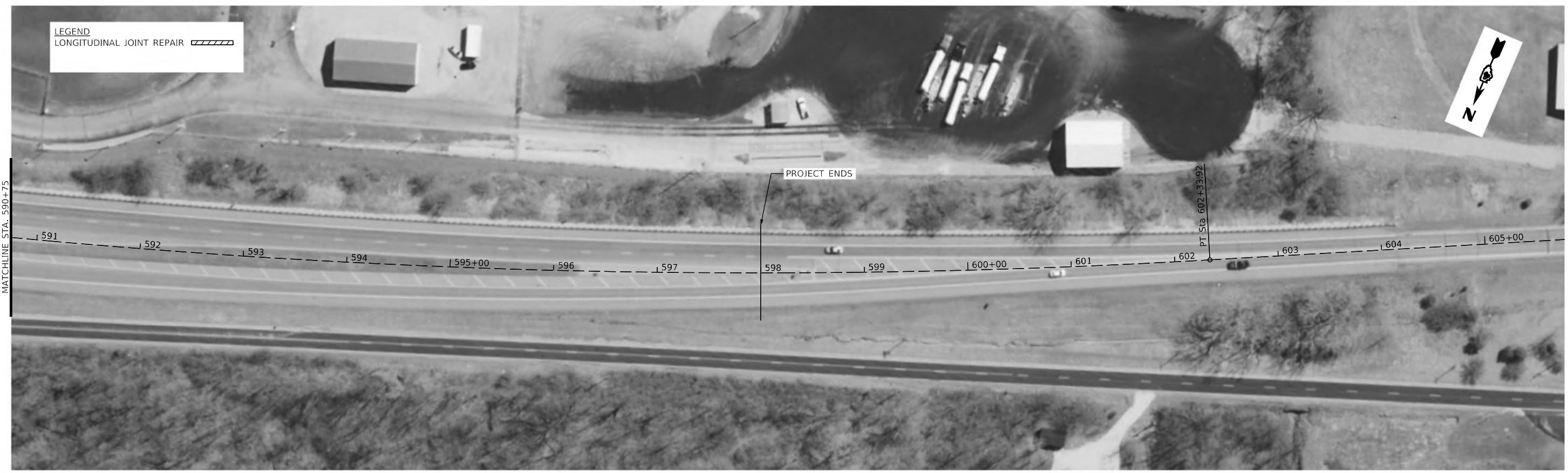
USER NAME = mrich	DESIGNED - MCR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MCR	REVISED -
PLOT DATE = 3/14/2023	CHECKED - MCL	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN VIEW**

SCALE: 1" = 100' SHEET 10 OF 11 SHEETS STA. 545+75.00 TO STA. 575+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45)F-2	PEORIA	18	17
CONTRACT NO. 68H64				
ILLINOIS FED. AID PROJECT				



MODEL: Default  
 FILE NAME: G:\11files\21081\_IDOT - DIST 4 - PTD 201623\Work\_Ordor\_15 - FY 2023\_Batch\18\_Transportation\68H64\_1\_US\_24 - CL Joint Repair\CAD\_Sheets\US 24 - 018\_Proposed Plan View.dwg  
 Galesburg, Illinois

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 Galesburg, Illinois

USER NAME = mirch
PLOT SCALE = 100,0000' / in.
PLOT DATE = 3/14/2023

DESIGNED - MCR
DRAWN - MCR
CHECKED - MCL
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED PLAN VIEW</b>			
SCALE: 1" = 100'	SHEET 11	OF 11 SHEETS	STA. 575+75.00 TO STA. 605+75.00

F.A.P. RTE. 317	SECTION (45)I-2	COUNTY PEORIA	TOTAL SHEETS 18	SHEET NO. 18
ILLINOIS FED. AID PROJECT				CONTRACT NO. 68H64