Beginning of Part 2

See Part 1 for Document, Appendix A, and Appendix B - Graphics and Photos

PROJECT	DESIGNATION
1902734	1902734
CONTRACT	
R-43491	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

Stage 3 Plans
July 21, 2022

ADDITIONAL RIGHT OF WAY REQUIRED FOR THIS PROJECT

①	ROUTE: S.R. 1	FROM: RP 87+88	TO: RP 88+03
②	ROUTE: S.R. 1	FROM: RP 110+68	TO: RP 110+75
③	ROUTE: S.R. 1	FROM: RP 110+90	TO: RP 110+96
④	ROUTE: S.R. 26	FROM: RP 124+98	TO: RP 125+07
⑤	ROUTE: U.S. 27	FROM: RP 55+23	TO: RP 55+28
⑥	ROUTE: U.S. 27	FROM: RP 57+01	TO: RP 57+07
⑦	ROUTE: U.S. 27	FROM: RP 61+24	TO: RP 61+31

Project Description:

① Structure Replacement on S.R. 1, 1.93 mi N of Jct of IN-32 in the City of Farmland, located in Section 1, T-20-N, R-12-E, and Section 36, T-21-N, R-12-E, Monroe Township, Randolph County, Indiana
Str. No. 1, CLV-001-068-87.96,
Project Begin - Sta. 27+01.00; Project End - Sta. 30+76.00, Line "SR-1"

② Structure Replacement on S.R. 1, 1.09 mi S of Jct of S.R.18 in the City of Pennville, located in Section 15, T-24-N, R-12-E, Penn Township, Jay County, Indiana
Str. No. 2, CLV-001-038-110.71,
Project Begin - Sta. 98+75.00; Project End - Sta. 99+55.00, Line "A-1"

③ Structure Replacement on S.R. 1, 0.87 mi S of Jct of S.R.18 in the City of Pennville, located in Section 10, T-23-N, R-12-E, Penn Township, Jay County, Indiana
Str. No. 3, CLV-001-038-110.93,
Project Begin - Sta. 110+25.00; Project End - Sta. 110+90.00, Line "A-1"

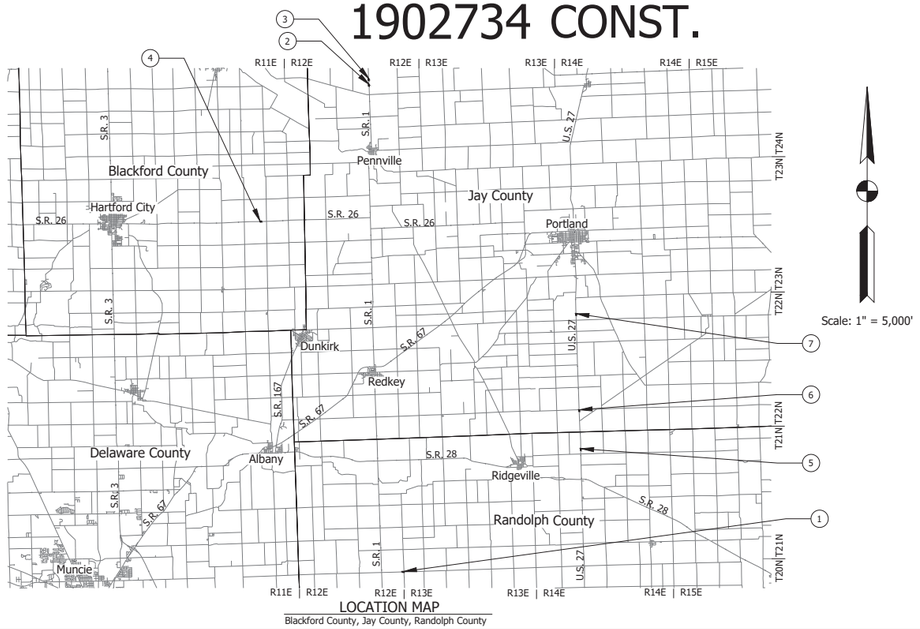
④ Structure Replacement on S.R. 26, 0.26 mi W of Jct of C.R. 700E in the City of Hartford City, located in Sections 11 and 14, T-23-N, R-11-E, Jackson Township, Blackford County, Indiana
Str. No. 4, CLV-026-005-125.01
Project Begin - Sta. 608+00.00; Project End - Sta. 610+00.00, Line "A"

⑤ Structure Replacement on U.S. 27, 1.20 mi N of Jct of S.R. 28 in the City of Ridgeville, located in Sections 4 and 5, T-21-N, R-14-E, Ward Township, Randolph County, Indiana
Str. No. 5, CLV-027-068-55.25,
Project Begin - Sta. 328+75.00; Project End - Sta. 329+40.00, Line "US 27"

⑥ Structure Replacement on U.S. 27, 3.11 mi N of Jct of S.R. 28 in the City of Portland, located in Sections 28, 29, 32, and 33, T-22-N, R-14-E, Pike Township, Jay County, Indiana
Str. No. 6, CLV-027-038-57.06,
Project Begin - Sta. 423+00.00; Project End - Sta. 423+50.00, Line "PR1"

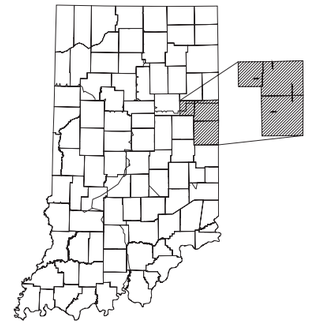
⑦ Structure Replacement on U.S. 27, 3.28 mi S of Jct of S.R. 26 in the City of Portland, located in Sections 4 and 5, T-22-N, R-14-E, Pike Township, Jay County, Indiana
Str. No. 7, CLV-027-038-61.28,
Project Begin - Sta. 646+25.00; Project End - Sta. 646+75.00, Line "PR-1"

PROJECT NO. 1902734 P.E.
1902734 R/W
1902734 CONST.



LOCATION MAP
Blackford County, Jay County, Randolph County

SEE INDEX AND GENERAL NOTES FOR TRAFFIC DATA



PROJECT LOCATION SHOWN BY
(Blackford County, Jay County, and Randolph County)

①	LATITUDE: 40°13'15.54"N	LONGITUDE: 85° 7'46.45"W
	HUC 14: # 05120103020050	
②	LATITUDE: 40°32'12.48"N	LONGITUDE: 85° 8'57.68"W
	HUC 14: # 05120102020020	
③	LATITUDE: 40°32'23.83"N	LONGITUDE: 85° 8'58.53"W
	HUC 14: # 05120102020020	
④	LATITUDE: 40°26'60.00"N	LONGITUDE: 85°14'36.83"W
	HUC 14: # 05120102020010	
⑤	LATITUDE: 40°17'51.41"N	LONGITUDE: 84°58'35.43"W
	HUC 14: # 05120103010070	
⑥	LATITUDE: 40°19'24.51"N	LONGITUDE: 84°58'37.36"W
	HUC 14: # 05120103020020	
⑦	LATITUDE: 40°23'5.05"N	LONGITUDE: 84°58'40.30"W
	HUC 14: # 05120102010050	

①	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.071	MI.
	TOTAL LENGTH:	0.071	MI.
	MAX. GRADE:	0.78	%
②	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.014	MI.
	TOTAL LENGTH:	0.014	MI.
	MAX. GRADE:	0.03	%
③	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.012	MI.
	TOTAL LENGTH:	0.012	MI.
	MAX. GRADE:	0.03	%
④	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.038	MI.
	TOTAL LENGTH:	0.038	MI.
	MAX. GRADE:	0.44	%
⑤	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.012	MI.
	TOTAL LENGTH:	0.012	MI.
	MAX. GRADE:	0.34	%
⑥	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.009	MI.
	TOTAL LENGTH:	0.009	MI.
	MAX. GRADE:	0.21	%
⑦	BRIDGE LENGTH:	N/A	MI.
	ROADWAY LENGTH:	0.009	MI.
	TOTAL LENGTH:	0.009	MI.
	MAX. GRADE:	0.38	%

INDIANA DEPARTMENT OF TRANSPORTATION *STANDARD SPECIFICATIONS* DATED 2022 TO BE USED WITH THESE PLANS

PLANS PREPARED BY: Lochmueller Group (317)-222-3880 PHONE NUMBER

CERTIFIED BY: _____ DATE

APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE
N/A
DESIGNATION
1902734

SURVEY BOOK	SHEET
ELECTRONIC	1 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:04pm User Name: BBritton
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UTILITIES

Str. No. 1 (CLV-001-068-87.96):

FRONTIER COMMUNICATION
Daniel Koch
8001 West Jefferson Blvd
Fort Wayne, IN 46804
260-415-9328

Str. No. 2 (CLV-001-038-110.71):

AMERICAN ELECTRIC POWER
Thomas Mcdonough
765-661-8658

LUMEN NATIONAL
Eric Flory
52 Farm View Dr. Suite 201
New Gloucester, ME 04260
419-497-2045

Str. No. 3 (CLV-001-038-110.93):

AMERICAN ELECTRIC POWER
Thomas Mcdonough
765-661-8658

LUMEN
Eric Flory
52 Farm View Dr. Suite 201
New Gloucester, ME 04260
419-497-2045

Str. No. 4 (CLV-026-005-125.01):

AMERICAN ELECTRIC POWER
Thomas Mcdonough
765-661-8658

AT&T
David Smith
116 E. Taylor St.
Kokomo, IN 46901
765-760-4786

Str. No. 5 (CLV-027-068-55.25):

AMERICAN ELECTRIC POWER
Janet Armstrong
765-287-3384

FRONTIER COMMUNICATION
Daniel Koch
8001 West Jefferson Blvd
Fort Wayne, IN 46804
260-415-9328

OHIO VALLEY GAS CORP.
Zach Bower
111 Energy Park Dr.
Winchester, IN 47394
765-584-6842 x609

Str. No. 6 (CLV-027-038-57.06):

AMERICAN ELECTRIC POWER
Janet Armstrong
765-287-3384

LUMEN
Eric Flory
52 Farm View Dr. Suite 201
New Gloucester, ME 04260
419-497-2045

OHIO VALLEY GAS CORP.
Zach Bower
111 Energy Park Dr.
Winchester, IN 47394
765-584-6842 x609

JAY COUNTY R.E.M.C.
Dwayne Muhlenkamp
484 S. CR 200 W
Portland, IN 47371
740-513-9496

Str. No. 7 (CLV-027-038-61.28):

JAY COUNTY R.E.M.C.
Dwayne Muhlenkamp
484 S. CR 200 W
Portland, IN 47371
740-513-9496

OHIO VALLEY GAS CORP.
Zach Bower
111 Energy Park Dr.
Winchester, IN 47394
765-584-6842 x609

LUMEN
Eric Flory
52 Farm View Dr. Suite 201
New Gloucester, ME 04260
419-497-2045

GENERAL NOTES

1. All earth shoulders, median areas, cut and fill slopes shall be plain or mulched seeded except where sodding is specified.
2. This set of plans shall not be construed to be a Property Retacement Survey. Where apparent property lines, owners, or section corner information is shown it is based upon physical evidence or testimony.
3. The vertical datum used for the project is N.A.V.D. 1988.

INDEX

REVISIONS

SHEET NO.	DATE	REVISED

TRAFFIC DATA Str. No. 1 (CLV-001-068-87.96)

A.A.D.T.	(2023)	1,221 V.P.D.
A.A.D.T.	(2043)	1,456 V.P.D.
D.H.V	(2043)	1,007 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		14.7% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA Str. No. 2 (CLV-001-038-110.71)

A.A.D.T.	(2023)	2,121 V.P.D.
A.A.D.T.	(2043)	2,528 V.P.D.
D.H.V	(2043)	1,007 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		24.2% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA Str. No. 3 (CLV-001-038-110.93)

A.A.D.T.	(2023)	1,973 V.P.D.
A.A.D.T.	(2043)	2,352 V.P.D.
D.H.V	(2043)	1,007 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		34.6% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA Str. No. 4 (CLV-026-005-125.01)

A.A.D.T.	(2023)	1,841 V.P.D.
A.A.D.T.	(2043)	2,191 V.P.D.
D.H.V	(2043)	1,015 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		20.0% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA Str. No. 5 (CLV-027-068-55.25)

A.A.D.T.	(2023)	3,934 V.P.D.
A.A.D.T.	(2043)	4,691 V.P.D.
D.H.V	(2043)	1,007 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		17.9% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	PRINCIPLE ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA Str. No. 6 (CLV-027-038-57.06)

A.A.D.T.	(2023)	3,432 V.P.D.
A.A.D.T.	(2043)	4,092 V.P.D.
D.H.V	(2043)	1,007 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		24.5% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	PRINCIPLE ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA Str. No. 7 (CLV-027-038-61.28)

A.A.D.T.	(2023)	3,952 V.P.D.
A.A.D.T.	(2043)	4,712 V.P.D.
D.H.V	(2043)	1,007 V.P.H.
DIRECTIONAL DISTRIBUTION		50.00% / 50.00%
TRUCKS		26.3% A.A.D.T.
		9.6% D.H.V.

DESIGN DATA

DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	PRINCIPLE ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: KRT DRAWN: KRT

CHECKED: AJK CHECKED: AJK

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	2 of 102
CONTRACT	PROJECT
R-43491	1902734

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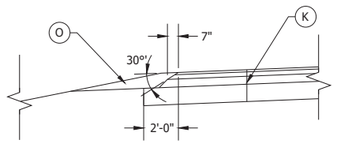

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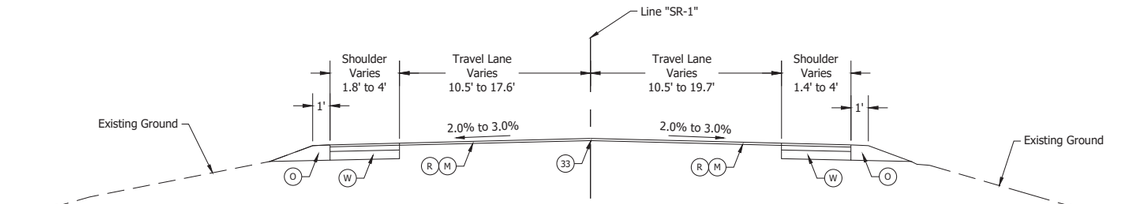
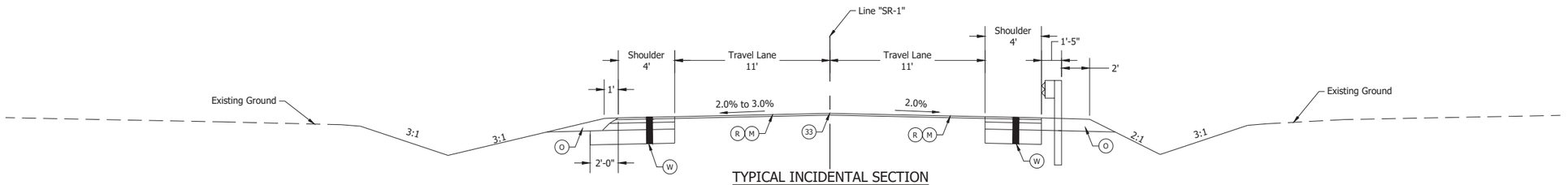


TYPICAL INCIDENTAL SECTION

Sta. 26+10.00 - Sta. 27+01.00
Sta. 30+72.09 - Sta. 32.04.02



TYPICAL INCIDENTAL SECTION

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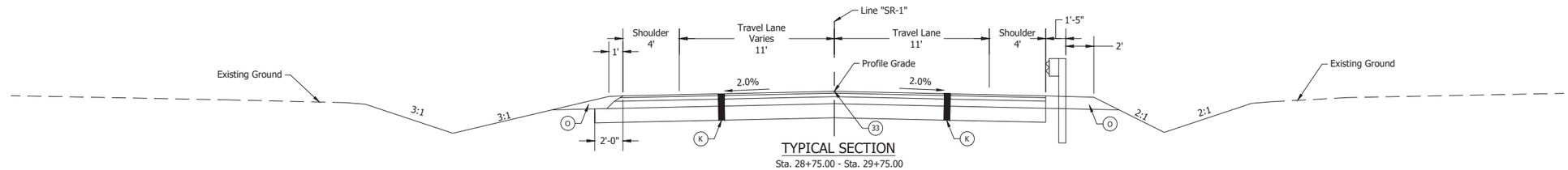
Sta. 29+75.00 - Sta. 30+72.09



TYPICAL SECTION

Sta. 28+75.00 - Sta. 29+75.00

(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IVA

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

(33) HMA Centerline Rumble Stripes

(34) HMA Edgeline Rumble Stripes

(W) Widening With HMA, Type B
165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IVA

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: SMF DRAWN: KRT

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 1 (CLV-001-068-87.96) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 102
CONTRACT	PROJECT
R-43491	1902734

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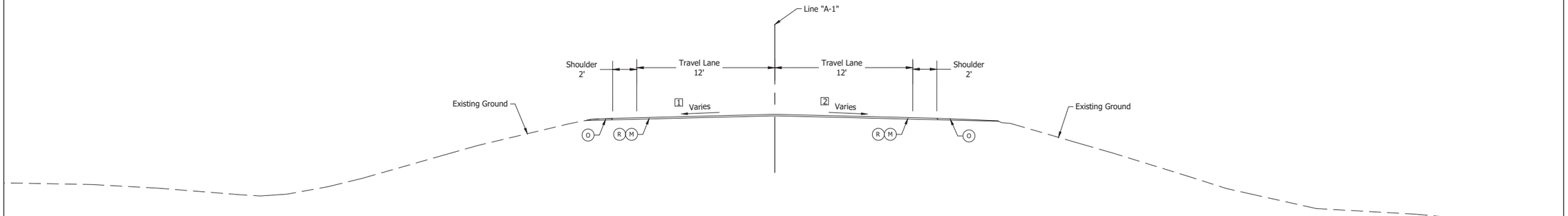
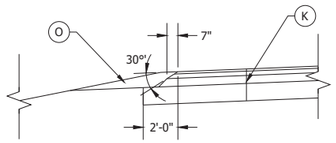


TYPICAL INCIDENTAL SECTION

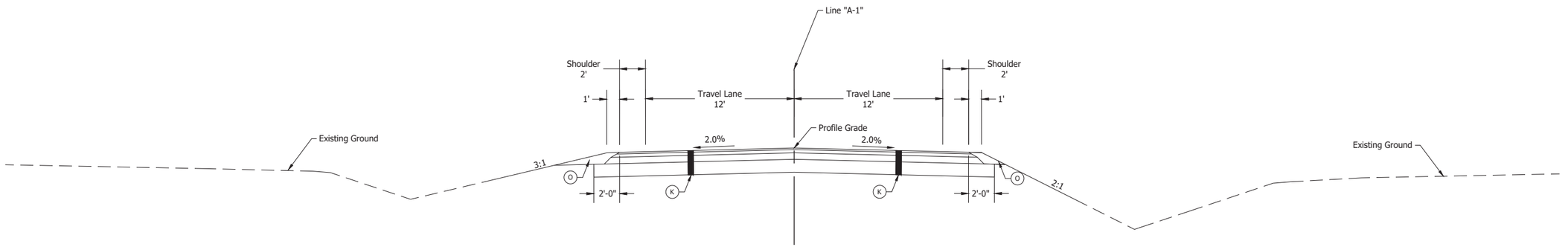
Sta. 98+25.00 - Sta. 98+75.00
Sta. 99+50.00 - Sta. 100+00.00

1 Varies from 1.83% to 2.00%
From Sta. 98+25.00 to 98+75.00
Varies from 2.00% to 1.90%
From Sta. 99+50.00 to 100+00.00

2 Varies from 2.51% to 2.00%
From Sta. 98+25.00 to 98+75.00
Varies from 2.00% to 2.63%
From Sta. 99+50.00 to 100+00.00



SAFETY EDGE DETAIL



TYPICAL SECTION

Sta. 98+75.00 - Sta. 99+50.00

(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: KRT

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 2 (CLV-001-038-110.71) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 102
CONTRACT	PROJECT
R-43491	1902734

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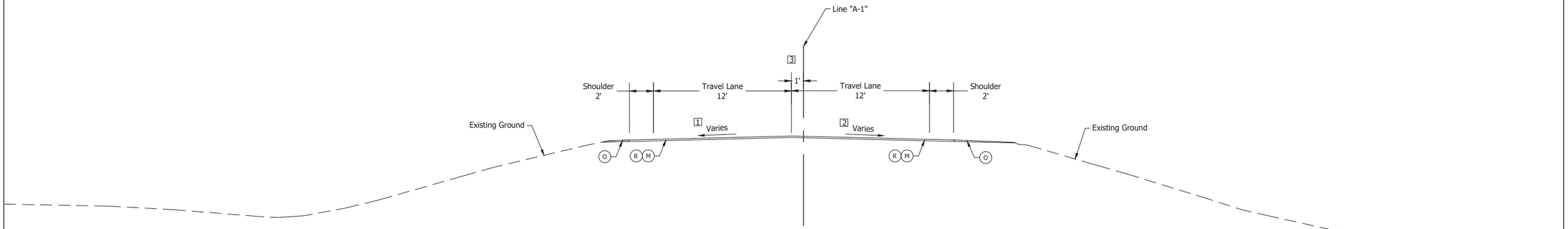


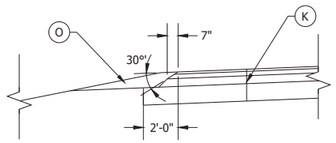
TYPICAL INCIDENTAL SECTION

Sta. 109+75.00 - Sta. 110+25.00
Sta. 110+90.00 - Sta. 111+40.00

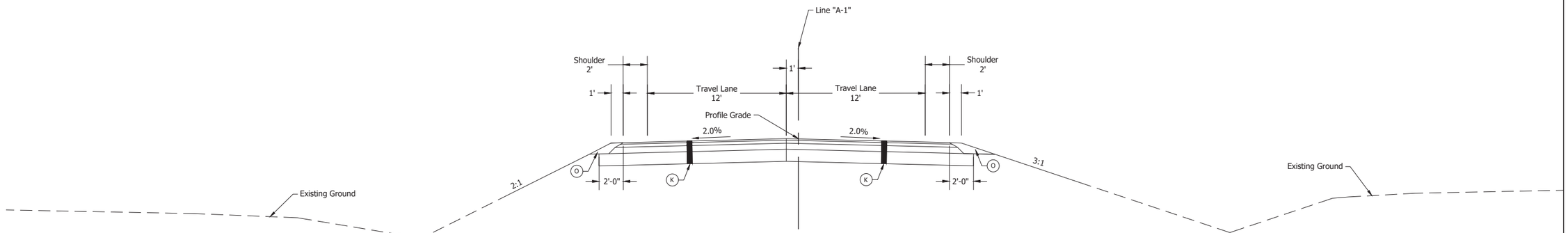
1 Varies from 2.37% to 2.00%
From Sta. 109+75.00 to 110+25.00
Varies from 2.00% to 2.27%
From Sta. 110+90.00 to 111+40.00

2 Varies from 2.12% to 2.00%
From Sta. 109+75.00 to 110+25.00
Varies from 2.00% to 2.40%
From Sta. 110+90.00 to 111+40.00

3 Varies from 0.00' to 1.00'
From Sta. 109+75.00 to 110+25.00
Varies from 1.00' to 0.00'
From Sta. 110+90.00 to 111+40.00



SAFETY EDGE DETAIL



TYPICAL SECTION

Sta. 110+25.00 - Sta. 110+90.00

(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on
275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on
660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on
Subgrade Treatment, Type IC, on
Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: KRT

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 3 (CLV-001-038-110.93) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:06pm User Name: BBritton
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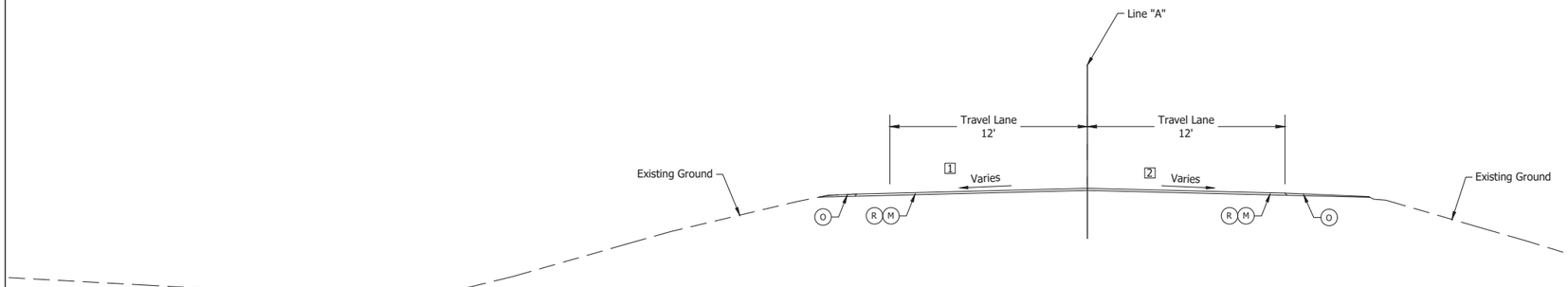
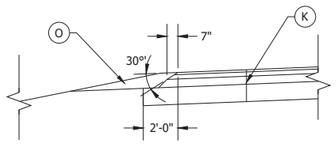


TYPICAL INCIDENTAL SECTION

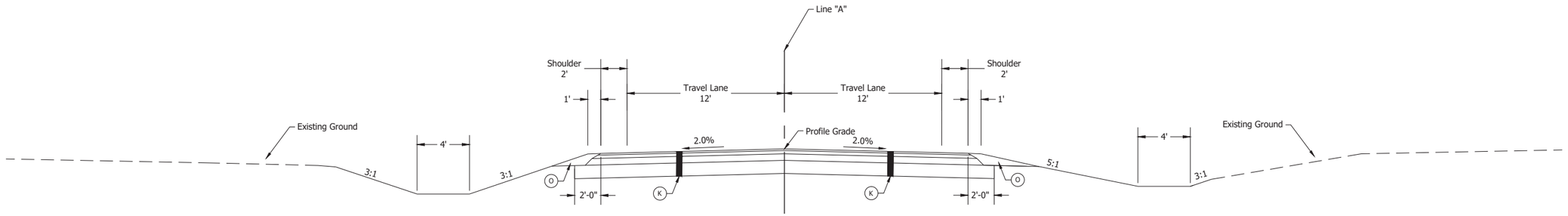
Sta. 607+50.00 - Sta. 608+00.00
Sta. 610+00.00 - Sta. 610+50.00

1 Varies from 2.24% to 2.00%
From Sta. 607+50.00 to 608+00.00
Varies from 2.00% to 2.54%
From Sta. 610+00.00 to 610+50.00

2 Varies from 1.64% to 2.00%
From Sta. 607+50.00 to 608+00.00
Varies from 2.00% to 1.93%
From Sta. 610+00.00 to 610+50.00



SAFETY EDGE DETAIL



TYPICAL SECTION

Sta. 608+00.00 - Sta. 610+00.00

(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: KRT

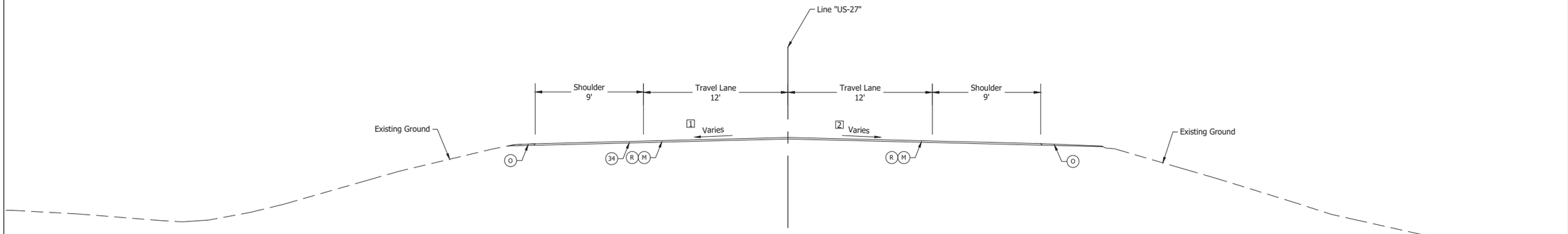
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 4 (CLV-026-005-125.01) - S.R 26

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:06pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-021\Departments\HYI\CAD\MiscDWG\Typical Sections.dwg

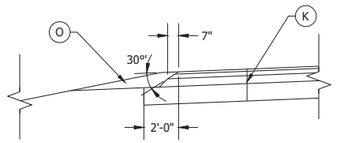


TYPICAL INCIDENTAL SECTION

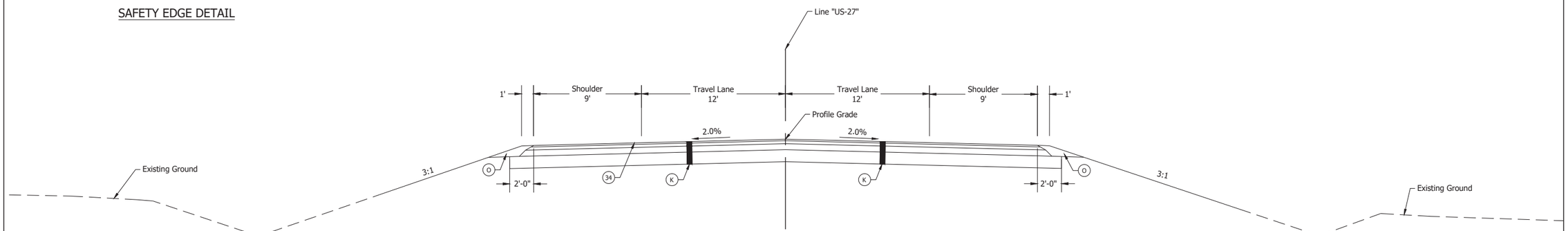
Sta. 328+25.00 - Sta. 328+75.00
Sta. 329+40.00 - Sta. 329+90.00

1 Varies from 3.28% to 2.00%
From Sta. 328+25.00 to 328+75.00
Varies from 2.00% to 3.56%
From Sta. 329+40.00 to 329+90.00

2 Varies from 2.75% to 2.00%
From Sta. 328+25.00 to 328+75.00
Varies from 2.00% to 2.96%
From Sta. 329+40.00 to 329+90.00



SAFETY EDGE DETAIL



TYPICAL SECTION

Sta. 328+75.00 - Sta. 329+40.00

K 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 880 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

M Milling, Transition (1.5 IN. Max)

R 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

O Variable Depth Compacted Aggregate No. 53

33 HMA Centerline Rumble Stripes

34 HMA Edgeline Rumble Stripes

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: KRT

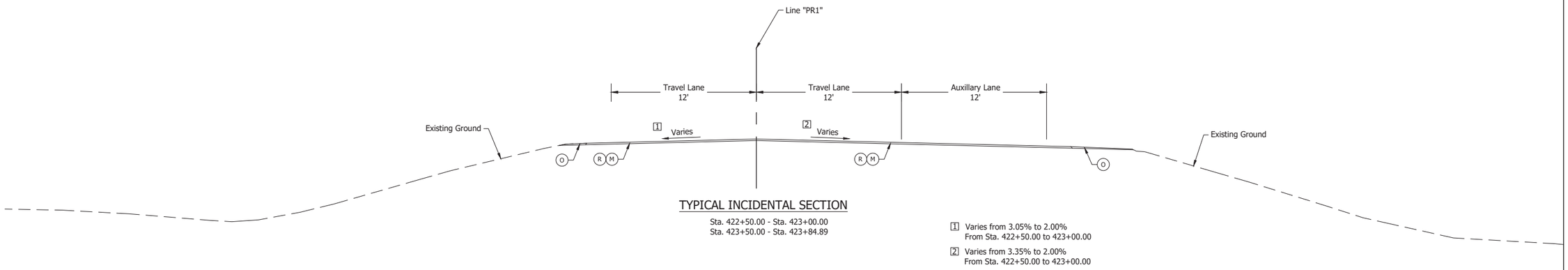
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 5 (CLV-027-068-55.25) - U.S. 27

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:46pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-021\Departments\HYI\CAD\Misc\DWG\Typical Sections.dwg

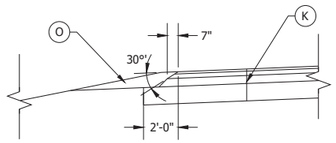


TYPICAL INCIDENTAL SECTION

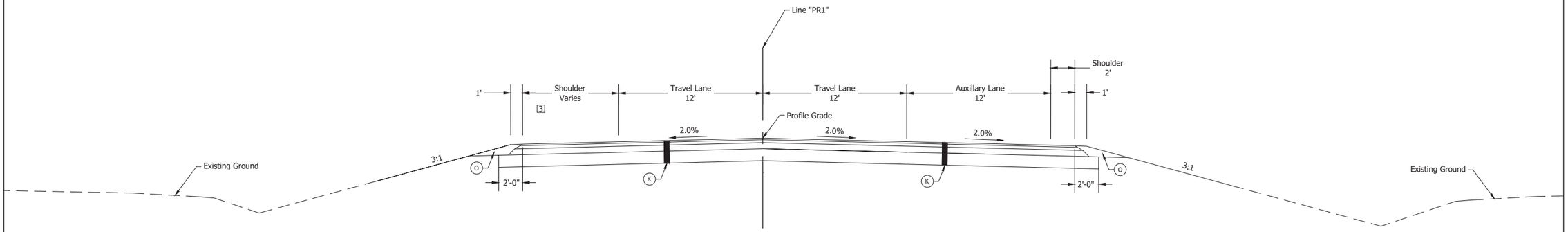
Sta. 422+50.00 - Sta. 423+00.00
Sta. 423+50.00 - Sta. 423+84.89

1 Varies from 3.05% to 2.00%
From Sta. 422+50.00 to 423+00.00

2 Varies from 3.35% to 2.00%
From Sta. 422+50.00 to 423+00.00



SAFETY EDGE DETAIL



TYPICAL SECTION

Sta. 423+00.00 - Sta. 423+50.00

3 Varies from 11.4' to 13.1'
From Sta. 422+50.00 to 423+00.00

(K) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on
275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on
880 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on
Subgrade Treatment, Type IC, on
Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: KRT

CHECKED: AJK CHECKED: AJK

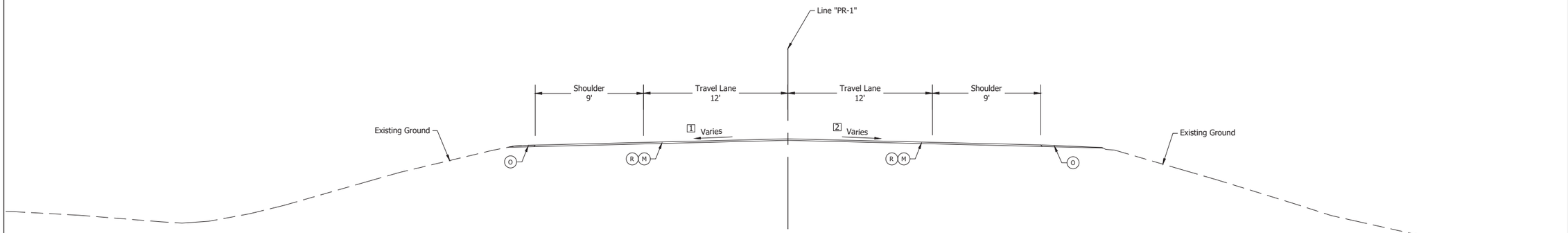
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 6 (CLV-027-038-57.06) - U.S. 27

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734

SURVEY BOOK	SHEETS
ELECTRONIC	14 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:06pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-02\Departments\H1\CAD\Misc\DWG\Typical Sections.dwg

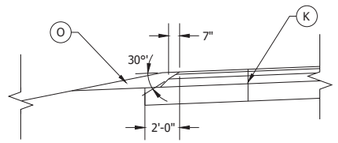


TYPICAL INCIDENTAL SECTION

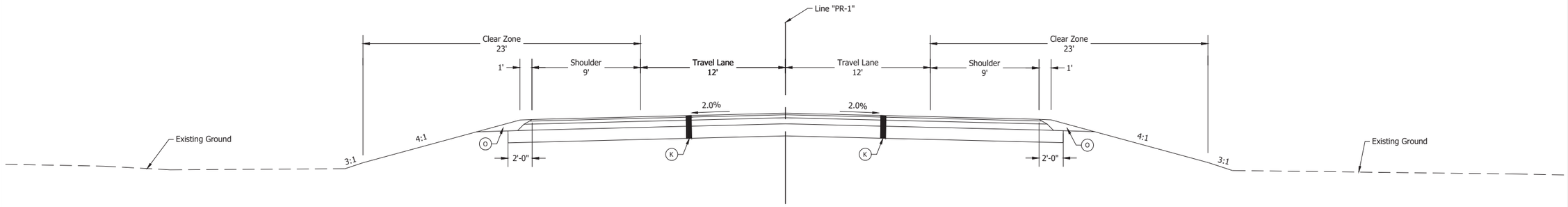
Sta. 645+75.00 - Sta. 646+25.00
Sta. 646+75.00 - Sta. 647+25.00

1 Varies from 2.87% to 2.00%
From Sta. 645+75.00 to 646+25.22
Varies from 2.00% to 3.20%
From Sta. 646+75.00 to 647+25.22

2 Varies from 3.17% to 2.00%
From Sta. 645+75.00 to 646+25.22
Varies from 2.00% to 3.23%
From Sta. 646+75.00 to 647+25.22



SAFETY EDGE DETAIL



TYPICAL SECTION

Sta. 646+25.00 - Sta. 646+75.00

K 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on
275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on
880 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on
Subgrade Treatment, Type IC, on
Geotextile for Pavement, Type 2B

M Milling, Transition (1.5 IN. Max)

R 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

O Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: KRT

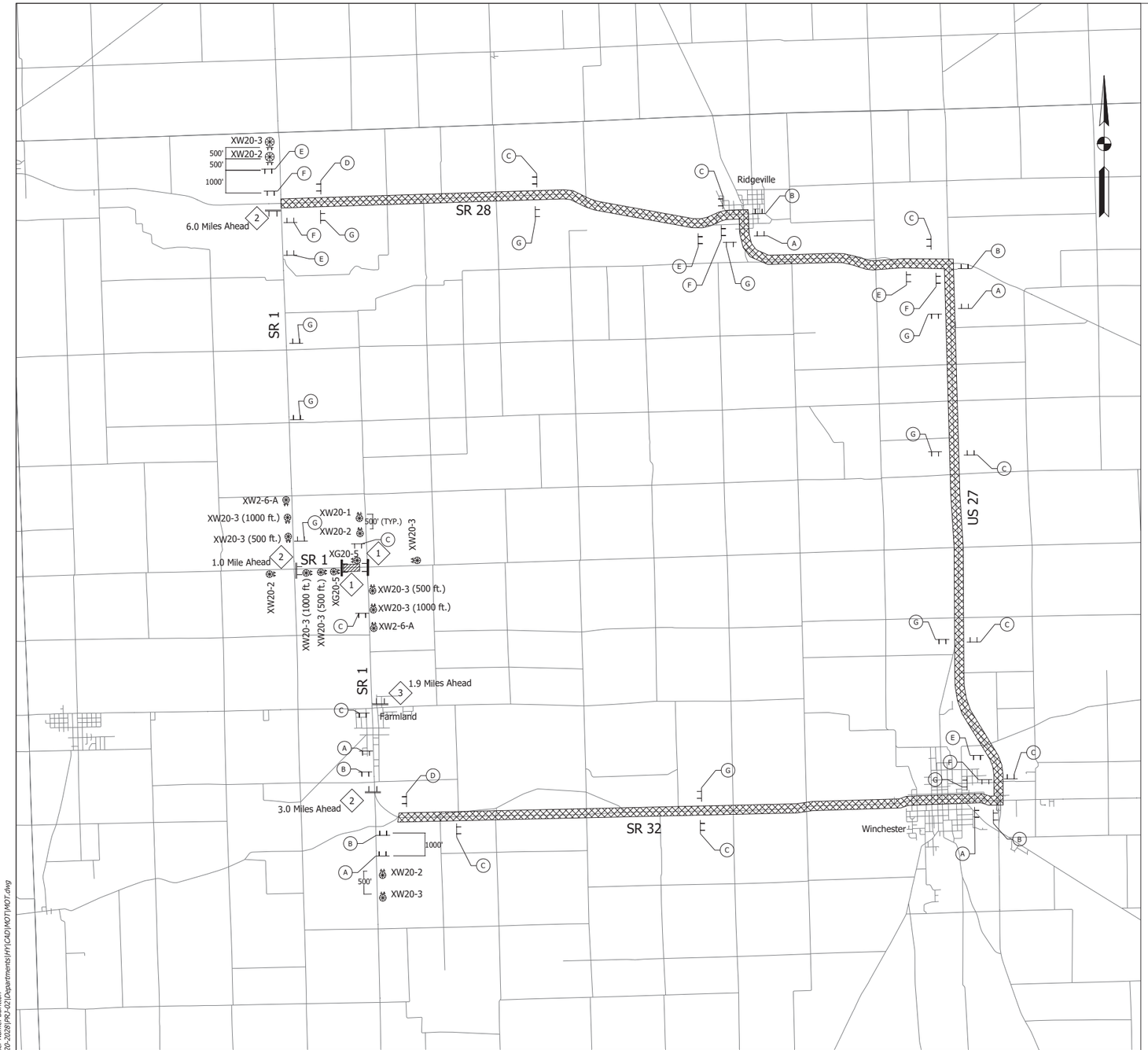
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STR. NO. 7 (CLV-027-038-61.28) - U.S. 27

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	15 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:06pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-02\Departments\HYICAD\Misc\DWG\Typical Sections.dwg



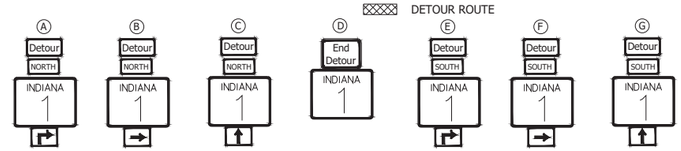
CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	EST. QTY.
XW20-1	"ROAD CONSTRUCTION AHEAD" SIGN	48 x 48	A	1
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	4
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	3
XW20-3 (500 FT)	"ROAD CLOSED 500 FT"	48 x 48	A	3
XW20-3 (1000 FT)	"ROAD CLOSED 1000 FT"	48 x 48	A	3
XW2-6-A	WORKSITE ADDED PENALTY SIGN	60 x 36	A	2
XG20-5	"ROAD CLOSED ON OR AFTER XX-XX" SIGN	60 x 36	A	2
		CONSTRUCTION SIGN, A		18

DETOUR ROUTE MARKER ASSEMBLIES: 44 EACH
ROAD CLOSURE SIGN ASSEMBLY: 6 EACH
TYPE III-A BARRICADES: 48 LFT.
TYPE III-B BARRICADES: 96 LFT.

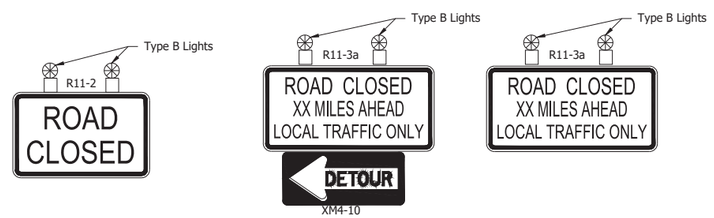
1. Road Closure Sign Assembly with Type A Barricades (2 x 12') = 24 LFT), R11-2
2. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-3a and M4-10 (R) or (L)
3. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-3a

LEGEND:

- TYPE B CONSTRUCTION WARNING LIGHTS
- CONSTRUCTION SIGN (WITH TYPE A CONSTRUCTION WARNING LIGHTS)
- CONSTRUCTION SIGN
- BARRICADE, TYPE III-A
- BARRICADE, TYPE III-B
- CONSTRUCTION ZONE
- DETOUR ROUTE



A	B	C	D	E	F	G
XM4-8 M3-1 M1-5a M5-1 (R OR L)	XM4-8 M3-1 M1-5a M6-1 (R OR L)	XM4-8 M3-1 M1-5a M6-3	XM4-8a M1-5a	XM4-8 M3-3 M1-5a M5-1 (R OR L)	XM4-8 M3-3 M1-5a M6-1 (R OR L)	XM4-8 M3-3 M1-5a M6-3



ROAD CLOSURE SIGN ASSEMBLY 1 | ROAD CLOSURE SIGN ASSEMBLY 2 | ROAD CLOSURE SIGN ASSEMBLY 3

NOTES

1. ALL MAINTENANCE OF TRAFFIC DEVICES, SIGNS, AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE INDIANA MUTCD.
2. SEE INDOT STD DWG 801-TCDT-01 FOR ADDITIONAL DETAILS.
3. SEE INDOT STD DWG 801-TCLG-01 FOR GENERAL NOTES.
4. ACCESS SHALL BE MAINTAINED FOR RESIDENTS AT ALL TIMES.
5. THE CONSTRUCTION OF THE STRUCTURES SHALL BE SEQUENCED SUCH THAT OVERLAPPING DETOUR ROUTES ARE NOT USED CONCURRENTLY.
6. CONSTRUCTION SIGN, A SPACING SHALL BE 500 FT. UNLESS NOTED.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

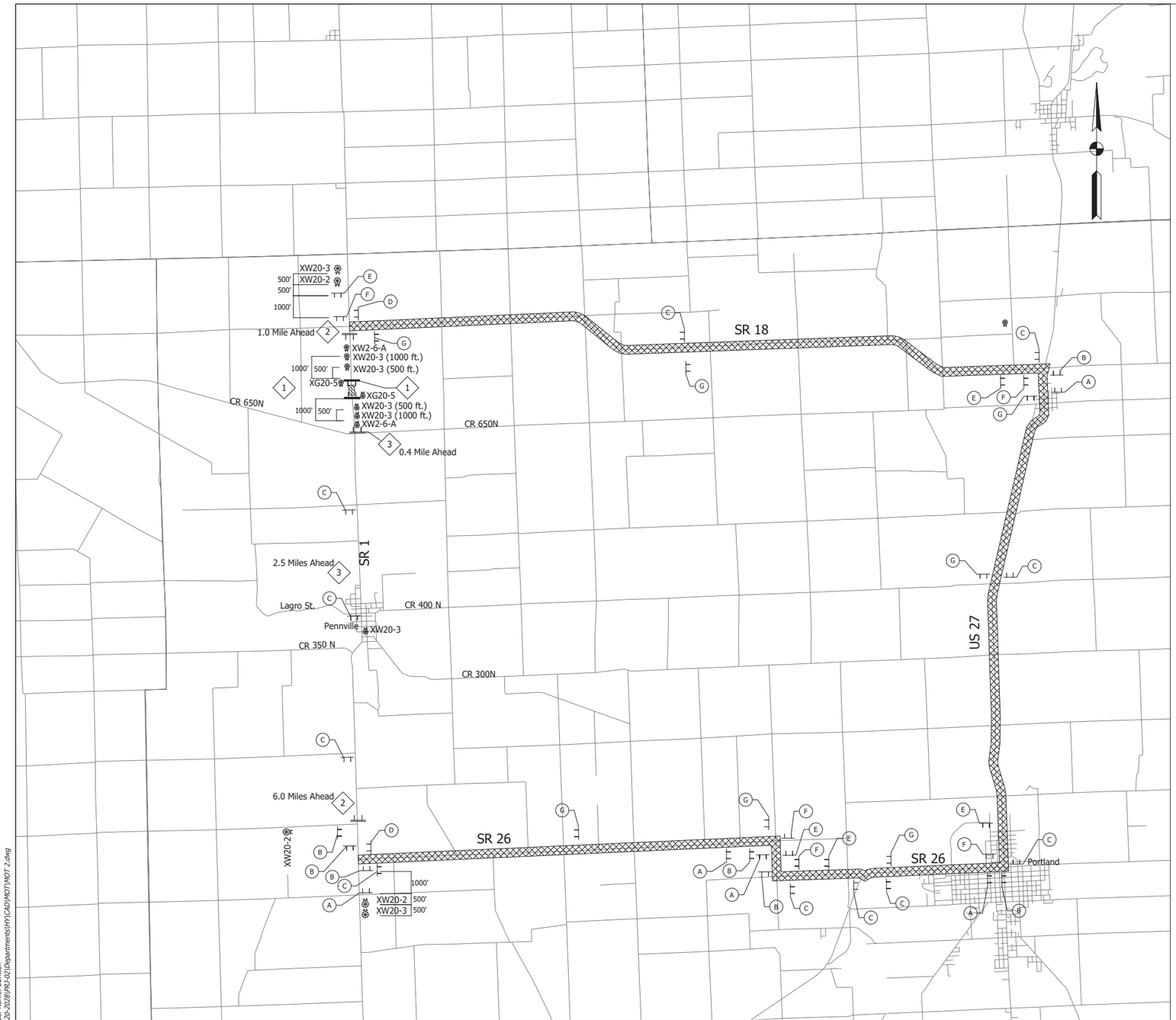
DESIGNED: SMF DRAWN: SMF
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 1 (CLV-001-068-87.96) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=1200'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	20 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:07pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-021\Departments\HYI\CAD\MOT\MOT.dwg



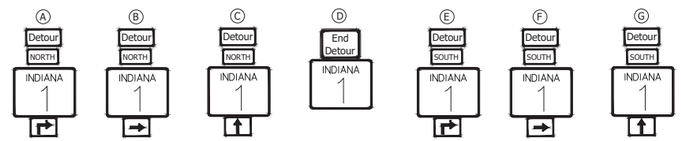
CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	EST. QTY.
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	3
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	3
XW20-3 (500 FT)	"ROAD CLOSED 500 FT"	48 x 48	A	2
XW20-3 (1000 FT)	"ROAD CLOSED 1000 FT"	48 x 48	A	2
XW2-6-A	WORKSITE ADDED PENALTY SIGN	60 x 36	A	2
XG20-5	"ROAD CLOSED ON OR AFTER XX-XX" SIGN	60 x 36	A	2
		CONSTRUCTION SIGN, A		14

DETOUR ROUTE MARKER ASSEMBLIES: 43 EACH
ROAD CLOSURE SIGN ASSEMBLY: 6 EACH
TYPE III-A BARRICADES: 48 LFT.
TYPE III-B BARRICADES: 96 LFT.

1. Road Closure Sign Assembly with Type A Barricades (2 x 12') = 24 LFT), R11-2
2. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-4 and M4-10 (R) or (L)
3. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-4

LEGEND:

- TYPE B CONSTRUCTION WARNING LIGHTS
- CONSTRUCTION SIGN (WITH TYPE A CONSTRUCTION WARNING LIGHTS)
- CONSTRUCTION SIGN
- BARRICADE, TYPE III-A
- BARRICADE, TYPE III-B
- CONSTRUCTION ZONE
- DETOUR ROUTE



XM4-8 M3-1 M1-5a M5-1 (R OR L) | XM4-8 M3-1 M1-5a M6-1 (R OR L) | XM4-8 M3-1 M1-5a M6-3 | XM4-8a M1-5a | XM4-8 M3-3 M1-5a M5-1 (R OR L) | XM4-8 M3-3 M1-5a M6-1 (R OR L) | XM4-8 M3-3 M1-5a M6-3

XW20-2 | XW20-3 | XW20-3 | XW20-3

XM4-10

ROAD CLOSURE SIGN ASSEMBLY 1 | ROAD CLOSURE SIGN ASSEMBLY 2 | ROAD CLOSURE SIGN ASSEMBLY 3

NOTES

1. ALL MAINTENANCE OF TRAFFIC DEVICES, SIGNS, AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE INDIANA MUTCD.
2. SEE INDOT STD DWG 801-TCDT-01 FOR ADDITIONAL DETAILS.
3. SEE INDOT STD DWG 801-TCLG-01 FOR GENERAL NOTES.
4. ACCESS SHALL BE MAINTAINED FOR RESIDENTS AT ALL TIMES.
5. THE CONSTRUCTION OF THE STRUCTURES SHALL BE SEQUENCED SUCH THAT OVERLAPPING DETOUR ROUTES ARE NOT USED CONCURRENTLY.
6. CONSTRUCTION SIGN, A SPACING SHALL BE 500 FT. UNLESS NOTED.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 2 (CLV-001-038-110.71) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=1200'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	21 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:08pm User Name: BBritton
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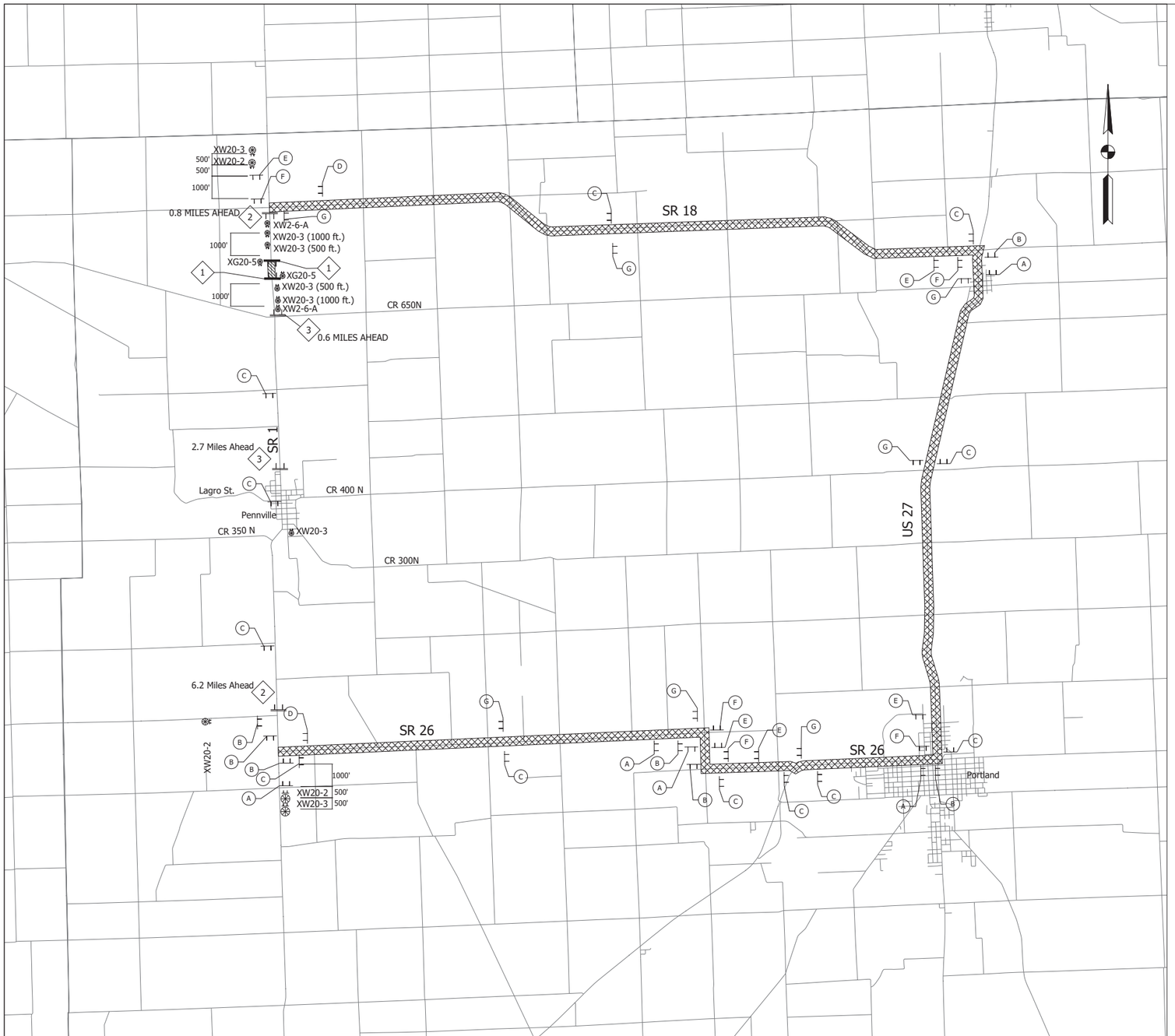


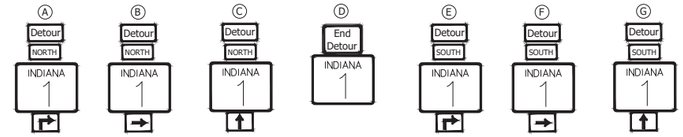
CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	EST. QTY.
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	3
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	3
XW20-3 (500 FT)	"ROAD CLOSED 500 FT"	48 x 48	A	2
XW20-3 (1000 FT)	"ROAD CLOSED 1000 FT"	48 x 48	A	2
XW2-6-A	WORKSITE ADDED PENALTY SIGN	60 x 36	A	2
XG20-5	"ROAD CLOSED ON OR AFTER XX-XX" SIGN	60 x 36	A	2
			CONSTRUCTION SIGN, A	14

DETOUR ROUTE MARKER ASSEMBLIES: 43 EACH
ROAD CLOSURE SIGN ASSEMBLY: 6 EACH
TYPE III-A BARRICADES: 48 LFT.
TYPE III-B BARRICADES: 96 LFT.

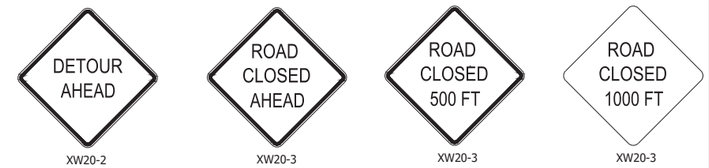
1. Road Closure Sign Assembly with Type A Barricades (2 x 12') = 24 LFT), R11-2
2. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-3a and M4-10 (R) or (L)
3. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-3a

LEGEND:

- TYPE B CONSTRUCTION WARNING LIGHTS
- CONSTRUCTION SIGN (WITH TYPE A CONSTRUCTION WARNING LIGHTS)
- CONSTRUCTION SIGN
- BARRICADE, TYPE III-A
- BARRICADE, TYPE III-B
- CONSTRUCTION ZONE
- DETOUR ROUTE



XM4-8 M3-1 M1-5a M5-1 (R OR L)	XM4-8 M3-1 M1-5a M6-1 (R OR L)	XM4-8 M3-1 M1-5a M6-3	XM4-8a M1-5a	XM4-8 M3-3 M1-5a M5-1 (R OR L)	XM4-8 M3-3 M1-5a M6-1 (R OR L)	XM4-8 M3-3 M1-5a M6-3



XW20-2 | XW20-3 | XW20-3 | XW20-3

XM4-10

ROAD CLOSURE SIGN ASSEMBLY 1 | ROAD CLOSURE SIGN ASSEMBLY 2 | ROAD CLOSURE SIGN ASSEMBLY 3

NOTES

1. ALL MAINTENANCE OF TRAFFIC DEVICES, SIGNS, AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE INDIANA MUTCD.
2. SEE INDOT STD DWG 801-TCDT-01 FOR ADDITIONAL DETAILS.
3. SEE INDOT STD DWG 801-TCLG-01 FOR GENERAL NOTES.
4. ACCESS SHALL BE MAINTAINED FOR RESIDENTS AT ALL TIMES.
5. THE CONSTRUCTION OF THE STRUCTURES SHALL BE SEQUENCED SUCH THAT OVERLAPPING DETOUR ROUTES ARE NOT USED CONCURRENTLY.
6. CONSTRUCTION SIGN, A SPACING SHALL BE 500 FT. UNLESS NOTED.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 3 (CLV-001-038-110.93) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=1200'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	22 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:08pm User Name: BBritton
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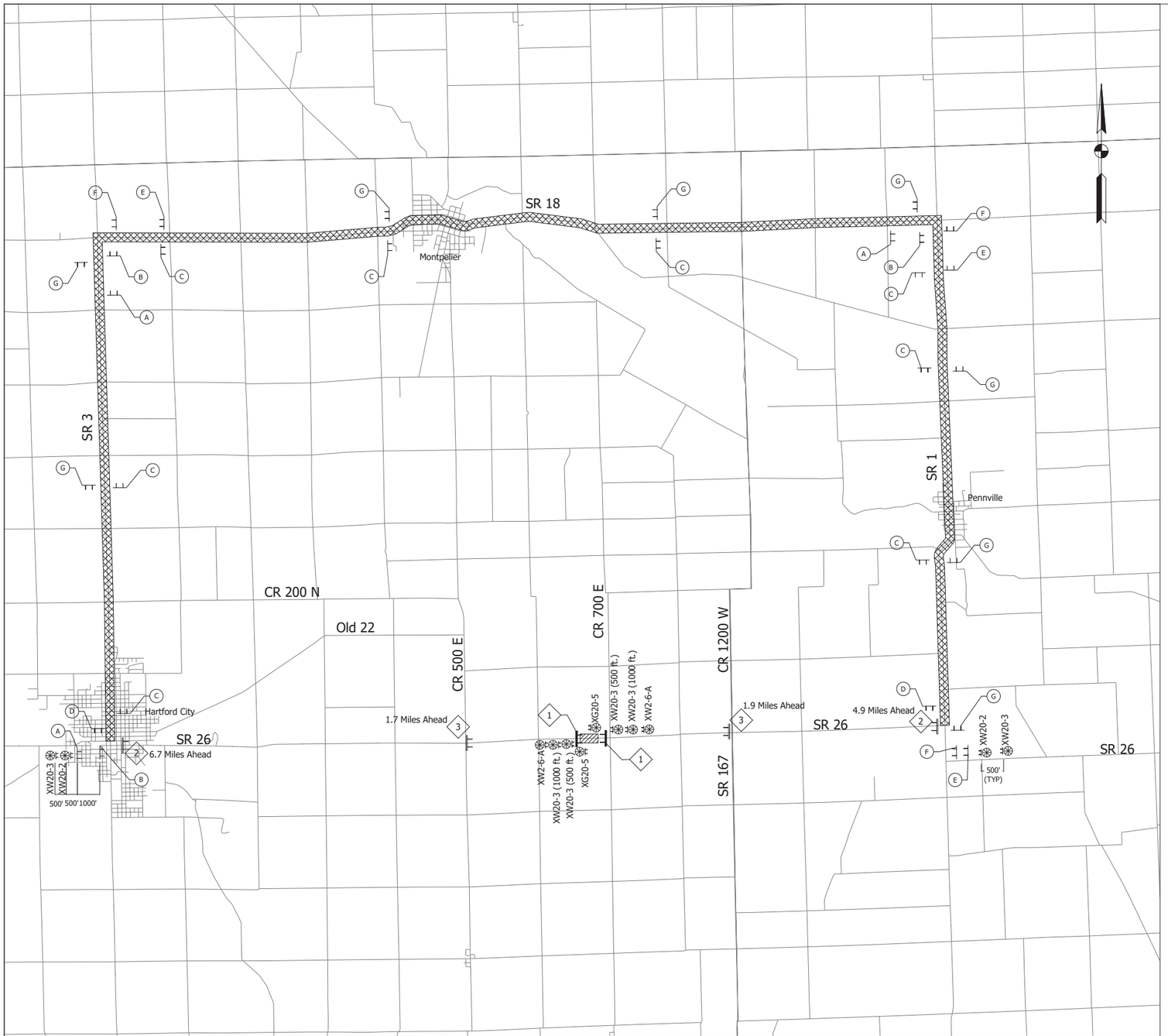


CONSTRUCTION SIGN SCHEDULE

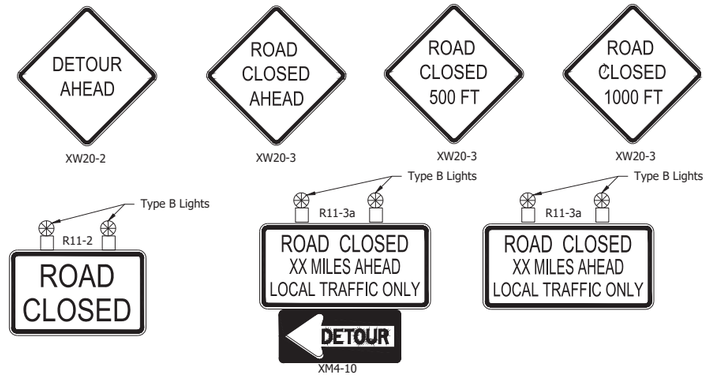
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	EST. QTY.
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	2
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	2
XW20-3 (500 FT)	"ROAD CLOSED 500 FT"	48 x 48	A	2
XW20-3 (1000 FT)	"ROAD CLOSED 1000 FT"	48 x 48	A	2
XW2-6-A	WORKSITE ADDED PENALTY SIGN	60 x 36	A	2
XG20-5	"ROAD CLOSED ON OR AFTER XX-XX" SIGN	60 x 36	A	2
			CONSTRUCTION SIGN, A	12

DETOUR ROUTE MARKER ASSEMBLIES: 30 EACH
ROAD CLOSURE SIGN ASSEMBLY: 6 EACH
TYPE III-A BARRICADES: 48 LFT.
TYPE III-B BARRICADES: 96 LFT.

1. Road Closure Sign Assembly with Type A Barricades (2 x 12') = 24 LFT), R11-2
2. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-4 and M4-10 (R) or (L)
3. Road Closure Sign Assembly with Type B Barricades (2 x 12') = 24 LFT), R11-4

LEGEND:

- TYPE B CONSTRUCTION WARNING LIGHTS
- CONSTRUCTION SIGN (WITH TYPE A CONSTRUCTION WARNING LIGHTS)
- CONSTRUCTION SIGN
- BARRICADE, TYPE III-A
- BARRICADE, TYPE III-B
- CONSTRUCTION ZONE
- DETOUR ROUTE



ROAD CLOSURE SIGN ASSEMBLY 1 — ROAD CLOSURE SIGN ASSEMBLY 2 — ROAD CLOSURE SIGN ASSEMBLY 3

NOTES

1. ALL MAINTENANCE OF TRAFFIC DEVICES, SIGNS, AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE INDIANA MUTCD.
2. SEE INDOT STD DWG 801-TCDT-01 FOR ADDITIONAL DETAILS.
3. SEE INDOT STD DWG 801-TCLG-01 FOR GENERAL NOTES.
4. ACCESS SHALL BE MAINTAINED FOR RESIDENTS AT ALL TIMES.
5. THE CONSTRUCTION OF THE STRUCTURES SHALL BE SEQUENCED SUCH THAT OVERLAPPING DETOUR ROUTES ARE NOT USED CONCURRENTLY.
6. CONSTRUCTION SIGN, A SPACING SHALL BE 500 FT. UNLESS NOTED.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 4 (CLV-026-005-125.01) - S.R 26

HORIZONTAL SCALE	BRIDGE FILE
1"=1200'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	23 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:08pm User Name: BBritton
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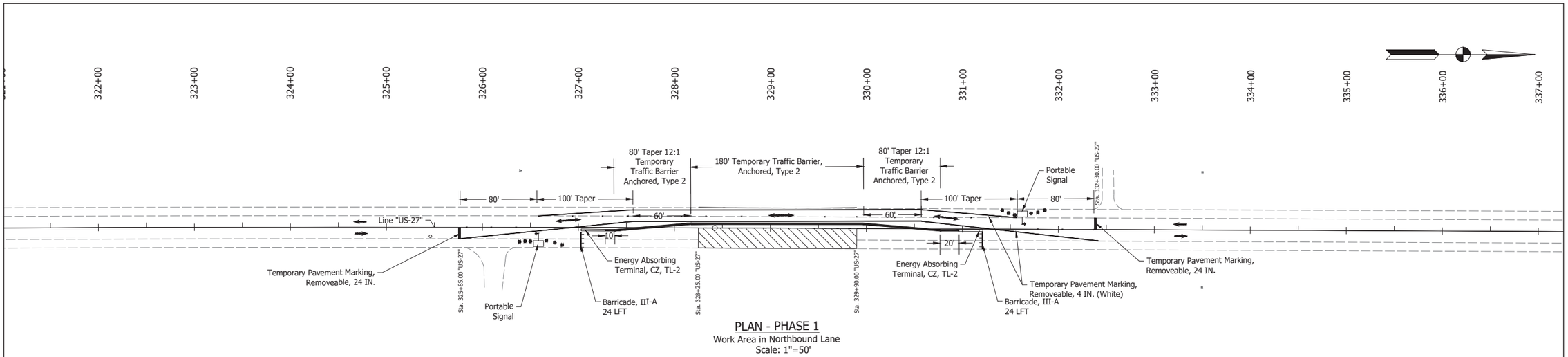
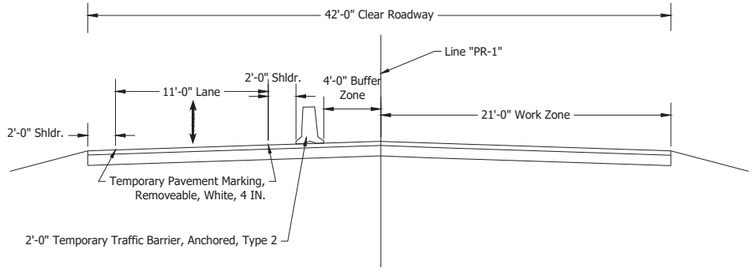


PLAN - PHASE 1
Work Area in Northbound Lane
Scale: 1"=50'

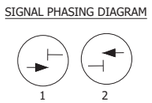


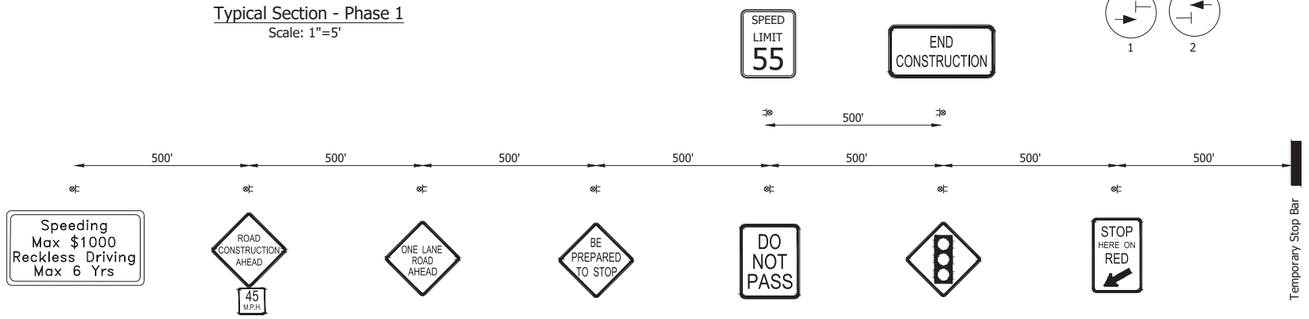
Typical Section - Phase 1
Scale: 1"=5'

LEGEND

- Temporary Traffic Barrier, Anchored, Type 2
- Work Zone
- Channelization Device
- Construction Sign
- Construction Warning Light, Type A
- Portable Signal
- Direction Of Traffic
- Line, Remove
- Barricade III-A

SIGNAL PHASING DIAGRAM





Advance Sign Detail
N.T.S.
Sign Detail shown for Northbound Direction. Signs reversed for Southbound Direction.

Construction Sign Schedule, Phase 1

Sign No	Description	Size (IN.)	Type	Est. Qty
XW2-6	Penalty Sign	60 x 36	A	2
XW20-1	Road Construction Ahead	48 x 48	A	2
XW20-4	One Lane Road Ahead	48 x 48	A	2
XW13-1A	Advisory Speed (45)	24 x 24	B	2
W3-4	Be Prepared to Stop	48 x 48	A	2
W3-3	Signal Ahead	48 x 48	A	2
R4-1	Do Not Pass	24 x 30	B	2
R10-6	Stop Here on Red	24 x 36	B	3
XG20-2	End Construction	60 x 36	A	2
R2-1	Speed Limit (55)	30 x 36	B	2
	Total Phase 1, Construction Sign, Type A			12
	Total Phase 1, Construction Sign, Type B			9

Item	Units	Total
Temporary Pavement Marking, Removeable, 4 IN.	LFT	1130
Temporary Transverse Pavement Marking, Removeable, 24 IN.	LFT	24
Maintaining Traffic	LS	1
Barricade, III-A	LFT	48
Temporary Traffic Barrier, Anchored, Type 2	LFT	370
Porable Signal	LS	1
Line, Remove	LFT	705

Posted design speed = 55 m.p.h.
Construction design speed = 45 m.p.h.
Construction clear zone = 16 feet.

NOTES:
1. One lane of traffic shall be maintained in each direction throughout the duration of the project. with the use of portable signals. See Str. No. 5 RSP 801-T-212 for portable signal timing.
2. Access to all drives must be maintained during all phases of construction.
3. All Maintenance of Traffic Devices, signs, and pavement markings shall conform to the latest edition of the Indiana MUTCD.

Date: Jul 20, 2022, 4:38pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-02\Departments\HYI\CAD\MOT\MOT - CLV-027-068-55.25 Phase 1.dwg

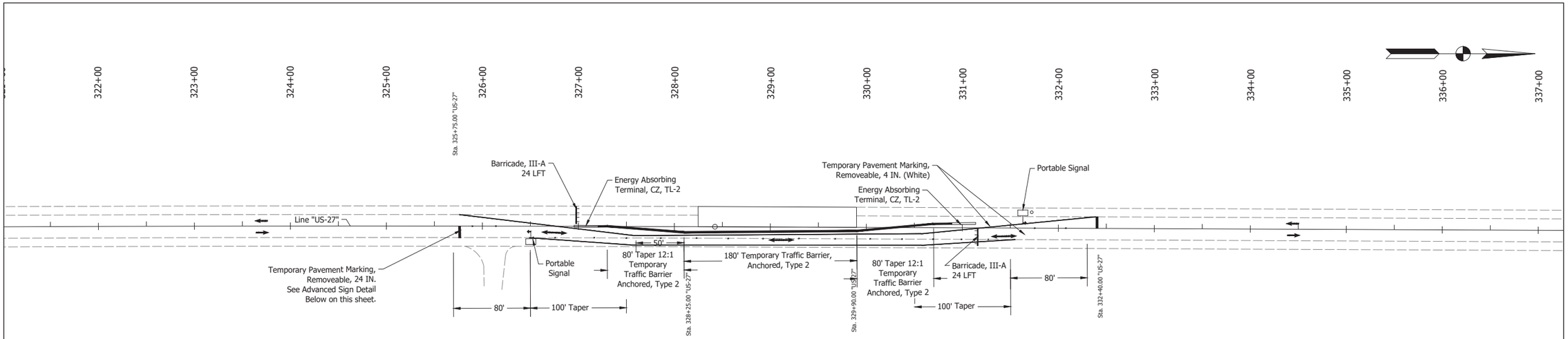
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SCS DRAWN: SCS
CHECKED: AJK CHECKED: AJK

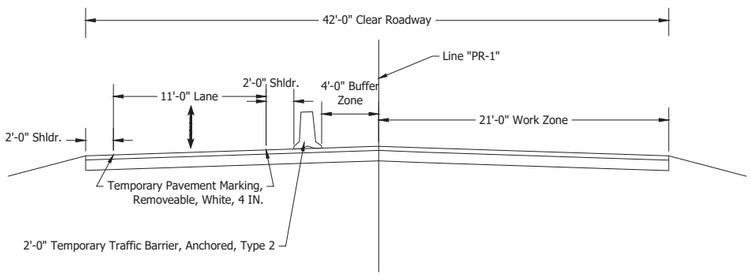
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 5 (CLV-027-068-55.25) - PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	24 of 102
CONTRACT	PROJECT
R-43491	1902734



PLAN - PHASE 2
Work Area in Southbound Lane
Scale: 1"=50'

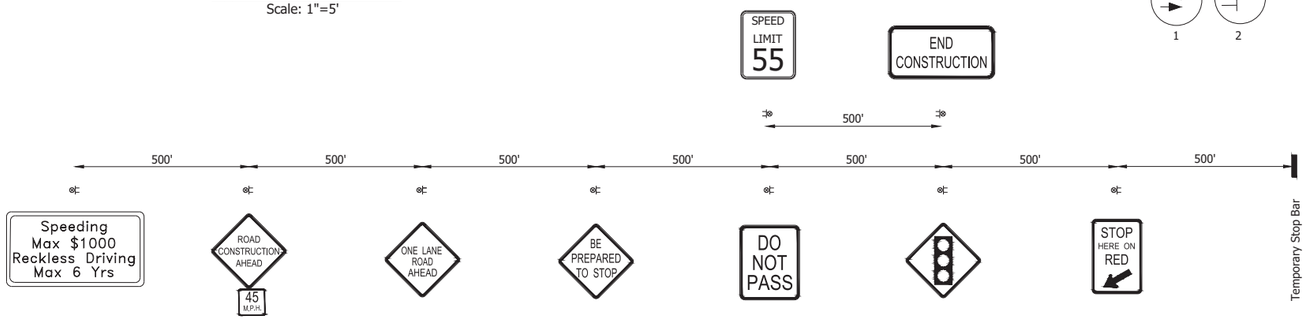


Typical Section - Phase 2
Scale: 1"=5'

LEGEND

- Temporary Traffic Barrier, Anchored, Type 2
- Work Zone
- Channelization Device
- Construction Sign
- Construction Warning Light, Type A
- Portable Signal
- Direction Of Traffic
- Line, Remove
- Barricade III-A

SIGNAL PHASING DIAGRAM



Advance Sign Detail
N.T.S.
Sign Detail shown for Northbound Direction. Signs reversed for Southbound Direction.

Construction Sign Schedule, Phase 2

Sign No	Description	Size (IN.)	Type	Est. Qty
XW2-6	Penalty Sign	60 x 36	A	2
XW20-1	Road Construction Ahead	48 x 48	A	2
XW20-4	One Lane Road Ahead	48 x 48	A	2
XW13-1A	Advisory Speed (45)	24 x 24	B	2
W3-4	Be Prepared to Stop	48 x 48	A	2
W3-3	Signal Ahead	48 x 48	A	2
R4-1	Do Not Pass	24 x 30	B	2
R10-6	Stop Here on Red	24 x 36	B	2
XG20-2	End Construction	60 x 36	A	2
R2-1	Speed Limit (55)	30 x 36	B	2
	Total Phase 2, Construction Sign, Type A			12
	Total Phase 2, Construction Sign, Type B			8

Item	Units	Total
Temporary Pavement Marking, Removeable, 4 IN.	LFT	2236
Temporary Transverse Pavement Marking, Removeable, 24 IN.	LFT	24
Maintaining Traffic	LS	1
Barricade, III-A	LFT	48
Temporary Traffic Barrier, Anchored, Type 2	LFT	370
Portable Signal	LS	1
Line, Remove	LFT	485

Posted design speed = 55 m.p.h.
Construction design speed = 45 m.p.h.
Construction clear zone = 16 feet.

NOTES:
1. One lane of traffic shall be maintained in each direction throughout the duration of the project. with the use of portable signals. See Str. No. 5 RSP 801-T-212 for portable signal timing.
2. Access to all drives must be maintained during all phases of construction.
3. All Maintenance of Traffic Devices, signs, and pavement markings shall conform to the latest edition of the Indiana MUTCD.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SCS DRAWN: SCS
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 5 (CLV-027-068-55.25) - PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	25 of 102
CONTRACT	PROJECT
R-43491	1902734

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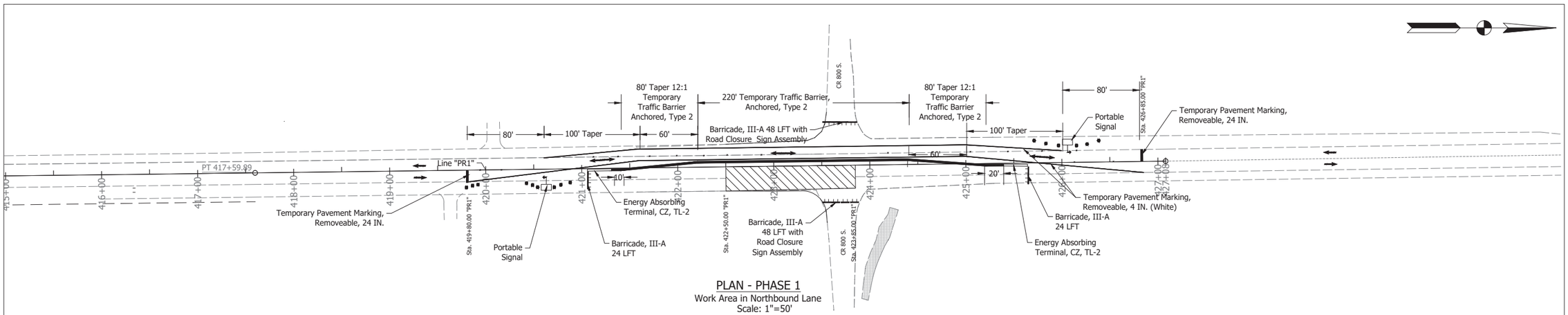
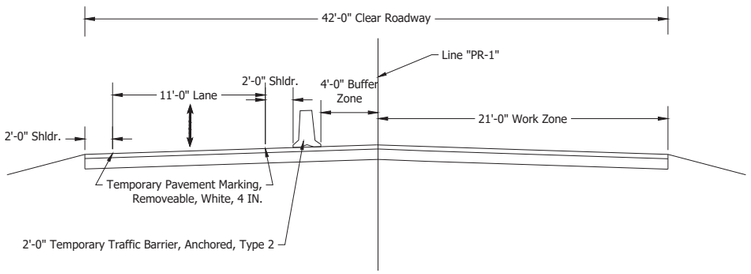


PLAN - PHASE 1
Work Area in Northbound Lane
Scale: 1"=50'

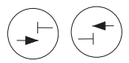


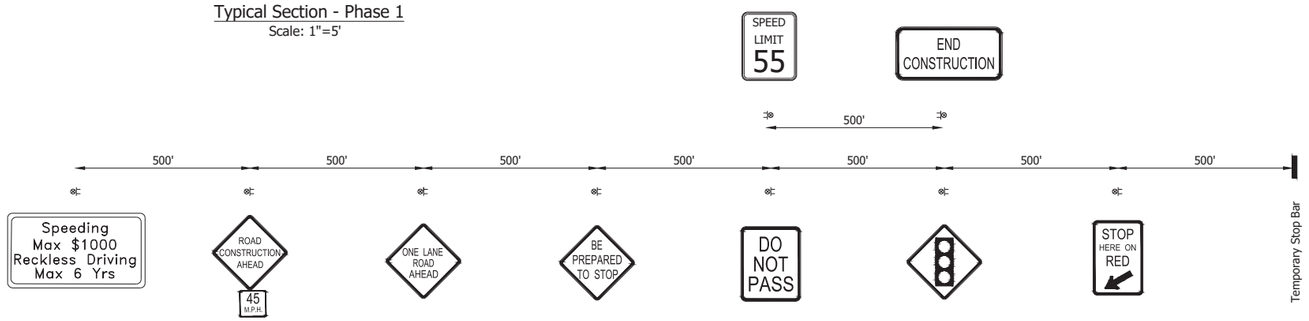
Typical Section - Phase 1
Scale: 1"=5'

LEGEND

- Temporary Traffic Barrier, Anchored, Type 2
- Work Zone
- Channelization Device
- Construction Sign
- Construction Warning Light, Type A
- Portable Signal
- Direction Of Traffic
- Line, Remove
- Barricade III-A

SIGNAL PHASING DIAGRAM





Advance Sign Detail
N.T.S.
Sign Detail shown for Northbound Direction. Signs reversed for Southbound Direction.

Construction Sign Schedule, Phase 1

Sign No.	Description	Size (IN.)	Type	Est. Qty
XW2-6	Penalty Sign	60 x 36	A	2
XW20-1	Road Construction Ahead	48 x 48	A	2
XW20-4	One Lane Road Ahead	48 x 48	A	2
XW13-1A	Advisory Speed (45)	24 x 24	B	2
W3-4	Be Prepared to Stop	48 x 48	A	2
W3-3	Signal Ahead	48 x 48	A	2
R4-1	Do Not Pass	24 x 30	B	2
R10-6	Stop Here on Red	24 x 36	B	2
XG20-2	End Construction	60 x 36	A	2
R2-1	Speed Limit (55)	30 x 36	B	2
		Total Phase 1, Construction Sign, Type A		12
		Total Phase 1, Construction Sign, Type B		8

Item	Units	Total
Temporary Pavement Marking, Removeable, 4 IN.	LFT	650
Temporary Transverse Pavement Marking, Removeable, 24 IN.	LFT	24
Maintaining Traffic	LS	1
Barricade, III-A	LFT	48
Temporary Traffic Barrier, Anchored, Type 2	LFT	410
Portable Signal	LS	1
Line, Remove	LFT	710

Posted design speed = 55 m.p.h.
Construction design speed = 45 m.p.h.
Construction clear zone = 16 feet.

NOTES:
1. One lane of traffic shall be maintained in each direction throughout the duration of the project. with the use of portable signals. See Str. No. 6 RSP 801-T-212 for portable signal timing.
2. Access to all drives must be maintained during all phases of construction.
3. All Maintenance of Traffic Devices, signs, and pavement markings shall conform to the latest edition of the Indiana MUTCD.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SCS DRAWN: SCS
CHECKED: AJK CHECKED: AJK

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 6 (CLV-027-038-57.06) - PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEET
ELECTRONIC	26 of 102
CONTRACT	PROJECT
R-43491	1902734

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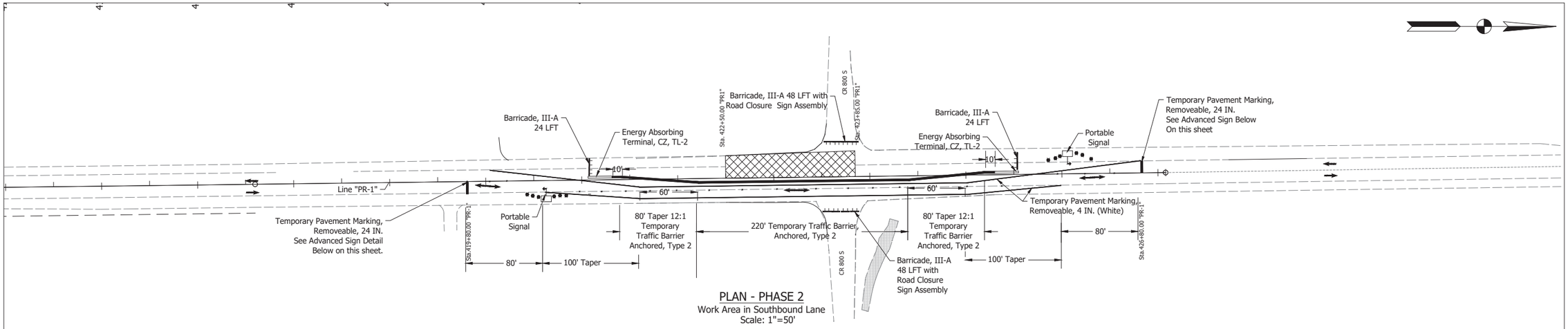
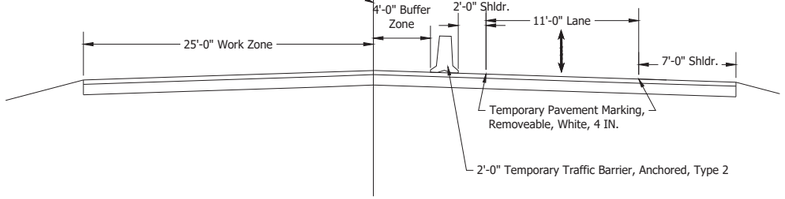


PLAN - PHASE 2
Work Area in Southbound Lane
Scale: 1"=50'

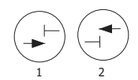


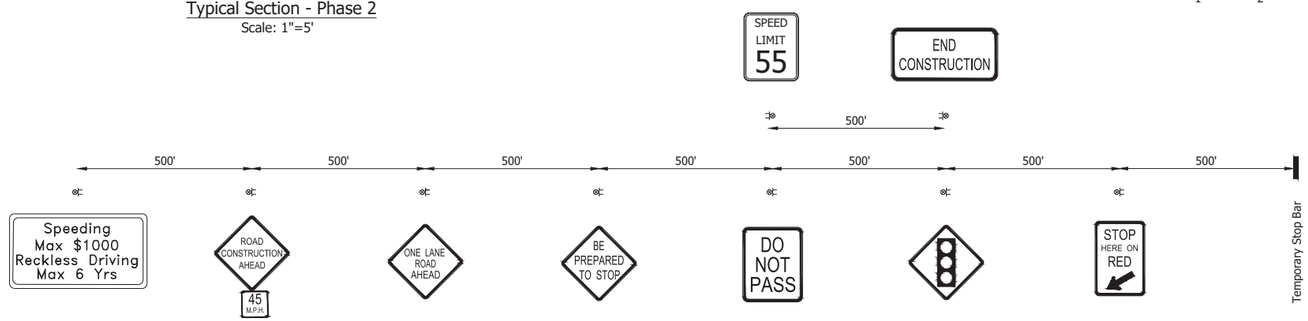
Typical Section - Phase 2
Scale: 1"=5'

LEGEND

- Temporary Traffic Barrier, Anchored, Type 2
- Work Zone
- Channelization Device
- Construction Sign
- Construction Warning Light, Type A
- Portable Signal
- Direction Of Traffic
- Line, Remove
- Barricade III-A

SIGNAL PHASING DIAGRAM





Advance Sign Detail
N.T.S.
Sign Detail shown for Northbound Direction. Signs reversed for Southbound Direction.

Construction Sign Schedule, Phase 2				
Sign No.	Description	Size (IN.)	Type	Est. Qty
XW2-6	Penalty Sign	60 x 36	A	2
XW20-1	Road Construction Ahead	48 x 48	A	2
XW20-4	One Lane Road Ahead	48 x 48	A	2
XW13-1A	Advisory Speed (45)	24 x 24	B	2
W3-4	Be Prepared to Stop	48 x 48	A	2
W3-3	Signal Ahead	48 x 48	A	2
R4-1	Do Not Pass	24 x 30	B	2
R10-6	Stop Here on Red	24 x 36	B	2
XG20-2	End Construction	60 x 36	A	2
R2-1	Speed Limit (55)	30 x 36	B	2
		Total Phase 2, Construction Sign, Type A		12
		Total Phase 2, Construction Sign, Type B		8

Item	Units	Total
Temporary Pavement Marking, Removeable, 4 IN.	LFT	940
Temporary Transverse Pavement Marking, Removeable, 24 IN.	LFT	24
Maintaining Traffic	LS	1
Barricade, III-A	LFT	144
Temporary Traffic Barrier, Anchored, Type 2	LFT	410
Portable Signal	LS	1
Line, Remove	LFT	405

Posted design speed = 55 m.p.h.
Construction design speed = 45 m.p.h.
Construction clear zone = 16 feet.

NOTES:
1. One lane of traffic shall be maintained in each direction throughout the duration of the project. with the use of portable signals. See Str. No. 6 RSP 801-T-212 for portable signal timing.
2. Access to all drives must be maintained during all phases of construction.
3. All Maintenance of Traffic Devices, signs, and pavement markings shall conform to the latest edition of the Indiana MUTCD.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SCS DRAWN: SCS

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 6 (CLV-027-038-57.06) - PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEET
ELECTRONIC	27 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 4:39pm User Name: BBritton
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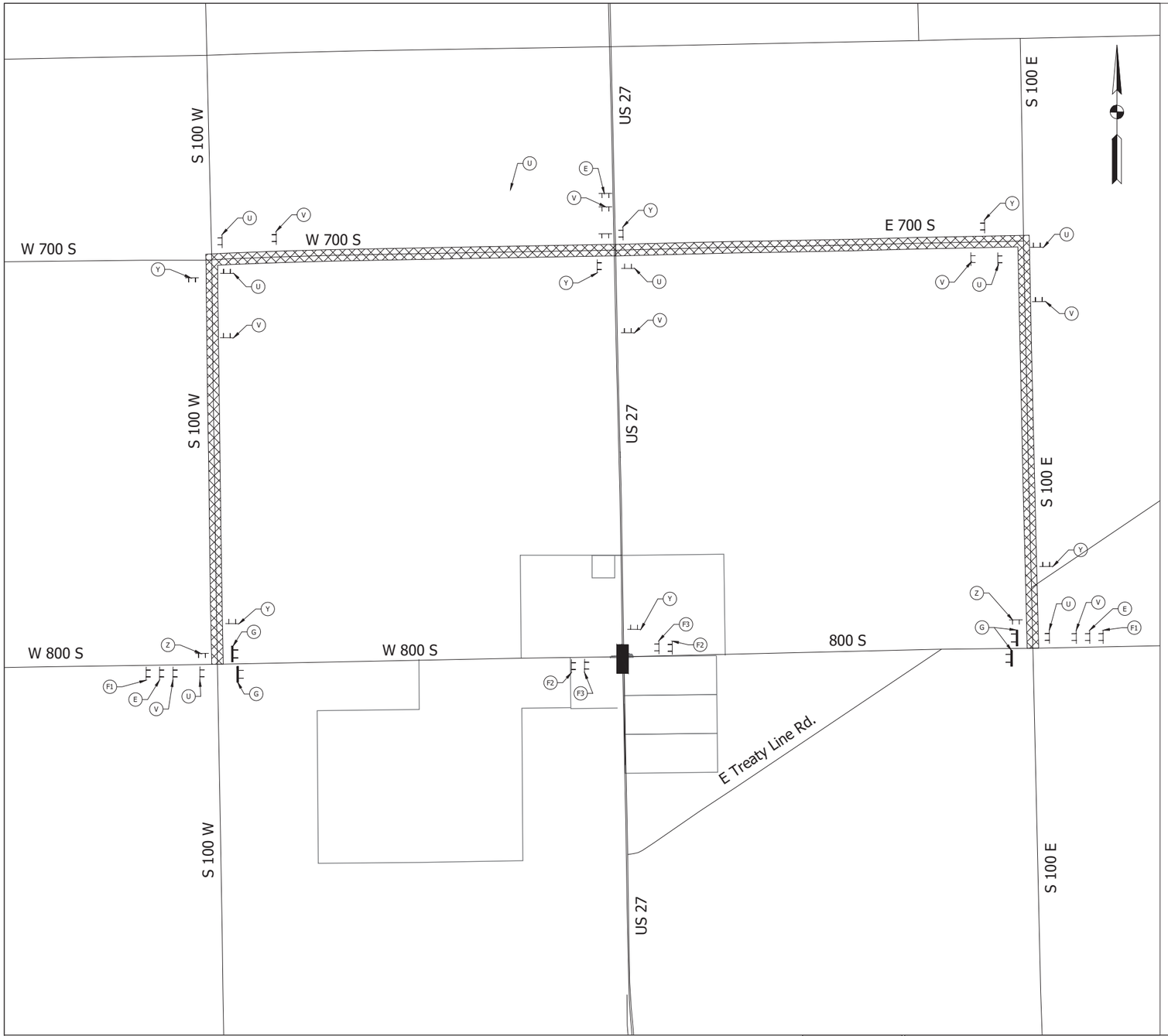
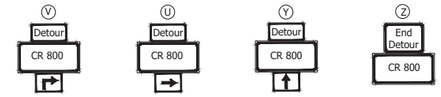


CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY
XM20-2	"DETOUR AHEAD" SIGN	48 x 48	A	2
XM20-3	"ROAD CLOSED" SIGN	48 x 48	A	6
			TOTAL TYPE "A" SIGNS	8

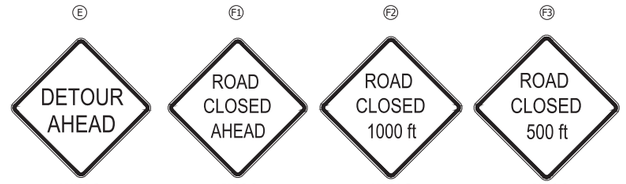
Detour Route Marker Assemblies: 25 Each
Road Closure Sign Assemblies: 2 Each
Type III-B Barricades: 48 Lft.

LEGEND



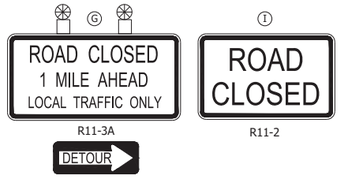
M4-8 M1-6 M5-1 (R OR L) | M4-8 M1-6 M6-1 (R OR L) | M4-8 M1-6 M6-3 | M4-8a M1-6

DETOUR ROUTE MARKER ASSEMBLIES



XW20-2 | XW20-3 | XW20-3 | XW20-3

CONSTRUCTION SIGN, TYPE A



R11-3A | R11-2

XM4-10 (R OR L)

ROAD CLOSURE SIGN ASSEMBLIES

CONSTRUCTION SIGN
BARRICADE, TYPE III-A
BARRICADE, TYPE III-B
CONSTRUCTION ZONE
DETOUR ROUTE

GENERAL NOTES

1. All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
2. See INDOT Std. Drwg. 801-TCDT-01 for sign spacing requirements and additional notes.
3. See INDOT Std. Drwg. 801-TCLG-01 for standard notes.
4. Type B construction warning lights shall be used with all signs located on barricades. Type A construction warning lights shall be used on all other construction signs.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SCS DRAWN: SCS
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 6 (CLV-027-038-57.06)
LOCAL DETOUR ROUTE

HORIZONTAL SCALE	BRIDGE FILE
1"=700'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	28 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:09pm User Name: BBritton
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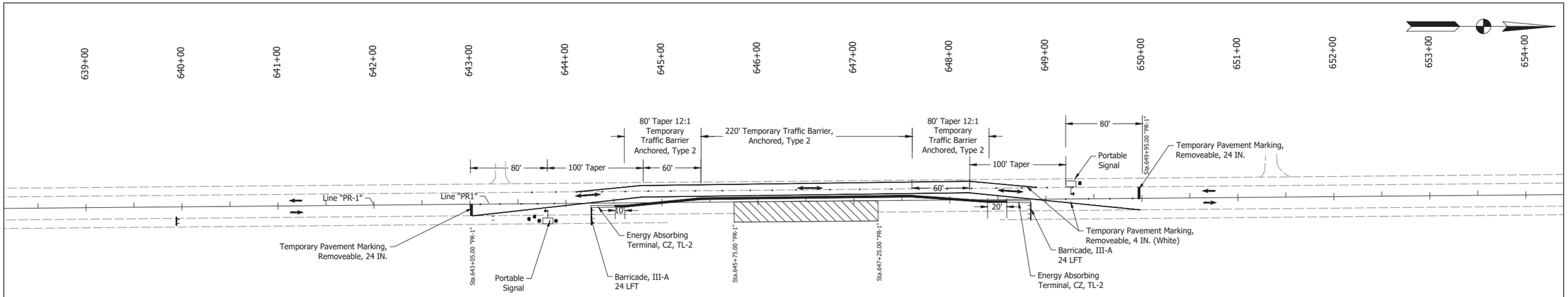
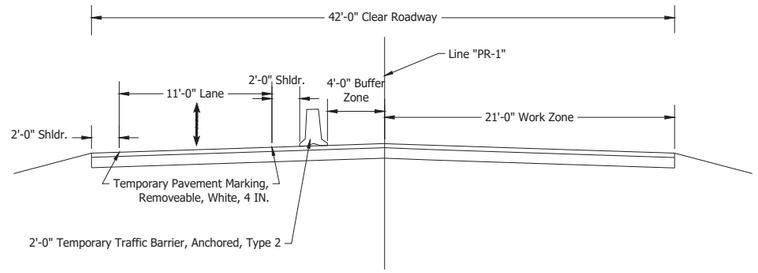


PLAN - PHASE 1

Work Area in Northbound Lane
Scale: 1"=50'



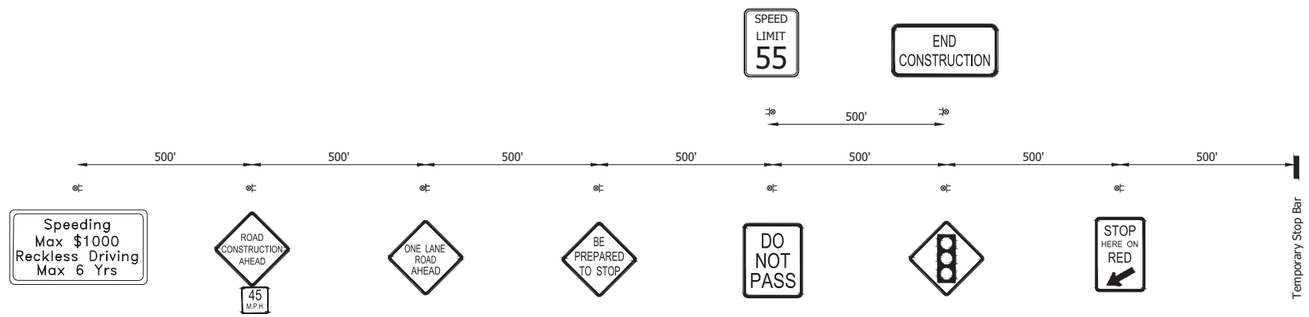
Typical Section - Phase 1

Scale: 1"=5'

LEGEND

- Temporary Traffic Barrier, Anchored, Type 2
- Work Zone
- Channelization Device
- TT Construction Sign
- Construction Warning Light, Type A
- Portable Signal
- Direction Of Traffic
- Line, Remove
- Barricade III-A

SIGNAL PHASING DIAGRAM



Advance Sign Detail
N.T.S.
Sign Detail shown for Northbound Direction. Signs reversed for Southbound Direction.

Construction Sign Schedule, Phase 1

Sign No.	Description	Size [IN.]	Type	Est. Qty
XW2-6	Penalty Sign	60 x 36	A	2
XW20-1	Road Construction Ahead	48 x 48	A	2
XW20-4	One Lane Road Ahead	48 x 48	A	2
XW13-1A	Advisory Speed (45)	24 x 24	B	2
W3-4	Be Prepared to Stop	48 x 48	A	2
W3-3	Signal Ahead	48 x 48	A	2
R4-1	Do Not Pass	24 x 30	B	2
R10-6	Stop Here on Red	24 x 36	B	2
XG20-2	End Construction	60 x 36	A	2
R2-1	Speed Limit (55)	30 x 36	B	2
	Total Phase 1, Construciton Sign, Type A			12
	Total Phase 1, Construction Sign, Type B			8

Item	Units	Total
Temporary Pavement Marking, Removeable, 4 IN.	LFT	1180
Temporary Transverse Pavement Marking, Removeable, 24 IN.	LFT	24
Maintaining Traffic	LS	1
Barricade, III-A	LFT	48
Temporary Traffic Barrier, Anchored, Type 2	LFT	410
Portable Signal	LS	1
Line, Remove	LFT	590

Posted design speed = 55 m.p.h.
Construction design speed = 45 m.p.h.
Construction clear zone = 16 feet.

NOTES:
1. One lane of traffic shall be maintained in each direction throughout the duration of the project. with the use of portable signals. See Str. No. 7 RSP 801-T-212 for portable signal timing.
2. Access to all drives must be maintained during all phases of construction.
3. All Maintenance of Traffic Devices, signs, and pavement markings shall conform to the latest edition of the Indiana MUTCD.

Date: Jul 20, 2022, 12:09pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRD-02\Departments\HYI\CAD\MOT\MOT - CLV-027-038-61.28 Phase 1.dwg

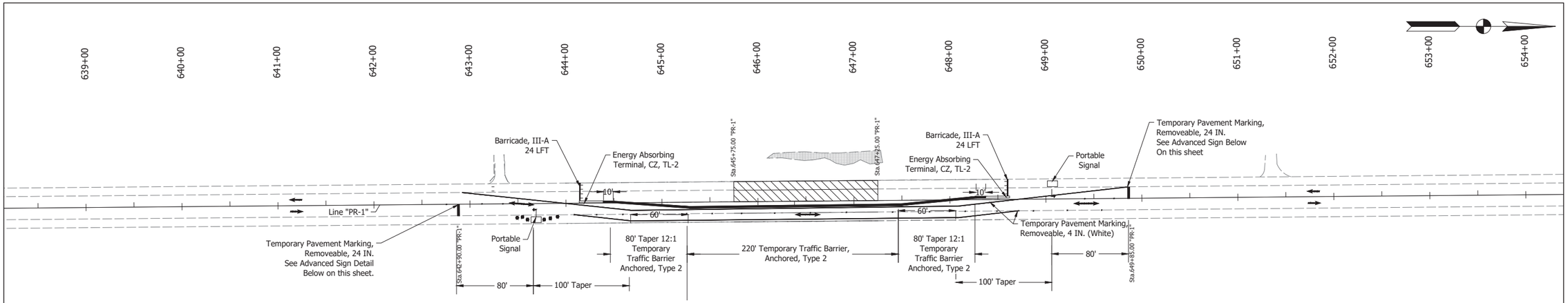
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SCS DRAWN: SCS
CHECKED: AJK CHECKED: AJK

INDIANA DEPARTMENT OF TRANSPORTATION

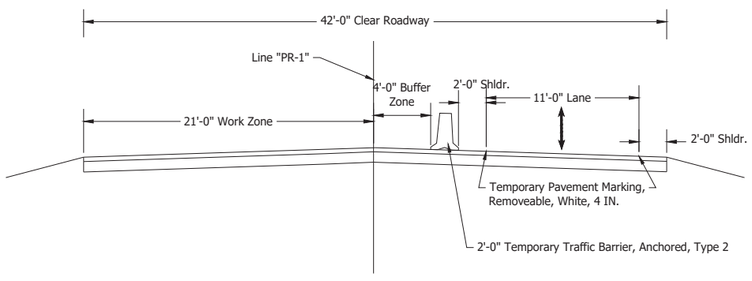
MAINTENANCE OF TRAFFIC
STR. NO. 7 (CLV-027-038-61.28) - PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEET
ELECTRONIC	29 of 102
CONTRACT	PROJECT
R-43491	1902734



PLAN - PHASE 2

Work Area in Southbound Lane
Scale: 1"=50'



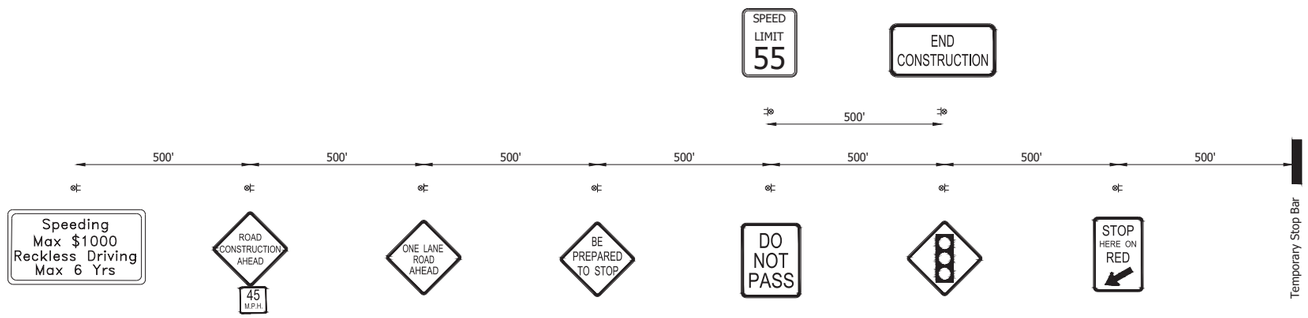
Typical Section - Phase 2

Scale: 1"=5'

LEGEND

- Temporary Traffic Barrier, Anchored, Type 2
- Work Zone
- Channelization Device
- TT Construction Sign
- Construction Warning Light, Type A
- Portable Signal
- Direction Of Traffic
- Line, Remove
- Barricade III-A

SIGNAL PHASING DIAGRAM



Advance Sign Detail
N.T.S.
Sign Detail shown for Northbound Direction. Signs reversed for Southbound Direction.

Construction Sign Schedule, Phase 2

Sign No.	Description	Size (in.)	Type	Est. Qty
XW2-6	Penalty Sign	60 x 36	A	2
XW20-1	Road Construction Ahead	48 x 48	A	2
XW20-4	One Lane Road Ahead	48 x 48	A	2
XW13-1A	Advisory Speed (45)	24 x 24	B	2
W3-4	Be Prepared to Stop	48 x 48	A	2
W3-3	Signal Ahead	48 x 48	A	2
R4-1	Do Not Pass	24 x 30	B	2
R10-6	Stop Here on Red	24 x 36	B	2
XG20-2	End Construction	60 x 36	A	2
R2-1	Speed Limit (55)	30 x 36	B	2
		Total Phase 1, Construction Sign, Type A		12
		Total Phase 1, Construction Sign, Type B		8

Item	Units	Total
Temporary Pavement Marking, Removeable, 4 IN.	LFT	2220
Temporary Transverse Pavement Marking, Removeable, 24 IN.	LFT	24
Maintaining Traffic	LS	1
Barricade, III-A	LFT	48
Temporary Traffic Barrier, Anchored, Type 2	LFT	410
Portable Signal	LS	1
Line, Remove	LFT	530

Posted design speed = 55 m.p.h.
Construction design speed = 45 m.p.h.
Construction clear zone = 16 feet.

NOTES:
1. One lane of traffic shall be maintained in each direction throughout the duration of the project. with the use of portable signals. See Str. No. 7 RSP 801-T-212 for portable signal timing.
2. Access to all drives must be maintained during all phases of construction.
3. All Maintenance of Traffic Devices, signs, and pavement markings shall conform to the latest edition of the Indiana MUTCD.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

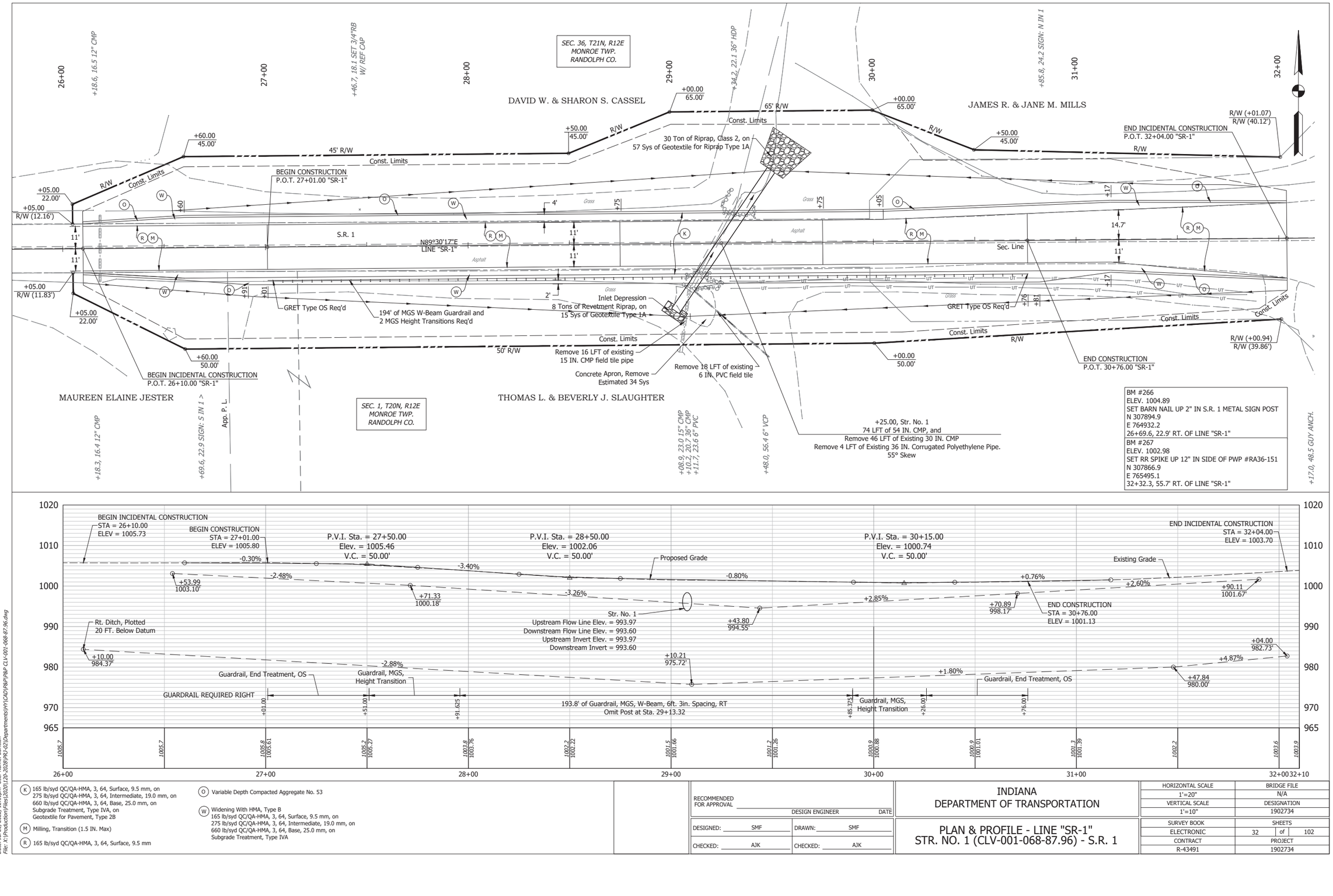
DESIGNED: SCS DRAWN: SCS
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STR. NO. 7 (CLV-027-038-61.28) - PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1902734
SURVEY BOOK	SHEET
ELECTRONIC	30 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:09pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-021\Departments\HYICAD\MOT\MOT - CLV-027-038-61.28 Phase 2.dwg



(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on
275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on
660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on
Subgrade Treatment, Type IVA, on
Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

(W) Widening With HMA, Type B
165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on
275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on
660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on
Subgrade Treatment, Type IVA

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: SMF DRAWN: SMF

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE - LINE "SR-1"
STR. NO. 1 (CLV-001-068-87.96) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=20"	N/A
VERTICAL SCALE	DESIGNATION
1"=10"	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	32 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:10pm User Name: BBritton
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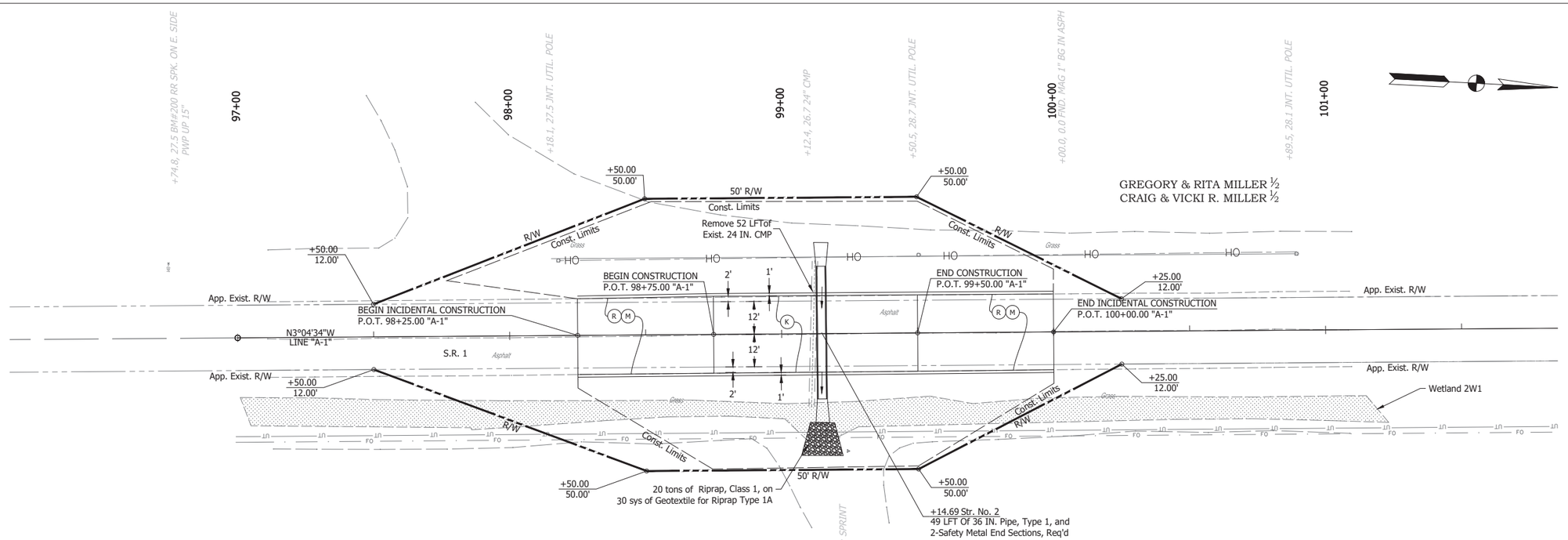

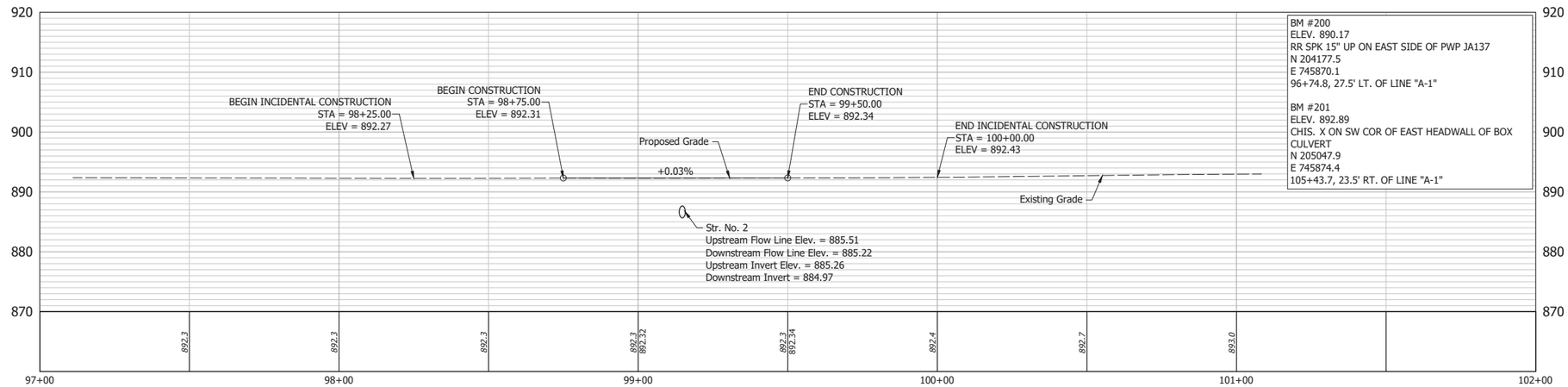

(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "A-1"
STR. NO. 2 (CLV-001-038-110.71) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	33 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:10pm User Name: BBritton
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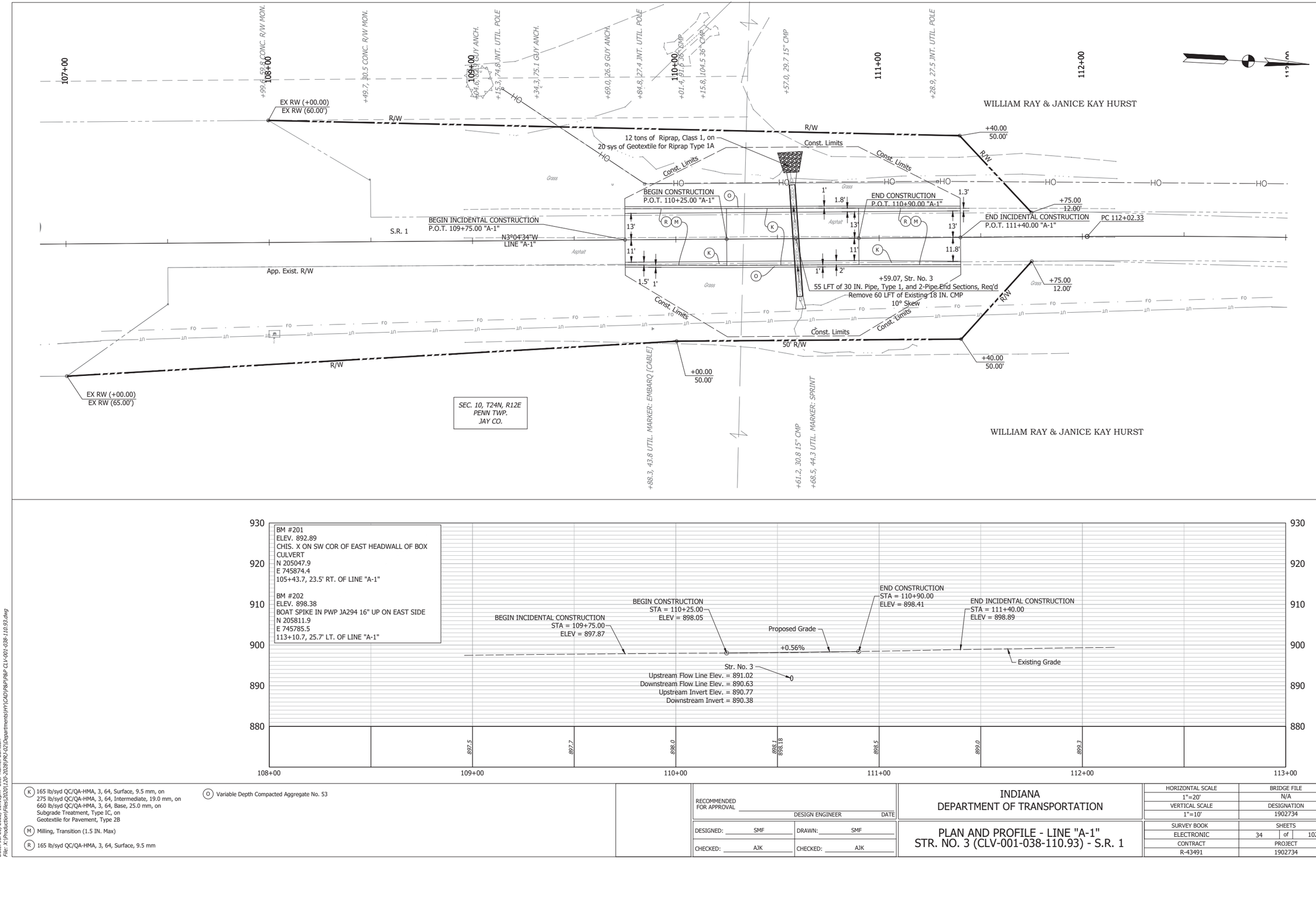

(K) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 64, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF
CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "A-1"
STR. NO. 3 (CLV-001-038-110.93) - S.R. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	34 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:10pm User Name: BBritton
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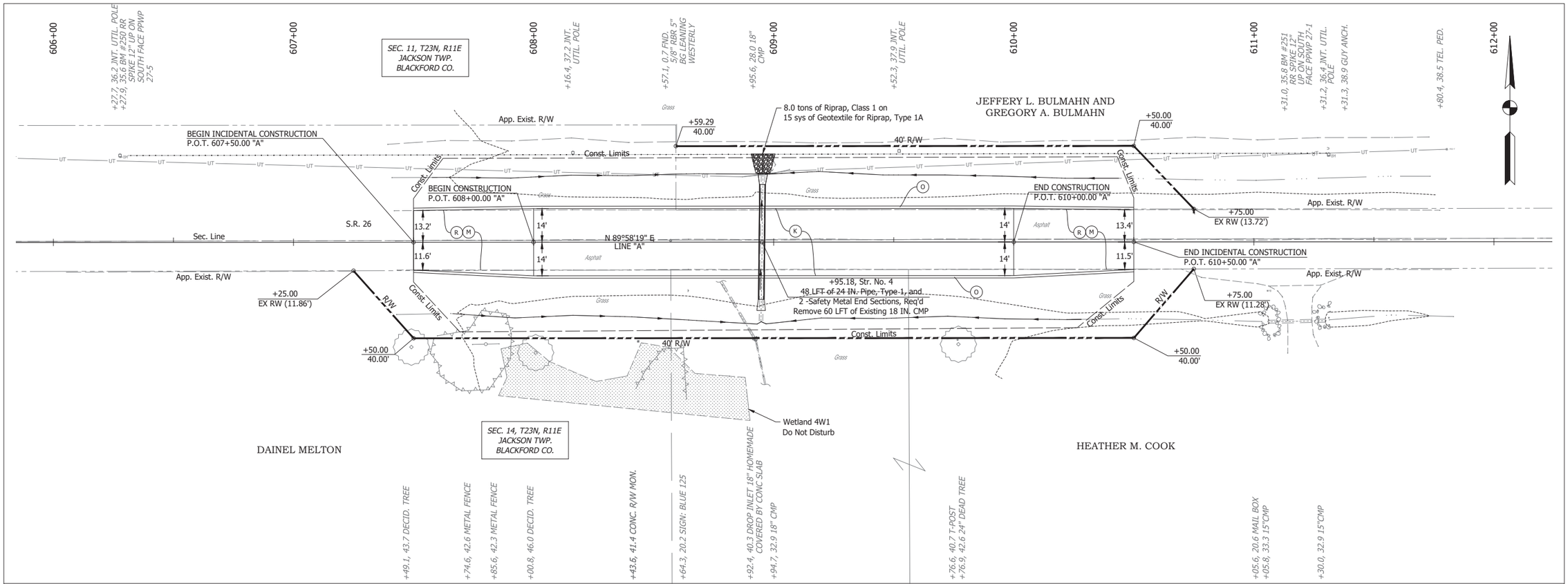

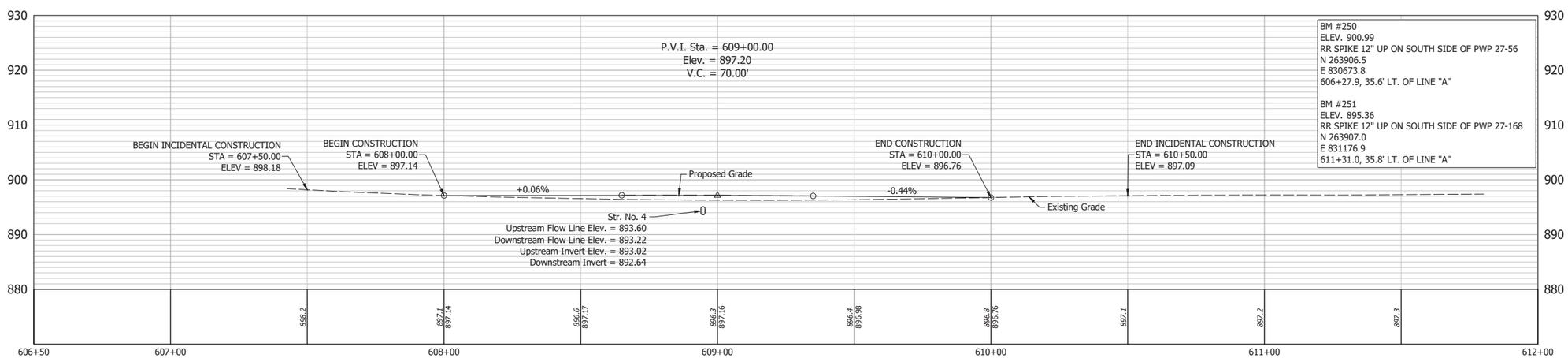

(K) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 660 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: SMF DRAWN: SMF

CHECKED: AJK CHECKED: AJK

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE - LINE "A"
STR. NO. 4 (CLV-026-005-125.01) - S.R 26

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	35 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:11pm User Name: BBritton
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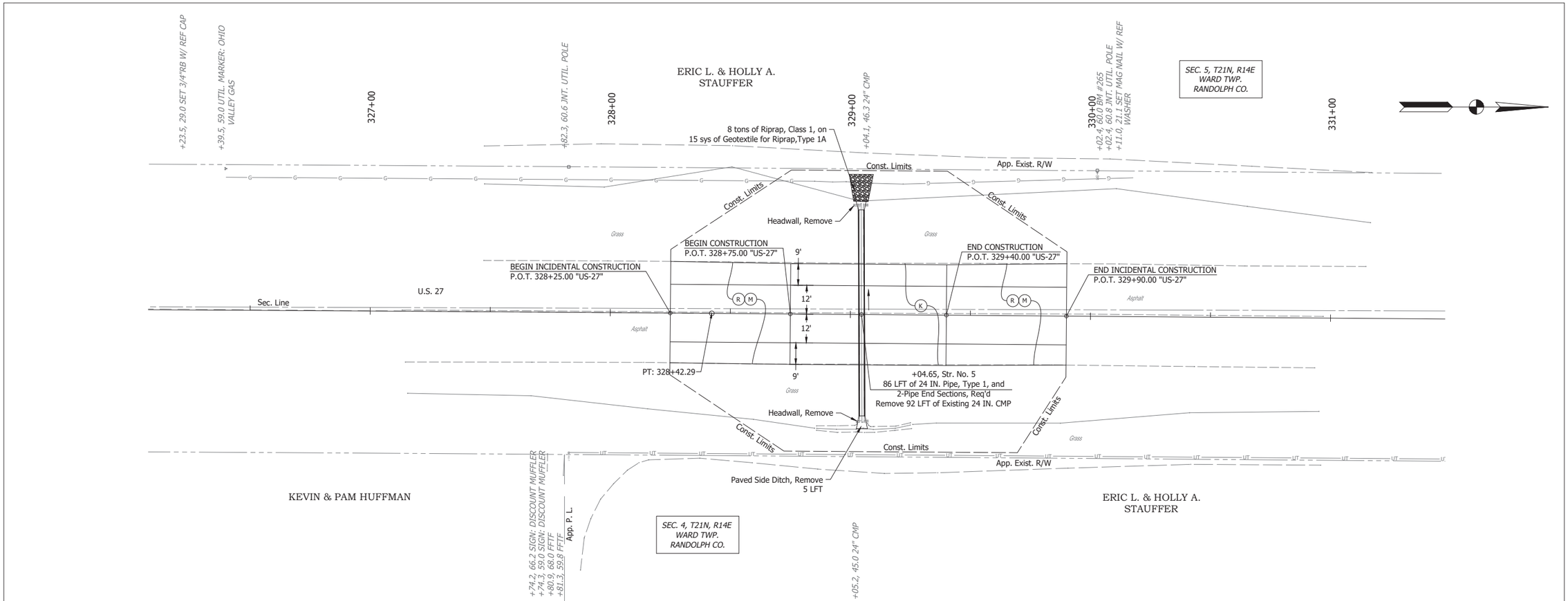
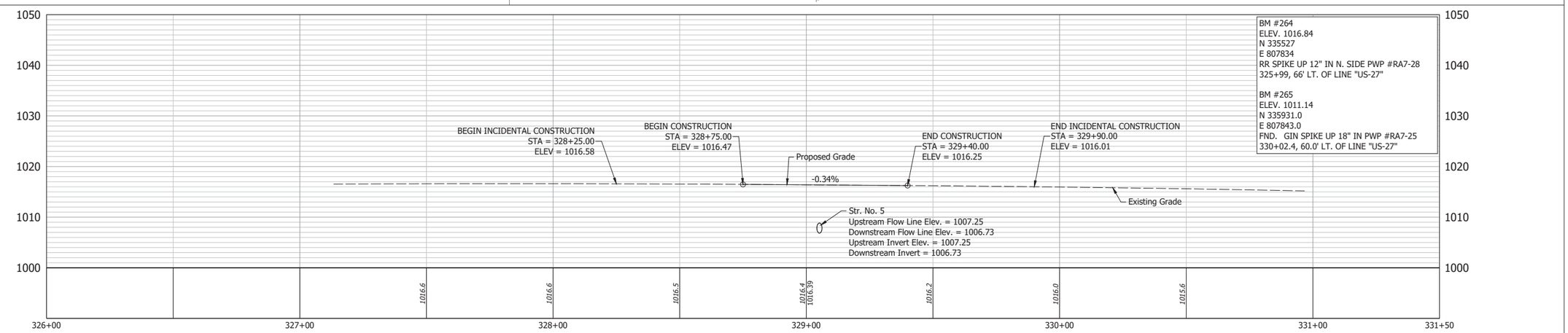




(K) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 880 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF

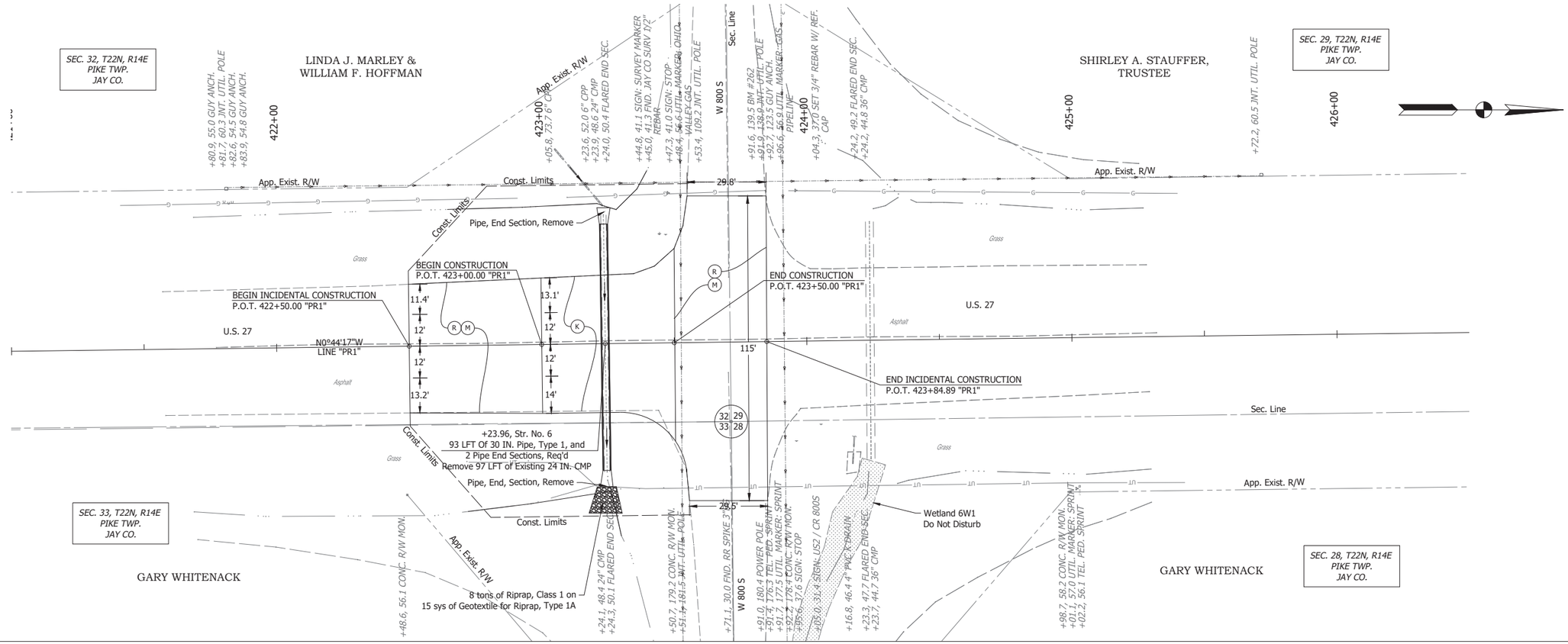
CHECKED: AJK CHECKED: AJK

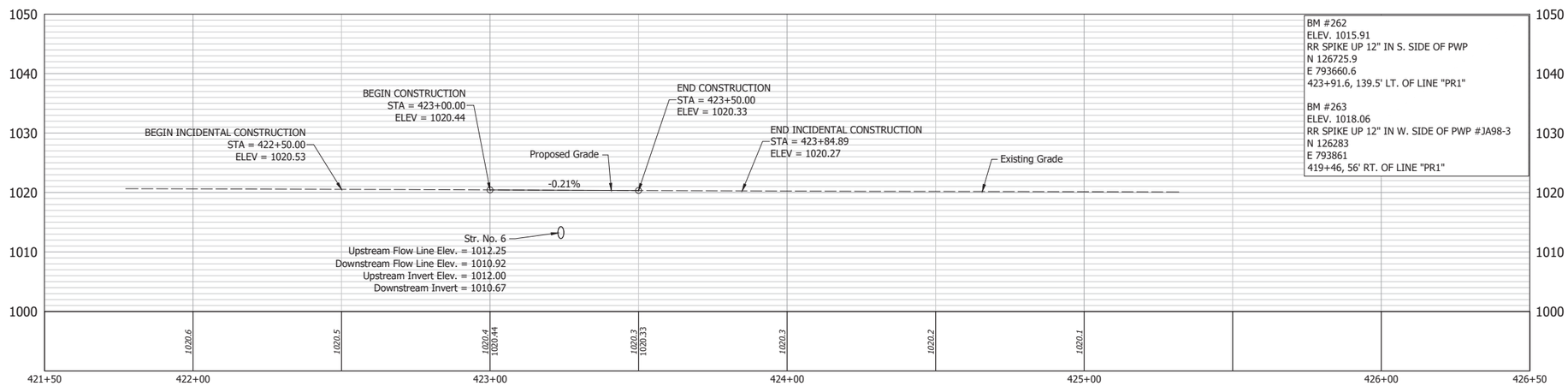
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "US 27"
STR. NO. 5 (CLV-027-068-55.25) - U.S. 27

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	36 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:11pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-021\Departments\HY\CAD\PAP\PAP CLV-027-068-55.25.dwg





(K) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 880 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on Subgrade Treatment, Type IC, on Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "PR1"
STR. NO. 6 (CLV-027-038-57.06) - U.S. 27

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	37 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:11pm User Name: BBinton
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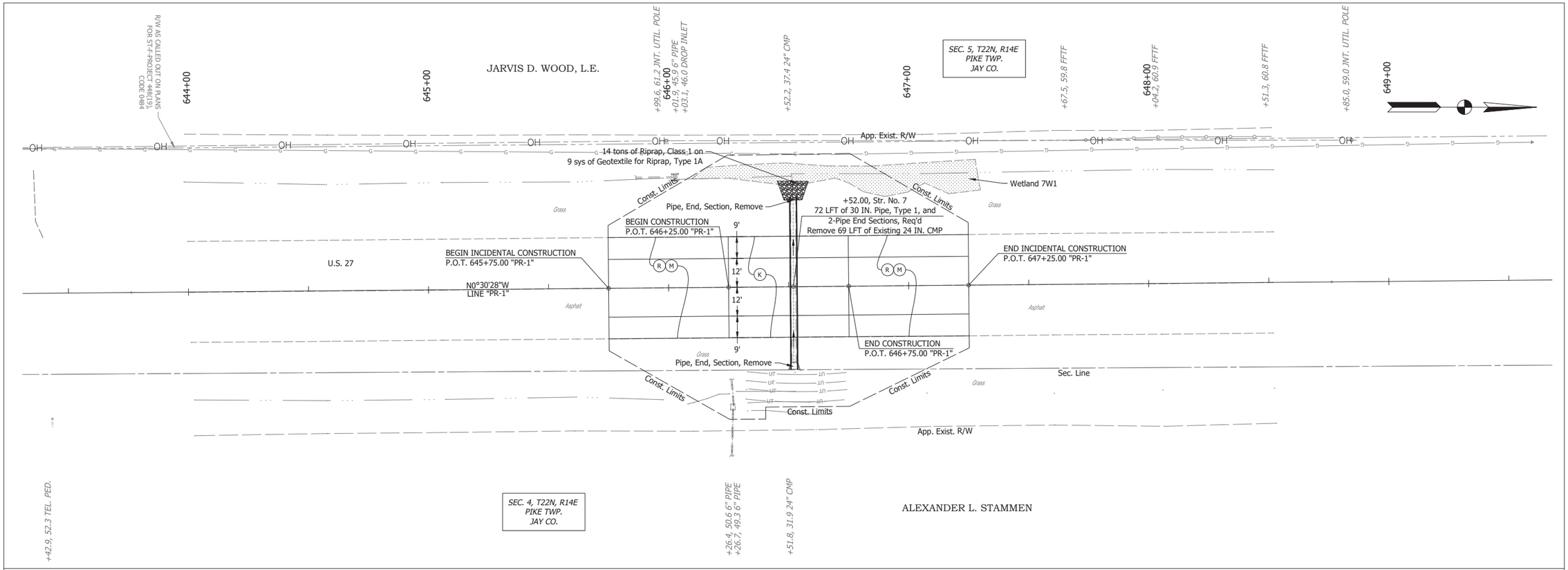
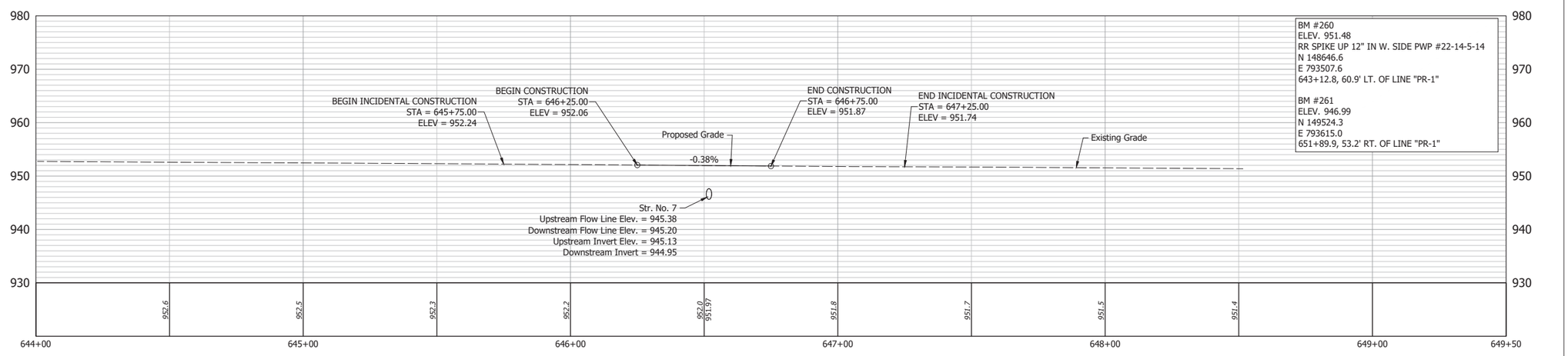




(K) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on
275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on
880 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm, on
Subgrade Treatment, Type IC, on
Geotextile for Pavement, Type 2B

(M) Milling, Transition (1.5 IN. Max)

(R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

(O) Variable Depth Compacted Aggregate No. 53

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: SMF DRAWN: SMF

CHECKED: AJK CHECKED: AJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "PR-1"
STR. NO. 7 (CLV-027-038-61.28) - U.S. 27

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	1902734
SURVEY BOOK	SHEETS
ELECTRONIC	38 of 102
CONTRACT	PROJECT
R-43491	1902734

Date: Jul 20, 2022, 12:12pm User Name: BBritton
File: X:\Production\Files\2020\120-2028\PRJ-02\Departments\HYI\CAD\R&P\R&P CLV-027-038-61.28.dwg

Categorical Exclusion

Appendix C

Early Coordination

INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (855) 463-6848
(855) INDOT4U

Eric Holcomb, Governor
Mike Smith, Commissioner

March 24, 2022

{See Attached List}

Re: Early Coordination Letter, Des. No.: 1902734, Small Structures Project, State Project on State Road (SR) 26, SR 1, and US 27 in Blackford, Jay, and Randolph Counties, Indiana

To whom it may concern:

The Indiana Department of Transportation (INDOT), Greenfield District, with funding from the Federal Highway Administration (FHWA), intends to proceed with the aforementioned small structures project along SR 26, SR 1, and US 27 in Blackford, Jay, and Randolph Counties, Indiana (Des. No. 1902734).

This letter is part of the early coordination phase of the environmental review. At this time, we are requesting comments from your area of expertise regarding any possible environmental effects (social and natural) associated with this project. **Please use the above Des. No. and project description in your reply.** Your comments will be incorporated into the formal environmental study. Your cooperation in this endeavor is appreciated.

Project Location and Existing Conditions

Structure	Culvert Number
1	CLV-001-068-87.96
2	CLV-001-038-110.71
3	CLV-001-038-110.93
4	CLV-026-005-125.01
5	CLV-027-068-55.25
6	CLV-027-038-57.06
7	CLV-027-038-61.28

Structure No. 1 - CLV-001-068-87.96

The subject culvert is located in Randolph County along SR 1, approximately 1.93 miles north of SR 32. Specifically, the culvert is located in Sections 1, and 36, Townships 20 and 21 N, Range 12 E in Monroe Township, as depicted on the Farmland USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and wooded areas.

SR 1 is functionally classified as rural, major collector on level terrain. The typical cross section of SR 1 at this location consists of two 11-foot wide travel lanes with a minimum 2-foot shoulders present. The posted speed limit is 55 miles per hour (mph). The existing culvert is a 46-foot long, 30-inch diameter corrugated metal pipe (CMP), joined by 4 feet of 36-inch diameter corrugated polyethylene pipe.

Structure No. 2 - CLV-001-038-110.71

The subject culvert is located in Jay County along SR 1, approximately 1.09 miles south of SR 18. Specifically, the culvert is located in Section 15, Township 24 N, Range 12 E in Penn Township, as depicted on the Petroleum USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and a woodlot to the west.

SR 1 is functionally classified as rural, major collector on level terrain. The typical cross section of SR 1 at this location consists of two 12-foot wide travel lanes with 2-foot shoulders present. The posted speed limit is 55 mph. The existing culvert is a 52-foot long, 24-inch diameter CMP.

Structure No. 3 -CLV-001-038-110.93

The subject culvert is located in Jay County along SR 1, approximately 0.87 mile south of SR 18. Specifically, the culvert is located in Section 10, Township 23 N, Range 12 E in Penn Township, as depicted on the Petroleum USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and wooded areas.

SR 1 is functionally classified as rural, major collector on level terrain. The typical cross section of SR 1 at this location consists of two 12-foot wide travel lanes with 2-foot shoulders present. The posted speed limit is 55 mph. The existing culvert is a 60-foot long, 18-inch diameter CMP.

Structure No. 4 – CLV-026-005-125.01

The subject culvert is located in Blackford County along SR 26, approximately 0.26 mile west of CR 700 East in Hartford City. Specifically, the culvert is located in Sections 11 and 14, Township 23 N, Range 11 E in Jackson Township, as depicted on the Pennville USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and wooded areas.

SR 26 is functionally classified as rural, minor arterial on level terrain. The typical cross section of SR 26 at this location consists of two 12-foot wide travel lanes with 2-foot shoulders present. The posted speed limit is 55 mph. The existing culvert is a 61-foot long, 18-inch diameter CMP.

Structure No. 5 – CLV-027-068-55.25

The subject culvert is located in Randolph County along US 27, approximately 1.20 miles north of SR 28. Specifically, the culvert is located in Sections 4 and 5, Township 21 N, Range 14 E in Ward Township, as depicted on the Deerfield USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and wooded areas.

US 27 is functionally classified as rural, principal arterial on level terrain. The typical cross section of US 27 at this location consists of two 12-foot wide travel lanes with 9-foot wide shoulders present. The posted speed limit is 55 mph. The existing culvert is a 90-foot long, 24-inch diameter CMP.

Structure No. 6 – CLV-027-038-57.06

The subject culvert is located in Jay County along US 27, approximately 3.11 miles north of SR 28. Specifically, the culvert is located in Sections 28, 29, 32, and 33, Township 22 N, Range 14 E in Pike Township, as depicted on the Deerfield USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and wooded areas.

US 27 is functionally classified as rural, principal arterial on level terrain. The typical cross section of US 27 at this location consists of two 12-foot wide travel lanes with 13-14-foot wide shoulders present. The posted speed limit is 55 mph. The existing culvert is a 100-foot long, 24-inch diameter CMP.

Structure No. 7 – CLV-027-038-61.28

The subject culvert is located in Jay County along US 27, approximately 3.28 miles south of SR26. Specifically, the culvert is located in Sections 4 and 5, Township 22 N, Range 14 E in Pike Township, as depicted on the Portland USGS 7.5 Minute Topographic Map. Adjacent land use is rural and consists of agriculture, residences, and wooded areas.

US 27 is functionally classified as rural, principal arterial on level terrain. The typical cross section of US 27 at this location consists of two 12-foot wide travel lanes with 9-foot wide shoulders present. The posted speed limit is 55 mph. The existing culvert is a 70-foot long, 24-inch diameter CMP.

Purpose and Need

The need for the project stems from the deteriorated condition of the culverts. According to the INDOT Scoping Application Reports for these structures, the condition rating for each culvert is 3, which represent "poor" condition. Condition ratings range from 0, which represents a failed structure, to 9, which represents a new structure with no deficiencies. The purpose of the project is to increase the rating of each culvert to a "good" rating of at least 7 out of 9, increasing the life of the culverts an additional 50 years.

Proposed Project

The proposed project involves replacement of each culvert. Exact dimensions are unknown at this time. Pavement will be restored at the location of each replacement. The total length of each culvert replacement varies from 60-110 feet.

The maintenance of traffic (MOT) plan will include a full closure with detour route for the SR 1 and SR 26 culverts. The detour for the SR 1 culverts, Structure 2 and Structure 3, will involve SR 18 to US 27 to SR 26. The detour for the remaining SR 1 culvert (Structure 1) will involve SR 32 to US 27 to SR 28. The detour for the SR 26 pipe (Structure 4) will likely involve SR 3 to SR 18 to SR 1. Lane closures are currently considered as MOT for the US 27 pipes (Structures 5, 6, and 7). US 27 traffic will be maintained during replacement of the structures.

MOT is expected to take place during the construction season, typically March through November, of 2023. Local access will be maintained to adjacent property owners. The MOT will be implemented per the *Indiana Design Manual* guidelines. Construction is anticipated to begin in 2023.

Right-of-Way (ROW)

This project is anticipated to require new permanent ROW from the SR 1 culverts (0.71 acre for Structure 1, 0.23 acre for Structure 2, and 0.26 acre for Structure 3). Work will occur within the existing ROW of the SR 26 and US 27 culverts.

Environmental Resources

A Red Flag Investigation (RFI) was performed for a 0.5-mile radius around the project areas. Several "Red Flags" were identified within the 0.5-mile search radius; however, not all will impact the proposed project. Several waterways, wetlands, 303(d) listed streams, one floodplain, pipelines, and petroleum wells were identified within the 0.5-mile radius of the various structures, though not adjacent. Of particular note was one pipeline within the project areas of Structure 5 and Structure 6, as well as two features adjacent to Structure 6: one cemetery and one Leaking Underground Storage Tank (LUST). These features will be examined during project development.

In regard to Section 106, coordination with INDOT Greenfield District and INDOT Cultural Resource Office (CRO) will occur. This project will be evaluated under the *Minor Projects Programmatic Agreement (MPPA) between INDOT, FHWA, State Historic Preservation Officer (SHPO), and the Advisory Council on Historic Preservation*.

Range-wide Informal Programmatic Consultation

Blackford, Jay, and Randolph Counties are within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*). The U.S. Fish and Wildlife Service (USFWS)

Range-wide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat (NLEB) will be completed for this project.

Early Coordination

This letter is part of the early coordination review process. You are asked to review this information and provide any comments you may have relative to anticipated impacts of the project on areas in which you have jurisdiction or special expertise. We will incorporate your comments into a study of the project's environmental impacts. To facilitate the development of this project, you are asked to reply within **30 calendar days** of receipt of this letter. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request.

If you have any questions regarding this project, please feel free to contact me at (317) 910-9705 or at RWinebrinner@lochgroup.com or the INDOT Project Manager, Sacha Teague, at 765-438-1168 or at steague1@indot.in.gov.

Thank you in advance for your input.

Best regards,

Robert B. Winebrinner
Environmental Project Manager
Lochmueller Group, Inc.

Attachments:

- General Location Maps
- USGS Topographic Maps
- Aerial Photo Location Maps and Project Photographs

Distribution List:

- Federal Highway Administration - Indiana Division
- Natural Resources Conservation Service
- Chicago Regional Office, US Department of Housing and Urban Development
- Department of the Army, Corps of Engineers Louisville District
- INDOT Greenfield District Office
- Indiana Dept. of Natural Resources, Division of Fish and Wildlife
- INDOT Environmental Services
- Indiana Geological and Water Survey
- Jay County Highway Department
- Jay County Engineer
- Jay County Surveyor's Office
- Jay County Board of Commissioners
- Jay County Council
- Jay County Emergency Medical Services
- Jay County Emergency Management Agency
- Jay County Sheriff Department
- Jay County Schools Transportation Department
- Penn Township Trustee

- Pike Township Trustee
- Pennville Fire Department
- Salamonia Fire Department
- Portland Fire Department
- Randolph County Highway Department
- Randolph County Surveyor's Office
- Randolph County Drainage Board
- Randolph County Board of Commissioners
- Randolph County Council
- Randolph County Emergency Medical Services
- Randolph County Emergency Management Agency
- Randolph County Sheriff Department
- Randolph Central Schools Transportation Department
- Monroe Central Schools Transportation Department
- Monroe Township Trustee
- Ward Township Trustee
- Ridgeville Police Department
- Ridgeville Fire Department
- Farmland Police Department
- Farmland Fire Department
- Blackford County Highway Department
- Blackford County Surveyor's Office
- Blackford County Drainage Board
- Blackford County Board of Commissioners
- Blackford County Council
- Blackford County Emergency Management Agency
- Blackford County Sheriff Department
- Blackford County Schools Transportation Department
- Hartford City Fire Department
- Hartford City Police Department
- Dunkirk Volunteer Fire Department

United States Department of Agriculture

Farm Production and Conservation

Natural Resources Conservation Service

Indiana State Office
6013 Lakeside Boulevard
Indianapolis, Indiana 46278
317-295-5800

March 30, 2022

Robert Winehouse
Lochmueller Group
3502 Woodview Trace, Suite 150
Indianapolis, Indiana 46268

Dear Mr. Winehouse:

The proposed project to make small structure improvements on State Road 1, State Road 26, and United States 27 in Blackford, Jay, and Randolph Counties, Indiana, (Des. No. 1902734) as referred to in your letter received March 24, 2022, will cause a conversion of prime farmland.

The attached packet of information is for your use completing Parts VI and VII of the AD-1006. After completion, the federal funding agency needs to forward one copy to NRCS for our records.

If you need additional information, please contact John Allen at 317-295-5859 or john.allen@usda.gov.

Sincerely,

JOHN ALLEN Digitally signed by JOHN ALLEN
Date: 2022.03.30 13:35:47 -04'00'

JOHN ALLEN
State Soil Scientist

Enclosures

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 03/24/2022
Name of Project DES1902734_SmStructure_#2 and #3	Federal Agency Involved FHWA
Proposed Land Use Transportation	County and State Jay County, Indiana
PART II *(To be completed by NRCS)*	Date Request Received By NRCS 3/24/22 / Person Completing Form: JRA

Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☑	NO ☐	Acres Irrigated / Average Farm Size: 270 ac
Major Crop(s): Corn	Farmable Land In Govt. Jurisdiction Acres: 242136 % 99		Amount of Farmland As Defined in FPPA Acres: 22607 % 92
Name of Land Evaluation System Used: LESA	Name of State or Local Site Assessment System		Date Land Evaluation Returned by NRCS: 3/30/22

PART III *(To be completed by Federal Agency)*	Alternative Site Rating Site 2	Site 3	Site C	Site D
A. Total Acres To Be Converted Directly	0.327	0.712		
B. Total Acres To Be Converted Indirectly	0.000	0.000		
C. Total Acres In Site	0.327	0.712		
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0.23	0.26		
B. Total Acres Statewide Important or Local Important Farmland	0.00	0.00		
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	<0.001	<0.001		
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	94	94		
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	76	76		

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)	5	5		
2. Perimeter In Non-urban Use	(10)	9	9		
3. Percent Of Site Being Farmed	(20)	18	18		
4. Protection Provided By State and Local Government	(20)	0	0		
5. Distance From Urban Built-up Area	(15)	15	15		
6. Distance To Urban Support Services	(15)	10	10		
7. Size Of Present Farm Unit Compared To Average	(10)	0	0		
8. Creation Of Non-farmable Farmland	(10)	0	0		
9. Availability Of Farm Support Services	(5)	3	3		
10. On-Farm Investments	(20)	10	10		
11. Effects Of Conversion On Farm Support Services	(10)	0	0		
12. Compatibility With Existing Agricultural Use	(10)	0	0		
TOTAL SITE ASSESSMENT POINTS	160	70	70	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	76	76	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	70	70	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	146	146	0	0

Site Selected: 2 and 3	Date Of Selection 04/30/2022	Was A Local Site Assessment Used? YES ☐ NO ☑

Reason For Selection:

Replacement of these culverts will ensure continued drainage for surrounding agricultural row crop production and provide a positive impact on the surrounding farmland.

Name of Federal agency representative completing this form: Robert B. Winebrinner	Date: 03/30/22

(See Instructions on reverse side) **Form AD-1006 (03-02)**

THIS IS NOT A PERMIT

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Early Coordination/Environmental Assessment

DNR #: ER-24602 **Request Received:** March 24, 2022

Requestor:
Lochmueller Group Inc
Robert Winebrinner
3502 Woodview Trace, Suite 150
Indianapolis, IN 46268

Project: SR 26, SR 1 and US 27 small structure replacements at 7 locations; Des #1902734

County/Site info: Blackford - Jay - Randolph

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment: This proposal may require the formal approval of our agency pursuant to the Flood Control Act (IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile, unless it qualifies for a bridge exemption (see enclosure). Please include a copy of this letter with the permit application, if required.

Natural Heritage Database: The Natural Heritage Program's data have been checked.
To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

Fish & Wildlife Comments: Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project areas:

1) Crossing Structures & Wildlife Passage:
Maintaining or improving wildlife movement under roads is a priority concern for the Division of Fish & Wildlife (DFW) for the ecological health of wildlife populations in terms of movement and dispersal, habitat connectivity, and to avoid unnecessary wildlife mortality on roads. Facilitating wildlife passage ability under roads means less wildlife crossing traffic lanes and consequently reduced driving hazards. We encourage improving fish and wildlife passage conditions, when possible.

DFW has outlined different requirements for different types of crossing structure impacts. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. If white-tailed deer passage is not possible with the existing structure, deer passage still needs to be considered in the design and at minimum the bank lines must be restored within structures to allow for smaller wildlife passage above the ordinary high water mark. All wildlife passage designs must include a smooth level pathway a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for rehabilitated/modified structures is encouraged whenever possible to improve wildlife/vehicle safety.

Attachments: A - Bridge Exemption Criteria

There are a number of techniques and materials for incorporating wildlife passage into the design of a crossing structure. Coordination with a Regional Environmental Biologist to address wildlife passage issues before submitting a permit application (if required) is encouraged to avoid delays in the permitting process. The following links are good resources to consider in the design of stream crossing structures to maintain fish and wildlife passage:
http://www.fs.fed.us/wildlifecrossings/library/,
https://roadecology.ucdavis.edu/files/content/projects/DOT-FHWA_Wildlife_Crossing_Structures_Handbook.pdf, https://www.fs.fed.us/biology/nsaec/fishxing/aop_pdfs.html,
https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf.

When designing a replacement structure, bridges are recommended over culverts, and three-sided culverts are recommended over box or pipe culverts. Multiple culverts or culverts with multiple openings are not recommended. These types of structures are often problematic for fish and wildlife passage as they tend to accumulate debris and become blocked. If box and pipe culverts must be used, the culvert bottoms should be sumped a minimum of 6" (or 20% of the culvert height or diameter, whichever is greater up to a maximum of 2') below the stream bed elevation. Sumping is not required for bridges or three-sided culverts. Crossings must span the entire channel width (a minimum of 1.2 times the ordinary high water mark width). Crossings must maintain the natural stream substrate within the structure (natural stream substrate must be replaced in sumped box and pipe culverts up to the existing flowline). Scour protection at the inlet and outlet must not extend above the existing flowline elevation to maintain aquatic organism passage. Stream depth, channel width and water velocities in the crossing structure during low-flow conditions must approximate those in the natural stream channel.

2) Riparian Habitat:
We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation Guidelines (and plant lists) can be found online at:
http://iac.iga.in.gov/iac/20200527-IR-312200284NRA.xml.pdf.

Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, 1 inch to 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). Impacts under 0.10 acre in an urban area may still involve the replacement of large diameter trees but typically do not require any additional mitigation or additional plantings beyond seeding and stabilizing disturbed areas. There are exceptions for high quality habitat sites however.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:
1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in regularly mowed areas only.
2. Minimize and contain within the project limits inchannel disturbance and the clearing

Attachments: A - Bridge Exemption Criteria

of trees and brush.
3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
4. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
5. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
6. Do not use broken concrete as riprap.
7. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
8. Minimize the movement of resuspended bottom sediment from the immediate project area.
9. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
10. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
11. Do not excavate or place fill in any riparian wetland.

Contact Staff: Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife
Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

Christie L. Stanifer **Date:** April 21, 2022

Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife

Attachments: A - Bridge Exemption Criteria

INDIANA
GEOLOGICAL SURVEY

Organization and Project Information

Project ID:	Structure #1
Des. ID:	1902734
Project Title:	Small Structures Project on SR 1, SR 26, and US 27
Name of Organization:	Lochmueller Group
Requested by:	Robert Winebrinner

Environmental Assessment Report

1. Geological Hazards:
   - Moderate liquefaction potential
2. Mineral Resources:
   - Bedrock Resource: High Potential
   - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
   - None documented in the area

*All map layers from Indiana Map (maps.indiana.edu)

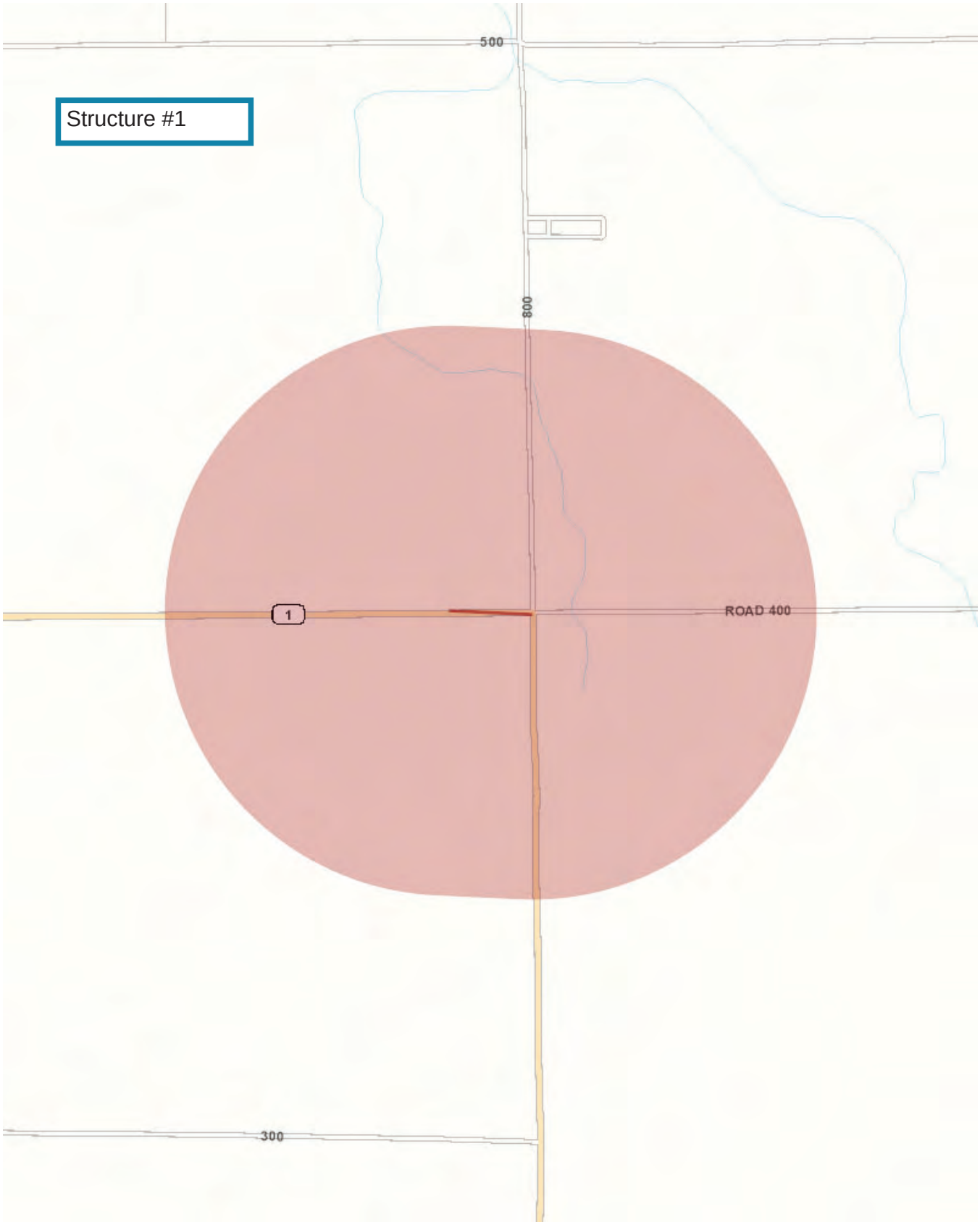
This information was furnished by Indiana Geological Survey

Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: May 20, 2022



Organization and Project Information

Project ID:	Structures #2 and #3
Des. ID:	1902734
Project Title:	Small Structures Project on SR 1, SR 26, and US 277
Name of Organization:	Lochmueller Group
Requested by:	Robert Winebrinner

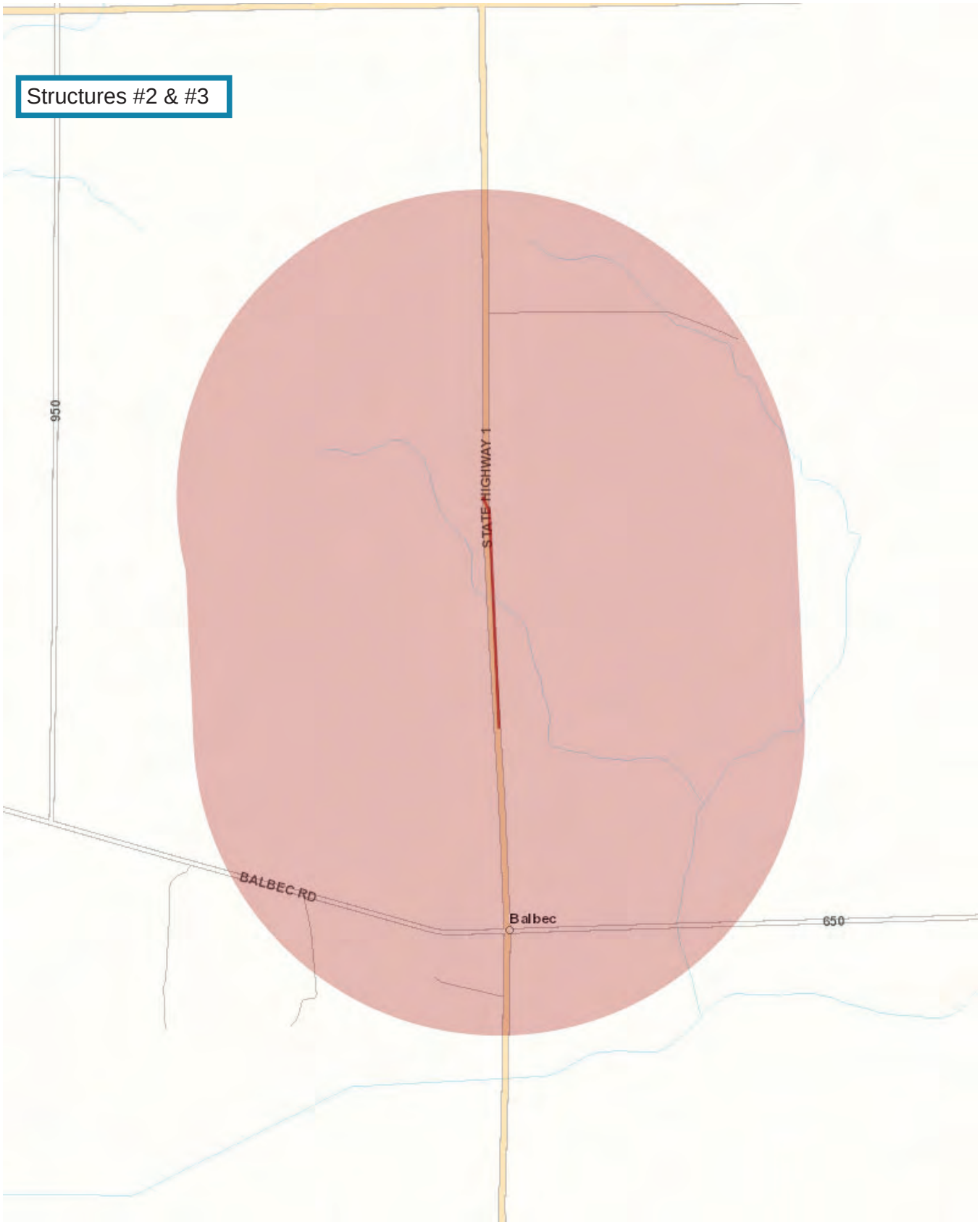
Environmental Assessment Report

1. Geological Hazards:
    - Moderate liquefaction potential
2. Mineral Resources:
    - Bedrock Resource: High Potential
    - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
    - Petroleum Exploration Wells

*All map layers from Indiana Map (maps.indiana.edu)

This information was furnished by Indiana Geological Survey
Address: 1001 E. 10th St., Bloomington, IN 47405
Email: IGSEnvir@indiana.edu
Phone: 812 855-7428

Date: May 20, 2022



Organization and Project Information

Project ID: Structure #4
Des. ID: 1902734
Project Title: Small Structures Project on SR 1, SR 26, and US 27
Name of Organization: Lochmueller Group
Requested by: Robert Winebrinner

Environmental Assessment Report

1. Geological Hazards:
    - Moderate liquefaction potential
2. Mineral Resources:
    - Bedrock Resource: High Potential
    - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
    - Petroleum Exploration Wells

*All map layers from Indiana Map (maps.indiana.edu)

DISCLAIMER:

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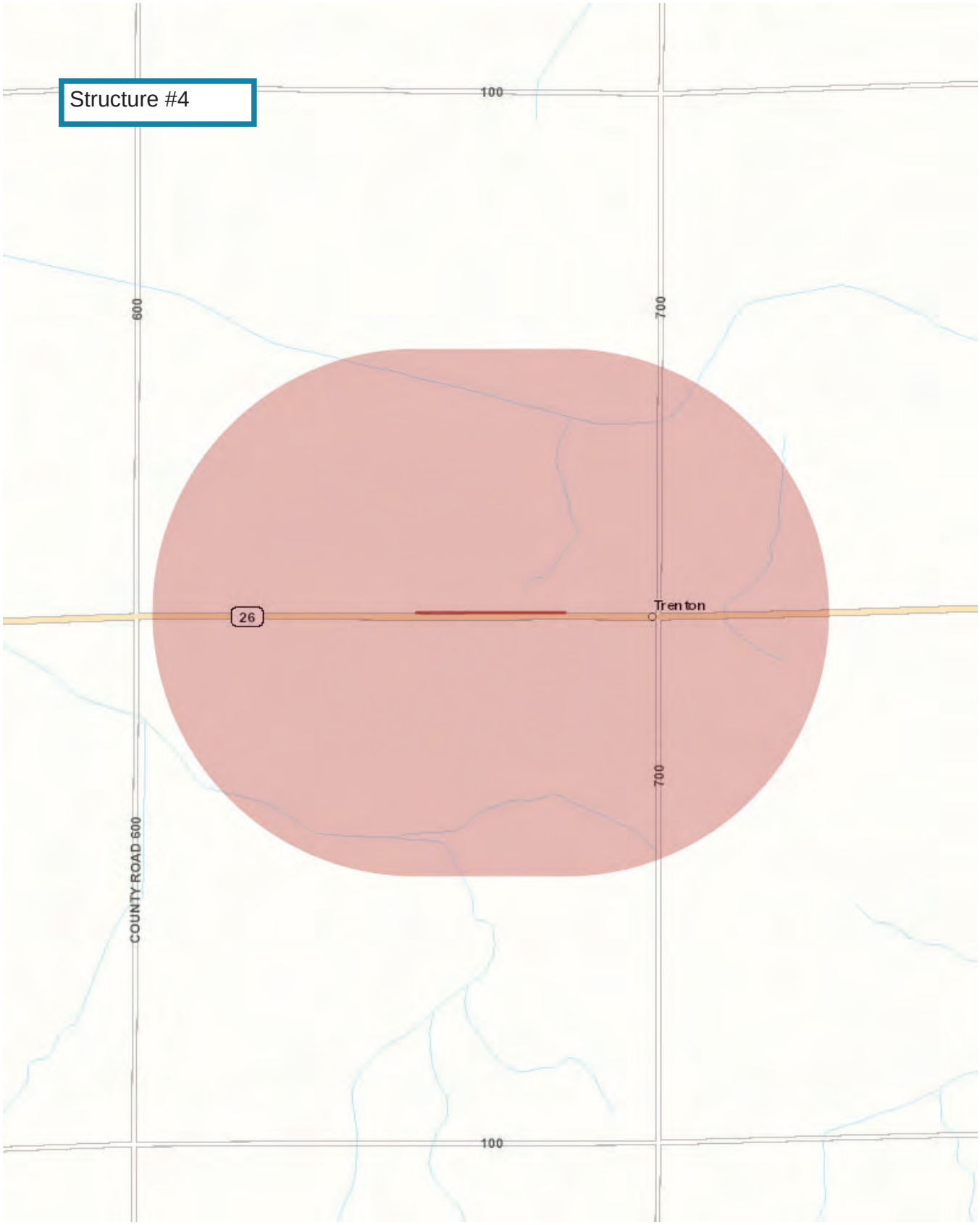
Address: 1001 E. 10th St., Bloomington, IN 47405
Email: IGSEnvir@indiana.edu
Phone: 812 855-7428

Date: May 20, 2022



Organization and Project Information

Project ID:	Structures #5, #6, and #7
Des. ID:	1902734
Project Title:	Small Structures Project on SR 1, SR 26, and US 27
Name of Organization:	Lochmueller Group
Requested by:	Robert Winebrinner

Environmental Assessment Report

1. Geological Hazards:
    - Moderate liquefaction potential
    - 1% Annual Chance Flood Hazard
2. Mineral Resources:
    - Bedrock Resource: High Potential
    - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
    - Petroleum Exploration Wells
    - Abandoned Industrial Minerals Sand Gravel Pits

*All map layers from Indiana Map (maps.indiana.edu)

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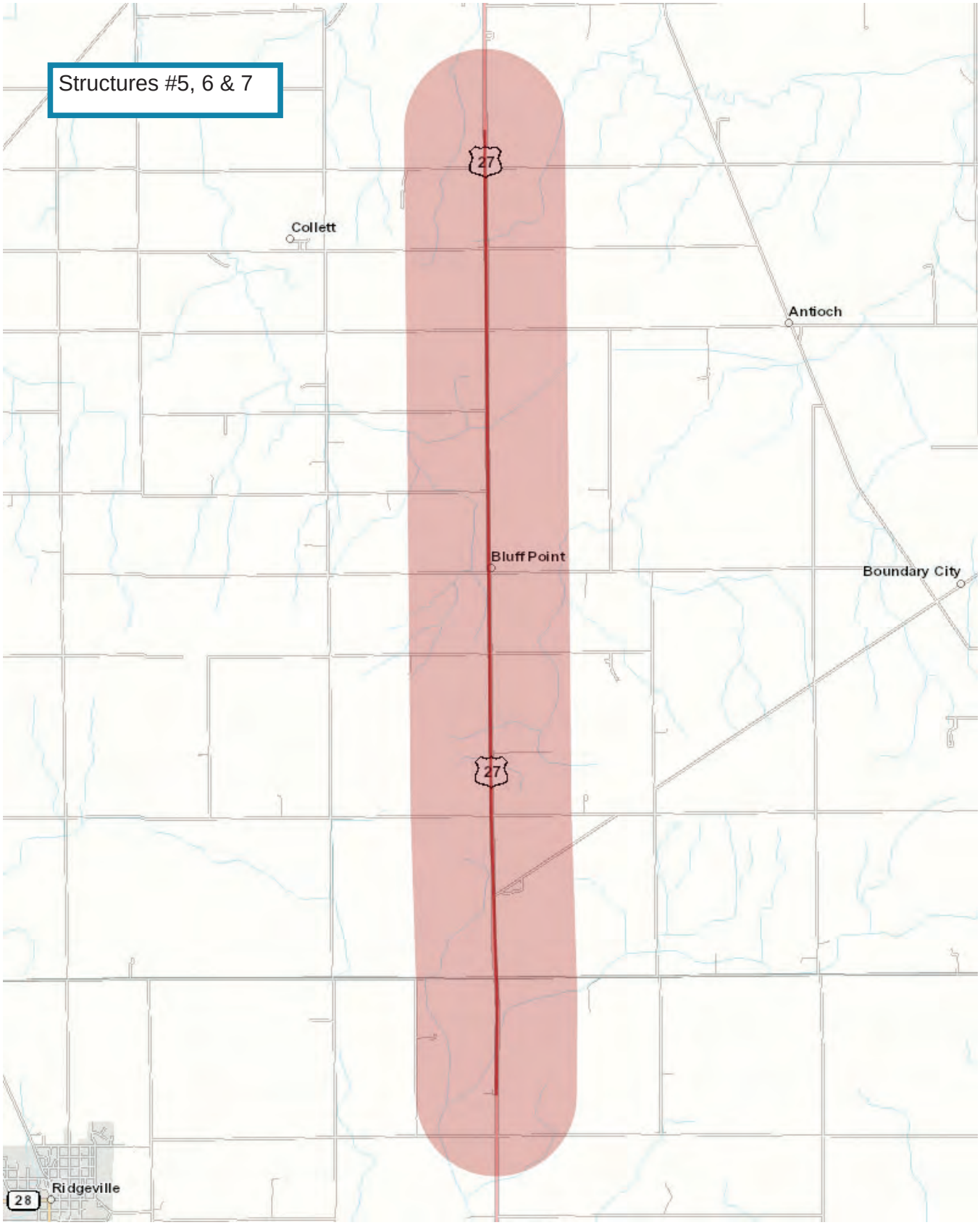
Email: IGSEnvir@indiana.edu
Phone: 812 855-7428

Date: May 20, 2022



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403-2121
Phone: (812) 334-4261 Fax: (812) 334-4273

In Reply Refer To: July 05, 2022
Project Code: 2022-0023080
Project Name: Small Structures Project-SR 26, SR 1, & US 27-Blackford, Jay, and Randolph Cos. -DES 1902734

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - http://www.fws.gov/midwest/endangered/section7/

s7process/index.html. This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process. For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of

Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List
- Migratory Birds
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403-2121
(812) 334-4261

Project Summary

Project Code: 2022-0023080
Event Code: None
Project Name: Small Structures Project-SR 26, SR 1, & US 27-Blackford, Jay, and Randolph Cos. -DES 1902734
Project Type: Culvert Repair/Replacement/Maintenance
Project Description: The Indiana Department of Transportation, Greenfield District, with federal funding from the Federal Highway Administration (FHWA), intends to proceed with a small structures project along SR 26, SR 1, and US 27 in Blackford, Jay, and Randolph Counties, Indiana (Des. No. 1902734). The project involves seven existing small pipes. The pipes range in size from 15 to 30 inches in diameter and 46 to 106 feet in length. The structures are rated as in poor condition (rating of 3 of a possible 9).

Structure 1 (CLV-001-068-87.96) is located in Randolph County along SR 1, approximately 1.94 miles north of SR 32. Structure 2 (CLV-001-038-110.71) is located in Jay County along SR 1, approximately 1.06 miles south of SR 18. Structure 3 (CLV-001-038-110.93) is located in Jay County along SR 1, approximately 0.85 mile south of SR 18. Structure 4 (CLV-026-005-125.01) is located in Blackford County along SR 26, approximately 1.90 miles west of SR 167. Structure 5 (CLV-027-068-55.25) is located in Randolph County along US 27, approximately 1.30 miles north of SR 28. Structure 6 (CLV-027-038-57.06) is located in Jay County along US 27, approximately 3.06 miles north of SR 28. Structure 7 (CLV-027-038-61.28) is located in Jay County along US 27, approximately 7.23 miles north of SR 28.

Suitable summer habitat exists within the project area of Structure 4 (CLV-026-005-125.01). Suitable summer habitat exists adjacent to the project area of Structure 1 (CLV-001-068-87.96), Structure 2 (CLV-001-038-110.71), and Structure 3 (CLV-001-038-110.93). Suitable summer habitat exists within 1,000 feet of the project area of Structure 5 (CLV-027-068-55.25), Structure 6 (CLV-027-038-57.06), and Structure 7 (CLV-027-038-61.28). Bat habitat was documented within the project action area of the structures. Three NLEB and two Indiana bat captures were documented within proximity to one of the structures. However, tree removal is not anticipated for any of the structures.

Culvert inspection reports are not available for these structures. Field investigation revealed no evidence of bats in the pipes. A separate assessment is included for each pipe. Construction is anticipated to occur

within the 2023 construction season, typically March through November. Temporary lighting will be used on the project, though no permanent lighting will be installed.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@40.220997100000005,-85.12951231353401,14z

Counties: Blackford, Jay, and Randolph counties, Indiana

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10

NAME	BREEDING SEASON
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Cerulean Warbler *Dendroica cerulea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 21 to Jul 20
Kentucky Warbler *Oporornis formosus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Prothonotary Warbler *Protonotaria citrea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Red-headed Woodpecker *Melanerpes erythrocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

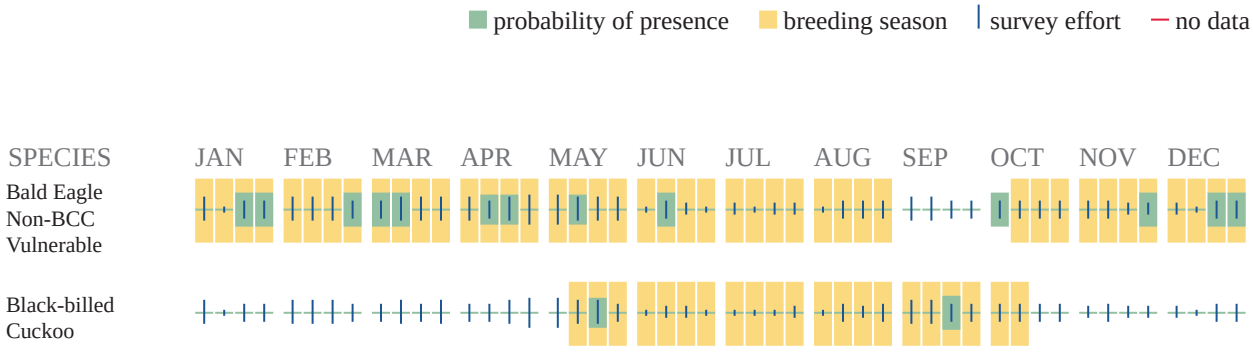
1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

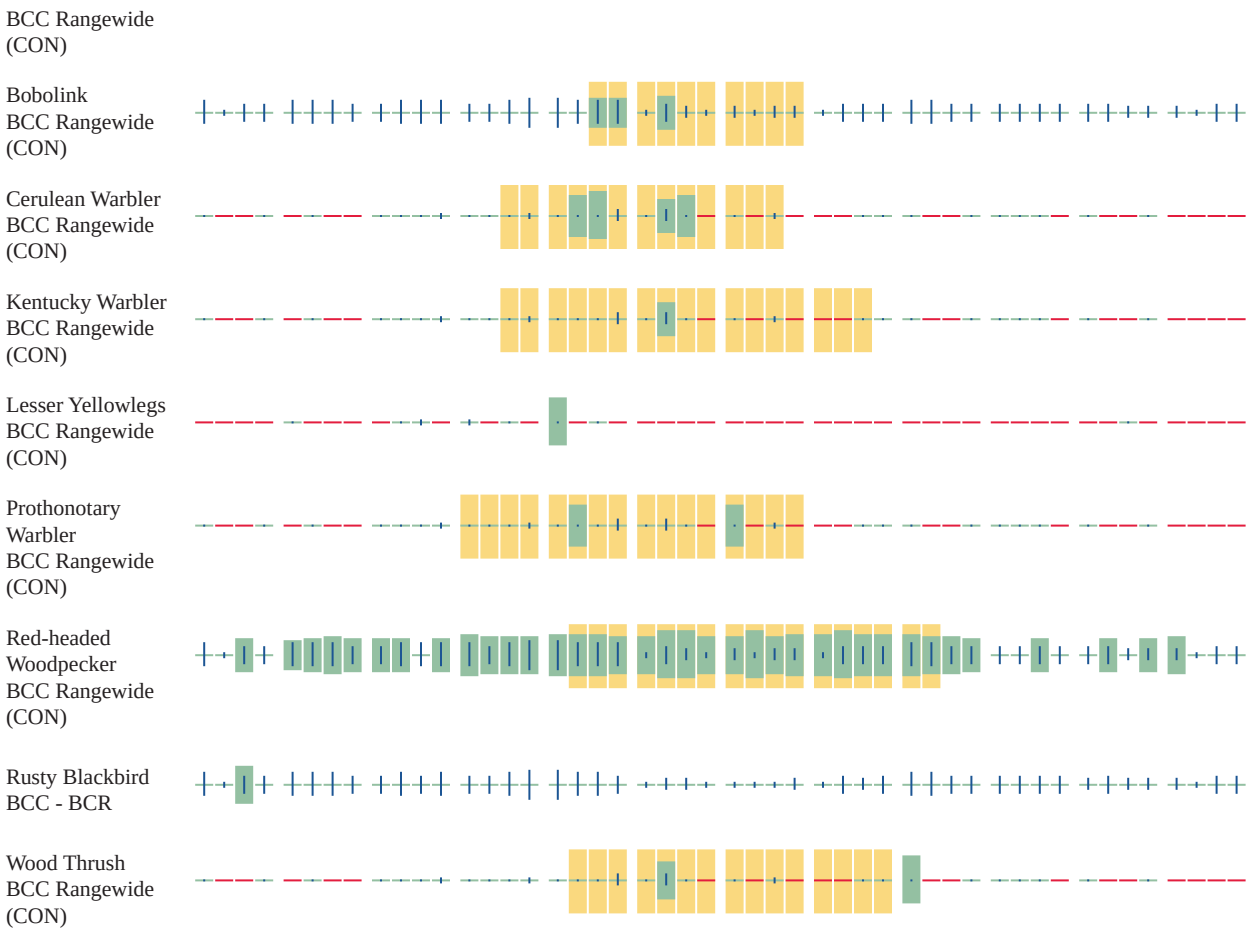
Breeding Season (■)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits

may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?
The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?
The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);

2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects
For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?
If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities,

Wetlands

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPaC User Contact Information

Agency:	Federal Highway Administration
Name:	Robert Winebrinner
Address:	3502 Woodview Trace
Address Line 2:	Suite 150
City:	Indianapolis
State:	IN
Zip:	46268
Email	rwinebrinner@lochgroup.com
Phone:	3173346858

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403-2121
Phone: (812) 334-4261 Fax: (812) 334-4273
http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html

In Reply Refer To: January 10, 2022
Consultation code: 03E12000-2022-I-0449
Event Code: 03E12000-2022-E-03276
Project Name: Small Structures Project-SR 26, SR 1, & US 27-Blackford, Jay, and Randolph Cos. -DES 1902734

Subject: Concurrence verification letter for the 'Small Structures Project-SR 26, SR 1, & US 27-Blackford, Jay, and Randolph Cos. -DES 1902734' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **Small Structures Project-SR 26, SR 1, & US 27-Blackford, Jay, and Randolph Cos. -DES 1902734** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances,

Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Candidate

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

Small Structures Project-SR 26, SR 1, & US 27-Blackford, Jay, and Randolph Cos. -DES 1902734

Description

The Indiana Department of Transportation, Greenfield District, with federal funding from the Federal Highway Administration (FHWA), intends to proceed with a small structures project along SR 26, SR 1, and US 27 in Blackford, Jay, and Randolph Counties, Indiana (Des. No. 1902734). The project involves seven existing small pipes. The pipes range in size from 15 to 30 inches in diameter and 46 to 106 feet in length. The structures are rated as in poor condition (rating of 3 of a possible 9).

Structure 1 (CLV-001-068-87.96) is located in Randolph County along SR 1, approximately 1.94 miles north of SR 32. Structure 2 (CLV-001-038-110.71) is located in Jay County along SR 1, approximately 1.06 miles south of SR 18. Structure 3 (CLV-001-038-110.93) is located in Jay County along SR 1, approximately 0.85 mile south of SR 18. Structure 4 (CLV-026-005-125.01) is located in Blackford County along SR 26, approximately 1.90 miles west of SR 167. Structure 5 (CLV-027-068-55.25) is located in Randolph County along US 27, approximately 1.30 miles north of SR 28. Structure 6 (CLV-027-038-57.06) is located in Jay County along US 27, approximately 3.06 miles north of SR 28. Structure 7 (CLV-027-038-61.28) is located in Jay County along US 27, approximately 7.23 miles north of SR 28.

Suitable summer habitat exists within the project area of Structure 4 (CLV-026-005-125.01). Suitable summer habitat exists adjacent to the project area of Structure 1 (CLV-001-068-87.96), Structure 2 (CLV-001-038-110.71), and Structure 3 (CLV-001-038-110.93). Suitable summer habitat exists within 1,000 feet of the project area of Structure 5 (CLV-027-068-55.25), Structure 6 (CLV-027-038-57.06), and Structure 7 (CLV-027-038-61.28). Bat habitat was documented within the project action area of the structures. Three NLEB and two Indiana bat captures were documented within proximity to one of the structures. However, tree removal is not anticipated for any of the structures.

Culvert inspection reports are not available for these structures. Field investigation revealed no evidence of bats in the pipes. A separate assessment is included for each pipe. Construction is anticipated to occur within the 2023 construction season, typically March through November. Temporary lighting will be used on the project, though no permanent lighting will be installed.

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat[1]?

   [1] See Indiana bat species profile

   Automatically answered
   Yes

2. Is the project within the range of the Northern long-eared bat[1]?

   [1] See Northern long-eared bat species profile

   Automatically answered
   Yes

3. Which Federal Agency is the lead for the action?

   A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

   [1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

   No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/ rail surfaces[1]?

   [1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

   No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum[1]?

   [1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

   No

7. Is the project located **within** a karst area?

   No

8. Is there *any* suitable[1] summer habitat for Indiana Bat or NLEB **within** the project action area[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

   [1] See the Service's summer survey guidance for our current definitions of suitable habitat.

   [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the national consultation FAQs.

   Yes

9. Will the project remove *any* suitable summer habitat[1] and/or remove/trim any existing trees **within** suitable summer habitat?

   [1] See the Service's summer survey guidance for our current definitions of suitable habitat.

   No

10. Have presence/probable absence (P/A) summer surveys[1][2] been conducted[3][4] **within** the suitable habitat located within your project action area?

    [1] See the Service's summer survey guidance for our current definitions of suitable habitat.

    [2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

    [3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

    [4] Negative presence/probable absence survey results obtained using the summer survey guidance are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

    No

11. Does the project include activities **within documented Indiana bat habitat**[1][2]?

    [1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

    [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

    Yes

12. Does the project include activities **within documented NLEB habitat**[1][2]?

    [1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

    [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

    Yes

13. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

    No

14. Does the project include slash pile burning?

    No

15. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

    Yes

16. Is there *any* suitable habitat[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

    [1] See the Service's current summer survey guidance for our current definitions of suitable habitat.

    Yes

17. Has a bridge assessment[1] been conducted **within** the last 24 months[2] to determine if the bridge is being used by bats?

    [1] See User Guide Appendix D for bridge/structure assessment guidance

    [2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

    Yes

    SUBMITTED DOCUMENTS

    - *Culvert Assessment Forms Combined_1902734_signed.pdf https://ecos.fws.gov/ipac/project/RQT2D4NKXNBDPH5VUCSY4VENJA/projectDocuments/108531989*

18. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)[1]?

    [1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

    Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

    No

19. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?

    No

20. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

    No

21. Will the project involve the use of **temporary** lighting *during* the active season?

    Yes

22. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

    Yes

23. Will the project install new or replace existing **permanent** lighting?

    No

24. Does the project include percussives or other activities (**not including tree removal/ trimming or bridge/structure work**) that will increase noise levels above existing traffic/ background levels?

    No

25. Are *all* project activities that are **not associated with** habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

    Examples: lining roadways, unlighted signage , rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

    Yes

26. Will the project raise the road profile **above the tree canopy**?

    No

27. Are the project activities that are not associated with habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

    Automatically answered
    Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO

28. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

    Automatically answered
    Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected

29. **General AMM 1**
    Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

    Yes

30. **Lighting AMM 1**
    Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

    Yes

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

   N/A

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

   N/A

3. Please describe the proposed bridge work:

   Replacement of seven small pipes in-kind.

4. Please state the timing of all proposed bridge work:

   2023 Construction Season, March to November

5. Please enter the date of the bridge assessment:

   October 4 to October 15, 2021

Avoidance And Minimization Measures (AMMs)

This determination key result includes the committment to implement the following Avoidance and Minimization Measures (AMMs):

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on April 22, 2021. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

Bridge/Structure Bat Assessment Form

Date & Time of Assessment	DOT Project Number	Route/Facility Carried	County
Oct. 4, 2021 15:45	1902734	SR 1	Randolph
Federal Structure ID	**Structure Coordinates (latitude and longitude)**	**Structure Height (approximate)**	**Structure Length**
CLV- 001-068-87.96	40.220983°, -85.129569°	30 inches	46 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☐ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☒ Other: n/a
☒ Other: n/a	☒ Other: n/a	

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Creosote Evidence

- ○ Yes ◉ No
- ○ Unknown

Notes:

Crossings Traversed (check all that apply)

- ☐ Bare ground
- ☐ Rip-rap
- ☐ Flowing water
- ☐ Standing water
- ☒ Seasonal water
- ☐ Open vegetation
- ☒ Closed vegetation
- ☐ Railroad
- ☐ Road/trail - Type:
- ☐ Other:

Surrounding Habitat (check all that apply)

- ☒ Agricultural
- ☐ Commercial
- ☐ Residential-urban
- ☐ Residential-rural
- ☐ Woodland/forested
- ☐ Grassland
- ☐ Ranching
- ☐ Riparian/wetland
- ☐ Mixed use
- ☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Bridge/Structure Bat Assessment Form

Date & Time of Assessment	DOT Project Number	Route/Facility Carried	County
Oct. 6, 2021 15:00	1902734	SR 1	Jay
Federal Structure ID	**Structure Coordinates (latitude and longitude)**	**Structure Height (approximate)**	**Structure Length**
CLV- 001-038-110.71	40.536799°, -85.149355°	24 inches	54 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☐ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☒ Other: n/a
☒ Other: n/a	☒ Other: n/a	

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Creosote Evidence

- ○ Yes ◉ No
- ○ Unknown

Notes:

Crossings Traversed (check all that apply)

- ☐ Bare ground
- ☐ Rip-rap
- ☐ Flowing water
- ☒ Standing water
- ☐ Seasonal water
- ☐ Open vegetation
- ☒ Closed vegetation
- ☐ Railroad
- ☐ Road/trail - Type:
- ☐ Other:

Surrounding Habitat (check all that apply)

- ☒ Agricultural
- ☐ Commercial
- ☐ Residential-urban
- ☐ Residential-rural
- ☐ Woodland/forested
- ☐ Grassland
- ☐ Ranching
- ☐ Riparian/wetland
- ☐ Mixed use
- ☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Bridge/Structure Bat Assessment Form

Date & Time of Assessment: Oct. 6, 2021 14:00	DOT Project Number: 1902734	Route/Facility Carried: SR 1	County: Jay
Federal Structure ID: CLV-001-038-110.93	Structure Coordinates (latitude and longitude): 40.539952°, -85.149592°	Structure Height (approximate): 15 inches	Structure Length: 76 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☐ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☒ Other: n/a
☒ Other: n/a	☒ Other: n/a	

Creosote Evidence

- ○ Yes ◉ No ○ Unknown

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Notes:

Crossings Traversed (check all that apply)

☐ Bare ground	☐ Open vegetation
☐ Rip-rap	☒ Closed vegetation
☒ Flowing water	☐ Railroad
☐ Standing water	☐ Road/trail - Type:
☐ Seasonal water	☐ Other:

Surrounding Habitat (check all that apply)

☒ Agricultural	☐ Grassland
☐ Commercial	☐ Ranching
☐ Residential-urban	☐ Riparian/wetland
☐ Residential-rural	☐ Mixed use
☐ Woodland/forested	☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	**Assessment Notes**	**Evidence of Bats** (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Bridge/Structure Bat Assessment Form

Date & Time of Assessment	DOT Project Number	Route/Facility Carried	County
Oct. 6, 2021 11:00	1902734	SR 26	Blackford
Federal Structure ID	**Structure Coordinates (latitude and longitude)**	**Structure Height (approximate)**	**Structure Length**
CLV-026-05-125.01	40.449999°, -85.243563°	18 inches	61 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☐ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☒ Other: n/a
☒ Other: n/a	☒ Other: n/a	

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Creosote Evidence

- ○ Yes ◉ No
- ○ Unknown

Notes:

Crossings Traversed (check all that apply)

- ☐ Bare ground
- ☐ Rip-rap
- ☐ Flowing water
- ☐ Standing water
- ☐ Seasonal water
- ☐ Open vegetation
- ☒ Closed vegetation
- ☐ Railroad
- ☐ Road/trail - Type:
- ☐ Other:

Surrounding Habitat (check all that apply)

- ☒ Agricultural
- ☐ Commercial
- ☐ Residential-urban
- ☒ Residential-rural
- ☐ Woodland/forested
- ☐ Grassland
- ☐ Ranching
- ☐ Riparian/wetland
- ☐ Mixed use
- ☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Bridge/Structure Bat Assessment Form

Date & Time of Assessment	DOT Project Number	Route/Facility Carried	County
Oct. 15, 2021 13:45	1902734	US 27	Randolph
Federal Structure ID	**Structure Coordinates (latitude and longitude)**	**Structure Height (approximate)**	**Structure Length**
CLV-027-068-55.25	40.297614°, -84.976508°	24 inches	106 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☒ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☐ Other:
☒ Other: n/a	☒ Other: n/a	

Creosote Evidence

- ○ Yes ◉ No ○ Unknown

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Notes:

Crossings Traversed (check all that apply)

☐ Bare ground	☐ Open vegetation
☐ Rip-rap	☒ Closed vegetation
☐ Flowing water	☐ Railroad
☐ Standing water	☐ Road/trail - Type:
☐ Seasonal water	☐ Other:

Surrounding Habitat (check all that apply)

☒ Agricultural	☐ Grassland
☐ Commercial	☐ Ranching
☐ Residential-urban	☐ Riparian/wetland
☐ Residential-rural	☐ Mixed use
☐ Woodland/forested	☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Bridge/Structure Bat Assessment Form

Date & Time of Assessment	DOT Project Number	Route/Facility Carried	County
Oct. 15, 2021 15:45	1902734	US 27	Jay
Federal Structure ID	**Structure Coordinates (latitude and longitude)**	**Structure Height (approximate)**	**Structure Length**
CLV-027-038-57.06	40.323476°, -84.977044°	24 inches	104 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☐ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☒ Other: n/a
☒ Other: n/a	☒ Other: n/a	

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Creosote Evidence

- ○ Yes ◉ No
- ○ Unknown

Notes:

Crossings Traversed (check all that apply)

- ☐ Bare ground
- ☐ Rip-rap
- ☐ Flowing water
- ☒ Standing water
- ☐ Seasonal water
- ☐ Open vegetation
- ☒ Closed vegetation
- ☐ Railroad
- ☐ Road/trail - Type:
- ☐ Other:

Surrounding Habitat (check all that apply)

- ☒ Agricultural
- ☐ Commercial
- ☐ Residential-urban
- ☐ Residential-rural
- ☐ Woodland/forested
- ☐ Grassland
- ☐ Ranching
- ☐ Riparian/wetland
- ☐ Mixed use
- ☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Bridge/Structure Bat Assessment Form

Date & Time of Assessment	DOT Project Number	Route/Facility Carried	County
Oct. 15, 2021 16:30	1902734	US 27	Jay
Federal Structure ID	**Structure Coordinates (latitude and longitude)**	**Structure Height (approximate)**	**Structure Length**
CLV-027-038-61.28	40.323476°, -84.977044°	24 inches	80 feet

Structure Type (check one)

Bridge Construction Style

- ○ Cast-in-place
- ○ Flat Slab/Box
- ○ Truss (Side View)
- ○ Parallel Box Beam
- ○ Pre-stressed Girder
- ○ Steel I-beam
- ○ Covered
- ○ Other:

Culvert Type

- ○ Box
- ◉ Pipe/Round
- ○ Other:

Other Structure

- ○

Structure Material (check all that apply)

Deck Material	*Beam Material*	*End/Back Wall Material*
☐ Metal	☐ None	☐ Concrete
☐ Concrete	☐ Concrete	☐ Timber
☐ Timber	☐ Steel	☐ Stone/Masonry
☐ Open grid	☐ Timber	☒ Other: n/a
☒ Other: n/a	☒ Other: n/a	

Culvert Material

- ☒ Metal
- ☐ Concrete
- ☐ Plastic
- ☐ Stone/Masonry
- ☐ Other:

Creosote Evidence

- ○ Yes ◉ No
- ○ Unknown

Notes:

Crossings Traversed (check all that apply)

- ☐ Bare ground
- ☐ Rip-rap
- ☐ Flowing water
- ☒ Standing water
- ☐ Seasonal water
- ☐ Open vegetation
- ☒ Closed vegetation
- ☐ Railroad
- ☐ Road/trail - Type:
- ☐ Other:

Surrounding Habitat (check all that apply)

- ☒ Agricultural
- ☐ Commercial
- ☐ Residential-urban
- ☐ Residential-rural
- ☐ Woodland/forested
- ☐ Grassland
- ☐ Ranching
- ☐ Riparian/wetland
- ☐ Mixed use
- ☐ Other:

Areas Assessed (check all that apply)

Check all areas that apply. If an area is not present in the structure, check the "not present" box.
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.

Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)
☒ All crevices and cracks: **Bridges/culverts:** rough surfaces or imperfections in concrete **Other structures:** soffits, rafters, attic areas	☐ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck (Gap / Railing)	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☒ Not present	☐ Visual - live # dead # ☐ Guano ☐ Staining ☐ Audible ☐ Odor ☐ Photos ☐ Species

Name: Ruth Hook

Signature: Ruth Hook

Categorical Exclusion

Appendix D

Section 106 of the National Historic Preservation Act (NHPA)

Date: 3/2/2022

Project Designation Number: 1902734

Route Number: SR 1/SR26/US27

Project Description: SR1/SR26/US27 Small Structures & Drains Construction

The need for the project stems from the deteriorated condition of the seven corrugated metal pipe (CMP) culvert pipes. According to the Indiana Department of Transportation (INDOT) Scoping Application Reports for these structures, the current condition rating for each pipe is 3, which represents "poor" condition. The purpose of the project is to increase the rating of the pipes to a "good" rating of at least 7 out of 9, increasing the life of the pipe an additional 50 years.

The proposed project involves the replacement of each pipe in-kind. Exact dimensions of each replacement pipe are unknown at this time. Pavement will be restored at each structure location. The total length of each pipe replacement varies from 65–200 feet. Land use near each of the culverts varies between residential, agricultural, or commercial.

The seven structures are located in five separate townships in three counties. Refer to Attachment 1 at the end of this document for information on each culvert location.

Structure No.	Route No.	Feature Crossed	Structure type
CLV-001-038-110.93	SR 1	UNT to McClain Ditch	CMP
CLV-001-038-110.71	SR 1	UNT to McClain Ditch	CMP
CLV-026-005-125.01	SR 26	UNT to Tyner Ditch	CMP
CLV-027-038-61.28	US 27	Golf Brook	CMP
CLV-027-038-57.06	US 27	UNT to Goshen Creek	CMP
CLV-027-068-55.25	US 27	UNT to O'Brien Creek	CMP
CLV-001-068-87.96	SR 1	UNT to Bush Creek	CMP

Feature crossed (if applicable):

Structure No.	Feature Crossed
CLV-001-038-110.93	UNT to McClain Ditch
CLV-001-038-110.71	UNT to McClain Ditch
CLV-026-005-125.01	UNT to Tyner Ditch
CLV-027-038-61.28	Golf Brook
CLV-027-038-57.06	UNT to Goshen Creek
CLV-027-068-55.25	UNT to O'Brien Creek
CLV-001-068-87.96	UNT to Bush Creek

Civil Township/County:

Structure No.	Township	County
CLV-001-038-110.93	Penn	Jay
CLV-001-038-110.71	Penn	Jay
CLV-026-005-125.01	Jackson	Blackford
CLV-027-038-61.28	Pike	Jay
CLV-027-038-57.06	Pike	Jay
CLV-027-068-55.25	Ward	Randolph
CLV-001-068-87.96	Monroe	Randolph

Information reviewed (please check all that apply):

☑ General project location map ☑ USGS map ☑ Aerial photograph ☐ Interim Report

☑ Written description of project area ☑ General project area photos ☑ Soil survey data

☐ Previously completed historic property reports ☑ Previously completed archaeology reports

☑ Bridge Inspection Information ☑ SHAARD ☑ SHAARD GIS ☑ Streetview Imagery

Other (please specify): Indiana Historic Building, Bridges, and Cemeteries Map (IHBBCM); County GIS data (accessed via https://beacon.schneidercorp.com/); Bridge Inspection Application System (BIAS); INDOT Fort Wayne project information accessed via ProjectWise; Project information, photos and map provided by ASC Group, Inc. on 1/31/2022 on file at INDOT, CRO.

Crider, Andrea D. and Sarah Terheide
2022 A Phase Ia Archaeological Reconnaissance for the Proposed SR 1, SR 26, and US 27 Various Small Structure Replacements Project, Penn and Pike Townships, Jay County, Jackson Township, Blackford County, and Monroe and Ward Townships, Randolph County, Indiana (Des. No. 1902734) Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, In.

Please specify all applicable categories and condition(s) (conditions that are applicable are highlighted):

B-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below ***[BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]***:

Condition A (Archaeological Resources)

One of the two conditions listed below must be met *(EITHER Condition i or Condition ii must be satisfied)*:

i. Work occurs in previously disturbed soils; *OR*

ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

One of the conditions below must be met *(EITHER Condition i or Condition ii must be satisfied)*:

i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions *(Condition a, Condition b, or Condition c must be satisfied)*:

a. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*

b. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*

c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met *(BOTH Condition 1 AND Condition 2 must be met):*

1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*

2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

ii. Work involves the installation of a new culvert and other drainage structures AND/OR there may be impacts to unusual features, including historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions *(BOTH Condition a and Condition b must be satisfied)*:

a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*

b. The subject structure exhibits one of the characteristics described below *(Condition 1, Condition 2 or Condition 3 must be satisfied)*.

1. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
2. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

Are there any commitments associated with this project? If yes, please explain and include in the Additional Comments Section below. yes ☐ no ☒

Does the project result in a de minimis impact to a Section 4(f) protected historic resource? If yes, please explain in the Additional Comments Section below. yes ☐ no ☒

Additional Comments:

Above-ground Resources

With regard to above-ground resources, an INDOT Cultural Resources historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 performed a desktop review of the surrounding areas for each proposed pipe replacement. Given the limited scope of work, which includes the in-kind replacement of multiple small structures in their respective general locations, only those above-ground properties immediately adjacent to the structures have the potential to be impacted. Based on a review of available online street-view imagery and aerial photography, the areas immediately adjacent to the each of subject structures consists of agricultural fields. In the case of CLV 026-005-125.01, however, a late twentieth-century modular home is located southeast of (on the south side of SR 26) the structure. The resource does not meet the age and/or integrity qualifications for National Register eligibility. No unusual features are present at any of the proposed pipe replacement locations that may be impacted by the project

Internal INDOT Fort Wayne District project records identify each structure proposed for replacement (as listed in previously provided table) as a corrugated metal pipe (CMP) structure measuring between 18" X 18" and 24" X 24" in diameter. Due to their small diameters (less than 4 feet), these structures were not included in the BIAS

database. Due to their functional classification as pipes/CMPs, the structures were not surveyed for/included in the 2009 INDOT-sponsored Historic Bridge Inventory (HBI).

Based on an examination of photos and descriptions of the structures located in the internal INDOT Fort Wayne District project-specific information, the structures exhibit no wood, stone, or brick structures or parts therein. In addition, there is no evidence to suggest that they possess historical or engineering significance.
e

Archaeological Resources

An INDOT Cultural Resources Office (CRO) archaeologist, who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61, reviewed the archaeology report submitted by ASC Group (ASC), on behalf of Parsons Transportation Group on January 7, 2022.

An archaeological records check and Phase Ia reconnaissance survey of the project area were conducted by ASC (Crider & Terheide 2022). A review of SHAARD and SHAARD GIS indicated that one site and two previous studies had been recorded within the seven survey areas.

Site 12R387 is located within the northeastern corner of survey area 7. This site was located in an agricultural field, during an archaeological survey, for the proposed improvements to the SR 1 and CR 800 W intersection project (Bennett 1996). The site is a dense historic scatter which was recommended not eligible for the National Register of Historic Places (NRHP).

The project area had been previously investigated by Bennett in 1996 for the proposed improvements to the SR 1 and CR 800 W intersection project, Bennett recorded one site discussed above. A second study was completed by. Carmany in 2000 for the proposed rehabilitation of SR 26 from the eastern limits of Hartford City to SR 1, no archaeological sites were located during this survey.

A 9.9 acre survey area was examined through the excavation of shovel probes, visual inspection of areas of disturbance and pedestrian survey of agricultural fields. Site 12R387 was not relocated during the survey. Because the portion of the site within the survey area was located within a ditch and cut slope of the landform, no shovel probes were excavated. The site has been modified by an intersection improvement project and subsequent development of the residential lot. If any of the site still remains, it is beyond the boundaries of Area 7. No evidence for archaeological deposits was identified by the field reconnaissance and it was recommended that the project be allowed to proceed as planned. It is our opinion that the report is acceptable, and we concur with the evaluations and recommendations made by ASC (Crider & Terheide 2022). Therefore, there are no archaeological concerns.

Accidental Discovery: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and the INDOT Cultural Resources Office and the Division of Historic Preservation and Archaeology will be notified immediately.

INDOT Cultural Resources staff reviewer(s): Patricia Jo Korzeniewski and Susan Branigin

****Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*

Categorical Exclusion

Appendix E

Water Resources

Approved 3.28.2022

Waters of the U.S. Determination
Small Structures Replacement Project
Structures on SR 26, SR 1, & US 27
Blackford, Jay, & Randolph Counties, Indiana
Des. No. 1902734

Date(s) of Field Reconnaissance
October 4th, 6th, and 15th, 2021

Location
The project involves seven non-contiguous small structures. The structures are located along State Road (SR) 1, SR 26, and US 27 in Blackford, Jay, and Randolph Counties (A1 through A15).

Structure 1: CV-001-068-87.96
- Section 1, Township 20 North, Range 12 East & Section 36, Township 21 North, Range 12 East & Section 6, Township 20 North, Range 13 East & Section 31, Township 21 North, Range 13 East
- Farmland 1:24,000 United States Geological Survey (USGS) Quadrangle
- Monroe Township, Randolph County, Indiana
- Latitude: 40.220983° N Longitude: -85.129569° W

Structure 2: CV-001-038-110.71 & Structure 3: CV-001-038-110.93
- Sections 15 & 10, Township 24 North, Range 12 East
- Petroleum 1:24,000 United States Geological Survey (USGS) Quadrangle
- Penn Township, Jay County, Indiana
- Latitude: 40.536799° N Longitude: -85.149355° W & Latitude: 40.539952° N Longitude: -85.149592° W

Structure 4: CV-026-005-125.01
- Sections 11 & 14, Township 23 North, Range 11 East
- Pennville 1:24,000 United States Geological Survey (USGS) Quadrangle
- Jackson Township, Blackford County, Indiana
- Latitude: 40.449999° N Longitude: -85.243563° W

Structure 5: CV-027-068-55.25
- Sections 4 & 5, Township 21 North, Range 14 East
- Deerfield 1:24,000 United States Geological Survey (USGS) Quadrangle
- Ward Township, Randolph County, Indiana
- Latitude: 40.297614° N Longitude: -84.976508° W

Structure 6: CV-027-038-57.06
- Sections 28, 29, 32, & 33, Township 22 North, Range 14 East
- Deerfield 1:24,000 United States Geological Survey (USGS) Quadrangle
- Pike Township, Jay County, Indiana
- Latitude: 40.323476° N Longitude: -84.977044° W

Structure 7: CV-027-038-61.28
- Sections 4 & 5, Township 22 North, Range 14 East
- Portland 1:24,000 United States Geological Survey (USGS) Quadrangle
- Pike Township, Jay County, Indiana
- Latitude: 40.384735° N Longitude: -84.977861° W

Project Description

The Indiana Department of Transportation, Greenfield District, with federal funding from the Federal Highway Administration (FHWA), intends to proceed with the seven non-contiguous small structure projects along SR 26, SR 1, and US 27 in Blackford, Jay, and Randolph Counties, Indiana (Des. No. 1902734). The proposed project involves replacement of each small structure in-kind. Exact dimensions are unknown at this time. The typical cross-section of the roadway at each small structure will remain the same. Pavement will be restored at the location of each replacement. The total length of each replacement varies from 65-200 feet.

The field investigations for the seven non-contiguous small structures project in Blackford, Jay, and Randolph Counties identified four stream features are present at three of the small structures, Structures 1, 3, and 6. The remaining four structures, Structures 2, 4, 5, and 7, did not have any stream features identified. Four separate wetlands were identified at four of the small structures, Structures 2, 4, 6, and 7. No wetlands were identified at the other three small structures, Structures 1, 3, and 5. Four non-jurisdictional roadside ditches and one non-jurisdictional concrete lined ditch were also identified.

Soils

According to the Soil Survey Geographic (SSURGO) Databases for Blackford, Randolph, and Jay Counties, Indiana the following soil series are present within the investigation areas (A16 through A22).

Structure No.	County	Soil Name	Map Abbreviation	Hydric Range
Structure 1	Randolph	Pewamo silty clay loam, 0 to 1 percent slopes	Pw	Predominately Hydric (91%)
	Randolph	Glynwood silt loam, 1 to 4 percent slopes, eroded	GnB2	Predominately Nonhydric (7%)
Structure 2	Jay	Glynwood-Mississinewa clay loams, end moraine, 3 to 8 percent slopes, severely eroded	GweB3	Predominately Nonhydric (3%)
	Jay	Glynwood silt loam, end moraine, 1 to 4 percent slopes, eroded	GleB2	Predominately Nonhydric (3%)
Structure 3	Jay	Glynwood silt loam, end moraine, 1 to 4 percent slopes, eroded	GleB2	Predominately Nonhydric (3%)
Structure 4	Blackford	Pewamo silty clay, 0 to 2 percent slopes	Pm	Predominately Hydric (91%)
	Blackford	Blount-Glynwood, thin solum complex, 0 to 3 percent slopes	BlA	Predominately Nonhydric (5%)
	Blackford	Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded	GlgB2	Predominately Nonhydric (3%)

Structure No.	County	Soil Name	Map Abbreviation	Hydric Range
Structure 5	Randolph	Morley silt loam, 3 to 6 percent slopes	MuB	Predominately Nonhydric (10%)
	Randolph	Glynwood silt loam, end moraine, 1 to 4 percent slopes, eroded	GleB2	Predominately Nonhydric (3%)
Structure 6	Jay	Pewamo silty clay, 0 to 2 percent slopes	Pm	Predominately Hydric (91%)
	Jay	Glynwood silt loam, end moraine, 1 to 4 percent slopes, eroded	GleB2	Predominately Nonhydric (3%)
Structure 7	Jay	Pewamo silty clay, 0 to 2 percent slopes	Pm	Predominately Hydric (91%)
	Jay	Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded	GlgB2	Predominately Nonhydric (3%)

National Wetlands Inventory Information

The U.S. Fish and Wildlife Indiana wetlands geodatabase (IN_geodatabase_wetlands.gdb) did not identify any NWI wetlands within the investigation areas (A23 through A29). Wetland types are based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979).

Structure No.	NWI Classification	Distance
Structure 1	Palustrine, Forested, Broad-Leaved Deciduous, Temporary Flooded (PFO1A)	0.07 mi. east.
Structure 2	Riverine, Intermittent, Streambed, Seasonally Flooded (R4SBC)	0.06 mi. east
Structure 3	Riverine, Intermittent, Streambed, Seasonally Flooded (R4SBC)	Adjacent west limit
Structure 4	Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated (PUBGx)	0.03 mi. south
Structure 5	Palustrine, Emergent, Persistent, Seasonally Flooded (PEM1C)	0.25 mi. west
Structure 6	Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated (PUBGx)	0.07 mi. south
Structure 7	Riverine, Intermittent, Streambed, Seasonally Flooded (R4SBC)	0.11 mi. west

12-Digit HUC & Floodplain

The table below identifies the 12-Digit HUC, upstream drainage area, position within a floodplain and/or a floodway, and the base flood elevation (BFE) for the seven small structures. 12-Digit HUCs are based on the WATERSHEDS_HUC12_2009_USDA_IN geodatabase (A5 through A9). Upstream drainage areas were generated using USGS StreamStats (https://streamstats.usgs.gov/ss/) (A37 through A39). Position

within a floodplain and/or floodway as well as the BFE are based on the Indiana Floodplain Information Portal (https://dnrmaps.dnr.in.gov/appsphp/fdms/) Best Available Flood Zones data (A30 through A36).

Structure No.	12-Digit HUC	Drainage Area	Floodplain/ Floodway	BFE
Structure 1	051201030204/ Bush Creek	0.059 sq. mi.	N/A	N/A
Structure 2	051201020202/ Beaver Creek – Salamonie River	N/A	N/A	863.3
Structure 3	051201020202/ Beaver Creek – Salamonie River	0.259 sq. mi.	N/A	N/A
Structure 4	051201020201/ Twomile Ditch-Salamonie River	0.036 sq. mi.	N/A	883.4
Structure 5	051201030105/ Mud Creek – Mississinewa River	N/A	N/A	989.1 ft
Structure 6	051201030105/ Mud Creek – Mississinewa River	N/A	N/A	N/A
Structure 7	051201020102/ Little Salamonie River	N/A	N/A	N/A

Attached Documents

- Project Location Maps
- USGS Quad Maps (1:24,000)
- USGS Quad Maps Zoomed (1:12,000)
- Blackford, Jay, and Randolph County's SSURGO Hydric Soils Maps
- USFWS NWI Maps
- Best Available Flood Hazard Maps
- USGS StreamStats Maps
- Water Resources Maps
- Photo Location Maps and Project Photos
- Wetland Data Forms
- Preliminary Jurisdiction Determination Form

Attachments removed to avoid duplication

Field Reconnaissance

The Waters of the U.S. (WOTUS) investigation area limits were established based on the scope of work expected for each of the small structures along SR 1, US 27, and SR 26. Field investigations identified four streams, four wetlands, four non-jurisdictional roadside ditches, and one non-jurisdictional concrete lined ditch within the investigation areas for the seven non-contiguous small structures.

Wetland determinations were conducted in accordance with the *Corps of Engineers Wetland Delineation Manual* (U.S. Army Corps of Engineers 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0* (U.S. Army Corps of Engineers 2010). Wetland Data sheets from the U.S. Army Corps of Engineers Detroit District website (https://www.lre.usace.army.mil/Missions/Regulatory-Program-and-Permits/Automated-Wetland-Determination-Data-Form/) were used to make wetland determinations. Due to discrepancies within

the data sheets for soil indicator (S7) and red parent material (F21) between the Midwest Region Version 2.0 manual and the Detroit District, all methods remained consistent with the Midwest Region Version 2.0 manual.

Water resource boundaries were mapped using a Trimble R1 receiver (sub-meter accuracy) and ArcCollector as the GIS data collection platform. For those features that displayed bed and bank, the ordinary high water mark (OHWM) width and depth was measured at the maximum dimension observed beyond the influence of bridge and culvert structures. OHWM measurements were also documented for any stream features observed in the field that were not included as blue-line or National Hydrography Dataset (NHD) features.

Stream Feature(s)
According to the USGS 1:24,000 topographic quadrangles (A5 through A15), one dashed blue-line stream feature, UNT 2 to McClain Ditch, is present within the investigation area for Structure 3 (A42). The USGS 1:24,000 topographic quadrangles for the remaining six small structures did not identify any blue line features. The NHD GIS dataset included four flow line features within the investigation areas for Structures 2, 3, 6, and 7 (A41, A42, A45 and A46).

The field investigations for the seven non-contiguous small structures project in Blackford, Jay, and Randolph Counties identified four stream features are present at three of the small structures, Structures 1, 3, and 6 (A40, A42, and A45). The remaining four structures, Structures 2, 4, 5, and 7, did not have any stream features identified (A41, A43, A44, and A46).

UNT to Bush Creek
UNT to Bush Creek is an ephemeral channel located within the investigation area for Structure 1 (A40). UNT to Bush Creek flows south to north starting from the outlet on the north side of SR 1 to outside the investigation area. Approximately 73 feet of the stream is within the investigation area. The ordinary high water mark (OHWM) is 3.75 feet wide by 0.54 feet deep. The upstream drainage area is 0.059 square mile. UNT to Bush Creek has a substrate comprised of silt, sand, and muck and has a channel morphology dominated by runs. The surrounding riparian habitat consists of maintained roadside and agricultural fields. The stream reach is considered to have poor quality due to lack of habitat, flow regime, and influence by agricultural activities. UNT to Bush Creek flows into Bush Creek which outlets into the Mississinewa River. The Mississinewa River is navigable from its junction with the Wabash River to the Indiana/Ohio state line. Therefore, UNT to Bush Creek is likely considered a jurisdictional resource under Section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

UNT 1 to McClain Ditch
UNT 1 to McClain ditch is an ephemeral channel located within the investigation area for Structure 3 (A42). UNT 1 to McClain ditch flows from north to south along the west side of SR 1 and outlets into UNT 2 to McClain Ditch. Approximately 280 feet of the stream is within the investigation area. The OHWM is 2.0 feet wide by 0.33 feet deep and does not have a delineated upstream drainage area but is included in the upstream drainage area for UNT 2 to McClain Ditch. UNT 1 to McClain ditch has a substrate comprised of muck, silt, and gravel and has a channel morphology dominated by runs. The surrounding habitat is comprised of maintained roadside and agricultural fields. This stream reach is considered to have poor quality due to lack of habitat, flow regime, and location within the roadside. UNT 1 to McClain

Ditch which outlets to UNT 2 to McClain Ditch. UNT 2 to McClain Ditch ties into McClain Ditch which outlets to Beaver Creek which flows into the Salamonie River. The Salamonie River outlets into the Wabash River in Wabash County. The Wabash River is navigable from its junction with the Ohio River through Wabash County to the Wells/Adam County line. Therefore UNT 1 to McClain Ditch is likely considered a jurisdictional resource under Section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

UNT 2 to McClain Ditch

UNT 2 to McClain Ditch is an intermittent stream feature that is a mapped NHD and a blue line feature on the USGS Petroleum quadrangle. UNT 2 to McClain Ditch flows northwest to the southeast through the investigation area along the west side of SR 1 for Structure 3 (A42). Approximately 140 feet of the stream is within the investigation area. The OHWM is 5.45 feet wide by 0.5 feet deep and has an upstream drainage area of 0.259 square mile. UNT 2 to McClain Ditch has a substrate comprised of muck, silt, and sand and the channel morphology is predominantly runs. The surrounding habitat is comprised of maintained roadside and agricultural fields. This stream reach is considered to have poor quality due to lack of habitat, flow regime, and influence from agriculture. UNT 2 to McClain Ditch ties into McClain Ditch which outlets to Beaver Creek which flows into the Salamonie River. The Salamonie River outlets into the Wabash River in Wabash County. The Wabash River is navigable from its junction with the Ohio River through Wabash County to the Wells/Adam County line. Therefore UNT 2 to McClain Ditch is likely considered a jurisdictional resource under Section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

UNT to Goshen Creek

UNT to Goshen Creek is a discontinuous ephemeral stream feature within the investigation area for Structure 6 (A45). In the southwest quadrant of the intersection of US 27 and CR 800 S, UNT to Goshen Creek flows west to east along the roadside towards the inlet of CV-027-38-57.06 (Structure 6). The OHWM of UNT to Goshen Creek at this location is 6.0 feet wide by 0.42 feet deep. In the southeast quadrant of the intersection, at the outlet of CV-027-38-57.06, there was no defined bed, bank, or OHWM. However, outside the investigation area a defined channel forms and continues east along the south side of the roadway embankment for CR 800 S. Field observations indicated that water from the outlet of the structure is conveyed via surface flow to the channel forming outside the investigation area and therefore is a continuation of the UNT identified in the southwest quadrant. There was no measurable upstream drainage area. The substrate is comprised of clay and silt with a channel morphology comprised of runs. This stream reach is considered to have poor quality due to lack of habitat, flow regime, and location within the roadside. UNT to Goshen Creek outlets via an unnamed agricultural ditch to Goshen Creek. Goshen Creek flows into O'Brien Creek. O'Brien Creek flows into the Mississinewa River. The Mississinewa River is navigable from its junction with the Wabash River to the Indiana/Ohio state line. Therefore, UNT to Goshen Creek is likely considered a jurisdictional resource under Section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

Stream Summary Table

Structure No.	Water Feature Name	Photos	Lat/Long	OHWM Width/ Depth	USGS Blue-line? Type?	Riffles? Pools?	Quality	Substrate	Likely Waters of U.S.?
1	UNT to Bush Creek	16, 17, 19, 20	40.221103° N -85.129455° W	3.75 ft. 0.54 ft.	No Ephemeral	No No	Poor	Silt (70%) Sand (20%) Muck (10%)	Yes
3	UNT 1 to McClain Ditch	82, 83, 85, 89, 91, 99 – 101, 107, 108	40.539794° N -85.149704° W	2.00 ft. 0.33 ft.	No Ephemeral	No No	Poor	Muck (40%) Silt (50%) Gravel (10%)	Yes
3	UNT 2 to McClain Ditch	72, 74 – 80, 84,	40.539618° N -85.14976° W	5.45 ft. 0.5 ft.	Yes Intermittent	No No	Poor	Muck (55%) Silt (30%) Sand (15%)	Yes
6	UNT to Goshen Creek	158, 163, 165, 167, 168, 170 – 173	40.323522° N -84.977442° W	6.00 ft. 0.42 ft.	No Ephemeral	No No	Poor	Clay (50%) Silt (50%)	Yes

Wetlands

The field investigations for the seven non-contiguous small structures project in Blackford, Jay, and Randolph Counties identified four separate wetlands at four of the small structures, Structures 2, 4, 6, and 7. No wetlands were identified at the other three small structures, Structures 1, 3, and 5 (A40, A42, and A44). Below is a summary of each wetland and the corresponding data points taken.

Wetland 2W1:

Wetland 2W1 is a poor quality 0.08-acre palustrine, emergent (PEM) wetland based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979) and is located along the east side of SR 1 within the investigation area for Structure 2 (A41). The wetland has formed at the base of the roadside embankment and extends beyond the limits of constructed roadside ditch towards the adjacent agricultural field. Vegetation within Wetland 2W1 is significantly disturbed due to mowing and maintenance activities. Wetland 2W1 is connected via surface flow and a likely agricultural tile to UNT 2 to McClain Ditch. McClain Ditch outlets to Beaver Creek which flows into the Salamonie River. The Salamonie River outlets into the Wabash River in Wabash County. The Wabash River is navigable from its junction with the Ohio River through Wabash County to the Wells/Adam County line. Therefore, Wetland 2W1 would be considered a jurisdictional resource under Section 404 of the Clean Water Act.

2 DP A:

2 DP A represents the wetland conditions for Wetland 2W1 at Structure 2. The data point was dominated by reed canary grass (*Phalaris arundinacea,* FACW) meeting hydrophytic vegetation. While apparent seed heads indicating dominance of reed canary grass, the species was confirmed through evaluation of the ligule and growth formation. Soils met hydric soil indicator F3 – Depleted Matrix. Two

primary and two secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A105-A107).

2 DP B:
2 DP B represents the upland conditions for Wetland 2W1. Vegetation was dominated by Kentucky bluegrass (*Poa pratensis*, FAC), corn (*Zea mays*, UPL), and red fescue (*Festuca rubra,* FACU) which fails to meet hydrophytic vegetation indicators. Soils met hydric soil indicator F3 – Depleted Matrix. One primary and no secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A108-A110).

Wetland 4W1:
Wetland 4W1 is a poor quality 0.04-acre PEM wetland based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979) and is located along the south side of SR 26 within the investigation area for Structure 4 (A43). The wetland has formed within the adjacent residential property. Wetland 4W1 would be classified as Class I state isolated wetland under the Indiana Department of Environmental Management (IDEM) State Isolated Wetlands Program due to the level of disturbance through human activity, minimal support of wildlife, aquatic habitat, and hydrologic function as per IC 13-11-2-25.8(1)(B). Wetland 4W1 has been determined to meet the definition of a state "exempt isolated wetland" under IC 13-11-2-74.5(2)(D) because it represents an incidental feature. INDOT acknowledges that the wetland would likely not meet the definition of a Waters of the U.S. However, INDOT is requesting that the USACE take jurisdiction of the wetland.

4 DP A:
4 DP A represents the wetland conditions for Wetland 4W1 at Structure 4. The data point was dominated by silky dogwood (*Cornus amomum*, FACW) and reed canary grass (*Phalaris arundinacea,* FACW) meeting hydrophytic vegetation. Soils met hydric soil indicator F3 – Depleted Matrix. One primary and one secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A111-A113).

4 DP B:
4 DP B represents the upland conditions for Wetland 4W1. Vegetation was dominated by silky dogwood (*Cornus amomum*, FACW), white clover (*Trifolium repens*, FACU), common dandelion (*Taraxacum officinale*, FACU), and yellow foxtail (*Setaria pumila*, FAC) which fails to meet hydrophytic vegetation indicators. Soils met hydric soil indicators A11 – Depleted Below Dark Surface, F3 – Depleted Matrix, and F6 – Redox Dark Surface. No primary and no secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A114-A116).

Wetland 6W1:
Wetland 6W1 is a poor quality 0.02-acre PEM wetland based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979) and is located in the northeast quadrant of the intersection for US 27 and County Road 800 S in the investigation area for Structure 6 (A45). The wetland has formed at the outlet of a small structure and extends along the base of the roadside embankment for US 27 and CR 800 S. Wetland 6W1 is connected via surface flow and a roadside ditch outside the investigation area to a UNT to Goshen Creek. Goshen Creek flows into O'Brien Creek. O'Brien Creek flows into the Mississinewa River. The Mississinewa River is navigable from its junction

with the Wabash River to the Indiana/Ohio state line. Therefore, Wetland 6W1 would be considered a jurisdictional resource under Section 404 of the Clean Water Act.

6 DP A:
6 DP A represents the wetland conditions for Wetland 6W1 at Structure 6. The data point was dominated by reed canary grass (*Phalaris arundinacea,* FACW) and rice cut grass (*Leersia oryzoides,* OBL) meeting hydrophytic vegetation. Soils met hydric soil indicators A10 – 2cm Muck and F3 – Depleted Matrix. Three primary and one secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A117-A119).

6 DP B:
6 DP B represents the upland conditions for Wetland 6W1. Vegetation was dominated by tall fescue (*Schedonorus arundinaceus*, FACU) which fails to meet hydrophytic vegetation indicators. Soils met hydric soil indicator F3 – Depleted Matrix. No primary and no secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A120-A122).

Wetland 7W1:

Wetland 7W1 is a poor quality 0.02-acre PEM wetland based on Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979) and is located along the west side of US 27 within the investigation area for Structure 7 (A46). This wetland has formed at the base of the roadside embankment and receives drainage from the roadway and agricultural field. Wetland 7W1 would be classified as Class I state isolated wetland under the IDEM State Isolated Wetlands Program due to the level of disturbance through human activity, minimal support of wildlife, aquatic habitat, and hydrologic function as per IC 13-11-2-25.8(1)(B). Wetland 7W1 has been determined to meet the definition of a state “exempt isolated wetland” under IC 13-11-2-74.5(2)(D) because it represents an incidental feature. INDOT acknowledges that the wetland would likely not meet the definition of a Waters of the U.S. However, INDOT is requesting that the USACE take jurisdiction of the wetland.

7 DP A:
7 DP A represents the wetland conditions for Wetland 7W1 at Structure 7. The data point was dominated by reed canary grass (*Phalaris arundinacea,* FACW) meeting hydrophytic vegetation. Soils met hydric soil indicator F3 – Depleted Matrix. Two primary and one secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A123-A125).

7 DP B:
7 DP B represents the upland conditions for Wetland 7W1. Vegetation was dominated by tall fescue (*Schedonorus arundinaceus*, FACU) which fails to meet hydrophytic vegetation indicators. Soils met hydric soil indicator F3 – Depleted Matrix. No primary and no secondary indicators of wetland hydrology were present. Full detailed data point information can be found on the data sheet (A126-A128).

Data Point Summary Table

Data Point	Vegetation	Soils	Hydrology	Wetland
2 DP A	Yes	Yes	Yes	Yes

Data Point	Vegetation	Soils	Hydrology	Wetland
2 DP B	No	Yes	Yes	No
4 DP A	Yes	Yes	Yes	Yes
4 DP B	No	Yes	No	No
6 DP A	Yes	Yes	Yes	Yes
6 DP B	No	Yes	No	No
7 DP A	Yes	Yes	Yes	Yes
7 DP B	No	Yes	No	No

Wetland Summary Table

Structure No.	Wetland Name	Photos	Lat/Long	Type	Total Area (acres)	Quality	Likely Waters of U.S.?
Structure 2	Wetland 2W1	38 – 41, 46 – 53, 60, 61, 63 – 67,	40.536496° N -85.149228° W	PEM	0.08	Poor	Yes
Structure 4	Wetland 4W1	119, 124, 126, 129 – 131, 133	40.449818° N -85.243789° W	PEM	0.04	Poor	Yes*
Structure 6	Wetland 6W1	175, 179 – 181, 183	40.323716° N -84.976804° W	PEM	0.02	Poor	Yes
Structure 7	Wetland 7W1	190, 196 – 200, 202, 204	40.384838° N -84.978035° W	PEM	0.02	Poor	Yes*

* The Indiana Department of Transportation - Ecology and Waterway Permitting Office (EWPO) may request that USACE take jurisdiction of this resource for purposes of permitting

Open Water

Open water features were not identified within the investigation area.

Roadside Ditch

Four non-jurisdictional roadside ditch features and one non-jurisdictional concrete lined ditch were identified within the investigation areas (A40 through A46).

RSD 1: RSD 1 is located within the investigation area for Structure 1 (A40). RSD 1 conveys roadside drainage from SR 1 north into the adjacent agricultural field. RSD 1 lacks a bed, bank, and a defined OHWM and is not a captured stream. Therefore, RSD 1 would be considered non-jurisdictional.

RSD 2: RSD 2 is located within the investigation area for Structure 3 (A42). RSD 2 conveys roadside drainage south along the east side of SR 1 towards CV-001-038-110.93 (Structure 3). RSD 3 lacks a bed, bank, and a defined OHWM and is not a captured stream. Therefore, RSD 2 would be considered non-jurisdictional.

RSD 3: RSD 3 is also located within the investigation area for Structure 3 (A42). RSD 3 conveys drainage south and west along the adjacent agricultural field on the east side of SR 1 towards CV-001-038-110.93 (Structure 3). RSD 3 lacks a bed, bank, and a defined OHWM and is not a captured stream. Therefore, RSD 3 would be considered non-jurisdictional.

RSD 4: RSD 4 is located within the investigation area for Structure 5 (A44). RSD 4 conveys drainage south along the east side of US 27 towards structure CV-027-68-55.25 (Structure 5). RSD 4 lacks a bed, bank, and a defined OHWM and is not a captured stream. Therefore, RSD 4 would be considered non-jurisdictional.

Concrete Lined Ditch: One concrete lined ditch is located within the investigation area for Structure 5 (A44). The concrete lined ditch conveys drainage north along the east side of US 27 towards CV-027-68-55.25 (Structure 5). This concrete lined ditch is not a captured stream and therefore would not be considered jurisdictional.

Conclusions

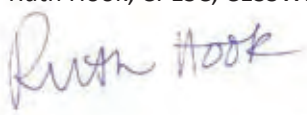
The field investigations for the seven non-contiguous small structures project in Blackford, Jay, and Randolph Counties on October 4th, 6th, and 15th, 2021 identified four streams, four wetlands, four non-jurisdictional roadside ditches, and one non-jurisdictional concrete lined ditch. Streams are present at three of the small structures, Structures 1, 3, and 6 (A40, A42, and A45). Wetlands were identified at four of the small structures, Structures 2, 4, 6, and 7 (A41, A43, A45, and A46). All four streams would be considered jurisdictional due to their connectivity to traditionally navigable waterways (TNWs). Two wetlands, 2W1 and 6W1 (A41 and A45), would also be considered jurisdictional due to their connectivity to TNWs. Two wetlands, 4W1 and 7W1 (A43 and A46), would be classified as Class I state isolated wetlands under the IDEM's State Isolated Wetlands Program due to the level of disturbance through human activity, minimal support of wildlife, aquatic habitat, and hydrologic function as per IC 13-11-2-25.8(1)(B). Wetlands 4W1 and 7W1 have been determined to meet the definition of a state "exempt isolated wetland" under IC 13-11-2-74.5(2)(D) because it represents an incidental feature. INDOT acknowledges that these wetlands would likely not meet the definition of a Waters of the U.S.; however, INDOT is requesting that the USACE take jurisdiction of these wetlands.

Every effort should be taken to avoid and minimize impacts to stream and wetland features. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

All drainage structures within the investigation areas for the seven non-contiguous small structures were examined during field investigations for the presence of bats and were found to show no direct or indirect signs of occupation.

Acknowledgement
This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.

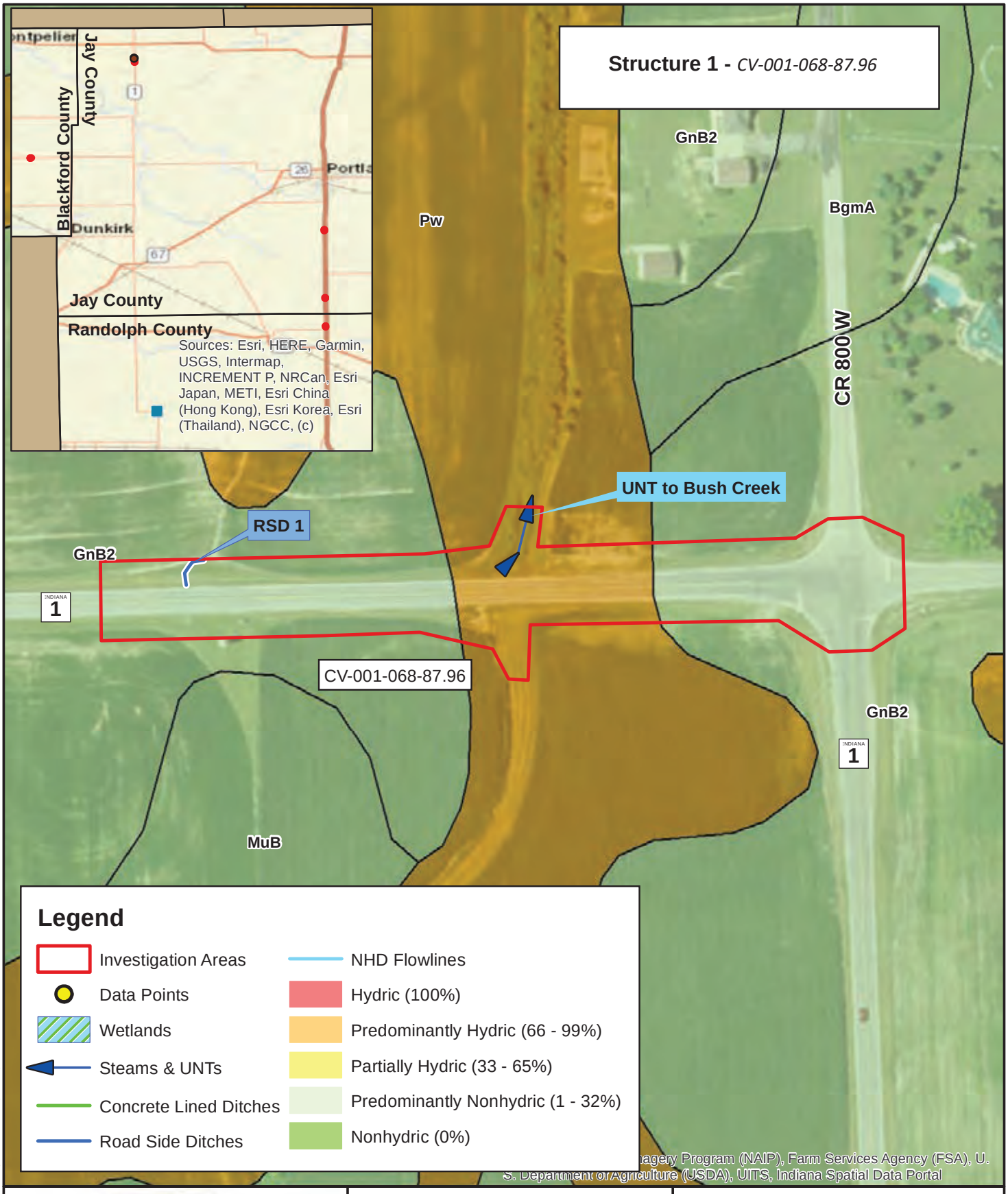
Ruth Hook, CPESC, CESSWI



Environmental Lead – Northern Indiana
Lochmueller Group, Inc.

Preparers

Lochmueller Group, Inc. Staff	Position	Contributing Effort
Ruth Hook, CPESC, CESSWI	Environmental Team Lead – Northern Indiana	Field Data Collection, Report Preparation
Robert Winebrinner	Environmental Project Manager	Field Data Collection
Carson Hoogewerf	Environmental Specialist	Field Data Collection



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3502 Woodview Trace, Suite 150
Indianapolis, Indiana 46268
PHONE: 317.222.3880
TOLL FREE: 888.830.6977

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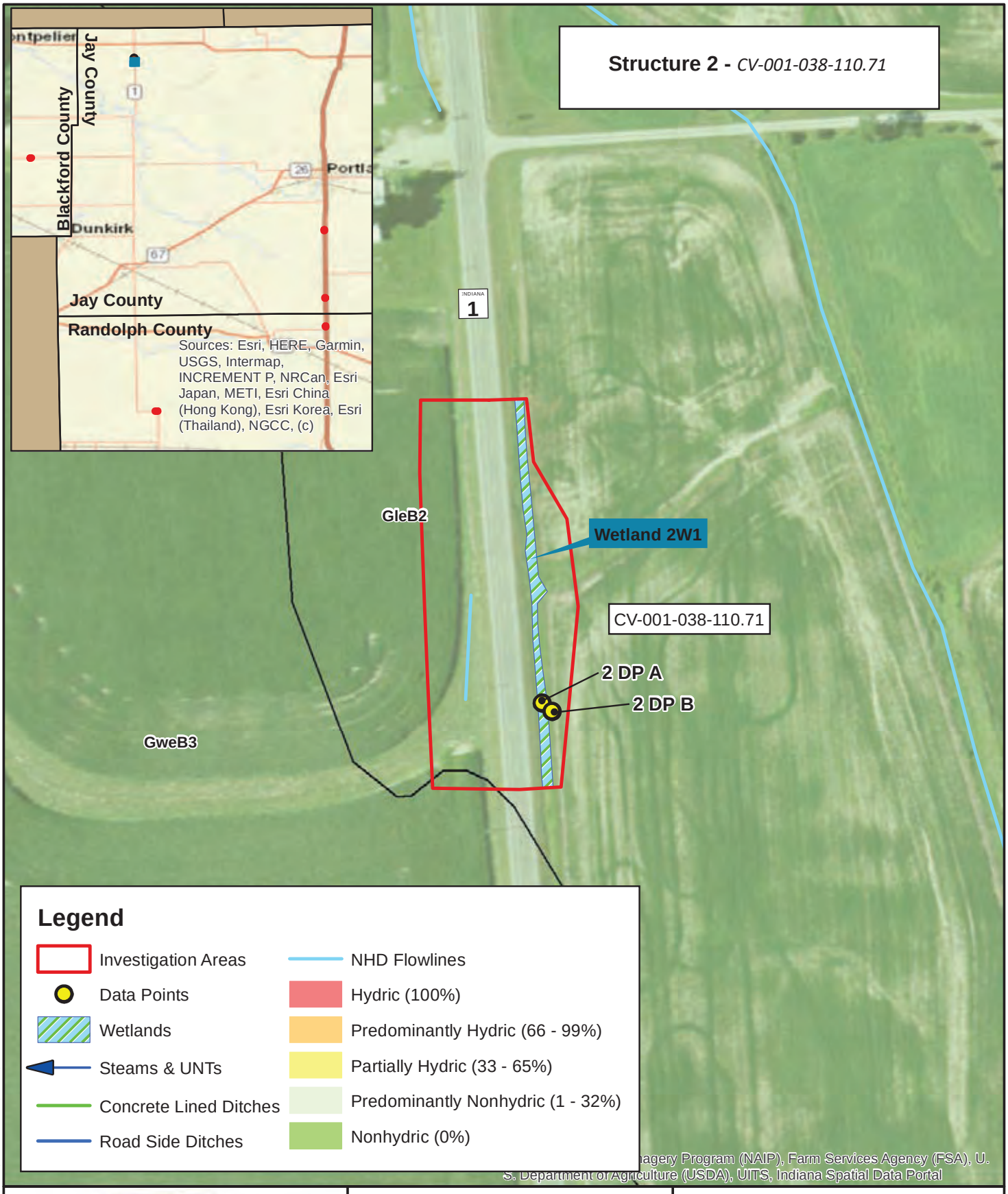
Hydric Soils Map
Des. No. 1902734
Waters of the U.S. Report

0 62.5 125 Feet

N

Counties: Blackford, Jay, & Randolph
Townships: Monroe, Ward, State: Indiana
Penn, Pike, & Jackson

Small Structures Replacement Project
Structures on SR 26, SR 1, and US 27
Created:3/9/2022, R. Hook



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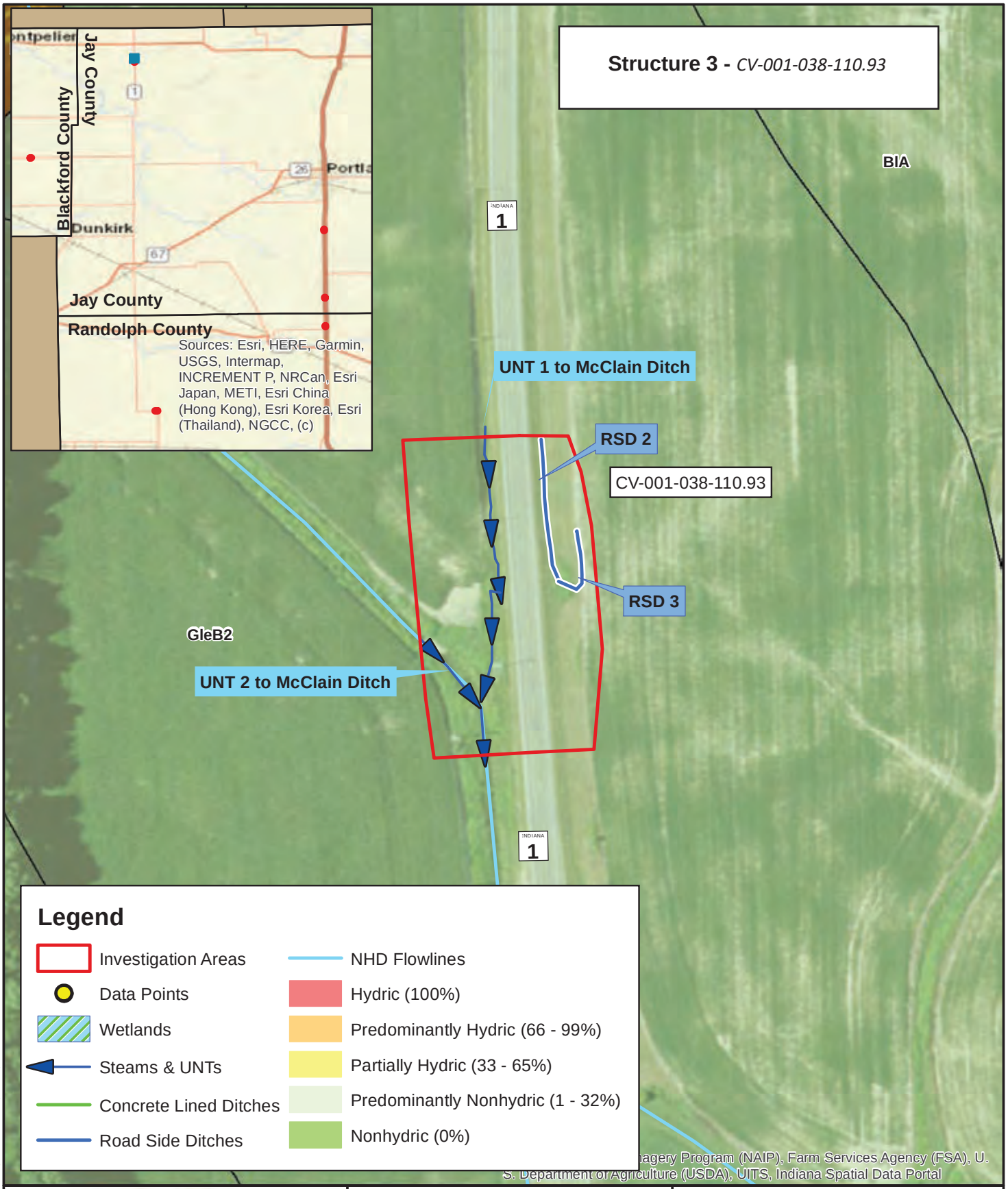

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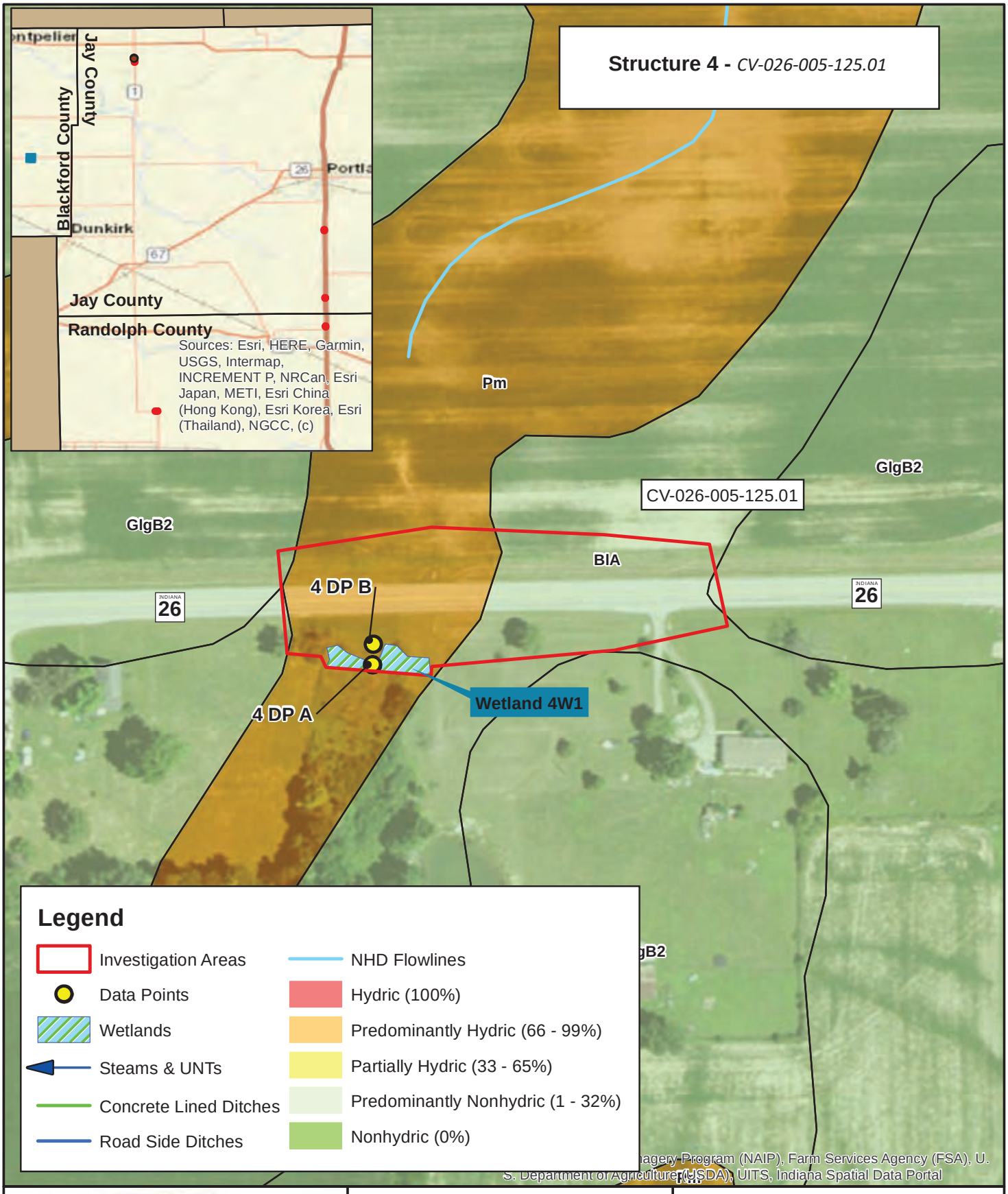

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3502 Woodview Trace, Suite 150
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TOLL FREE: 888.830.6977

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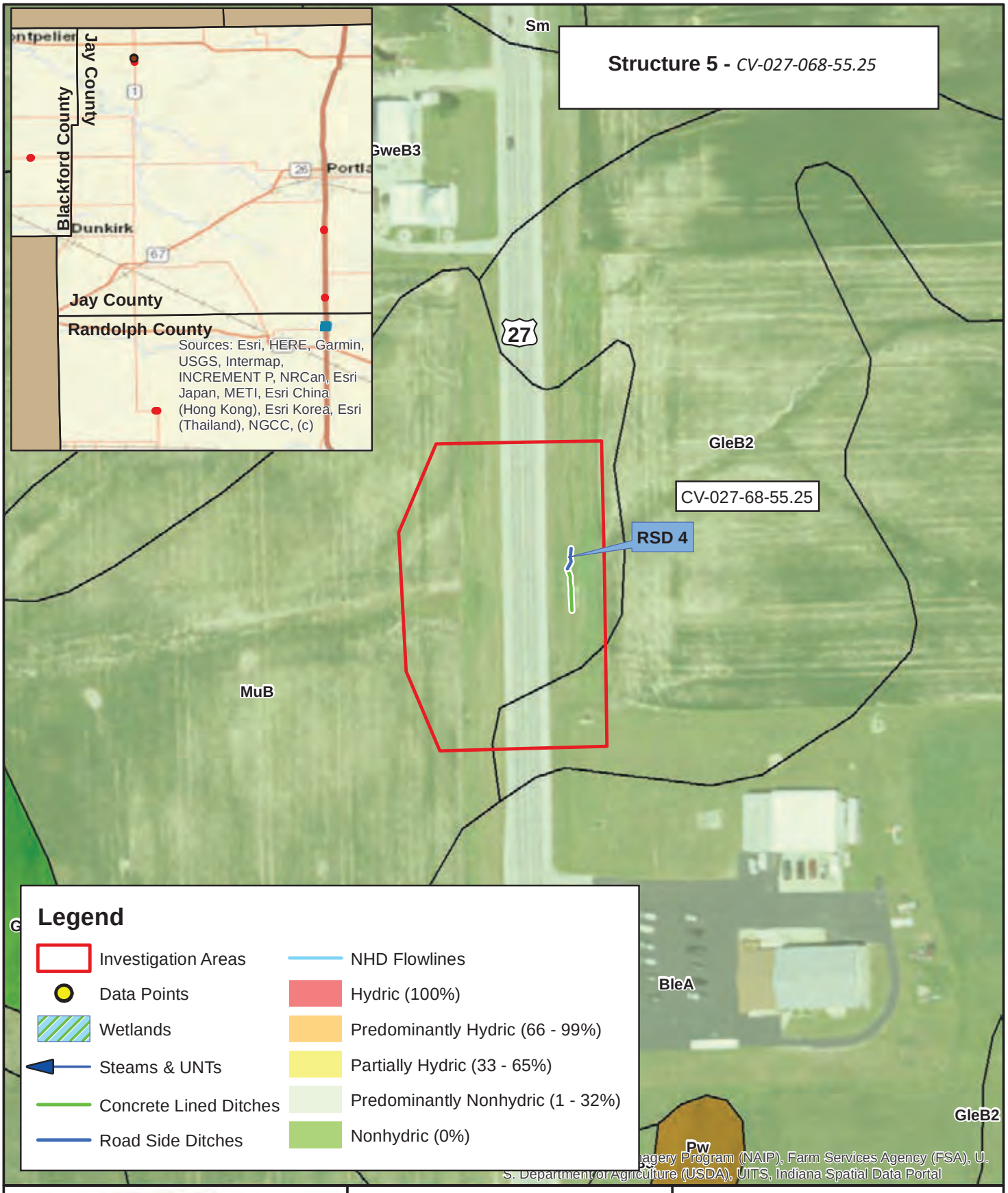

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3502 Woodview Trace, Suite 150
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TOLL FREE: 888.830.6997

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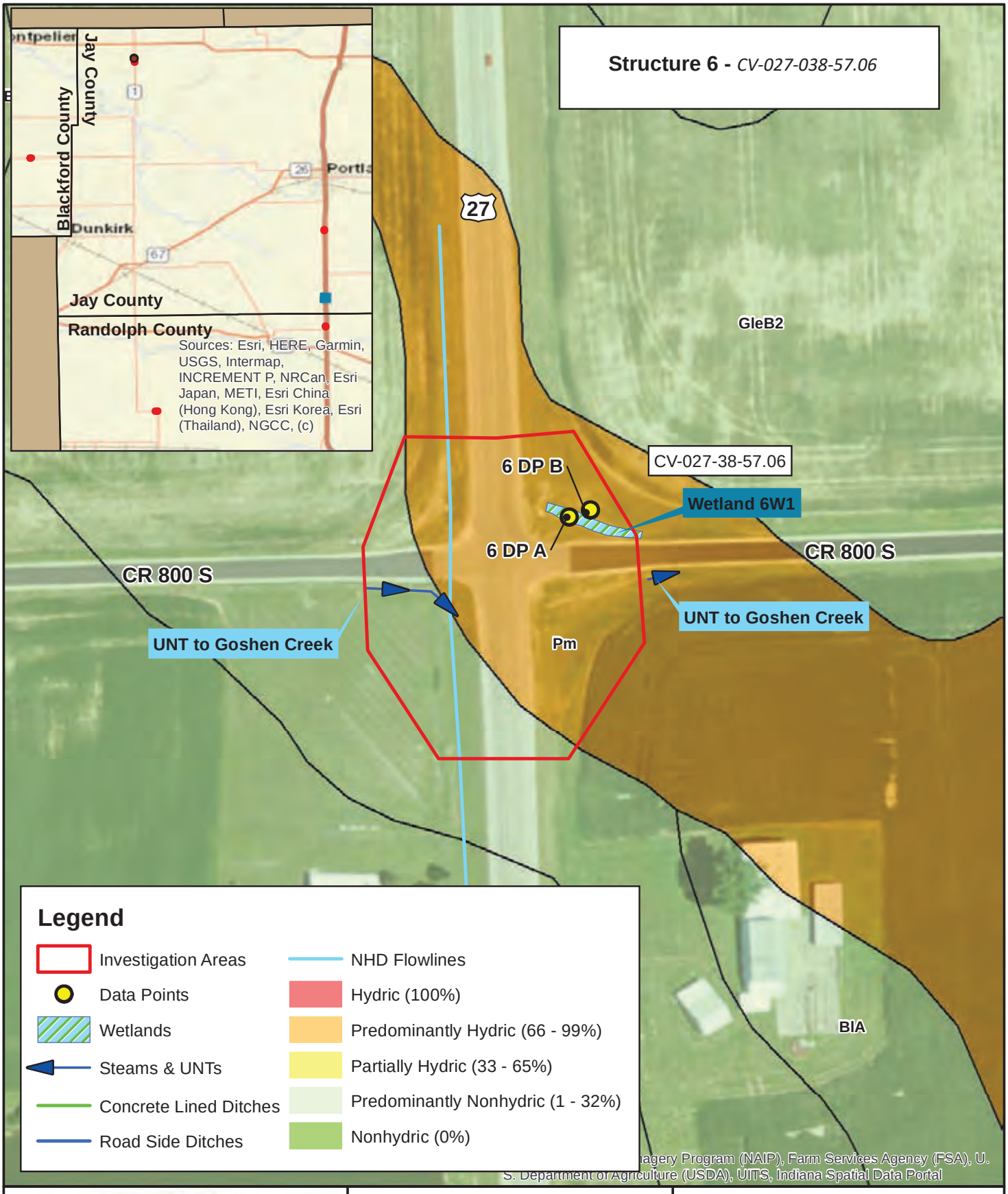

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Hydric Soils Map
Des. No. 1902734
Waters of the U.S. Report

0 62.5 125 Feet

N

Counties: Blackford, Jay, & Randolph
Townships: Monroe, Ward, State: Indiana
Penn, Pike, & Jackson

Small Structures Replacement Project
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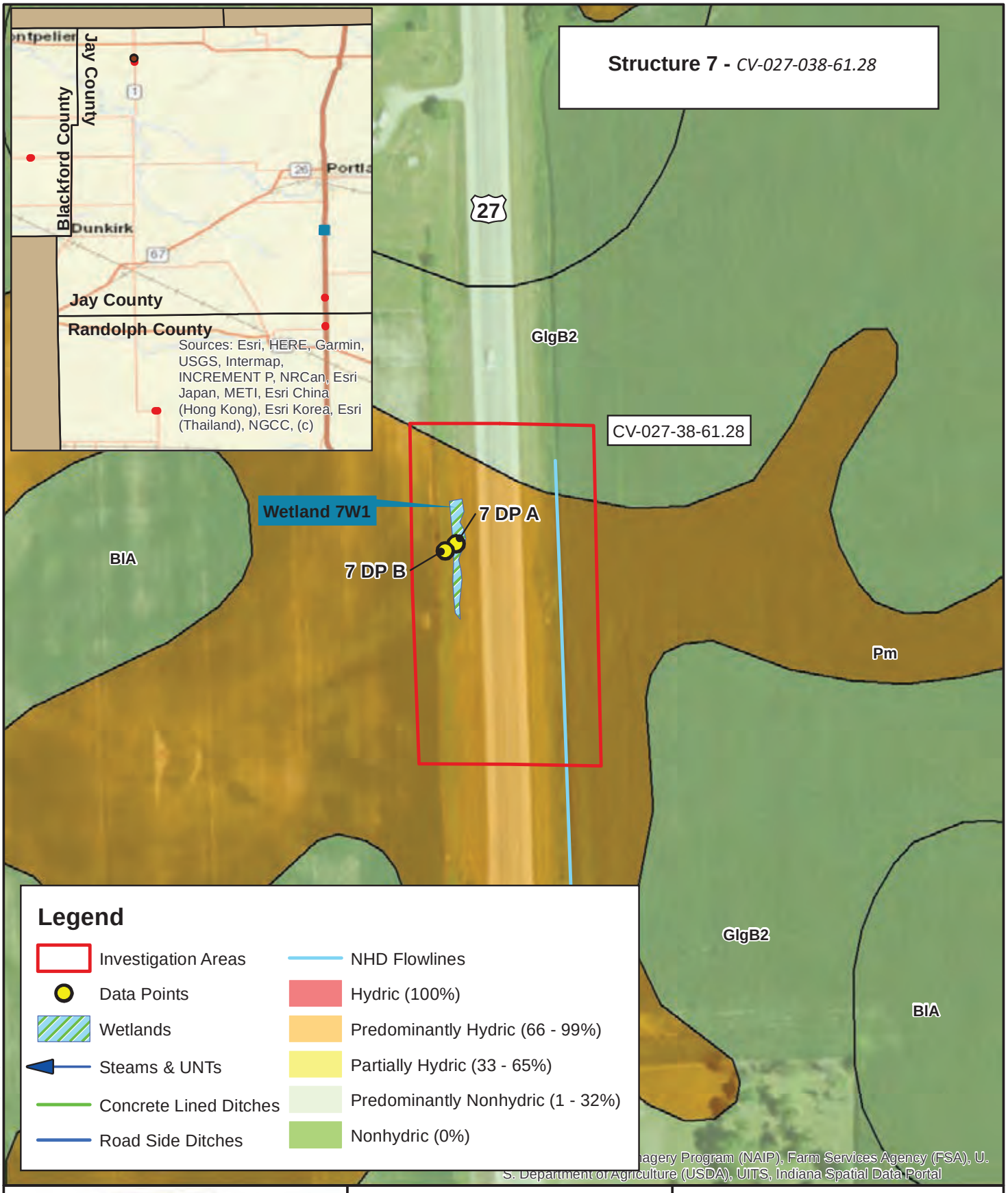

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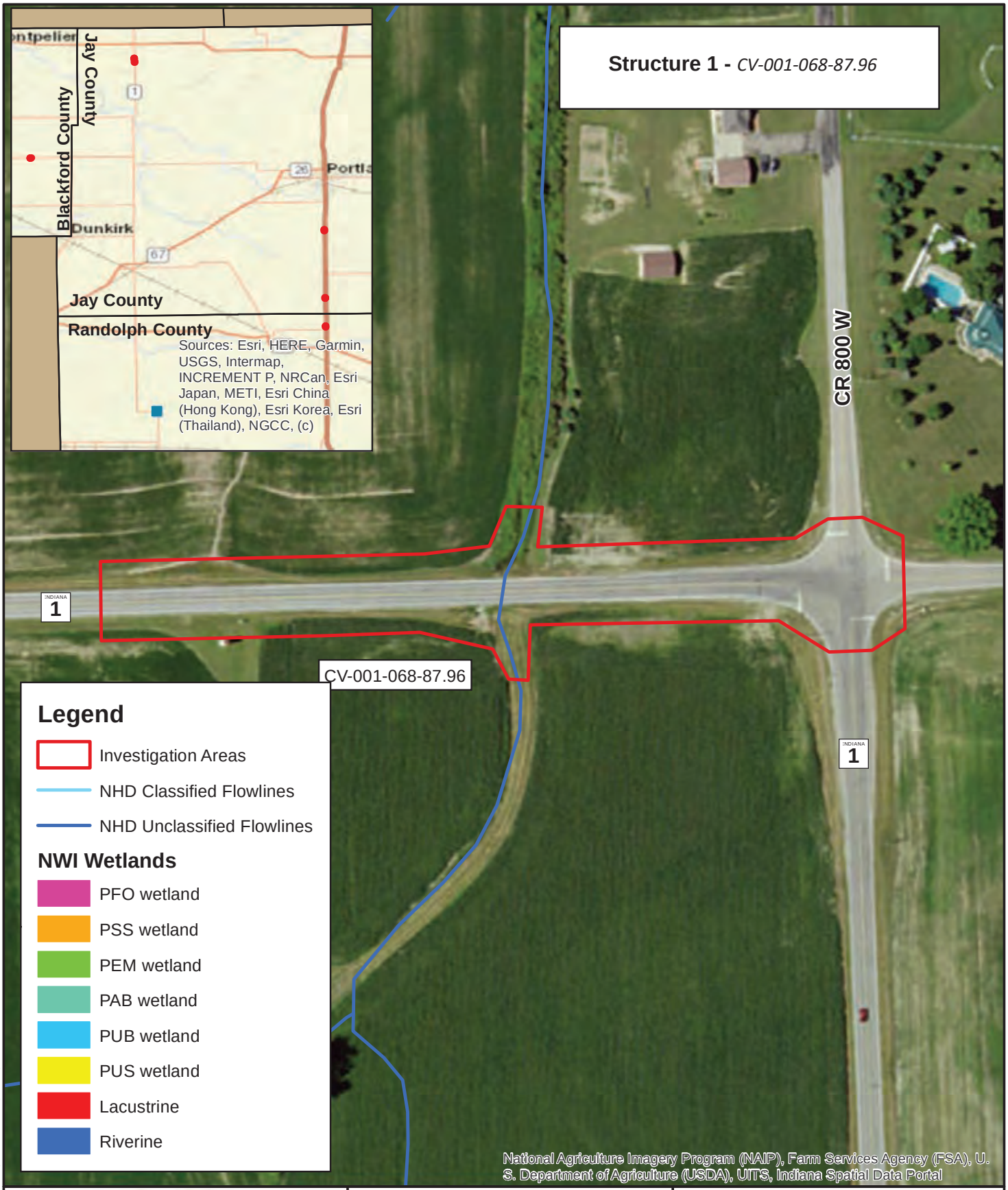

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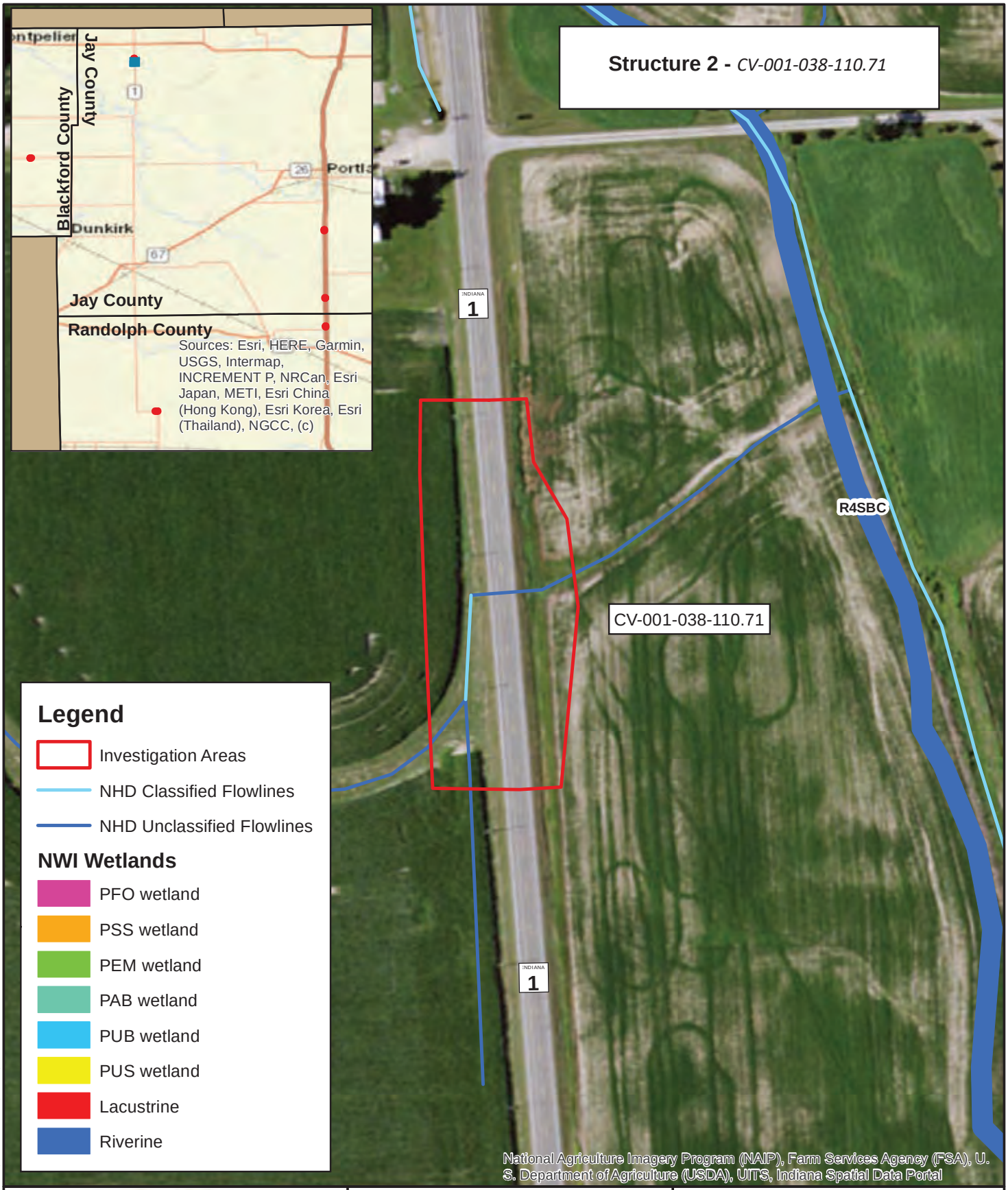

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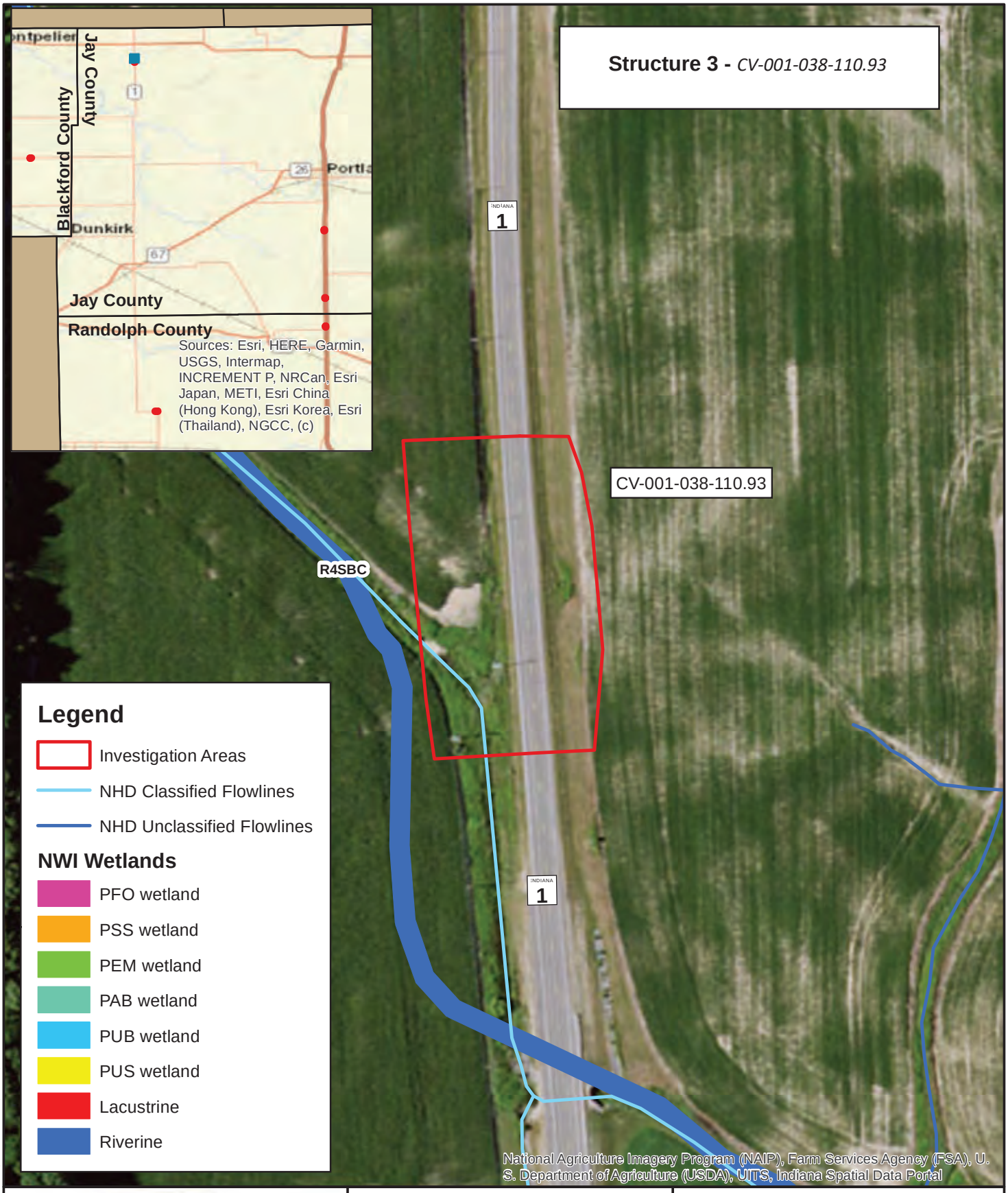

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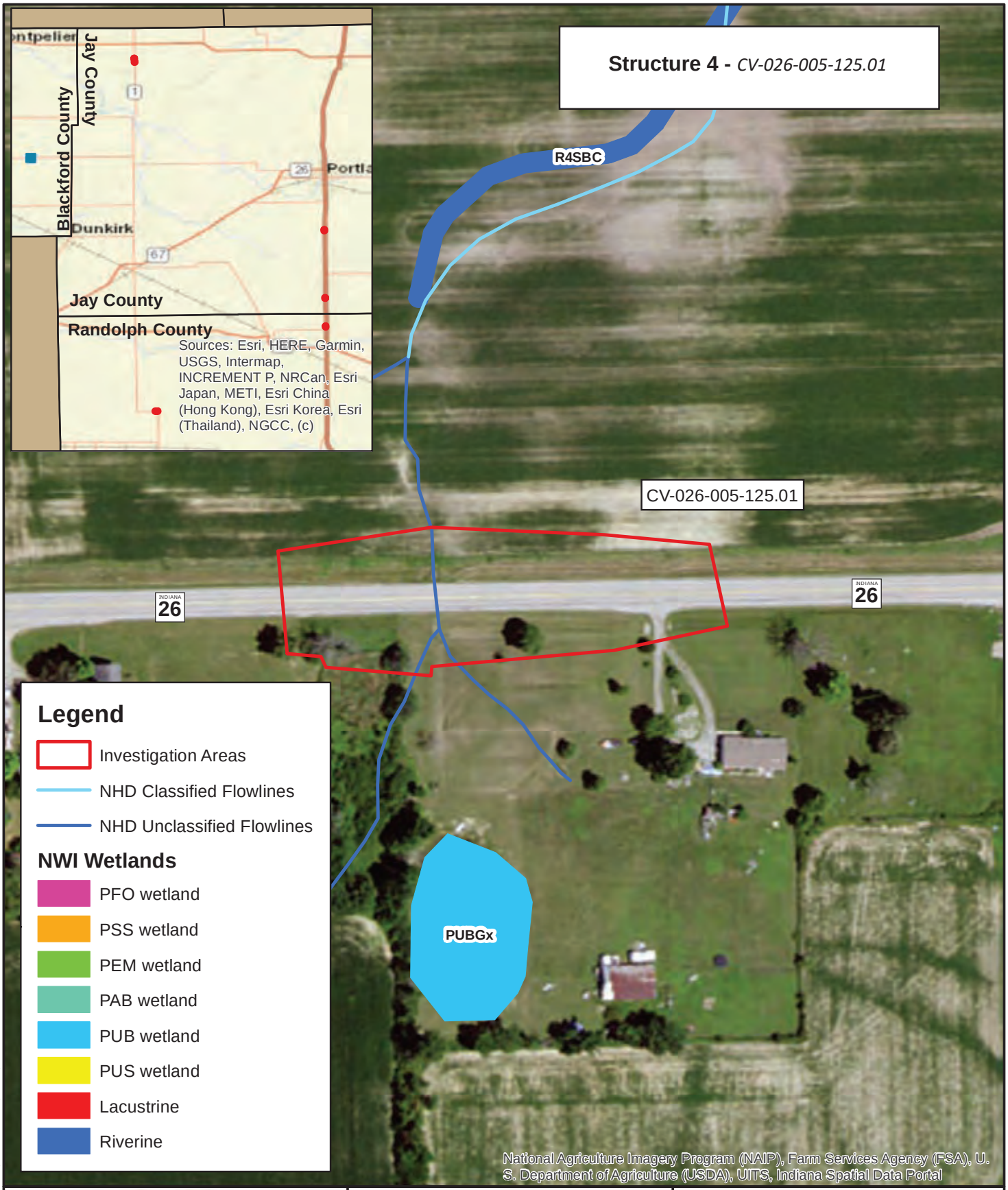

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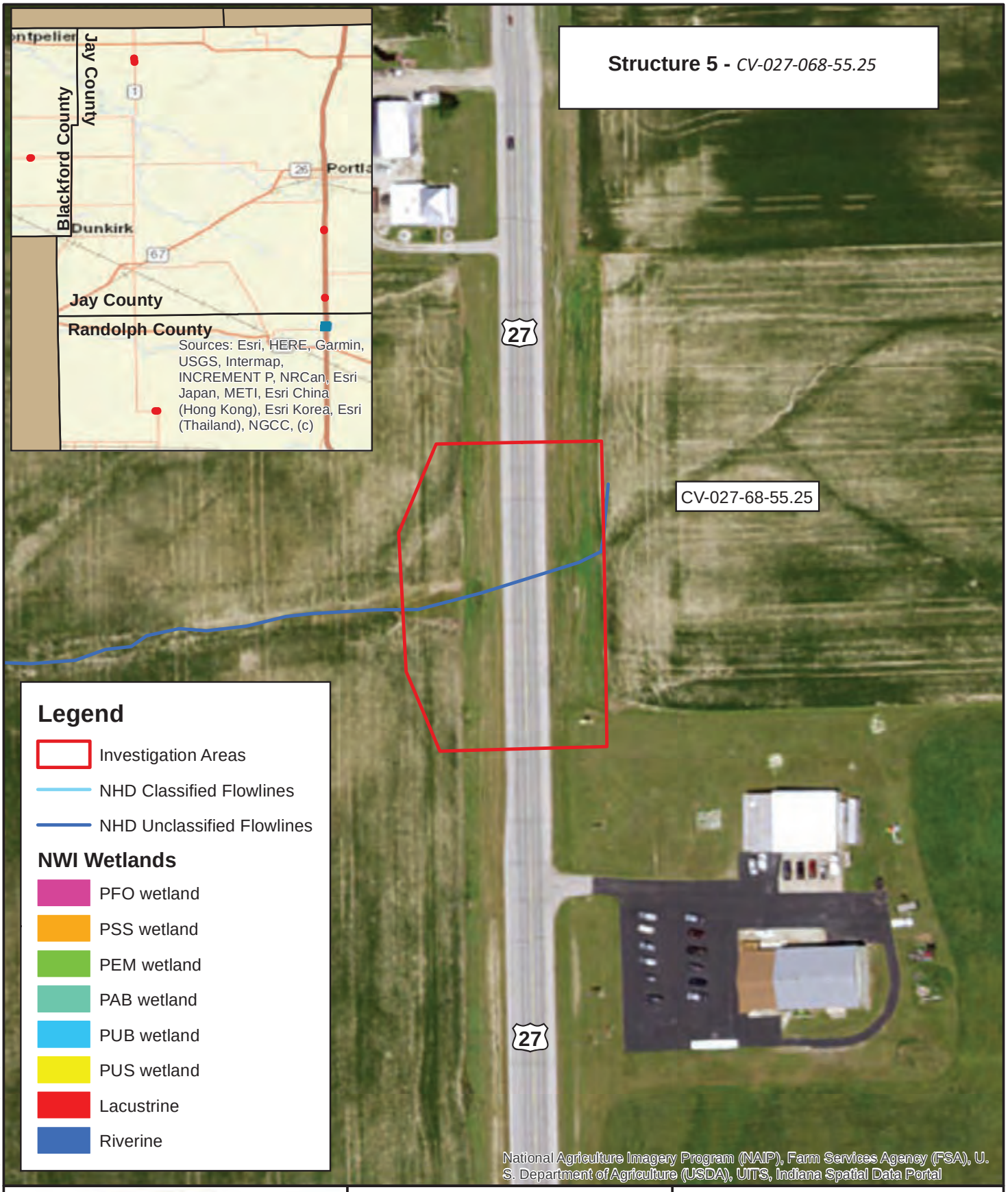

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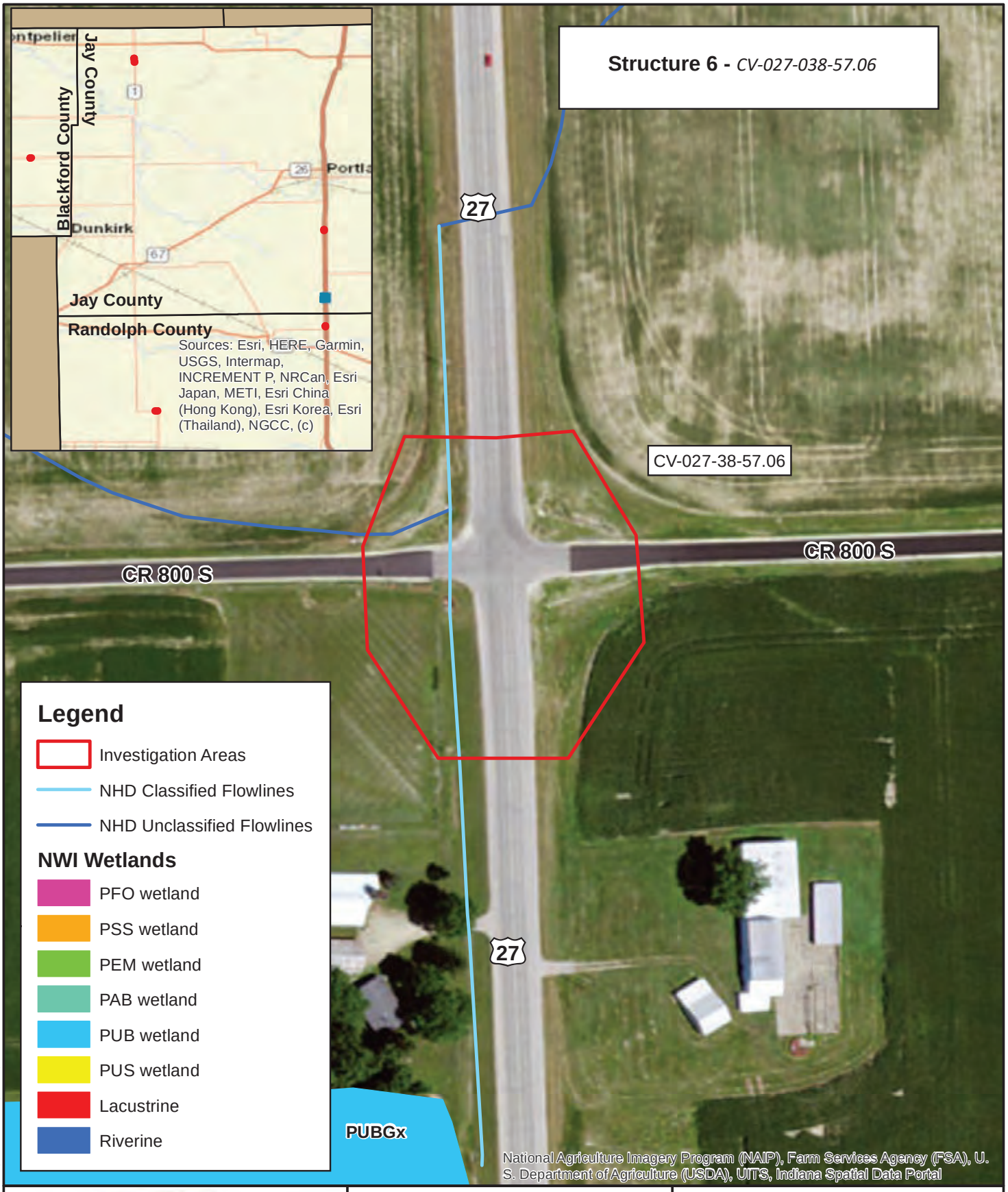

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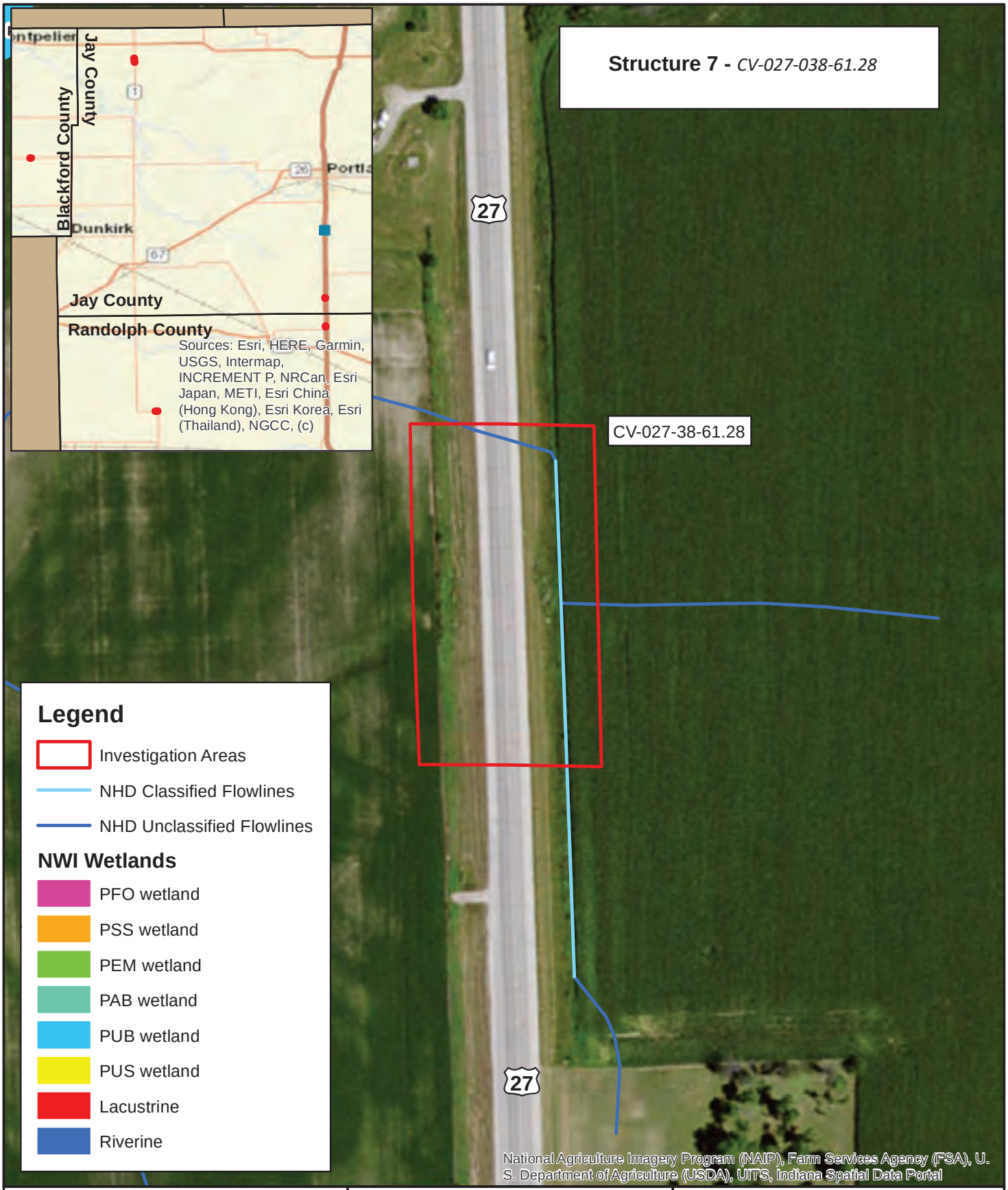

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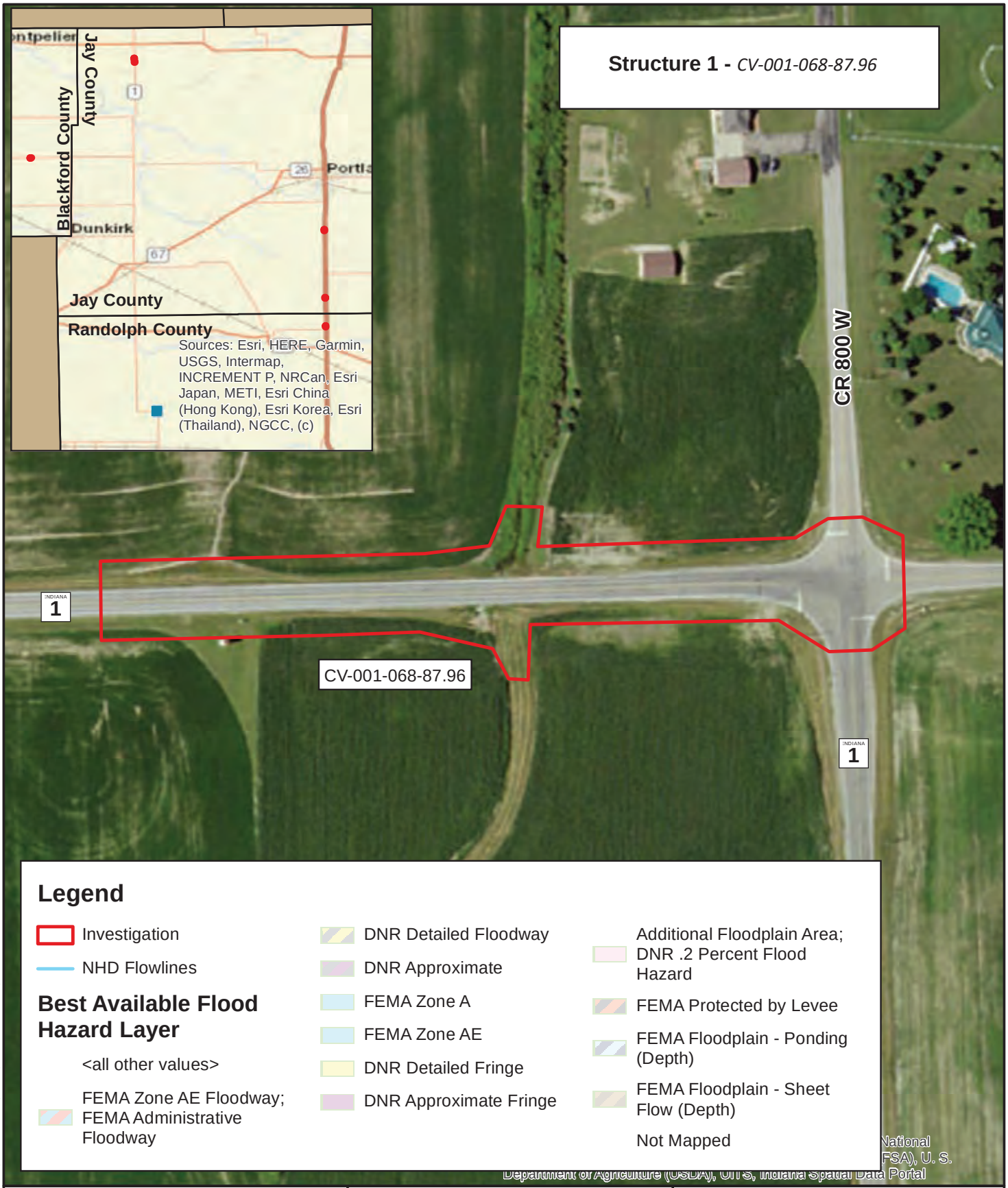

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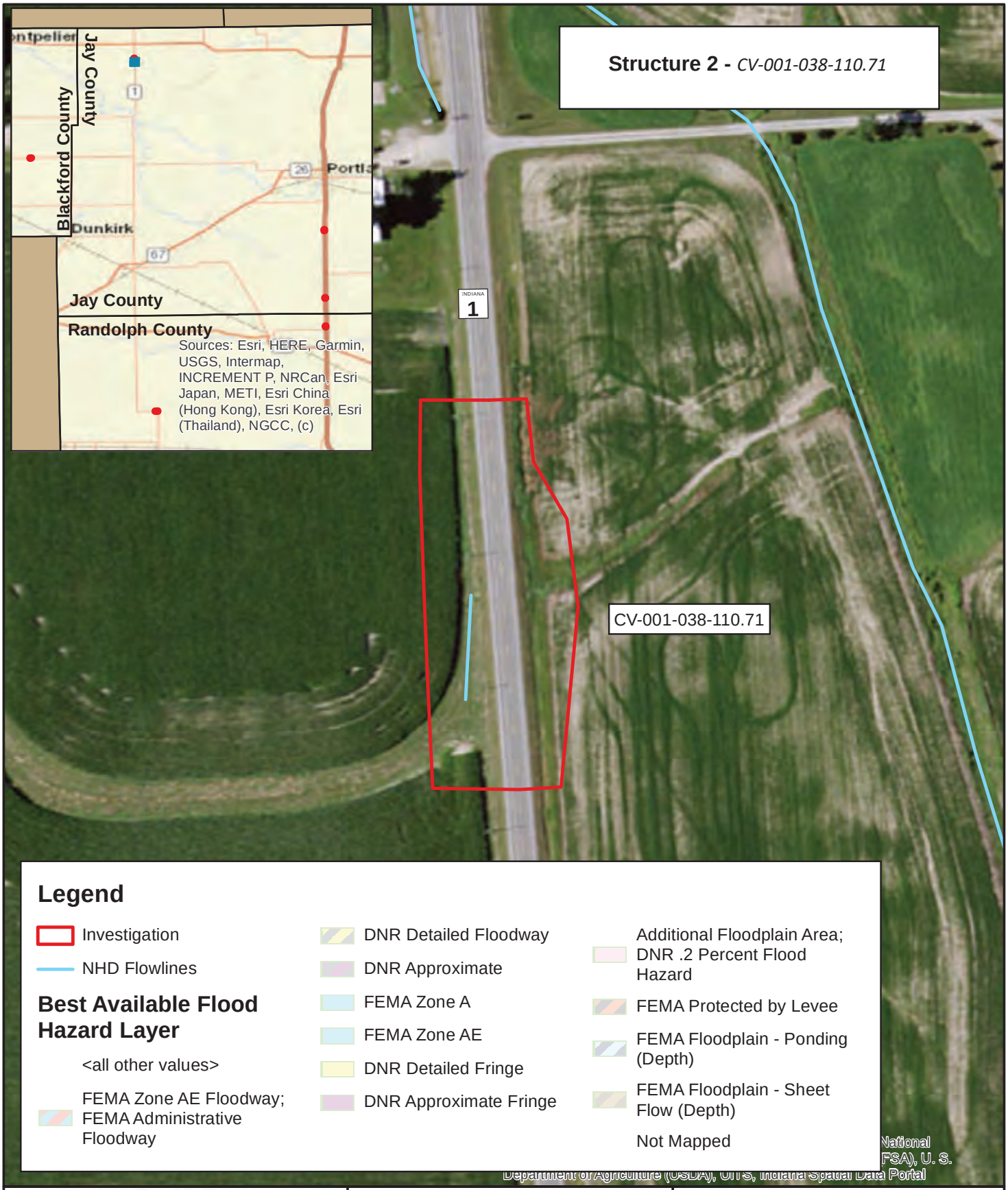

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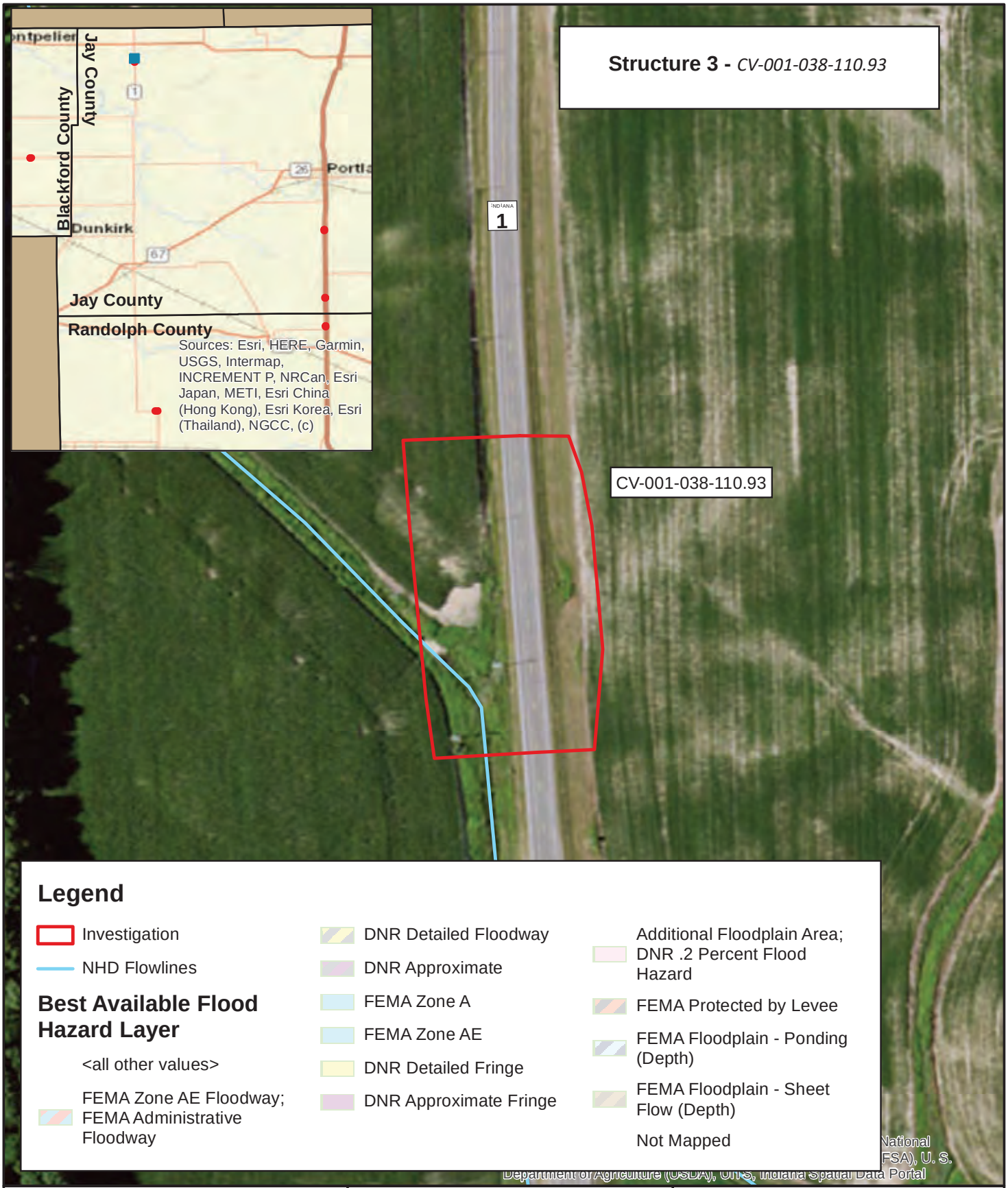

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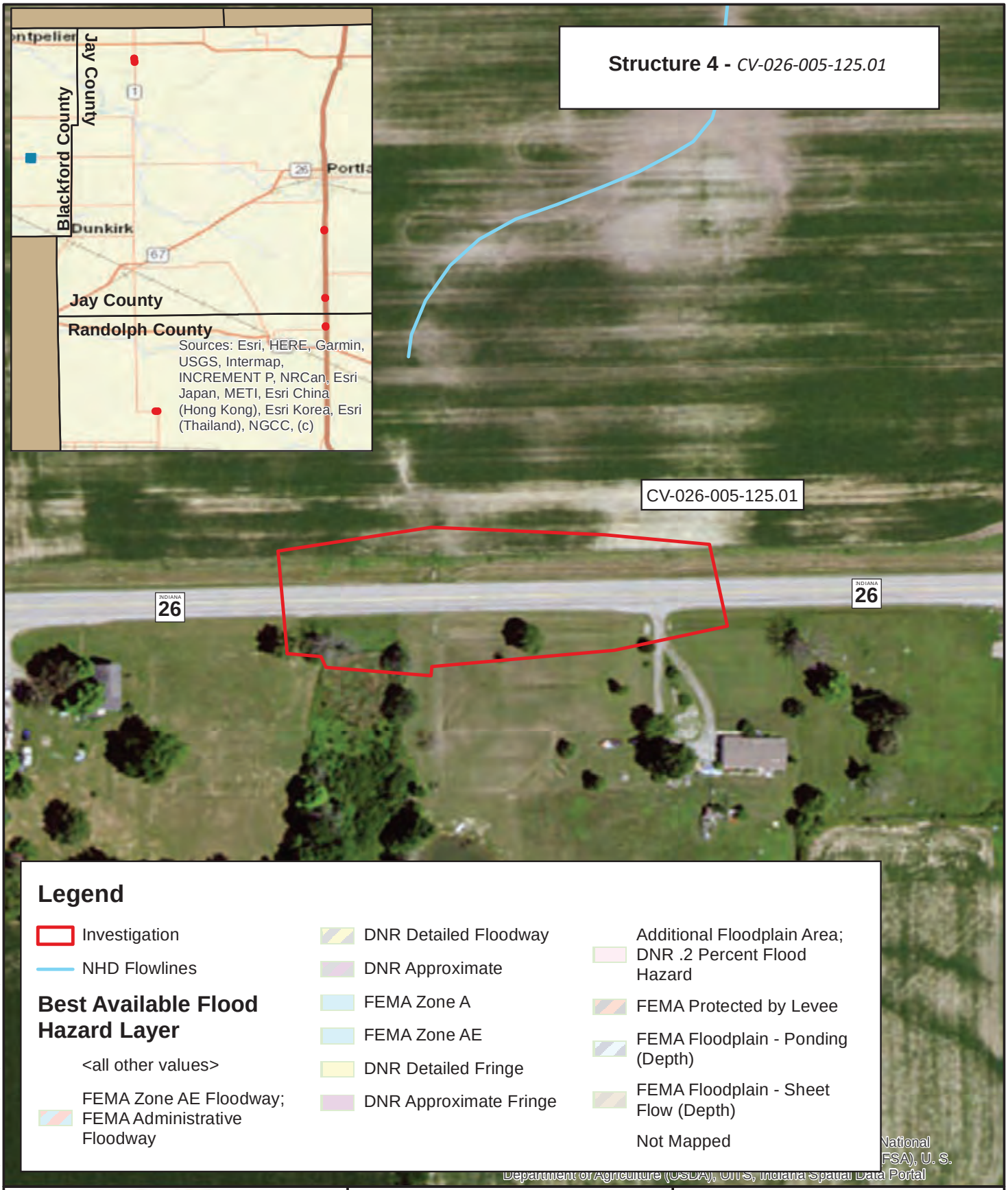

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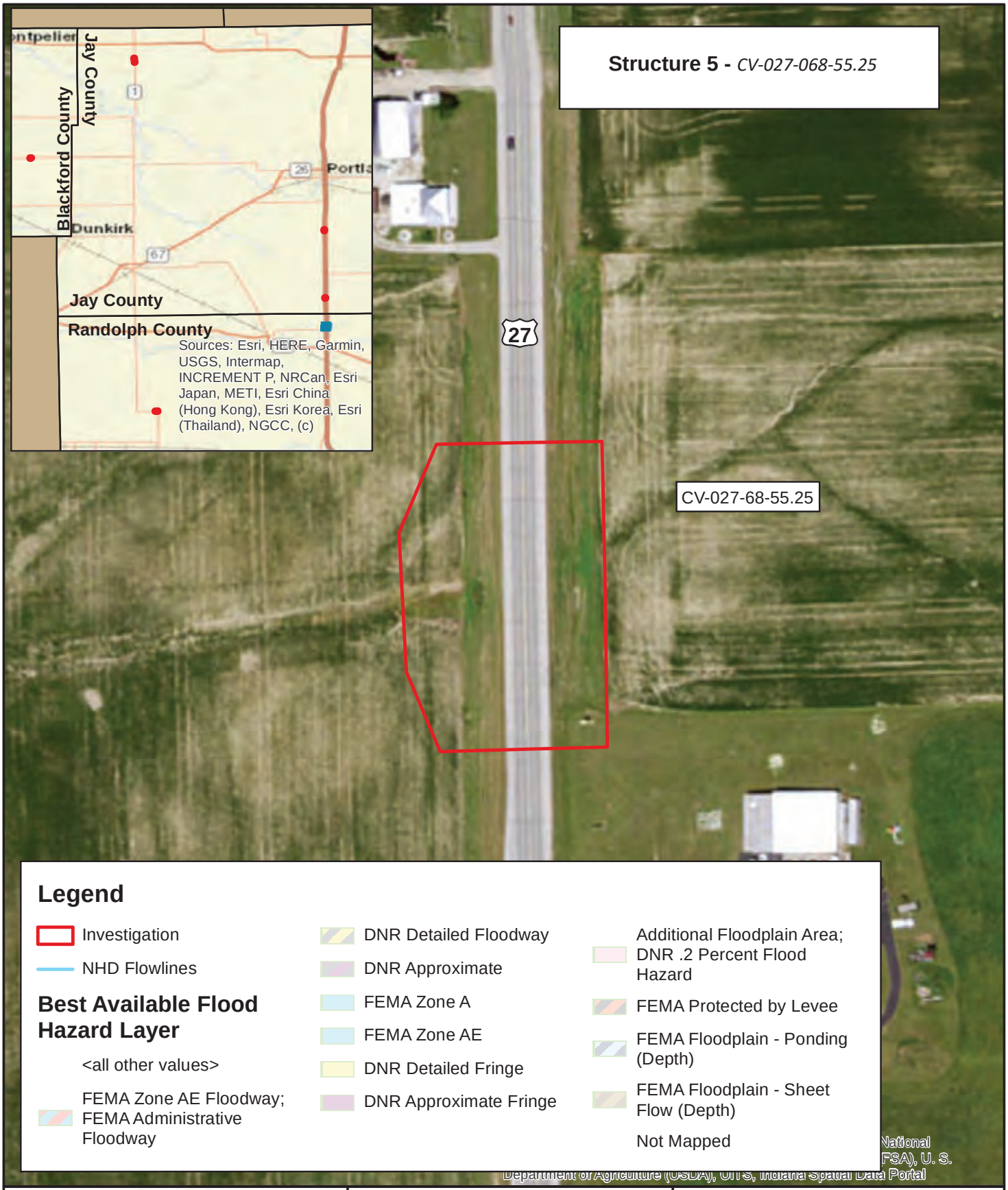

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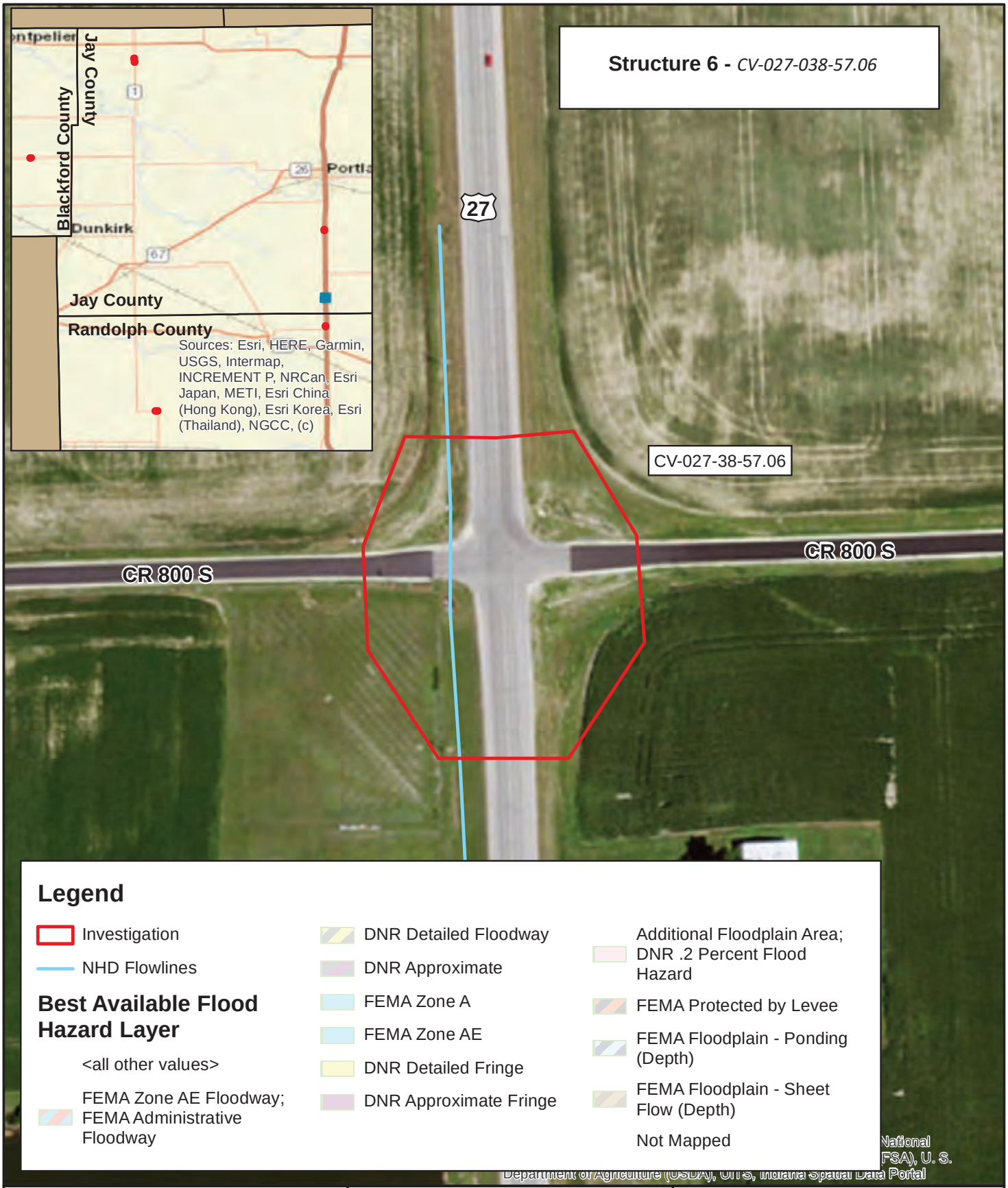

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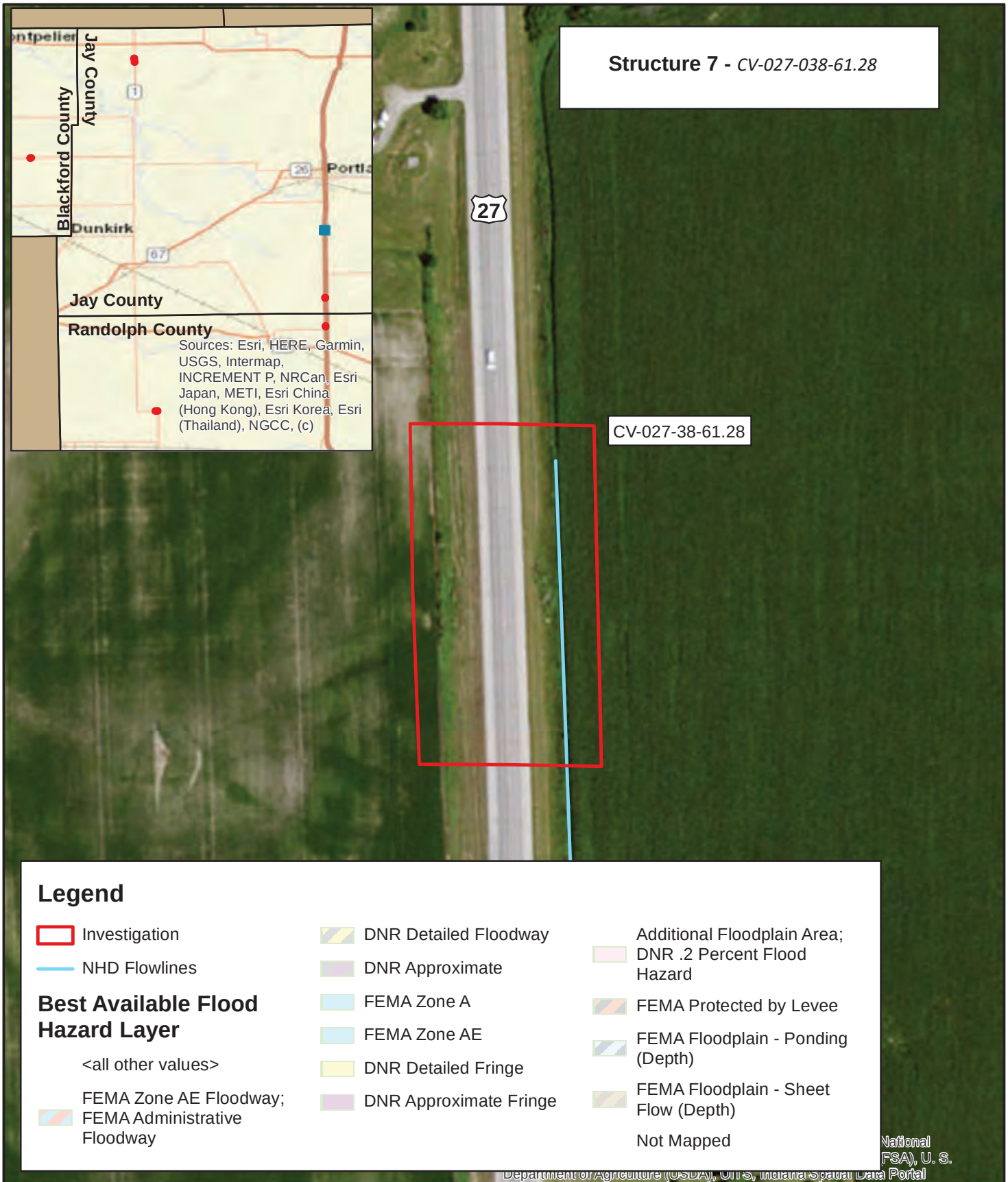

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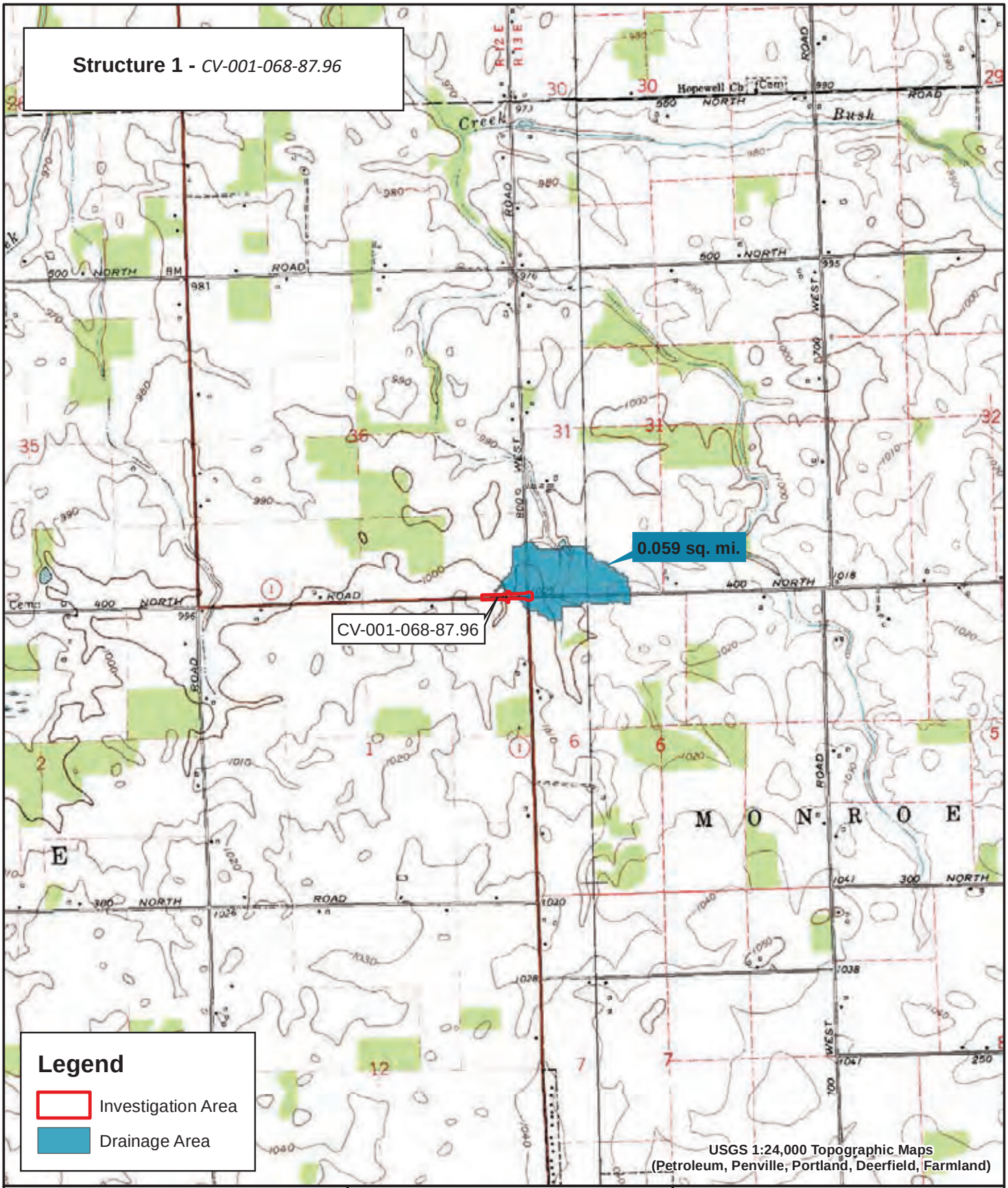

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StreamStats Maps
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0 1,000 2,000
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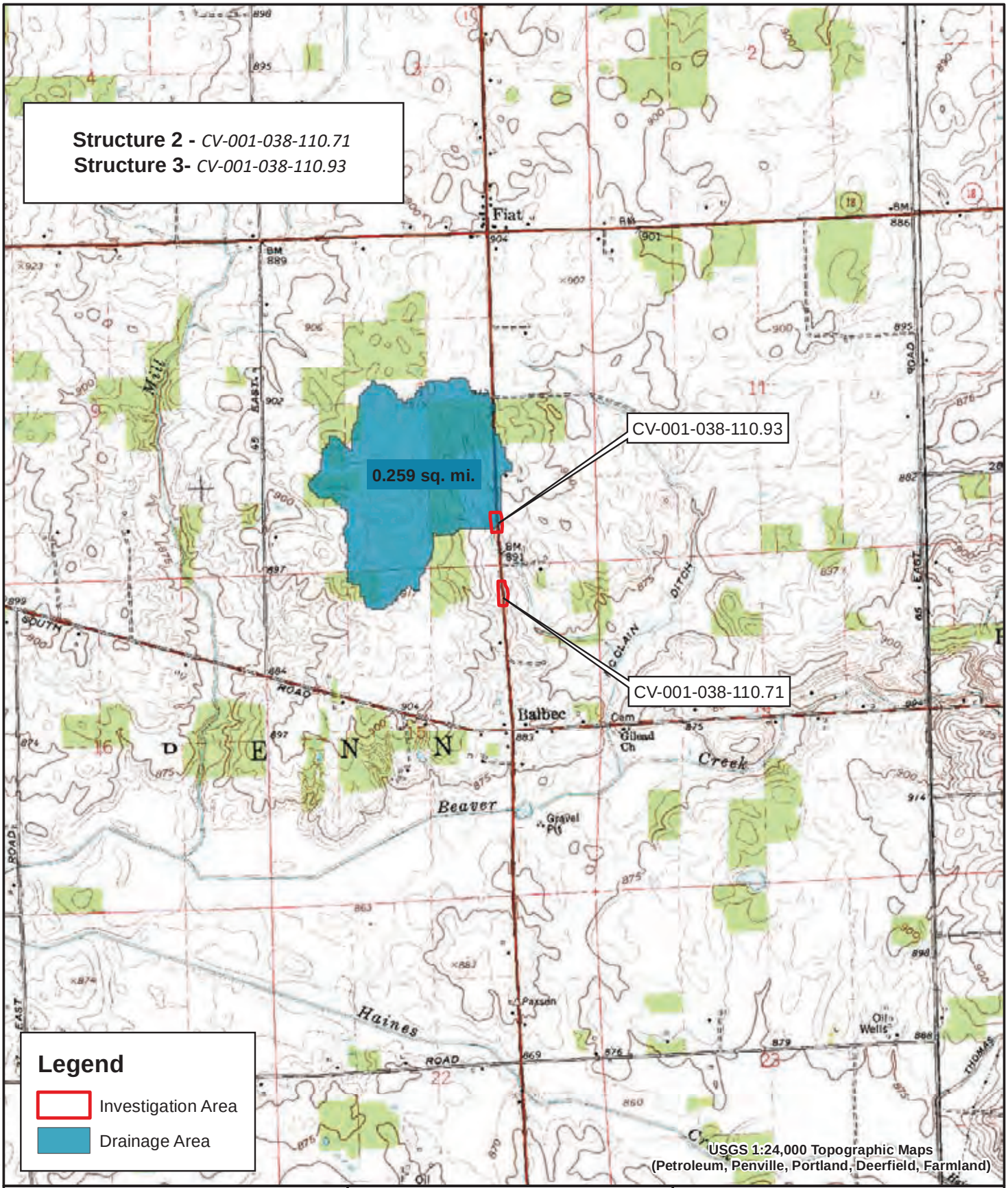

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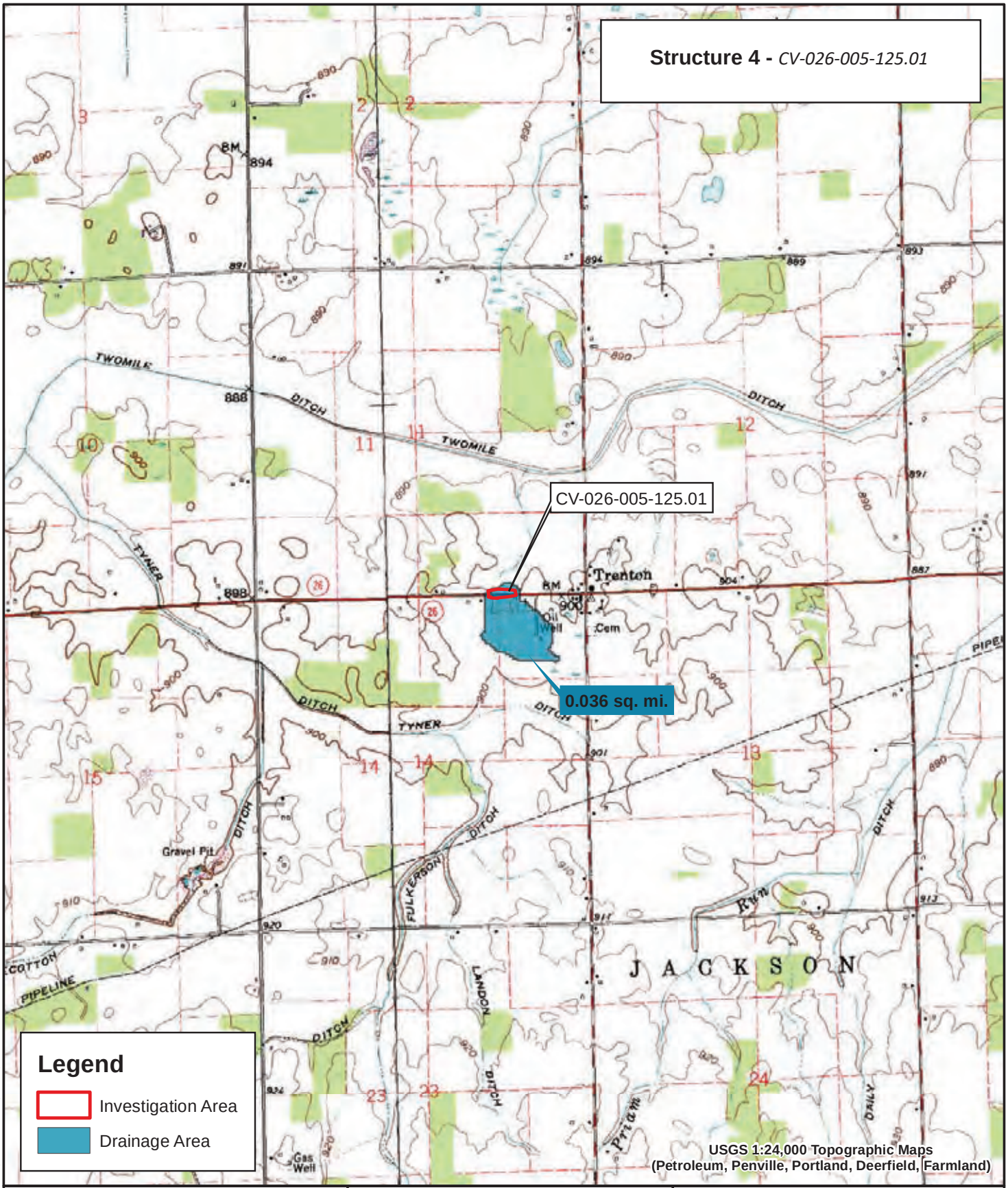

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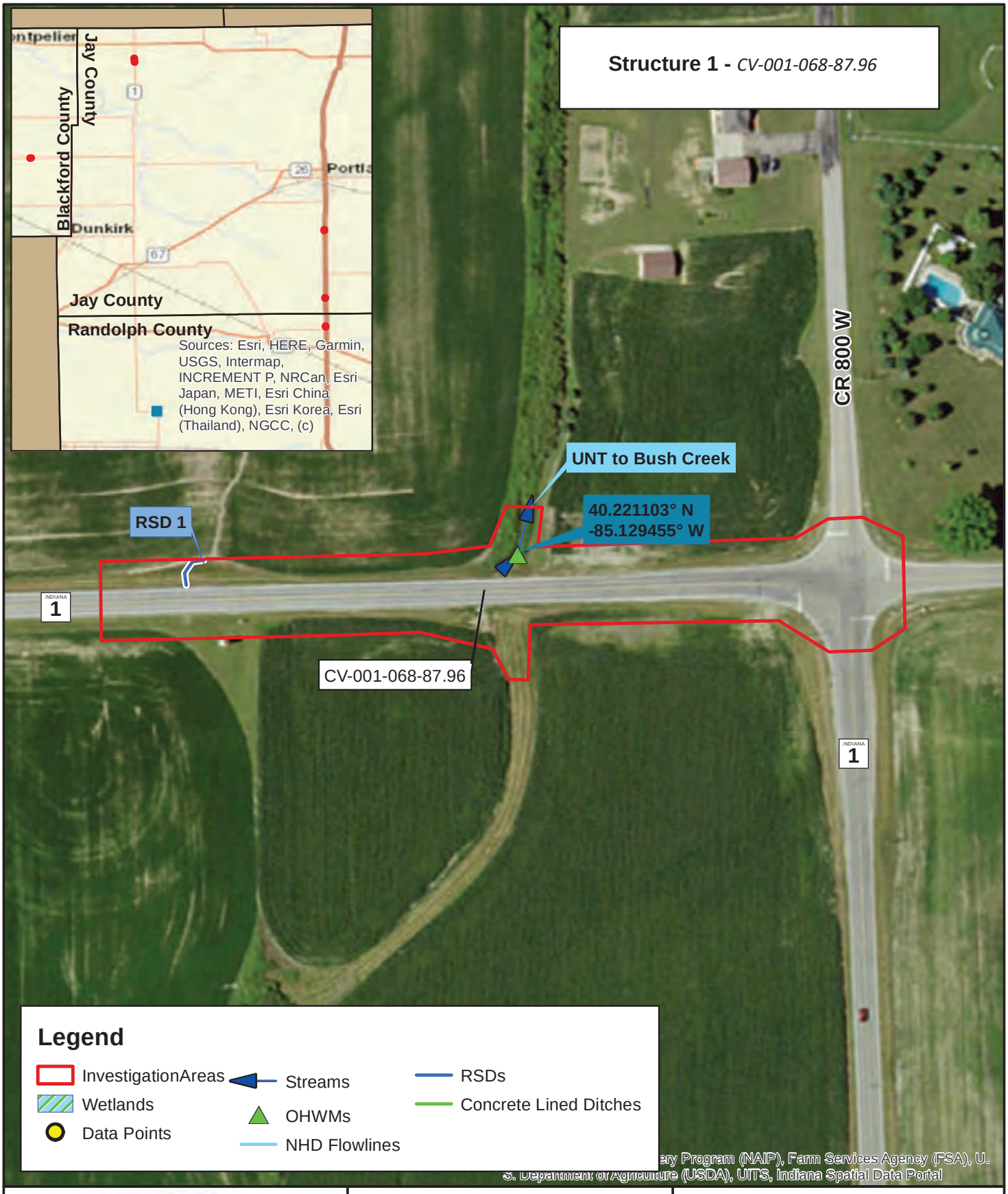

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Water Resources Maps

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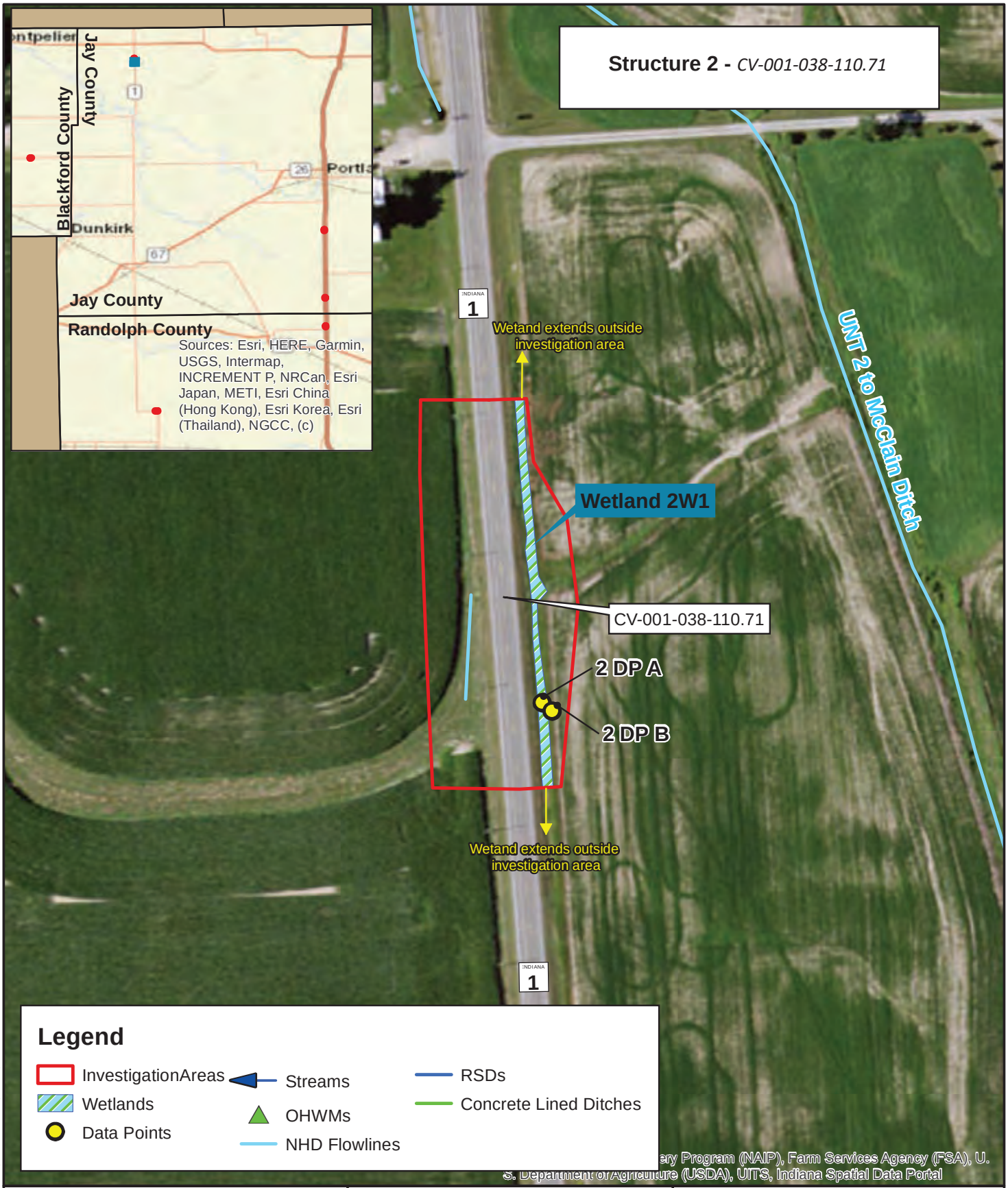

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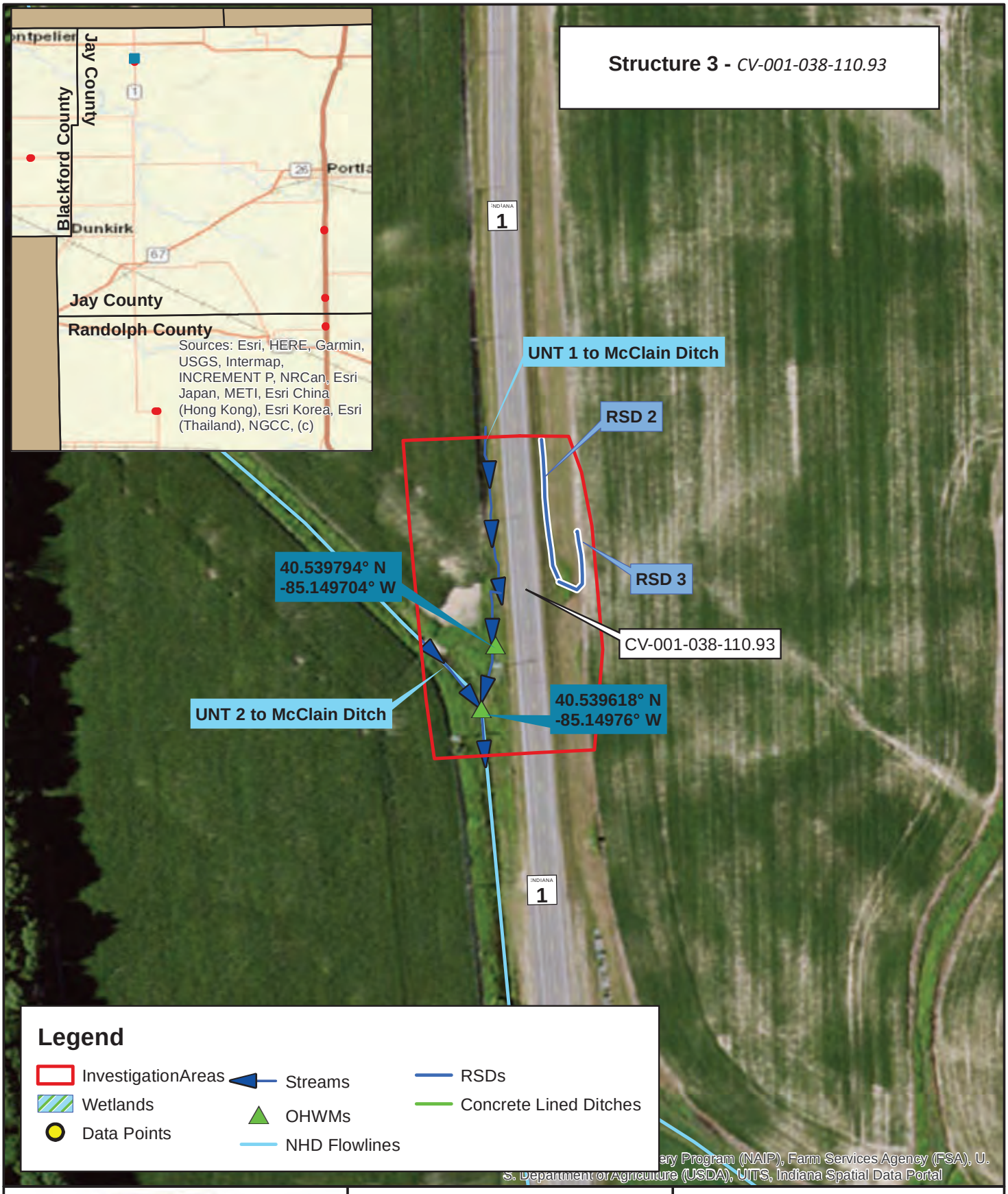

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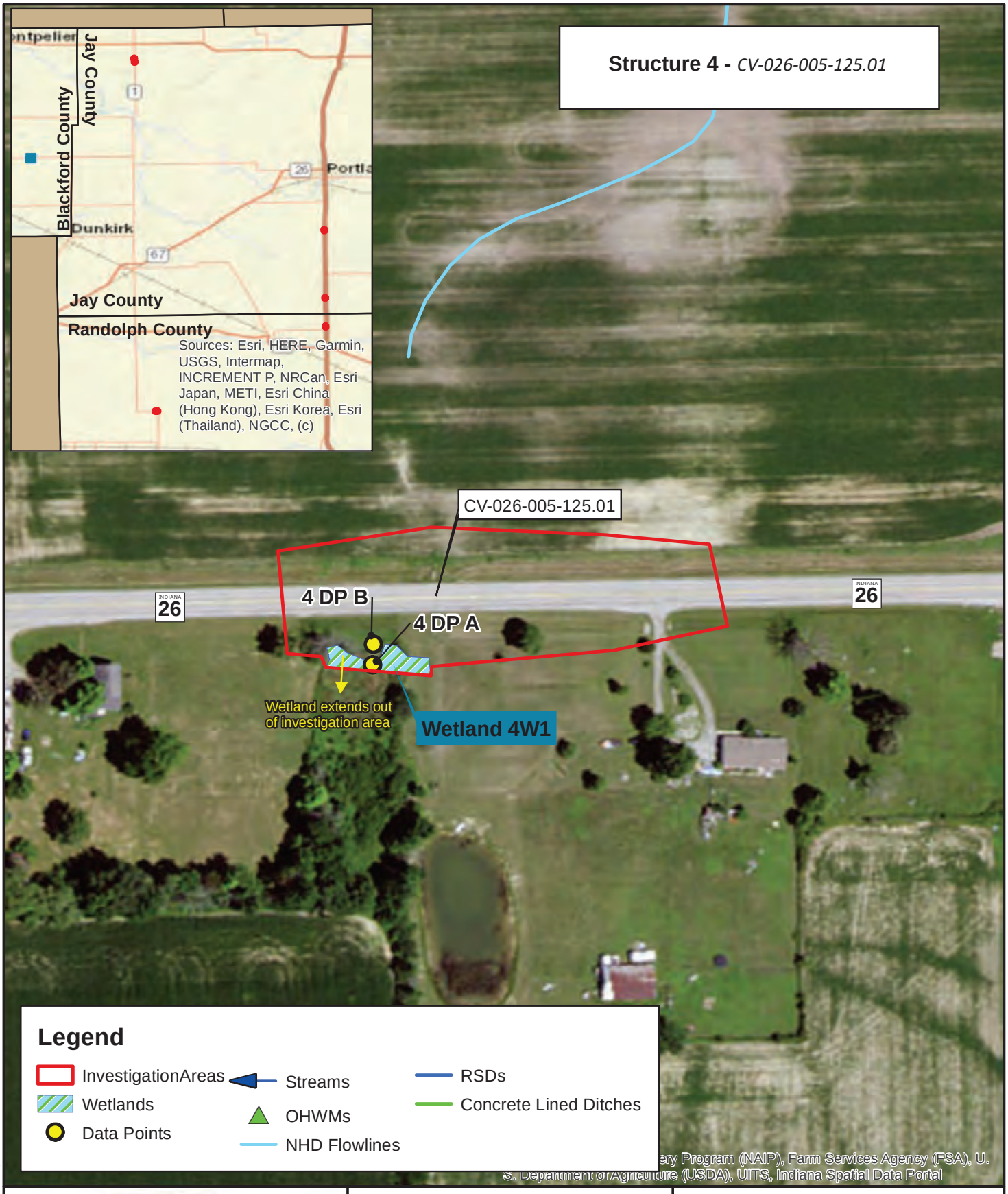

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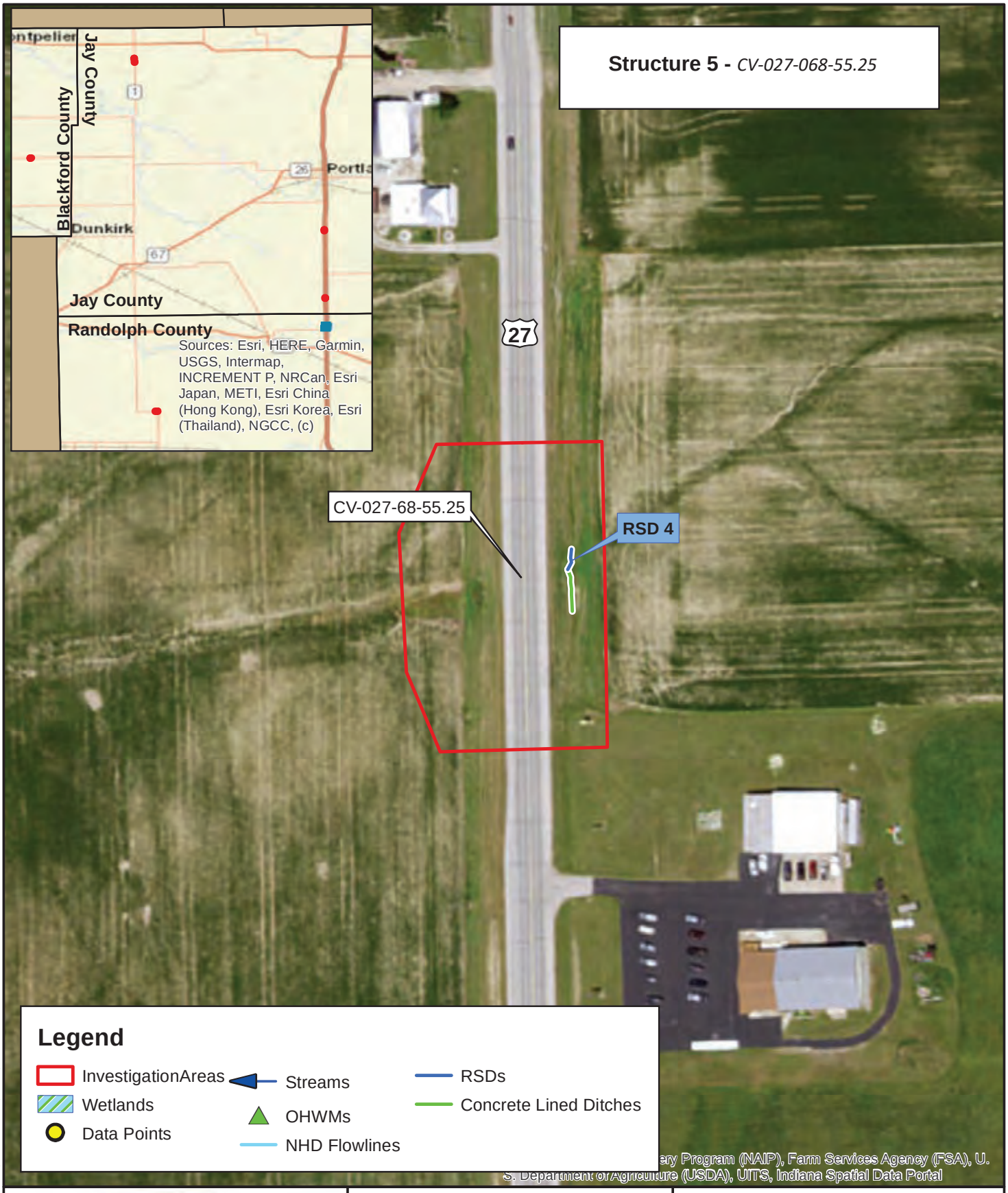

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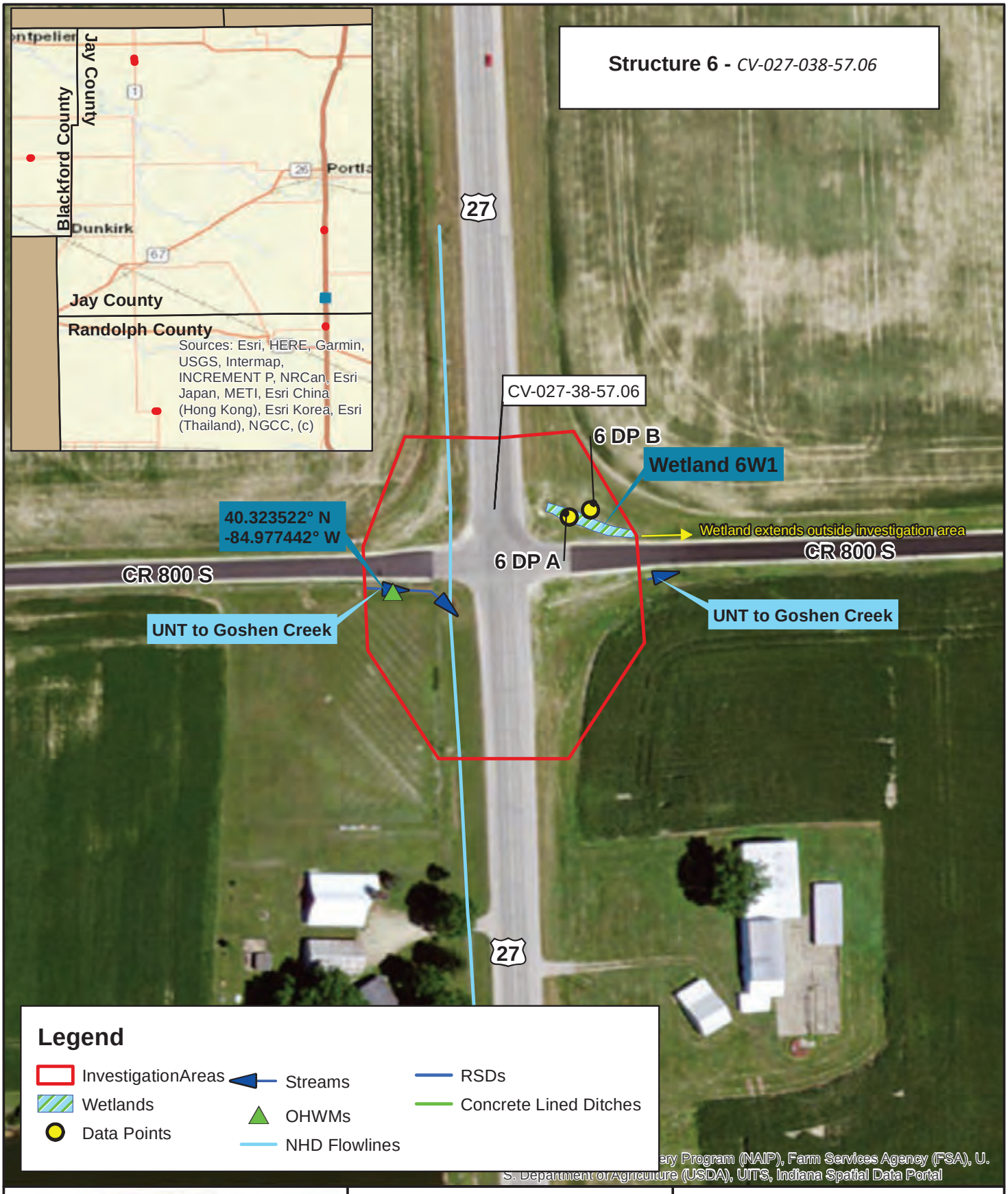

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Page 6 of 7

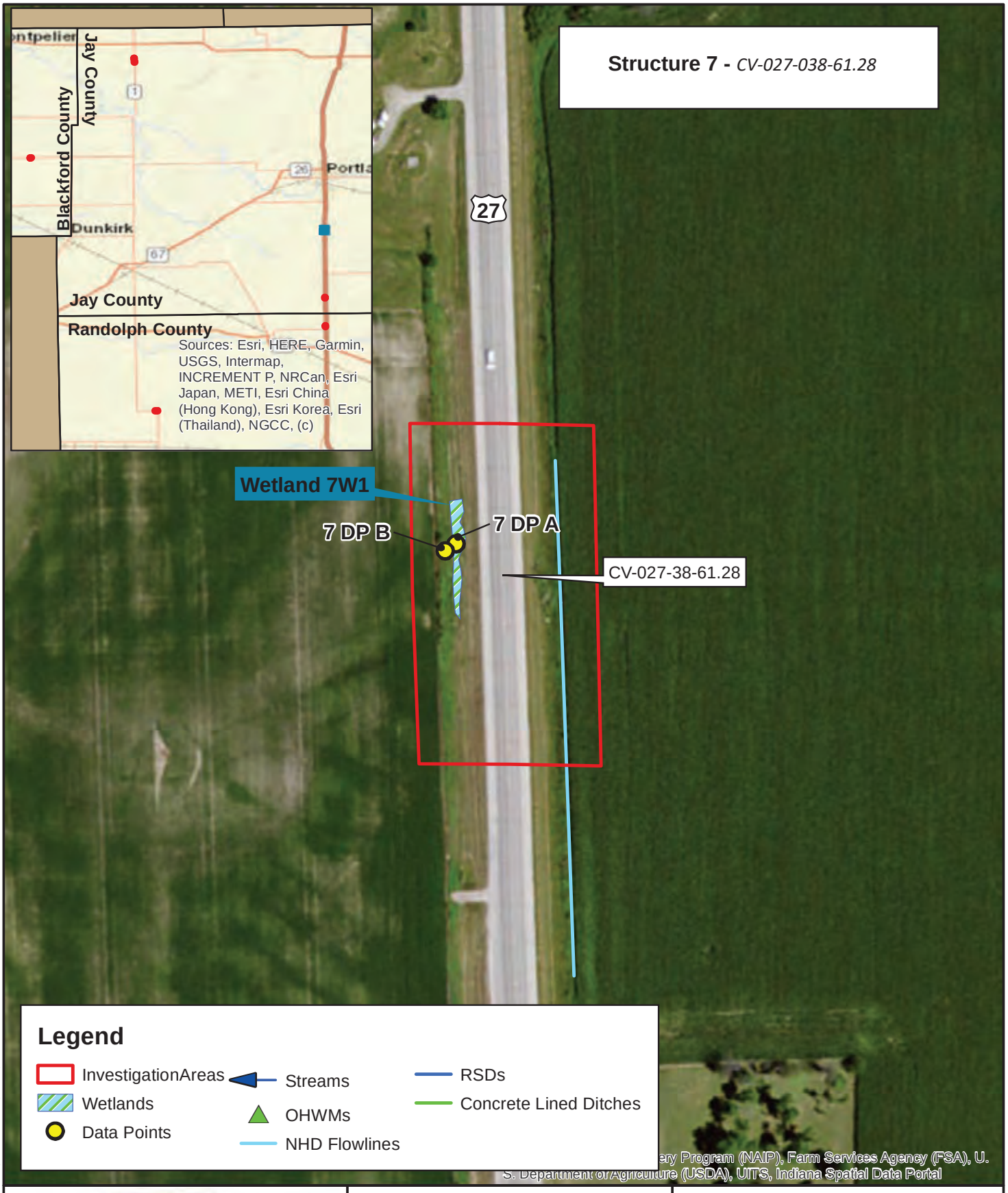
Water Resources Maps
Des. No. 1902734
Waters of the U.S. Report

0 62.5 125 Feet

N

Counties: Blackford, Jay, & Randolph
Townships: Monroe, Ward, State: Indiana
Penn, Pike, & Jackson

Small Structures Replacement Project
Structures on SR 26, SR 1, and US 27
Created:3/9/2022, R. Hook



LOCHMUELLER GROUP
3502 Woodview Trace, Suite 150
Indianapolis, Indiana 46268
PHONE: 317.222.3880
TOLL FREE: 888.830.6977

Water Resources Maps
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Counties: Blackford, Jay, & Randolph
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Page 7 of 7

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Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 1/7/2022

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Ruth Hook, 112 W Jefferson Blvd, Suite 500, South Bend, IN 46601

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The Indiana Department of Transportation, Greenfield District, with federal funding from the Federal Highway Administration (FHWA), intends to proceed with the seven non-contiguous small structure projects along SR 26, SR 1, and US 27 in Blackford, Jay, and Randolph Counties, Indiana (Des. No. 1902734). The proposed project involves replacement of each small structures in-kind. Exact dimensions are unknown at this time. The typical cross-section of the roadway at each small structure will remain the same. Pavement will be restored at the location of each replacement. The total length of each replacement varies from 65-200 feet.

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: IN County/parish/borough: Blackford/Jay/Randolph City: N/A

Center coordinates of site (lat/long in degree decimal format):

Lat.: 40.220983° Long.: -85.129569°

Universal Transverse Mercator: 659148.32 E, 4453962.40 N, Z 16T

Name of nearest waterbody: Bush Creek

Structure #1

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

Structure 2: Latitude: 40.536799° N Longitude: -85.149355° W; UTM: 656730.86 E, 4488984.85 N, Z 16T; Nearest water body: McClain Ditch
Structure 3: Latitude: 40.539952° N Longitude: -85.149592° W; UTM: 656703.43 E, 4489334.44 N, Z 16T; Nearest water body: McClain Ditch
Structure 4: Latitude: 40.449999° N Longitude: -85.243563° W; UTM: 648943.86 E, 4479186.07 N, Z 16T; Nearest water body: Tyner Ditch
Structure 5: Latitude: 40.297614° N Longitude: -84.976508° W; UTM 671978.38 E, 4462754.86 N, Z 16T; Nearest water body: Buckeye Creek
Structure 6: Latitude: 40.323476° N Longitude: -84.977044° W; UTM 671867.22 E, 4465624.70 N, Z 16T; Nearest water body: Goshen Creek
Structure 7: Latitude: 40.384735° N Longitude: -84.977861° W; UTM 671642.34 E, 4472423.37 N, Z 16T; Nearest water body: Ashley Ditch

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
UNT to Bush Creek	40.221103°	-85.129455°	73 ft (0.006 ac)	Non-wetland	Section 404
UNT 1 to McClain Ditch	40.539794°	-85.149704°	280 ft (0.013 ac)	Non-wetland	Section 404
UNT 2 to McClain Ditch	40.539618°	-85.14976°	140 (0.018 ac)	Non-wetland	Section 404
UNT to Goshen Creek	40.323522°	-84.977442°	92 ft (0.013 ac)	Non-wetland	Section 404
Wetland 2W1	40.536496°	-85.149228°	0.08 acre	Wetland	Section 404
Wetland 4W1	40.449818°	-85.243789°	0.04 acre	Wetland	Section 404
Wetland 6W1	40.323716°	--84.976804°	0.02 acre	Wetland	Section 404
Wetland 7W1	40.384838°	-84.978035°	0.02 acre	Wetland	Section 404

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.

2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there *ma e* waters of the U.S. and/or that there *ma e* navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- [x] Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
  Map: State location, topo, NWI, Soils, Flood Hazard, StreamStats, Water Resources, Photo.
- [x] Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - [ ] Office concurs with data sheets/delineation report.
  - [ ] Office does not concur with data sheets/delineation report. Rationale: _____.
- [ ] Data sheets prepared by the Corps: _____.
- [ ] Corps navigable waters' study: _____.
- [x] U.S. Geological Survey Hydrologic Atlas: WATERSHEDS_HUC12_2009_USDA_IN geodatabse Hydrography_LocalRes_Flowline_Classified_NHD_IN.
  - [x] USGS NHD data.
  - [x] USGS 8 and 12 digit HUC maps.
- [x] U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Farmland, Petroleum, Pennville, Deerfield, Portland.
- [x] Natural Resources Conservation Service Soil Survey. Citation: 2020 Jay/Blackford/Randolph SSURGO.
- [x] National wetlands inventory map(s). Cite name: IN_geodatabase_wetlands.gdb.
- [ ] State/local wetland inventory map(s): _____.
- [x] FEMA/FIRM maps: Indiana Floodplain Information Portal (https://dnrmaps.dnr.in.gov/appsphp/fdms/) Best Available Flood Zones.
- [x] 100-year Floodplain Elevation is: 863.3, 883.4, 989.1 .(National Geodetic Vertical Datum of 1929)
- [x] Photographs: [x] Aerial (Name & Date): IN NAIP 2018.
  or [x] Other (Name & Date): Field photos: October 4th, 6th, and 15th, 2021.
- [ ] Previous determination(s). File no. and date of response letter: _____.
- [ ] Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

_____	Ruth Hook Digitally signed by Ruth Hook Date: 2021.12.29 13:02:33 -05'00'
Signature and date of Regulatory staff member completing PJD	Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)[1]

[1] Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

Categorical Exclusion

Appendix F

Public Involvement

LOCHMUELLER GROUP
6200 Vogel Road, Evansville, Indiana 47715 • 812.479.6200

April 28, 2021

Example Notice of Survey Letter

NOTICE OF SURVEY

RE: S.R. 1 Small Structure Replacement Project (CLV-001-0038-110.71):
- 1.09 mi S of Jct of S.R. 18 in Jay County, Indiana.
  - o Loch Group Project No.: 120-2028-02H
  - o INDOT Des. No. 1902734

Dear Property Owner:

Research of county records indicates that you own or occupy property(s) near this proposed Small Structure Replacement Project. Our employees will be doing a survey of the project area(s) in the near future. It may be necessary for them to come onto your property to complete this work. These procedures are allowed by Indiana Code IC 8-23-7-26. If you are available, our surveyors will show identification before coming onto your property. If you have sold this property, or it is occupied by someone else, please advise us of the name and address of the current owner/occupant so that we may contact them about the survey.

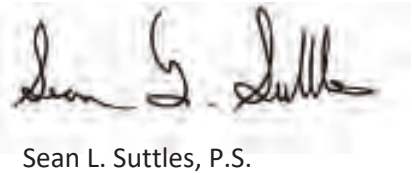
At this stage we do not know what effect, if any, our project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

The survey work will include mapping the location of features such as buildings, trees, fences and drives, as well as obtaining ground elevations. The survey work may include the identification and mapping of wetlands and streams, and various other environmental studies. This work is necessary for the proper planning and design of this proposed Small Structure Replacement Project.

Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please contact our field crew or call me at **(812-479-6200)**, or write to me at the above address. Thank you in advance for your cooperation.

Sincerely yours,

LOCHMUELLER GROUP, INC.



Sean L. Suttles, P.S.
Chief of Surveying

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Categorical Exclusion

Appendix G

Air Quality

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SPONSOR	CONTRACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2022	2023	2024	2025	2026
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*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

Categorical Exclusion

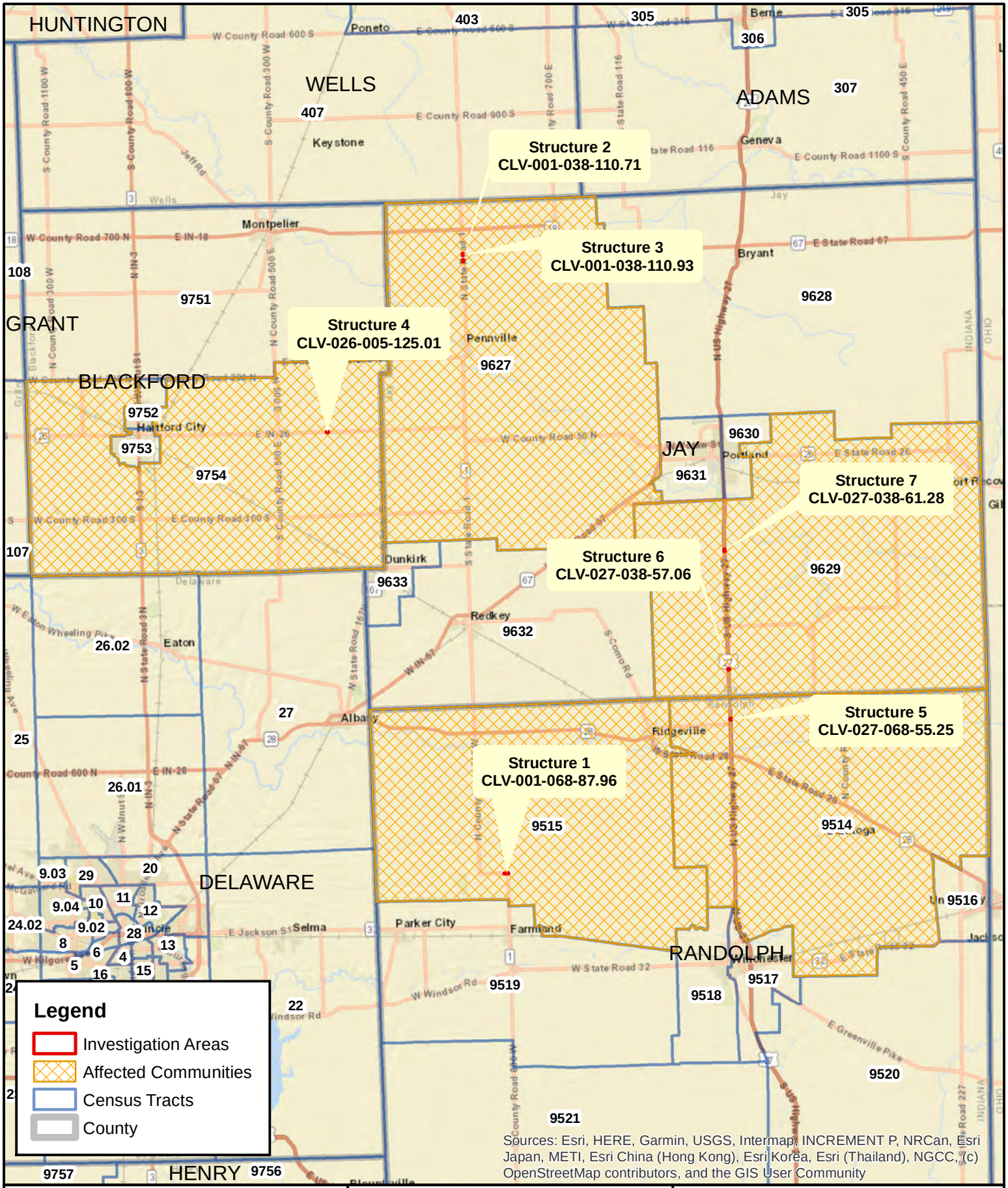
Appendix H

Other

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated March 2022)

ProjectNumber	SubProjectCode	County	Property
1800347	1800347	Blackford	Montpelier Community Park
1800187	1800187	Jay	Sportland Park
1800243	1800243	Jay	North End Park (Milton Miller Memorial Park)
1800043	1800043	Randolph	Harter Park
1800081	1800081	Randolph	Harter Park
1800117	1800117	Randolph	Harter Park

*Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.



LOCHMUELLER GROUP
3502 Woodview Trace, Suite 150
Indianapolis, IN 46268
Phone: (317) 222-3880
Fax: (317) 222-3881

Environmental Justice Map

Des. No. 1902734

Counties: Blackford, Jay, & Randolph
Townships: Monroe, Ward, Penn, Pike & Jackson State: Indiana

0 2.5 5 Miles

N

SmallStructures Project
Structures on SR 1, SR 26, and US 27
Created:4/27/2022, RWinebrinner

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Environmental Justice (EJ) Analysis

SR 1, SR 26, and US 27 Small Structures Project
Blackford, Jay, and Randolph Counties, Indiana
Des. No. 1902734

	Community of Comparison (COC)	Affected Community (AC1)	Community of Comparison (COC)	Affected Community (AC2)	Affected Community (AC3)	Community of Comparison (COC)	Affected Community (AC4)	Affected Community (AC5)
	Blackford County, Indiana	Census Tract 9754, Blackford County, Indiana	Jay County, Indiana	Census Tract 9627, Jay County, Indiana	Census Tract 9629, Jay County, Indiana	Randolph County, Indiana	Census Tract 9514, Randolph County, Indiana	Census Tract 9515, Randolph County, Indiana
Income								
Total population for the purpose of surveying poverty income:	11,731	2,879	20,355	3,377	2,860	24,190	2,533	2,727
Population with income in the past 12 months below poverty level:	1,965	402	2,943	410	335	2,938	158	211
Percent Low Income	**16.75%**	**13.96%**	**14.46%**	**12.14%**	**11.71%**	**12.15%**	**6.24%**	**7.74%**
125% of COC	*20.94%*		*18.07%*			*15.18%*		
Potential Low-income EJ Concern?		**No**		**No**	**No**		**No**	**No**
Race								
Total Population for the purpose of surveying race:	11926	3003	20697	3389	2866	24694	2553	2,754
Total population non-hispanic/latino; white alone:	11374	2972	19604	3300	2821	22782	2469	2,625
Minority Population	**552**	**31**	**1093**	**89**	**45**	**1912**	**84**	**129**
Minority Percentage	**4.63%**	**1.03%**	**5.28%**	**2.63%**	**1.57%**	**7.74%**	**3.29%**	**4.68%**
125% of COC	*5.79%*		*6.60%*			*9.68%*		
Potential Minority EJ Concern?		**No**		**No**	**No**		**No**	**No**

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

United States Census Bureau

	Blackford County, Indiana		Jay County, Indiana		Randolph County, Indiana		Census Tract 9754, Blackford County, Indiana		Census Tract 9627, Jay County, Indiana		Census Tract 9629, Jay County, Indiana		Census Tract 9514, Randolph County, Indiana		Census Tract 9515, Randolph County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Total:	11,731	±60	20,355	±136	24,190	±153	2,879	±432	3,377	±357	2,860	±398	2,533	±366	2,727	±307
Income in the past 12 months below poverty level:	1,965	±429	2,943	±564	2,938	±374	402	±318	410	±157	335	±227	158	±68	211	±95
Male:	1,048	±276	1,254	±290	1,266	±202	214	±227	150	±84	119	±96	95	±47	155	±84
Under 5 years	78	±56	97	±58	108	±67	0	±12	18	±24	0	±12	0	±12	0	±12
5 years	13	±19	77	±81	6	±9	1	±3	9	±13	65	±83	0	±12	0	±12
6 to 11 years	193	±89	168	±119	156	±57	81	±108	0	±12	0	±12	2	±3	3	±4
12 to 14 years	54	±49	54	±45	138	±66	1	±3	16	±22	0	±12	0	±12	7	±11
15 years	13	±17	15	±13	13	±13	2	±4	2	±4	0	±12	0	±12	2	±5
16 and 17 years	46	±49	65	±43	46	±43	32	±45	0	±12	13	±19	2	±3	22	±32
18 to 24 years	97	±72	119	±65	121	±64	11	±21	19	±36	0	±12	0	±12	23	±33
25 to 34 years	186	±131	78	±49	96	±42	0	±12	4	±6	0	±12	27	±27	4	±7
35 to 44 years	158	±93	106	±46	61	±36	63	±87	15	±21	8	±13	0	±12	22	±27
45 to 54 years	95	±62	82	±51	137	±63	14	±23	0	±12	14	±21	10	±14	12	±14
55 to 64 years	87	±65	233	±77	210	±79	6	±11	53	±34	0	±12	14	±12	29	±33
65 to 74 years	14	±15	123	±61	123	±49	2	±4	14	±18	10	±17	33	±32	19	±18
75 years and over	14	±13	37	±27	51	±29	1	±3	0	±12	9	±14	7	±12	12	±14
Female:	917	±220	1,689	±332	1,672	±262	188	±106	260	±109	216	±144	63	±34	56	±34
Under 5 years	51	±58	300	±92	119	±57	27	±50	27	±26	74	±75	0	±12	0	±12
5 years	0	±19	27	±28	36	±28	0	±12	0	±12	0	±12	0	±12	0	±12
6 to 11 years	28	±35	118	±71	205	±68	2	±5	5	±5	0	±12	2	±3	0	±12
12 to 14 years	45	±54	116	±78	97	±61	0	±12	42	±39	0	±12	0	±12	6	±10
15 years	45	±33	46	±34	14	±13	0	±12	14	±20	0	±12	3	±4	2	±4
16 and 17 years	0	±19	36	±30	16	±14	0	±12	0	±12	15	±23	2	±4	0	±12
18 to 24 years	82	±70	128	±77	104	±53	13	±16	15	±13	42	±64	0	±12	11	±19
25 to 34 years	126	±56	253	±72	275	±91	12	±19	15	±17	4	±8	0	±12	0	±12
35 to 44 years	151	±75	181	±76	147	±62	53	±66	83	±62	0	±12	4	±4	8	±11
45 to 54 years	115	±65	182	±79	121	±57	34	±32	34	±25	63	±53	6	±8	5	±8
55 to 64 years	175	±94	132	±66	261	±104	35	±25	5	±8	0	±12	14	±13	9	±8
65 to 74 years	38	±35	88	±51	101	±43	4	±7	6	±11	0	±12	16	±22	12	±16
75 years and over	61	±30	82	±31	176	±80	8	±9	14	±14	18	±19	16	±21	3	±4
Income in the past 12 months at or above poverty level:	9,766	±421	17,412	±582	21,252	±410	2,477	±294	2,967	±367	2,525	±263	2,375	±369	2,516	±301
Male:	4,677	±255	8,967	±357	10,619	±223	1,195	±158	1,591	±195	1,341	±196	1,168	±197	1,238	±188
Under 5 years	234	±55	655	±69	625	±44	64	±46	126	±59	80	±45	27	±27	51	±42
5 years	25	±27	37	±23	91	±63	2	±6	6	±11	0	±12	0	±12	3	±5
6 to 11 years	330	±75	693	±103	671	±97	47	±32	85	±51	119	±54	148	±67	34	±28
12 to 14 years	92	±45	412	±99	438	±112	11	±16	81	±52	39	±31	56	±35	63	±51
15 years	72	±41	115	±51	172	±60	1	±2	42	±29	7	±13	13	±17	0	±12
16 and 17 years	132	±39	226	±59	306	±58	21	±18	39	±30	24	±21	61	±36	66	±50
18 to 24 years	378	±67	823	±166	846	±80	88	±73	121	±65	192	±112	41	±36	107	±69
25 to 34 years	466	±136	1,104	±75	1,248	±73	148	±84	198	±100	137	±76	82	±41	77	±56
35 to 44 years	410	±90	1,040	±73	1,311	±85	87	±42	123	±65	155	±45	76	±39	200	±69
45 to 54 years	686	±52	1,244	±70	1,461	±79	250	±61	237	±74	127	±68	169	±85	245	±76
55 to 64 years	779	±60	1,179	±89	1,499	±74	170	±58	289	±74	160	±56	294	±93	121	±60
65 to 74 years	677	±29	867	±61	1,137	±51	172	±44	167	±62	256	±66	157	±69	105	±42
75 years and over	396	±24	572	±37	814	±49	134	±45	77	±31	45	±32	44	±33	166	±66
Female:	5,089	±214	8,445	±331	10,633	±329	1,282	±195	1,376	±224	1,184	±136	1,207	±223	1,278	±162
Under 5 years	253	±57	364	±92	572	±83	77	±42	73	±60	55	±39	53	±43	88	±58
5 years	141	±106	36	±24	59	±30	16	±15	15	±14	17	±19	0	±12	6	±10
6 to 11 years	396	±90	603	±114	754	±122	91	±64	134	±82	60	±48	78	±54	62	±40
12 to 14 years	183	±88	394	±78	355	±110	20	±28	62	±42	72	±43	82	±63	24	±27
15 years	23	±22	169	±60	81	±39	10	±10	28	±34	46	±40	29	±25	16	±15
16 and 17 years	125	±41	185	±59	391	±51	41	±35	49	±32	38	±33	47	±59	105	±51
18 to 24 years	298	±70	632	±74	788	±58	35	±32	113	±46	44	±30	82	±47	83	±48
25 to 34 years	530	±61	845	±80	1,022	±135	143	±49	116	±59	73	±41	69	±38	120	±57
35 to 44 years	465	±74	943	±101	1,261	±65	107	±38	109	±63	146	±51	162	±61	155	±37
45 to 54 years	663	±70	1,176	±60	1,418	±63	188	±85	143	±47	194	±73	109	±38	232	±66
55 to 64 years	732	±64	1,230	±68	1,587	±152	177	±55	247	±59	191	±80	291	±115	178	±57
65 to 74 years	678	±46	1,070	±66	1,336	±62	187	±45	150	±43	196	±86	162	±54	107	±43
75 years and over	602	±41	798	±83	1,009	±108	190	±50	137	±90	52	±34	43	±31	102	±65

HISPANIC OR LATINO ORIGIN BY RACE

United States® Census Bureau

	Blackford County, Indiana		Jay County, Indiana		Randolph County, Indiana		Census Tract 9754, Blackford County, Indiana		Census Tract 9627, Jay County, Indiana		Census Tract 9629, Jay County, Indiana		Census Tract 9514, Randolph County, Indiana		Census Tract 9515, Randolph County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Total:	11,926	*****	20,697	*****	24,694	*****	3,003	±428	3,389	±350	2,866	±400	2,553	±367	2,754	±313
Not Hispanic or Latino:	11,719	*****	20,031	*****	23,795	*****	2,990	±435	3,374	±347	2,839	±397	2,553	±367	2,747	±313
White alone	11,374	±19	19,604	±23	22,782	±283	2,972	±440	3,300	±344	2,821	±404	2,469	±356	2,625	±345
Black or African American alone	52	±66	64	±41	109	±81	3	±5	6	±11	0	±12	0	±12	0	±12
American Indian and Alaska Native alone	29	±34	67	±47	9	±12	0	±12	0	±12	0	±12	0	±12	0	±12
Asian alone	39	±46	95	±44	92	±92	0	±12	4	±9	0	±12	74	±97	0	±12
Native Hawaiian and Other Pacific Islander alone	0	±19	1	±2	0	±23	0	±12	0	±12	0	±12	0	±12	0	±12
Some other race alone	0	±19	1	±2	393	±283	0	±12	0	±12	0	±12	0	±12	111	±127
Two or more races:	225	±59	199	±79	410	±70	15	±29	64	±36	18	±30	10	±14	11	±14
Two races including Some other race	0	±19	0	±23	0	±23	0	±12	0	±12	0	±12	0	±12	0	±12
Two races excluding Some other race, and three or more races	225	±59	199	±79	410	±70	15	±29	64	±36	18	±30	10	±14	11	±14
Hispanic or Latino:	207	*****	666	*****	899	*****	13	±36	15	±36	27	±46	0	±12	7	±11
White alone	203	±8	359	±209	566	±224	13	±36	15	±36	27	±46	0	±12	7	±11
Black or African American alone	0	±19	0	±23	0	±23	0	±12	0	±12	0	±12	0	±12	0	±12
American Indian and Alaska Native alone	0	±19	34	±47	9	±15	0	±12	0	±12	0	±12	0	±12	0	±12
Asian alone	0	±19	0	±23	0	±23	0	±12	0	±12	0	±12	0	±12	0	±12
Native Hawaiian and Other Pacific Islander alone	0	±19	0	±23	0	±23	0	±12	0	±12	0	±12	0	±12	0	±12
Some other race alone	0	±19	242	±244	92	±98	0	±12	0	±12	0	±12	0	±12	0	±12
Two or more races:	4	±7	31	±60	232	±187	0	±12	0	±12	0	±12	0	±12	0	±12
Two races including Some other race	0	±19	27	±57	156	±160	0	±12	0	±12	0	±12	0	±12	0	±12
Two races excluding Some other race, and three or more races	4	±7	4	±12	76	±68	0	±12	0	±12	0	±12	0	±12	0	±12

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

United States® Census Bureau

Note: The table shown may have been modified by user selections. Some information may be missing.

DATA NOTES	
TABLE ID:	B17001
SURVEY/PROGRAM:	American Community Survey
VINTAGE:	2020
DATASET:	ACSDT5Y2020
PRODUCT:	ACS 5-Year Estimates Detailed Tables
UNIVERSE:	Population for whom poverty status is determined
FTP URL:	None
API URL:	https://api.census.gov/data/2020/acs/acs5
USER SELECTIONS	
GEOS	Blackford County, Indiana; Jay County, Indiana; Randolph County, Indiana; Census Tract 9514, Randolph County, Indiana; Census Tract 9629, Jay County, Indiana; Census Tract 9521, Randolph County, Indiana; Census Tract 9519, Randolph County, Indiana; Census Tract 9754, Blackford County, Indiana; Census Tract 9627, Jay County, Indiana
EXCLUDED COLUMNS	None
APPLIED FILTERS	None
APPLIED SORTS	None
PIVOT & GROUPING	None
WEB ADDRESS	https://data.census.gov/cedsci/table?q=B17001%3A%20POVERTY%20STATUS%20IN%20THE%20PAST%2012%20MONTHS%20BY%20SEX%20BY%20AGE&text=B17001&g=0500000US18009,18075,18135_1400000US18009975400,18075962700,18075962900,18135951400,18135951900,18135952100&tid=ACSDT5Y2020.B17001
TABLE NOTES	Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, for 2020, the 2020 Census provides the official counts of the population and housing units for the nation, states, counties, cities, and towns. For 2016 to 2019, the Population Estimates Program provides estimates of the population for the nation, states, counties, cities, and towns and intercensal housing unit estimates for the nation, states, and counties.
	Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section. Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.
	Source: U.S. Census Bureau, 2016-2020 American Community Survey 5-Year Estimates
	Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.
	The 2016-2020 American Community Survey (ACS) data generally reflect the September 2018 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.
	Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.
	Explanation of Symbols:- The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution.N The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area. (X) The estimate or margin of error is not applicable or not available.median- The median falls in the lowest interval of an open-ended distribution (for example "2,500-")median+ The median falls in the highest interval of an open-ended distribution (for example "250,000+").** The margin of error could not be computed because there were an insufficient number of sample observations.*** The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.***** A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.
COLUMN NOTES	None

HISPANIC OR LATINO ORIGIN BY RACE

United States® Census Bureau

Note: The table shown may have been modified by user selections. Some information may be missing.

DATA NOTES	
TABLE ID:	B03002
SURVEY/PROGRAM:	American Community Survey
VINTAGE:	2020
DATASET:	ACSDT5Y2020
PRODUCT:	ACS 5-Year Estimates Detailed Tables
UNIVERSE:	Total population
FTP URL:	None
API URL:	https://api.census.gov/data/2020/acs/acs5
USER SELECTIONS	
TABLES	B03002
GEOS	Blackford County, Indiana; Jay County, Indiana; Randolph County, Indiana; Census Tract 9514, Randolph County, Indiana; Census Tract 9629, Jay County, Indiana; Census Tract 9521, Randolph County, Indiana; Census Tract 9519, Randolph County, Indiana; Census Tract 9754, Blackford County, Indiana; Census Tract 9627, Jay County, Indiana
EXCLUDED COLUMNS	None
APPLIED FILTERS	None
APPLIED SORTS	None
PIVOT & GROUPING	None
WEB ADDRESS	https://data.census.gov/cedsci/table?q=B03002%3A%20HISPANIC%20OR%20LATINO%20ORIGIN%20BY%20RACE&g=0500000US18009,18075,18135_1400000US18009975400,18075962700,18075962900,18135951400,18135951900,18135952100
TABLE NOTES	Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, for 2020, the 2020 Census provides the official counts of the population and housing units for the nation, states, counties, cities, and towns. For 2016 to 2019, the Population Estimates Program provides estimates of the population for the nation, states, counties, cities, and towns and intercensal housing unit estimates for the nation, states, and counties.
	Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section. Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.
	Source: U.S. Census Bureau, 2016-2020 American Community Survey 5-Year Estimates
	Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.
	The Hispanic origin and race codes were updated in 2020. For more information on the Hispanic origin and race code changes, please visit the American Community Survey Technical Documentation website.
	The 2016-2020 American Community Survey (ACS) data generally reflect the September 2018 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.
	Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.
	Explanation of Symbols:- The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution.N The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area. (X) The estimate or margin of error is not applicable or not available.median- The median falls in the lowest interval of an open-ended distribution (for example "2,500-")median+ The median falls in the highest interval of an open-ended distribution (for example "250,000+").** The margin of error could not be computed because there were an insufficient number of sample observations.*** The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.***** A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.
COLUMN NOTES	None