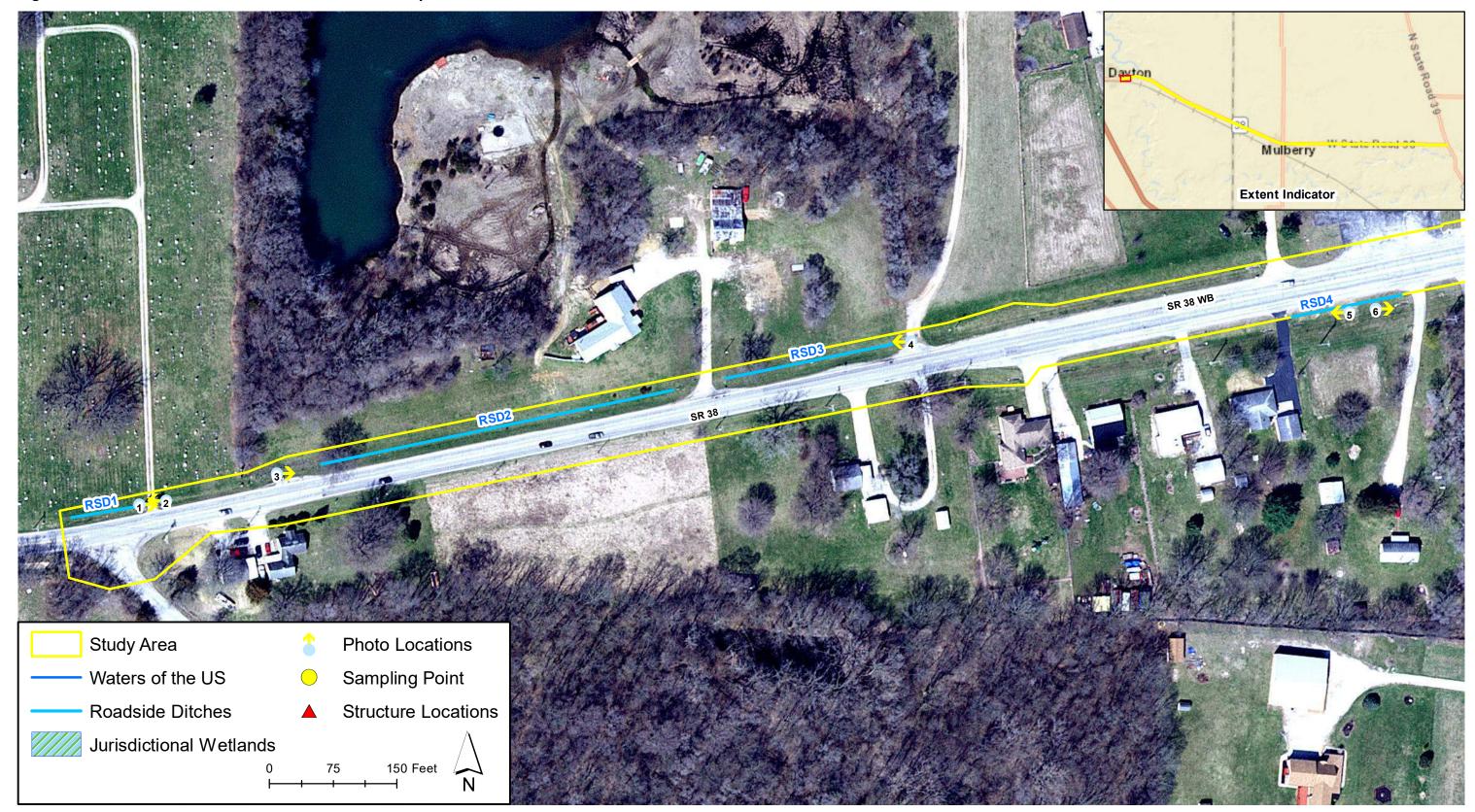
Figure 4 Delineated Features and Photo Orientation Map - Sheet 1





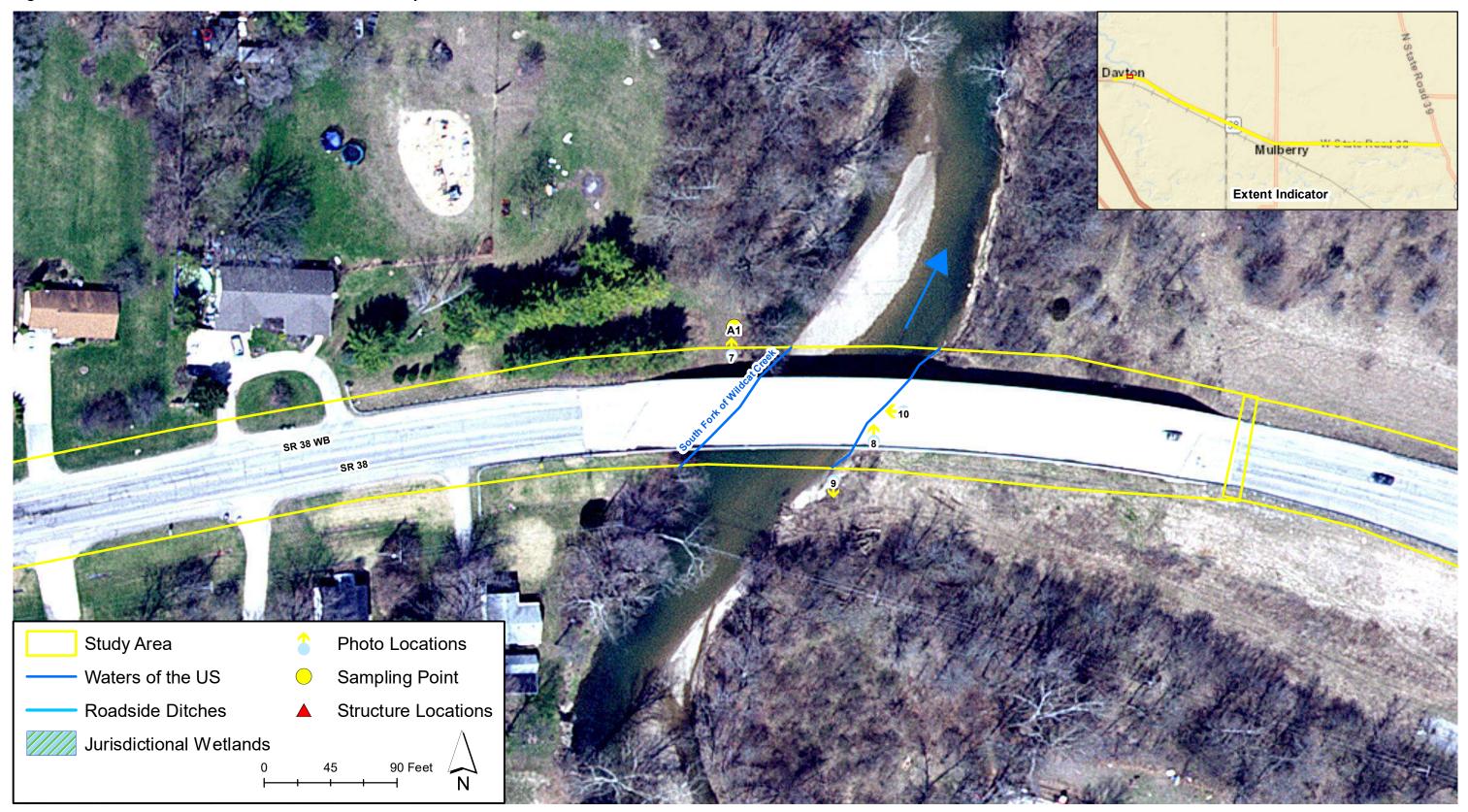
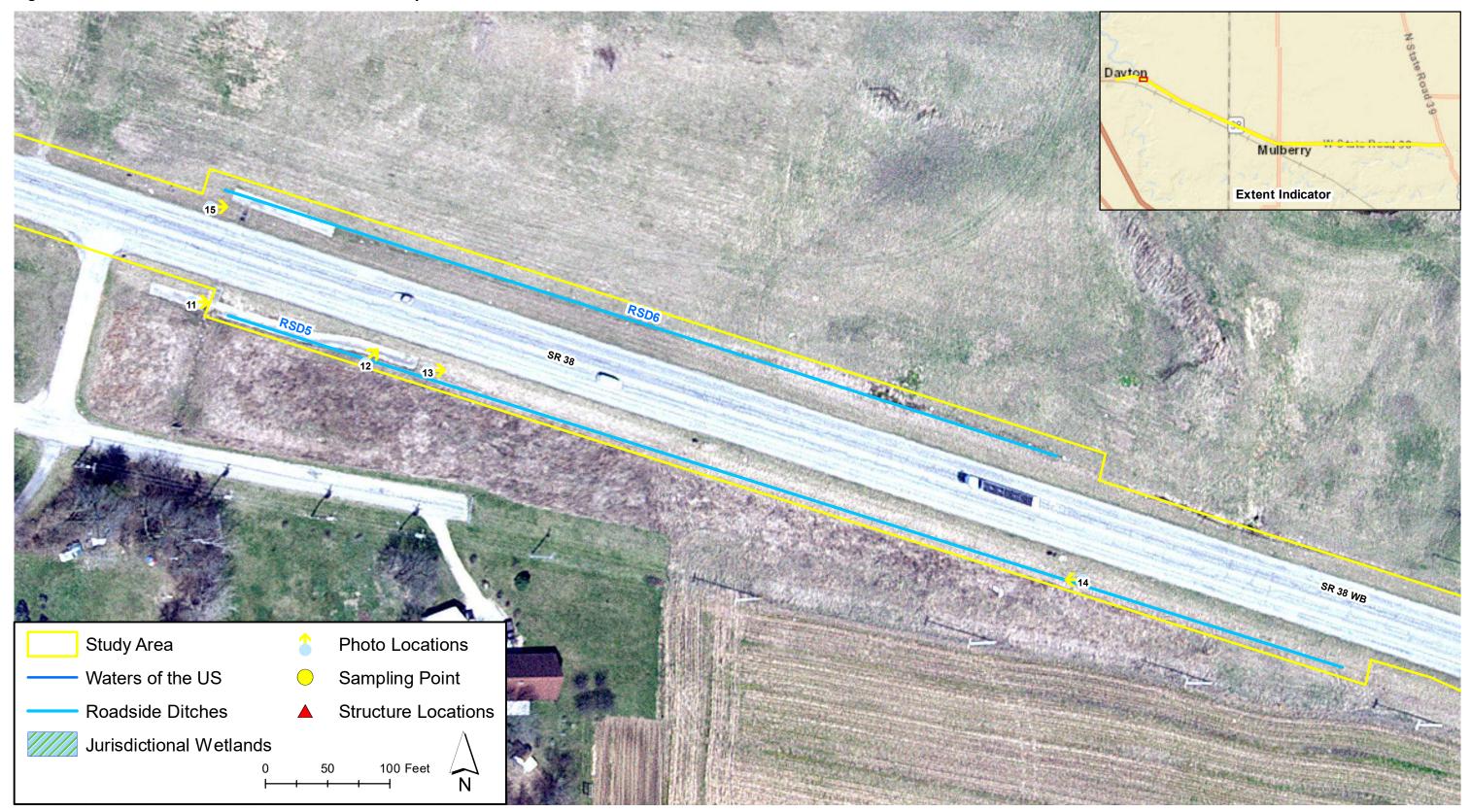




Figure 4 Delineated Features and Photo Orientation Map - Sheet 3





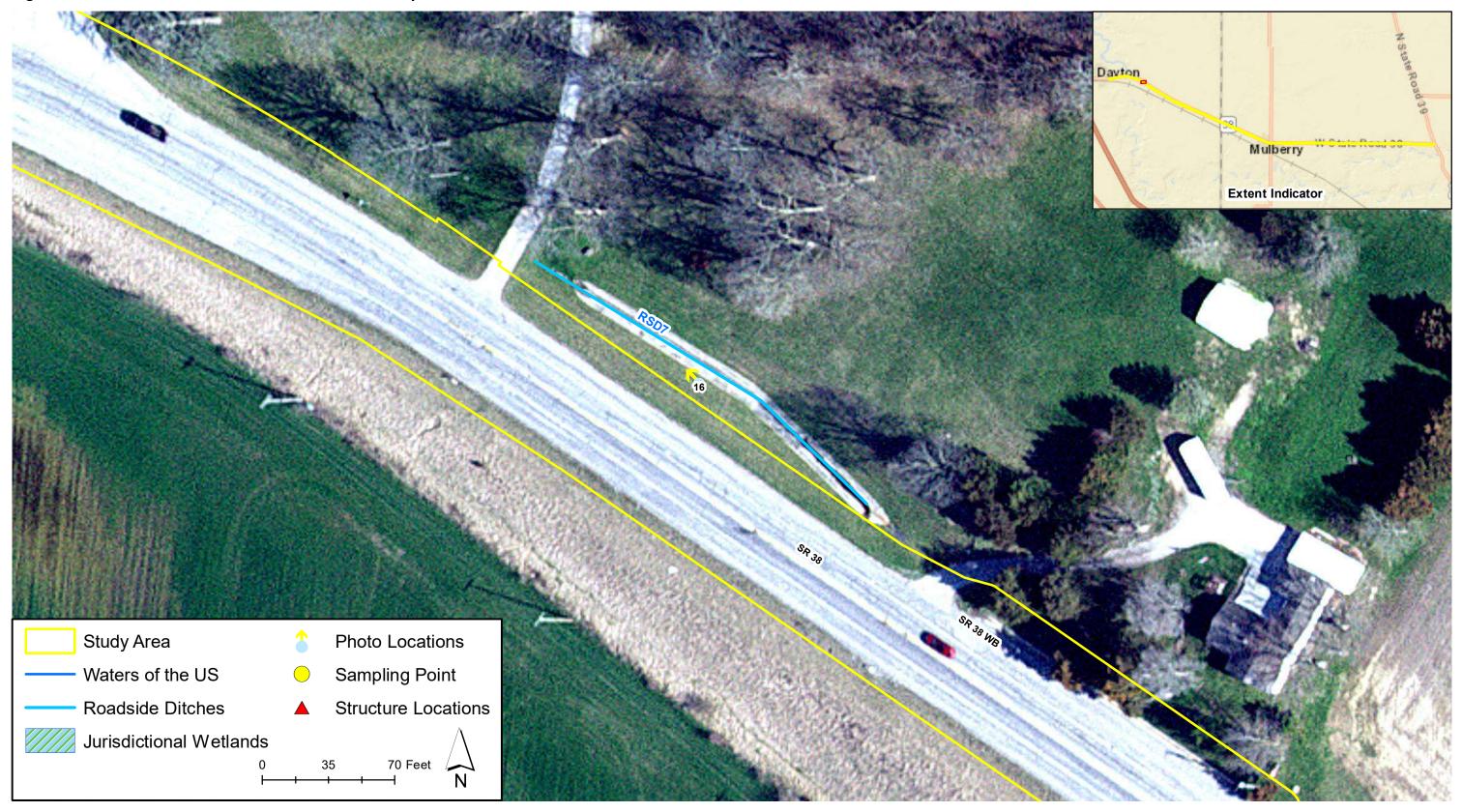


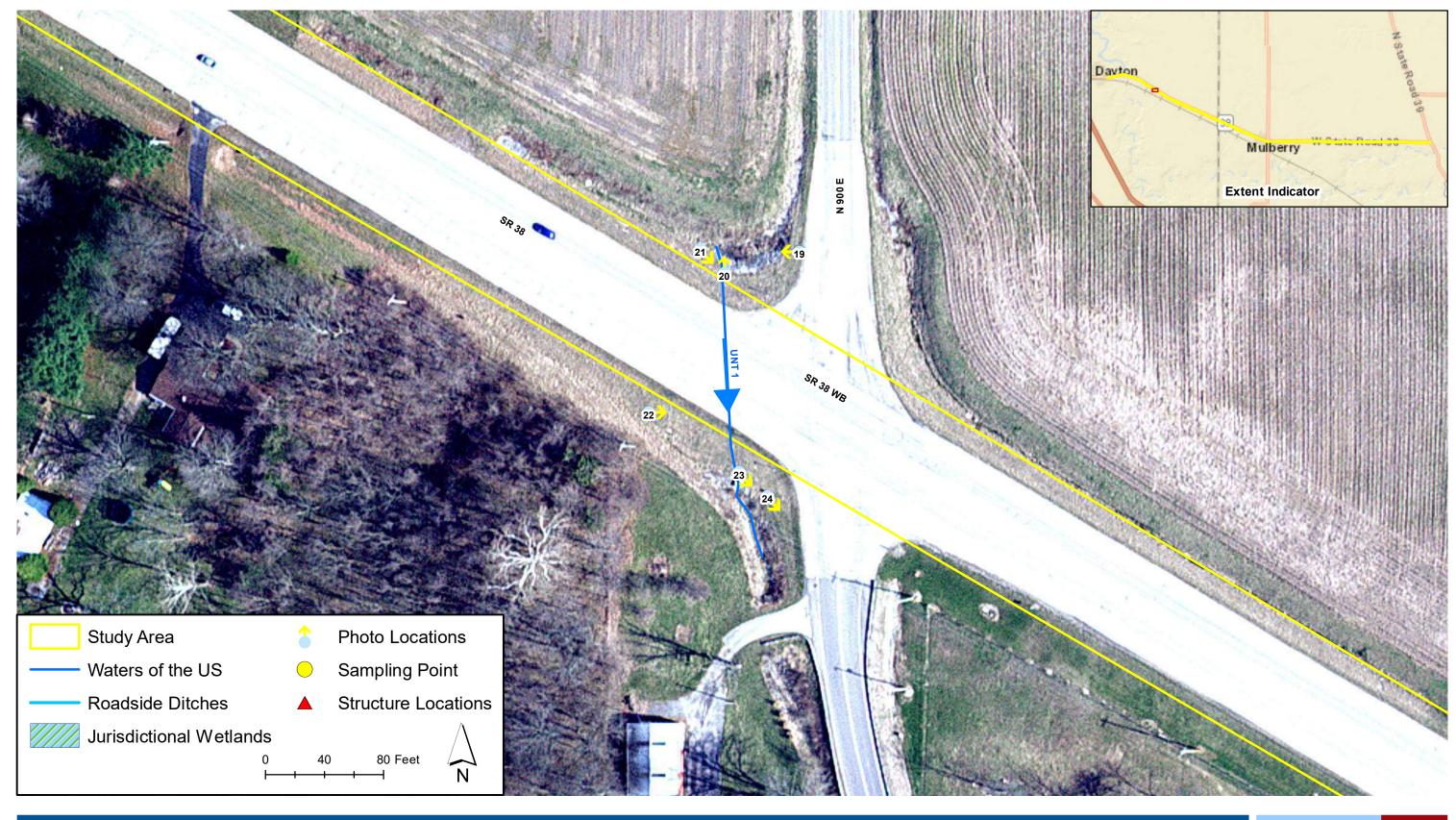


Figure 4 Delineated Features and Photo Orientation Map - Sheet 5

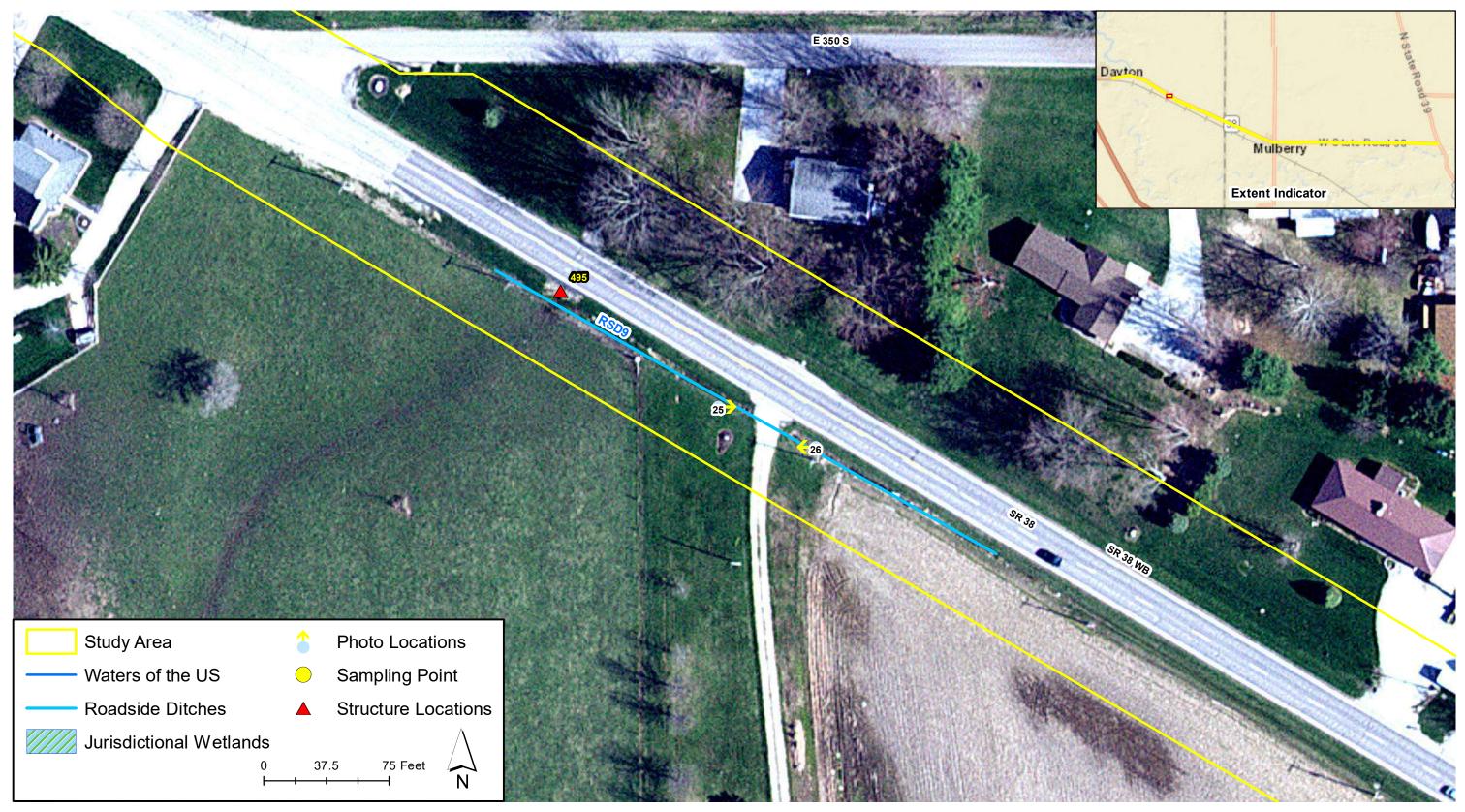














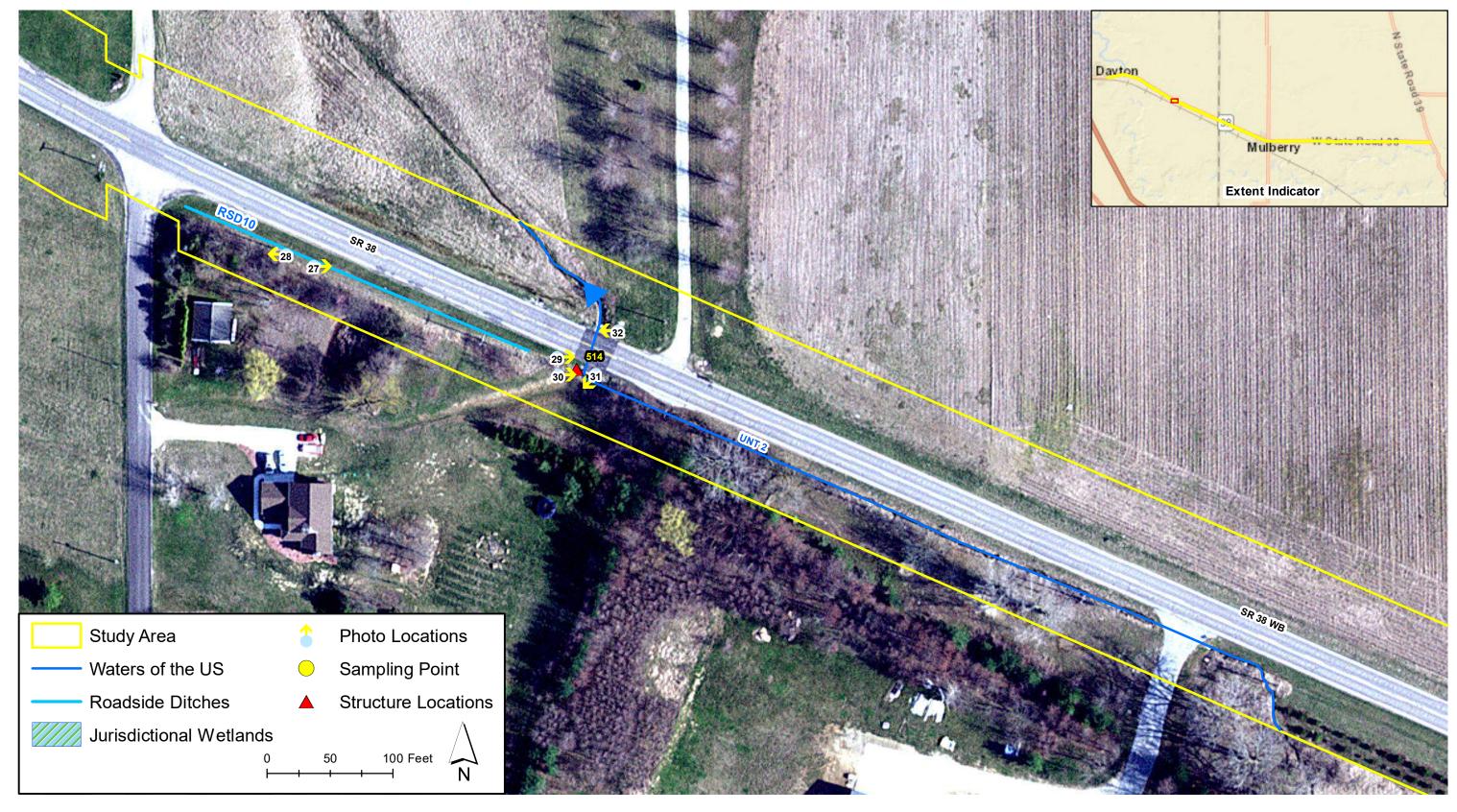
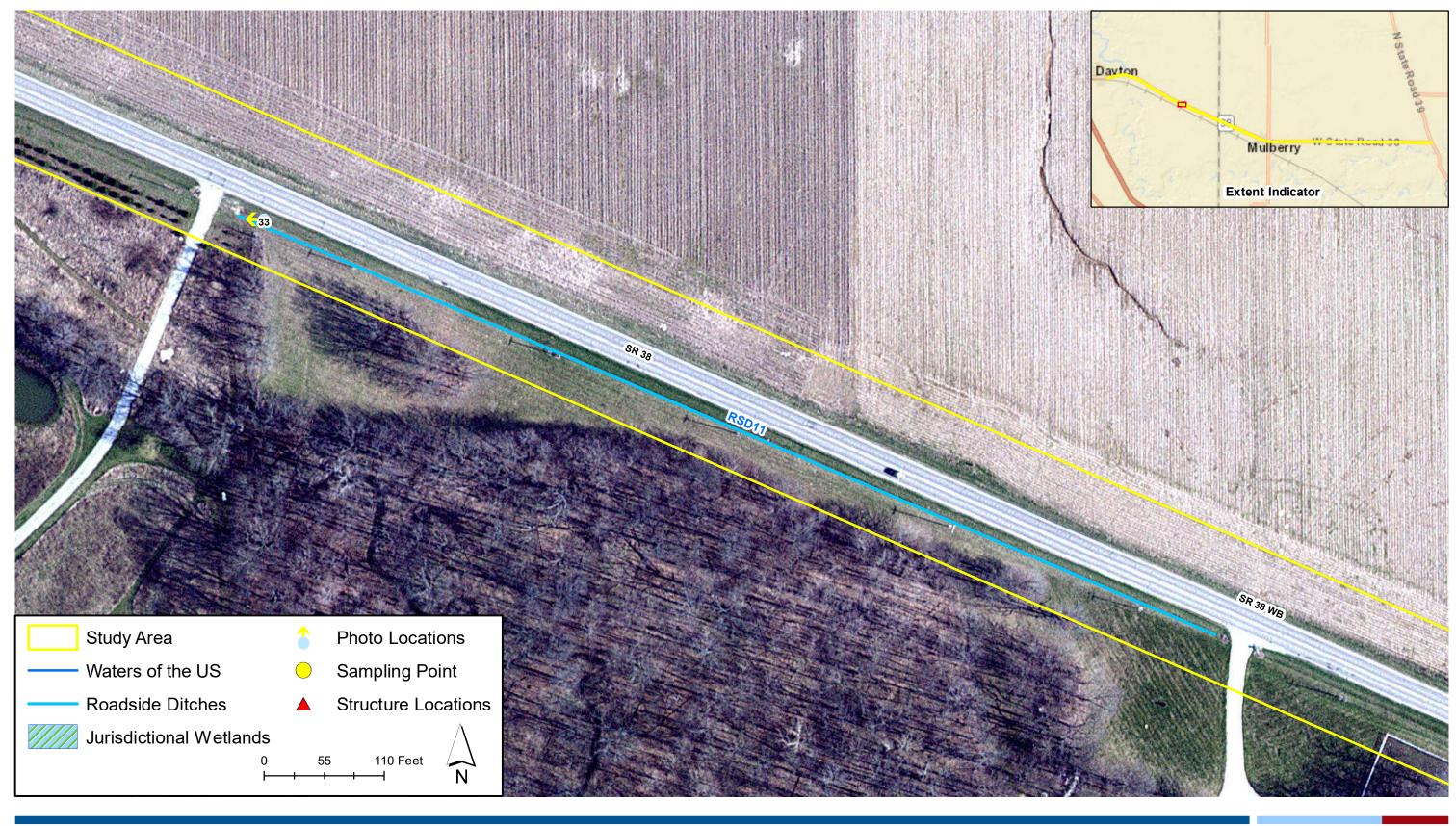


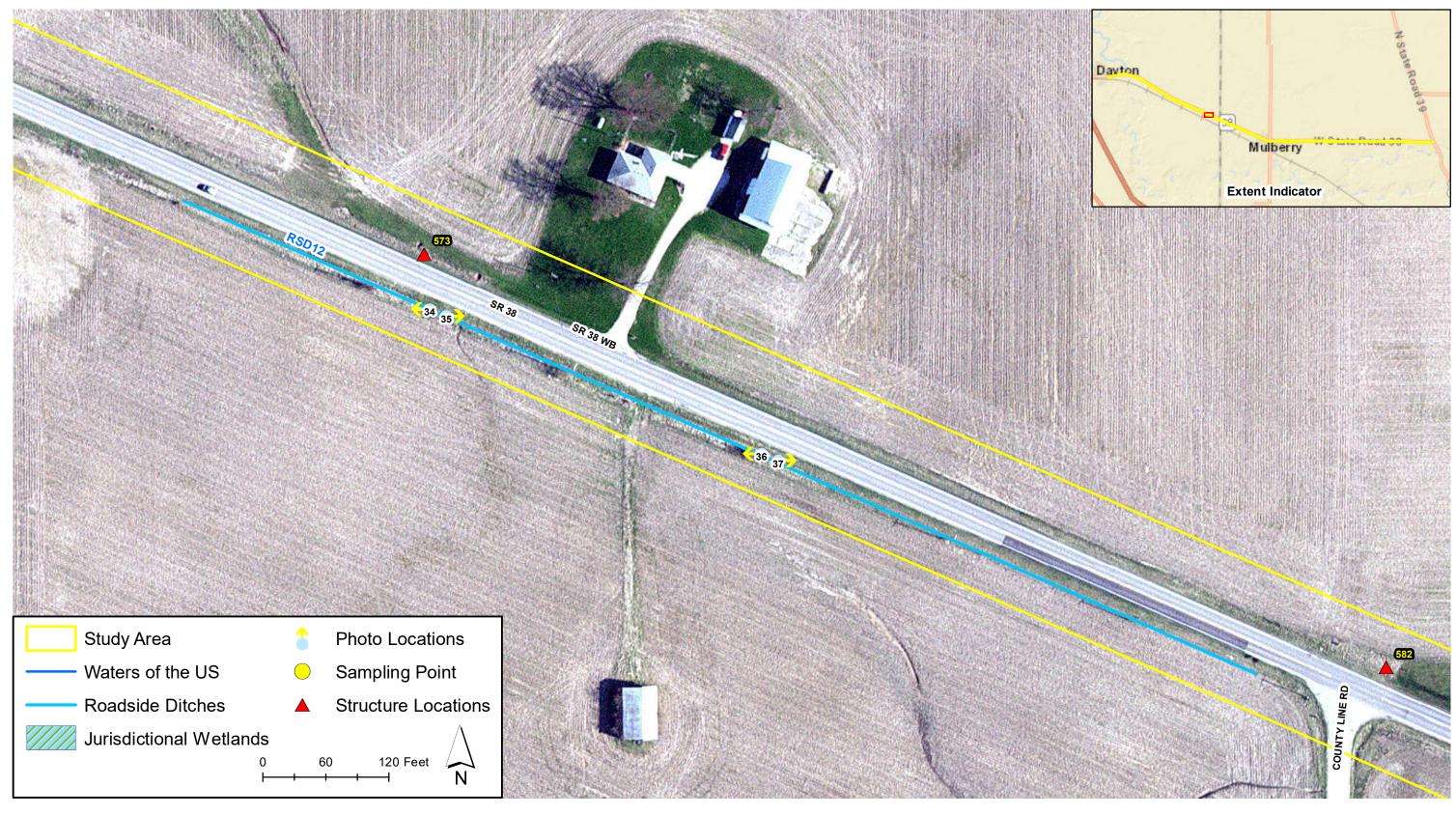


Figure 4 Delineated Features and Photo Orientation Map - Sheet 9



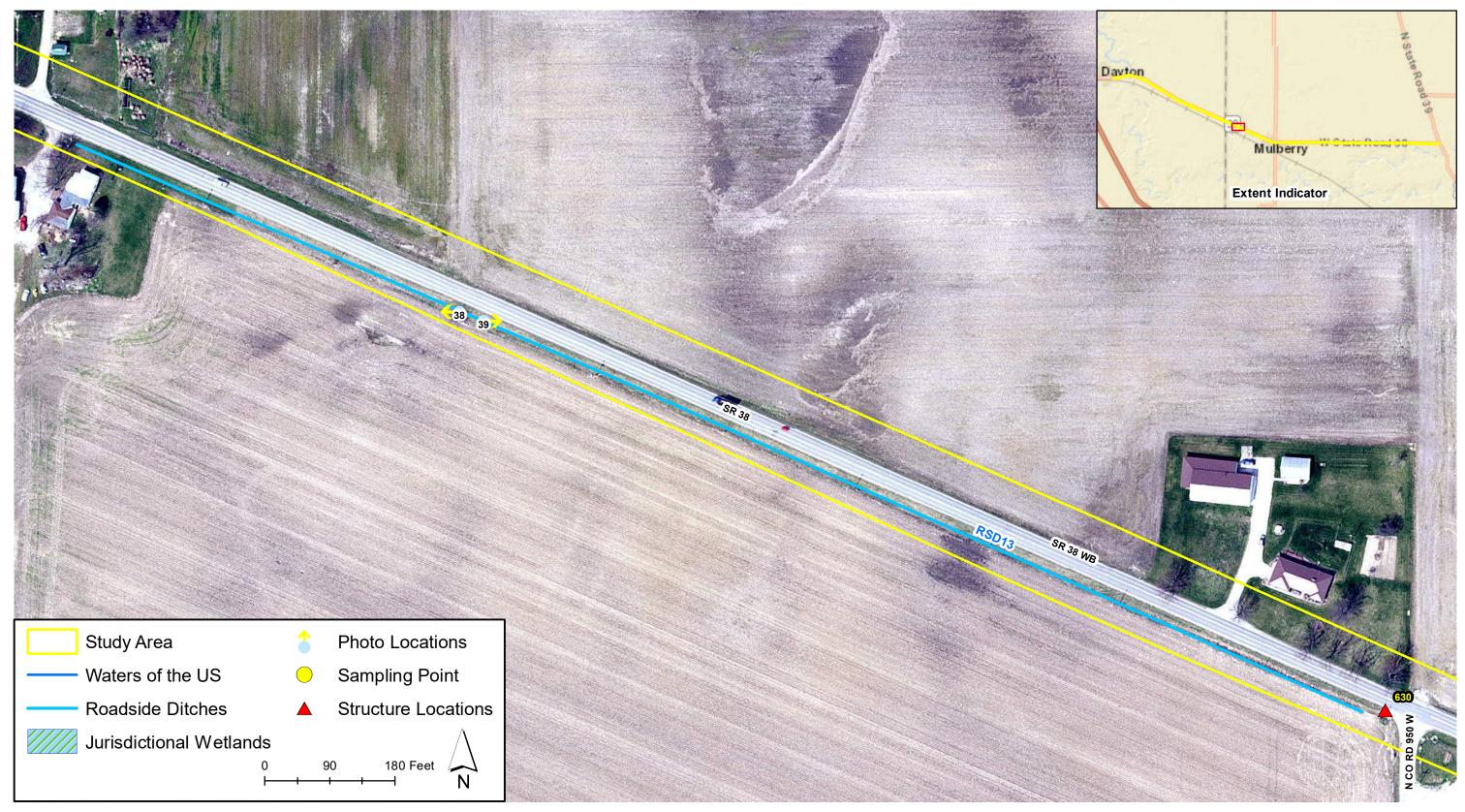






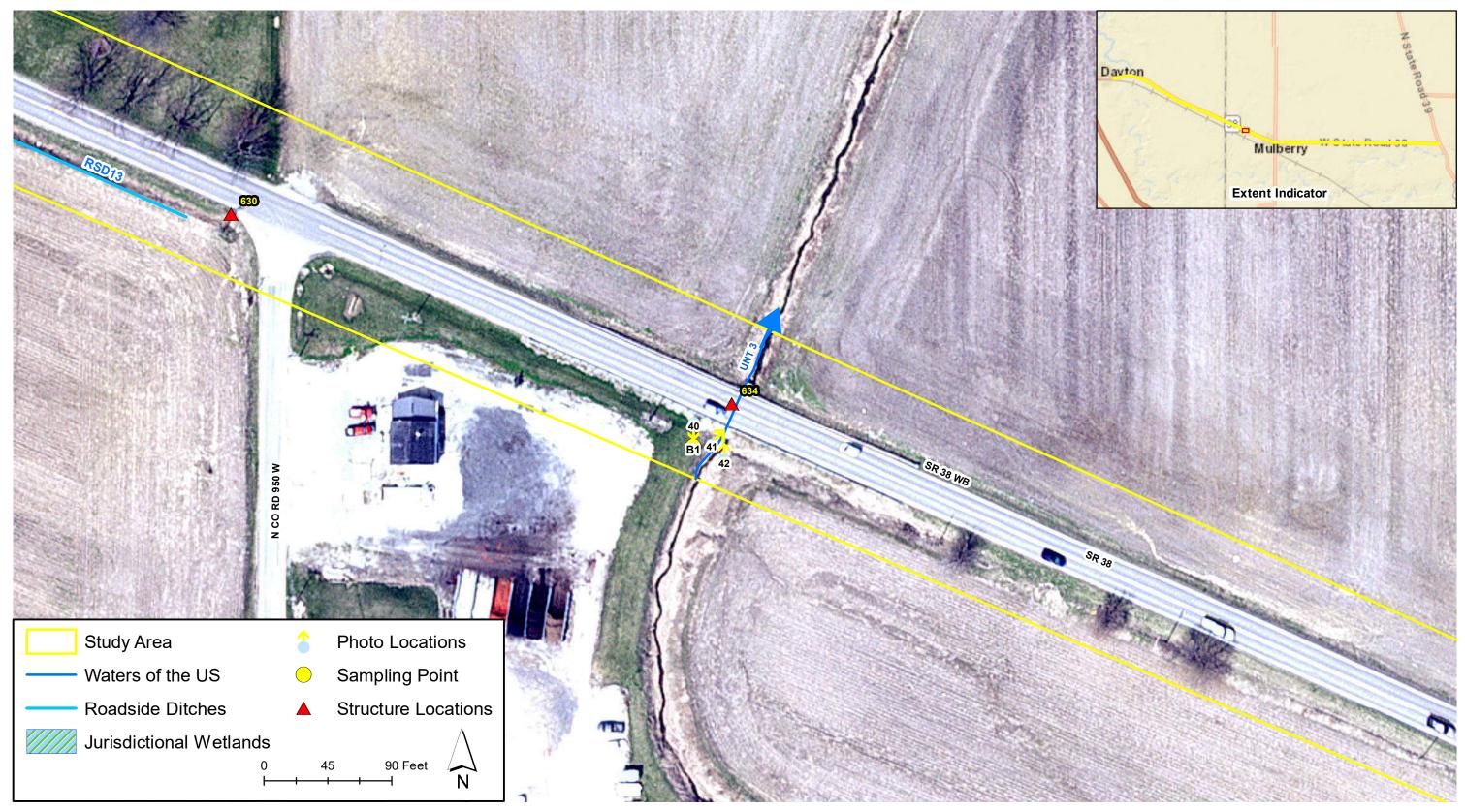




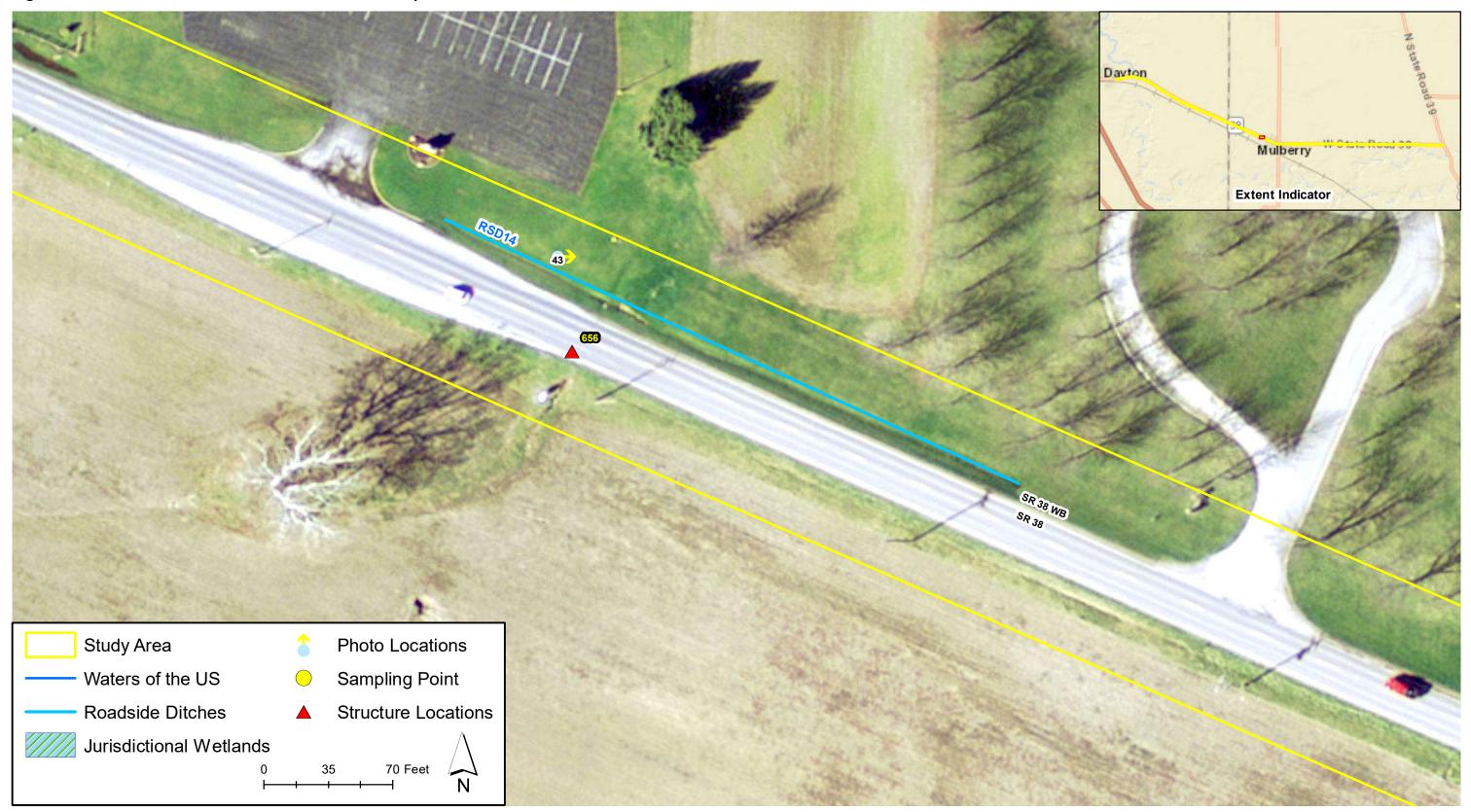














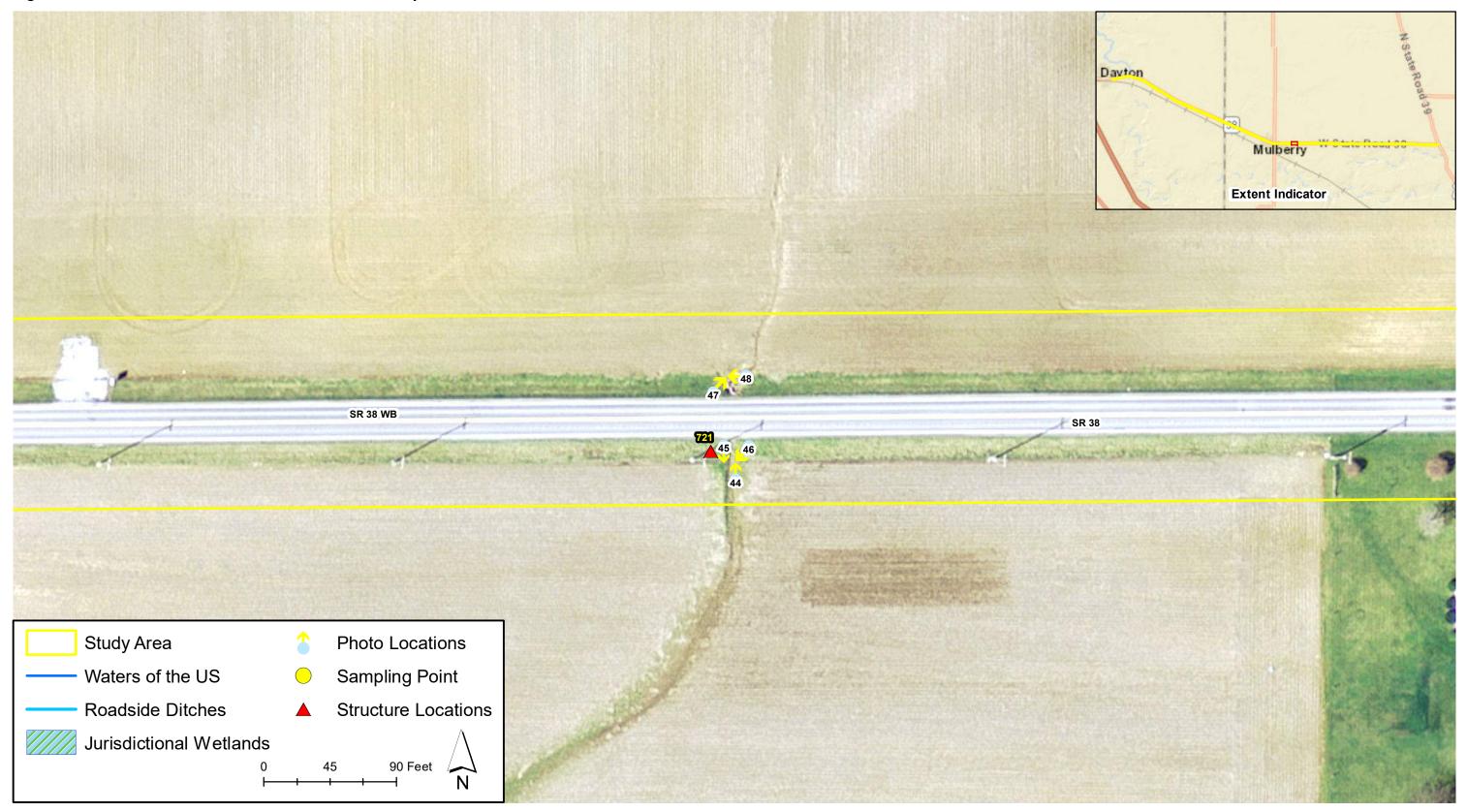
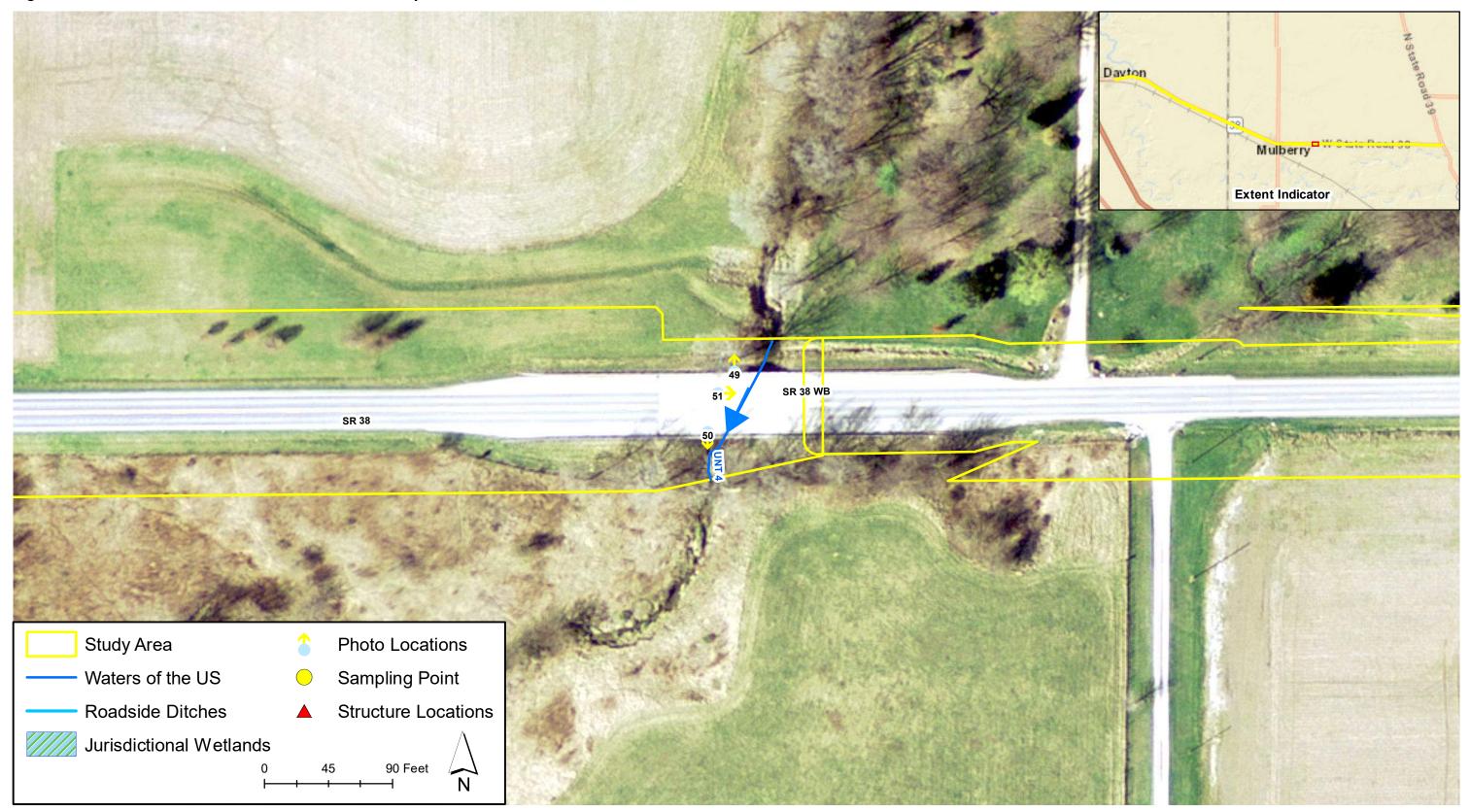
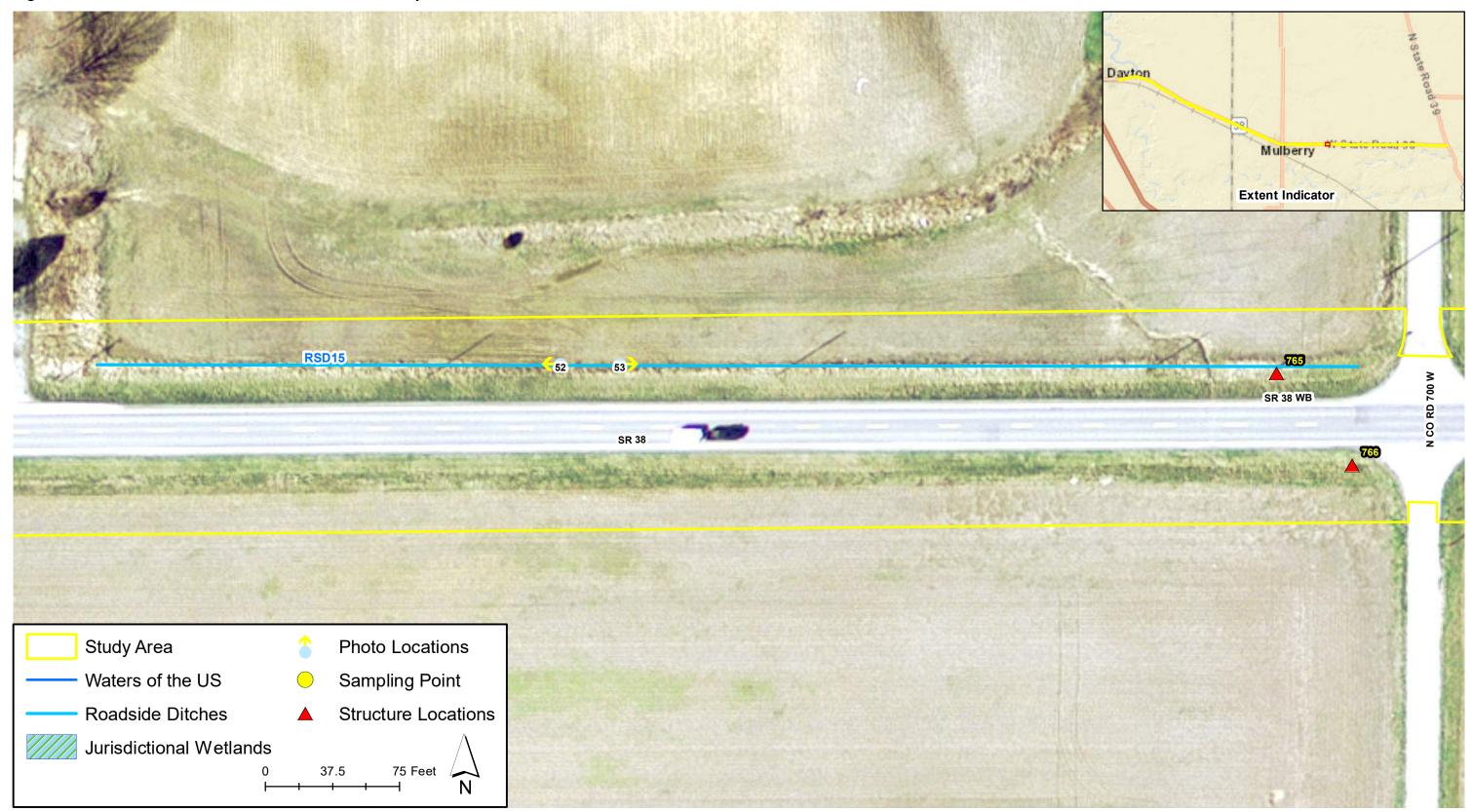




Figure 4 Delineated Features and Photo Orientation Map - Sheet 15









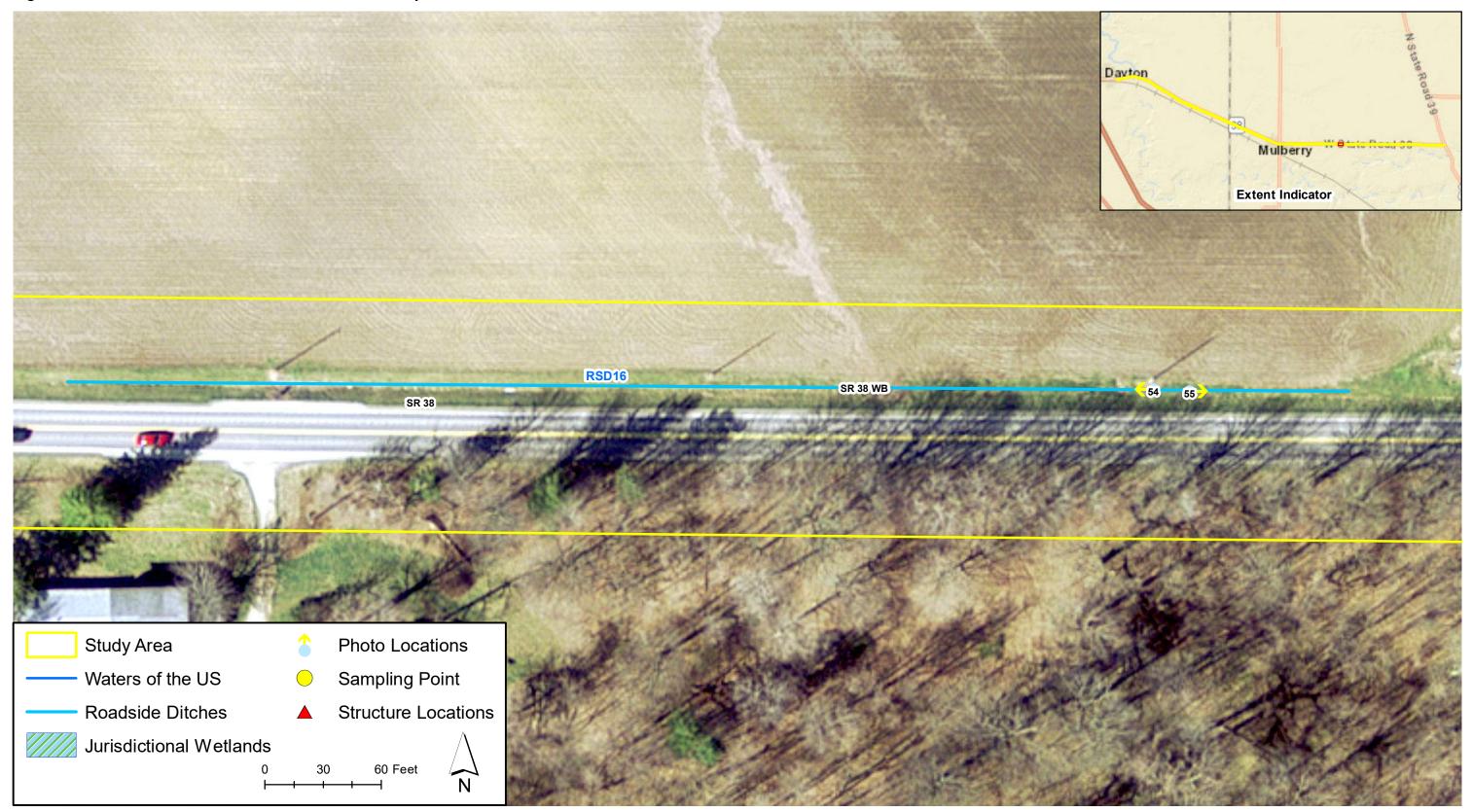
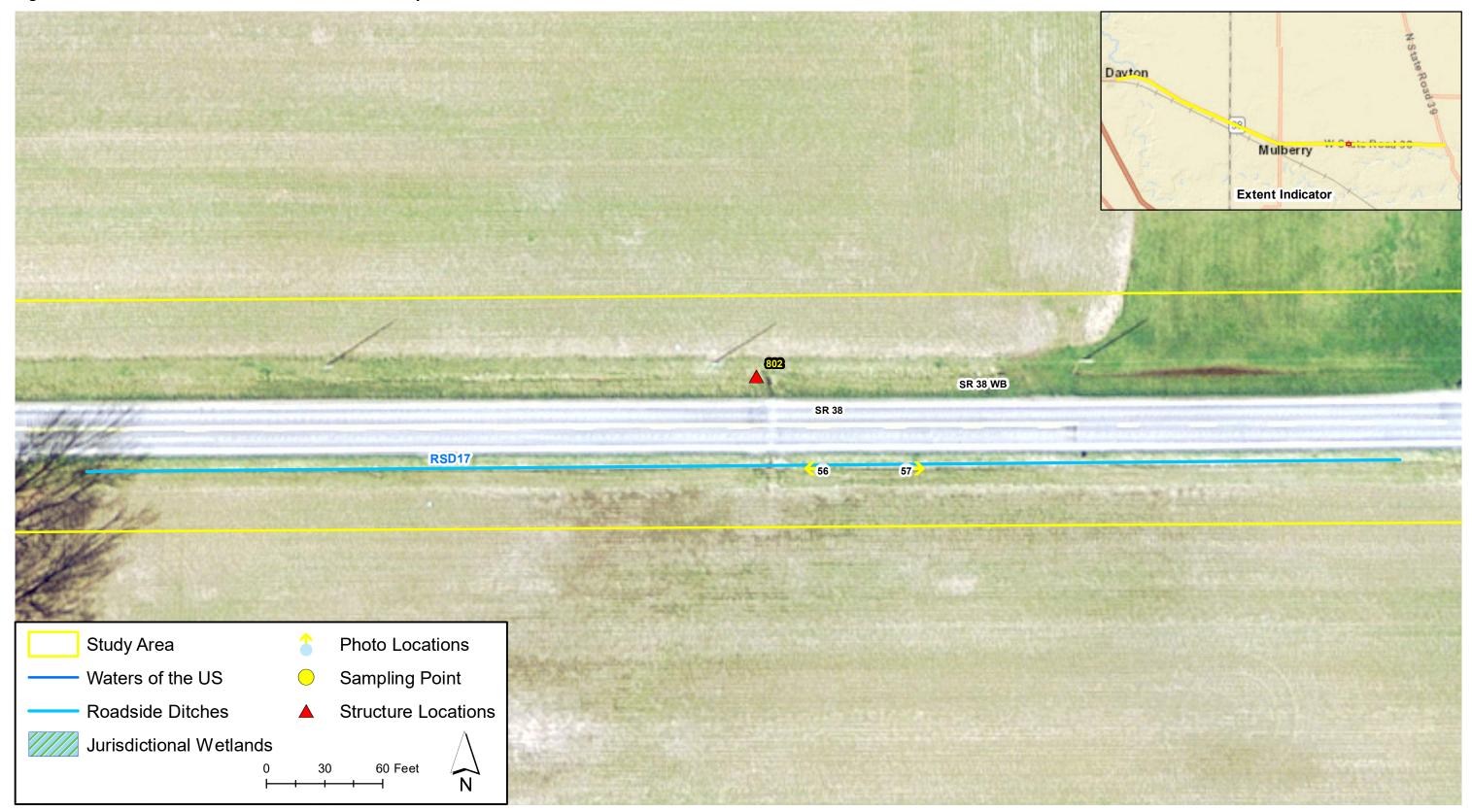




Figure 4 Delineated Features and Photo Orientation Map - Sheet 18





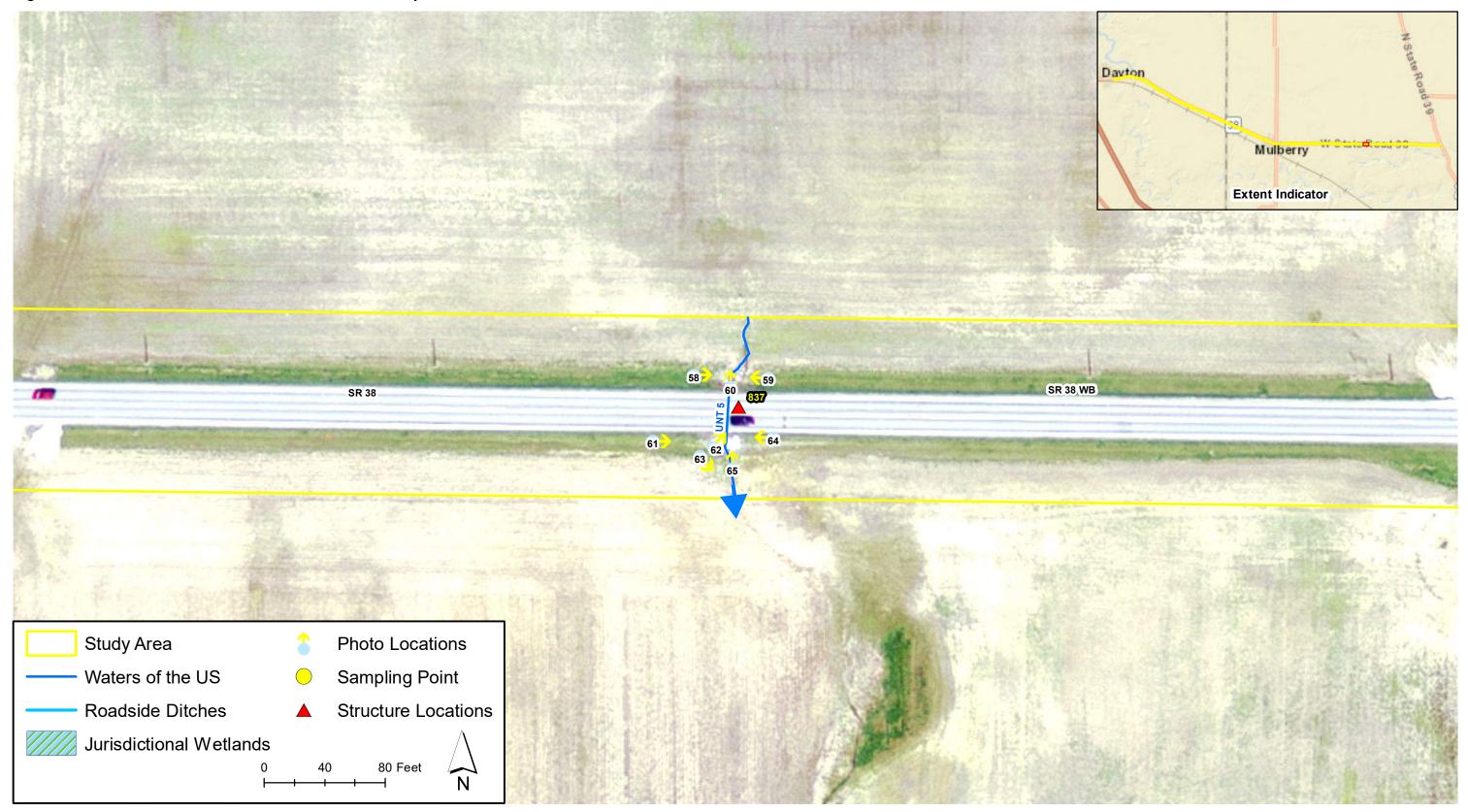








Figure 4 Delineated Features and Photo Orientation Map - Sheet 21

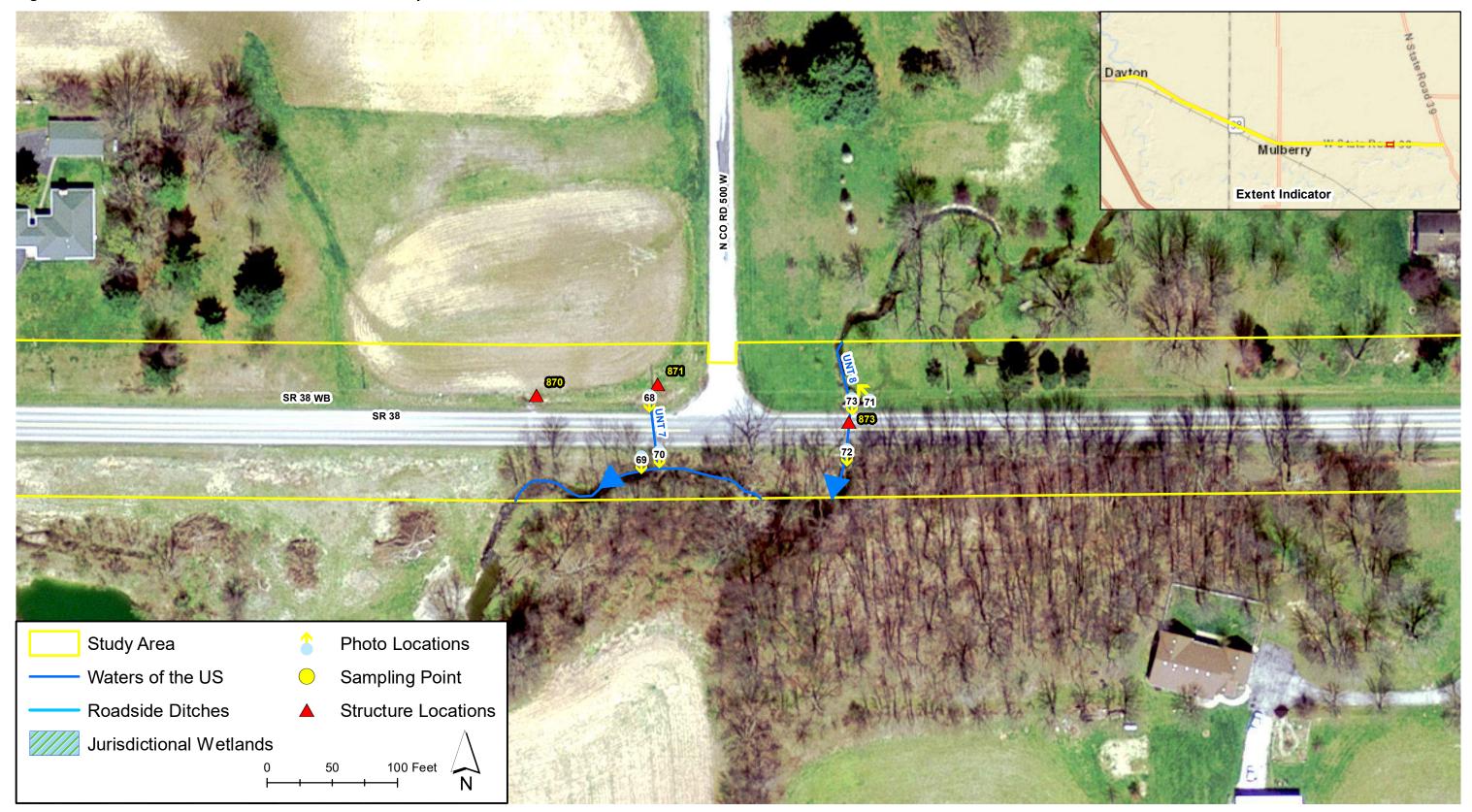




Figure 4 Delineated Features and Photo Orientation Map - Sheet 22

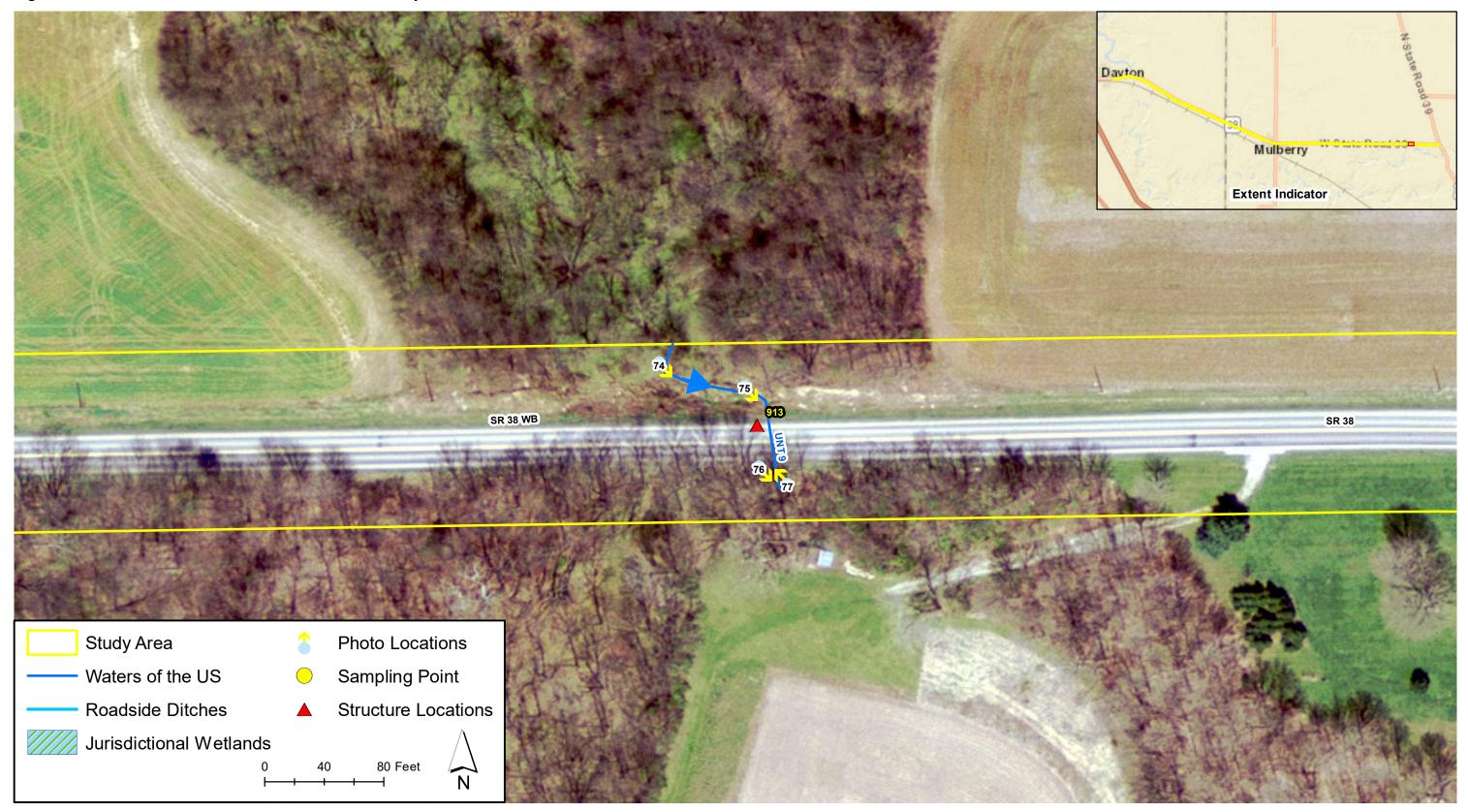




Figure 4 Delineated Features and Photo Orientation Map - Sheet 23A

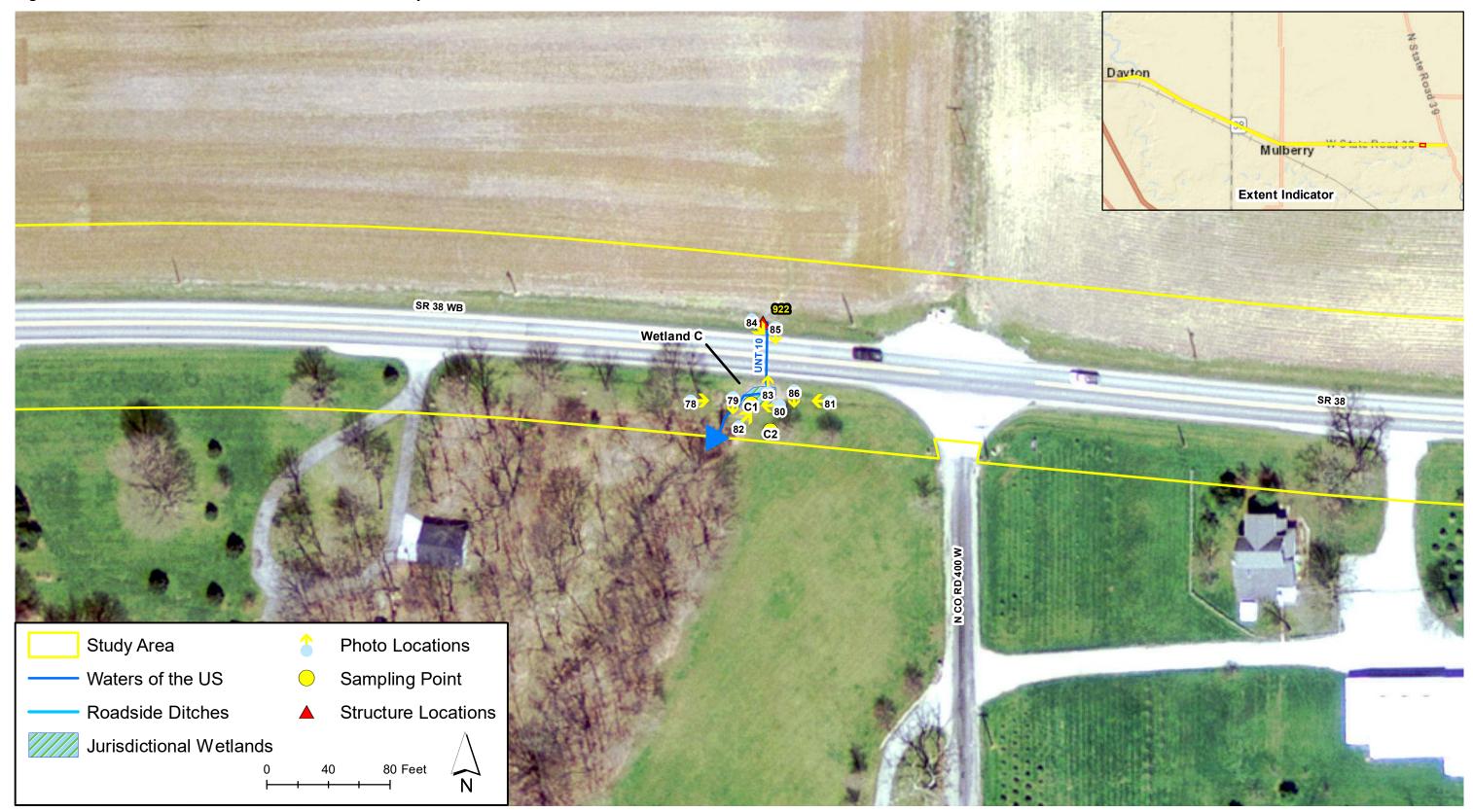




Figure 4 Delineated Features and Photo Orientation Map - Sheet 23B

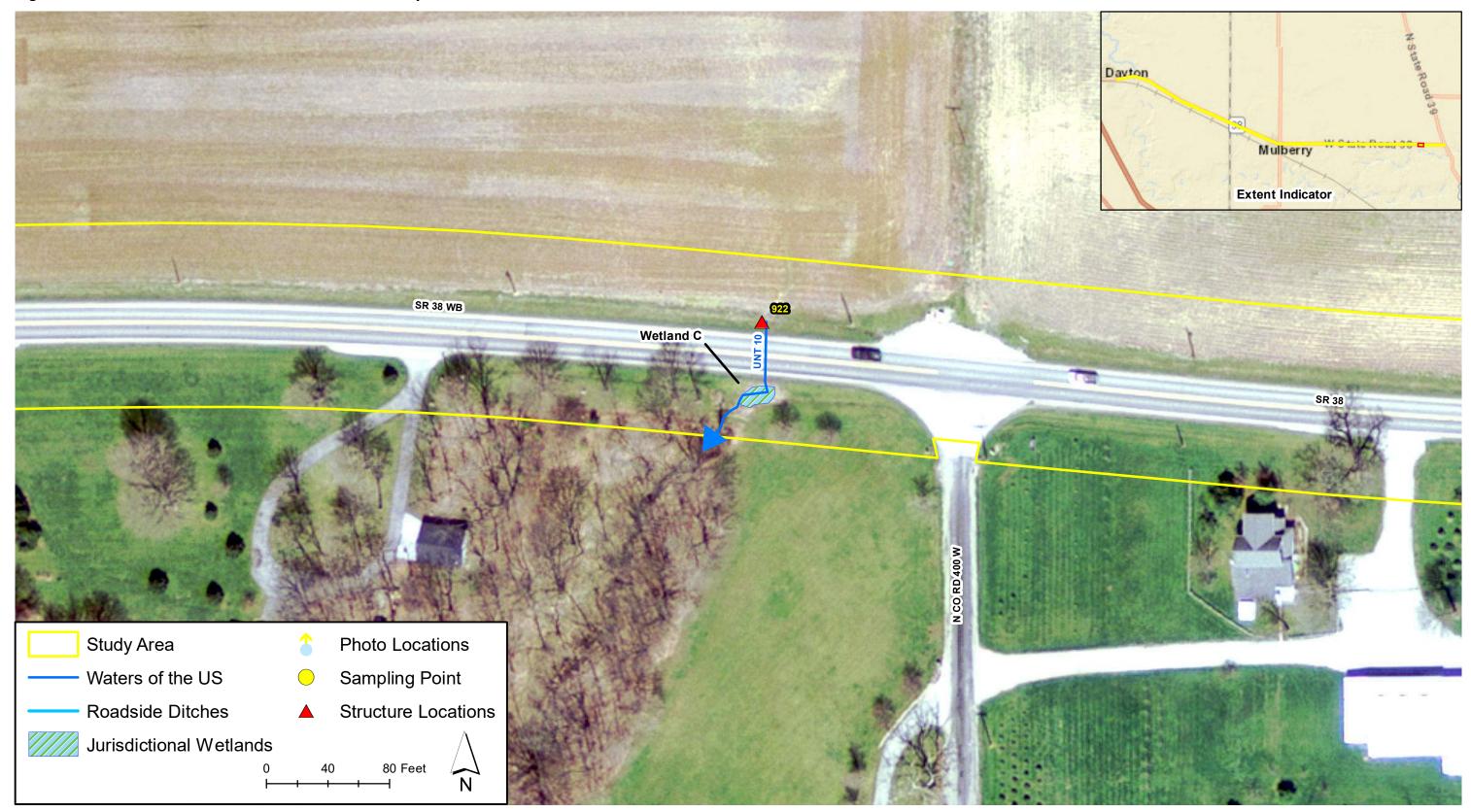




Figure 4 Delineated Features and Photo Orientation Map - Sheet 24

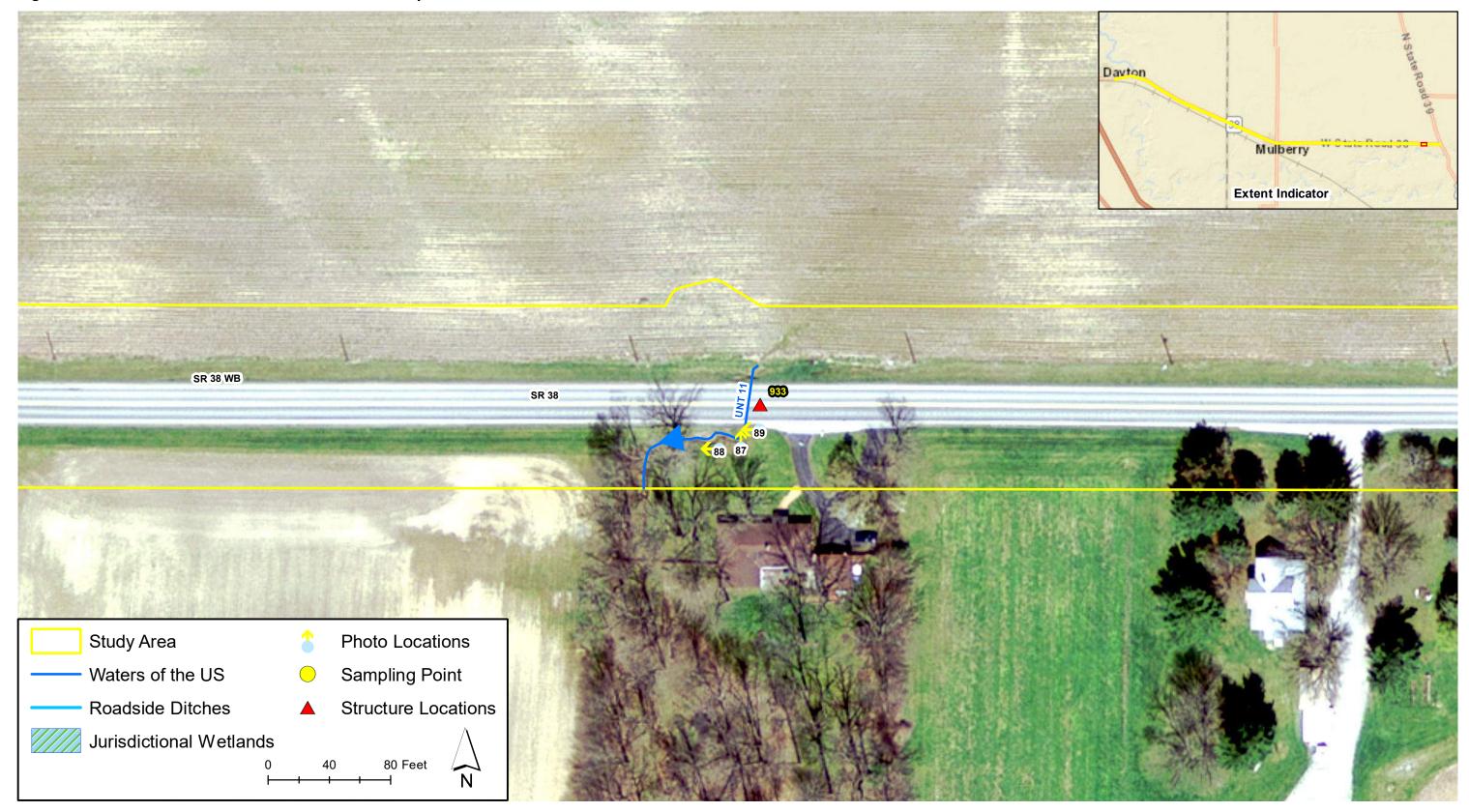




Figure 4 Delineated Features and Photo Orientation Map - Sheet 25

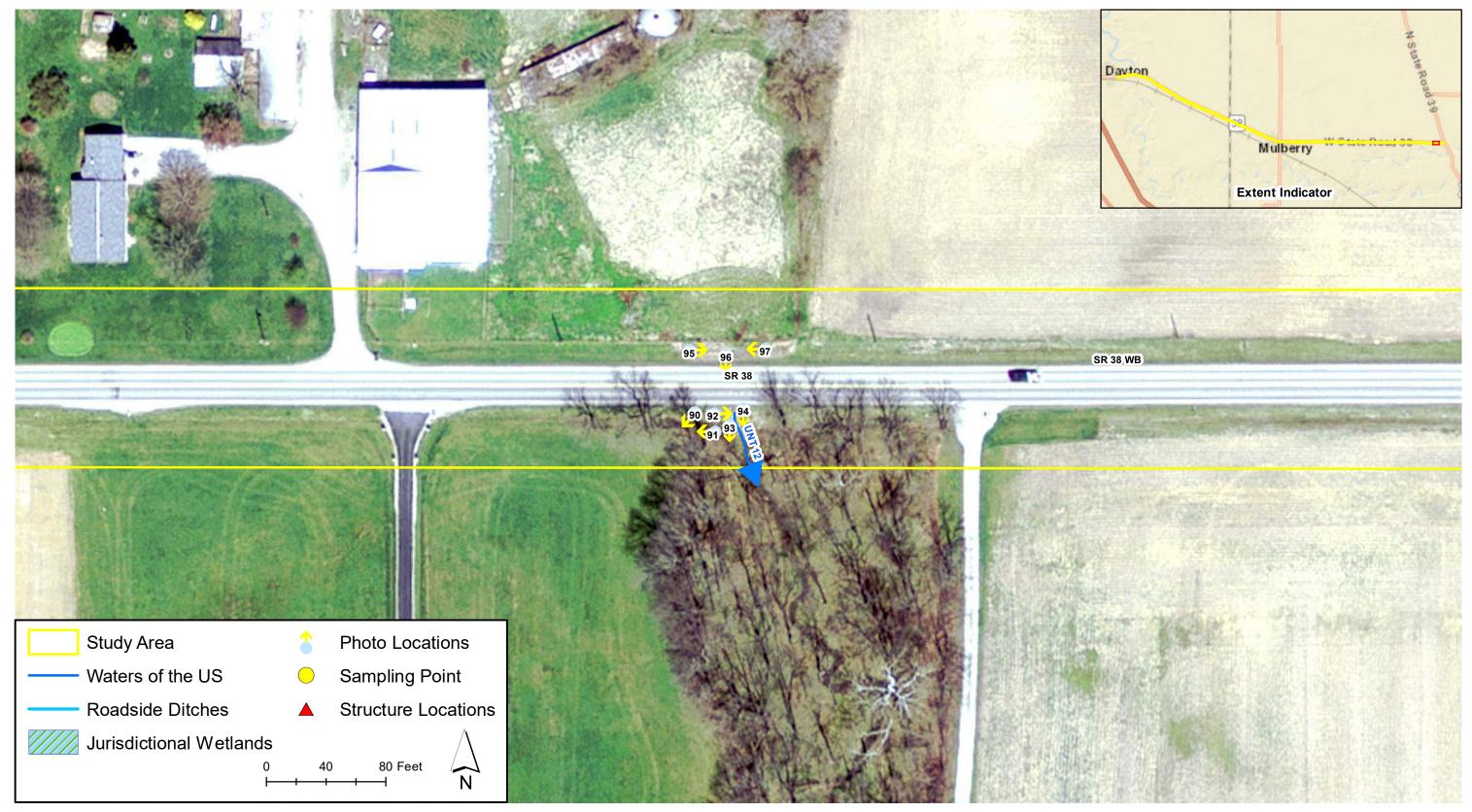










Photo 2: RSD1 along north side of SR 38, viewing west 09/01/2019 (Figure 4, Sheet 1)







Photo 3: RSD2 along north side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 1)

Photo 4: RSD3 along north side of SR 38, viewing west 06/20/2019 (Figure 4, Sheet 1)









Photo 6: RSD4 along south side of SR 38, viewing east12, 06/20/2019 (Figure 4, Sheet 1)







Photo 7: Upland Site A1 soil profile, 06/20/2019 (Figure 4, Sheet 2)

Photo 8: South Fork Wildcat Creek, viewing north, 06/18/2019 (Figure 4, Sheet 2)







Photo 9: South Fork Wildcat Creek, viewing south, 06/18/2019 (Figure 4, Sheet 2)

Photo 10: South Fork Wildcat Creek, viewing west, 06/18/2019 (Figure 4, Sheet 2)





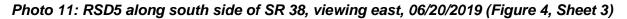




Photo 12: RSD5 along south side of SR 38, viewing northeast, 06/20/2019 (Figure 4, Sheet 3)









Photo 14: RSD5 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 3)





Photo 15: RSD6 along north side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 3)



Photo 16: RSD7 along north side of SR 38, viewing northwest, 06/20/2019 (Figure 4, Sheet 4)









Photo 18: RSD8 along south side of SR 38, viewing northwest, 06/20/2019 (Figure 4, Sheet 5)







Photo 19: UNT 1, viewing west, 02/11/2020 (Figure 4, Sheet 6)

Photo 20: UNT 1, viewing north, 02/11/2020 (Figure 4, Sheet 6)







Photo 21: UNT 1, viewing southeast, 06/18/2019 (Figure 4, Sheet 6)

Photo 22: UNT 1, viewing east, 02/11/2020 (Figure 4, Sheet 6)







Photo 23: UNT 1, viewing southeast, 02/11/2020 (Figure 4, Sheet 6)

Photo 24: UNT 1, viewing southeast, 02/11/2020 (Figure 4, Sheet 6)







Photo 25: RSD9 along south side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 7)

Photo 26: RSD9 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 7)





Photo 27: RSD10 along south side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 8)



Photo 28: RSD10 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 8)





Photo 29: UNT 2, viewing east, 02/11/2020 (Figure 4, Sheet 8)



Photo 30: UNT 2, viewing east, 02/11/2020 (Figure 4, Sheet 8)







Photo 31: UNT 2, viewing southwest, 02/11/2020 (Figure 4, Sheet 8)

Photo 32: UNT 2, viewing west, 02/11/2020 (Figure 4, Sheet 8)







Photo 33: RSD11 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 9)

Photo 34: RSD12 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 10)





Photo 35: RSD12 along south side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 10)



Photo 36: RSD12 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 10)





Photo 37: RSD12 along south side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 10)



Photo 38: RSD13 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 11)





Photo 39: RSD13 along south side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 11)



Photo 40: Upland Site B1, viewing south, 09/01/2019 (Figure 4, Sheet 12)







Photo 41: UNT 3, viewing northeast, 06/18/2019 (Figure 4, Sheet 12)

Photo 42: UNT 3, viewing north through culvert, 06/18/2019 (Figure 4, Sheet 12)





Photo 43: RSD14 along north side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 13)



Photo 44: Structure 721, viewing north, 06/18/2019 (Figure 4, Sheet 14)





Photo 45: Structure 721, viewing south, 02/11/2020 (Figure 4, Sheet 14)



Photo 46: Structure 721, viewing southwest, 02/11/2020 (Figure 4, Sheet 14)







Photo 47: Structure 721, viewing northeast, 02/11/2020 (Figure 4, Sheet 14)

Photo 48: Structure 721, viewing west, 02/11/2020 (Figure 4, Sheet 14)







Photo 49: UNT 4, viewing north, 06/18/2019 (Figure 4, Sheet 15)

Photo 50: UNT 4, viewing south, 06/18/2019 (Figure 4, Sheet 15)





Photo 51: UNT 4, viewing east, 06/18/2019 (Figure 4, Sheet 15)



Photo 52: RSD15 along north side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 16)





Photo 53: RSD15 along north side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 16)



Photo 54: RSD16 along north side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 17)





Photo 55: RSD16 along north side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 17)



Photo 56: RSD17 along south side of SR 38, viewing west, 06/20/2019 (Figure 4, Sheet 18)





Photo 57: RSD17 along south side of SR 38, viewing east, 06/20/2019 (Figure 4, Sheet 18)



Photo 58: UNT 5, viewing east, 02/11/2020 (Figure 4, Sheet 19)







Photo 59: UNT 5, viewing west, 02/11/2020 (Figure 4, Sheet 19)

Photo 60: UNT 5, viewing north, 02/11/2020 (Figure 4, Sheet 19)





Photo 61: UNT 5, viewing east, 02/11/2020 (Figure 4, Sheet 19)



Photo 62: UNT 5, viewing northeast, 02/11/2020 (Figure 4, Sheet 19)





Photo 63: UNT 5, viewing southeast, 02/11/2020 (Figure 4, Sheet 19)



Photo 64: UNT 5, viewing west, 02/11/2020 (Figure 4, Sheet 19)







Photo 65: UNT 5, viewing north, 06/18/2019 (Figure 4, Sheet 19)

Photo 66: UNT 6, viewing south through culvert, 06/18/2019 (Figure 4, Sheet 20)







Photo 67: UNT 6, viewing northwest, 06/18/2019 (Figure 4, Sheet 20)

Photo 68: UNT 7, viewing south, 06/18/2019 (Figure 4, Sheet 21)







Photo 69: UNT 7, viewing south vegetation, 06/18/2019 (Figure 4, Sheet 21)

Photo 70: UNT 7, viewing south, 06/18/2019 (Figure 4, Sheet 21)







Photo 71: UNT 8, viewing northwest, 06/18/2019 (Figure 4, Sheet 21)

Photo 72: UNT 8, viewing south, 06/18/2019 (Figure 4, Sheet 21)





Photo 73: UNT 8, viewing south through culvert, 06/18/2019 (Figure 4, Sheet 21)



Photo 74: UNT 9, viewing southeast, 02/11/2020 (Figure 4, Sheet 22)







Photo 75: UNT 9, viewing southeast, 02/11/2020 (Figure 4, Sheet 22)

Photo 76: UNT 9, viewing southeast, 02/11/2020 (Figure 4, Sheet 22)







Photo 77: UNT 9, viewing northwest, 06/18/2019 (Figure 4, Sheet 22)

Photo 78: UNT 10/Wetland C, viewing east, 02/11/2020 (Figure 4, Sheet 23)







Photo 79: UNT 10, viewing south, 02/11/2020 (Figure 4, Sheet 23)

Photo 80: UNT 10/Wetland C, viewing west, 02/11/2020 (Figure 4, Sheet 23)







Photo 81: UNT 10/Wetland C, viewing west, 02/11/2020 (Figure 4, Sheet 23)

Photo 82: UNT 10/Wetland C, viewing northeast, 06/20/2019 (Figure 4, Sheet 23)







Photo 83: UNT 10/Wetland C, viewing north, 06/20/2019 (Figure 4, Sheet 23)

Photo 84: UNT 10, viewing southeast, 02/11/2020 (Figure 4, Sheet 23)







Photo 85: UNT 10, viewing south, 02/11/2020 (Figure 4, Sheet 23)

Photo 86: Upland Site C2, viewing south, 09/01/2019 (Figure 4, Sheet 23)

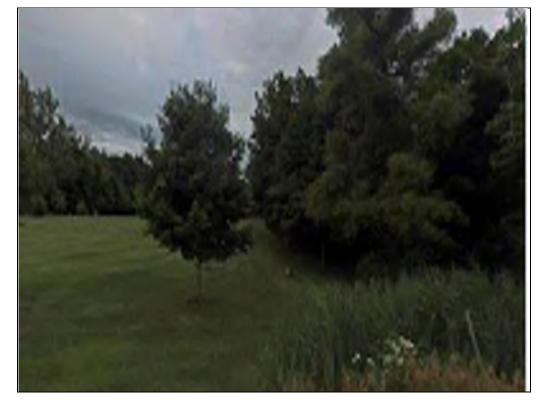






Photo 87: UNT 11, viewing north, 06/20/2019 (Figure 4, Sheet 24)

Photo 88: UNT 11, viewing west, 06/20/2019 (Figure 4, Sheet 24)







Photo 89: UNT 11, viewing west, 06/20/2019 (Figure 4, Sheet 24)

Photo 90: UNT 12, viewing southwest, 02/11/2020 (Figure 4, Sheet 25)







Photo 91: UNT 12, viewing west, 02/11/2020 (Figure 4, Sheet 25)

Photo 92: UNT 12, viewing east, 02/11/2020 (Figure 4, Sheet 25)







Photo 93: UNT 12, viewing south, 02/11/2020 (Figure 4, Sheet 25)

Photo 94: UNT 12, viewing south, 02/11/2020 (Figure 4, Sheet 25)



Hanson Professional Services Inc.





Photo 95: UNT 12, viewing east, 02/11/2020 (Figure 4, Sheet 25)

Photo 96: UNT 12, viewing south, 06/20/2019 (Figure 4, Sheet 25)



Hanson Professional Services Inc.





Photo 97: UNT 12, viewing west, 02/11/2020 (Figure 4, Sheet 25)

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Des # 1601074 SR 38 HMA Overlay and M	linor Structu	ral City/Cour	nty: Tippeca	anoe County	Sampling Date: 06/18 and 06/20/2019
Applicant/Owner: INDOT Crawfordsville District				State: IN	Sampling Point: A1
Investigator(s): Shawn Gibbs, Tamra Reece, Ali Whitehead Section, Township, Range: S4, T22, R3W					
Landform (hillside, terrace, etc.): Terrace		I	Local relief (concave, convex, none): d	concave
Slope (%): 0 Lat: 40.375472		Long: -	86.752354	-	Datum: NAD83
Soil Map Unit Name: Ou, Ouiatenon sandy loam, 0 - 2	percent slor				ication: PEM1A
Are climatic / hydrologic conditions on the site typical for			Yes X		lain in Remarks.)
Are Vegetation, Soil, or Hydrologys				Circumstances" present?	,
Are Vegetation, Soil, or Hydrologyr				plain any answers in Rer	
SUMMARY OF FINDINGS – Attach site ma	ap showir	ng samplin	ig point lo	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No	x x	Is the	e Sampled A	rea	
Hydric Soil Present? Yes No	X		n a Wetland		No <u>X</u>
Wetland Hydrology Present? Yes No	X				
Remarks:					
A test pit reached termination at approximaly 14 inche					
within the ditch area suggests the area was stablized	do and force	port the const		etion from the readurate	e lest pil would suggesi nd bridge the NIM/Lwetland is
VEGETATION – Use scientific names of pla					
Tree Stratum (Plot size: 20 feet)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	kehaat.
1. Celtis occidentalis	15	Yes	FAC		
2. Acer saccharum	15	Yes	FACU	Number of Dominant S Are OBL, FACW, or F	•
3. Acer pseudoplatanus	15	Yes	UPL	Total Number of Domi	
4. Morus alba	10	No	FAC	Across All Strata:	nant Species 9 (B)
5. Juglans nigra	5	No	FACU	Percent of Dominant S	
		=Total Cover		Are OBL, FACW, or F	•
Sapling/Shrub Stratum (Plot size: 10 feet)	,				·
1. Celtis occidentalis	15	Yes	FAC	Prevalence Index wo	rksheet:
2. Acer saccharum	10	Yes	FACU	Total % Cover of:	Multiply by:
3.				OBL species 0	x 1 =0
4.				FACW species 5	x 2 = 10
5				FAC species 55	5 x 3 = 165
	25	=Total Cover		FACU species 90	
Herb Stratum (Plot size: 5 feet)				UPL species 15	5 x 5 = 75
1. Lonicera japonica	35	Yes	FACU	Column Totals: 16	()
2. Solidago altissima	15	Yes	FACU	Prevalence Index =	= B/A =3.70
3. Toxicodendron radicans	15	Yes	FAC		
4. Carduus sp.	5	No	FACU	Hydrophytic Vegetati	
5. <u>Schedonorus arundinaceus</u>	5	No	FACU		Hydrophytic Vegetation
6				2 - Dominance Te	
7				3 - Prevalence Ind	
8					Adaptations ¹ (Provide supporting s or on a separate sheet)
9					pphytic Vegetation ¹ (Explain)
10	75	=Total Cover			
Woody Vine Stratum (Plot size: 5 feet)	<u> </u>			'Indicators of hydric so be present, unless dist	bil and wetland hydrology must turbed or problematic.
1. Vitis riparia	5	Yes	FACW		
2.		100	17.01.	Hydrophytic Vegetation	
	5	=Total Cover		Present? Yes	No X
Remarks: (Include photo numbers here or on a separ					
Terrarka. (include proto numbers here of on a separ	ale sheel.)				

SOIL

Profile Desc Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	97	10YR 4/6	3	С	М	Loamy/Clayey	
12-14	10YR 2/1	97	10YR 4/6	3	С	М	Loamy/Clayey	
¹ Type: C=Co	oncentration, D=Dep	letion, RM	l=Reduced Matrix, N	NS=Masl	ked Sand	d Grains	. ² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)		Coast P	rairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			Iron-Ma	nganese Masses (F12)
Black His	stic (A3)		Stripped N	latrix (Se	5)		Red Pa	rent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very Sh	allow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Other (E	Explain in Remarks)
2 cm Mu	,		Loamy Gle	-				
	Below Dark Surface	∍ (A11)	Depleted I	``	,		0	
	rk Surface (A12)		Redox Da		` '			of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted I)		hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pression	s (F8)		unless o	disturbed or problematic.
Restrictive I Type: Depth (in Remarks:	stone, gravel a nches):	nd riprap 14		- 41 - 141		lite by fee	Hydric Soil Present?	Yes NoX
Type: Depth (in Remarks: The shovel p	stone, gravel a nches):	nd riprap 14	4 inches bgs. The re	estircitive	e layer is	likely fro		Yes <u>No X</u> e adjacent raodway and bridge and
Type: Depth (ir Remarks: The shovel p indicates hig	stone, gravel a nches): probe reached termin hly disturbed soils.	nd riprap 14	4 inches bgs. The re	estircitive	e layer is	likely fro		
Type: Depth (ir Remarks: The shovel p indicates hig	stone, gravel and anches):	nd riprap 14	4 inches bgs. The re	estircitive	e layer is	likely fro		
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd	stone, gravel a nches): probe reached termin hly disturbed soils.	nd riprap			alayer is	likely fro	om the construction of the	
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic	stone, gravel and anches):	nd riprap		apply)			om the construction of the	e adjacent raodway and bridge and
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyo Primary Indic	stone, gravel a nches): probe reached termin hly disturbed soils. PGY drology Indicators: cators (minimum of c	nd riprap	ired; check all that	apply) ined Lea	ives (B9)		om the construction of the <u>Secondary I</u> Surface	e adjacent raodway and bridge and
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyo Primary Indic	stone, gravel a nches): probe reached termin hly disturbed soils. GY drology Indicators: cators (minimum of c Water (A1) ter Table (A2)	nd riprap	i <u>red; check all that</u> Water-Sta	apply) ined Lea auna (B1	ives (B9) 3)		om the construction of the <u>Secondary I</u> Surface Drainag	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic	stone, gravel a nches): probe reached termin hly disturbed soils. GY drology Indicators: cators (minimum of c Water (A1) ter Table (A2)	nd riprap	<u>uired; check all that</u> Water-Sta Aquatic Fa	apply) ined Lea auna (B1 itic Plant	aves (B9) 3) s (B14)		om the construction of the Secondary I Surface Drainag Dry-Sea Crayfish	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) b Burrows (C8)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatic Water M Sedimen	stone, gravel and inches): probe reached termininhly disturbed soils. GGY drology Indicators: cators (minimum of content of	nd riprap	iired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 titc Plant Sulfide (Rhizosph	ives (B9) 3) s (B14) Ddor (C1 eres on) Living Ro	om the construction of the <u>Secondary I</u> <u>Surface</u> Drainag Dry-Sea <u>Crayfish</u> pots (C3) Saturati	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyo Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep	stone, gravel and inches): probe reached terminic hly disturbed soils. GGY drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2) oosits (B3)	nd riprap	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	ives (B9) 3) s (B14) Ddor (C1 eres on ced Iron) Living Ro	om the construction of the <u>Secondary I</u> <u>Surface</u> Drainag Dry-Sea <u>Crayfish</u> bots (C3) <u>Stunted</u>	e adjacent raodway and bridge and <u>ndicators (minimum of two required</u> Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyo Primary India Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma	stone, gravel a nches): probe reached termin hly disturbed soils. GY drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2) nosits (B3) t or Crust (B4)	nd riprap	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	apply) ined Lea auna (B1 ttic Plant Sulfide C Rhizosph of Reduc n Reduc	ives (B9) 3) s (B14) Ddor (C1 eres on ced Iron tion in Ti) Living Ro	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep	stone, gravel a nches): probe reached termin hly disturbed soils. GY drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) nosits (B3) t or Crust (B4) osits (B5)	nd riprap	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc n Reduc : Surface	ives (B9) 3) s (B14) Ddor (C1 eres on ced Iron tion in Ti tion in Ti) Living Ro	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and <u>ndicators (minimum of two required</u> Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic	stone, gravel a nches): probe reached termin hly disturbed soils. GGY drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial I	nd riprap 14 pation at 14 one is requ	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat	ives (B9) 3) s (B14) Ddor (C1 eres on l ced Iron tion in Ti (C7) a (D9)) Living Ri (C4) illed Soil	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyo Primary India Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	stone, gravel and nches): probe reached terminic hly disturbed soils. GGY drology Indicators: cators (minimum of con- Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In- Vegetated Concave	nd riprap 14 pation at 14 one is requ	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat	ives (B9) 3) s (B14) Ddor (C1 eres on l ced Iron tion in Ti (C7) a (D9)) Living Ri (C4) illed Soil	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	stone, gravel and here solves is a stone, gravel and here solves is a store of the solution of	nd riprap 14 nation at 14 one is requ	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc n Reduc s Surface Well Dat olain in R	ives (B9) 3) s (B14) Ddor (C1 eres on l ced Iron tion in Ti (C7) a (D9) eemarks)) Living R((C4) illed Soil	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Surface Wat	stone, gravel and here solves and here solves and here and the solution of the	nd riprap 14 pation at 14 pone is requ magery (B s)	iired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 57) Gauge or B8) Other (Exp	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc con Reduc Surface Well Dat blain in R Depth (ii	ives (B9) 3) s (B14) Ddor (C1 eres on l ced Iron tion in Ti (C7) a (D9) Remarks) nches): _) Living R((C4) illed Soil	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water	stone, gravel and here solves and here solves and here solves and the solution of the solution	nd riprap 14 pation at 14 pone is required pone is required p	iired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck (7) Gauge or B8) Other (Exp No x No x	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc s Surface Well Dat blain in R Depth (ii Depth (ii	ives (B9) 3) s (B14) Ddor (C1 eres on l ced Iron tion in Ti (C7) a (D9) cemarks) cemarks): nches):) Living R((C4) illed Soil	m the construction of the Secondary I Surface Drainag Dry-Sea Crayfish pots (C3) Saturati Stunted s (C6) FAC-Ne	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water Water Table Saturation P	stone, gravel and heres): probe reached terminic here soils. PGY drology Indicators: cators (minimum of consecutive) Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) nosits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yee resent? Yee resent? Yee	nd riprap 14 pation at 14 pone is required pone is required p	iired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck (7) Gauge or B8) Other (Exp No x No x	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc con Reduc Surface Well Dat blain in R Depth (ii	ives (B9) 3) s (B14) Ddor (C1 eres on l ced Iron tion in Ti (C7) a (D9) cemarks) cemarks): nches):) Living R((C4) illed Soil	m the construction of the <u>Secondary I</u> Surface Drainag Dry-Sea Crayfish pots (C3) Stunted s (C6) Geomo	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wate Water Table Saturation P (includes cap	stone, gravel and heres): probe reached terminic here you and here yo	nd riprap 14 hation at 14 one is requ magery (B s ss ss	ired: check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Exp No <u>x</u> No <u>x</u>	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (in Depth (in	ives (B9) 3) s (B14) Odor (C1 eres on l ced Iron titon in Ti (C7) a (D9) temarks) nches): nches):) Living R((C4) illed Soil	Secondary I	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Type: Depth (ir Remarks: The shovel p indicates hig HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wate Water Table Saturation P (includes cap	stone, gravel and heres): probe reached terminic here soils. PGY drology Indicators: cators (minimum of consecutive) Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) nosits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yee resent? Yee resent? Yee	nd riprap 14 hation at 14 one is requ magery (B s ss ss	ired: check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Exp No <u>x</u> No <u>x</u>	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (in Depth (in	ives (B9) 3) s (B14) Odor (C1 eres on l ced Iron titon in Ti (C7) a (D9) temarks) nches): nches):) Living R((C4) illed Soil	Secondary I	e adjacent raodway and bridge and ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Des # 1601074 SR 38 HMA Overlay and M	linor Structural	City/Count	ty: Clinton C	County	Sampling Date:	06/18 and 06/20/2019
Applicant/Owner: INDOT Crawfordsville District				State: IN	Sampling Point:	B1
Investigator(s): Shawn Gibbs, Tamra Reece, Ali Whiteh	ead	Section, To	ownship, Rar	nge: S18, T22, R2W		
Landform (hillside, terrace, etc.): Terrace		L(ocal relief (co	oncave, convex, none):	concave	
Slope (%): 0 Lat: 40.350185		Long: -8	6.682911		Datum: NAD83	
Soil Map Unit Name: MX, Milford silty clay loam, 0 - 2 p	ercent slope			NWI classif	ication: None	
Are climatic / hydrologic conditions on the site typical fo	or this time of y	/ear? Y	res X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soilx_, or Hydrologys	ignificantly dis	sturbed? Ar	e "Normal C	ircumstances" present?		
Are Vegetation, Soil, or Hydrologyn				blain any answers in Rer	·	
SUMMARY OF FINDINGS – Attach site ma				-		ures, etc.
Hydrophytic Vegetation Present? Yes No	X	Is the s	Sampled Are	92		
· · · · · · · · · · · · · · · · · · ·	X		a Wetland?		No_X_	
	Х					
Remarks:						
The data point was taken adjacent to a vegetated drain surrounded by mown lawns and agricultural fields. Th						
VEGETATION – Use scientific names of plan	nts.					
Tree Stratum (Plot size: 20 feet)		Dominant Species?	Indicator Status	Dominance Test wor	kshaat.	
1. (Flot size. <u>20 leet</u>)	/0 00001	Opecico.	Olalus	Number of Dominant S		
2.				Are OBL, FACW, or F.	•	(A)
3.				Total Number of Domi	nant Species	
4				Across All Strata:	3	3(B)
5	=			Percent of Dominant S	•	
Carling/Chruh Stratum (Digt size: 10 feat)	=I	otal Cover		Are OBL, FACW, or F	AC: <u>33.</u>	<u>3%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 10 feet) 1.			F	Prevalence Index wo	rksheet.	
2.				Total % Cover of:		ov:
3.				OBL species 30		
4.				FACW species 15		
5				FAC species 10) x 3 = 3	0
	=T	otal Cover		FACU species 25		
Herb Stratum (Plot size: 5 feet)				UPL species 20		
1. Typha latifolia	30	Yes	OBL	Column Totals: 10	()	90 (B)
2. Bromus inermis	25	Yes	FACU	Prevalence Index =	= B/A = 2.90	
3. Asclepias longifolia		Yes	UPL	·· · · · · · · · · · · · · · · · · · ·		
4. Impatiens capensis	15	No	FACW	Hydrophytic Vegetati		·
5. <u>Toxicodendron radicans</u>	10	No	FAC		Hydrophytic Vegeta	tion
6 7			—— I	2 - Dominance Te 3 - Prevalence Inc		
0					Adaptations ¹ (Provid	le sunnartina
0					s or on a separate s	
9 10.					ophytic Vegetation ¹ (-
	100 =T	otal Cover		¹ Indicators of hydric so		
Woody Vine Stratum (Plot size: 5 feet)			Ļ	be present, unless dist		
1		<u> </u>		Hydrophytic		
2				Vegetation		
	=T	otal Cover		Present? Yes	<u>No X</u>	
Remarks: (Include photo numbers here or on a separate	ate sheet.)					

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docu	iment tl	ne indica	ator or o	confirm the absenc	e of indicators.)	
Depth	Matrix		Redox	Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remarks	
0-12	10YR 2/2	97	10YR 4/6	3	С	М	Loamy/Clayey			
		<u> </u>								
¹ Type: C=Co	ncentration, D=Dep	letion, RM=R	educed Matrix, N	IS=Masl	ked Sand	d Grains	s. ² Locati	on: PL=Pore Lir	ning, M=Matri	х.
Hydric Soil I	ndicators:						Indicat	ors for Problem	natic Hydric	Soils ³ :
Histosol (A1)		Sandy Gle	yed Mat	rix (S4)		Co	ast Prairie Redo	ox (A16)	
Histic Epi	pedon (A2)		Sandy Red	lox (S5)			Iro	n-Manganese M	asses (F12)	
Black His	tic (A3)		Stripped M	atrix (S6	5)		Re	d Parent Materia	al (F21)	
Hydroger	Sulfide (A4)		Dark Surfa	ce (S7)			Ve	ry Shallow Dark	Surface (F22	2)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Otl	her (Explain in R	emarks)	
2 cm Mud	ck (A10)		Loamy Gle	yed Mat	rix (F2)					
Depleted	Below Dark Surface	e (A11)	Depleted N	latrix (F	3)					
Thick Dar	k Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indica	tors of hydrophy	tic vegetation	and
Sandy M	ucky Mineral (S1)		Depleted D	ark Sur	face (F7)		we	tland hydrology	must be pres	ent,
5 cm Mud	ky Peat or Peat (S3	3)	Redox Dep	ression	s (F8)		un	less disturbed or	problematic.	
Restrictive L	ayer (if observed):									
Type:	Gravel with larg	e stones								
Depth (in	ches):	12	_				Hydric Soil Prese	ent?	Yes	No X
Remarks:										
	12 inches the shove	el probe reac	hed termination d	ue to a	restrictive	e laver o	of stone and gravel, i	indicators of dist	urbed soil. T	he adjacent
							h lawn and agricultur			
drained.										
HYDROLO	GY									
Wetland Hyd	rology Indicators:									
-	ators (minimum of o	ne is require	d; check all that a	apply)			Second	dary Indicators (i	minimum of ty	wo required)
	Vater (A1)		Water-Stai		ves (B9)		Su	rface Soil Crack	s (B6)	
High Wat	er Table (A2)		Aquatic Fa	una (B1	3)		Dra	ainage Patterns	(B10)	
Saturatio	n (A3)		True Aquat				Dr	/-Season Water	Table (C2)	
Water Ma	arks (B1)		Hydrogen	Sulfide (Ddor (C1))	Cra	ayfish Burrows (C8)	
Sediment	: Deposits (B2)		Oxidized R	hizosph	eres on l	_iving R	oots (C3) Sa	turation Visible of	on Aerial Imag	gery (C9)
Drift Depo	osits (B3)		Presence of	of Reduc	ed Iron (C4)	Stu	unted or Stresse	d Plants (D1)	
Algal Mat	or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	ls (C6) Ge	omorphic Positi	on (D2)	
Iron Depo	osits (B5)		Thin Muck	Surface	(C7)		FA	C-Neutral Test (D5)	
	n Visible on Aerial II	magery (B7)	Gauge or V							
Sparsely	Vegetated Concave	Surface (B8) Other (Exp	lain in R	emarks)					
Field Observ	ations:									
Surface Wate		s	No x	Depth (i	nches):					
Water Table				Depth (i	· -					
Saturation Pr				Depth (i			Wetland Hydrol	loav Present?	Yes	No X
(includes cap			- <u> </u>	- F - X			,	3,		
	orded Data (stream	gauge, mon	itoring well. aerial	photos	, previous	s inspec	ctions), if available:			
		J J ., J	J,			1.20	-,,			
Remarks:										

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Des # 1601074 SR 38 HMA Overlay and M	Vinor Structural	City/County: Clinton	County	Sampling Date:	06/18 and 06/20/2019
Applicant/Owner: INDOT Crawfordsville District			State: IN	Sampling Point:	C1
Investigator(s): Shawn Gibbs, Tamra Reece, Ali White	head S	Section, Township, Ra	ange: S24, T22, R2W		
Landform (hillside, terrace, etc.): Terrace		Local relief (concave, convex, none): (Concave	
Slope (%): 0 Lat: 40.344311		Long: -86.580976	l	Datum: NAD83	
Soil Map Unit Name: RuB, Russel silt loam, 2-6 perce	nt slope	• •	NWI classifi	ication: None	
Are climatic / hydrologic conditions on the site typical f	or this time of yea	ar? Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "Normal (
Are Vegetation, Soil, or Hydrology			xplain any answers in Ren		
SUMMARY OF FINDINGS – Attach site m					ures, etc.
Hydrophytic Vegetation Present? Yes X Ne Hydric Soil Present? Yes X Ne Wetland Hydrology Present? Yes X Ne	0	Is the Sampled A within a Wetland		No	
Remarks: The sampling point was located within an area contai presence of standing water was observed where the p	0 0	,		,	
VEGETATION – Use scientific names of pla					
Tree Stratum (Plot size: 20)		minant Indicator ecies? Status	Dominance Test wor	ksheet:	
1	<u> </u>		Number of Dominant S Are OBL, FACW, or F	Species That	1 (A)
3. 4.			Total Number of Domin Across All Strata:	nant Species	1(B)
5		al Cover	Percent of Dominant S Are OBL, FACW, or F	•	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 10)		Prevalence Index wo	-kabaati	
2.	<u> </u>		Total % Cover of:		hv [.]
3.			OBL species 100		00
4.			FACW species 0		0
5			FAC species 0	x 3 =(0
	=Tota	al Cover	FACU species 0		0
Herb Stratum (Plot size: 5) 1. Typha latifolia		Yes OBL	UPL species 0 Column Totals: 100 Prevalence Index =	0 (A) 10	0(B)
3 4.		<u> </u>	Hydrophytic Vegetati	ion Indicators:	
5.				Hydrophytic Vegeta	ition
6.			X 2 - Dominance Te		
7			X 3 - Prevalence Ind		
8				Adaptations ¹ (Provid	
9				s or on a separate s	
10	100 =Tota	al Cover			,
Woody Vine Stratum (Plot size: 5)		¹ Indicators of hydric so be present, unless dist		
2.	<u> </u>		Hydrophytic Vegetation		
	=Tota	al Cover	Present? Yes	X No	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)				

SOIL	
------	--

Profile Desc	cription: (Describe	to the dept	n needed to doc	ument tl	he indica	ator or o	confirm the abser	nce of indicator	s.)	
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12	10YR 2/1	97	10YR 4/6	3	C	Μ	Loamy/Clayey	/		
12-16	10YR 2/1	97	10YR 4/6	3	С	М	Loamy/Clayey	/		
<u> </u>										
¹ Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains	s. ² Loca	ation: PL=Pore L	ining, M=Matrix	κ.
Hydric Soil	Indicators:						Indic	ators for Proble	ematic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gle	-			0	Coast Prairie Red	dox (A16)	
Histic Ep	oipedon (A2)		Sandy Red	dox (S5)			I	ron-Manganese	Masses (F12)	
	stic (A3)		Stripped N	•	6)			Red Parent Mate	, ,	
	n Sulfide (A4)		Dark Surfa					/ery Shallow Dar)
	d Layers (A5)		Loamy Mu				(Other (Explain in	Remarks)	
	ıck (A10)		Loamy Gle	-						
	d Below Dark Surface	e (A11)	Depleted M		,		2			
	ark Surface (A12)		X Redox Dar		. ,			cators of hydroph		
· ·	lucky Mineral (S1)		Depleted [vetland hydrolog		ent,
	icky Peat or Peat (S3	-	Redox Dep	pression	s (⊦8)		L	Inless disturbed	or problematic.	
	Layer (if observed):									
Туре:			_							
Depth (ir	nches):		_				Hydric Soil Pre	sent?	Yes X	No
Remarks:										
HYDROLC	DGY									
Wetland Hy	drology Indicators:									
Primary Indi	cators (minimum of c	ne is require	ed; check all that	apply)			Seco	ndary Indicators	(minimum of ty	vo required)
<u>x</u> Surface	Water (A1)		Water-Sta	ined Lea	ives (B9)		5	Surface Soil Crac	cks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	auna (B1	3)		[Drainage Pattern	s (B10)	
<u>x</u> Saturatio	on (A3)		True Aqua	tic Plant	s (B14)			Dry-Season Wate		
Water M	larks (B1)		Hydrogen	Sulfide (Ddor (C1)		Crayfish Burrows		
Sedimer	nt Deposits (B2)		Oxidized F			-		Saturation Visible	-	jery (C9)
· ·	oosits (B3)		Presence					Stunted or Stress		
	at or Crust (B4)		Recent Iro			lled Soil		Geomorphic Posi		
	oosits (B5)		Thin Muck		` '		<u> </u>	AC-Neutral Tes	t (D5)	
	on Visible on Aerial I									
Sparsely	Vegetated Concave	Surface (B8	3) Other (Exp	plain in R	lemarks)		•			
Field Obser	vations:									
Surface Wat		s <u>x</u>			nches):	2				
Water Table				Depth (i						
Saturation P		s	No	Depth (i	nches):		Wetland Hydr	ology Present?	Yes X	No
	pillary fringe)		the state state of the state of			- 1		_		
Describe Re	corded Data (stream	gauge, mor	ntoring well, aeria	II photos	, previou	s inspec	ctions), if available	:		
Remarks:										
	int was taken adjacer	nt to the drai	nage ditch that co	onvevs w	ater fron	n adricu	Itural fields. mown	lawns and fores	ted areas to the	Kilmore
Creek.			- <u>g</u> - <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u></u>							

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Des # 1601074 SR 38 HMA Overlay and Min	or Structural	City/County: Clinton	County	Sampling Date:	09/01/2019
Applicant/Owner: INDOT Crawfordsville District			State: IN	Sampling Point:	C2
Investigator(s): Preston Marucco	S	ection, Township, Ra	ange: <u>S24, T22, R2W</u>		
Landform (hillside, terrace, etc.): Terrace		Local relief ((concave, convex, none):	Concave	
Slope (%): 2-5 Lat: 40.344273		Long: <u>-86.580932</u>	_	Datum: NAD83	
Soil Map Unit Name: RuB, Russel silt loam, 2-6 percent s	slope		NWI classi	fication: None	
Are climatic / hydrologic conditions on the site typical for	this time of year	r? Yes <u>X</u>	No (If no, exp	plain in Remarks.)	
Are Vegetation, Soil, or Hydrologysig	nificantly disture	oed? Are "Normal	Circumstances" present?	Yes <u>X</u> No)
Are Vegetation, Soil, or Hydrologyna	urally problema	tic? (If needed, e	xplain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site map	showing sa	ampling point lo	ocations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Х	Is the Sampled A within a Wetland		No <u>X</u>	
Remarks: Site consists of a mown lawn adjacent to a forested area	à.				
VEGETATION – Use scientific names of plant	.S.				
	% Cover Spe	ninant Indicator ecies? Status Yes FACU	Dominance Test wo Number of Dominant		
2.			Are OBL, FACW, or F		0 (A)
3. 4.			Total Number of Dom Across All Strata:	inant Species	2 (B)
5	20 =Tota	I Cover	Percent of Dominant Are OBL, FACW, or F	•	. <u>0%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 10)			Duran la na la deu un	• -•	
1			Prevalence Index wo Total % Cover of		, hv.
3.					0
4.					0
5			FAC species	0 x 3 =	0
	=Tota	l Cover		20 x 4 =	80
Herb Stratum (Plot size: 5)				0 x 5 =	0
1. Mown lawn	100 Y	Yes			<u>80</u> (B)
2			Prevalence Index	= B/A =4.00	·
3			Hydrophytic Vegetat	tion Indicators:	
4				r Hydrophytic Vegeta	ation
6			2 - Dominance Te		allon
7.			3 - Prevalence In		
8.				Adaptations ¹ (Provi	ide supporting
9.			data in Remark	ks or on a separate	sheet)
10			Problematic Hydr	rophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size: 5)	100 =Tota	l Cover	¹ Indicators of hydric s be present, unless dis		
1. 2.			Hydrophytic Vegetation		
_	=Tota	l Cover	Present? Yes	No_X	_

Remarks: (Include photo numbers here or on a separate sheet.)

Entire area consists of mown lawn and a single sugar maple (Acer saccharum)

SOIL

Profile Desc	cription: (Describ	e to the dept	h needed to doc	ument t	he indica	tor or o	confirm the absence o	of indicators.)		
Depth	Matrix			x Featu						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 4/3	100					Loamy/Clayey		Loamey clay	
					·					
					·					
					·					
					· <u> </u>					<u> </u>
¹ Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, N	MS=Mas	ked Sand	Grains	s. ² Location:	PL=Pore Lin	ing, M=Matrix	κ.
Hydric Soil	Indicators:						Indicators	s for Problem	natic Hydric S	Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Ma	trix (S4)		Coast	Prairie Redo	x (A16)	
Histic Ep	pipedon (A2)		Sandy Re	dox (S5))			langanese Ma		
Black Hi	stic (A3)		Stripped N	latrix (S	6)		Red F	Parent Materia	l (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very S	Shallow Dark	Surface (F22))
Stratified	d Layers (A5)		Loamy Mu	icky Min	eral (F1)		Other	(Explain in R	emarks)	
2 cm Mu	ıck (A10)		Loamy Gle	eyed Ma	trix (F2)					
Depleted	d Below Dark Surfa	ice (A11)	Depleted I	Matrix (F	3)					
Thick Da	ark Surface (A12)		Redox Da	rk Surfa	ce (F6)		³ Indicators	s of hydrophyt	ic vegetation	and
	lucky Mineral (S1)		Depleted I				wetlar	nd hydrology r	nust be prese	ent,
5 cm Mu	icky Peat or Peat (S3)	Redox De	pressior	ns (F8)		unless	s disturbed or	problematic.	
Restrictive	Layer (if observed	ł):								
Type:	Rock/G	ravel								
Depth (ir	nches):	10					Hydric Soil Present	?	Yes	No <u>X</u>
At a depth o	f 10 inches the sho	ovel probe rea	ched termination of	due to a	restrictive	e layer o	of rock and gravel.			
HYDROLC	OGY									
Wetland Hy	drology Indicator	s:								
Primary Indi	<u>cators (minimum o</u>	f one is requir	ed; check all that	apply)			Secondary	/ Indicators (n	ninimum of tw	vo required)
Surface	Water (A1)		Water-Sta		. ,		Surfac	ce Soil Cracks	s (B6)	
	ater Table (A2)		Aquatic Fa		,			age Patterns (
Saturatio			True Aqua					eason Water		
	larks (B1)		Hydrogen					sh Burrows (C		
	nt Deposits (B2)		Oxidized F			-		ation Visible o	-	gery (C9)
	posits (B3)		Presence		`	,		ed or Stressed	. ,	
	at or Crust (B4)		Recent Irc			lied Sol		orphic Positic		
	oosits (B5)	/D 7	Thin Muck		. ,		FAC-I	Neutral Test (I	D5)	
	on Visible on Aeria									
	Vegetated Conca	ve Sunace (B	8) Other (Exp	Diain in F	(kemarks)		1			
Field Obser										
Surface Wat		Yes	No <u>X</u>	• •	inches):					
Water Table		Yes	No <u>X</u>		inches):			-		•• • • •
Saturation P		Yes	No <u>X</u>	Depth (inches):		Wetland Hydrolog	y Present?	Yes	No <u>X</u>
	pillary fringe)		nitoring well porio	Inhotos		inence	tions) if available:			
Describe Re	Contred Data (Strea	in yauye, mo	moning well, aella		, previous	ыперес	ctions), if available:			
Remarks:										
The area ap	pears to be well dra	ained.								

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: October 21, 2019

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Tamra L. Reece, 7820 Innovation Blvd, Suite 200, Indianapolis, IN 46278

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The proposed project consists of mill and overlay of the roadway and widening of the shoulders from 1.18 miles east of I-65 within the town of Dayton to SR 39/US 421 west junction. Guardrail is anticipated to be installed where necessary. Through the Town of Mulberry, the project involves mill and overlay of the roadway with replacement of curb and gutter and curb ramps. The installation of street parking may be included through the Town of Mulberry. Replacement, extension, grouting, and/or cleaning is recommended for approximately 32 drainage structures.

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

State: IN County/parish/borough: Tippecanoe and Clinton Counties City: Dayton and Mull

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

Lat.: 40.3740 Long.: -86.5671

Universal Transverse Mercator: NAD83

Name of nearest waterbody: South Fork of Wildcat Creek, Hog Run, Middle Fork of Wildcat Creek, and Kilmore Creek

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

Office (Desk) Determination. Date:

Field Determination. Date(s):

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)
See	Attached	Form			

- 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 "preconstruction 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 iurisdiction 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 "may be" waters of the U.S. and/or that there "may be" 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:	

	Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Map:Delineation report dated June 18 and June 20, 2019
	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:
\square	Corps navigable waters' study:
	U.S. Geological Survey Hydrologic Atlas:
	USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name:
	Natural Resources Conservation Service Soil Survey. Citation:
	National wetlands inventory map(s). Cite name: <u>NWI accessed 2019</u>
\square	State/local wetland inventory map(s):
	FEMA/FIRM maps: FEMA accessed 2009 and 2011
	100-year Floodplain Elevation is:(National Geodetic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): ESRI World Imagery, 2017
	or Other (Name & Date): Site photos dated: June 18 and 20, 2019
	Previous determination(s). File no. and date of response letter:
\square	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.

Signature and date of Regulatory staff member completing PJD Tamra L. Reece 05/08/2020

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.

Feature Designation	Latitude	Longitude	Resource Size (acres/linear feet)	Type of Aquatic Resource	Geographic Authority
South Fork of Wildcat Creek	40.375317	-86.752200	111 ft.	Non-Wetland Waters	Section 404
UNT 1	40.368372	-86.733092	108 ft.	Non-Wetland Waters	Section 404
UNT 2	40.363486	-86.721992	795 ft.	Non-Wetland Waters	Section 404
UNT 3	40.350244	-86.682836	118 ft.	Non-Wetland Waters	Section 404
UNT 4	40.344675	-86.642897	111 ft. Non-Wetland Waters		Section 404
UNT 5	40.344519	-86.611375	127 ft.	Non-Wetland Waters	Section 404
UNT 6	40.344414	-86.601578	141 ft.	Non-Wetland Waters	Section 404
UNT 7	40.344386	-86.598983	263 ft.	Non-Wetland Waters	Section 404
UNT 8	40.344364	-86.598478	124 ft.	Non-Wetland Waters	Section 404
UNT 9	40.34445	-86.584281	150 ft.	Non-Wetland Waters	Section 404
UNT 10	40.344389	-86.580906	96 ft.	Non-Wetland Waters	Section 404
UNT 11	40.344244	-86.576983	140 ft.	Non-Wetland Waters	Section 404
UNT 12	40.344233	-86.571997	40 ft.	Non-Wetland Waters	Section 404
Wetland C	40.344311	-86.580975	0.007 ac.	Wetland	Section 404

APPENDIX G

Public Involvement



September 29, 2020

NOTICE OF SURVEY

«OwnerName» «Mailing_Address» «Mailing_CityStateZip»

RE: **DES #1601074**: State Road 38 HMA overlay from County Road 900 near the Town of Dayton, Tippecanoe County, Indiana to U.S. Highway 421/State Road 39 in Clinton County, Indiana

Dear Property Owner:

Our information indicates that you own or occupy property near the subject proposed highway project. Our employees will be performing a survey of the project area in the near future. It may be necessary for them to come onto your property to complete this work. This is permitted by law per Indiana Code IC 8-23-7-26. They will show you their identification if you are available, before coming onto your property. If you have sold this property, or it is occupied by someone else, please let us know the name and address of the new owner or current occupant so we can contact them about the survey.

At this stage, we generally do not know what effect, if any, our project can 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 trees, buildings fences and drives as well as obtaining ground elevations. This survey is needed for the proper planning and design of this highway project. Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If problems do occur, please contact our field crew or contact me at the telephone number or address shown above.

Sincerely,

HANSON PROFESSIONAL SERVICES INC.

ail IC. M. Mail

Richard P. McPhail, PS Senior Surveyor

APPENDIX H

Air Quality

Indiana Department of Transportation (INDOT)

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	МАТСН	2020	2021	2022	2023	2024
Clinton County	1801465	1 14:14		i-			1 47		• •	1		\$706,448.80	\$176,612.20					
ndiana Department of Transportation	180 1405	Init.	US 421	Pavement Replacement, Small Town	From 0.151 mi S of SR 26 to SR 26	Crawfordsville	.17	STPBG		Road Construction	CN	\$706,446.60	\$170,012.20			\$883,061.00		
							1			Road ROW	RW	\$8,000.00	\$2,000.00	\$10,000.00				
ndiana Department	37797 /	Init.	SR 26	Road Rehabilitation (3	From 0.62 mi E of US 421 to 0.3	Crawfordsville	3.426	NHPP		Road	CN	\$21,403,693.60	\$5,350,923.40	\$26,754,617.00				───
of Transportation	1400263			R/4R Standards)	8 mi E of SR 75					Construction				, . ,				
										Safety Construction	CN	\$3,227,010.40	\$806,752.60	\$4,033,763.00				
ndiana Department	38221 /	Init.	SR 28	Pavement	From 1.64 mi W of SR 39 to SR	Crawfordsville	1.632	STPBG		Bridge	CN	\$273,275.20	\$68,318.80	\$341,594.00				+
of Transportation	1005600			Replacement	39 (Jackson St)					Construction								
		-								Road Construction	CN	\$10,864,148.00	\$2,716,037.00	\$13,580,185.00				
Clinton County	38261 / 1500231	Init.	VA VARI	Bridge Inspections	Countywide Bridge Inspection and Inventory Program for Cycle Years 2018-2021	Crawfordsville	0	Multiple		Local Funds	PE	\$0.00	\$21,555.00	\$17,822.20	\$3,732.80			
			•			•		•		Local Bridge Program	PE	\$86,220.00	\$0.00	\$71,288.80	\$14,931.20			
ndiana Department	39763 /	Init.	SR 26	Bridge Deck Overlay	over M Fork Wildcat Creek; 01.	Crawfordsville	0	NHPP		Bridge	CN	\$1,305,957.60	\$326,489.40		\$1,632,447.00			
of Transportation	1800465				29 mi E of SR 29					Construction								
Clinton County	39856 / 1600769	Init.	IR 1026	Bridge Replacement, Other Construction	Bridge # 36 carrying CR 950 W over South Fork Wildcat Creek NON-SELECT	Crawfordsville	.205	STPBG		Local Funds	RW	\$0.00	\$17,000.00	\$17,000.00				
	<u> </u>	1	1	I		1		1		Local Funds	CN	\$0.00	\$327,980.00			\$327,980.00		
										Local Bridge Program	RW	\$68,000.00	\$0.00	\$68,000.00				
										Local Bridge Program	CN	\$1,311,920.00	\$0.00			\$1,311,920.00		
ndiana Department	39956 /	Init.	US 52	Small Structure	1.12 mi E of SR 28 S Jct	Crawfordsville	0	STPBG		Bridge	CN	\$1,971,809.60	\$492,952.40		\$2,464,762.00			+
of Transportation	1600874			Replacement						Construction								
ndiana Department of Transportation	40093 / 1601994	Init.	SR 26	Bridge Thin Deck Overlay	Bridge over Campbells Run, 0.7 2 mi W of US 421	Crawfordsville	0	NHPP		Bridge Construction	CN	\$1,483,688.00	\$370,922.00	\$1,854,610.00				
ndiana Department of Transportation	40106 / 1593047	Init.	SR 28	HMA Overlay, Preventive Maintenance	From US 421 to 8.02 mi E of US 421 (County Line)	Crawfordsville	8.021	STPBG		Road Construction	CN	\$1,901,039.20	\$475,259.80	\$2,376,299.00				
ndiana Department of Transportation	40528 / 1601074	Init.	SR 38	HMA Overlay Minor Structural	from 1.16 mi E of I-65 to US 421	Crawfordsville	10.787	STPBG		Road Construction	CN	\$5,349,035.20	\$1,337,258.80			\$6,686,294.00		
			<u> </u>							Road ROW	RW	\$480,000.00	\$120,000.00	\$600,000.00				
ndiana Department	40536 /	Init.	SR 75	Small Structure	0.80 mi S of SR 26	Crawfordsville	0	STPBG		Bridge	CN	\$650,383.20	\$162,595.80	\$75,000.00		\$737,979.00		
of Transportation	1500107	1	1	Replacement						Construction				φ, 0,000.00		<i><i><i>q</i></i>, <i>o</i>, <i>o</i>, <i>o</i>. <i>o</i></i>		

Table 6: Funded Indiana Department of Transportation Projects, continued

Project Location & Description	Ph	Fund Code	Federal Funds	State Funds	Total Cost	Anticipated Year
26 SR 26, Des # 1800215	PE	STBG	146,260	36,565	182,825	2020
At CR 900E	RW	0100	140,200	00,000	102,020	2020
New Signal Installation	CN	STBG	625,241	156,310	781,551	2023
27 SR 26, Des # 1800569	CN	STBG	1,812,956	453,239	2,266,195	2021
I-65 SB Ramps to 1.49 mi E of I-65, F	atch &	Rehab, PCC	CP Pavements			
28 SR 26, Des # 1802820 At CR 900E, New Signal Installation	CN	STBG	184,000	46,000	230,000	2020
29 SR 26, Des # 1900333	PE	STBG	88,000	22,000	110,000	2020
Bridge over Goose Creek New Bridge Construction	RW CN	STBG	3,617,366	904,342	4,521,708	2024
30 SR 28, Des # 1500155	CN	STBG	3,495,471	873,868	4,369,339	2020
SR 25 to US 231, HMA Functional Ov	verlay					
31 SR 28, Des # 1592968	PE	STBG	554,908	138,727	693,635	2021
US 231 to US 52 W Junction	RW					
Road Rehabilitation	CN	STBG	12,291,053	3,072,763	15,363,816	2022
32 SR 28, Des # 1602094	CN	STBG	41,926	10,482	52,408	2020
0.13 mi W of US 231, Wea Creek, Bri	dge Th	in Deck Ove	rlay			
33 SR 28, Des # 1800670	CN	STBG	127,738	31,935	159,673	2021
Over Little Wea Creek, Bridge Deck C	Overlay					
34 SR 28, Des # 1801298	CN	STBG	310,093	77,523	387,616	2020
Over Haywood Ditch, Bridge Deck Ov	verlay					
35 SR 38, Des # 1601073	ΡE					
Within the Town Limits of Dayton Road Rehabilitation	RW CN	STBG STBG	40,000 1,055,957	10,000 263,989	50,000 1,319,946	2020 2021
36 SR 38, Des # 1601074	CN	STBG	5.341.035	1,335,259	6,676,294	2022
1.07 mi E of I-65 to US 421, HMA Ove		0.20		.,,	0,010,201	
37 SR 38, Des # 1601997	CN	STBG	133,075	33,269	166,344	2020
1.37 mi W of I-65, N&S RR, EB,						
38 SR 38, Des # 1602057	CN	STBG	135,760	33,940	169,700	2020
1.37 mi W of I-65, N&S RR, WB,						
39 SR 38, Des # 1701561	CN	STBG	264,047	66,012	330,059	2020
WB bridge over Elliott Ditch, Bridge D	eck Ov	erlay				

APPENDIX I

Additional Studies

objectid	State	County	Grant ID Element	Туре	Grant Element Title	Grant Sponsor	Fiscal Year	Amount
47457	Indiana	TIPPECANOE	279	С	HANNA PARK	LAFAYETTE PARK BOARD	1977	141500
47690	Indiana	TIPPECANOE	506	С	D/CELERY BOG-PHASE II	WEST LAFAYETTE PARK BOARD	1995	75000
51319	Indiana	TIPPECANOE	121	С	RIVERFRONT PARK - I	WEST LAFAYETTE PARK BOARD	1972	70000
51347	Indiana	TIPPECANOE	256	С	TOMMY JOHNSTON PK	WEST LAFAYETTE PARK BOARD	1976	80625
51354	Indiana	TIPPECANOE	275	С	D/TIPPECANOE BATTLEFIELD ACQ	TIPPECANOE COUNTY PARK BOARD	1977	195382.1
51374	Indiana	TIPPECANOE	345	Α	GLEN ACRES PARK ACQUISITION	LAFAYETTE PARK BOARD	1979	142125.3
60668	Indiana	TIPPECANOE	28	D	TIPPECANOE COUNTY FAIRGROUNDS	TIPPECANOE COUNTY PARK BOARD	1968	3351.28
60695	Indiana	TIPPECANOE	155	Α	HAPPY HOLLOW PARK ACQ.	WEST LAFAYETTE PARK BOARD	1973	23500
60792	Indiana	TIPPECANOE	494	С	CELERY BOG	WEST LAFAYETTE PARK BOARD	1993	75000
60795	Indiana	TIPPECANOE	517	С	D/CELERY BOG-PH IV-LILLY NATURE CENTER	WEST LAFAYETTE PARK BOARD	2000	200000
78887	Indiana	TIPPECANOE	101	А	WABASH RIVER PARK ACQ	LAFAYETTE PARK BOARD	1972	276675
78889	Indiana	TIPPECANOE	115	D	WABASH RIVER GOLF COURSE	LAFAYETTE PARK BOARD	1972	389250
78986	Indiana	TIPPECANOE	515	С	CELERY BOG - PHASE III	WEST LAFAYETTE PARK BOARD	1997	63918.75
78991	Indiana	Tippecanoe	532	А	PROPHETSTOWN STATE PARK ACQUISITION	DEPT. OF NATURAL RESOURCES	2002	2627993

LWCF Project List for Tippecanoe County, Indiana – retrieved from https://www.lwcfcoalition.com/tools on 08/24/20

State LWCF by County list for Clinton County, Indiana - retrieved from https://www.lwcfcoalition.com/tools on 08/24/20

OBJECTID	Name	State	Total LWCF Dollars	Total Projects	per_capita	pop_est	
3024	CLINTON	INDIANA	0	0	0	33086	

Figure 1. Analysis of Affected Community (AC) and Community of Comparison (COC)

	COC 1	COC 2	COC 1&2 (Combined)	AC1	AC2	AC 1&2 (Combined)
	<u>Clinton</u> <u>County,</u> Indiana	<u>Tippecanoe</u> <u>County,</u> <u>Indiana</u>	<u>Clinton and</u> <u>Tippecanoe</u> <u>Counties,</u> <u>Indiana</u>	<u>Census Tract</u> 9503, Clinton <u>County,</u> Indiana	<u>Census Tract</u> <u>109.02,</u> <u>Tippecanoe,</u> <u>Indiana</u>	<u>Census Tracts</u> <u>9503, Clinton</u> <u>County, Indiana</u> <u>Census Tract</u> <u>109.02,</u> <u>Tippecanoe</u> <u>County, Indiana</u>
LOW-INCOME						
Population for whom poverty status is determined: Total Population for whom poverty status is determined:	32,357	153,488	185,845	4,698	3,705	8,403
Income in past 12 months below poverty level	3,797	30,660	34,457	454	256	710
Percent Low-income	11.70%	20%	18.50%	9.66%	6.90%	8.44%
125 Percent of COC			23.17%			AC<125% COC
Potential Low-Income EJ Impact?						Νο
MINORITY						
Total Population:Total	33,270	168,635	201,905	4,929	3,718	8,647
Total Population: Not hispanic or latino	29,181	156,588	185,769	4,849	3,647	8,496
Total Popluation: Not hispanic or latino; White alone	28,679	137,112	165,791	4,726	3,609	8,335
Total Popluation: Not hispanic or latino; Black or African						
American alone	174	6,049	6,223	45	13	58
Total Popluation: Not hispanic or latino; American Indian						
and Alaskan Native alone	80	280	360	21	0	21
Total Popluation: Not hispanic or latino; Asian alone Total Popluation: Not hispanic or latino; Native Hawaiian	15	10,317	10,332	0	0	0
and Other Pacific Islander alone Total Popluation: Not hispanic or latino; Some other race	0	65	65	0	0	0
alone Total Popluation: Not hispanic or latino; Two or more	8	156	164	0	0	0
races	0	28	28	0	0	0
Total Popluation: Hispanic or latino	4,089	12,047	16,136	80	71	151

Total Popluation: Hispanic or latino; White alone Total Popluation: Hispanic or latino; Black or African	2,590	7,908	10,498	6	17	23
American alone Total Popluation: Hispanic or latino; American Indian and	0	352	352	0	0	0
Alaskan Native alone	63	67	197	0	0	0
Total Popluation: Hispanic or latino; Asian alone Total Popluation: Hispanic or latino; Native Hawaiian and	0	1	1	0	0	0
Other Pacific Islander alone Total Popluation: Hispanic or latino; Some other race	0	0	0	0	0	0
alone	1,255	3,014	4,269	35	54	89
Total Popluation: Hispanic or latino; Two or more races	181	705	886	39	0	39
Number Non-white/minority	4,591	31,523	36,114	203	109	312
Percent Non-white/minority	13.70%	18.69%	17.88%	4.11%	2.93%	3.60%
125 Percent of COC			22.35%			AC<125% COC
Potential Minority EJ Impact?						No

U.S. Census Bureau AMERICAN FactFinder B03002 HISPANIC OR LATINO ORIGIN BY RACE Universe: Total population 2006-2010 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and 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.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, for 2010, the 2010 Census provides the official counts of the population and housing units for the nation, states, counties, cities and towns. For 2006 to 2009, the Population Estimates Program provides intercensal estimates of the population for the nation, states, and counties.

	Clinton Cour	ty, Indiana	Tippecanoe Co	unty, Indiana	Census Tract 9503, Clinton County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Total:	33,270	****	168,635	****	4,929	+/-224
Not Hispanic or Latino:	29,181	****	156,588	****	4,849	+/-235
White alone	28,679	+/-12	137,112	+/-62	4,726	+/-266
Black or African American alone	174	+/-73	6,049	+/-282	45	+/-48
American Indian and Alaska Native alone	80	+/-40	280	+/-130	21	+/-20
Asian alone	15	+/-16	10,317	+/-243	0	+/-119
Native Hawaiian and Other Pacific Islander alone	0	+/-119	65	+/-61	0	+/-119
Some other race alone	8	+/-12	156	+/-104	0	+/-119
Two or more races:	225	+/-81	2,609	+/-391	57	+/-43
Two races including Some other race	0	+/-119	28	+/-28	0	+/-119
Two races excluding Some other race, and three or more races	225	+/-81	2,581	+/-389	57	+/-43
Hispanic or Latino:	4,089	****	12,047	****	80	+/-73
White alone	2,590	+/-349	7,908	+/-616	6	+/-7
Black or African American alone	0	+/-119	352	+/-303	0	+/-119
American Indian and Alaska Native alone	63	+/-105	67	+/-69	0	+/-119
Asian alone	0	+/-119	1	+/-119	0	+/-119
Native Hawaiian and Other Pacific Islander alone	0	+/-119	0	+/-119	0	+/-119
Some other race alone	1,255	+/-368	3,014	+/-582	35	+/-58
Two or more races:	181	+/-100	705	+/-195	39	+/-47

	Clinton Coun	ty, Indiana	Tippecanoe Co	unty, Indiana	Census Tract 9503, Clinton County, Indiana		
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	
Two races including Some other race	146	+/-104	455	+/-159	39	+/-47	
Two races excluding Some other race, and three or more races	35	+/-42	250	+/-112	0	+/-119	

	Census Tract 109 County, I	
	Estimate	Margin of Error
Total:	3,718	+/-17
Not Hispanic or Latino:	3,647	+/-89
White alone	3,609	+/-115
Black or African American alone	13	+/-20
American Indian and Alaska Native alone	0	+/-119
Asian alone	0	+/-119
Native Hawaiian and Other Pacific Islander alone	0	+/-119
Some other race alone	0	+/-119
Two or more races:	25	+/-34
Two races including Some other race	0	+/-119
Two races excluding Some other race, and three or more races	25	+/-34
Hispanic or Latino:	71	+/-88
White alone	17	+/-17
Black or African American alone	0	+/-119
American Indian and Alaska Native alone	0	+/-119
Asian alone	0	+/-119
Native Hawaiian and Other Pacific Islander alone	0	+/-119
Some other race alone	54	+/-81
Two or more races:	0	+/-119
Two races including Some other race	0	+/-119
Two races excluding Some other race, and three or more races	0	+/-119

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 Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

While the 2006-2010 American Community Survey (ACS) data generally reflect the December 2009 Office of Management and Budget (OMB) definitions 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 definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2000 data. Boundaries for urban areas have not been updated since Census 2000. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2006-2010 American Community Survey

Explanation of Symbols:

1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.

3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.

4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.

5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

8. An '(X)' means that the estimate is not applicable or not available.

AMERICAN FactFinder

B17001

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE Universe: Population for whom poverty status is determined 2006-2010 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and 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.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, for 2010, the 2010 Census provides the official counts of the population and housing units for the nation, states, counties, cities and towns. For 2006 to 2009, the Population Estimates Program provides intercensal estimates of the population for the nation, states, and counties.

	Clinton Coun	ty, Indiana	Tippecanoe Co	unty, Indiana	Census Tract 9503, Clinton County, Indiana
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Total:	32,357	+/-231	153,488	+/-1,281	4,698
Income in the past 12 months below poverty level:	3,797	+/-592	30,660	+/-1,614	454
Male:	1,662	+/-339	15,319	+/-1,086	208
Under 5 years	284	+/-112	1,367	+/-279	30
5 years	30	+/-27	291	+/-102	10
6 to 11 years	287	+/-101	877	+/-161	0
12 to 14 years	84	+/-43	475	+/-143	13
15 years	29	+/-29	117	+/-102	0
16 and 17 years	55	+/-35	94	+/-64	20
18 to 24 years	205	+/-70	8,870	+/-897	58
25 to 34 years	201	+/-90	1,311	+/-235	21
35 to 44 years	183	+/-81	946	+/-238	22
45 to 54 years	219	+/-121	528	+/-164	8
55 to 64 years	16	+/-16	279	+/-107	8
65 to 74 years	51	+/-36	117	+/-72	0
75 years and over	18	+/-15	47	+/-39	18
Female:	2,135	+/-344	15,341	+/-1,062	246
Under 5 years	229	+/-76	1,019	+/-159	35
5 years	90	+/-69	191	+/-110	15
6 to 11 years	222	+/-98	866	+/-190	21
12 to 14 years	77	+/-51	455	+/-153	10
15 years	19	+/-21	201	+/-92	0
16 and 17 years	83	+/-55	307	+/-121	10
18 to 24 years	215	+/-75	7,169	+/-713	16
25 to 34 years	402	+/-123	2,038	+/-280	47
35 to 44 years	228	+/-90	1,049	+/-202	44
45 to 54 years	174	+/-67	948	+/-253	22
55 to 64 years	188	+/-79	509	+/-140	0
65 to 74 years	75	+/-42	250	+/-92	15
75 years and over	133	+/-59	339	+/-98	11
Income in the past 12 months at or above poverty level:	28,560	+/-597	122,828	+/-1,485	4,244
Male:	14,155	+/-350	62,567	+/-956	2,142

	Clinton Cour	ty, Indiana	Tippecanoe Co	unty, Indiana	Census Tract 9503, Clinton County, Indiana
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Under 5 years	1,010	+/-112	4,007	+/-281	191
5 years	214	+/-100	868	+/-185	2
6 to 11 years	1,201	+/-134	4,608	+/-304	109
12 to 14 years	617	+/-125	2,006	+/-213	86
15 years	166	+/-69	957	+/-166	57
16 and 17 years	468	+/-77	1,783	+/-164	81
18 to 24 years	1,134	+/-100	7,401	+/-773	120
25 to 34 years	1,673	+/-112	10,926	+/-244	269
35 to 44 years	1,969	+/-107	8,473	+/-243	296
45 to 54 years	2,173	+/-112	8,640	+/-217	399
55 to 64 years	1,772	+/-52	6,700	+/-127	217
65 to 74 years	957	+/-45	3,562	+/-105	173
75 years and over	801	+/-33	2,636	+/-67	142
Female:	14,405	+/-340	60,261	+/-1,089	2,102
Under 5 years	917	+/-87	4,138	+/-169	120
5 years	307	+/-115	869	+/-211	48
6 to 11 years	1,113	+/-152	4,168	+/-331	130
12 to 14 years	597	+/-114	2,345	+/-268	95
15 years	225	+/-76	571	+/-144	30
16 and 17 years	460	+/-93	1,816	+/-164	91
18 to 24 years	1,134	+/-84	5,533	+/-642	123
25 to 34 years	1,573	+/-128	9,097	+/-284	197
35 to 44 years	1,899	+/-100	8,096	+/-225	297
45 to 54 years	2,202	+/-83	8,491	+/-291	370
55 to 64 years	1,673	+/-92	7,160	+/-153	225
65 to 74 years	1,142	+/-45	4,108	+/-117	153
75 years and over	1,163	+/-102	3,869	+/-160	223

	Census Tract 9503, Clinton County, Indiana	Census Tract 109.02, Tippecanoe County, Indiana	
	Margin of Error	Estimate	Margin of Error
Fotal:	+/-194	3,705	+/-26
Income in the past 12 months below poverty level:	+/-160	256	+/-158
Male:	+/-83	145	+/-114
Under 5 years	+/-42	42	+/-41
5 years	+/-16	7	+/-12
6 to 11 years	+/-119	57	+/-54
12 to 14 years	+/-20	2	+/-5
15 years	+/-119	0	+/-119
16 and 17 years	+/-22	0	+/-119
18 to 24 years	+/-43	0	+/-119
25 to 34 years	+/-18	16	+/-20
35 to 44 years	+/-29	3	+/-4
45 to 54 years	+/-12	18	+/-17
55 to 64 years	+/-12	0	+/-119
65 to 74 years	+/-13	0	+/-119
75 years and over			
Female:	+/-15	0	+/-119
Under 5 years	+/-95	111	+/-59
5 years	+/-28	10	+/-12
•	+/-18	0	+/-119
6 to 11 years	+/-16	0	+/-119
12 to 14 years	+/-16	3	+/-5
15 years	+/-119	0	+/-119
16 and 17 years	+/-15	0	+/-119
18 to 24 years	+/-14	26	+/-35
25 to 34 years	+/-27	38	+/-31
35 to 44 years	+/-50	20	+/-20
45 to 54 years	+/-17	0	+/-119
55 to 64 years	+/-119	3	+/-7
65 to 74 years	+/-13	2	+/-5
75 years and over	+/-9	9	+/-11
Income in the past 12 months at or above poverty level:	+/-267	3,449	+/-161
Male:		4.070	
	+/-176	1,670	+/-110
Under 5 years	+/-81	87	+/-43
5 years	+/-4	22	+/-21
6 to 11 years	+/-37	156	+/-72
12 to 14 years	+/-44	96	+/-43
15 years	+/-36	56	+/-38
16 and 17 years	+/-36	77	+/-49
18 to 24 years	+/-48	112	+/-63
25 to 34 years	+/-94	184	+/-58
35 to 44 years	+/-64	232	+/-64
45 to 54 years	+/-77	278	+/-52
55 to 64 years	+/-55	196	+/-50
65 to 74 years	+/-45	54	+/-31
75 years and over	+/-42	120	+/-32
Female:	+/-180	1,779	+/-127
Under 5 years	+/-43	78	+/-39
5 years	+/-29	27	+/-25
6 to 11 years	+/-55	188	+/-67
12 to 14 years	+/-38	111	+/-56
15 years	+/-21	29	+/-29
16 and 17 years	+/-42	54	+/-35
18 to 24 years	+/-46	58	+/-33
25 to 34 years	+/-40	282	+/-53
35 to 44 years			
45 to 54 years	+/-62	307	+/-68
45 to 64 years	+/-73	307	+/-61
00 10 04 years	+/-67	162	+/-54 +/-37

	Census Tract 9503, Clinton County, Indiana	Census Tract 109.02, Tippecanoe County, Indiana	
	Margin of Error	Estimate	Margin of Error
75 years and over	+/-58	97	+/-39

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 Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

While the 2006-2010 American Community Survey (ACS) data generally reflect the December 2009 Office of Management and Budget (OMB) definitions 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 definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2000 data. Boundaries for urban areas have not been updated since Census 2000. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2006-2010 American Community Survey

Explanation of Symbols:

1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.

3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.

4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.

5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
 An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

8. An '(X)' means that the estimate is not applicable or not available.







Your Selections

2017 boundaries were used to map 'Your Selections'

Selection Results

No Legend

2017 Boundaries

Census Tract

