APPENDIX H

PRELIMINARY WETLAND AND WATERWAYS REPORT

PRELIMINARY WETLAND & WATERWAY REPORT

I-43: Silver Spring Drive to Arrowhead Road

MILWAUKEE AND OZAUKEE COUNTIES, WISCONSIN

ID 1229-04-00

Stantec Project # 1937-01774

September 2012

REVISED April 2013; REVISED July 1, 2013

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INTRODUCTION

Stantec Consulting Services, Inc. (Stantec) performed preliminary wetland delineations and waterway locations along I-43 for the Wisconsin Department of Transportation Southeast Region (WDOT). The Project is located in Milwaukee and Ozaukee Counties, Wisconsin (Figure 1).

The purpose and objective of the work was to preliminarily identify the extent and spatial arrangement of potentially jurisdictional wetlands and waterways for preliminary design purposes in the area shown on Figure 1 as "IH 43 Study Corridor" (Study Area). The wetland and waterway delineations were led by Eric Parker, P.W.S., of Stantec in May, 2012. One hundred fifty-eight (158) wetland areas and seventy-seven (77) waterways (stream segments or ponds without associated wetlands) were identified and mapped in the Study Area. Some of the wetlands are in primary environmental corridor (PEC), secondary environmental corridor (SEC) or isolated natural resource areas (INRA) as designated by Southeastern Wisconsin Regional Planning Commission (SEWRPC). Finally, some wetlands have been identified as ADID wetlands (Advanced Identification) as designated by the U.S. Environmental Protection Agency (EPA).

Wetlands that are considered waters of the U.S. are subject to regulation under Section 404 of the Clean Water Act (CWA) and the jurisdictional regulatory authority lies with the U.S. Army Corps of Engineers (USACE). These wetlands are referred to as "Federal Wetlands". Additionally, the Wisconsin Department of Natural Resources (WDNR) has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes and Act 6. Stantec recommends that during final design a wetland delineation be completed (with flagging and sample points) and a final report be prepared for submittal to the WDNR and USACE for final jurisdictional review, determinations and concurrence.

METHODS

Although sample points were not part of the scope of this work, wetland determinations were based on criteria outlined in the *United States Army Corps of Engineers Wetlands Delineation Manual,* Technical Report Y-87-1 (1987), subsequent guidance documents (USACE 1991, 1992) and the Northcentral & Northeast Regional Supplement (January 2012).

The wetland determinations involved the use of available resources to assist in the assessment such as USGS topographic maps, Natural Resources Conservation Service (NRCS) Web Soil Survey, Wisconsin Wetland Inventory (WWI) mapping and aerial photography. Designations relating to environmental corridors and ADID statuses were determined by reviewing available mapping on the SEWRPC web site.

On-site wetland determinations were made using a two criteria (vegetation and hydrology) and technical approach defined in the USACE 1987 Manual except that soils were not examined. According to procedures described in the 1987 Manual and the applicable regional supplement, areas under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands. The

uppermost wetland boundary of each wetland was preliminarily identified and surveyed with a Global Positioning System (GPS) capable of sub-meter accuracy and mapped using Geographical Information System (GIS) software. Dominant species were noted in all wetlands, and where diverse plant communities (remnant) was present in the Study Area, observed plant species were recorded and the location noted.

RESULTS

Site Description

The Study Area is a varying width corridor centered along a 34-mile segment of Interstate Highway 43 (I-43) in Milwaukee and Ozaukee Counties, WI (Figure 1). There are portions of the Study Area that branch off the main corridor at major intersections and a railroad.

Soils mapped in the Study Area by the NRCS are shown on Figure 2 (32 sheets), and listed in Table 1. Generally, the locations of mapped hydric soils were found to be consistent with the locations of wetlands identified in this report.

The Wisconsin Wetland Inventory (WWI) map identifies fewer wetlands than those found in this investigation (Figure 3). Wetlands per this investigation are approximately located where wetlands are depicted on the WWI map (Figure 4 - 32 sheets).

One hundred fifty-eight (158) wetlands and seventy-seven (77) waterways were preliminarily identified and delineated by Stantec. These potentially jurisdictional areas are depicted on Figure 4 (32 sheets). The wetlands and significant attributes are summarized in Table 1, while the waterways are similarly listed in Table 2. Twelve (12) wetlands and five (5) waterways are within PEC, six (6) wetlands and ten (10) waterways are within secondary environmental corridor, three (3) wetlands and five (5) waterways are within isolated natural resource areas, and six (6) wetlands and three (3) waterways are designated as ADID by the U.S. EPA.

A total of eighteen (18) remnant areas with diverse native plant species were observed in the Study Area and are listed on Table 3 (included in a separate document outside this report). One state threatened plant species was also observed and listed in Table 3. All locations are depicted on Figure 5, which is also included in a separate document outside this report.

CONCLUSION

Stantec performed preliminary wetland delineations and waterway locations along I-43 for the WDOT. The Project is located in Milwaukee and Ozaukee Counties, Wisconsin (Figure 1).

The purpose and objective of the work was to preliminarily identify the extent and spatial arrangement of potentially jurisdictional wetlands and waterways for preliminary design purposes in the Study Area. The wetland and waterway delineations were led by Eric Parker, P.W.S., of Stantec in May, 2012. 158 wetland areas, 77 waterways (stream segments or ponds without associated wetlands) and 18 remnant areas were identified and mapped in the Study

Area. Some of the wetlands are in PEC, SEC or INRA as designated by SEWRPC.

Wetlands that are considered waters of the U.S. are subject to regulation under Section 404 of the CWA and the jurisdictional regulatory authority lies with the USACE, referred to as “Federal Wetlands”. Additionally, the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes and Act 6. Stantec recommends that during final design a wetland delineation be completed (with flagging and sample points) and a final report be prepared for submittal to the WDNR and USACE for final jurisdictional review, determinations and concurrence.

The information provided by Stantec regarding wetland boundaries is a scientific-based analysis of the waterway, wetland and upland conditions present on the site at the time of the fieldwork. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland and waterway boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site.

TABLES 1 & 2

Table 1 - Summary of Wetlands Identified within the Study Area (see key below)

Wetland	Type and WDOT Mitigation Banking Acronym	Dominant Species	Major Soil Type(s)	Jurisdiction	SEWRPC Corridor	Comments
W-1	Wet Meadow/ Shallow Marsh (M/SM)	Phalaris arundinacea/ Typha spp.	**Manawa Silt Loam (MaA)	Federal		
W-2	Wet Meadow (RPE)	Phalaris arundinacea/ Zea mays	**Manawa Silt Loam (MaA)	Federal		WW-01 flows south within
W-3	Wet Meadow (M/RPE)	Phalaris arundinacea	**Kewaunee Silty Clay Loam (KoB2)	Federal		WW-02 flows east within
W-4	Wet Meadow (RPE)	Phalaris arundinacea/ Poa pratensis	**Fabius Loam (FaA)	Federal	ADID	WW-03 flows south within
W-5	Wet Meadow/ Floodplain Forest (M/RPF)	Phalaris arundinacea/ Fraxinus pennsylvanica	**Fabius Loam (FaA); **Manawa Silt Loam (MaA)	Federal		
W-6	Wet Meadow (M)	Phalaris arundinacea/ Typha angustifolia/ Scirpus atrovirens	**Kewaunee Silty Clay Loam (KoB2/KoC2)	Federal		WW-04 flows east within southern portion
W-7	Scrub-Shrub (SS)	Salix interior/ Phalaris arundinacea	**Kewaunee Silty Loam (KnB)	Federal		WW-08 flows east within
W-8	Wet Meadow (RPE)	Phalaris arundinacea/ Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		WW-10 flows east within
W-9	Shallow Marsh (SM)	Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		Continuation of WW-10 flows east within
W-10	Wet Meadow (M)	Phalaris arundinacea	Fox Loam (Fo)	Non-Federal		Isolated; likely man-made
W-11	Scrub-Shrub (SS)	Salix interior/ Ribes americanum/ Phalaris arundinacea/ Poa pratensis	*Mussey Loam (MzK)	Federal	SEC	WW-12 at south end
W-12	Wet Meadow (M)	Phalaris arundinacea	Lorenzo Loam (LyA)	Non-Federal		Isolated; likely man-made
W-13	Hardwood Swamp (RPF)	Fraxinus pennsylvanica/ Carex grisea	*Mussey Loam (MzK)	Federal	SEC	WW-14 flows south within
W-14	Wet Meadow (M)	Phalaris arundinacea	Lorenzo Loam (LyA)	Non-Federal		Isolated; likely man-made
W-15	Wet Meadow/ Shallow Marsh (M/SM)	Phalaris arundinacea/ Phragmites australis/ Typha angustifolila	**Fabius Loam (FaA)	Federal		
W-16	Shallow Marsh (SM)	Typha x glauca	**Manawa Silt Loam (MaA); **Kewaunee Silty Clay Loam (KoB2)	Federal		WW-15 flows east through south end
W-17	Wet Meadow (M)	Phalaris arundinacea/ Poa pratensis	**Manawa Silt Loam (MaA)	Federal		WW-16 flows east through north end
W-18	Shallow Marsh/ Hardwood Swamp (SM/WS)	Typha x glauca/ Fraxinus pennsylvanica	**Manawa Silt Loam (MaA)	Federal		
W-19	Wet Meadow (M)	Phalaris arundinaca/ Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		
W-20	Shallow Marsh (SM)	Typha angustifolia	**Manawa Silt Loam (MaA)	Federal(?)		Adjacent to WW-17
W-20A	Shallow Marsh (SM)	Typha angustifolia/ Toxicodendron radicans	**Manawa Silt Loam (MaA)	Federal(?)		
W-20B	Shallow Marsh (SM)	Typha angustifolia/ Toxicodendron radicans	**Manawa Silt Loam (MaA)	Federal(?)		
W-21	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silty Clay Loam (KoC2)	Non-Federal		Possible marginal wetland hydrology
W-22	Shallow Marsh (SM)	Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		
W-23	Shallow Marsh (SM)	Typha angustifolia/ Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		
W-24	Shallow Marsh (SM)	Typha angustifolia/ Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		
W-25	Shallow Marsh/ Hardwood Swamp (SM/WS)	Typha x glauca/ Acer saccharinum	**Manawa Silt Loam (MaA)	Federal(?)		
W-26	Wet Meadow (M)	Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal(?)		
W-27	Shallow Marsh (SM)	Typha x glauca/ Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal(?)		
W-28	Wet Meadow/ Hardwood Swamp (M/WS)	Phalaris arundinacea/ Typha x glauca/ Fraxinus pennsylvanica	*Sebewa Silt Loam (Sm)	Federal		
W-29	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silt Loam (KnB)	Non-Federal		Recent disturbance
W-30	Wet Meadow/ Shallow Marsh (M/SM)	Phalaris arundinacea/ Typha x glauca	**Kewaunee Silty Clay Loam (KoB2)	Non-Federal		
W-31	Wet Meadow/ Shallow Marsh (M/SM)	Phalaris arundinacea/ Typha x glauca	**Kewaunee Silty Clay Loam (KoB2)	Non-Federal		
W-32	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silty Clay Loam (KoB2)	Non-Federal		
W-33	Wet Meadow (M)	Phalaris arundinacea	*Sebewa Silt Loam (Sm)	Federal		
W-34	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silty Clay Loam (KoB2)	Federal		Partially farmed
W-35	Shallow Marsh/ Scrub-Shrub (SM/SS)	Typha x glauca/ Salix interior/ Fraxinus pennsylvanica	*Sebewa Silt Loam (Sm)	Federal	SEC	Along WW-22 (Ulao Creek)
W-36	Wet Meadow/ Scrub-Shrub (M/SS)	Phalaris arundinacea/ Salix interior	*Sebewa Silt Loam (Sm)	Federal		
W-37	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Alliaria petiolata	*Sebewa Silt Loam (Sm)	Federal	SEC	
W-38	Hardwood Swamp/ Shallow Marsh (WS/SM)	Fraxinus pennsylvanica	*Sebewa Silt Loam (Sm)	Federal	SEC	High quality & HQ adjacent upland mesic woods
W-39	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Typha x glauca/ Carex stricta	*Sebewa Silt Loam (Sm)	Federal	SEC	North end high quality & HQ adjacent upland mesic woods
W-40	Hardwood Swamp (WS)	Fraxinus pennsylvanica	*Sebewa Silt Loam (Sm)	Federal		WW-25 flows west through north end
W-41	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Phalaris arundinacea	*Sebewa Silt Loam (Sm)	Federal		
W-42	Shallow Marsh/ Hardwood Swamp (SM/WS)	Typha x glauca/ Phalaris arundinacea/ Fraxinus pennsylvanica	**Kewaunee Silt Loam (KnB)	Federal		
W-43	Shallow Marsh/ Scrub-Shrub (RPE/SS)	Phalaris arundinacea/ Salix interior	*Sebewa Silt Loam (Sm)	Federal	PEC	WW-76 (Ulao Creek) flows through eastern side
W-44	Wet Meadow/ Scrub-Shrub (RPE/SS)	Phalaris arundinacea/ Salix interior	*Sebewa Silt Loam; Water (Sm/W)	Federal	PEC	WW-77 (Ulao Creek) flows through central area
W-45	Floodplain Forest/ Wet Meadow (RPF/RPE)	Fraxinus pennsylvanica/ Phalaris arundinacea/ Carex stricta	*Sebewa Silt Loam (Sm)	Federal	PEC	WW-28 (Ulao Creek) flows westerly through it
W-46	Floodplain Forest (RPF)	Fraxinus pennsylvanica/ Phalaris arundinacea	*Sebewa Silt Loam (Sm)	Federal	SEC	WW-27 (Ulao Creek) flows southwesterly through it
W-47	Shallow Marsh (SM)	Typha x glauca	**Kewaunee Silty Loam (KnB)	Non-Federal(?)		Possible man-made from interchange construction
W-48	Sedge Meadow (M)	Carex praegracilis/ Juncus compressus	**Manawa Silt Loam (MaA); **Kewaunee Silty Clay Loam (KoB2)	Non-Federal(?)		Possible man-made from interchange construction
W-49	Sedge Meadow/ Shallow Marsh (M/SM)	Carex praegracilis/ Juncus compressus/ Typha x glauca	**Kewaunee Silt Loam (KnB)	Non-Federal(?)		Possible man-made from interchange construction
W-50	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silt Loam (KnB)	Non-Federal(?)		Possible man-made from historic adjacent fill
W-51	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica/ Solidago gigantea	**Kewaunee Silt Loam (KnB)	Non-Federal(?)		Potentially isolated
W-52	Wet Meadow (M)	Typha angustifolia/ Carex praegracilis/ Phragmites australis	**Kewaunee Silty Clay Loam (KoB2)	Non-Federal(?)		Possible man-made from interchange construction

Table 1 - Summary of Wetlands Identified within the Study Area (see key below)

Wetland	Type and WDOT Mitigation Banking Acronym	Dominant Species	Major Soil Type(s)	Jurisdiction	SEWRPC Corridor	Comments
W-53	Wet Meadow/ Scrub-Shrub (M/SS)	Phalaris arundinacea/ Rhamnus frangula/ Fraxinus pennsylvanica/ Ulmus americana	*Poygan Silty Clay Loam (Py); **Manawa Silt Loam (MaA); **Fabius Loam (FaA)	Federal(?)		Possible man-made from interchange construction
W-54	Wet Meadow/ Scrub-Shrub (M/SS)	Phalaris arundinacea/ Rhamnus frangula/ Fraxinus pennsylvanica/ Cornus stolonifera	*Mussey Loam (MzK); **Manawa Silt Loam (MaA); **Kewaunee Silt Loam (KnB)	Federal(?)		Possible man-made from interchange construction
W-55	Wet Meadow (M)	Phalaris arundinacea/ Agrostis gigantea	**Kewaunee Silt Loam (KnB)	Non-Federal(?)		Possible man-made from historic adjacent fill
W-56	Shallow Marsh/ Scrub-Shrub (SM/SS)	Typha angustifolia/ Phalaris arundinacea/ Fraxinus pennsylvanica	**Kewaunee Silt Loam (KnB)	Federal		Western lobe more degraded
W-57	Wet Meadow/ Hardwood Swamp (M/WS)	Phalaris arundinacea/ Fraxinus pennsylvanica	**Kewaunee Silt Loam (KnB); **Kewaunee Silty Clay Loam (KoB2)	Federal		Berm and other past grading in vicinity
W-58	Wet Meadow/ Shallow Marsh (M/SM)	Aster firmus/ Carex lacustris/ Typha angustifolia	*Mussey Loam (MzK); *Poygan Silty Clay Loam (Py)	Federal		WW-29 flows westerly through south end
W-59	Shallow Marsh (SM)	Typha angustifolia	**Manawa Silt Loam (MaA)	Federal	ADID	Polygonum cuspidatum on disturbed adjacent uplands
W-60	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Carex bromoides/ Caltha palustris	**Kewaunee Silt Loam (KnB)	Federal	PEC	High quality & HQ adjacent upland mesic woods
W-61	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Carex bromoides/ Caltha palustris	**Kewaunee Silt Loam (KnB)	Federal	PEC	High quality & HQ adjacent upland mesic woods
W-62	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Carex bromoides/ Caltha palustris	**Kewaunee Silt Loam (KnB)	Federal	PEC	High quality & HQ adjacent upland mesic woods
W-63	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Carex bromoides/ Caltha palustris	**Kewaunee Silt Loam (KnB)	Federal	PEC	High quality & HQ adjacent upland mesic woods
W-64	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Carex bromoides/ Caltha palustris	**Kewaunee Silt Loam (KnB)	Federal	PEC	High quality & HQ adjacent upland mesic woods
W-65	Wet Meadow/ Shallow Marsh/ Hardwood Swamp (M/SM/WS)	Phalaris arundinacea/ Typha angustifolia/ Fraxinus pennsylvanica/ Solidago gigantea	*Poygan Silty Clay Loam (Py)	Federal	PEC - ADID	Portions High quality & HQ adjacent upland mesic woods
W-66	Shallow Marsh/ Sedge Meadow (SM/M)	Typha angustifolia/ Carex praegracilis/ Juncus compressus	*Poygan Silty Clay Loam (Py); **Manawa Silt Loam (MaA)	Federal	PEC?	In Freeway Median
W-67	Hardwood Swamp/ Shallow Marsh (WS/SM)	Fraxinus pennsylvanica/ Ulmus americana/ Iris virginicus/ Solidago gigantea/ Symlocarpus foetidus/ Caltha palustris/ Typha angustifolia	*Poygan Silty Clay Loam (Py); **Manawa Silt Loam (MaA)	Federal	PEC - ADID	Portions High quality & HQ adjacent upland mesic woods
W-68	Wet Meadow/ Scrub Shrub (M/SS)	Phalaris arundinacea/ Typha angustifolia/ Salix interior	**Manawa Silt Loam (MaA)	Federal	PEC - ADID	WW-30 flows west within
W-69	Wet Meadow (M)	Phalaris arundinacea/ Carex praegracilis/ Equisetum arvense/ Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		In Freeway Median
W-70	Hardwood Swamp/ Wet Meadow (WS/M)	Fraxinus pennsylvanica/ Solidago gigantea/ Hydrophyllum virginianum/ Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		WW-31 flows northwest within
W-71	Wet Meadow (M)	Phalaris arundinacea	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		Has a western isolated segment; WW-32 flows through eastern
W-72	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Acer negundo/ Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		WW-33 flows through it
W-73	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Hydrophyllum virginianum/ Ranunculus hispidus/ Carex spp./ Iris virginica	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		High quality wet-mesic woodland and adj. mesic woodland; W-73 may have been connected to W-74 pre-I-43
W-74	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Ribes americanum/ Phalaris arundinacea/ Viburnum opulus	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		
W-75	Sedge Meadow (M)	Carex lacustris	**Kewaunee Silty Clay Loam (KoB2)	Non-Federal(?)		Partially farmed; unvegetated w/few scattered weeds in farmed portion
W-76	Wet Meadow/ Scrub-Shrub (M/SS)	Phalaris arundinacea/ Poa pratensis/ Cornus stolonifera/ Viburnum lentago	*Poygan Silty Clay Loam (Py)	Federal		WW-37 and WW-38 merge within W-76, flow is southerly
W-77	Wet Meadow/ Shallow Marsh/ Hardwood Swamp (M/SM/WS)	Phalaris arundinacea/ Carex lacustris/ Typha angustifolia/ Populus tremuloides	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		WW-36 flows westerly through north end
W-78	Wet Meadow/ Scrub-Shrub (M/SS)	Phalaris arundinacea/ Poa pratensis/ Carex stipata/ Cornus stolonifera/ Viburnum lentago	*Poygan Silty Clay Loam (Py)/ **Kewaunee Silt Loam (KnA)	Federal		WW-39 flows southeasterly through northeastern corner
W-79	Wet Meadow/ Shallow Marsh (M/SM)	Phalaris arundinacea/ Carex lacustris/ Typha angustifolia	*Poygan Silty Clay Loam (Py)/ **Kewaunee Silt Loam (KnA)	Federal		WW-40 flows southeasterly through it
W-80	Wet Meadow/ Scrub-Shrub (M/SS)	Phalaris arundinacea/ Poa pratensis/ Carex stipata/ Cornus stolonifera/ Viburnum lentago	**Kewaunee Silt Loam (KnA)	Federal		
W-81	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica/ Saxifraga pensylvanica	**Kewaunee Silt Loam (KnA)	Federal		
W-82	Hardwood Swamp/ Sedge Meadow (WS/M)	Fraxinus pennsylvanica/ Carex stricta/ Iris virginica/ Hydrophyllum virginianum	**Manawa Silt Loam (MaA)	Non-Federal(?)		
W-83	Wet Meadow (M)	Phalaris arundinacea/ Typha angustifolia/ Carex lacustris/ Carex stricta	**Manawa Silt Loam (MaA)	Federal		
W-84	Wet Meadow/ Shallow Marsh/ Hardwood Swamp (M/SM/WS)	Phalaris arundinacea/ Typha angustifolia/ Fraxinus pennsylvanica	**Manawa Silt Loam (MaA)	Federal		
W-85	Wet Meadow (M)	Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		
W-86	Wet Meadow (M)	Phalaris arundinacea	*Poygan Silty Clay Loam (Py)	Federal	INRA	WW-41 flows through it
W-87	Wet Meadow (M)	Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal	INRA - ADID	WW-42 flows through it
W-88	Wet Meadow (M)	Typha angustifolia	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		
W-89	Wet Meadow (M)	Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		
W-90	Wet Meadow (M)	Typha angustifolia	**Kewaunee Silty Clay Loam (KoB2)	Federal		Wetland surrounds WW-44
W-91	Hardwood Swamp (WS)	Fraxinus pennsylvanica	**Manawa Silt Loam (MaA)	Non-Federal(?)	INRA	Saturated at surface
W-92	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Ranunculus hispidus/ Pharlaris arundinacea/ Agrostis gigantea	**Manawa Silt Loam (MaA)	Non-Federal(?)		
W-93	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silt Loam (KnB)	Federal		WW-45b, WW-46, and WW-47 flow through it
W-94	Shallow Marsh (SM)	Typha angustifolia	*Poygan Silty Clay Loam (Py)/ **Kewaunee Silt Loam (KnB)	Federal		
W-95	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Alnus glutinosa/ Ribes americanum	*Poygan Silty Clay Loam (Py)	Federal		WW-49 flows through it
W-96	Wet Meadow (M)/ Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Thypha angustifolia	*Poygan Silty Clay Loam (Py)	Federal		WW-48 flows through it
W-97	Wooded Swamp (WS)	Fraxinus pennsylvanica	**Kewaunee Silty Clay (KrC3)	Non-Federal(?)		No bed or bank
W-98	Wet Meadow (M)	Carex sp./ Phalaris arundinacea	**Kewaunee Silty Clay Loam (KoB2)	Federal		Located off ROW
W-99	Wooded Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Kewaunee Silty Clay (KrC3)	Non-Fedral(?)		

Table 1 - Summary of Wetlands Identified within the Study Area (see key below)

Wetland	Type and WDOT Mitigation Banking Acronym	Dominant Species	Major Soil Type(s)	Jurisdiction	SEWRPC Corridor	Comments
W-100	Hardwood Swamp (WS)/ Shallow Marsh (SM)	Phalaris arundinacea	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		
W-101	Hardwood Swamp(WS)/ Shrub Scrub (SS)	Cornus racemosa/ Fraxinus pennsylvanica/ Solidago gigaintea	**Kewaunee Silt Loam (KnB)	Federal		
W-102	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Poa pratensis	**Manawa Silt Loam (MaA)	Non-Federal(?)		Ponded area
W-103	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		WW-51 located at north end
W-104	Wet Meadow (M)	Fraxinus pennsylvanica/ Carex vulpinoidea	**Manawa Silt Loam (MaA)	Federal(?)		Possible man-made from interchange construction
W-105	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Manawa Silt Loam (MaA)/ Loamy Land (Lu)	Federal		
W-106	Wet Meadow (M)	Phalaris arundinacea/ Aster firmus/ Poa pratensis	**Manawa Silt Loam (MaA)	Federal(?)		Possible man-made from interchange construction
W-107	Shrub Scrub (SS)	Agrostis gigantea/ Cornus racemosa/ Rhamnus catharicus/ Poa pratensis	**Manawa Silt Loam (MaA)	Federal		
W-108	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Manawa Silt Loam (MaA)	Federal		WW-53 and WW-54 flow through it
W-109	Hardwood Swamp (WS)/ Shrub Scrub (SS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Manawa Silt Loam (MaA)	Federal?		
W-110	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Carex stipata	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal?		
W-111	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Manawa Silt Loam (MaA)	Federal?		Possible man-made from interchange construction
W-112	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Alliaria petiolata	**Manawa Silt Loam (MaA)	Federal?		
W-113	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Ulmus americanan	**Manawa Silt Loam (MaA)	Federal		Possible man-made from interchange construction
W-114	Hardwood Swamp (WS)	Populus deltoides/ Fraxinus pennsylvanica	**Manawa Silt Loam (MaA)	Federal		WW-57 flows through it
W-115	Wet Meadow (M)	Phalaris arundinacea	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		
W-116	Wet Meadow (M)	Phalaris arundinacea/ Typha angustifolia/ Solidago gigantea	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		
W-117	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Kewaunee Silt Loam (KnB)	Federal?		
W-118	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Kewaunee Silt Loam (KnB)	Federal		
W-119	Wet Meadow (M)	Typha angustifolia	**Loamy Land (Lu)	Federal		
W-120	Shrub Scrub (SS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Loamy Land (Lu)	Federal		
W-121	Wet Meadow (M)	Typha angustifolia	**Loamy Land (Lu)	Federal(?)		Possible man-made from interchange construction
W-122	Shallow Marsh (SM)	Typha angustifolia/ Elymus riparius	**Loamy Land (Lu)	Federal(?)		Possible man-made from interchange construction
W-123	Shallow Marsh (SM)	Typha angustifolia	**Loamy Land (Lu)	Federal		
W-124	Wet Meadow (M)	Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		
W-125	Wet Meadow (M)	Typha angustifolia	**Loamy Land (Lu)	Federal(?)		Possible man-made from interchange construction
W-126	Shallow Marsh (SM)	Typha angustifolia	**Loamy Land (Lu)	Federal		
W-127	Wet Meadow (M)	Phalaris arundinacea/Typha angustifolia	**Manawa Silt Loam (MaA)	Federal		
W-128	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Poa pratensis	**Kewaunee Silt Loam (KnB)	Federal		
W-129	Shrub Scrub (SS)	Cornus racemosa	**Kewaunee Silt Loam (KnB)	Federal		
W-130	Shallow Marsh (SM)	Typha angustifolia	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnC2)	Federal		
W-131	Shrub Scrub (SS)	Fraxinus pennsylvanica/ Cornus racemosa/ Phalaris arundinacea	**Clayey Land (Cv)	Federal		
W-132	Wooded Swamp (WS)	Fraxinus pennsylvanica/ Phalaris arundinacea	**Clayey Land (Cv)	Federal		WW-59/60 flows through south end
W-133	Shallow Marsh (SM)	Typha angustifolia	**Kewaunee Silt Loam (KnB)	Federal		
W-134	Wet Meadow (M)	Phalaris arundinacea	**Kewaunee Silt Loam (KnB)	Federal		
W-135	Wet Meadow (M)/ Riparian Wetland (RPF)	Fraxinus pennsylvanica/ Phalaris arundinacea/ Solidago gigantea	**Manawa Silt Loam (MaA)	Federal		WW-61 flows near the southern boundary
W-136	Wet Meadow (M), Shallow Marsh (SM)	Carex pellita/ Typha angustifolia	**Manawa Silt Loam (MaA)/ **Kewaunee Silt Loam (KnB)	Federal		
W-137	Shrub Scrub (SS)/ Wooded Swamp (WS)	Phalaris arundinacea/ Fraxinus pennsylvanica/ Rhamnus cathartica/ Populus tremuloides	**Kewaunee Silt Loam (KnB)	Federal		
W-138	Wet Meadow (M)/ Shrub Scrub (SS)	Fraxinus pennsylvanica/ Rhamnus cathartica/ Poa pratensis	**Kewaunee Silt Loam (KnB)	Federal		
W-139	Wet Meadow (M)	Typha angustifolia/ Carex pellita	**Kewaunee Silt Loam (KnB)	Federal		
W-140	Shrub Scrub (SS)/ Wooded Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica/ Viburnum trilobum	**Kewaunee Silt Loam (KnB)	Federal		WW-63 and WW-64 flow into the west end
W-141	Shrub Scrub (SS)/ Wooded Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Manawa Silt Loam (MaA)	Federal		
W-142	Hardwood Swamp (WS)	Fraxinus pennsylvanica	**Manawa Silt Loam (MaA)	Federal		
W-143	Shallow Marsh (SM)	Typha angustifolia/ Agrostis gigantea	**Manawa Silt Loam (MaA)	Federal		
W-144	Shrub Scrub (SS)	Fraxinus pennsylvanica/ Phalaris arundinacea	**Manawa Silt Loam (MaA)	Federal		
W-145	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Alliaria petiolata	**Kewaunee Silt Loam (KnB)	Federal		Marginal wetland
W-146	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Acer negundo/ Rhamnus cathartica/ Alliaria petiolata	**Kewaunee Silt Loam (KnC2)	Federal		WW-66 flows through it
W-147	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	**Kewaunee Silt Loam (KnB)	Federal?		
W-148	Hardwood Swamp (WS)/ Shrub Scrub (SS)	Fraxinus pennsylvanica/ Rhamnus cathartica/ Typha angustifolia/ Solidago riddellii/ Poa pratensis	**Loamy Land (Lu)	Federal?		
W-149	Shrub Scrub (SS)	Cornus stolonifera/ Carex pellita	**Loamy Land (Lu)	Federal?		
W-150	Hardwood Swamp (WS)	Populus deltoides/ Fraxinus pennsylvanica/ Rhamnus cathartica	**Loamy Land (Lu)	Federal?		
W-151	Shrub Scrub (SS)	Fraxinus pennsylvanica/ Agrostis gigantea	**Loamy Land (Lu)	Federal?		
W-152	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Acer negundo/ Alliaria petiolata	**Loamy Land (Lu)	Federal?		
W-153	Hardwood Swamp (WS)	Ulmus americana/ Acer negundo	Unmapped area	Federal?		
W-154	Wet Meadow (M)/ Shrub Scrub (SS)	Agrostis alba/ Poa pratensis/ Fraxinus pennsylvanica/ Populus deltoides	Unmapped area	Federal?		

Table 1 - Summary of Wetlands Identified within the Study Area (see key below)

Wetland	Type and WDOT Mitigation Banking Acronym	Dominant Species	Major Soil Type(s)	Jurisdiction	SEWRPC Corridor	Comments
W-155	Shrub Scrub (SS)	Alliaria petiolata/ Fraxinus pennsylvanica	Unmapped area	Federal?		
W-156	Hardwood Swamp (WS)	Fraxinus pennsylvanica/ Rhamnus cathartica	Unmapped area	Federal?		WW-73 located at west end
W-157	Shrub Scrub (SS)	Alliaria petiolata/ Ribes americanum	Unmapped area	Federal?		WW-73 located at east end
W-158	Shrub Scrub (SS)	Caltha palustris/ Rhamnus frangula	Unmapped area	Federal?		WW-74 flows through it

KEY

Wetland = Corresponds with wetland number shown on the maps in this report
Type = Type of wetland plant community
WDOT Mitigation Banking Acronym = Type-acronym using WDOT Mitigation Banking criteria
Dominant Species = Species generally dominating the wetland
Major Soil Type = The one or two predominant soil types mapped in the wetland
*= Hydric soil **=Hydric soils included in mapping unit
Jurisdiction = Professional opinion of USACE jurisdiction (JD) based on federal criteria
SEWRPC Corridor = based on SEWRPC mapping / criteria: PEC is Primary Environmental Corridor;
SEC is Secondary Environmental Corridor; INRA is Isolated Natural Resource Area
ADID Wetland that is designated as an ADID (Advanced Identification) Wetland by the U.S. Environmental Protection Agency

Table 2 - Summary of Waterways Identified within the Study Area (see key below)

Water-way #	Waterway Name/Description	State Navigable	Jurisdiction	SEWRPC Corridor	Comments
WW-1	Tributary to Ulao Creek	Yes	Federal		Ditch-channel in mapped somewhat poorly drained soils
WW-2	Tributary to Ulao Creek	No	Federal		Ditch-channel in mapped somewhat poorly drained soils within W-3
WW-3	Tributary to Ulao Creek	Yes	Federal	ADID	Ditch-channel in mapped somewhat poorly drained soils within W-4
WW-4	Tributary to Ulao Creek	Yes	Federal		Channel in mapped somewhat poorly drained soils within W-5
WW-5	Stormwater Pond - Trib to Ulao Creek	Yes	Federal		Created for adjacent development
WW-6	Stormwater Pond - Trib to Ulao Creek	Yes	Federal		Created for adjacent development
WW-7	Outlet for WW-6 - Trib to Ulao Creek	Yes	Federal		Short stream segment - provides outlet for WW-6
WW-8	Outlet for WW-6 - Trib to Ulao Creek	Yes	Federal		Continuation of WW-7; flows through W-7
WW-9	Stormwater Pond - Trib to Ulao Creek	Yes	Federal		Created for adjacent development
WW-10	Outlet for WW-6 - Trib to Ulao Creek	Yes	Federal		Continuation of WW-7 and WW-8; flows through W-8
WW-11	Stormwater Pond - Trib to Ulao Creek	Yes	Federal		Created for adjacent development
WW-12	Tributary to Ulao Creek	Yes	Federal	SEC	Provides outlet for W-11
WW-13	Tributary to Ulao Creek	Yes	Federal	SEC	Part of navigable ditch along railroad
WW-14	Tributary to Ulao Creek	Yes	Federal	SEC	Associated with W-13
WW-15	Tributary to Ulao Creek	Yes	Federal		Associated with W-16
WW-16	Tributary to Ulao Creek	Yes	Federal		Associated with W-17
WW-17	Stormwater Pond	Yes	Federal (?)		Excavated in mapped somewhat poorly drained soils; divided from W-20 via fill for a walkway
WW-18	Tributary to Ulao Creek	Yes	Federal (?)		Ditch waterway cut into mapped non-hydric soil and connected to WW-19 and WW-20 via culvert
WW-19	Ulao Creek	Yes	Federal	SEC	Channel w/excavation history
WW-20	Ulao Creek	Yes	Federal	SEC	Channel w/excavation history connected to WW-19 via box culvert
WW-21	Tributary to Ulao Creek	No	Federal	SEC	Road ditch cut into hydric soils - feeds into WW-20
WW-22	Ulao Creek / Tributary to Ulao Creek	Yes	Federal	SEC	North segment is tributary and in non-SEC
WW-23	Tributary to Ulao Creek	Yes	Federal		Cut into mapped hydric soils and feeds into Ulao Creek; WW-23 provides outlet for W-36
WW-24	Ulao Creek	Yes	Federal	SEC	Flows into box culvert under I-43
WW-25	Tributary to Ulao Creek	Yes	Federal	SEC?	Within W-40 and mapped hydric soils
WW-26	Tributary to Ulao Creek	Yes	Federal		Within mapped hydric soils
WW-27	Ulao Creek	Yes	Federal	SEC	Within W-46
WW-28	Ulao Creek	Yes	Federal	PEC	Within W-45
WW-29	Tributary to Ulao Creek	No	Federal	INRA	Within W-58
WW-30	Tributary to Ulao Creek	Yes	Federal	PEC	Within W-68
WW-31	Tributary to Ulao Creek	Yes	Federal		Flows into box culvert under I-43 to WW-30
WW-32	Tributary to Ulao Creek	No	Federal		Within W-71
WW-33	Tributary to Ulao Creek	Yes	Federal		Within W-72
WW-34	Tributary to Ulao Creek	Yes	Federal		In mapped somewhat poorly drained soils; flows into WW-35 pond system
WW-35	Ponds tributary to Ulao Creek	Yes	Federal		Excavated pond system in golf course
WW-36	Tributary to Ulao Creek	Yes	Federal		Within W-77
WW-37	Tributary to Ulao Creek	Yes	Federal		Merges w/WW-38 within W-76
WW-38	Tributary to Ulao Creek	Yes	Federal		Merges w/WW-37 within W-76
WW-39	Tributary to Ulao Creek	Yes	Federal		Within W-78
WW-40	Tributary to Ulao Creek	Yes	Federal		Within W-79
WW-41	Tributary to Milwaukee River	Yes	Federal	INRA	Within W-86
WW-42	Tributary to Milwaukee River	Yes	Federal	INRA-ADID	Within W-87
WW-43	Tributary to Milwaukee River	Yes	Federal		
WW-44	Stormwater Pond	No	Federal (?)		Excavated in mapped poorly drained soils; adjacent to W-90

Table 2 - Summary of Waterways Identified within the Study Area (see key below)

Water-way #	Waterway Name/Description	State Navigable	Jurisdiction	SEWRPC Corridor	Comments
WW-45A	Tributary to Milwaukee River	Yes	Federal	INRA	Surrounded by non-wetlands in Study Corridor
WW-45B	Tributary to Milwaukee River	Yes	Federal		Within, and outlet for, W-93. Flows through culvert to WW-45A
WW-46	Tributary to Milwaukee River	Yes	Federal		Within W-93
WW-47	Tributary to Milwaukee River	Yes	Federal		Within W-93
WW-48	Tributary to Milwaukee River	Yes	Federal		Within W-96
WW-49	Tributary to Milwaukee River	Yes	Federal		Within W-95
WW-50	Unknown	No	Federal (?)		Within mapped somewhat poorly drained soils
WW-51	Tributary to Fairy Chasm Creek	Yes	Federal		Adjacent to and outlet for W-103
WW-52	Tributary to Fairy Chasm Creek	Yes	Federal		Potentially flows into WW-51 through long culvert under freeway system
WW-53	Tributary to Fairy Chasm Creek	Yes	Federal		Connected to WW-54
WW-54	Tributary to Fairy Chasm Creek	Yes	Federal		Connected to WW-53
WW-55	Tributary to Fairy Chasm Creek	Yes	Federal		Connected to WW-54 via culvert
WW-56	Tributary to Fairy Chasm Creek	Yes	Federal		Connected to WW-57 via culvert
WW-57	Tributary to Fairy Chasm Creek	Yes	Federal		Associated w/W-114; connected to WW-56 via culvert
WW-58	Tributary to Indian Creek	Yes	Federal		Flows parallel to I-43
WW-59	Indian Creek	Yes	Federal	INRA	Connected to WW-60 via box culvert
WW-60	Indian Creek	Yes	Federal		Connected to WW-59 via box culvert
WW-61	Tributary to Indian Creek	Yes	Federal		Associated with W-135
WW-62	Tributary to Indian Creek	Yes	Federal		Flows into WW-61
WW-63	Tributary to Milwaukee River	No	Federal		Flows into WW-64
WW-64	Tributary to Milwaukee River	Yes	Federal		Provides outlet for W-140
WW-65	Tributary to Milwaukee River	Yes	Federal		
WW-66	Tributary to Milwaukee River	Yes	Federal		Associated with W-146
WW-67	Tributary to Milwaukee River	Yes	Federal		Provides outlet for W-148
WW-68	Tributary to Milwaukee River	Yes	Federal		Provides outlet for W-149
WW-69	Tributary to Milwaukee River	Yes	Federal		Provides outlet for W-152
WW-70	Tributary to Milwaukee River	Yes	Federal		Connected to WW-68 and WW-69
WW-71	Tributary to Milwaukee River	No	Federal		Connected to WW-72 via culvet
WW-72	Tributary to Milwaukee River	No	Federal		Connected to WW-71 via culvet
WW-73	Tributary to Milwaukee River	Yes	Federal		Associated with W-157; connected to WW-74
WW-74	Tributary to Milwaukee River	Yes	Federal		Associated with W-158; connected to WW-73
WW-75	Milwaukee River	Yes	Federal	PEC - ADID	OHWM along east bank mapped; noise reduction wall divides freeway and river
WW-76	Ulao Creek	Yes	Federal	PEC	Associated with W-43
WW-77	Ulao Creek	Yes	Federal	PEC	Associated with W-44

KEY

State Navigable = Appears to be navigable based on the standards of the State of Wisconsin

Jurisdiction = Professional opinion of USACE jurisdiction (JD) based on federal criteria

SEWRPC Corridor = based on SEWRPC mapping / criteria: PEC is Primary Environmental Corridor; SEC is Secondary Environmental Corridor; INRA is Isolated Natural Resource Area

ADID Wetland that is designated as an ADID (Advanced Identification) Wetland by the U.S. Environmental Protection Agency

FIGURES

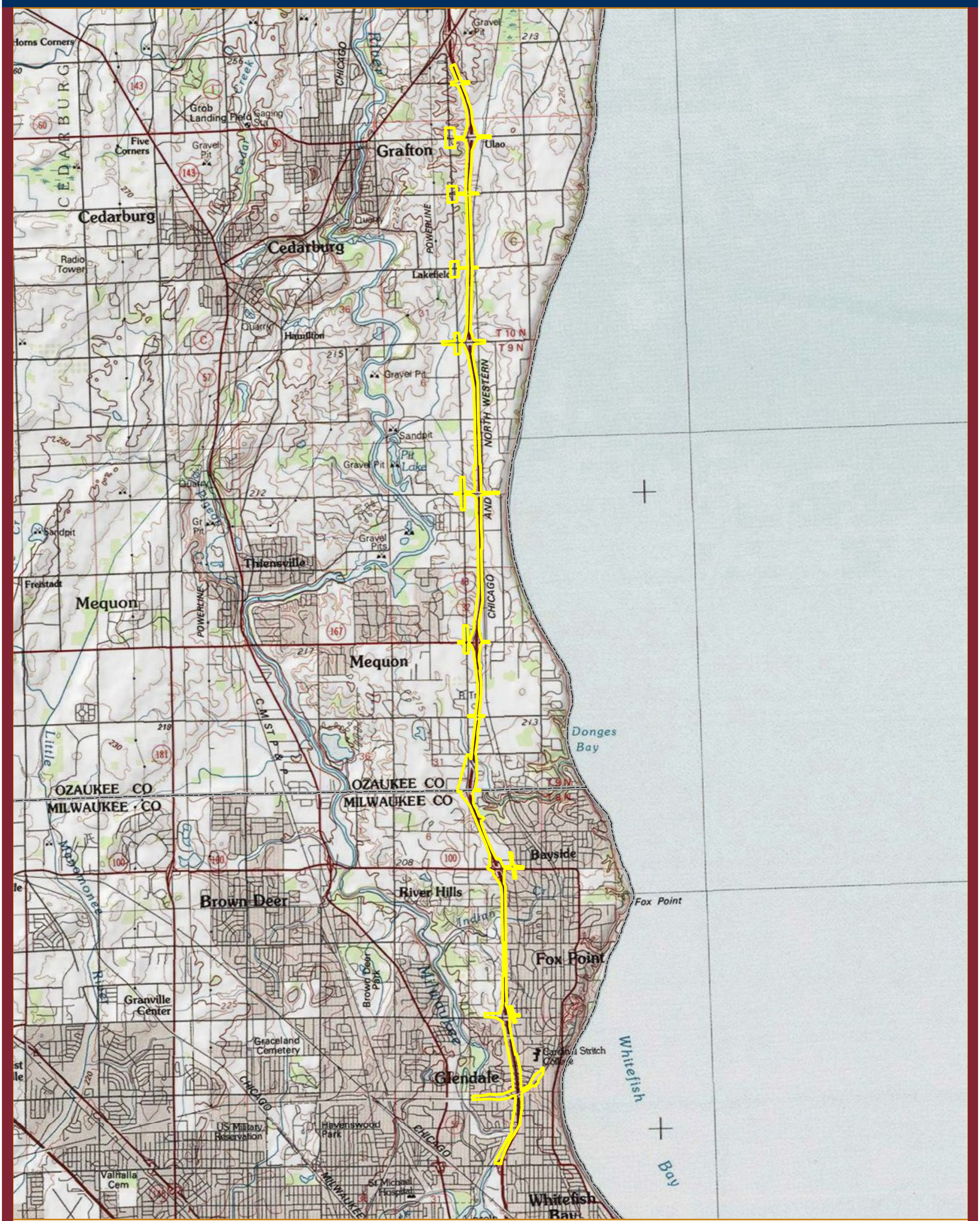
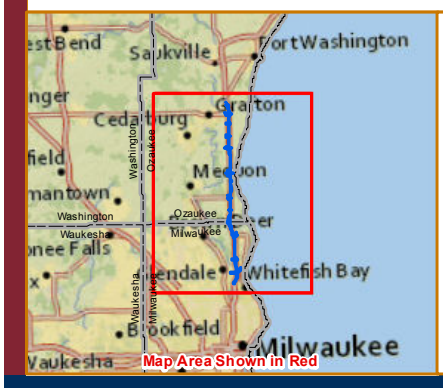


Figure 1. Project Location and Topography
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



Location

Ozaukee and
Milwaukee Counties

Project Information

Project Number: 193701774

Last Modified: September 23, 2012

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Miles

Legend

IH43 Study Corridor

Data Sources include: USGS, ESRI

Stantec

	Initials	Date
Prepared by	ACS	20120923
Peer Review by	CP	20120923
Final Review by	EP	20120923

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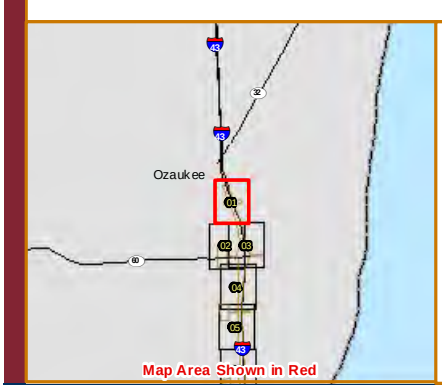
Figure 2. NRCS Soil Survey Data
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



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Feet

Legend

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- NRCS Soil Survey Data
- Hydric Soils
- Possible Hydric Inclusions
- Non-Hydric Soils
- DNR 24k Hydrography
- Perennial Stream
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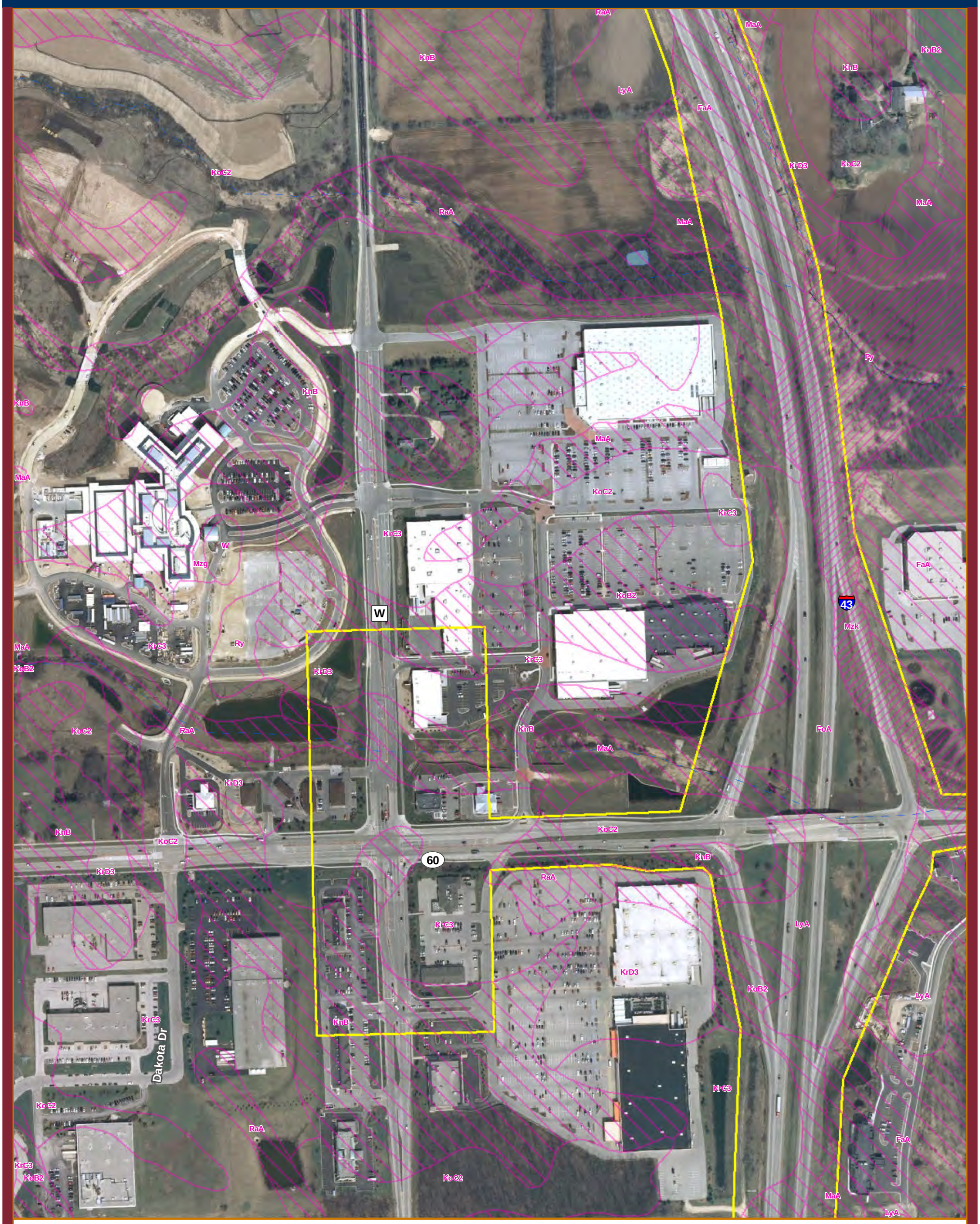
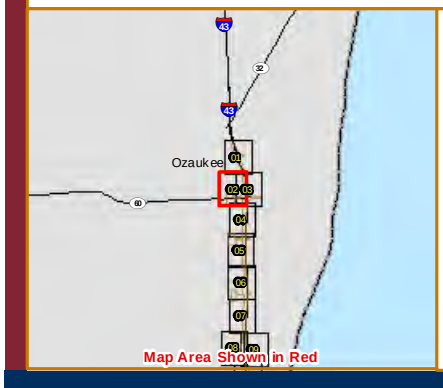


Figure 2. NRCS Soil Survey Data
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



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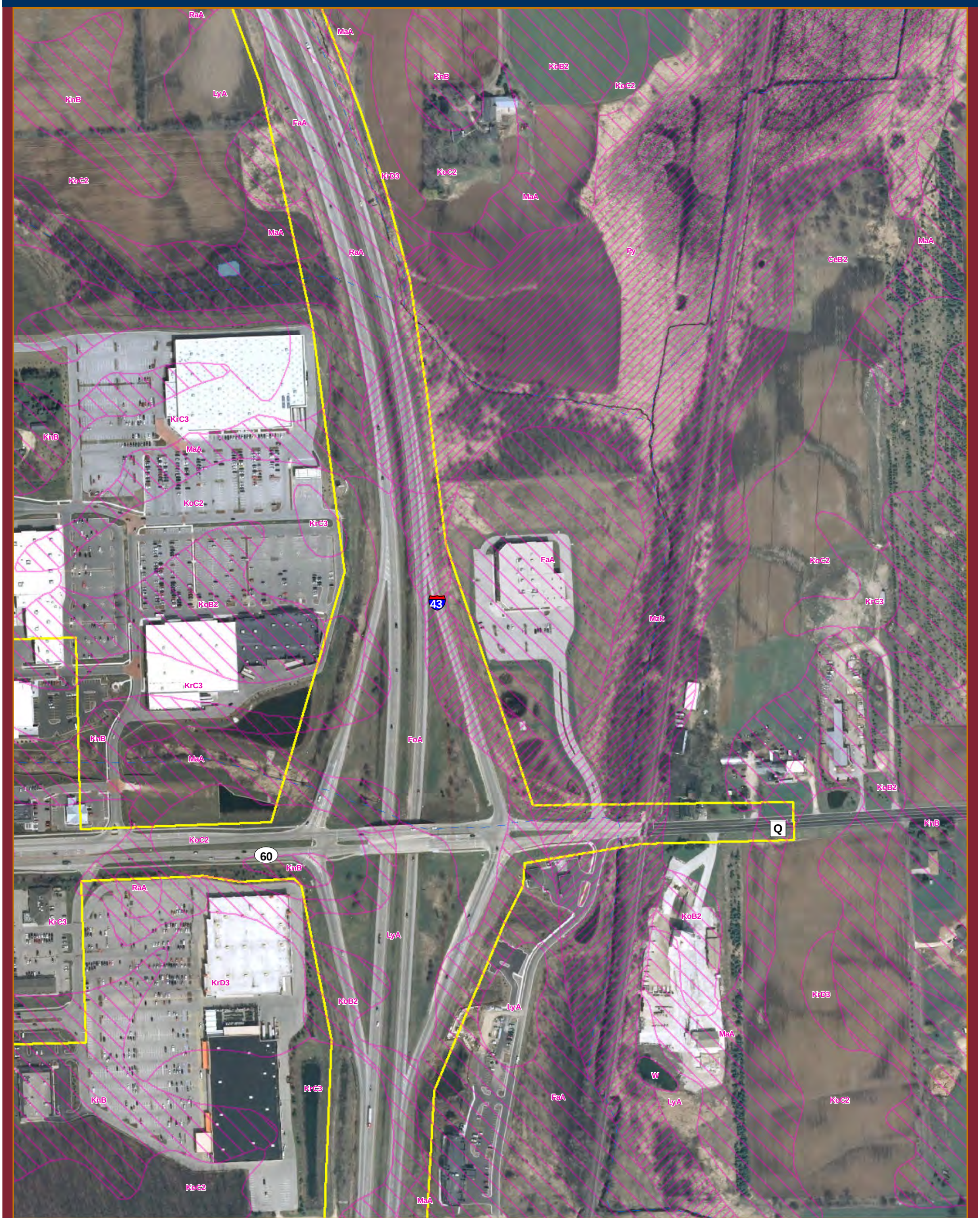

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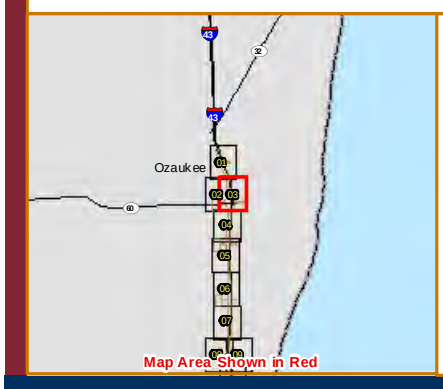

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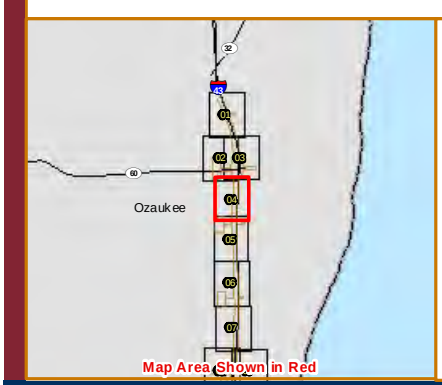

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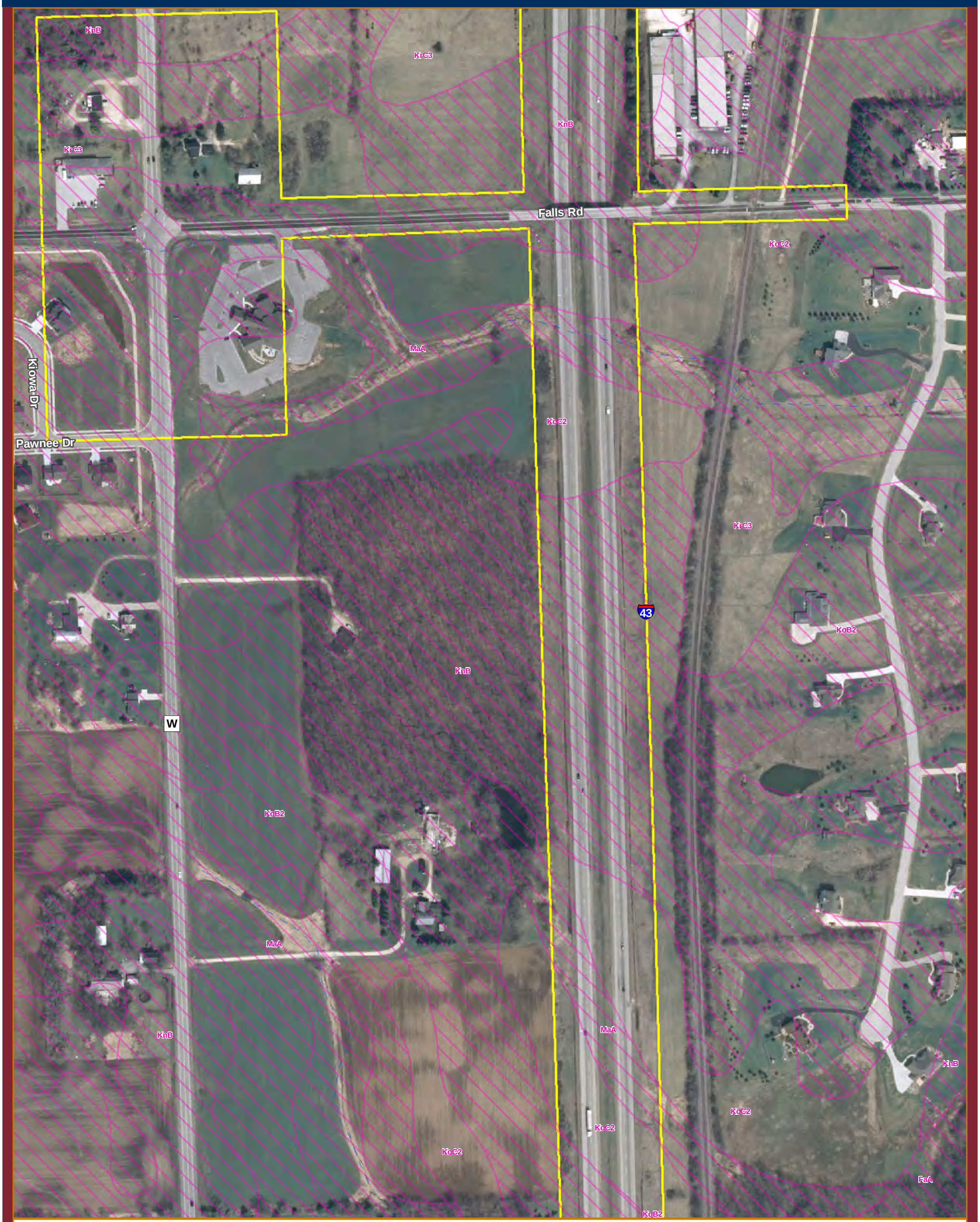

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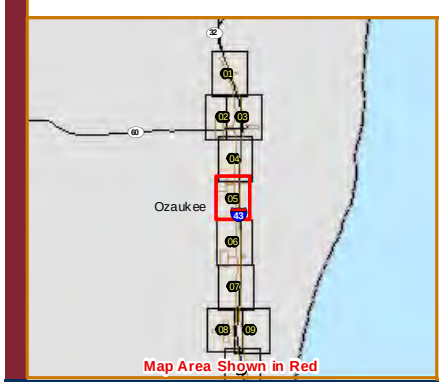

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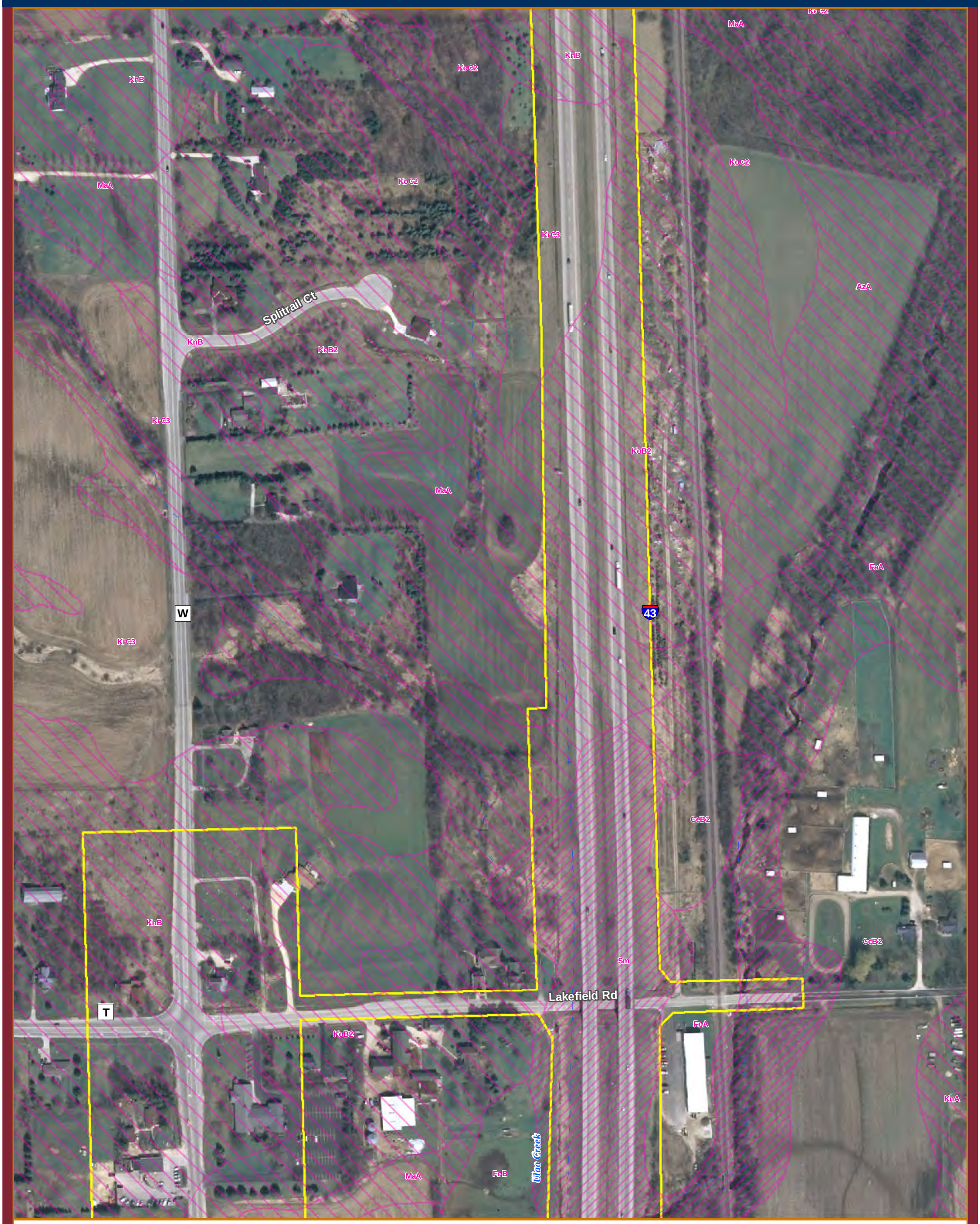

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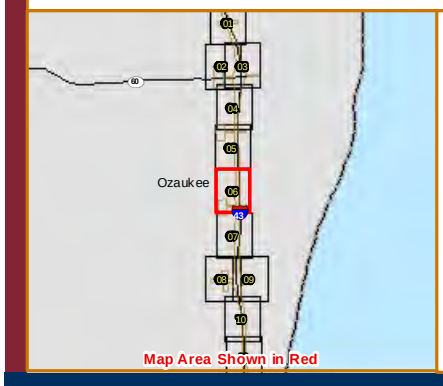

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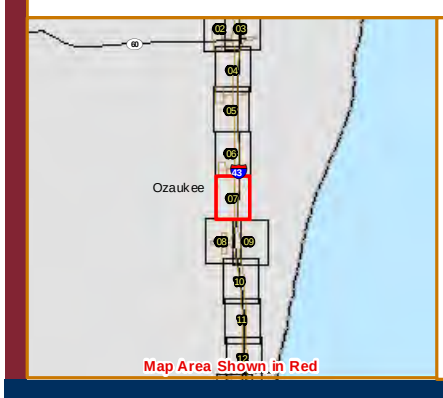

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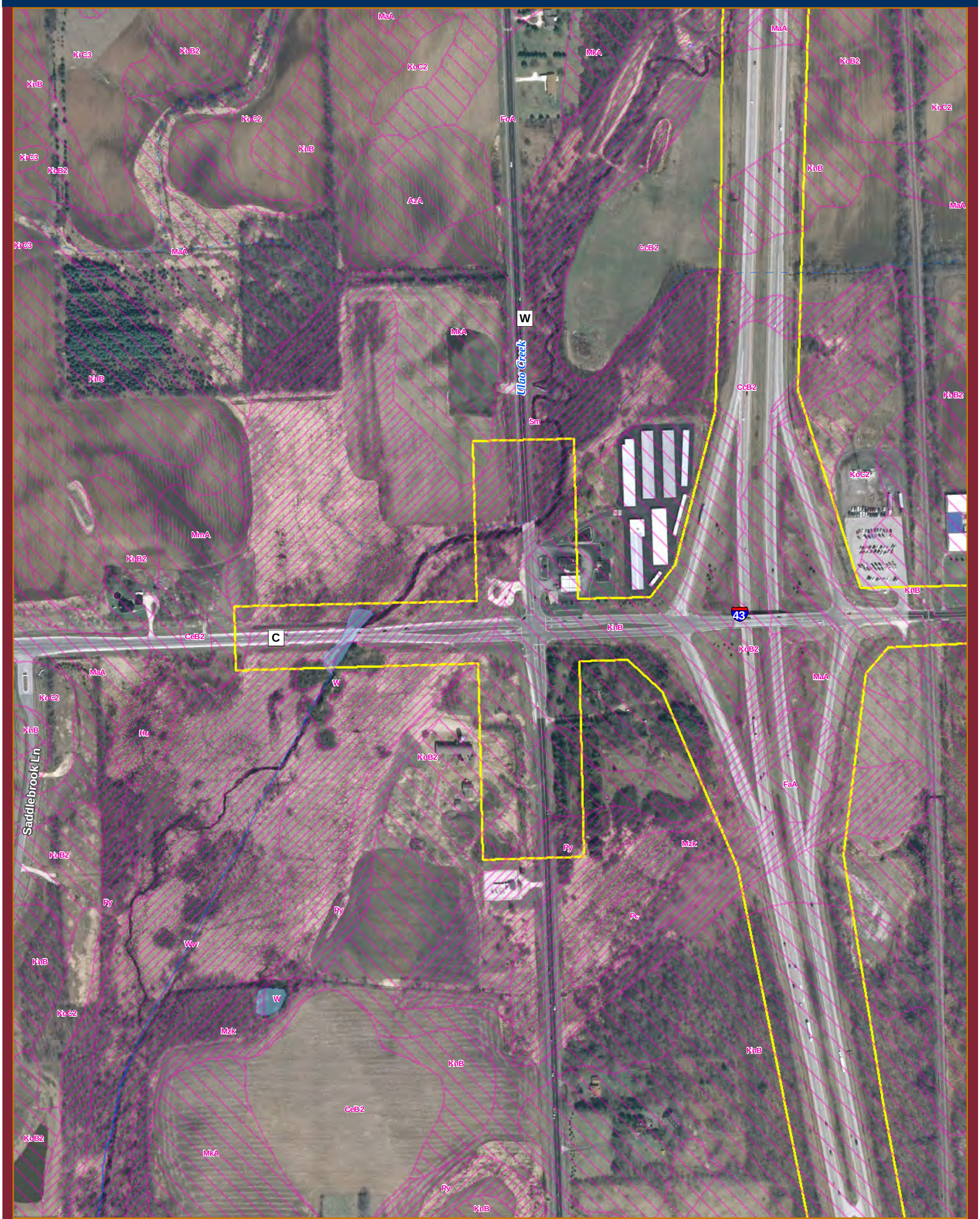

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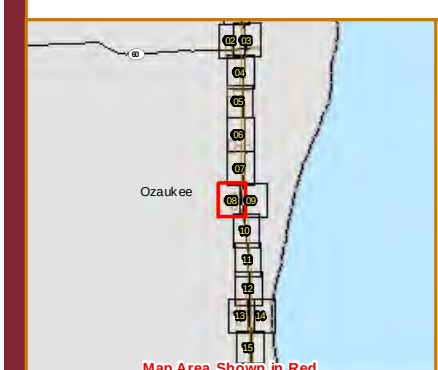

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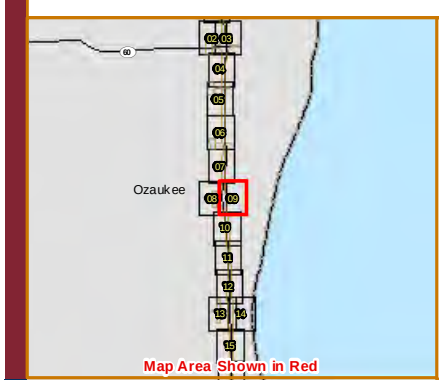

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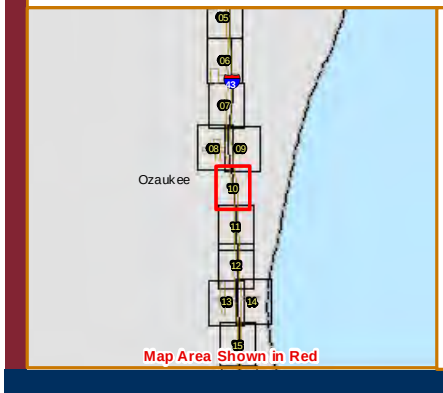

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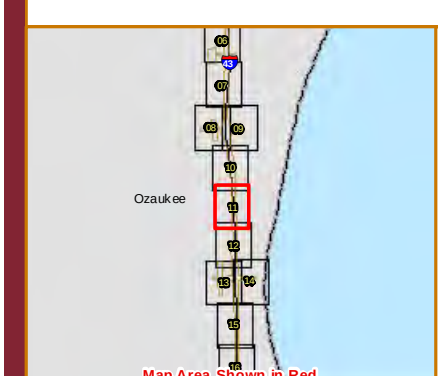

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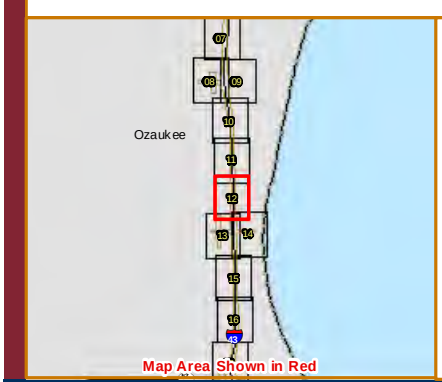

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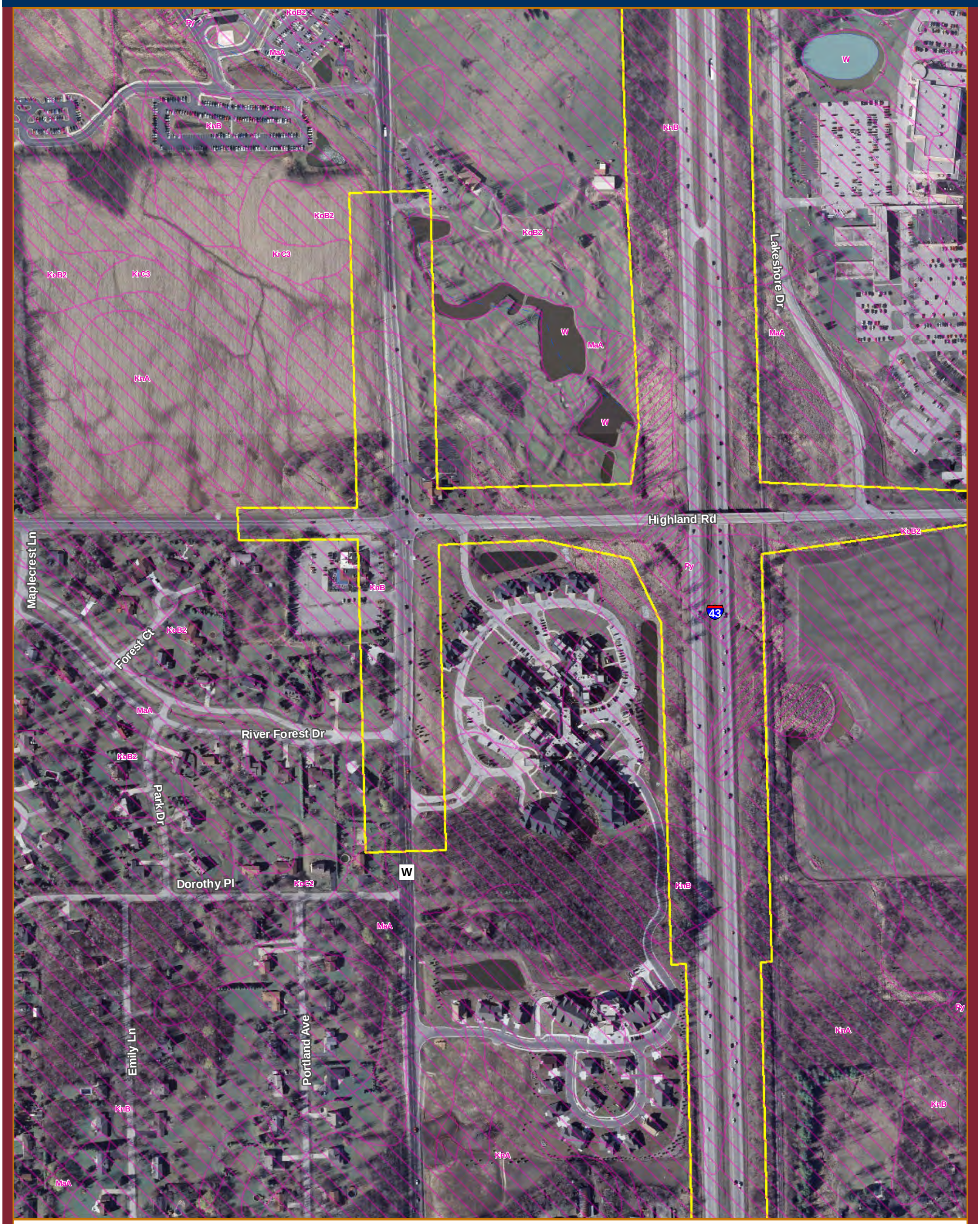

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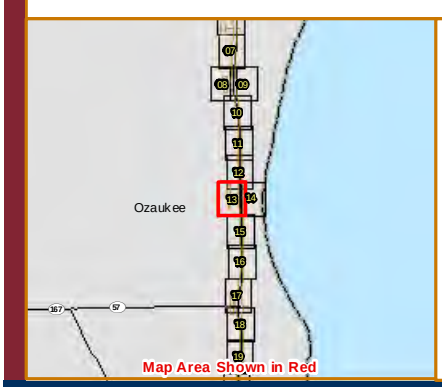

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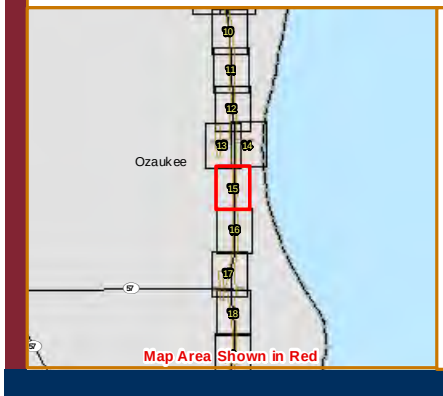

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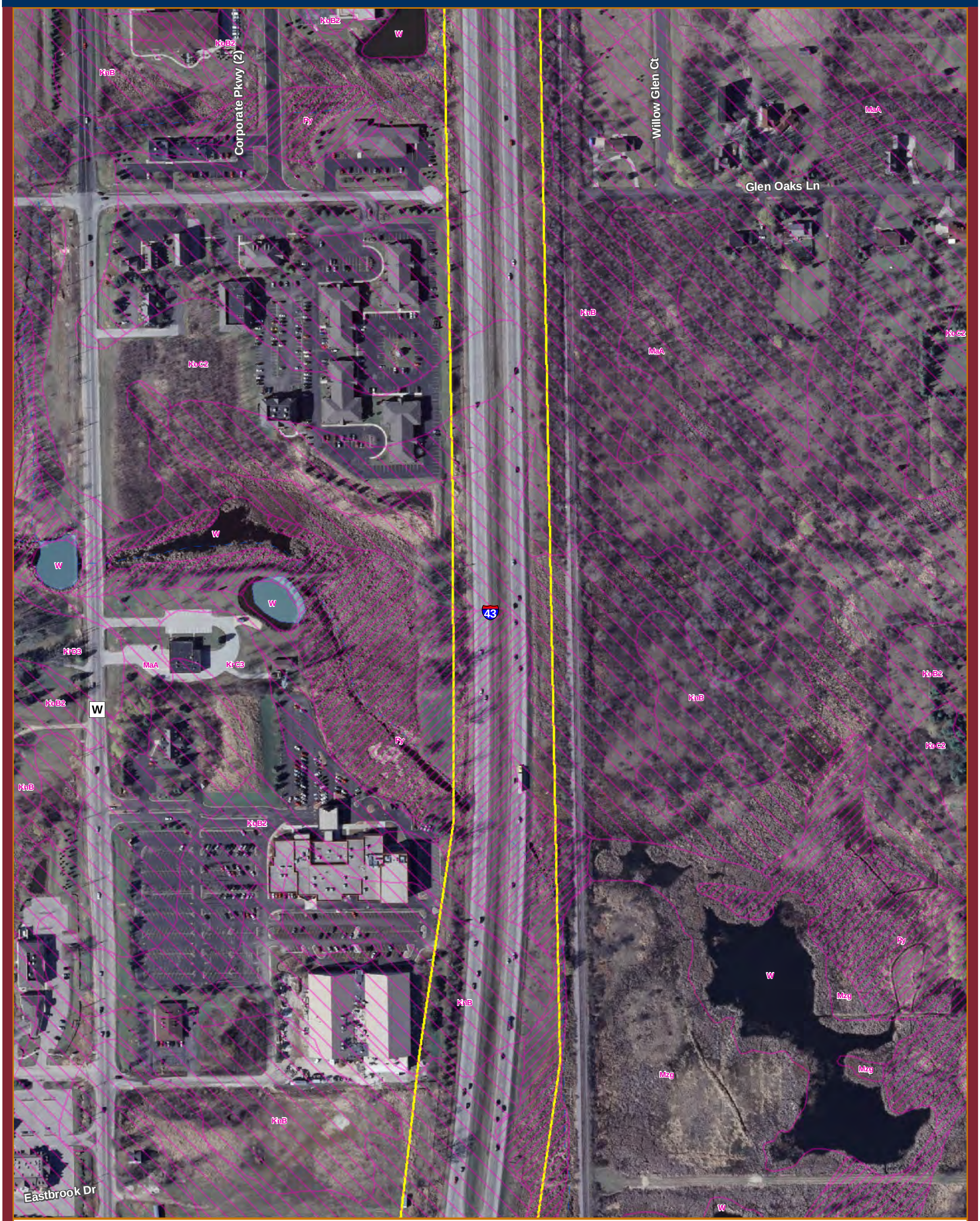

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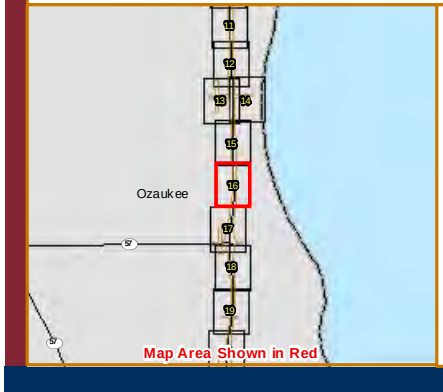

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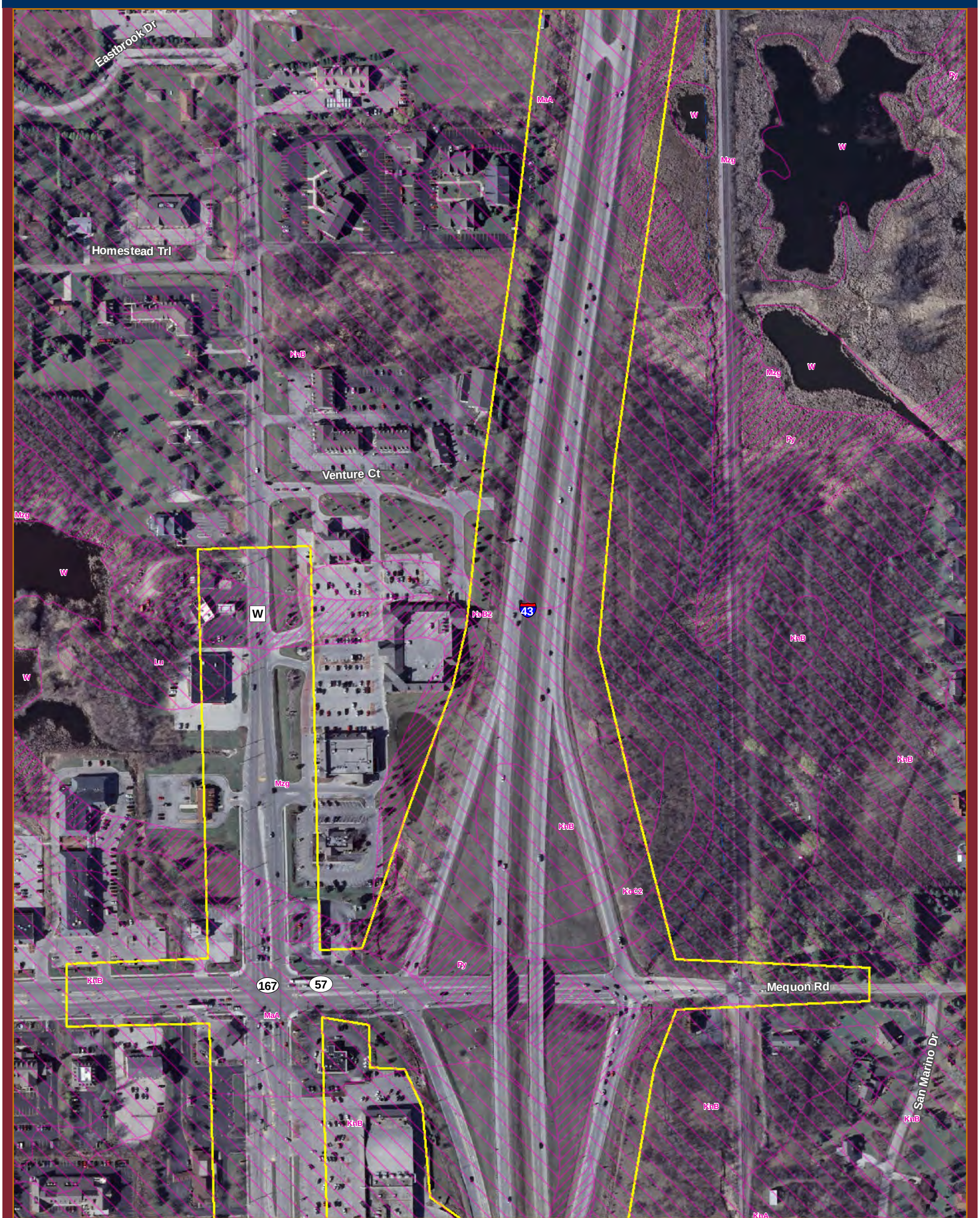

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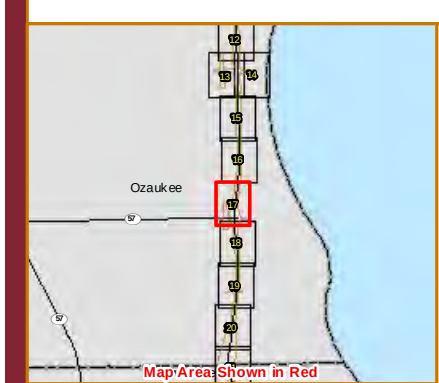

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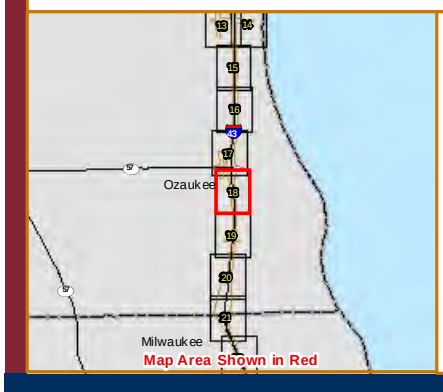

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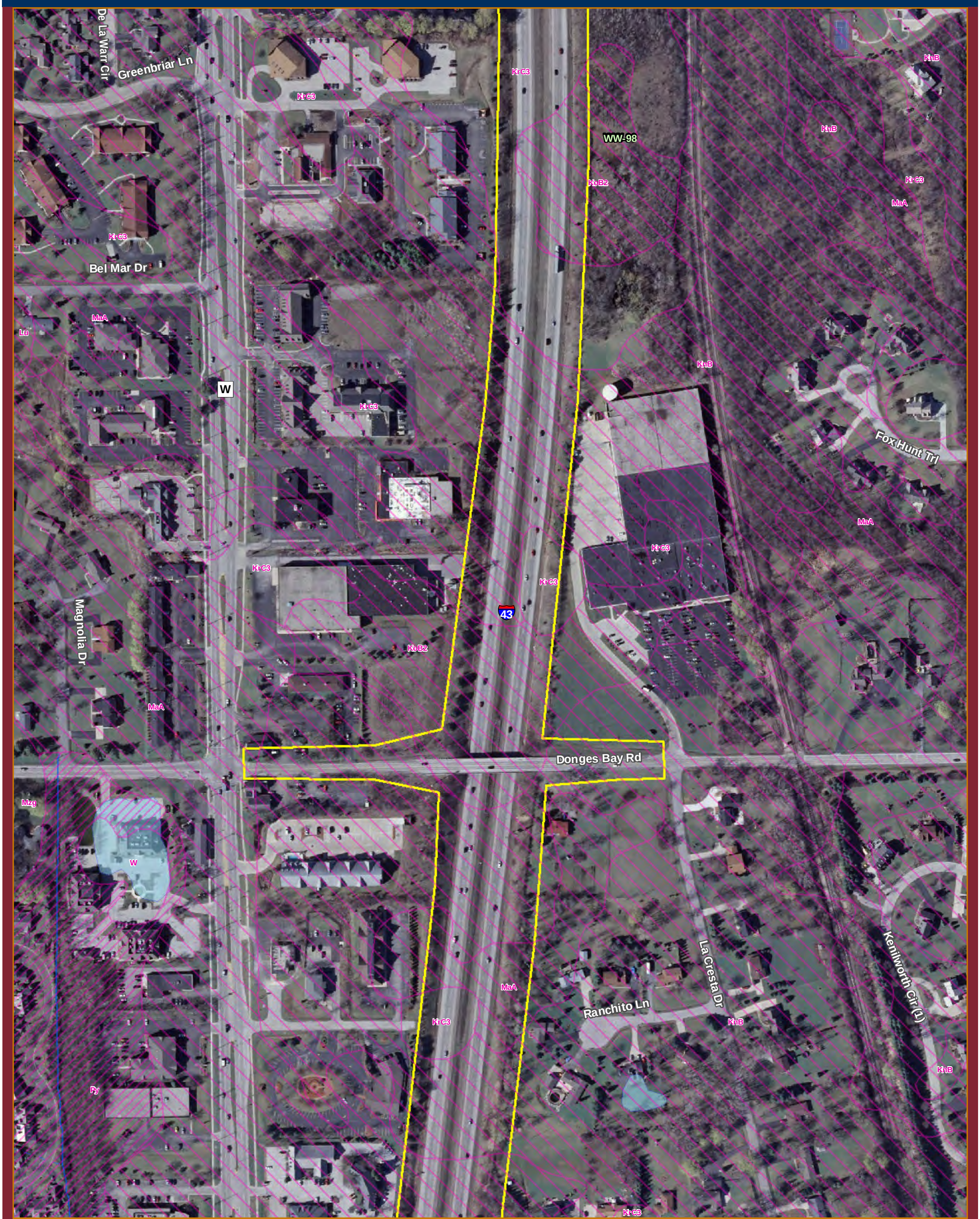

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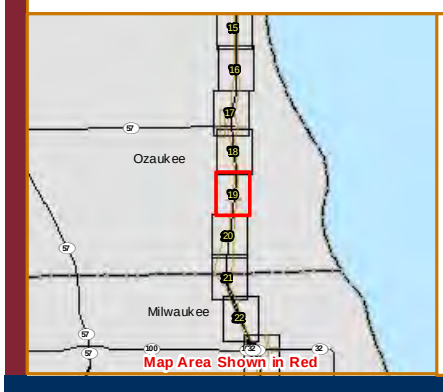

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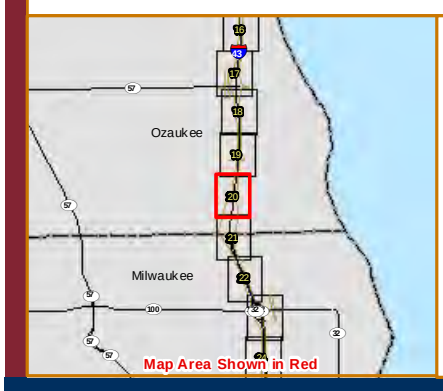

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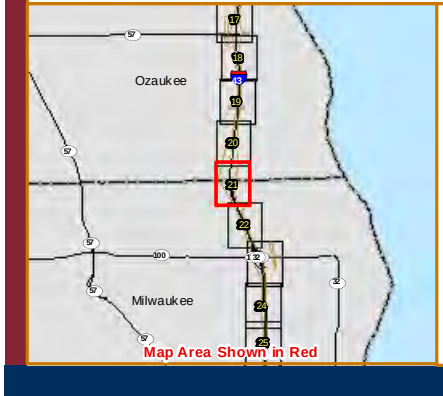

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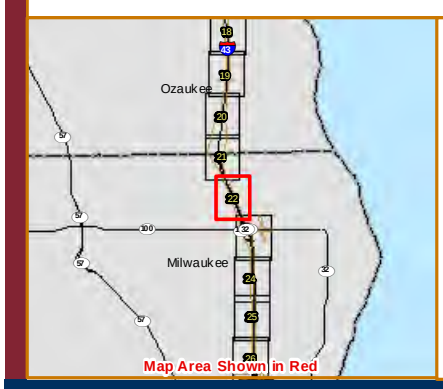

Location

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0 100 200
Feet

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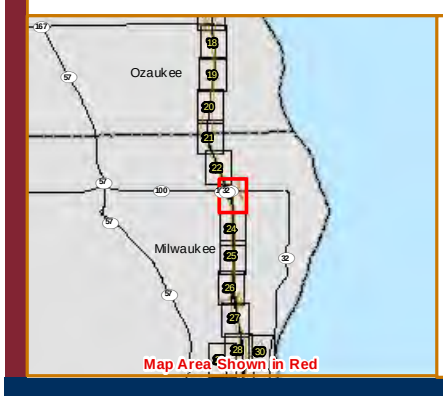

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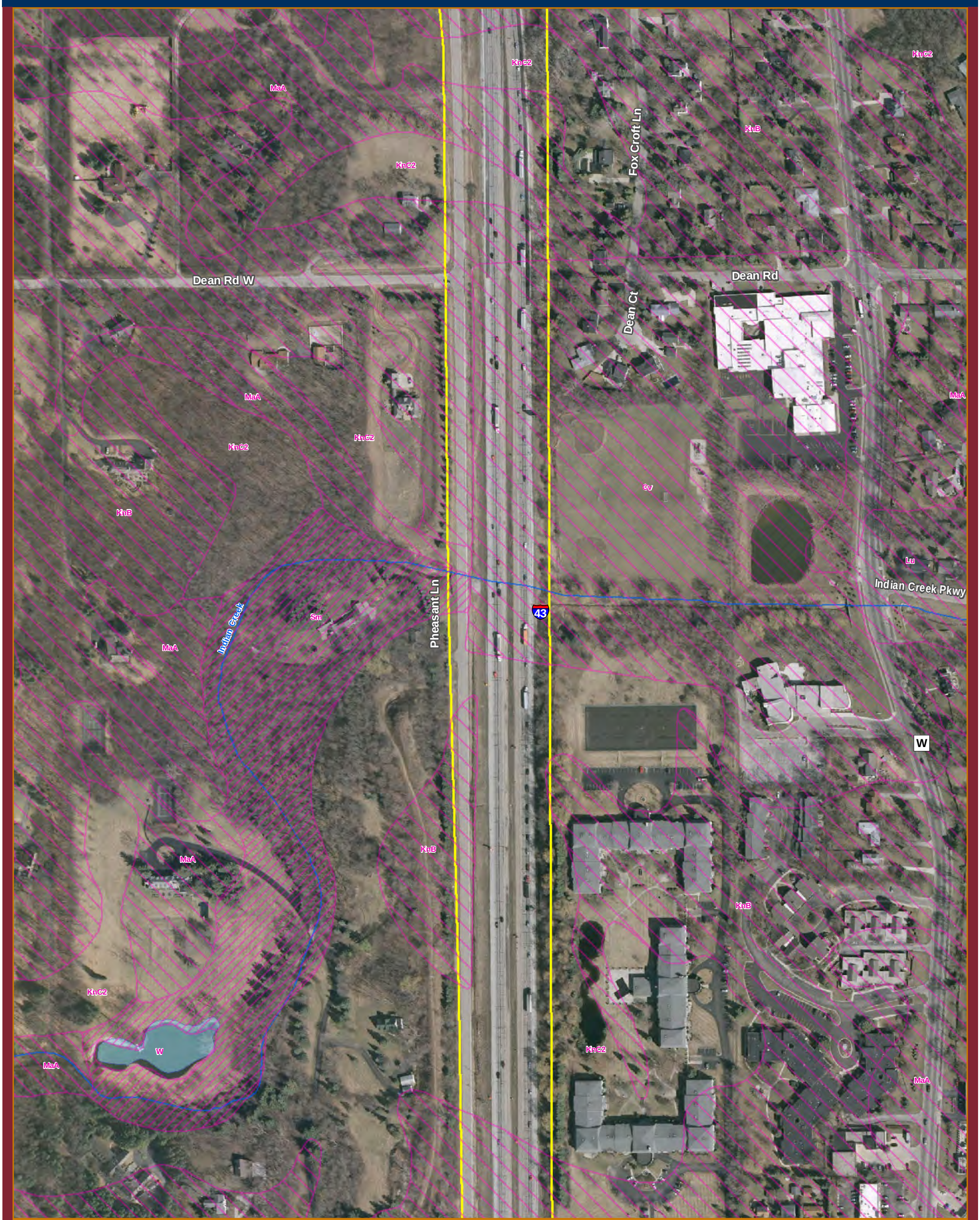

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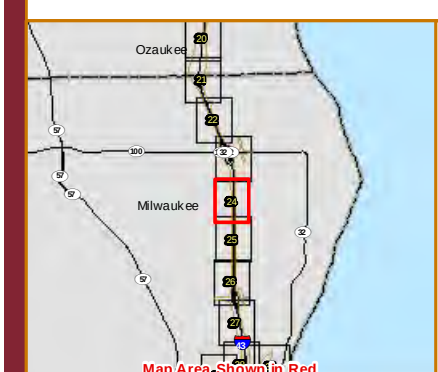

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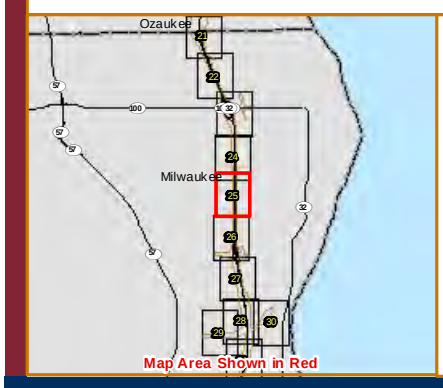

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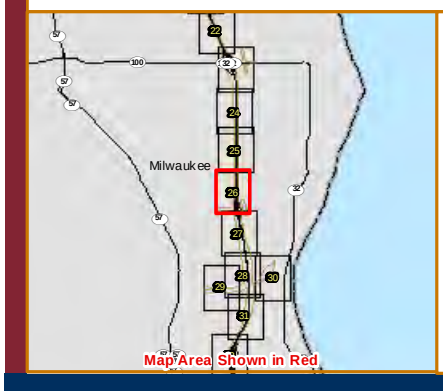

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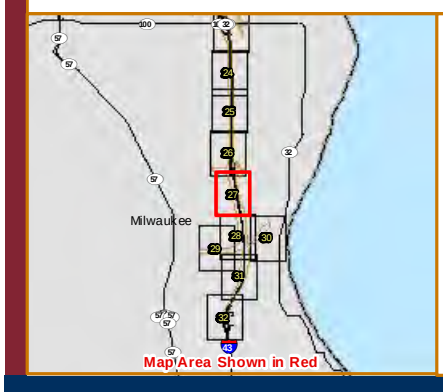

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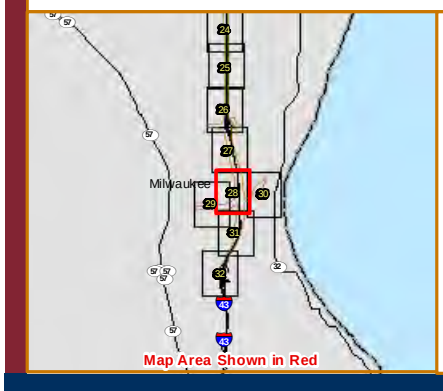

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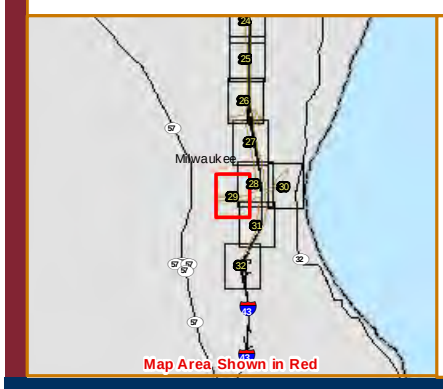

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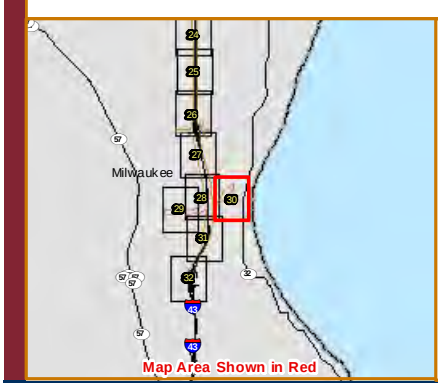

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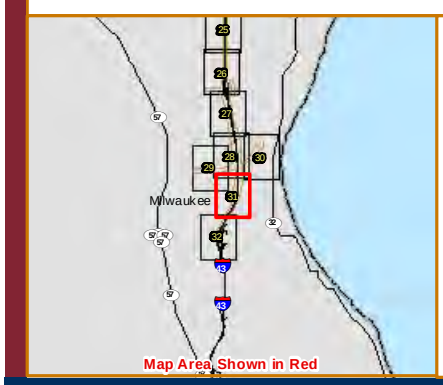

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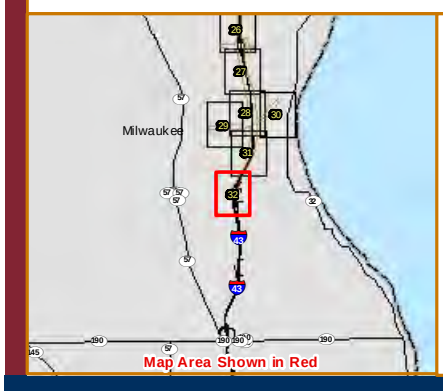

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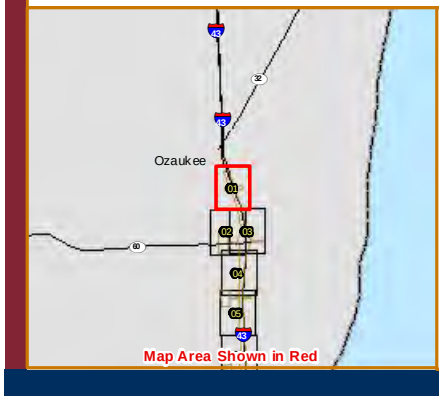

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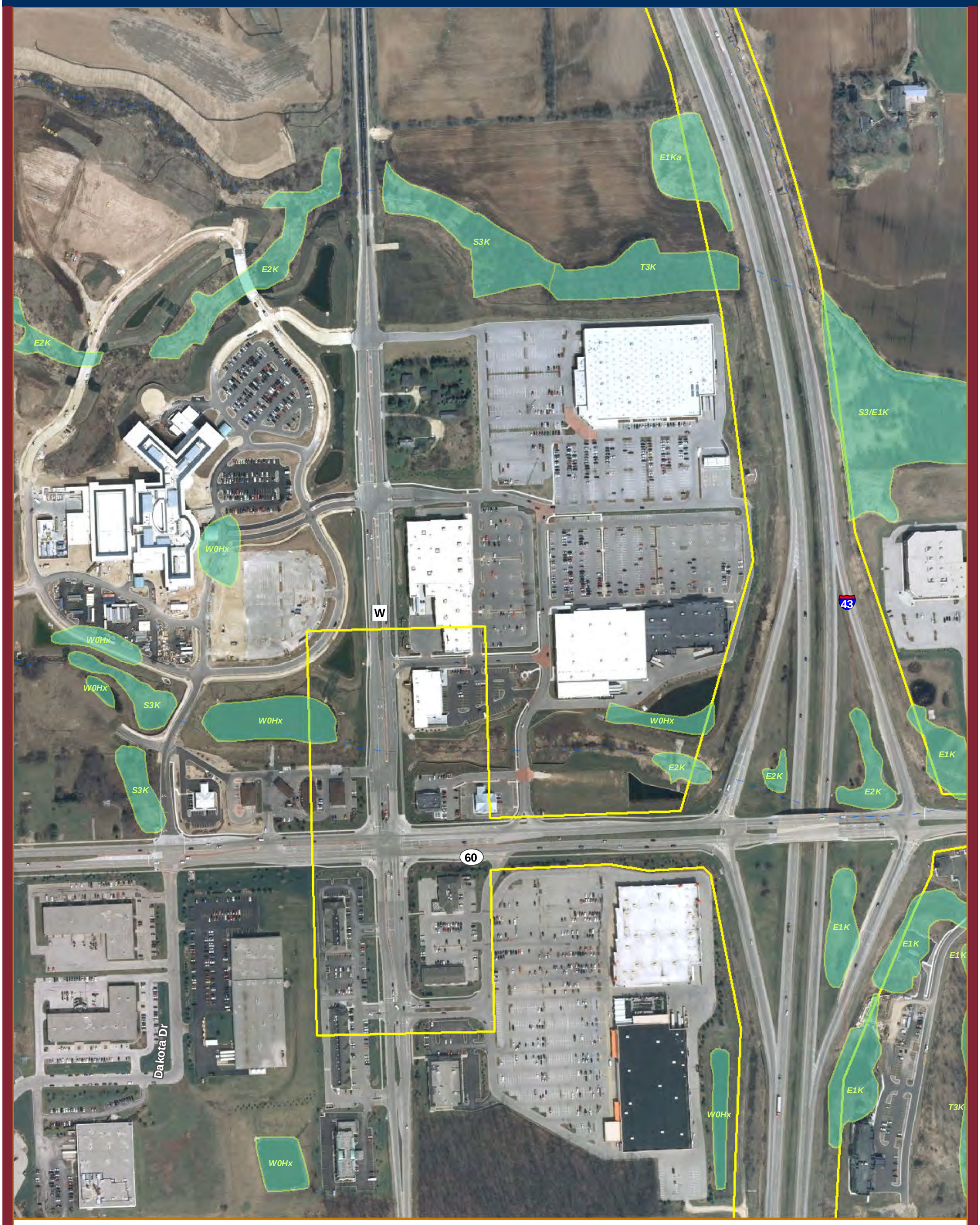

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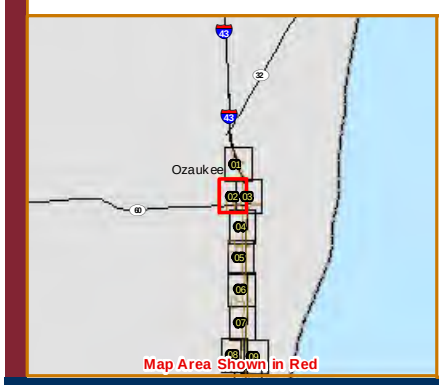

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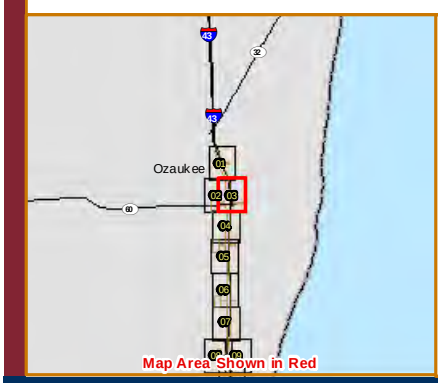

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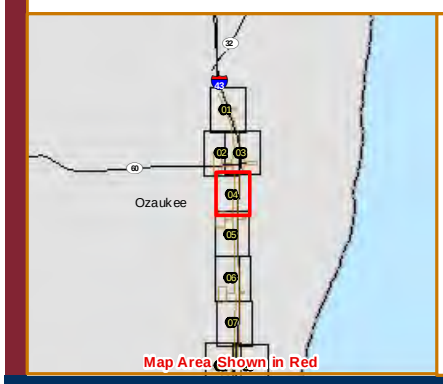

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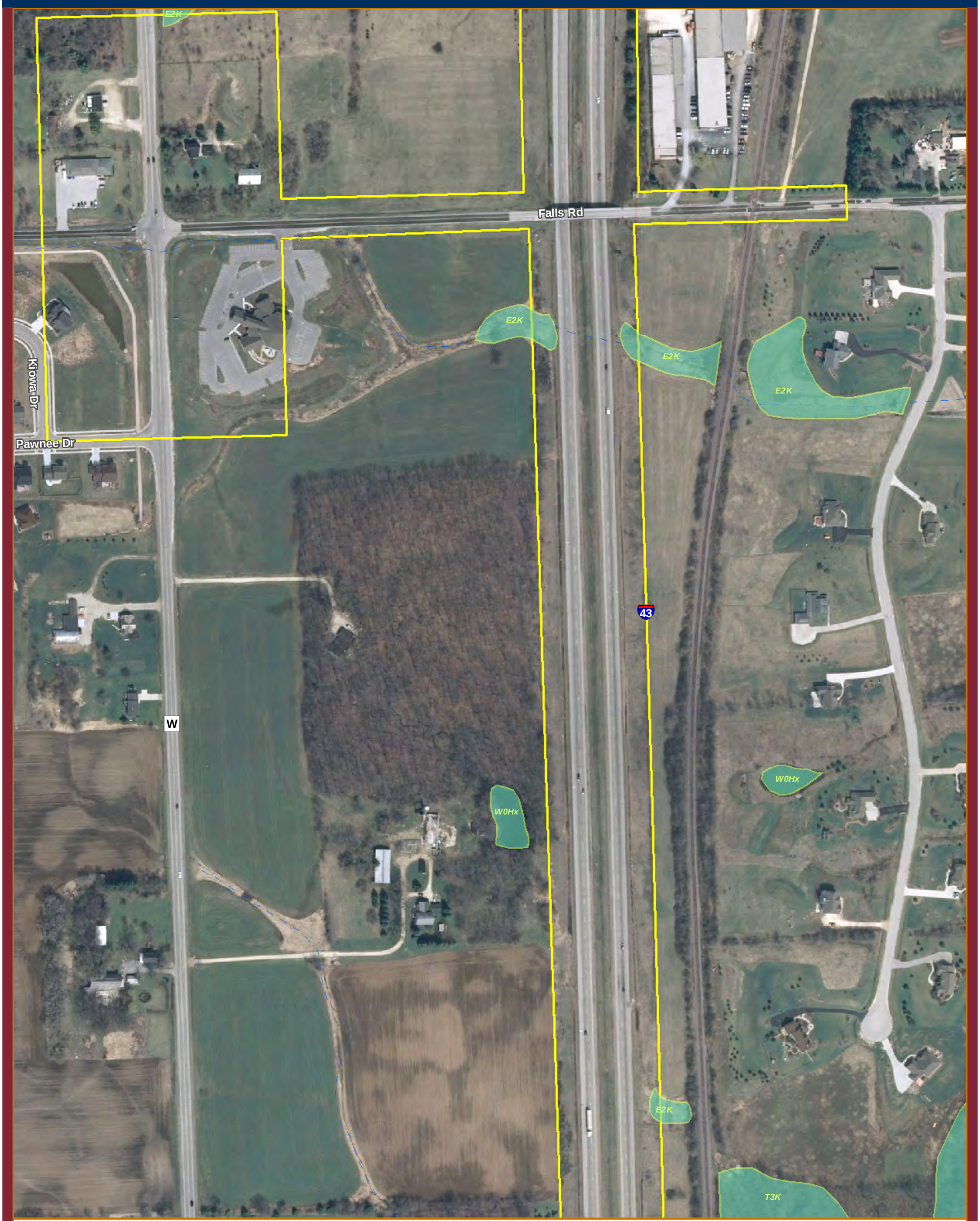

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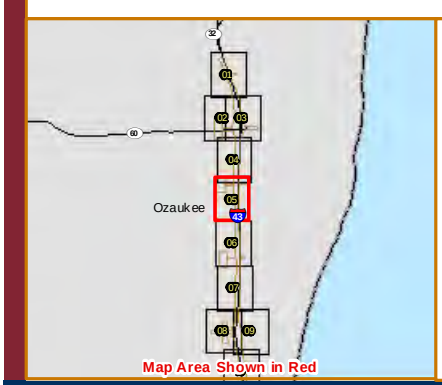

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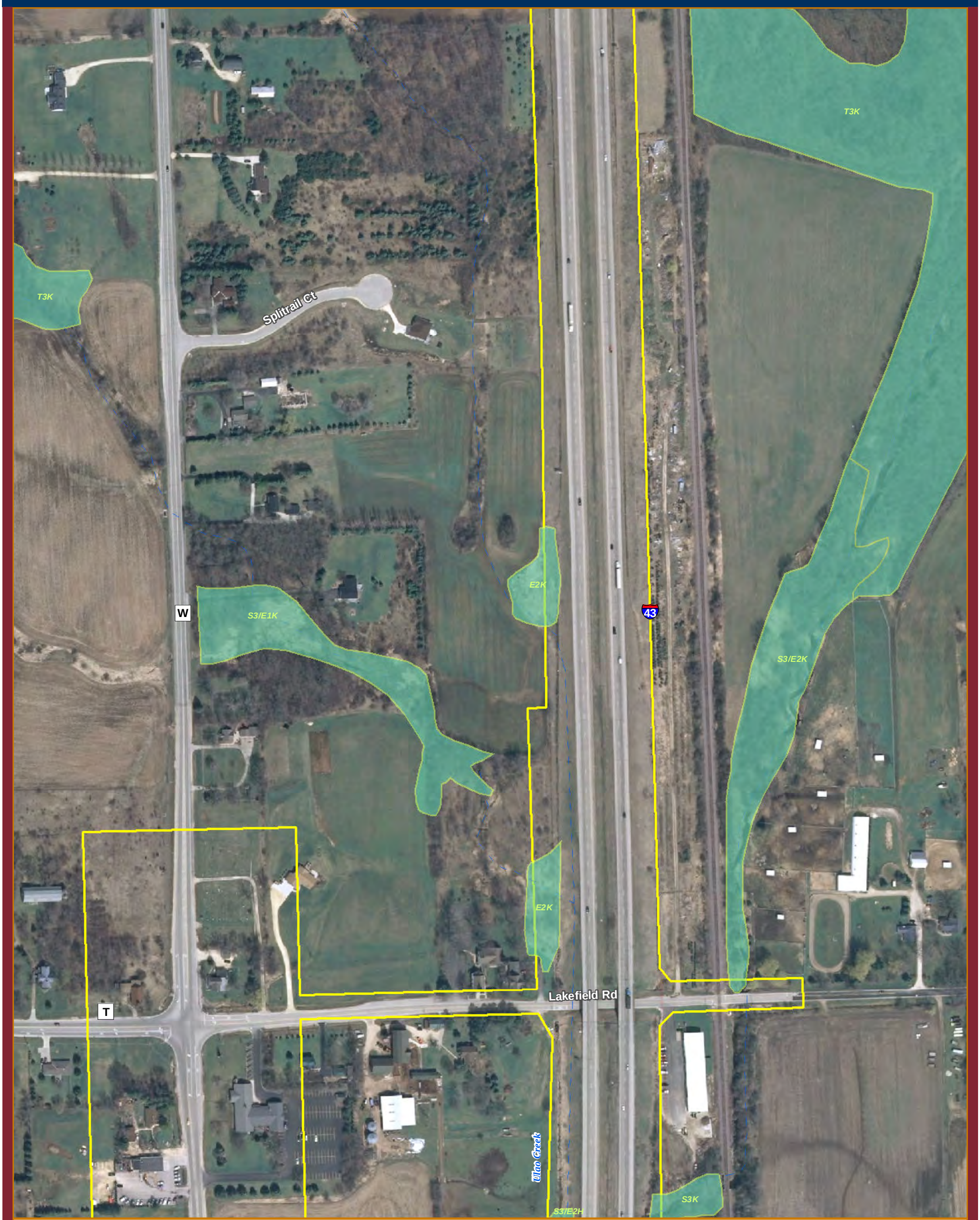

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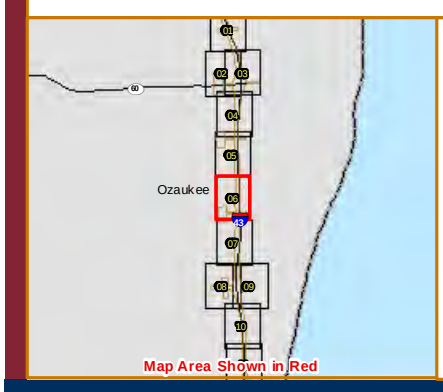

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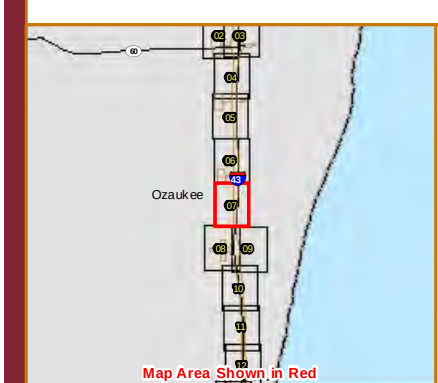

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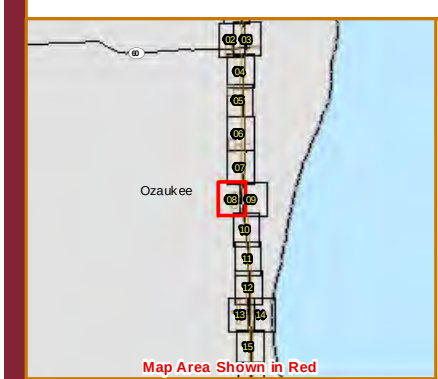

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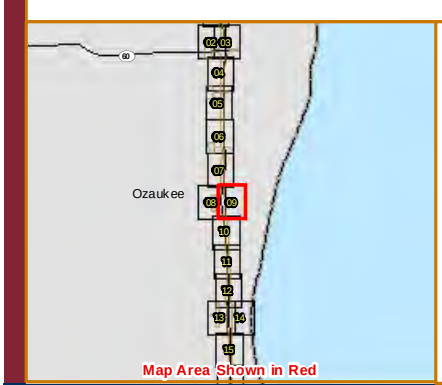

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Ozaukee and
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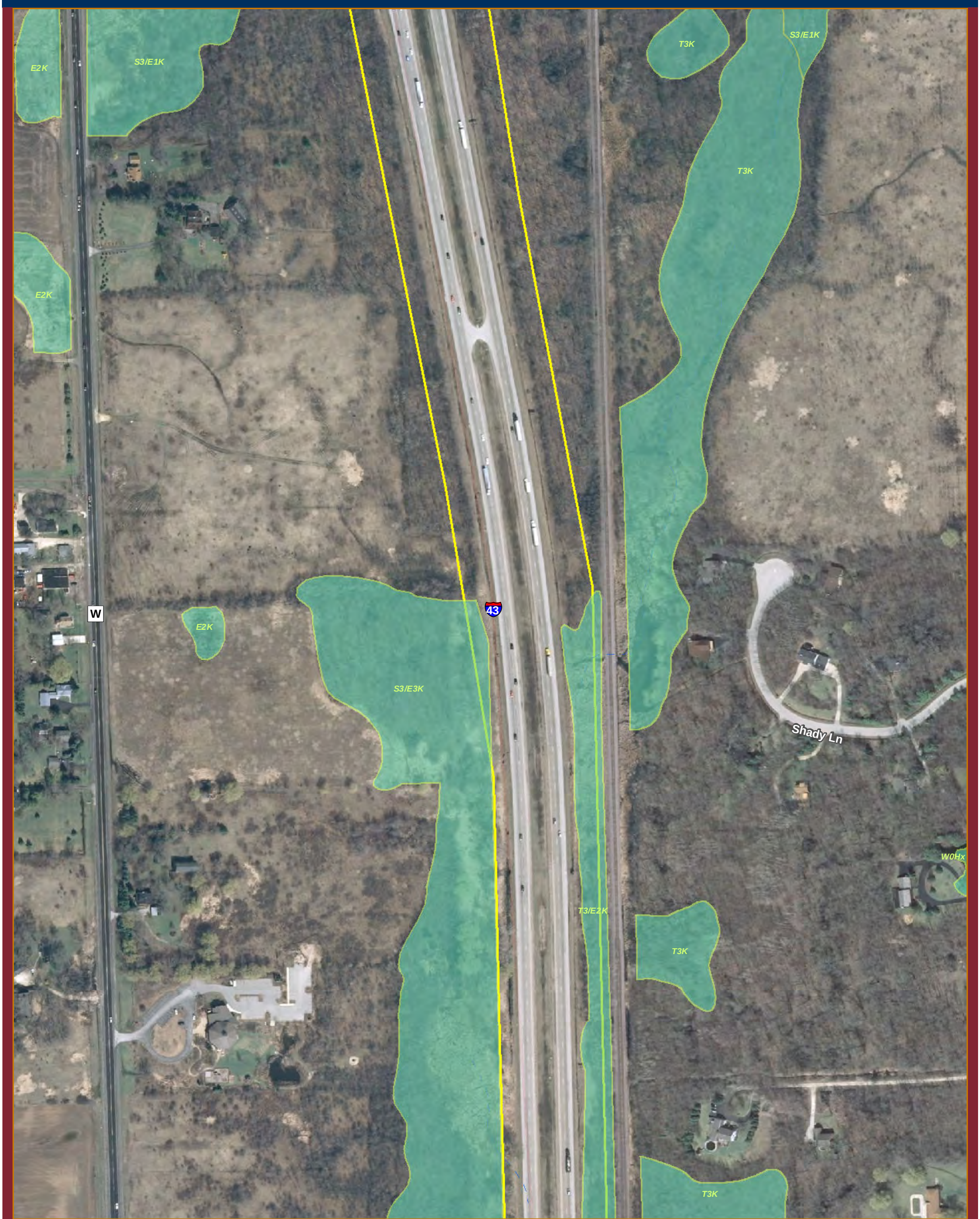

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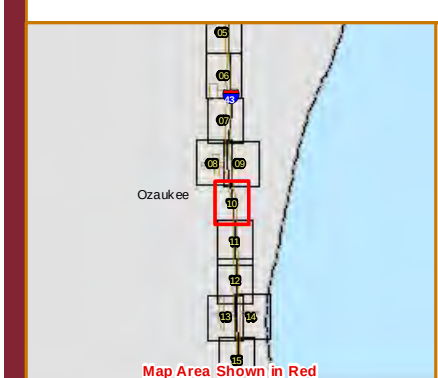

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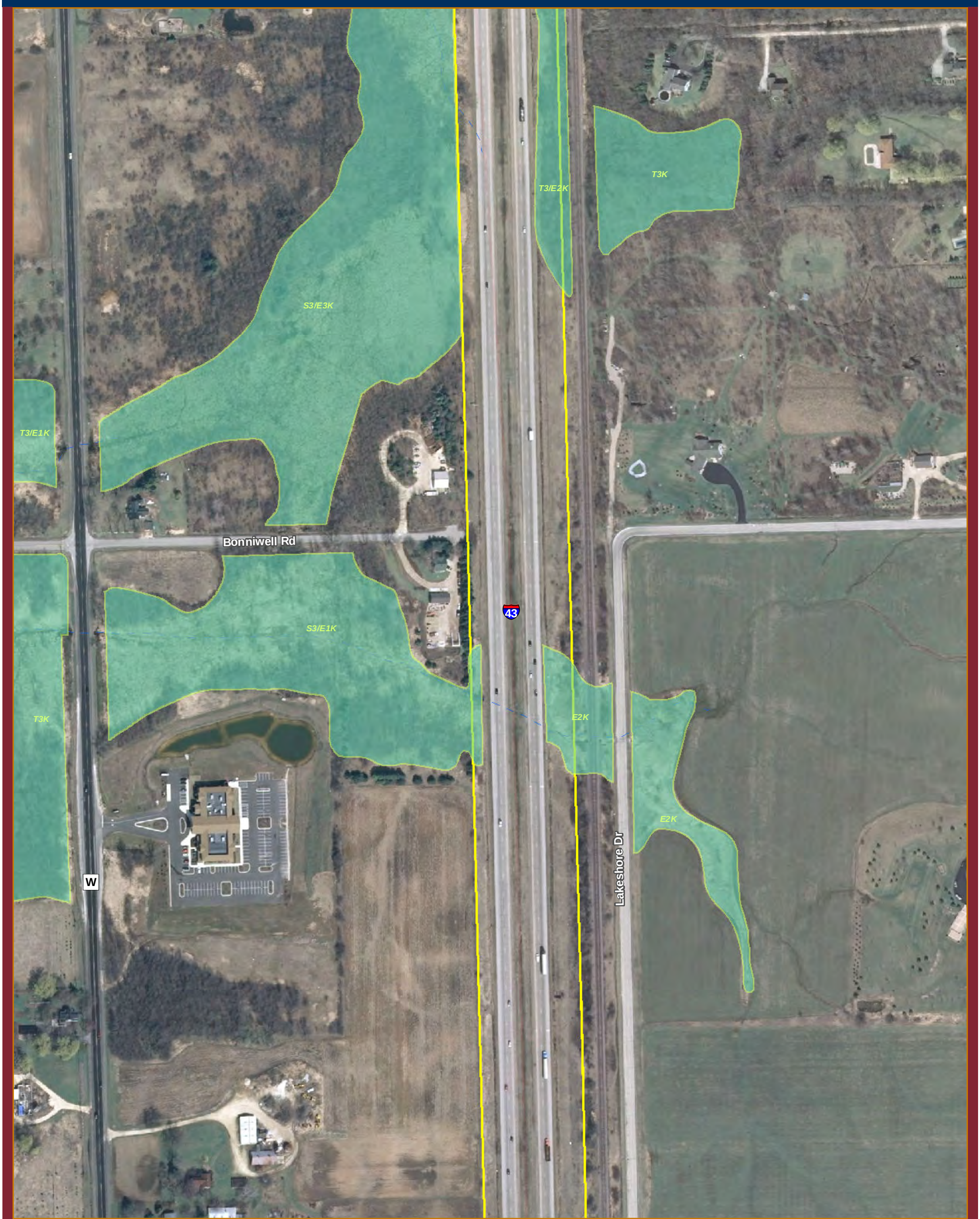

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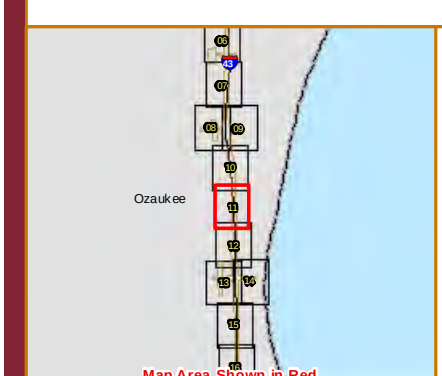

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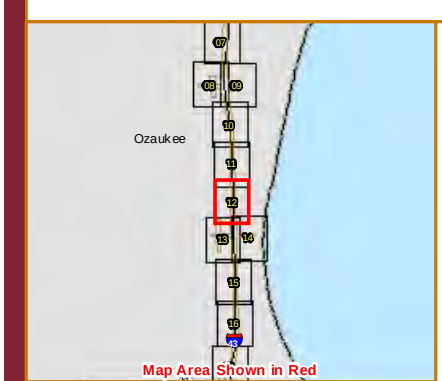

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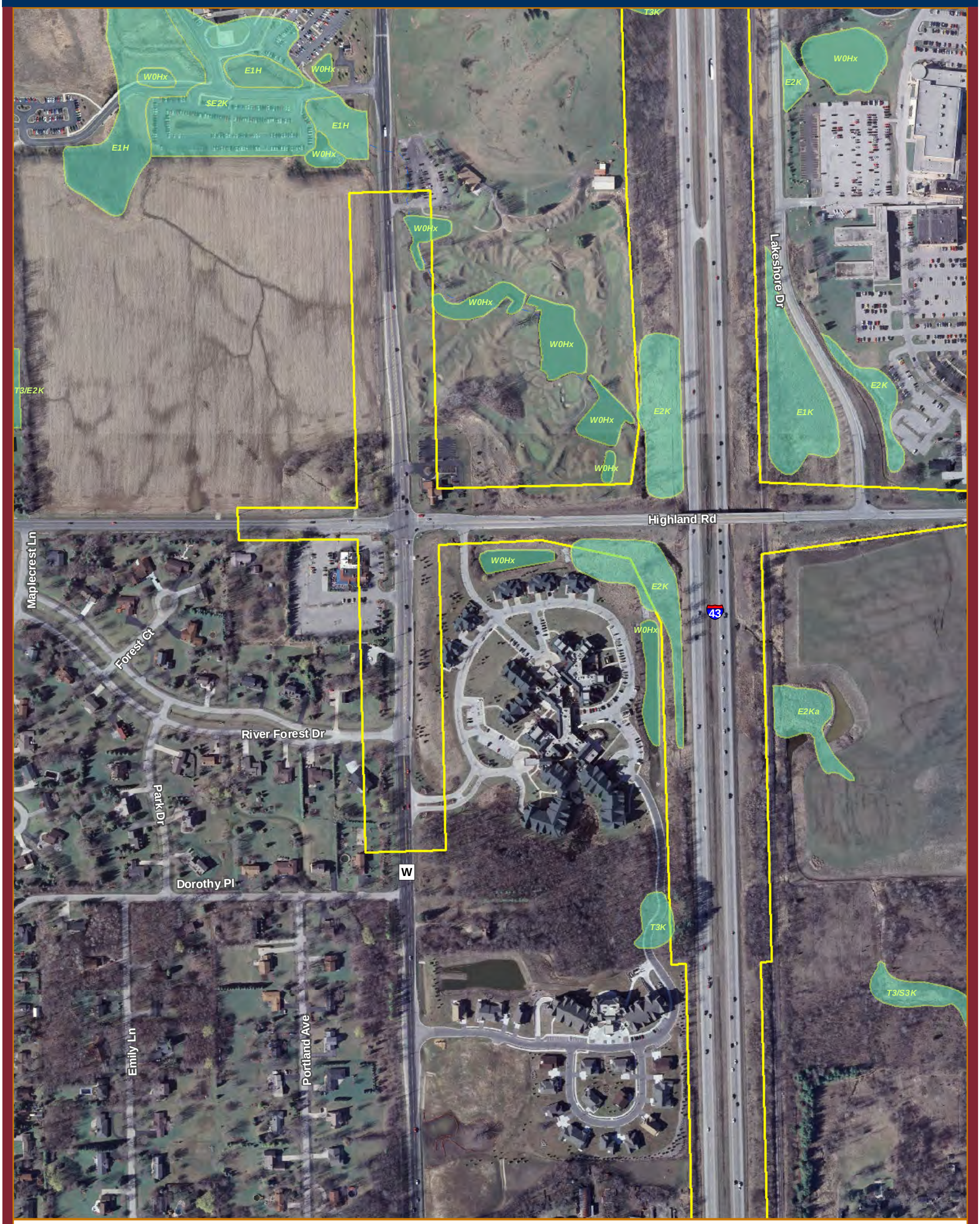

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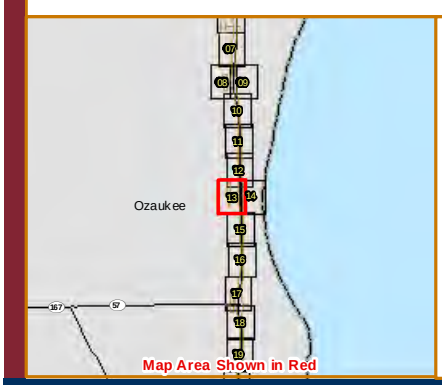

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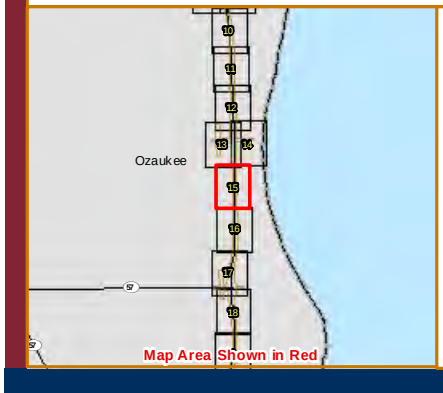

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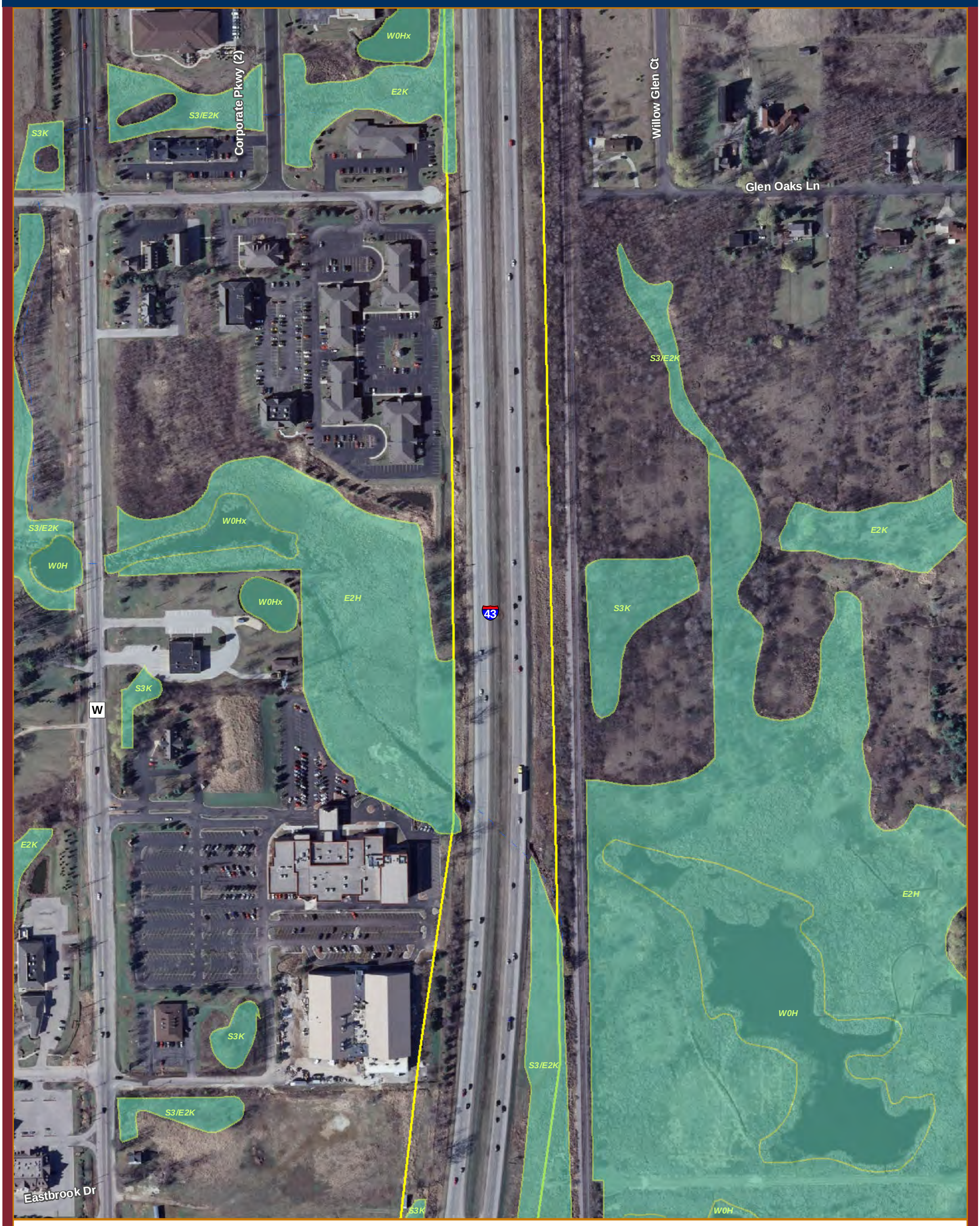

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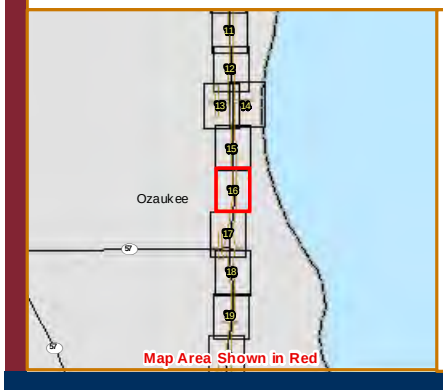

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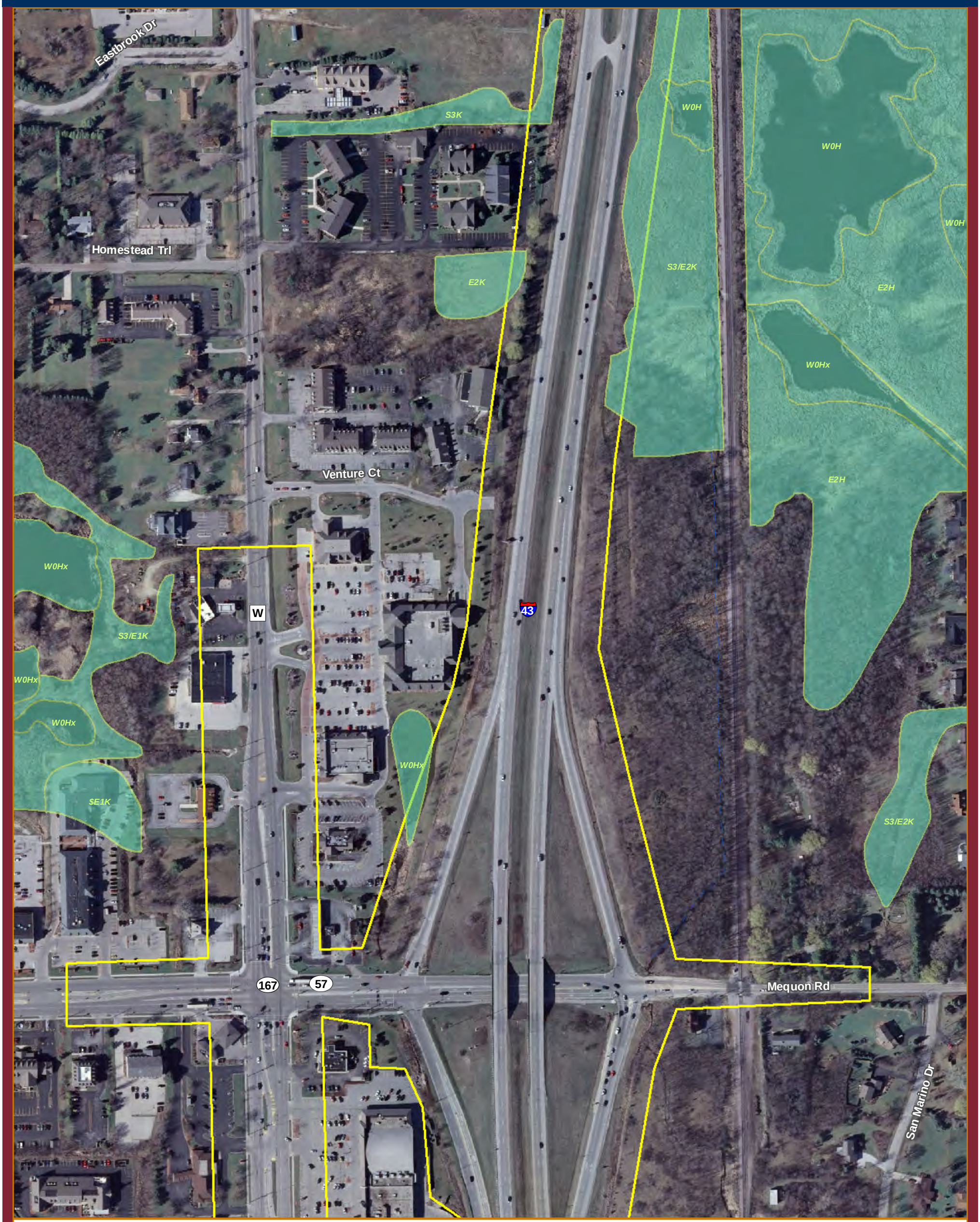

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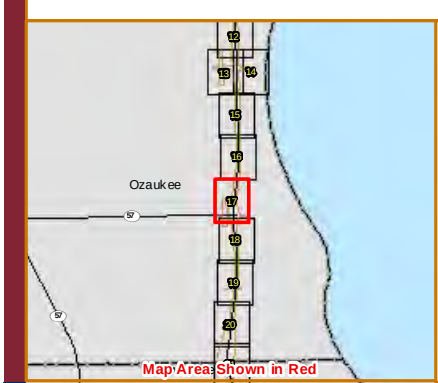

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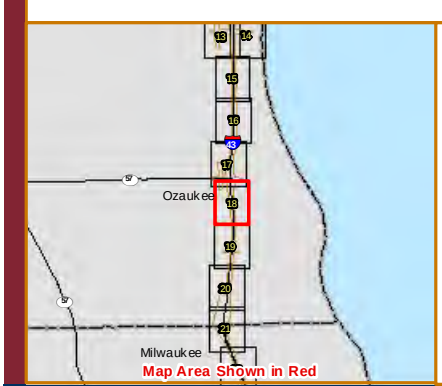

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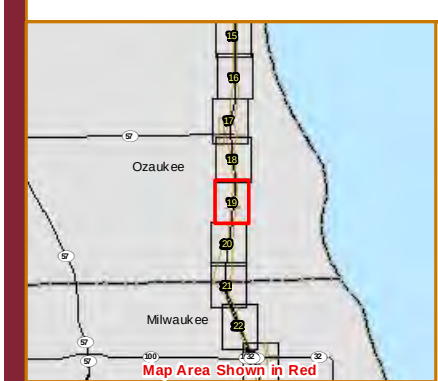

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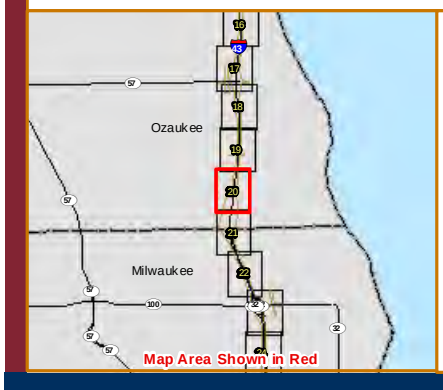

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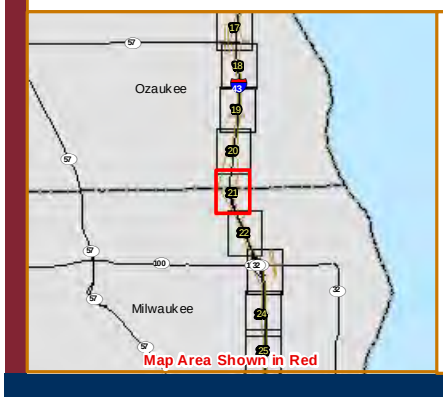

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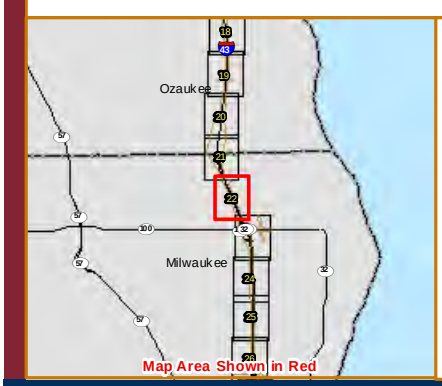

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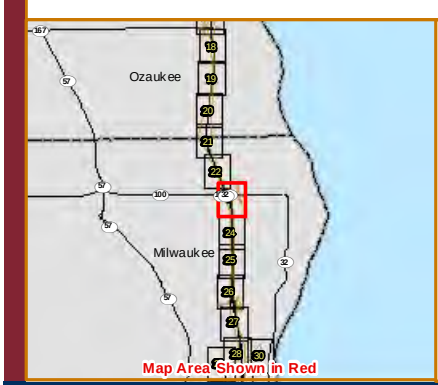

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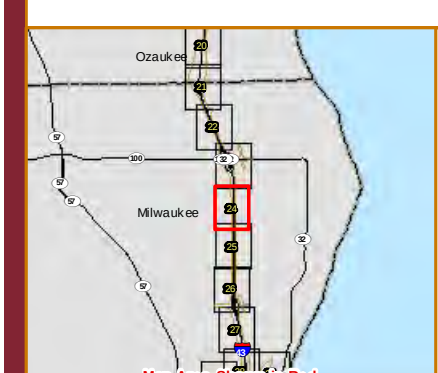

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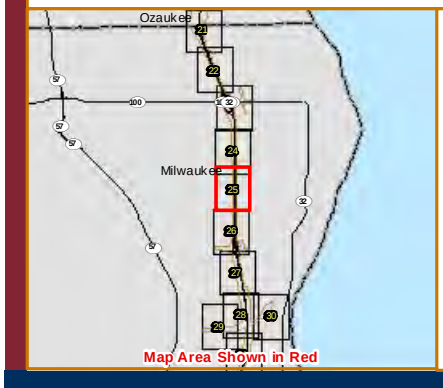

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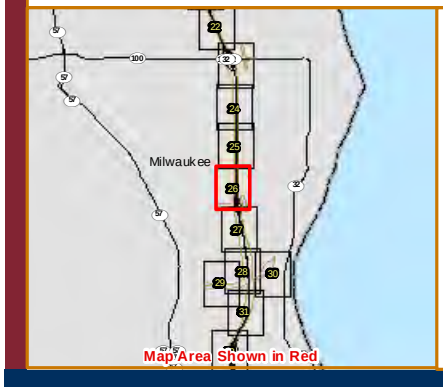

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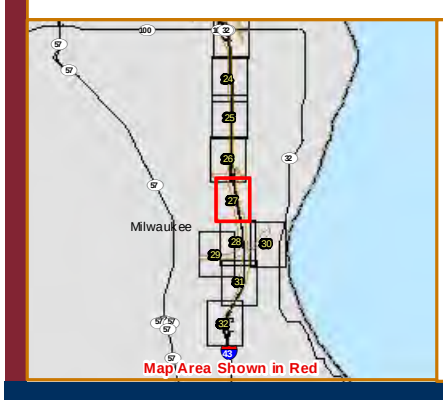

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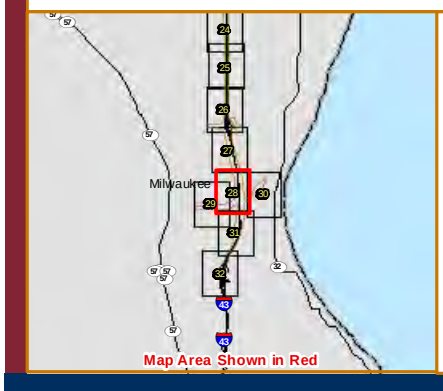

Location

Ozaukee and
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Project Information

Project Number: 193701774

Last Modified: September 23, 2012

0 100 200
Feet

Legend

- IH43 Study Corridor
- Wisconsin Wetland Inventory
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Data Sources include: USGS, WiDNR, ESRI, SEWRPC
Imagery: 2010 WROC

Stantec

	Initials	Date
Prepared by	ACS	20120923
Peer Review by	CP	20120923
Final Review by	EP	20120923

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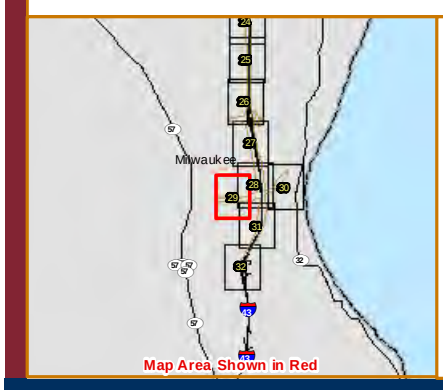

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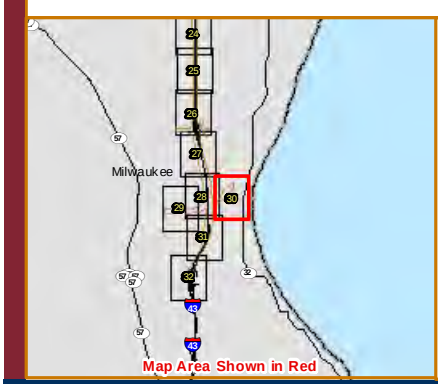

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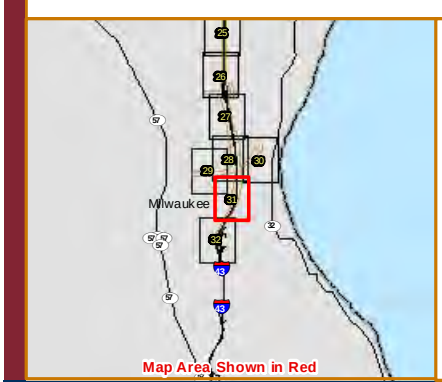

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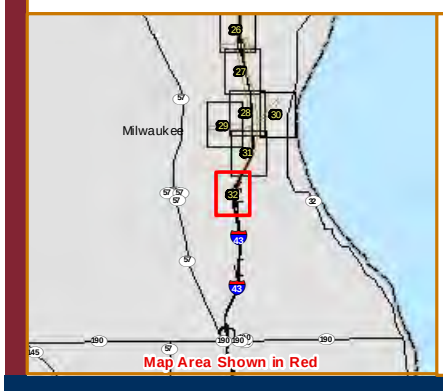

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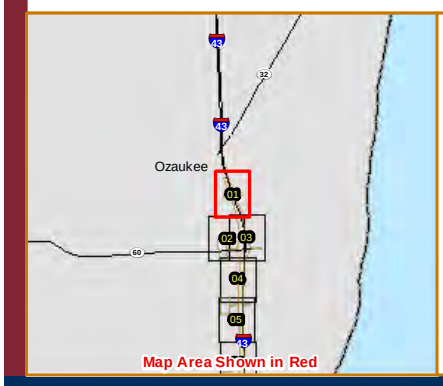

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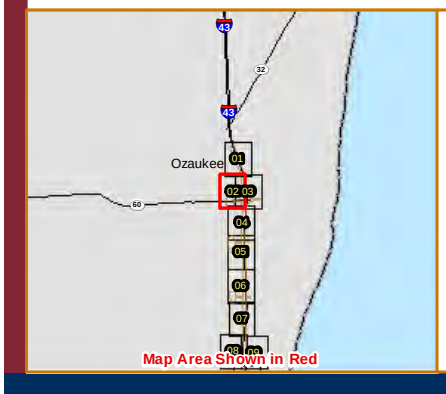

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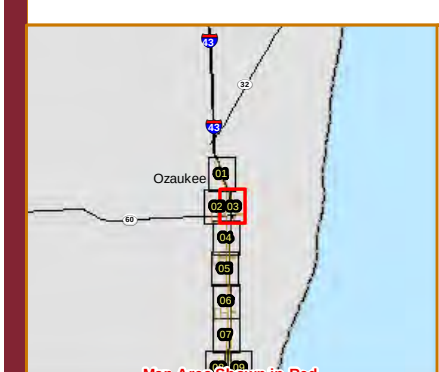

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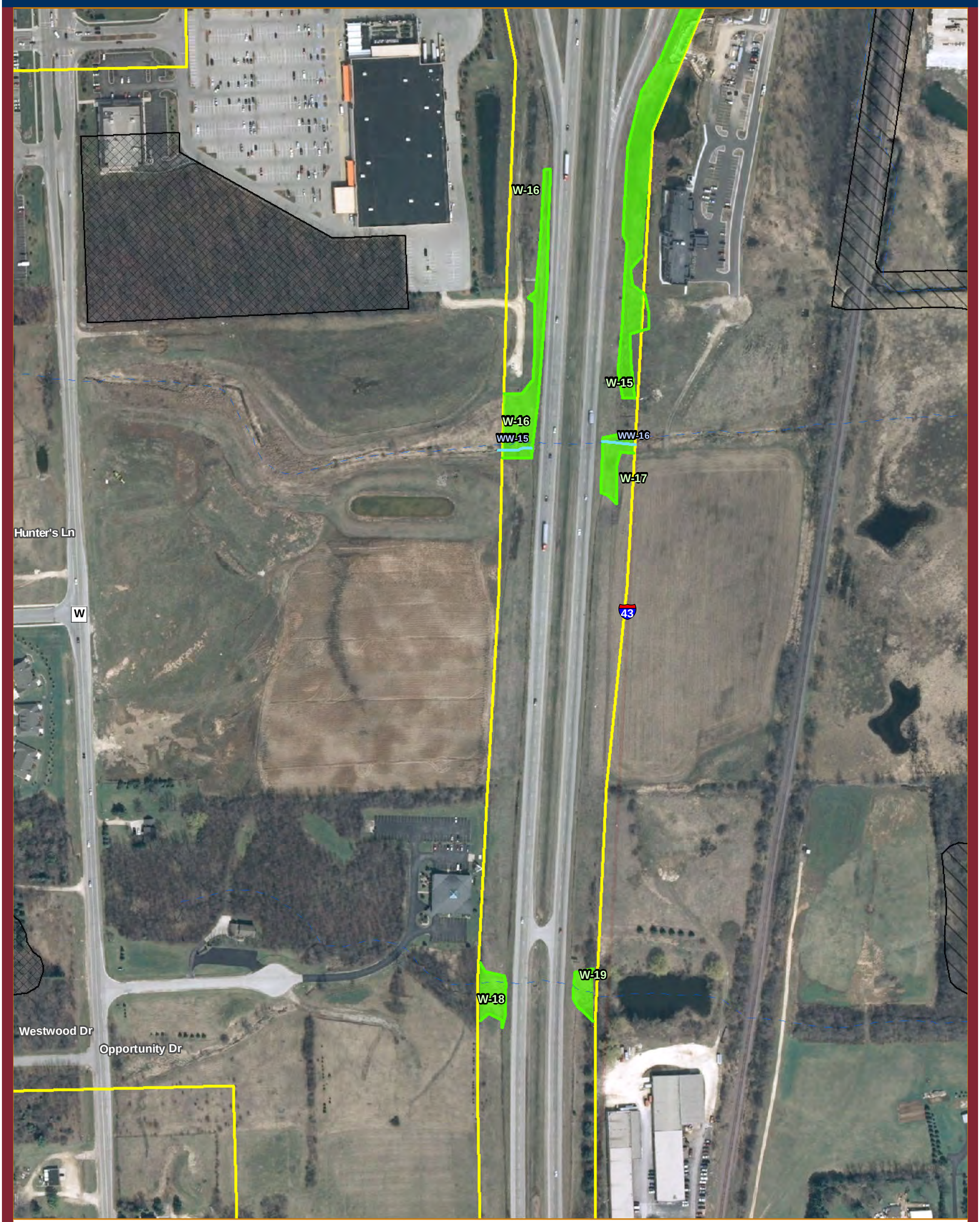

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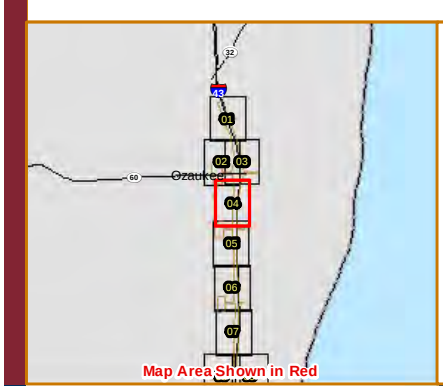

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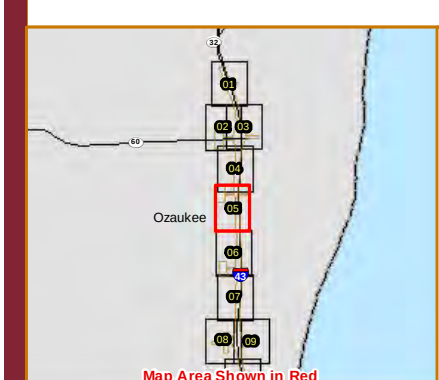

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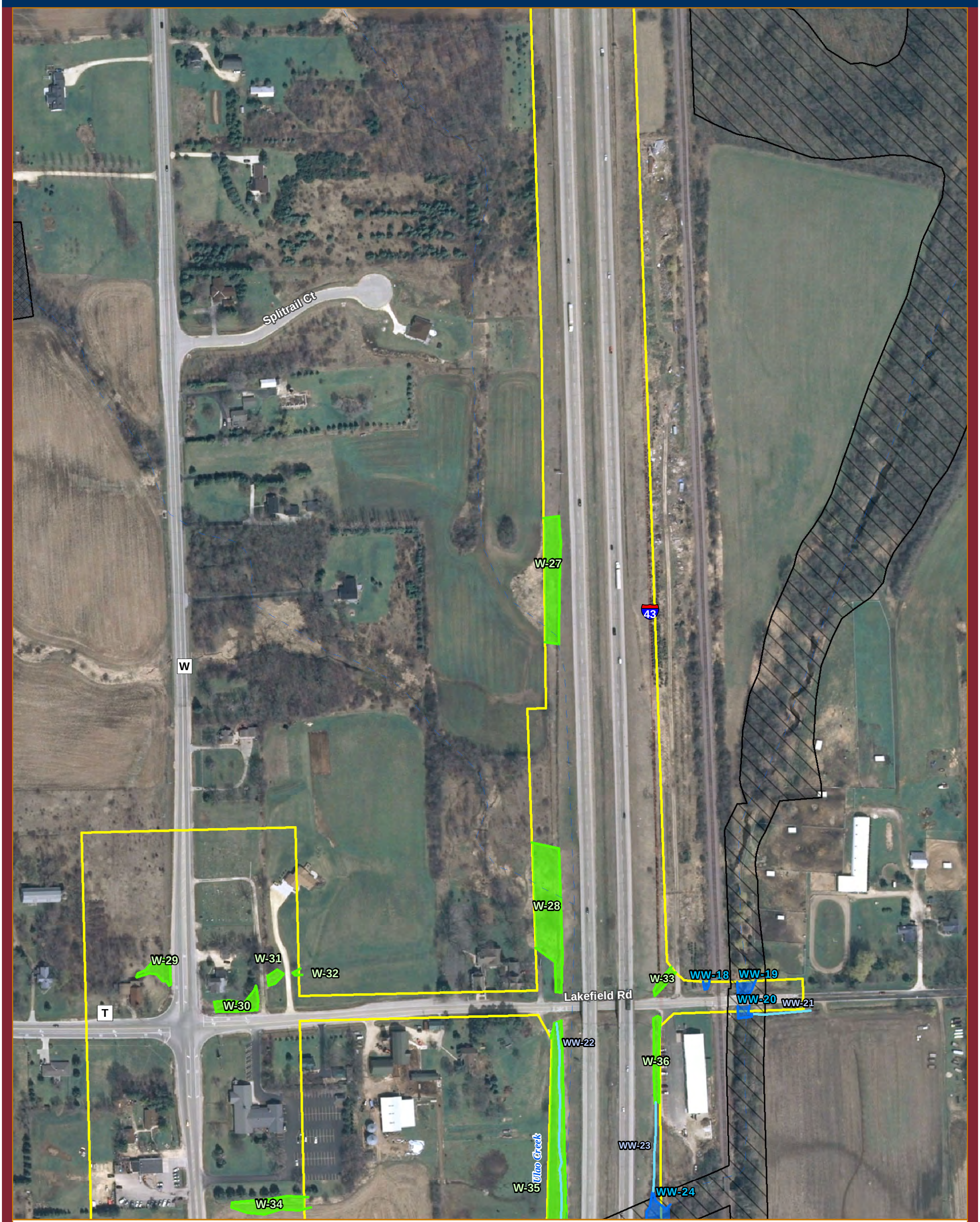

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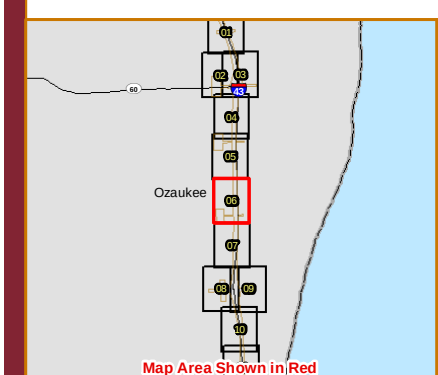

Location

Ozaukee and
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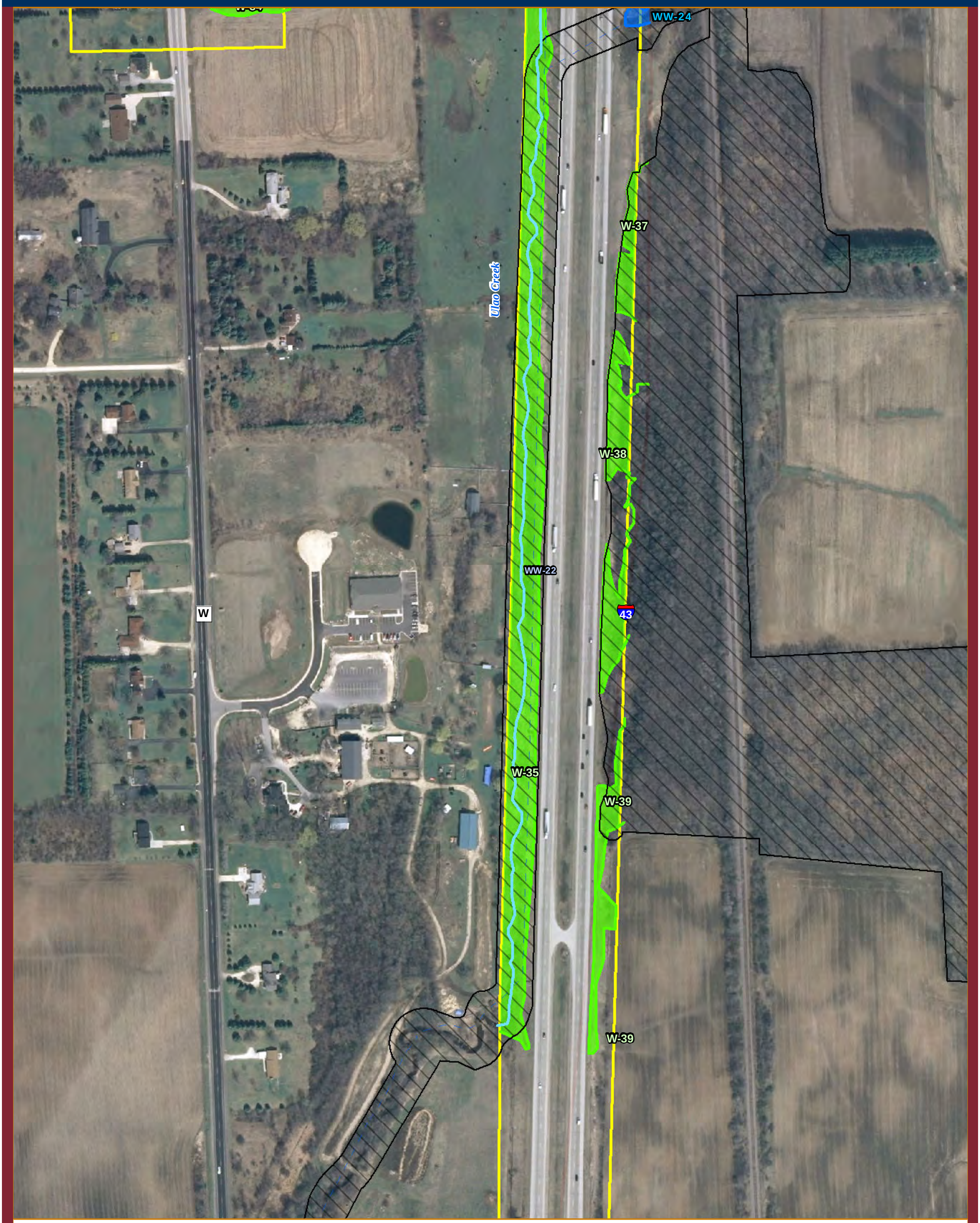

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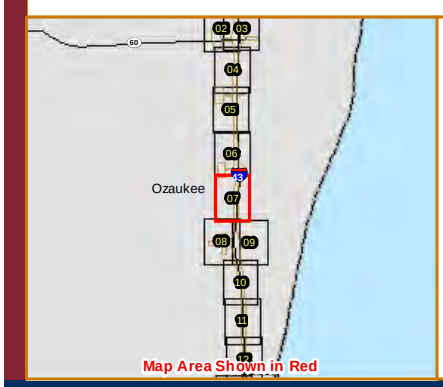

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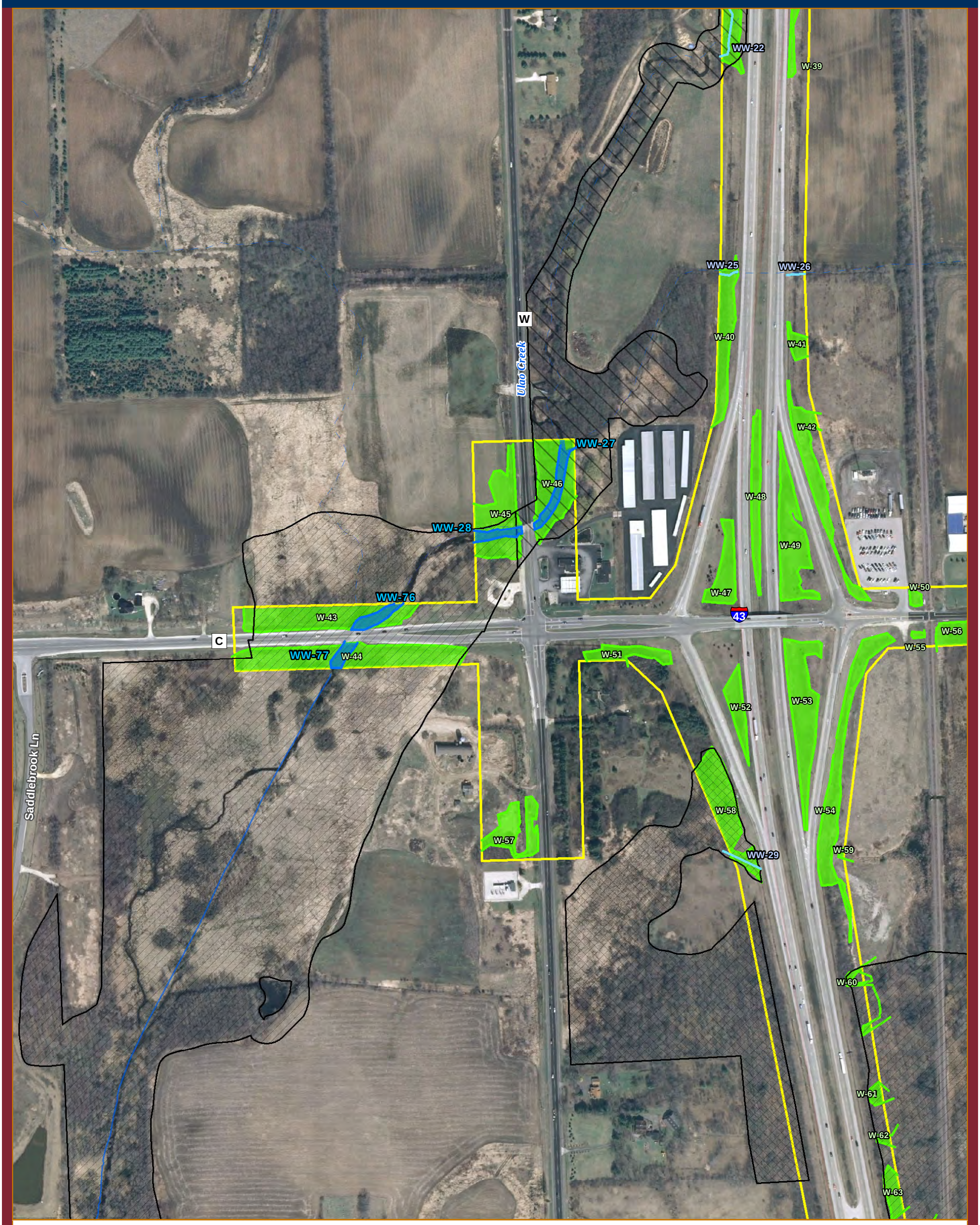

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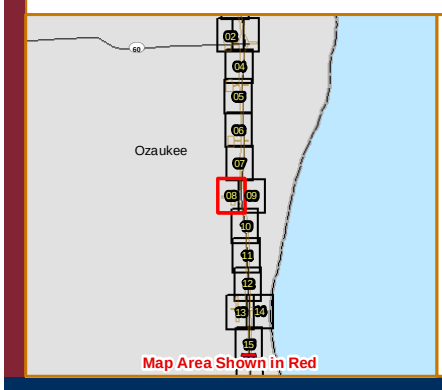

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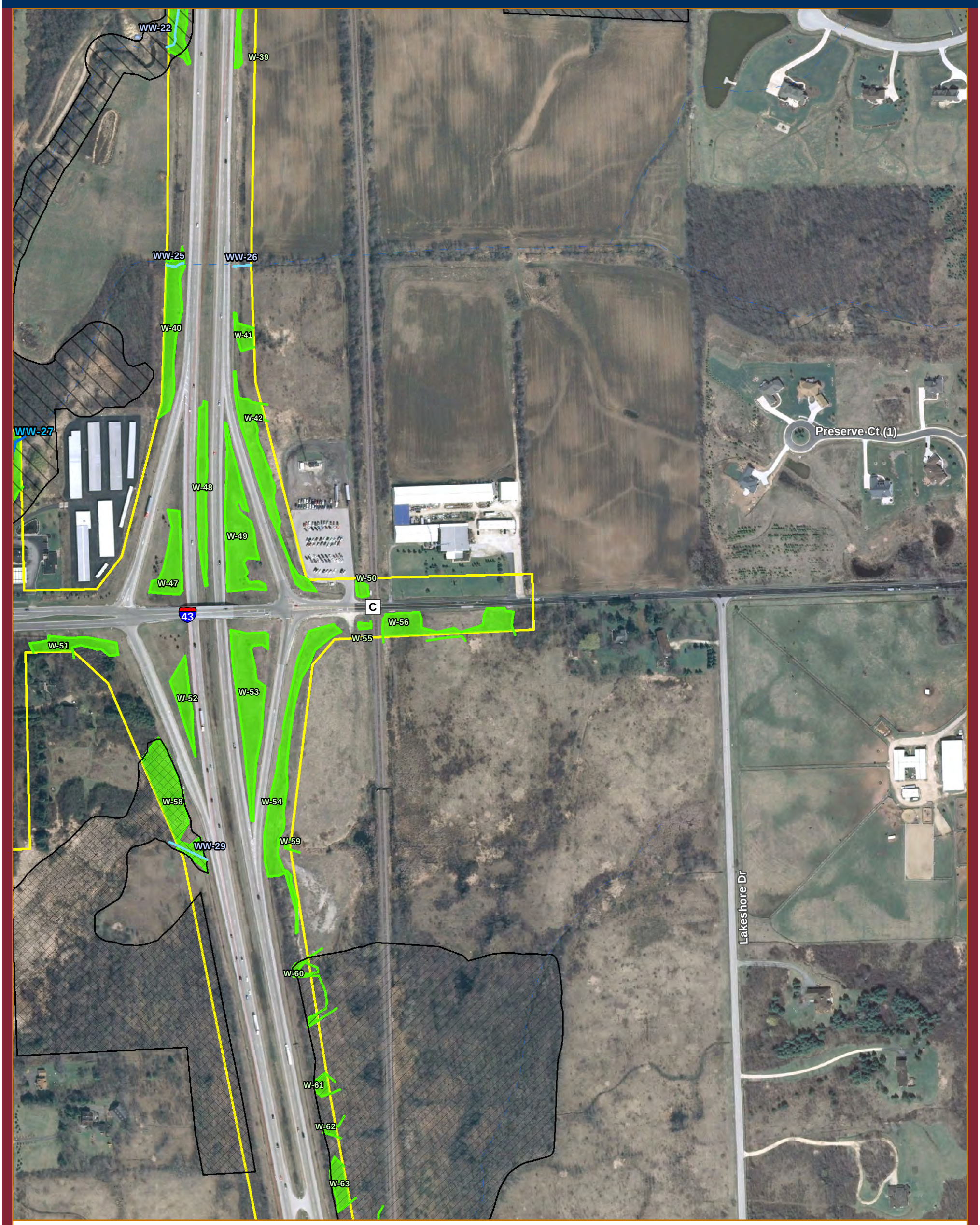

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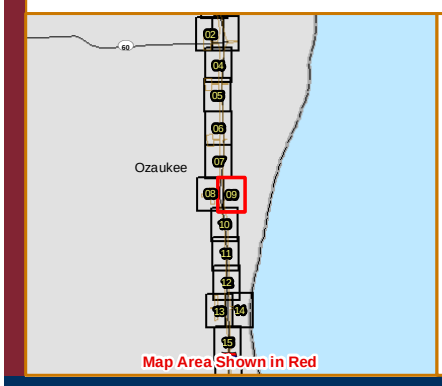

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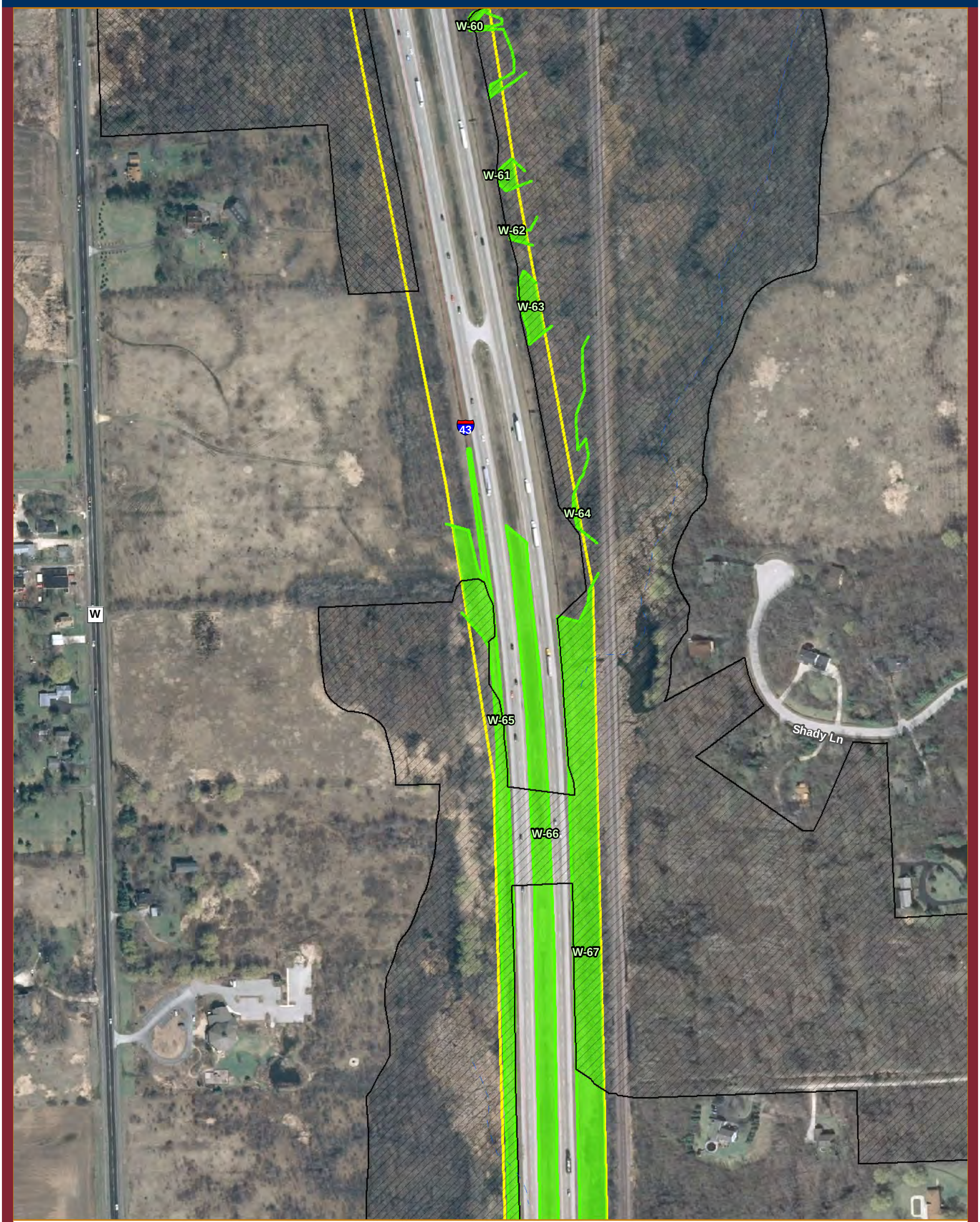

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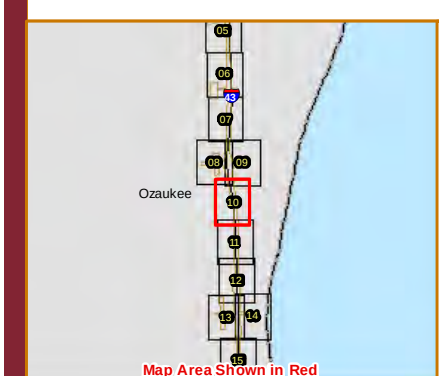

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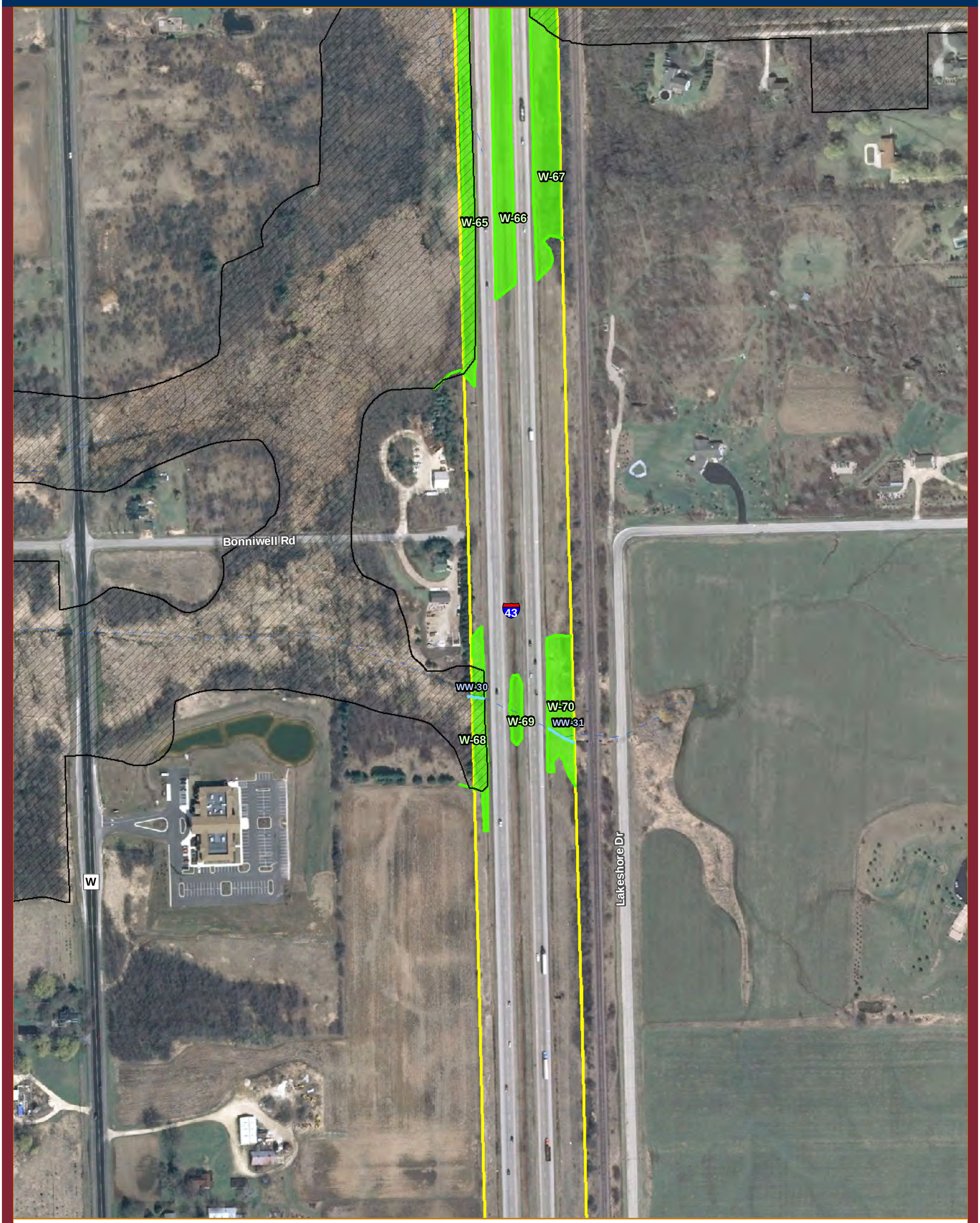

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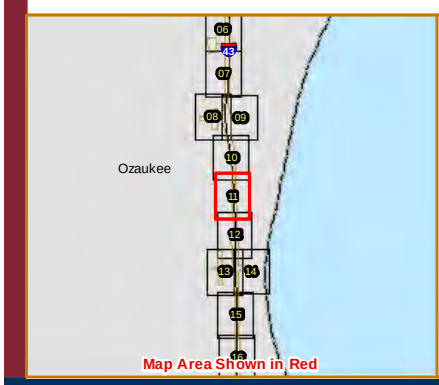

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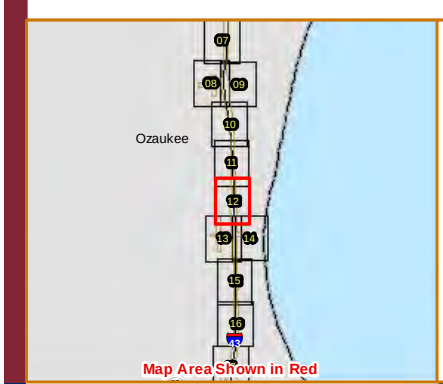

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- IH43 Study Corridor
- Field Delineated Wetlands
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- Field Delineated Waterway Bank
- Field Delineated Waterbodies

SEWRPC Environmental Corridors

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- Secondary Environmental Corridor

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream

Data Sources include: USGS, WIDNR, ESRI, SEWRPC
Imagery: 2010 WROC

Stantec

	Initials	Date
Prepared by	ACS	20120923
Peer Review by	CP	20120923
Final Review by	EP	20120923

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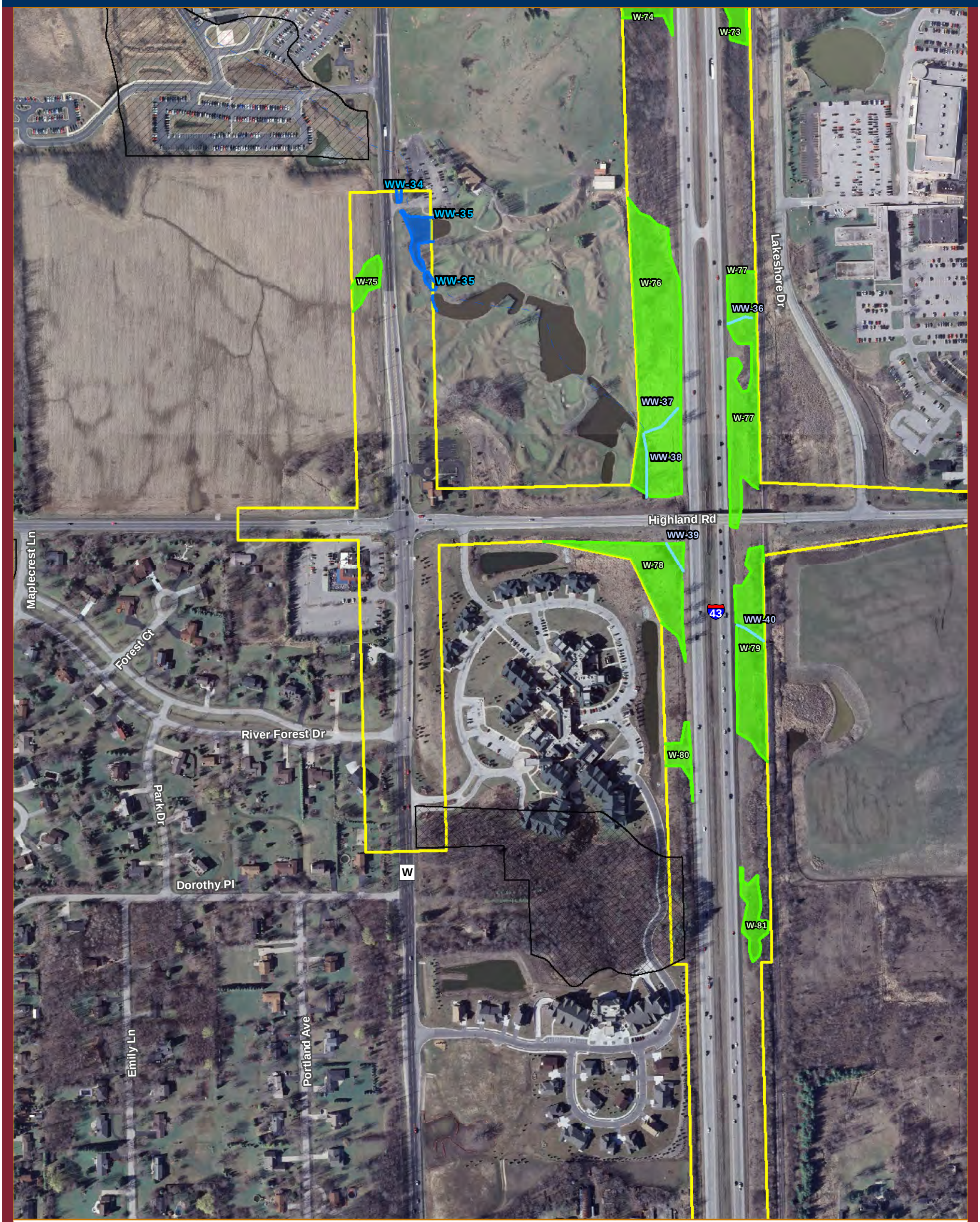
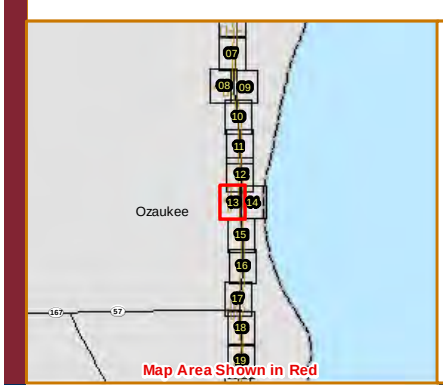


Figure 4. Preliminary Field Delineated Features
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



Location

Ozaukee and
Milwaukee Counties

Project Information

Project Number: 193701774

Last Modified: September 23, 2012

0 100 200
Feet

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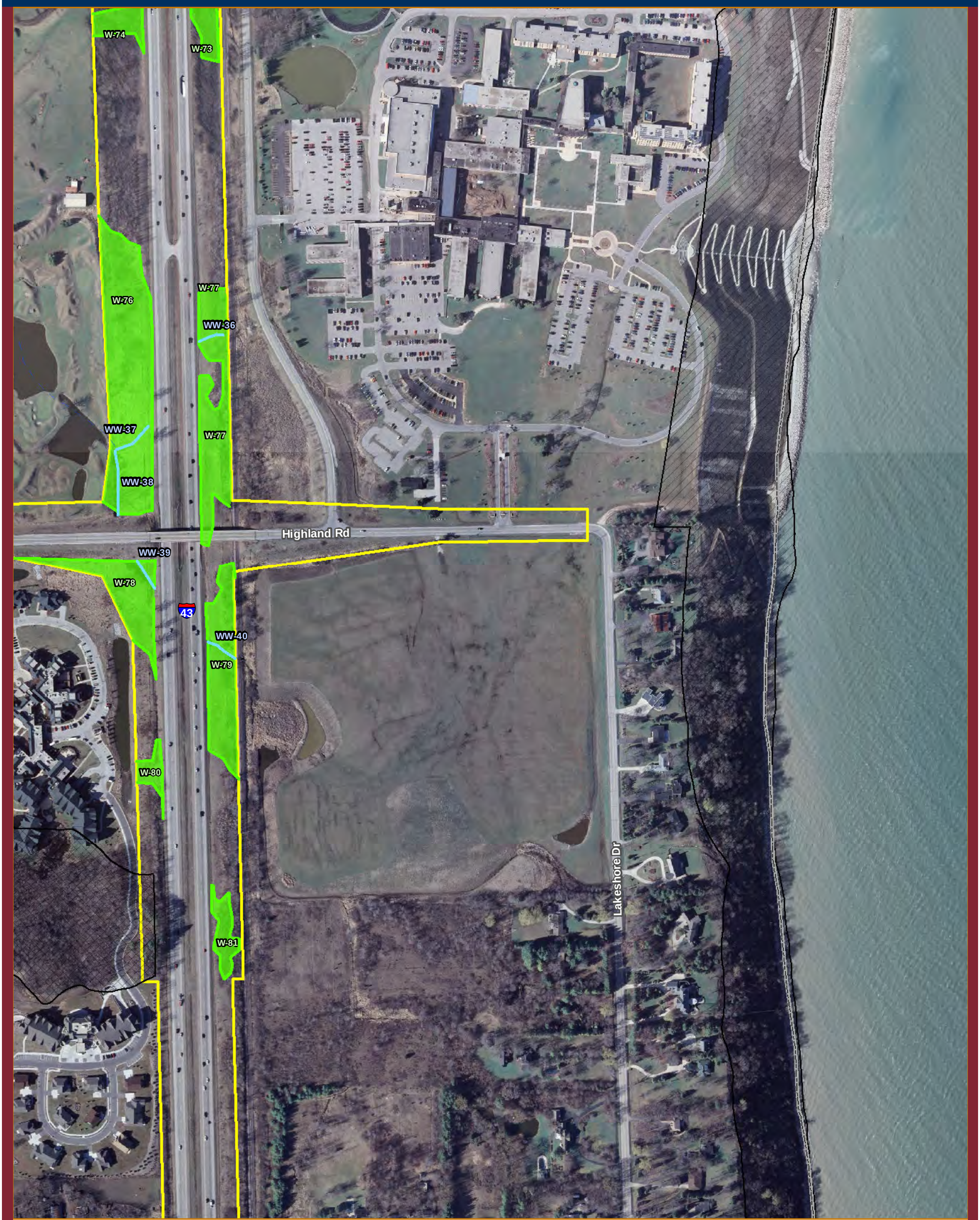

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Ozaukee and
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Project Information

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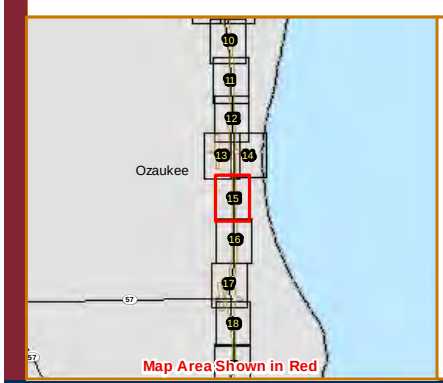

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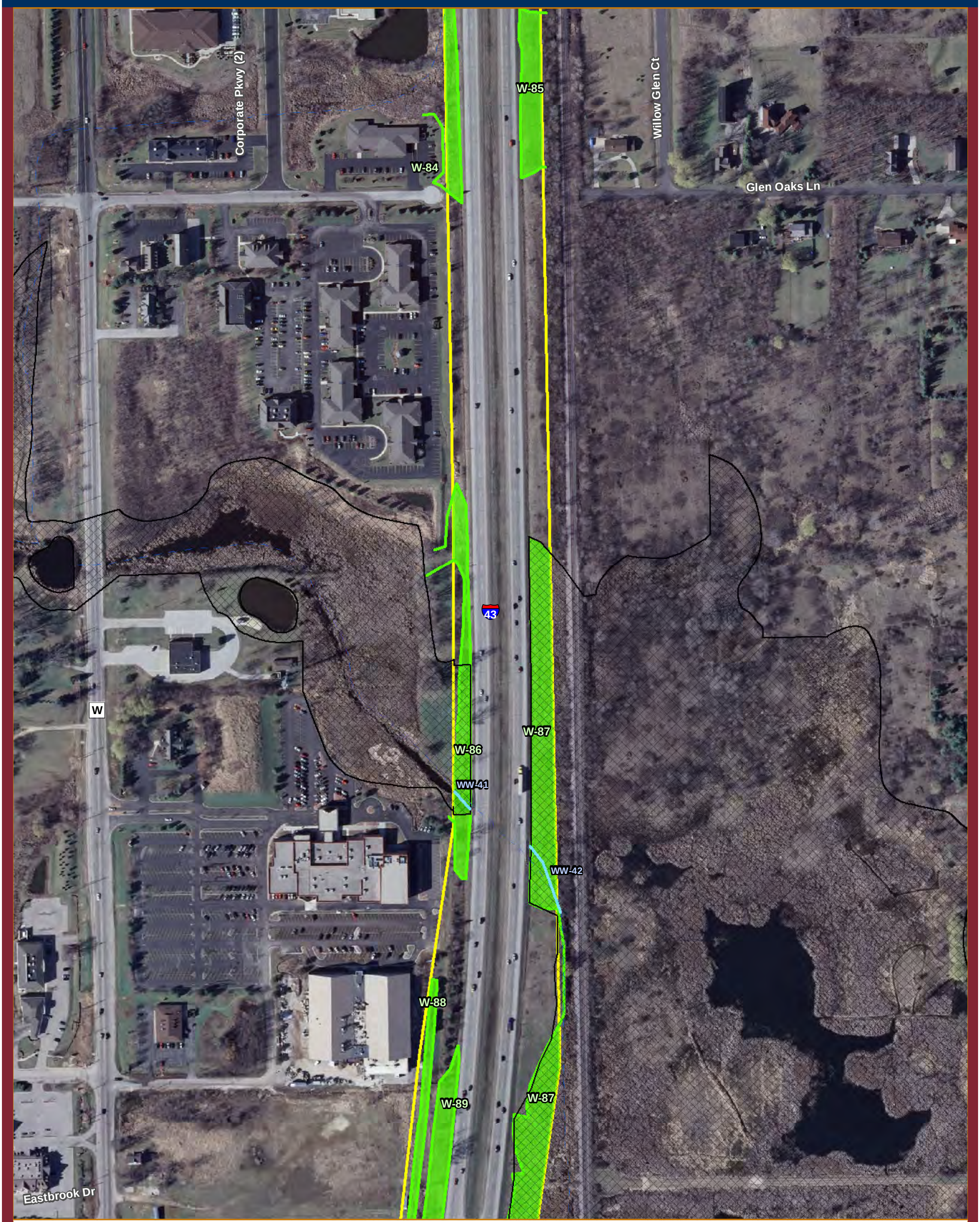

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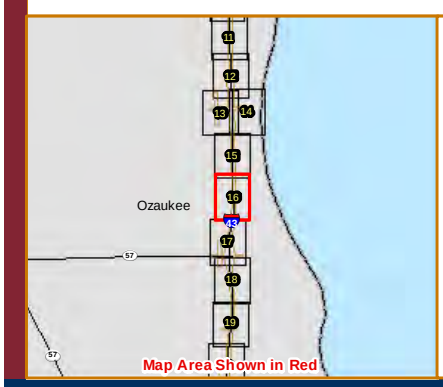

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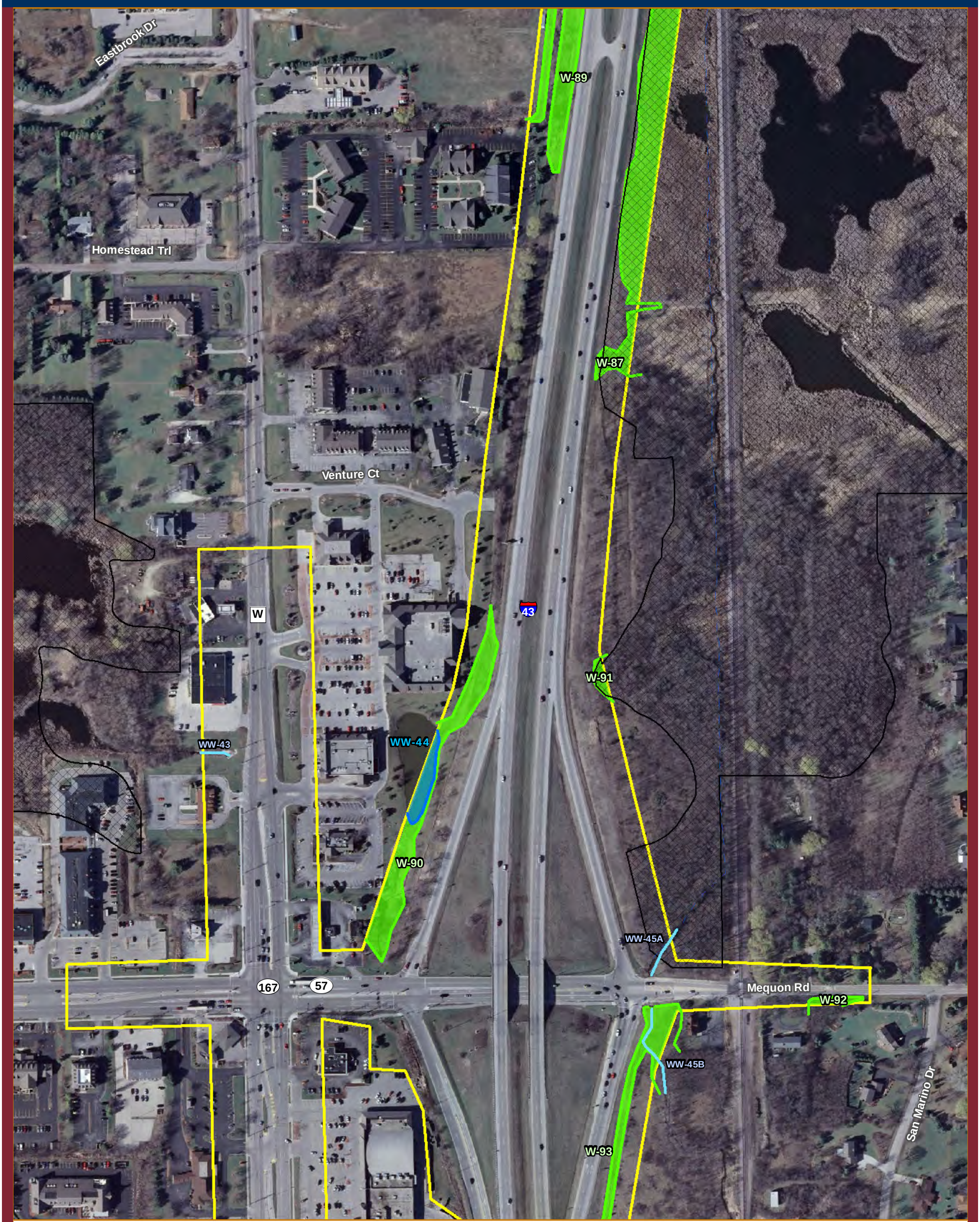

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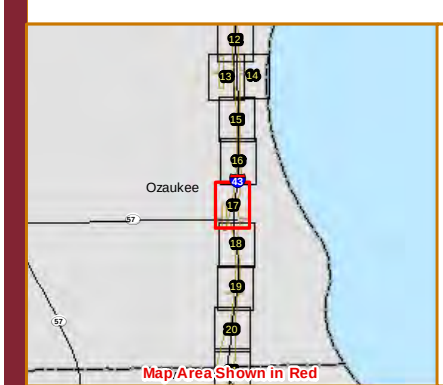

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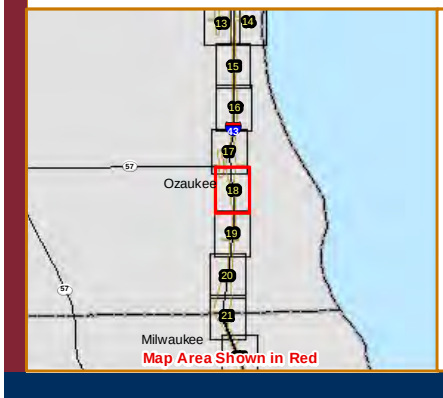

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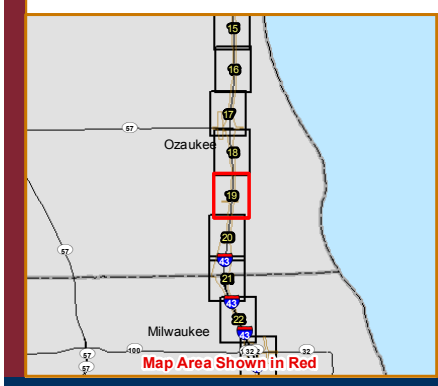
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



Location

Ozaukee and
Milwaukee Counties

Project Information

Project Number: 193701774

Last Modified: June 25, 2013

0 100 200
Feet

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Prepared by	ACS	20130625
Peer Review by	CP	20130625
Final Review by	EP	20130625

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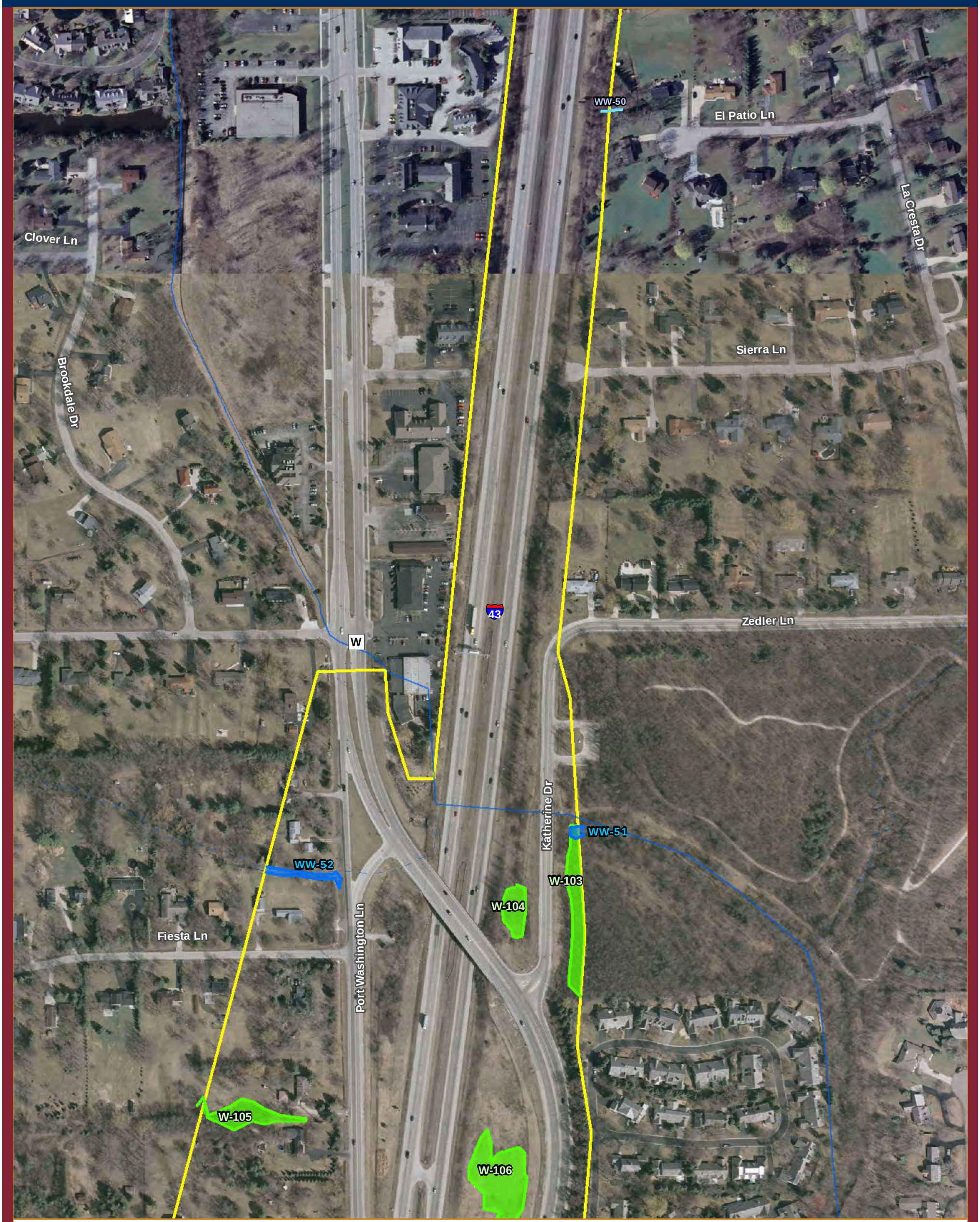
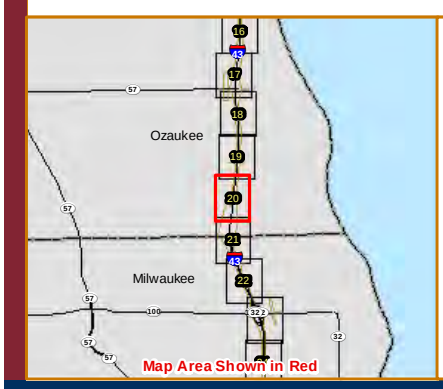


Figure 4. Preliminary Field Delineated Features
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



Location

Ozaukee and
Milwaukee Counties

Project Information

Project Number: 193701774

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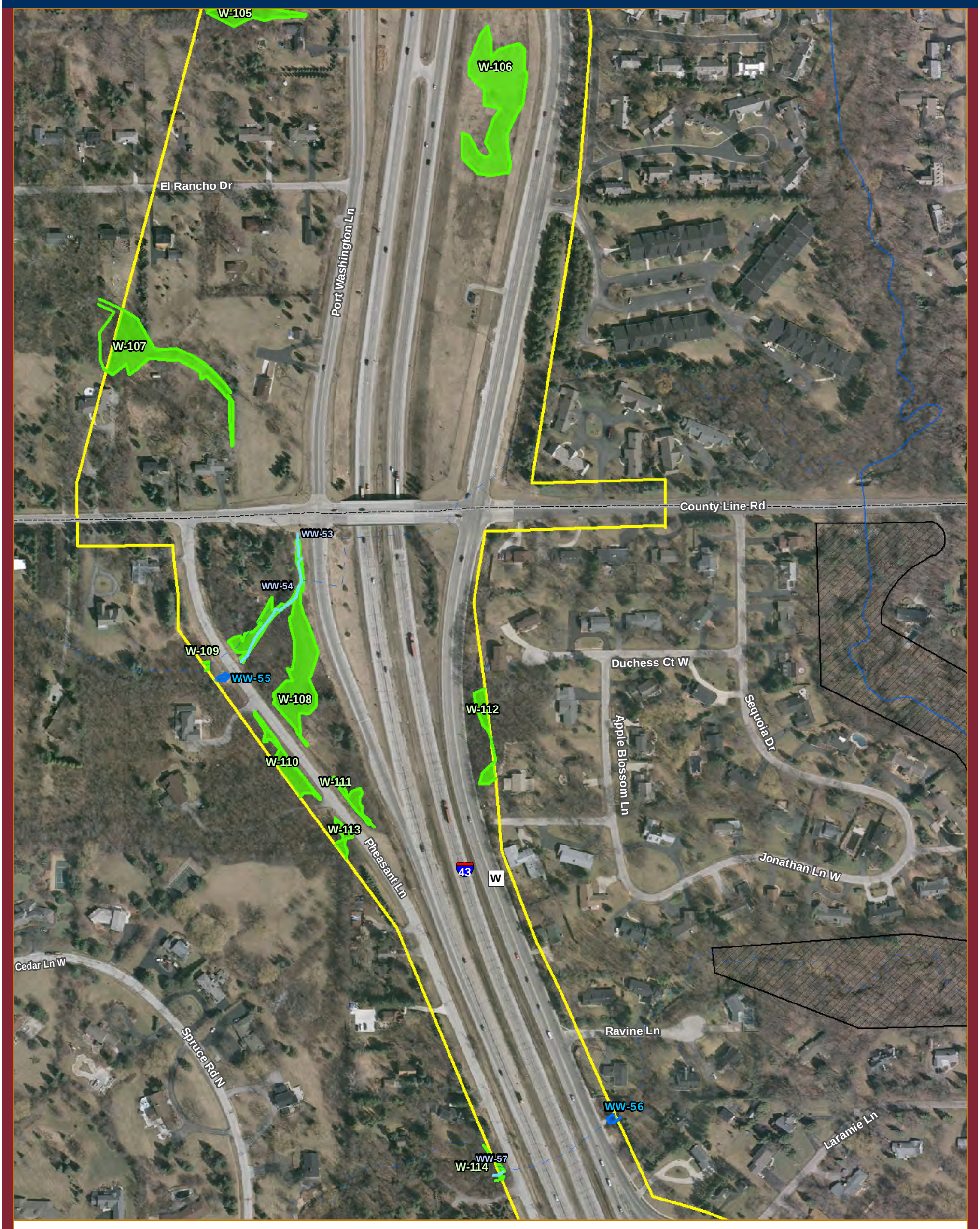

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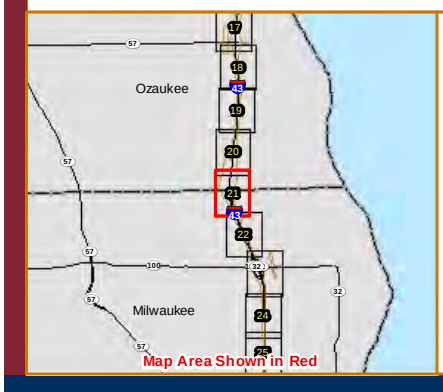

Location

Ozaukee and
Milwaukee Counties

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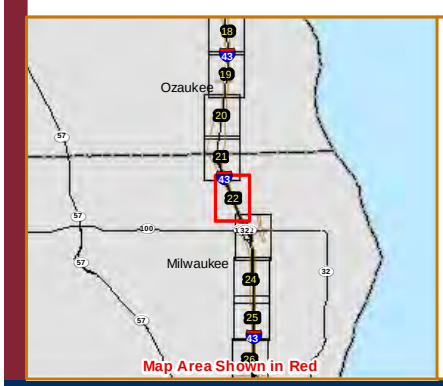
Figure 4. Preliminary Field Delineated Features
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



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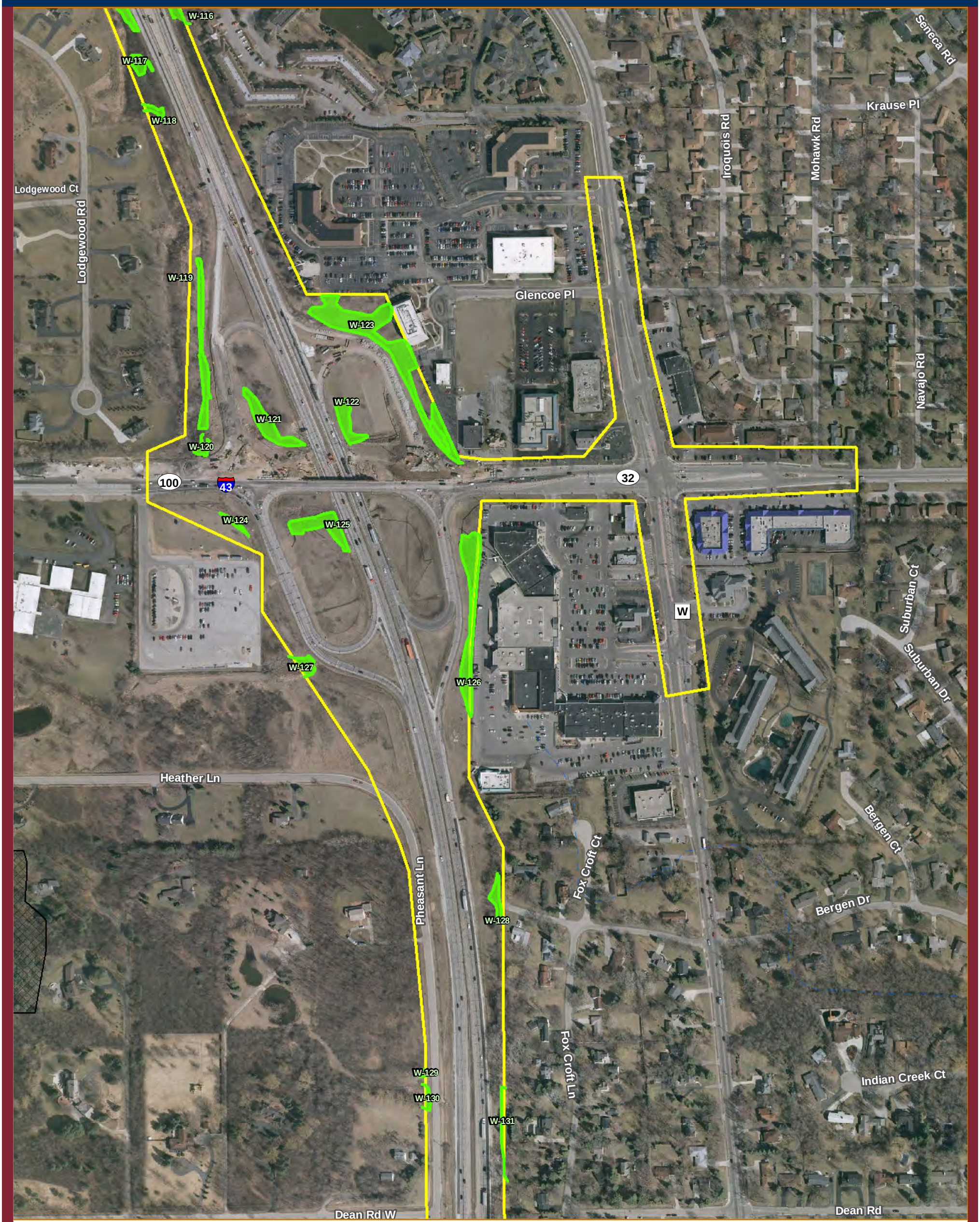

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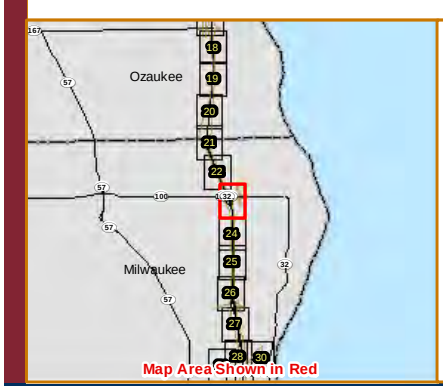

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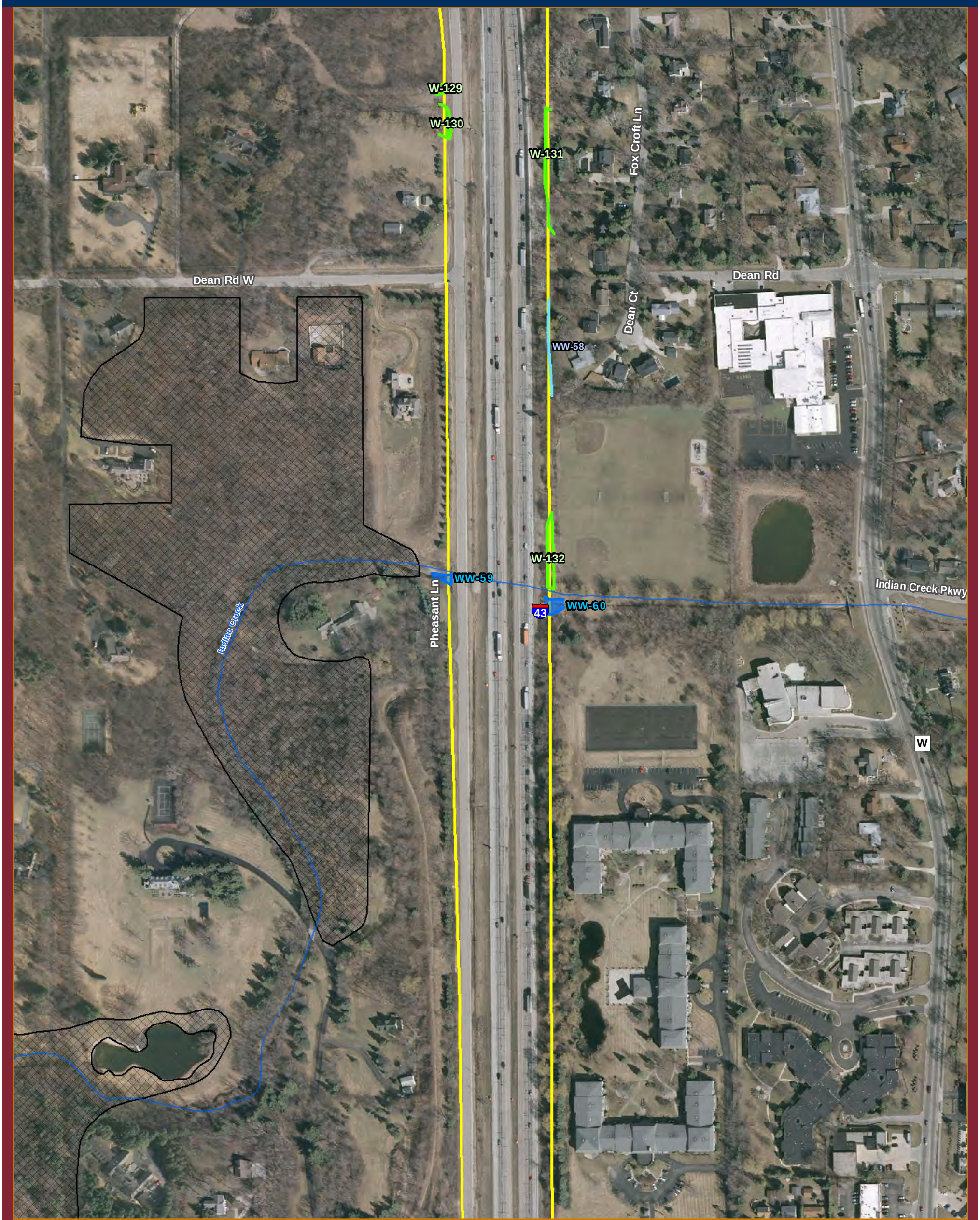

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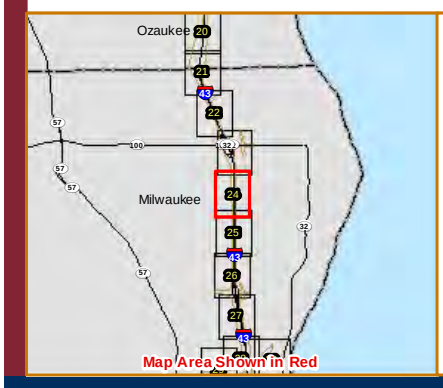

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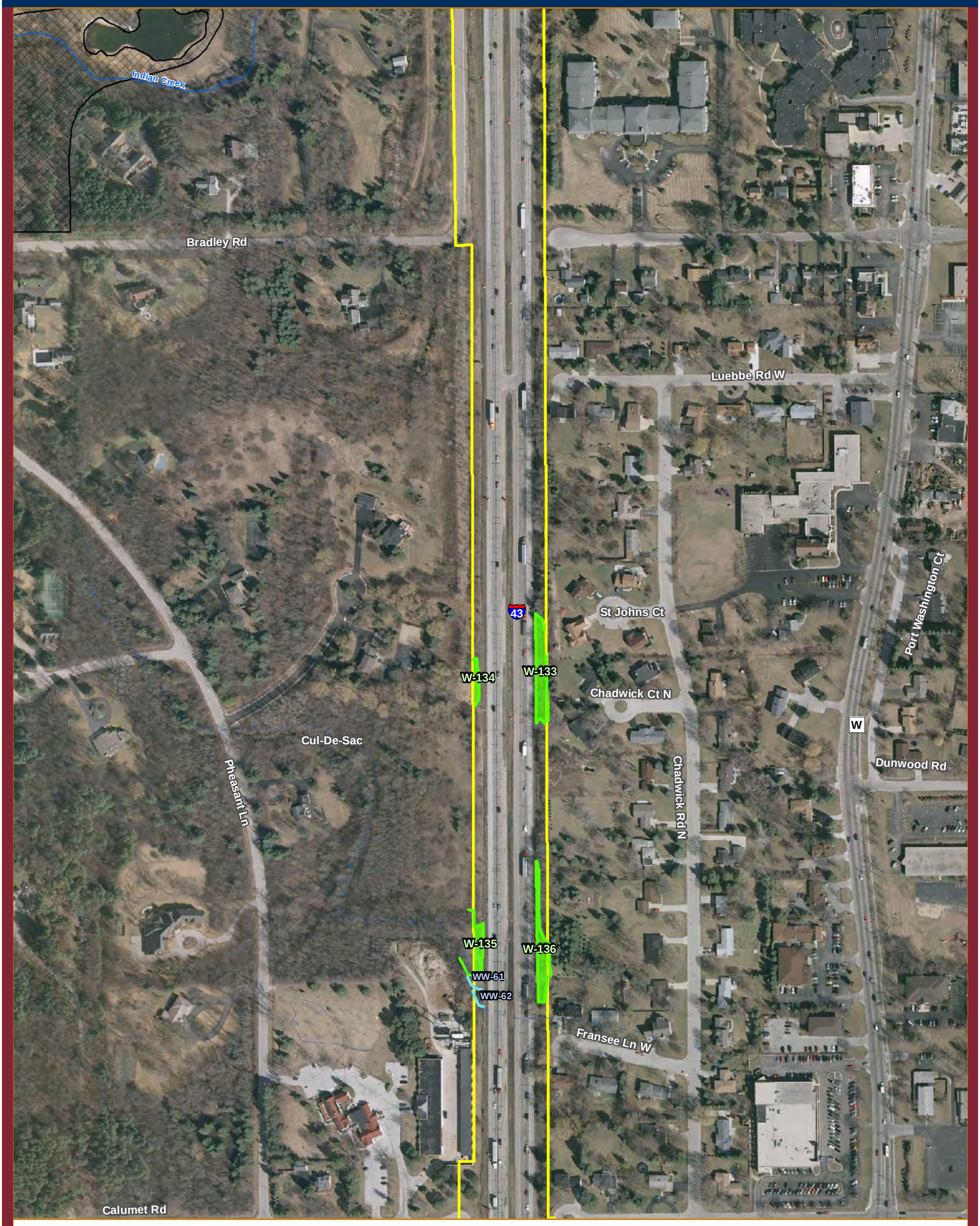

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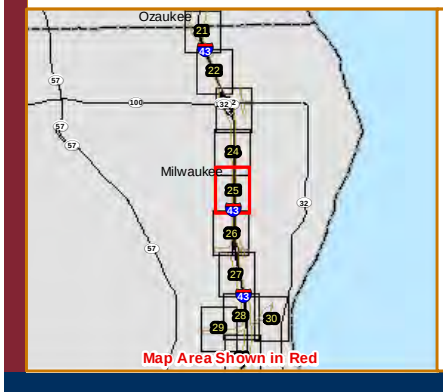

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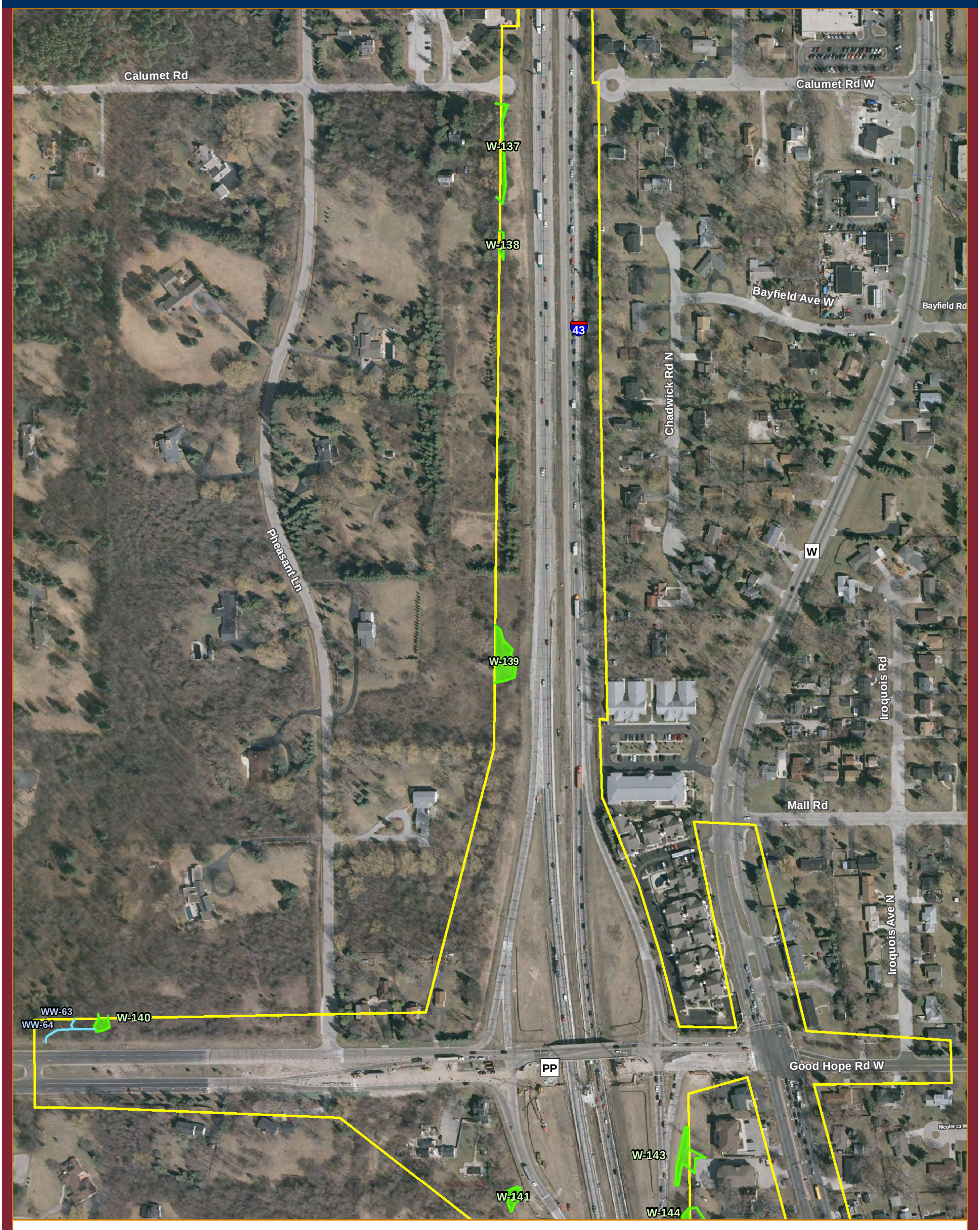

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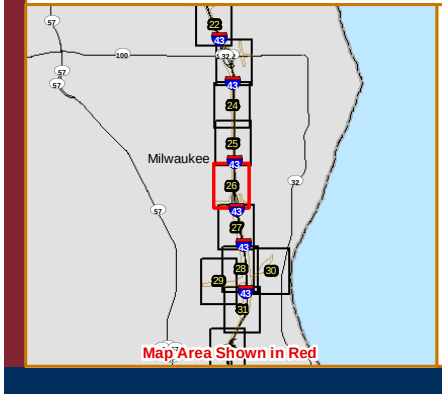

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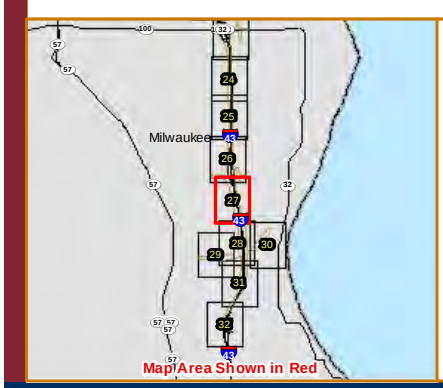

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SEWRPC Environmental Corridors

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Data Sources include: USGS, WIDNR, ESRI, SEWRPC
Imagery: 2010 WROC

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	Initials	Date
Prepared by	ACS	20120923
Peer Review by	CP	20120923
Final Review by	EP	20120923

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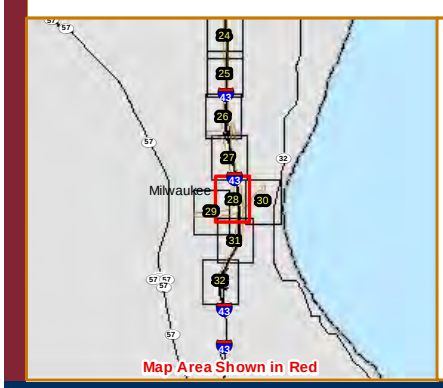
Figure 4. Preliminary Field Delineated Features
Interstate 43 Preliminary Mapping (Milwaukee - Ozaukee)



Location

Ozaukee and
Milwaukee Counties

Project Information

Project Number: 193701774

Last Modified: September 23, 2012

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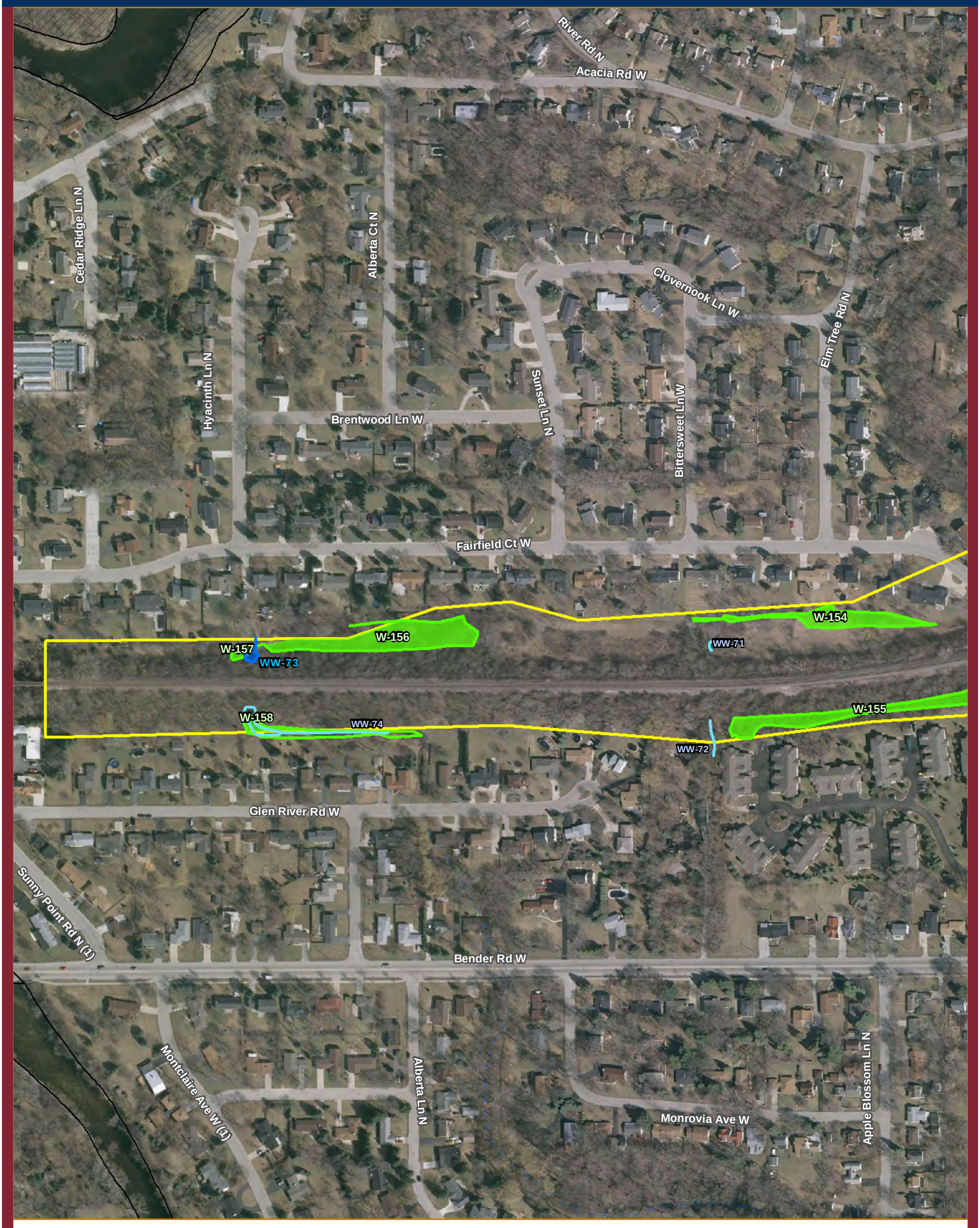

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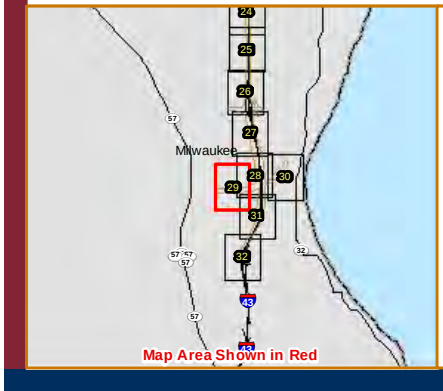

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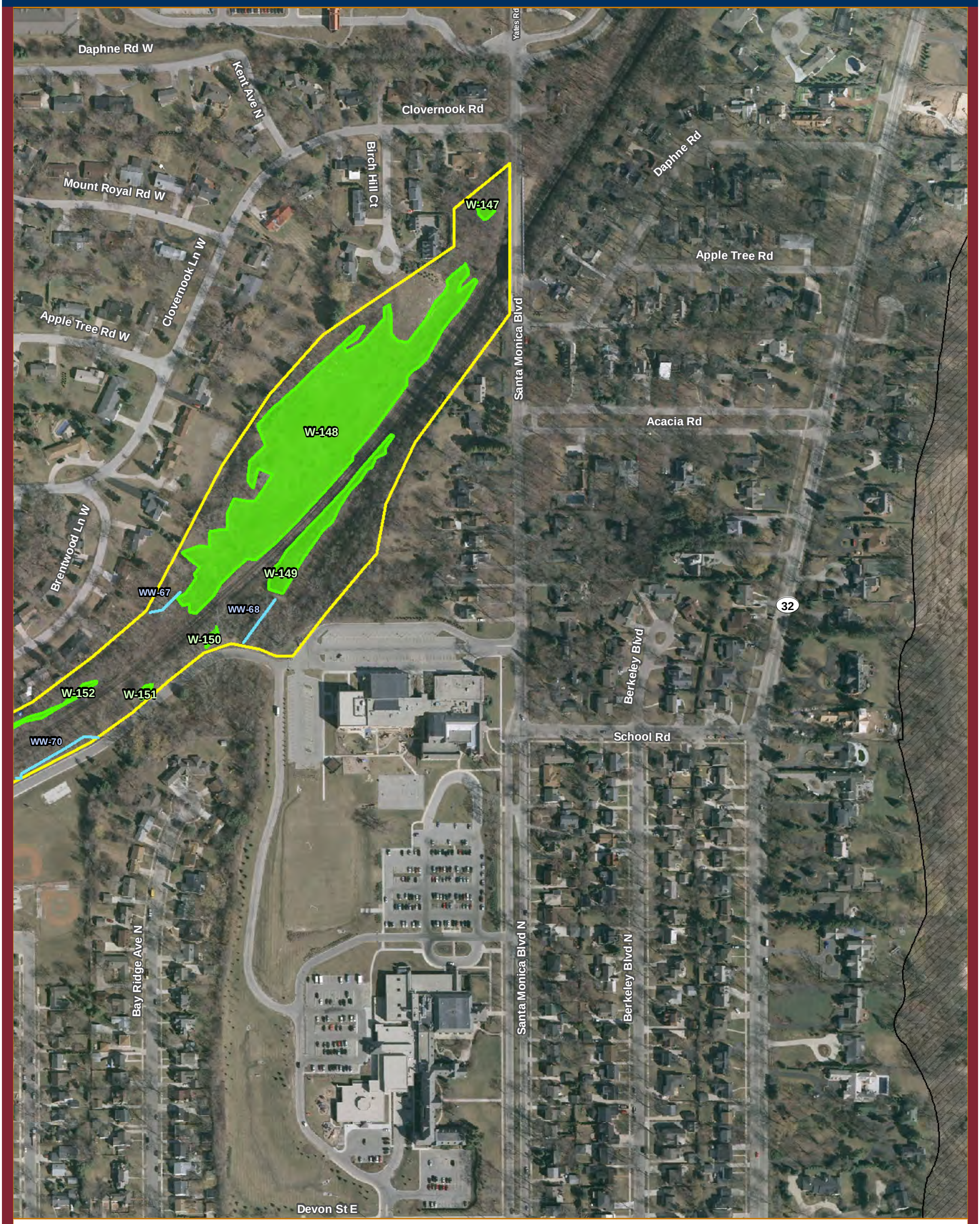

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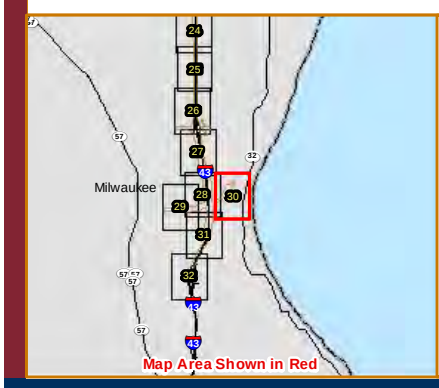

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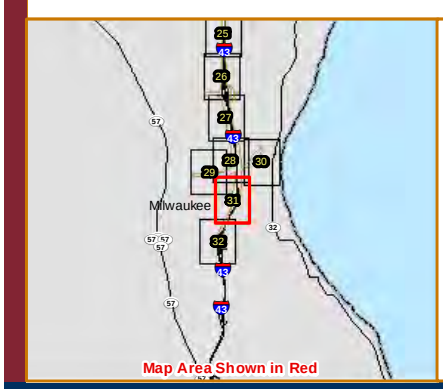

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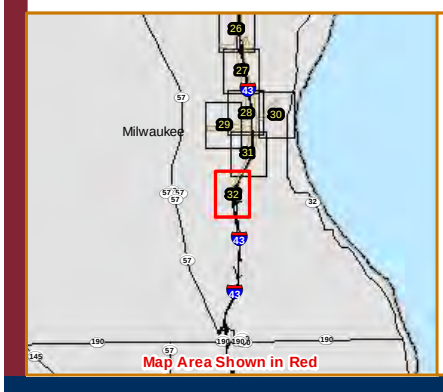

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