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6.0 PROJECT MAPPING

6.1 Site Existing Conditions

6.1.1 Site Location and Vicinity

As shown on Exhibit 1, the site is approximately 40 acres in size and is located south of West Fifth Street, east of the U.S. Route 33/36 interchange, north of the Maclvor Woods nature preserve and west of Damascus Road in the City of Marysville, Union County, Ohio. As shown on Exhibits 1 and 2, major surrounding land uses within one mile of the site include municipal parks and open space, ponds, medium- to high-intensity residential and commercial development, transportation corridors, and agricultural land.

6.1.2 Topographic Features

As shown on Exhibit 3, the site is mapped between the elevations of 1,000 feet and 1,030 feet (National Geodetic Vertical Datum) according to the USGS 7.5' Series *Milford Center, Ohio* quadrangle (USGS, 2013). Two drainageways are mapped on the site. One is an unnamed tributary (UNT) to Mill Creek, flowing south to north, and the other is an unnamed tributary to UNT Mill Creek, flowing west to east. One open water pond is located near in the northern portion of the site. No marsh symbols are mapped for the site.

6.1.3 Mapped Soils

A hydric soil is a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation (USACE, 1987). As shown on the *Web Soil Survey* for Union County, Ohio (Exhibit 4) (USDA-NRCS, 2013) and listed on the National Hydric Soils List (USDA-NRCS, 2014), none of the soils on site are listed as a hydric soil. One drainageway and one open water pond are mapped for the site. No marsh features are mapped on the site.

6.1.4 Hydrologic Conditions

As shown on Exhibit 5, the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) was reviewed for the site (FEMA, 2008). The entirety of the site lies within Zone X (unshaded), which are areas mapped outside the 500-year floodplain.

As shown on Exhibit 6, the United States Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI) Wetland Mapper was reviewed for the site (USFWS, 2009). One Palustrine, Unconsolidated Bottom, Intermittently Exposed, Diked/Impounded (PUBGh) feature was mapped in the northern portion of the site. This feature corresponds to the large pond on the site.

6.1.5 Surface Water Resources

Exhibit 7 shows the location of identified surface water features on the 40-acre site, overlaid on a scaled 2013 aerial photograph. As shown on Exhibit 7, the site includes three streams and one 4.1-acre pond.



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6.2 Alternatives Analysis Mapping

Exhibits 8, 9 and 10 show the Preferred Alternative, Minimal Degradation Alternative and Non-Degradation Alternative layouts, respectively. The alternative maps are overlaid on an aerial photograph of the project site and all water resource boundaries are identified.

Exhibits 11 and 12 show the proposed retention basin to be located on the Kroger property, along with associated grading and planting details.

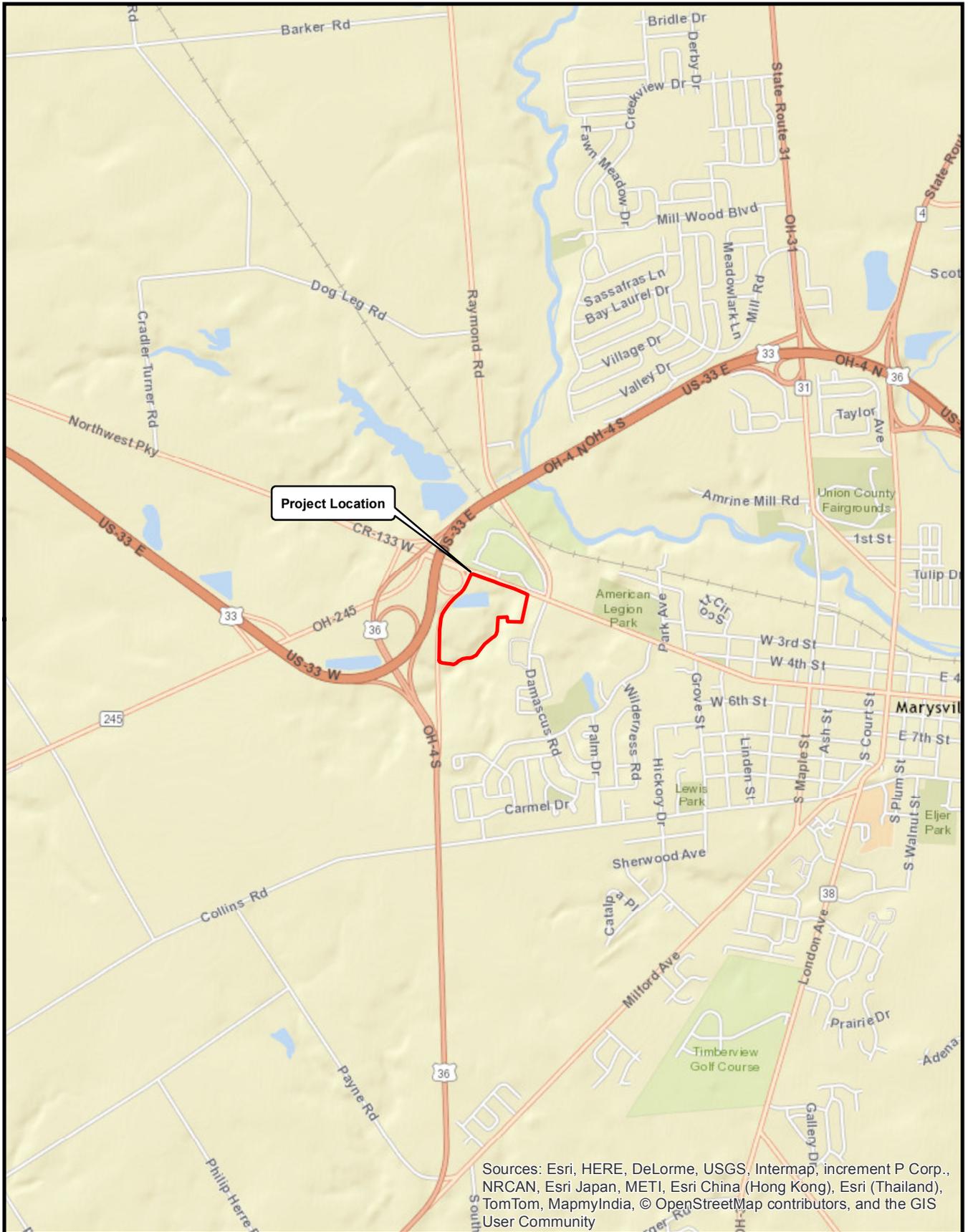


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ATTACHMENT 6

EXHIBITS

Path: J:\20141168\GIS\Exhibit 1 - Location Map.mxd



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

CITY OF MARYSVILLE, UNION COUNTY, OHIO

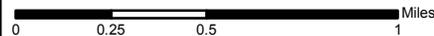
**The Kroger Co.
N-549 Store Development
Location Map
Exhibit 1**

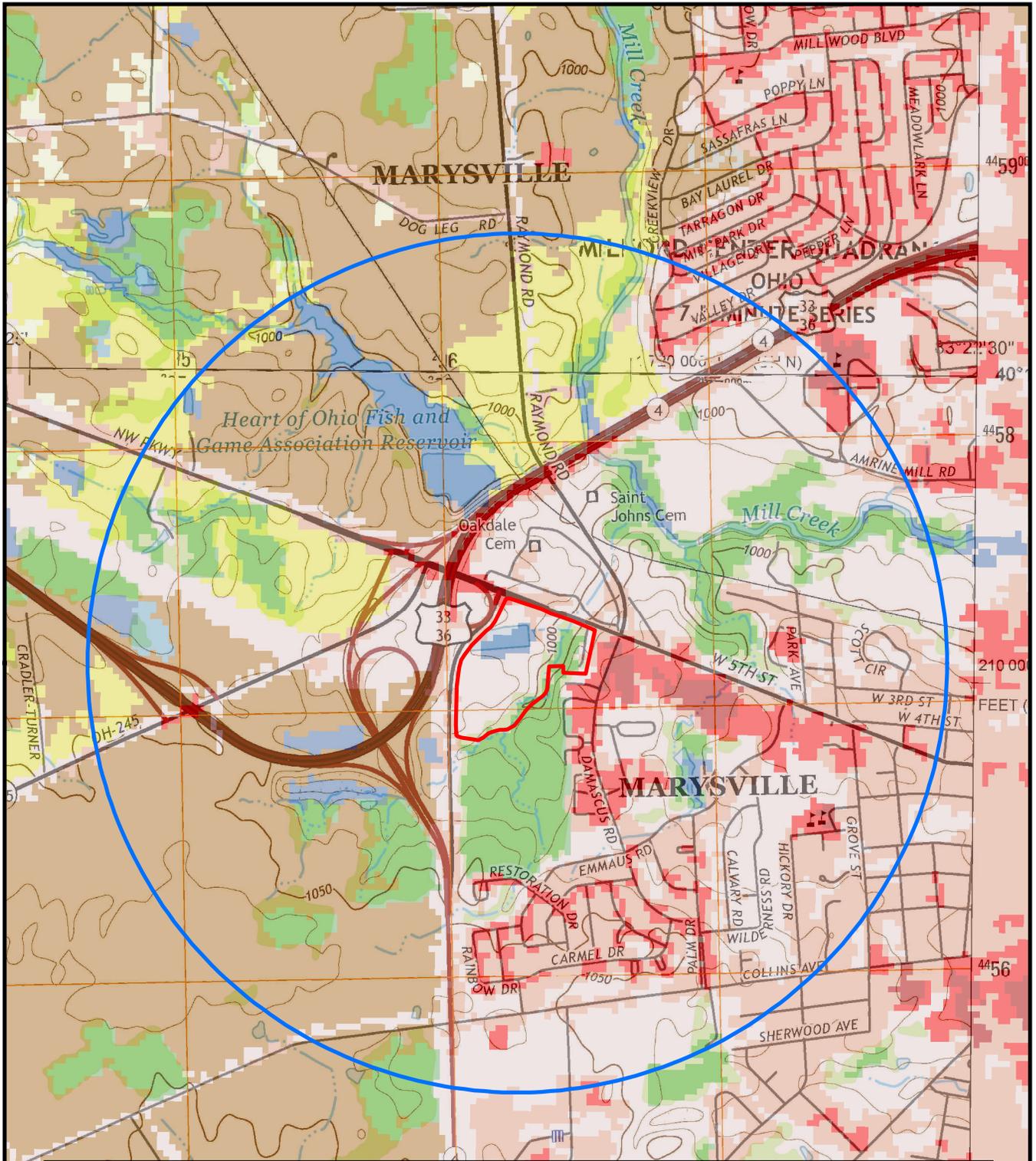


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SCALE: 1" = 1/2 Mile





Legend

Site Location	National Land Cover Database (NLCD)	Developed, High Intensity	Emergent Herbaceous Wetlands	Mixed Forest
1-Mile Radius	Barren Land	Developed, Low Intensity	Evergreen Forest	Open Water
	Cultivated Crops	Developed, Medium Intensity	Hay/Pasture	Shrub/Scrub
	Deciduous Forest	Developed, Open Space	Herbaceous	Woody Wetlands

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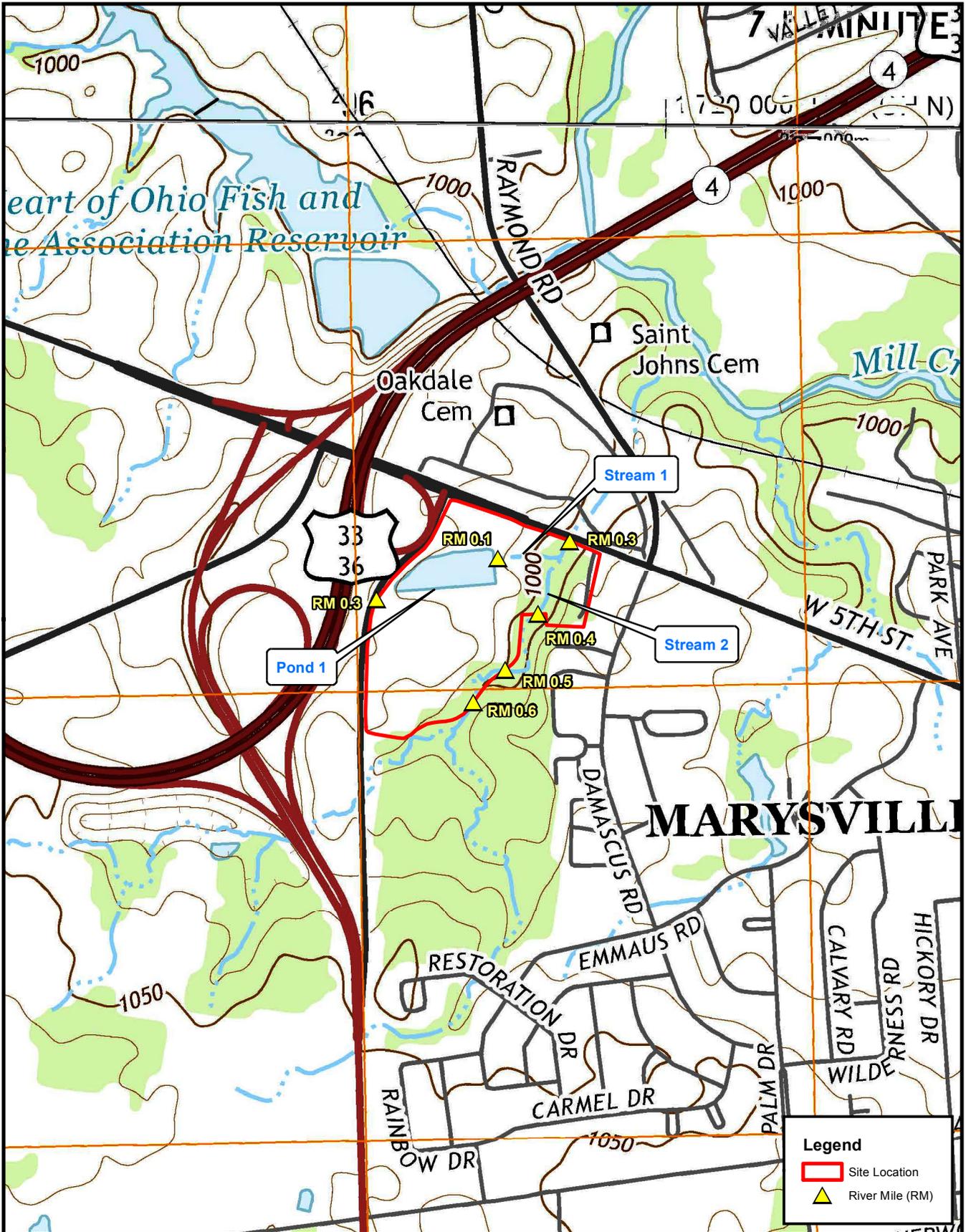
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The Kroger Co.
N-549 Store Development
Vicinity Map
Exhibit 2

SCALE: 1" = 1,800'

0 900 1,800 3,600 Feet

Source: USGS Milford Center Quad Map (Pub. 2013)
 National Land Cover Database (NLCD), 2001



Path: J:\20141168\GIS\Exhibit 3 - USGS Map .mxd



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The Kroger Co.
 N-549 Store Development
 USGS Topographic Map
 Exhibit 3

SCALE: 1" = 1,000'



Source: USGS Milford Center Quad Map (Pub. 2013)
 & Peoria Quad Map (Pub. 2013)



Legend

- Site Location
- ▲ River Mile (RM)

Path: J:\20141168\GIS\Exhibit 4 - Soils Map.mxd



Legend

- Site Location
- Soils
- Streams

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The Kroger Co.
N-549 Store Development
Soil Survey of Union County
Exhibit 4

SCALE: 1" = 400'

0 200 400 800 Feet

Source: Soils - NRCS, 2013; Aerial - OSIP, 2013;
 Streams - Union County, 2013



Legend

- Site Location
- Streams
- Zone X (unshaded): Areas outside the 500 year floodplain

Path: J:\20141168\GIS\Exhibit 5 - FIRM Map.mxd

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CITY OF MARYSVILLE, UNION COUNTY, OHIO

**The Kroger Co.
 N-549 Store Development
 Flood Insurance Rate Map
 Exhibit 5**

SCALE: 1" = 400'

0 200 400 800 Feet

Source: Floodplain - FEMA; Aerial - OSIP, 2013
 Streams - Union County, 2013



Path: J:\20141168\GIS\Exhibit 6 - NWI Map.mxd

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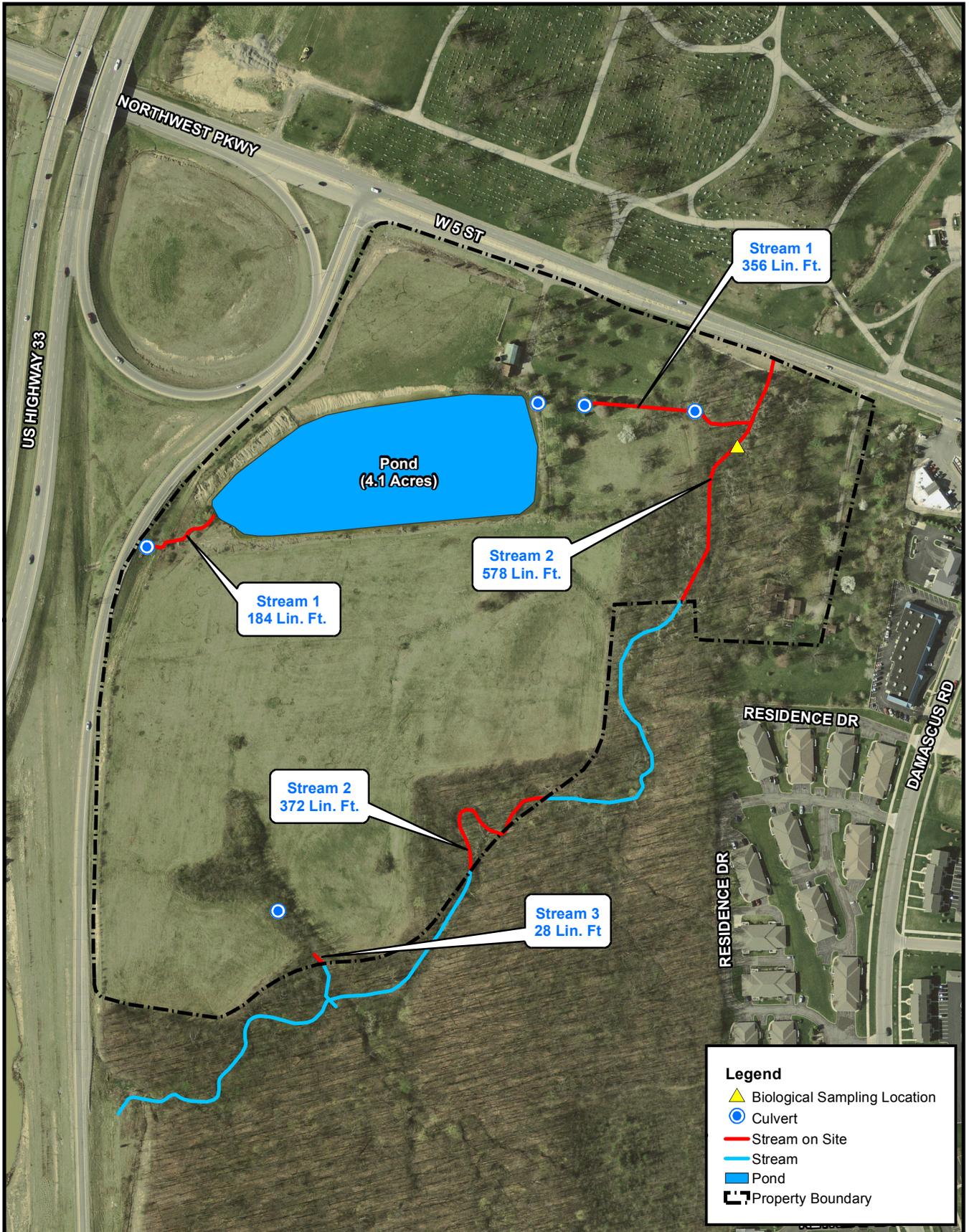
The Kroger Co.
N-549 Store Development
National Wetland Inventory
Exhibit 6

SCALE: 1" = 400'

0 200 400 800 Feet

Source: National Wetland Inventory (NWI) - FWS, 2012;
 Aerial - OSIP, 2013

Path: J:\20141168\GIS\Exhibit 7 - Surface Water Resources Map.mxd



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CITY OF MARYSVILLE, UNION COUNTY, OHIO
The Kroger Co.
N-549 Store Development
Surface Water Resources Map
Exhibit 7

SCALE: 1" = 300'

0 150 300 600 Feet

Legend

- ▲ Biological Sampling Location
- Culvert
- Stream on Site
- Stream
- Pond
- ▬ Property Boundary

Source: Aerial - OSIP, 2013