



ROUTING & SITING > Public outreach

We believe it is beneficial to solicit input from individuals who may be impacted by transmission system improvements and additions. As a natural extension of the involvement of transmission system customers in the planning process, we also involve the broader public in our planning process.

Public examination and discussion of transmission plans in advance of the commencement of work enhances awareness of the needs for transmission system improvements, helps eliminate surprises and can improve projects by involving the perspectives of those most familiar with impacted areas. Even for projects subject to public discussion and review as part of a state's formal regulatory process, opportunities for the public to help shape decisions prior to the official start of the regulatory process can be helpful.

By increasing the level of public understanding of the need for a project and by vetting specific solutions to be proposed, time spent in early discussions also can save project time overall.

Our public outreach efforts may involve sharing and exchanging information about specific planned transmission line work with those who may be impacted. Depending on the work to be done, potentially impacted parties may include landowners or other community residents in the vicinity of an existing or a proposed new transmission line, local public officials, utility regulators and natural resource agencies, environmental or conservation groups, customers and other interested members of the public.

Our public outreach efforts with various stakeholders can include a variety of interactions such as one-on-one or small group meetings, public open houses, newsletters and other communication activities. The overall goal is to maintain communication with those who may benefit or be impacted by transmission system plans – with respect to needs, possible alternative solutions, or the tailoring of specific project initiatives as they proceed through the planning, siting and regulatory approval stages leading to construction.

ROUTING & SITING > Siting process

When transmission infrastructure improvements or additions require new right-of-way, the job of siting the facilities is a sensitive one. We follow a careful and deliberate process that provides guidance for identifying and analyzing potential options for siting and routing of transmission facilities. Through input received from agencies, the public and other stakeholders, siting criteria are developed that are applicable and appropriate for the location and issues associated with a particular project.

Legislation passed in 2003 (Wisconsin Act 89) outlined priorities for selecting locations for new transmission lines. As outlined in Act 89, Section 1.12 (6), we and the regulatory agencies are required to *“evaluate, to the greatest extent feasible consistent with economic and engineering considerations, reliability of the electric system and protection of the environment, the following corridors in the following order of priority:”*

1. Primary opportunities
 - Existing utility corridors, such as those for transmission lines, distributions lines and pipelines
2. Secondary opportunities
 - Highway corridors
 - Railroad corridors
3. Tertiary opportunities
 - Recreational trails where rights-of-way, environmental considerations and engineering/cost feasibility warrant
4. New corridors
 - Establish new corridors using section lines and/or property boundaries

A copy of Act 89 is available at the state legislature’s Web site:
<http://www.legis.state.wi.us/2003/data/acts/03Act89.pdf>

ROUTING & SITING > New right-of-way

In addition, in siting and evaluating potential routes for transmission lines, consideration must be given to sensitive areas, which generally involve public or environmental issues. Information about sensitive areas can be found in Table RS-2.

Figure RS-1 provides an overview of our siting process for identifying new electric transmission corridors and indicates the opportunities for public input.

When new transmission line projects involve new rights-of-way, we gather environmental screening information. The environmental assessments provided in this section are high-level and not nearly the level of investigation that will accompany a permit application to construct transmission facilities.

Table RS-1 lists the new transmission lines requiring new right-of-way and whether high-level environmental screening information is provided in this report or can be found in application materials already filed with the Public Service Commission.

Table RS-2 provides environmental screening information for the lines listed in Table RS-1. Exhibits RS-1 through RS-34 identify the approximate end-points and study areas for each project for which high-level environmental screening information is provided.

Table RS-1
Identified Needs and Transmission Lines Requiring New Right-of-Way

| Identified need | Planned, Proposed or Provisional solution | Approx. line mileage | | Projected in-service year | Planning zone | Environmental screening provided? | Comments and/or corresponding exhibit number |
|---|---|----------------------|---------|---------------------------|---------------|-----------------------------------|--|
| | | Total | New ROW | | | | |
| Reduce service limitations, relieve overloads or low voltages under contingency, improve transfer capability & Weston stability | Construct Gardner Park-Stone Lake 345-kV line | 140 | 73.4 | 2006 | 1 | No | Environmental information included with filing at PSCW - CPCN approved; Exhibit RS-1 |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild from Nordic to Randville substation (5 miles) of single circuit 69-kV line to double-circuit 69 kV | 5 | 1 | 2006 | 2 | Yes | Exhibit RS-19 |
| T-D interconnection request, relieve overloads or low voltages under contingency | Construct new 69-kV line from Columbia to Rio to feed the proposed Wyocena substation | 8.16 | 8.16 | 2006 | 3 | Yes | Exhibit RS-4 |
| T-D interconnection request | Construct Venus-Metonga 115-kV line | 12.5 | 11.5 | 2007 | 1 | Yes | Exhibit RS-31 |
| T-D interconnection request | Construct Brandon-Fairwater 69-kV line | 4 | 4 | 2007 | 1 | Yes | Exhibit RS-2 |
| T-D interconnection request | Construct new line from West Darien to Southwest Delavan at 138 kV, operate at 69 kV | 3 | 3 | 2007 | 3 | Yes | Exhibit RS-32 |
| Relieve overloads or low voltages under contingency, T-D interconnection request | Construct a Jefferson-Lake Mills-Stony Brook 138-kV line | 12 | 12 | 2007 | 3 | Yes | Exhibit RS-15 |
| Relieve overloads or low voltages under contingency, accommodate new generation | Construct Sprecher-Femrite 138-kV line | 2 | 2 | 2007 | 3 | Yes | Detailed environmental information included with filing at PSCW ; Exhibit RS-28 |
| T-D interconnection request | Construct double circuit 138-kV line from Forest Junction/Howards Grove/Charter Steel to Plymouth #4 | 1.25 | 1.25 | 2007 | 4 | Yes | Exhibit RS-13 |
| T-D interconnection request | Construct a 69-kV line from SW Ripon to the Ripon-Metomen 69-kV line | 1.5 | 1.5 | 2008 | 1 | Yes | Exhibit RS-29 |
| Reduce service limitations, relieve overloads or low voltages under contingency, improve transfer capability & Weston stability | Construct Stone Lake-Arrowhead 345-kV line | 70 | 36.6 | 2008 | 1 | No | Environmental information included with filing at PSCW - CPCN approved; Exhibit RS-1 |
| T-D interconnection request | Construct new line from Southwest Delavan to Delavan or Bristol at 138 kV, operate at 69 kV | 3.5 | 3.5 | 2008 | 3 | Yes | Detailed environmental information included with filing at PSCW ; Exhibit RS-24 |
| Relieve overloads or low voltages under contingency | Construct a Rubicon-Hustisford 138-kV line | 5 | 5 | 2008 | 3 | Yes | Exhibit RS-25 |
| Relieve overloads or low voltages under contingency | Construct a new 138-kV line from North Madison to Waunakee | 5 | 5 | 2008 | 3 | Yes | Exhibit RS-20 |
| Relieve overloads or low voltages under contingency, transfer capability | Construct Cranberry-Conover 115-kV line | 14 | 14 | 2008 | 1 & 2 | Yes | Exhibit RS-6 |
| Relieve overloads or low voltages under contingency, T-D interconnection request | Construct new 138-kV line from South Lake Geneva to White River | 3 | 3 | 2009 | 3 | Yes | Exhibit RS-34 |
| Relieve overloads or low voltages under contingency | Construct new Montrose-Sun Valley-Oak Ridge 138-kV line | 9 | 3 | 2009 | 3 | Yes | Exhibit RS-18 |
| Relieve overloads or low voltages under contingency, reduce service limitations | String a new 138-kV line from Clintonville-Werner West primarily on Morgan-Werner West 345-kV line structures | 16 | 2 | 2009 | 4 | Yes | Detailed environmental information included with filing at PSCW ; Exhibit RS-17 |

Table RS-1
Identified Needs and Transmission Lines Requiring New Right-of-Way

| Identified need | Planned, Proposed or Provisional solution | Approx. line mileage | | Projected in-service year | Planning zone | Environmental screening provided? | Comments and/or corresponding exhibit number |
|---|---|----------------------|---------|---------------------------|---------------|-----------------------------------|--|
| | | Total | New ROW | | | | |
| Relieve overloads or low voltages under contingency, reduce service limitations | Construct Morgan-Werner West 345-kV line | 47 | 47 | 2009 | 4 | Yes | Detailed environmental information included with filing at PSCW; Exhibit RS-17 |
| Relieve overloads or low voltages under contingency | Reroute Paddock to Shirland Avenue 69-kV line into and out of Northwest Beloit | 1 | 0.5 | 2010 | 3 | Yes | Exhibit RS-22 |
| Relieve overloads or low voltages under contingency | Loop the Femrite to Royster 69-kV line into AGA Gas | 0.3 | 0.3 | 2010 | 3 | Yes | Exhibit RS-11 |
| Relieve overloads or low voltages under contingency, accommodate new generation | Construct a Concord-Bark River 345-kV line | 19 | 10 | 2010 | 3 & 5 | Yes | Exhibit RS-5 |
| Relieve overloads or low voltages under contingency | Construct Evansville-Brooklyn 69-kV line | 8 | 8 | 2011 | 3 | Yes | Exhibit RS-10 |
| Relieve overloads or low voltages under contingency | Construct 345-kV line from Rockdale to West Middleton | 35 | 35 | 2011 | 3 | Yes | Exhibit RS-23 |
| Relieve overloads or low voltages under contingency | Loop the Deforest to Token Creek 69-kV line into the Yahara River substation | 1 | 1 | 2011 | 3 | Yes | Exhibit RS-7 |
| Relieve overloads or low voltages under contingency | Construct a Lake Delton-Birchwood 138-kV line | 5 | 5 | 2011 | 3 | Yes | Exhibit RS-16 |
| Relieve overloads or low voltages under contingency | Construct a second Dunn Road-Egg Harbor 69-kV line | 12.66 | 12.66 | 2011 | 4 | Yes | Exhibit RS-8 |
| Relieve overloads or low voltages under contingency | Construct 69-kV line from Eden through Muscoda to Richland Center | 35 | 35 | 2012 | 3 | Yes | Exhibit RS-9 |
| Access initiative | Salem-Spring Green-West Middleton 345-kV proxy for Large Access Project, includes rebuild Nelson Dewey-Spring Green-West Middleton 138/69 kV to double-circuit 345/138 kV | 114 | 114 | 2013 | 3 | Yes | Exhibit RS-26 |
| Relieve overloads or low voltages under contingency | Rebuild/convert Chalk Hills-Chandler 69 kV to 138 kV operation | 54 | 14 | 2013 | 2 | Yes | Exhibit RS-3 |
| T-D interconnection request | Construct new 69-kV line from South Lake Geneva to Lake Shore substation | 3.2 | 3.2 | 2013 | 3 | Yes | Exhibit RS-27 |
| Relieve overloads or low voltages under contingency | Construct new 138-kV line from Twin Lakes to Spring Valley | 9 | 9 | 2013 | 3 | Yes | Exhibit RS-30 |
| Relieve overloads or low voltages under contingency | Construct a Horicon-East Beaver Dam 138-kV line | 9 | 9 | 2013 | 3 | Yes | Exhibit RS-14 |
| Accommodate new generation | Construct an Oak Creek-Hale (Brookdale) 345-kV line installing 4 mi. new structures, converting 16.2 mi. of non-operative 230 kV and 5 mi. 138 kV | 25.2 | 4 | 2013 | 5 | Yes | Exhibit RS-21 |
| Relieve overloads or low voltages under contingency, access initiative | Construct West Middleton-North Madison 345 kV line | 20 | 46.7 | 2014 | 3 | Yes | Exhibit RS-33 |
| Relieve overloads or low voltages under contingency, access initiative | Construct Fitzgerald-Omro Industrial 69-kV line | 7 | 7 | 2015 | 1 | Yes | Exhibit RS-12 |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Nordic-Randville 69-kV line rebuild | | Exhibit RS-19 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 5 with 1 mile of rerouting |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 40 |
| #2 | Corridor Sharing Opportunities | Existing town roads and railroad corridor offer the best opportunities for corridor sharing. |
| #3 | Public Lands | Copper Country State Forest |
| #4 | Sensitive Resources | None identified |
| #5 | Cultural Resources | None identified |
| | Miscellaneous | |

| Columbia-Rio 69-kV line | | Exhibit RS-4 |
|--------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 9 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 65 |
| #2 | Corridor Sharing Opportunities | State highways, railroads, and existing transmission line rights-of-way offer opportunities for corridor sharing. |
| #3 | Public Lands | Wyona County Park, Middle Branch Duck Creek, Duck Creek Campground, local parks associated with Duck Creek, Lake Columbia, Wyona Lake, Jennings Creek, and boat launches associated with area lakes are found in the screening area. |
| #4 | Sensitive Resources | Rock Run Oak Savanna State Natural Area, Jennings Creek State Wildlife Area, Rocky Run Creek State Fishery Area, Duck Creek, Wyona Lake, and Lake Columbia are located in the screening area. |
| #5 | Cultural Resources | The Cultural Map of Wisconsin does not identify any sites within the screening area, however there are several cemeteries known in the screening area. |
| | Miscellaneous | Several airfields and landing strips are found in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Venus-Metonga 115-kV line | | Exhibit RS-31 |
|----------------------------------|--|--|
| | General Description | New line - Interconnection with proposed Metonga distribution substation |
| | Length (miles) | approximately 10 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 69 |
| #2 | Corridor Sharing Opportunities | Highways 45, 8, and 32 are located in the screening area. Existing 115-kV transmission line in western 1/4 of screening area. Possible sharing with local electrical distribution lines and railroads. |
| #3 | Public Lands | Nicolet National Forest, Veterans Memorial Park, Little Rice wildlife area, Wolf River tower site, Statewide natural areas, statewide spring ponds, and scattered forestlands. |
| #4 | Sensitive Resources | Numerous lakes, headwaters of the Wolf River, streams, wetlands, forestlands, are located in the screening area. |
| #5 | Cultural Resources | Potawatomi Indian reservation and high potential for other historical and cultural resources in the screening area. Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

| Brandon-Fairwater 69-kV line | | Exhibit RS-2 |
|-------------------------------------|--------------------------------|--|
| | General Description | New line |
| | Length (miles) | 4 |
| #1 | Screening Area (Sq. mi.) | 17.78 |
| #2 | Corridor Sharing Opportunities | Existing road and railroad corridors offer the best corridor sharing opportunities. |
| #3 | Public Lands | Community Park, and WDNR Glacial Habitat Restoration Areas are located within the screening area. |
| #4 | Sensitive Resources | Grand River, West Branch Rock River, and unnamed streams are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies a number of architectural and historic sites, particularly within the Village of Brandon. Archaeological sites are identified in proximity to the waterways. |
| | Miscellaneous | There is a low probability of encountering endangered resources. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>West Darien-Southwest Delavan 138/69-kV line</u> | | Exhibit RS-32 |
|---|--|--|
| | General Description | New line |
| | Length (miles) | approximately 3.0 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 16 |
| #2 | Corridor Sharing Opportunities | Federal highway, State and County roads, railroad corridor, and existing electrical distribution lines routes located within the screening corridor offer the best potential for corridor sharing. |
| #3 | Public Lands | Turtle Creek Hunting Grounds |
| #4 | Sensitive Resources | Turtle Creek Wildlife Area, streams, small lakes and wetlands. |
| #5 | Cultural Resources | Clown Hall of Fame, Circus Colony, Wisconsin's First School for the Deaf Marker. |
| | Miscellaneous | |

| <u>Jefferson-Lake Mills-Stony Brook 138-kV line</u> | | Exhibit RS-15 |
|---|--|---|
| | General Description | New line |
| | Length (miles) | approximately 12 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 78 |
| #2 | Corridor Sharing Opportunities | Several state and county highways, and portions of existing transmission rights of-way, pipelines, and active and abandoned railroad corridors are within the screening zone. |
| #3 | Public Lands | Aztalan State Park, Lake Mills state wildlife area, Waterloo state wildlife area, Rock Lake County park, the Jefferson County Fairgrounds, and several local parks are located in the screening area. |
| #4 | Sensitive Resources | Several Lakes (Rock, Bean, Marsh, and Mud), the Crawfish and Rock Rivers and their tributaries are located in the screening area. Bean Lake and Waterloo Prairie State, Snapper and Falville Prairie State Natural Areas are located near the screening area. |
| #5 | Cultural Resources | Aztalan Museum and Aztalan State Park are identified on the Cultural Map of Wisconsin within the screening area. |
| | Miscellaneous | The Muck Farms Airport, Tesmer Field, and Ha-Rail Field are located in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Sprecher-Femrite 138-kV line | | Exhibit RS-28 |
|-------------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 2.6 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 8 |
| #2 | Corridor Sharing Opportunities | Existing transmission lines, railroad corridors, federal highways, and town roads offer the best opportunities for corridor sharing. |
| #3 | Public Lands | None listed. |
| #4 | Sensitive Resources | Legacy places lists the upper Yahara River Streams and Lakes, other streams and wetlands within screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

| Forest Junction-Howards Grove-Charter Steel to Plymouth #4 138-kV line | | Exhibit RS-13 |
|---|--|--|
| | General Description | New double circuit line to connect Plymouth # 4 Substation |
| | Length (miles) | approximately 1.2 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 2.5 |
| #2 | Corridor Sharing Opportunities | State Highways 23 and 57 are located within the screening area as well as several county highways. |
| #3 | Public Lands | None shown. |
| #4 | Sensitive Resources | Sheboygan River, Mullet River, Otter Creek, scattered wetlands, some forested lands, and extensive agricultural lands are present in the screening area. |
| #5 | Cultural Resources | None shown. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>Southwest Ripon to the Ripon-Metomen 69-kV line</u> | | Exhibit RS-29 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 1.5 |
| #1 | Screening Area (Sq. mi.) | 4 |
| #2 | Corridor Sharing Opportunities | County and local roads provide opportunities for corridor sharing. |
| #3 | Public Lands | Barlow Park and Kiwanis Park are within the screening area. |
| #4 | Sensitive Resources | Two unnamed streams and associated wetlands are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies numerous architectural and historic sites within the City of Ripon. |
| | Miscellaneous | There is a low probability of encountering endangered resources. |

| <u>Southwest Delavan-Delavan or Bristol 138/69-kV line</u> | | Exhibit RS-24 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 3.5 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 22 |
| #2 | Corridor Sharing Opportunities | Federal highway, state and county roads, railroad corridor, and existing electrical distribution lines routes located within the screening area offer the best potential for corridor sharing. |
| #3 | Public Lands | Turtle Creek Hunting Grounds |
| #4 | Sensitive Resources | Turtle Creek Wildlife Area, streams, small lakes and wetlands. |
| #5 | Cultural Resources | Clown Hall of Fame, Circus Colony, Wisconsin's First School for the Deaf Marker. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Rubicon-Hustisford 138-kV line | | Exhibit RS-25 |
|---------------------------------------|--|---|
| | General Description | New line |
| | Length (miles) | approximately 5 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 45 |
| #2 | Corridor Sharing Opportunities | State Highways 60 and 67 and County Highways EE and N are located within the screening area. |
| #3 | Public Lands | No DNR managed lands or state natural areas are located in the screening area. . |
| #4 | Sensitive Resources | Lake Sinissippi, Neosho Millpond, Rubicon River, Hepp Creek, and scattered wetlands and woodlots are found within the screening zone. Extensive agricultural lands are located in the screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

| North Madison-Waunakee 138-kV line | | Exhibit RS-20 |
|---|--|--|
| | General Description | New line |
| | Length (miles) | approximately 5 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 47 |
| #2 | Corridor Sharing Opportunities | Highway 113 and several county highways and local roads are located within the screening area. |
| #3 | Public Lands | No DNR managed lands or state natural areas are located in the screening area. . |
| #4 | Sensitive Resources | Sixmile Creek and various tributaries, isolated wetlands and woodlots are found within the screening area. Empire Prairie state natural area is located near the screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | Extensive agricultural lands and rolling terrain. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Cranberry-Conover 115-kV line | | Exhibit RS-6 |
|--------------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 11 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 74 |
| #2 | Corridor Sharing Opportunities | State Highways 32/45 and 17, county highways, local roads, existing electrical transmission and distribution lines and railroad corridors are present in the screening area. |
| #3 | Public Lands | Chequamegon/ Nicolet National Forest, Northern Highland - American Legion State Forest, Eagle Lake Park. |
| #4 | Sensitive Resources | Numerous lakes, streams, wetlands, and forested lands are found in the screening area. |
| #5 | Cultural Resources | There is a high potential for historic and cultural resources within the screening area. |
| | Miscellaneous | Eagle River Union airport is located within the screening area. |

| South Lake Geneva-White River 138-kV line | | Exhibit RS-34 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 3 |
| #1 | Screening Area (Sq. mi.) | 25.94 |
| #2 | Corridor Sharing Opportunities | United States Highway 12 and State Highway 120, along with other roads offer opportunities for corridor sharing, along with the existing transmission line Y-152. |
| #3 | Public Lands | Big Foot Beach State Park and other WDNR owned lands are located within the screening area. |
| #4 | Sensitive Resources | Lake Geneva, Lake Como, and a number of large wetland complexes are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies archaeological and historic resources in the screening area, particularly located near Lake Geneva. |
| | Miscellaneous | There is a moderate probability on encountering endangered resources. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Montrose-Sun Valley-Oak Ridge 138-kV line | | Exhibit RS-18 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 9 |
| #1 | Screening Area (Sq. mi.) | 63.49 |
| #2 | Corridor Sharing Opportunities | Numerous county and local roads, and a recreational trail offer opportunities for corridor sharing. |
| #3 | Public Lands | Nevin Hatchery, Brooklyn Wildlife Area, and a WDNR recreational trail are located within the screening area. |
| #4 | Sensitive Resources | The Sugar River and associated wetlands, Story Creek, and other unnamed streams and wetlands are located within the screening area. |
| #5 | Cultural Resources | The WHS database has identified architectural and historic sites within the screening area. |
| | Miscellaneous | There is a moderate probability on encountering endangered resources. |

| Clintonville-Werner West 138-kV line | | Exhibit RS-17 |
|---|--|--|
| | General Description | New line primarily on Morgan-Werner West structures |
| | Length (miles) | approximately 16 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 555 |
| #2 | Corridor Sharing Opportunities | Several state highways, county highways, existing transmission rights-of-way, pipelines, and railroads within the screening zone. |
| #3 | Public Lands | Several state wildlife areas (Mukwa, Navarino, Hortonville Bog, Deer Creek), Wiouwash State Trail, and parks including Cedar County Park, Walter A. Olen, Shiocton Lake, Lindsay, Pfeifer, Hatten, Abrahams Parks, as well as numerous fish, wildlife, habitat and natural areas along the Wolf River throughout screening zone. |
| #4 | Sensitive Resources | The Wolf River, Embarrass River, Bear Creek, Maple Creek, Cedar Creek, Pigeon lake and wetlands along with forested lands and agricultural land are in the screening area. |
| #5 | Cultural Resources | High potential for historic and cultural resources within screening zone. |
| | Miscellaneous | Numerous cemeteries. Clintonville Municipal Airport. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Morgan-Werner West 345-kV line | | Exhibit RS-17 |
|---------------------------------------|--|---|
| | General Description | New line |
| | Length (miles) | approximately 47 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 555 |
| #2 | Corridor Sharing Opportunities | Several state highways, county highways, existing transmission rights-of-way, pipelines, and railroads within the screening zone. |
| #3 | Public Lands | Several State Wildlife areas (Mukwa, Navarino, Hortonville Bog, Deer Creek), Shawano Lake Fishery Area, the Wiouwash, Nicolet, and Mountain Bay State Trails, and parks including Cedar County Park, Walter A. Olen, Shiocton Lake, Lindsay, Pfeifer, Hatten, Abrahams Parks, as well as numerous fish, wildlife, habitat and natural areas along the Wolf River throughout screening zone. |
| #4 | Sensitive Resources | The Wolf River, Embarrass River, Oconto River, Bear Creek, Maple Creek, Cedar Creek, several lakes, including Pigeon lake, Grass Lake, Pine Lake, Shawano Lake, Jung Hemlock-Beech Forest State Natural Area, and wetlands along with forested lands and agricultural land are in the screening area. |
| #5 | Cultural Resources | High potential for historic and cultural resources within screening zone. |
| | Miscellaneous | Numerous cemeteries. Clintonville Municipal Airport. |

| Reroute Paddock-Shirland Avenue 69-kV line to Northwest Beloit | | Exhibit RS-22 |
|---|--|--|
| | General Description | Connect existing line to Northwest Beloit Substation |
| | Length (miles) | approximately 1.0 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 1.5 |
| #2 | Corridor Sharing Opportunities | Existing road and railroad corridors. Possible sharing with local electrical distribution lines. |
| #3 | Public Lands | None shown. |
| #4 | Sensitive Resources | Unnamed tributary to Raccoon Creek |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Femrite/Royster-AGA 69-kV line | | Exhibit RS-11 |
|---------------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 0.3 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 0.2 |
| #2 | Corridor Sharing Opportunities | Local roads offer some opportunities for corridor sharing. |
| #3 | Public Lands | The Femrite-Royster line is adjacent to the Glacial Drumlin Trail. |
| #4 | Sensitive Resources | Woodlot located in industrial park. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | Primarily commercial/industrial park land uses. |

| Concord-Bark River 345-kV line | | Exhibit RS-5 |
|---------------------------------------|--|---|
| | General Description | New line |
| | Length (miles) | approximately 17 total, 10 of new right-of-way |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 107 |
| #2 | Corridor Sharing Opportunities | Several state and county highways, existing transmission rights-of-way, pipelines, and railroad corridors are within the screening zone. |
| #3 | Public Lands | State public hunting grounds, Monches County Park and other undeveloped county parklands, and several community parks are located within the screening area. |
| #4 | Sensitive Resources | Keesus Lake Marshland Preservation area, Ashippun Lake access and wildlife area, Keesus Lake, North Lake, Beaver Lake, Pine Lake, Cornell Lake, Moose Lake, Okauchee Tamarack Lake, Ashippun Lake, Lac La Belle, and several streams including Bark River, Oconomowoc River, Mason Creek, Ashippun River, Rock River and tributaries are all located in the screening area. |
| #5 | Cultural Resources | The Marantha Baptist Bible College, the Octagon House, Northwestern College and the Main Street Commercial District in Watertown and the East Capitol Drive Historic District in Hartland are identified on the Cultural Map of Wisconsin within the screening area. |
| | Miscellaneous | The Watertown Municipal Airport and the Oconomowoc Landing Strip are located in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Evansville-Brooklyn 69-kV line | | Exhibit RS-10 |
|---------------------------------------|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 8 |
| #1 | Screening Area (Sq. mi.) | 55.08 |
| #2 | Corridor Sharing Opportunities | United States Highway 14, numerous county and local roads, along with a railroad corridor, offer opportunities for corridor sharing. |
| #3 | Public Lands | Evansville Wildlife Area |
| #4 | Sensitive Resources | Allen Creek and Tributaries, and a tributary of Badfish Creek are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies architectural and historic sites, particularly concentrated within the Village of Brooklyn and the City of Evansville. Two archaeological sites are identified within the screening area. |
| | Miscellaneous | There is a moderate probability of encountering endangered resources. |

| Rockdale-West Middleton 345-kV line | | Exhibit RS-23 |
|--|--|--|
| | General Description | 345-kV System Tie |
| | Length (miles) | approximately 28 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 290 |
| #2 | Corridor Sharing Opportunities | New tie from the 345-kV system to relieve system overloads in the Madison area. Additional rights-of-way will be required. State/county roads and existing transmission lines located within the screening area offer the best possibility of corridor sharing. |
| #3 | Public Lands | Numerous city, county, and state parks including Indian Lake, LaFollette, and Festbe County Parks, Governor Nelson and Lake Kegonsa State Parks, portions of the Glacial Drumlin State Trail, and several state fishery and wildlife areas are located within the screening area. |
| #4 | Sensitive Resources | Bean Lake, Red Cedar Lake, and the Hook Lake/Grass Lake state natural areas, and much of the Yahara River drainage basin are found within the screening area |
| #5 | Cultural Resources | The Koshkonong Norwegian Settlement, Bernard-Hoover Boar House, Robert M. LaFollette House, Gilmore House, Olin House, the State Capital, several effigy mound sites, numerous museums, and the Langdon Street, Sherman Avenue, Third Lake Ridge, and University Heights Historic Districts are located within the screening area. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>Deforest/Token Creek-Yahara 69-kV line</u> | | Exhibit RS-7 |
|---|--|--|
| General Description | | New line |
| Length (miles) | | approximately 1.0 |
| #1 Screening Area (Sq. mi.- length X width) | | approximately 1.7 |
| #2 Corridor Sharing Opportunities | | Highways 19 and 51 are located in the screening area. |
| #3 Public Lands | | Cherokee Marsh fishery area is located near the screening area. |
| #4 Sensitive Resources | | Cherokee Marsh and Yahara River are located near the screening area. |
| #5 Cultural Resources | | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| Miscellaneous | | Commercial and industrial land uses are common. |

| <u>Lake Delton-Birchwood 138-kV line</u> | | Exhibit RS-16 |
|---|--|--|
| General Description | | New line |
| Length (miles) | | approximately 5 |
| #1 Screening Area (Sq. mi.- length X width) | | approximately 41 |
| #2 Corridor Sharing Opportunities | | Interstate Highway 90/94, United States Highway 12, State Highway 23, several county highways and local electrical distribution lines. |
| #3 Public Lands | | Mirror Lake State Park, Dell Creek wildlife area, Hulburt Creek Woods State Natural Area and Hulburt Creek fishery area. |
| #4 Sensitive Resources | | State Natural Areas and State Parks, Dell Creek, Harrison Creek, Lake Delton, Mirror Lake, Lake Blass, International Crane Foundation are located within the screening area. |
| #5 Cultural Resources | | Cultural Map of Wisconsin identifies Dawn Manor, Seth Peterson cottage, International Crane Foundation, and the H.H. Bennett Studio within the screening area. |
| Miscellaneous | | Ho Chunk tribal lands and the Baraboo Dells Airport are located in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Dunn Road-Egg Harbor 69-kV line | | Exhibit RS-8 |
|--|--------------------------------|---|
| | General Description | Construct a second 69-kV line |
| | Length (miles) | 12.66 |
| #1 | Screening Area (Sq. mi.) | 82.7 |
| #2 | Corridor Sharing Opportunities | State Highway 42 and existing transmission line X-24A provide the best opportunities for corridor sharing, along with county and local roads. |
| #3 | Public Lands | None identified |
| #4 | Sensitive Resources | The screening area is adjacent to Lake Michigan. |
| #5 | Cultural Resources | The WHS database identifies several architectural and historic sites within the screening area, many are located near State Highway 42. |
| | Miscellaneous | There is a high probability of encountering endangered resources. |

| Eden-Muscoda-Richland Center 69-kV line | | Exhibit RS-9 |
|--|--|---|
| | General Description | New line |
| | Length (miles) | approximately 25 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 234 |
| #2 | Corridor Sharing Opportunities | Railroads, existing transmission lines, and State/United States Highways offer corridor sharing potential. |
| #3 | Public Lands | Blackhawk Lake Recreation area, Pine River public hunting grounds, and Big Spring Fishery area, and other public lands along the Wisconsin River are located in the screening area. |
| #4 | Sensitive Resources | Wisconsin River, Lower Wisconsin State Riverway, Southwest Wisconsin Driftless area topography, Big Spring Fishery area, Pine River Public Hunting Grounds, Blackhawk Lake Recreation area, Lower Wisconsin State Wildlife Area, Blue River Sand Barrens State Natural Area, Avoca Prairie Savanna State Natural Area, and Orion Mussel Bed State Natural Area are located in the screening area. |
| #5 | Cultural Resources | Court Street Commercial Historic District, Birthplace of GTE, Krouskop Park, AD German Warehouse, Eagle Effigy Mounds, proposed Ho-Chunk Cultural Park, Dr. Bertha E. Reynolds Memorial, Rural Electrification Marker are shown on the Cultural map of Wisconsin. |
| | Miscellaneous | Pierick Landing Strip |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Salem-Spring Green-West Middleton 345-kV line | | Exhibit RS-26 |
|---|--|--|
| | General Description | New line - Large Access Project |
| | Length (miles) | approximately 114 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 2480 |
| #2 | Corridor Sharing Opportunities | Numerous federal, state, and county highways, existing transmission lines, railroad corridors, and town roads offer the best opportunities for corridor sharing. |
| #3 | Public Lands | Nelson Dewey State Park, Governor Dodge State Park, Tower Hill State Park, Bluemounds State Park, Blackhawk Lake Recreational Area, Turkey River Mounds State Park (IA), White Pine Hollow State Forest Preserve (IA), Lower Wisconsin State Riverway, numerous county parks and other public lands are scattered throughout the screening area. |
| #4 | Sensitive Resources | Upper Mississippi River National Wildlife and Fish Refuge, Lower Wisconsin State Riverway, numerous Wisconsin State Natural Areas, several State Preserves and recreational areas, The Mississippi and Wisconsin Rivers and their tributaries, and various other wetlands, lakes and streams are located within the screening area. |
| #5 | Cultural Resources | The Cultural Map of Wisconsin identifies numerous cultural resources in the screening area. The potential for encountering cultural and historic resources is high in the screening area. |
| | Miscellaneous | Principal ecological landscapes include the Southwest Savanna, Western Coulee and Ridges, Central Sand Plains, and Central Sand Hills. The western portions of the screening area are generally located in Wisconsin's Driftless area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Chalk Hills-Chandler 69 kV conversion to 138 kV | | Exhibit RS-3 |
|--|--------------------------------|--|
| | General Description | Rebuild/convert to 138-kV operation |
| | Length (miles) | 54 |
| #1 | Screening Area (Sq. mi.) | 87.54 |
| #2 | Corridor Sharing Opportunities | United States Highway 2, numerous county and local roads, and railroad corridors provide opportunities for corridor sharing. |
| #3 | Public Lands | Escanaba River State Forest, and other state owned land along RR corridor. |
| #4 | Sensitive Resources | Numerous wetlands |
| #5 | Cultural Resources | None identified |
| | Miscellaneous | There is a moderate probability of encountering endangered resources. |

| South Lake Geneva-Lake Shore 69-kV line | | Exhibit RS-27 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 3.2 |
| #1 | Screening Area (Sq. mi.) | 13.76 |
| #2 | Corridor Sharing Opportunities | Existing roadways offer the best opportunities for corridor sharing. |
| #3 | Public Lands | Big Foot Beach State Park is located in the screening area. |
| #4 | Sensitive Resources | Lake Geneva, and a few large wetland complexes. |
| #5 | Cultural Resources | The WHS database identifies a few archaeological and historic sites near Lake Geneva. |
| | Miscellaneous | There is a moderate probability of encountering endangered resources. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>Twin Lakes-Spring Valley 138-kV line</u> | | Exhibit RS-30 |
|---|--|---|
| | General Description | New line |
| | Length (miles) | approximately 9 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 64 |
| #2 | Corridor Sharing Opportunities | Several Kenosha County highways and a railroad corridor are located within the screening area. |
| #3 | Public Lands | Silver Lake and Fox River Parks and New Munster State Wildlife area are located in the screening area. |
| #4 | Sensitive Resources | The Fox River and tributaries and several lakes are located within the screening area. Peat Lake, Silver Lake Bog, and New Munster Bog Island State Natural Areas are located in the screening area. The Elizabeth Lake wetlands and Southeast Prairie Pothole areas are located in or near the screening area. |
| #5 | Cultural Resources | No locations of cultural interest are identified on the Cultural Map of Wisconsin within the screening area. |
| | Miscellaneous | Westosha and Camp Lake Landing Strips |

| <u>Horicon-East Beaver Dam 138-kV line</u> | | Exhibit RS-14 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 9 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 65 |
| #2 | Corridor Sharing Opportunities | Highway 33, County highways, and a railroad right-of-way offer possible sharing opportunities. |
| #3 | Public Lands | Portions of Horicon Marsh and Shaw Marsh wildlife areas and the Wild Goose Trail are within the screening area. |
| #4 | Sensitive Resources | Horicon and Shaw Marsh, Rock River, Pratt Creek, Schulz Creek, Crystal Creek, Park Creek and Beaver Dam River are located in the screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Oak Creek-Hale (Brookdale) 345-kV line | | Exhibit RS-21 |
|---|--|--|
| | General Description | New transmission line segments along with conversion of 16 mile 138-kV segment to 345 kV. |
| | Length (miles) | approximately 24 total, 4 of new right-of-way |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 200 |
| #2 | Corridor Sharing Opportunities | Several state and county roads and existing 138, 230, and 345-kV line routes exist in the screening area. |
| #3 | Public Lands | Racine and Milwaukee County Parkland, Root River Parkway, Whitnall Park. |
| #4 | Sensitive Resources | Root River and tributaries, Big Muskego Lake, State Natural Areas (Gravel Pit Woods, Caddy Vista Woods, Stone Woods, County Line Lowland Woods, and a few locally significant areas identified in a SEWRPC report. |
| #5 | Cultural Resources | The Ben Hunt Cabin is identified in the screening area on the Cultural Map of Wisconsin. |
| | Miscellaneous | Some additional right-of-way needed, Hales Corners Airport. |

| West Middleton-North Madison 345-kV line | | Exhibit RS-33 |
|---|--|--|
| | General Description | New line |
| | Length (miles) | approximately 20 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 42 |
| #2 | Corridor Sharing Opportunities | United States Highways 12 and 14, State Highways 113 and 19, several county highways and local electrical distribution lines offer possible sharing opportunities. |
| #3 | Public Lands | Lodi Marsh wildlife area, county and local parks. |
| #4 | Sensitive Resources | Pheasant Branch, Black Earth Creek, Halfway Prairie Creek, Sixmile Creek, tributaries to the Yahara River, Brandenburg Lake, Lodi Marsh State Natural Area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | Morey Airport |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Fitzgerald-Omro Industrial 69-kV line | | Exhibit RS-12 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 6 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 49 |
| #2 | Corridor Sharing Opportunities | State highways and existing transmission lines offer corridor sharing opportunities. |
| #3 | Public Lands | Lake Butte des Morts boat landings, Tower Park, Stearn's Park, Omro Ball Park, and Waukau Creek Nature Preserve are located in the screening area. |
| #4 | Sensitive Resources | Fox River, Waukau Creek Nature Preserve, Spring Brook. |
| #5 | Cultural Resources | The Cultural Map of Wisconsin does not identify any sites within the screening area, however there are several cemeteries known in the screening area. |
| | Miscellaneous | Skydive Adventure Airport |

NOTES:

- | | | |
|----|---------------------------------|---|
| #1 | Screening Area Width: | For lines 0-5 miles long, screening area width equals length of segment: for lines 5-15 miles long, screening area width equals 5 miles; for lines > 15 miles long, screening area width equals 30% of line length. |
| #2 | Corridor Sharing Opportunities: | Identify dominant corridor types. |
| #3 | Public Lands: | Identify properties by name. |
| #4 | Sensitive Resources: | List major stream crossings, significant topographic features, designated natural areas, etc. |
| #5 | Cultural Resources: | List resources shown on the statewide cultural resources map. |

Siting Process for Identifying New Electric Transmission Corridors

Define Project Study Area

ATC first round of open houses

Define opportunities within project study area

Define and map sensitivities within project study area

Develop composite map of opportunities and sensitivities

Define potential siting corridors based on opportunities and sensitivities

ATC second round of open houses

Analyze and refine corridors

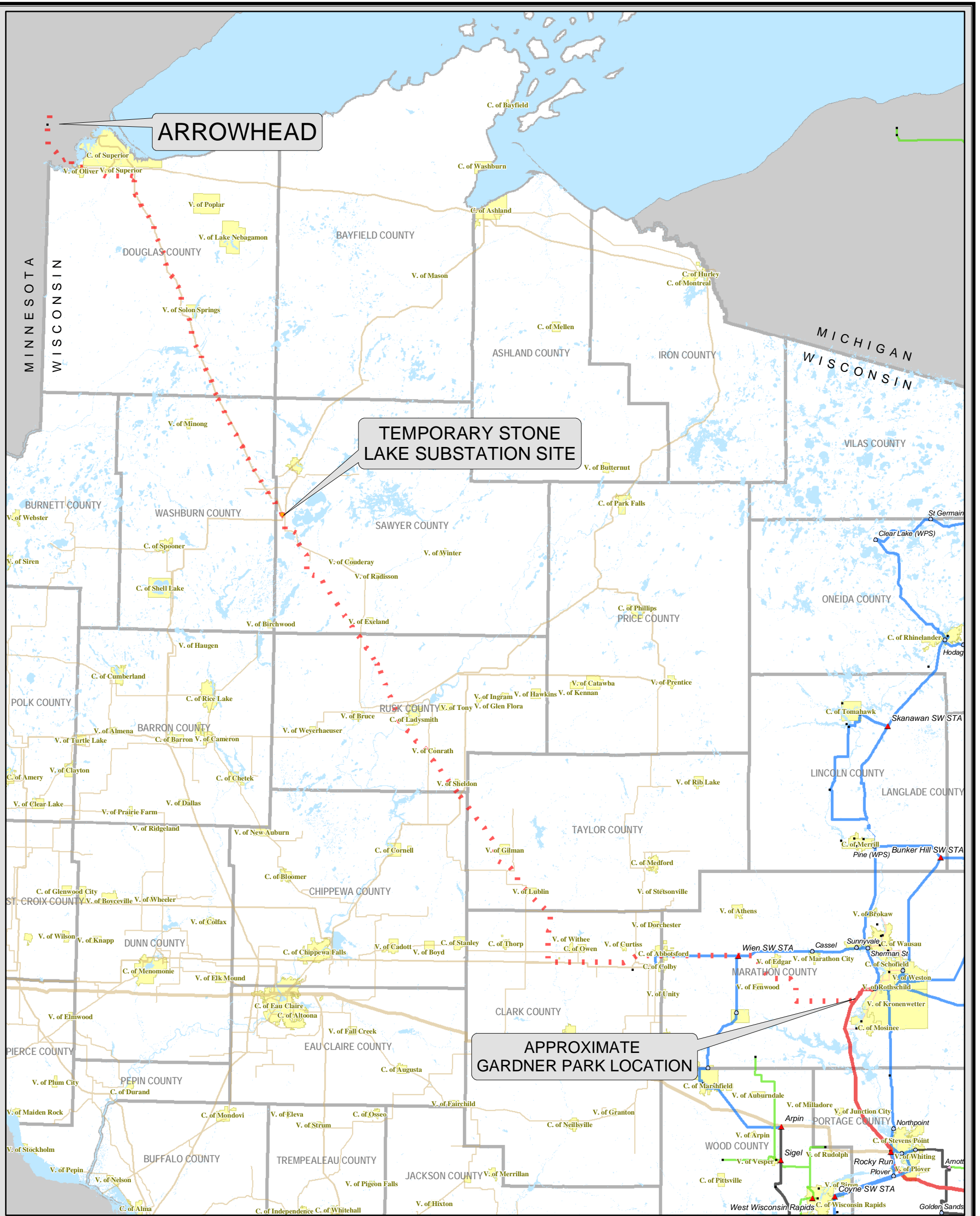
Select preliminary routes

ATC third round of open houses

Evaluate preliminary routes

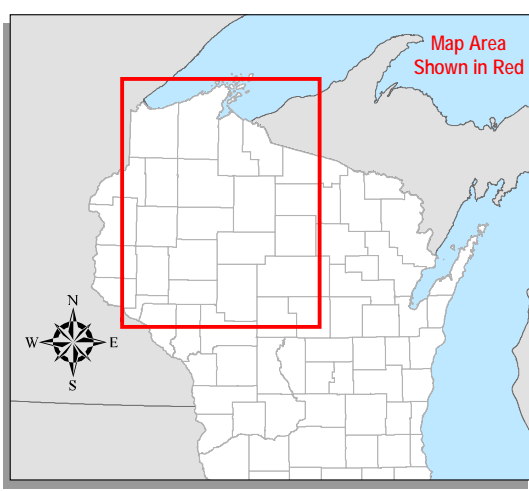
Select and map preferred and alternate routes

Conduct environmental characterization of routes

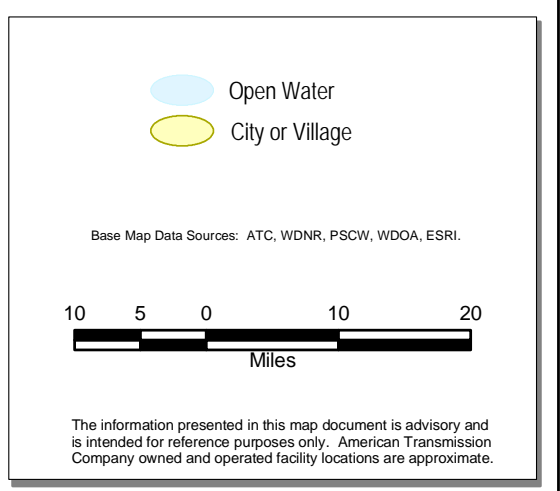


ATC
AMERICAN TRANSMISSION COMPANY
 THE ENERGY ACCESS COMPANY

PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Gardner Park-Stone Lake 345 kV Line and
 Construct Stone Lake-Arrowhead 345 kV Line

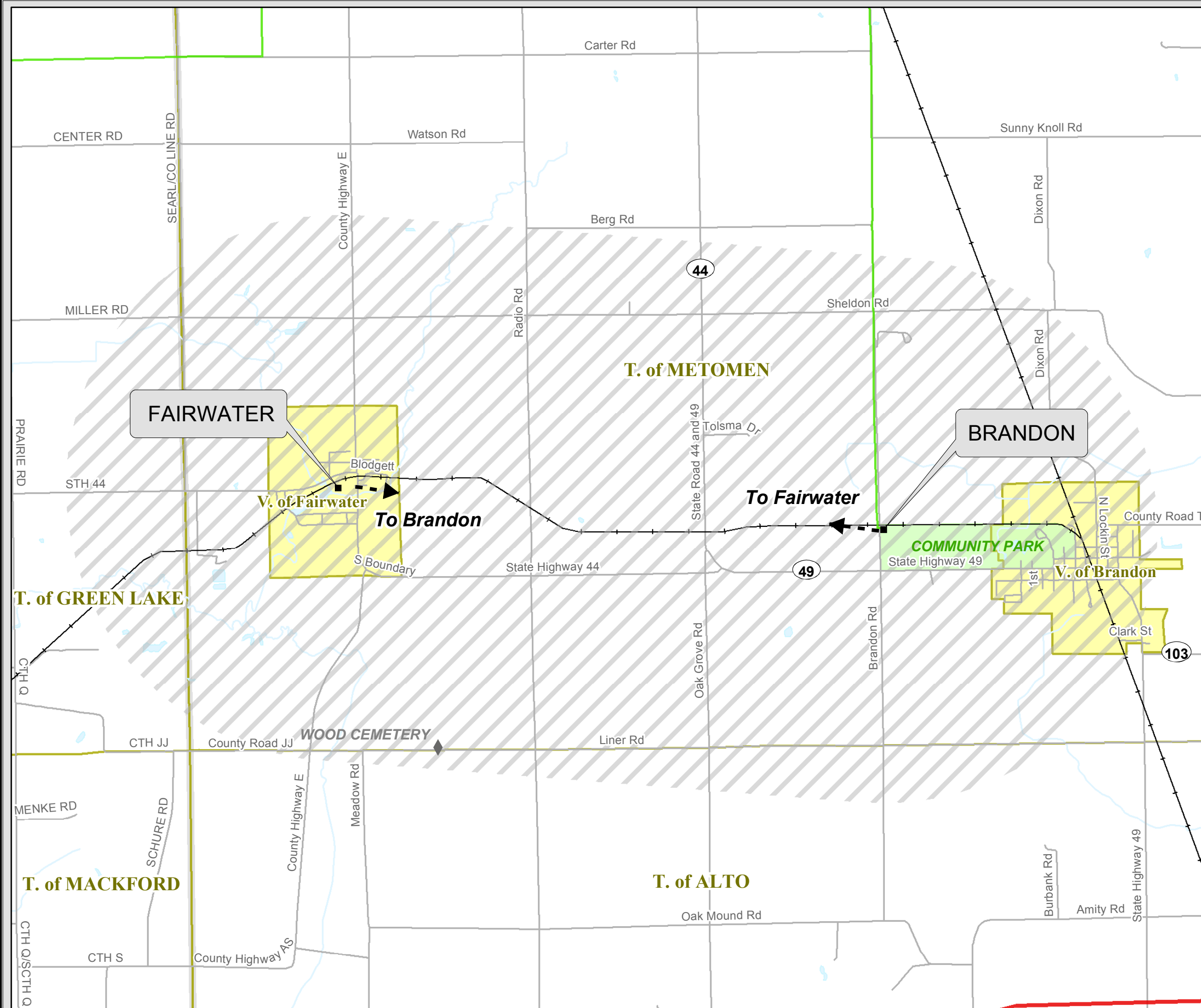
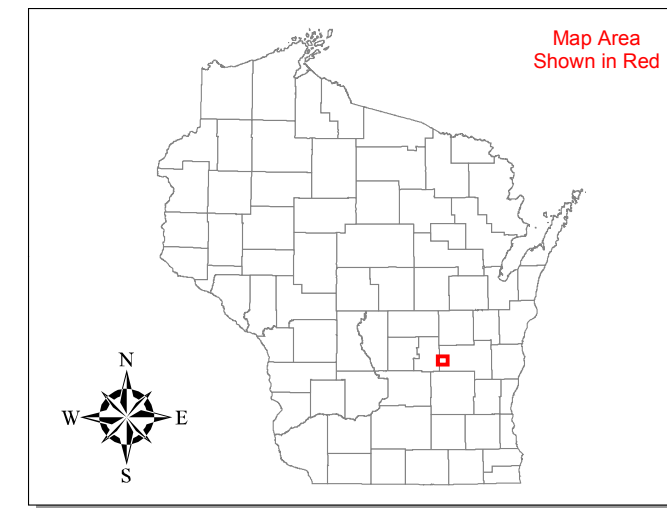


- Transmission Facilities**
- | Transmission Sites | Transmission Lines |
|--------------------------|----------------------------------|
| ▲ ATC Owned | — Proposed 345 kV Single Circuit |
| ◆ Joint Owned - Conveyed | — 345 kV Single Circuit |
| ● Joint Owned - Retained | — 115 kV Single Circuit |
| ☐ Generation | — 69 kV Single Circuit |
| ■ Muni or Distribution | — Non-ATC Transmission Line |
| ■ Design or Construction | |



**PROVISIONAL TRANSMISSION LINE
REQUIRING NEW RIGHT-OF-WAY**

Construct Brandon-Fairwater 69 kV Line

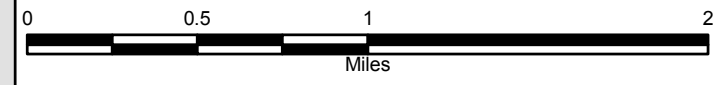


Transmission Facilities

- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| Single Circuit | ◆ Joint Owned - Conveyed |
| Double Circuit | ● Joint Owned - Retained |
| 138 kV | ■ Generation |
| Single Circuit | ■ Muni or Distribution |
| Double Circuit | ■ Design or Construction |

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ○ Park Areas | ○ City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



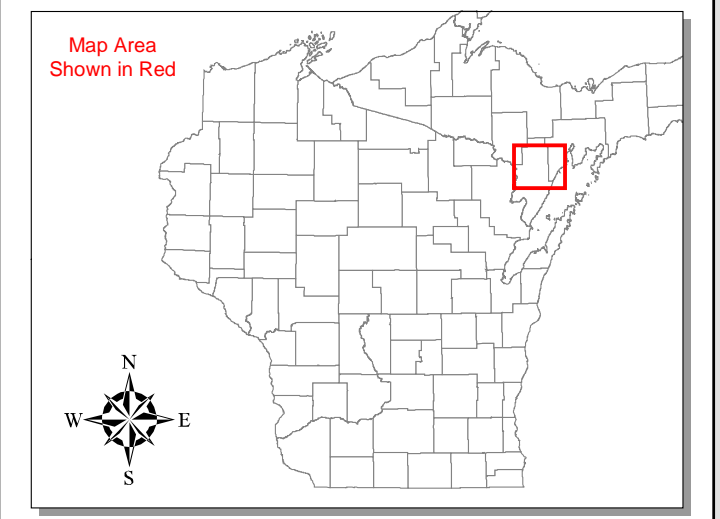
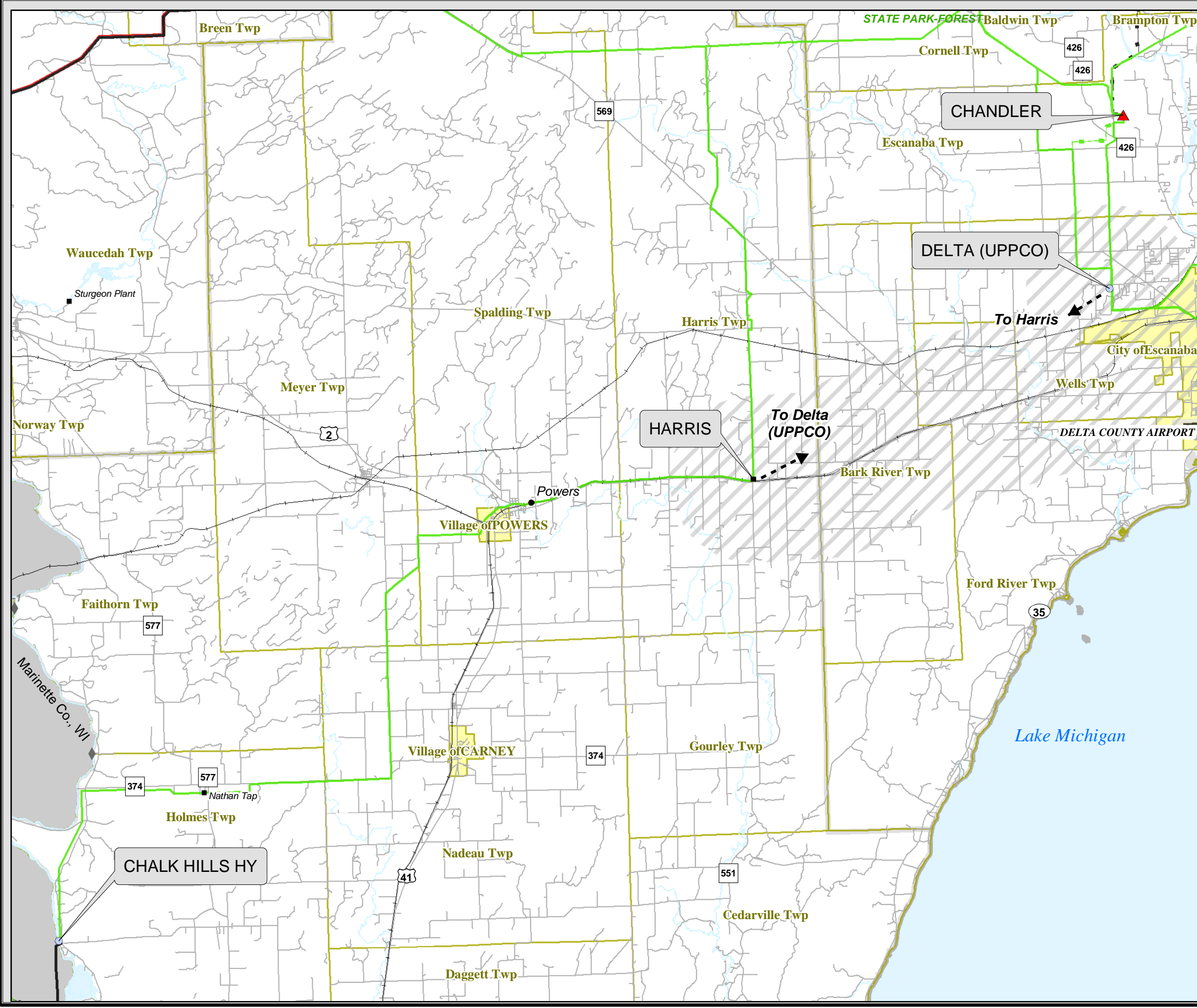
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



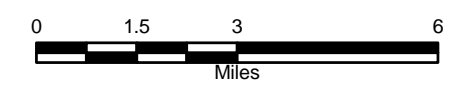
**PROVISIONAL TRANSMISSION LINE
REQUIRING NEW RIGHT-OF-WAY**

*Rebuild/Convert Chalk Hills-Chandler
69 kV to 138 kV Operation*



- Transmission Facilities**
- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| Single Circuit | ◆ Joint Owned - Conveyed |
| Double Circuit | ● Joint Owned - Retained |
| 138 kV | ☐ Generation |
| Single Circuit | ■ Muni or Distribution |
| Double Circuit | ■ Design or Construction |

- | | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ○ Park Areas | ○ City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

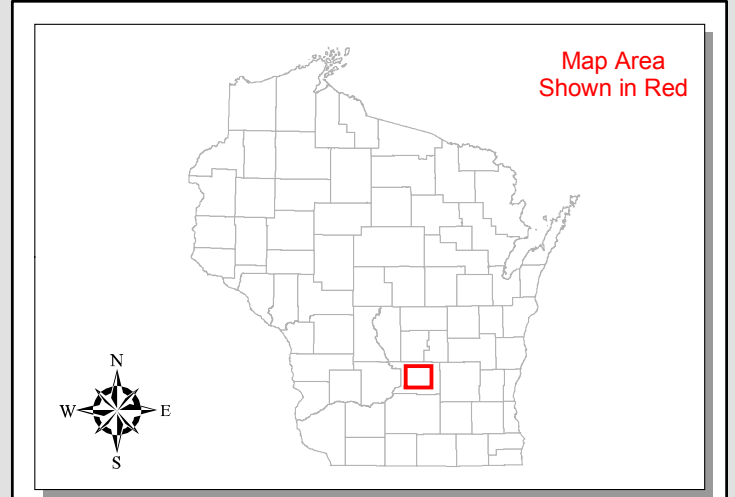
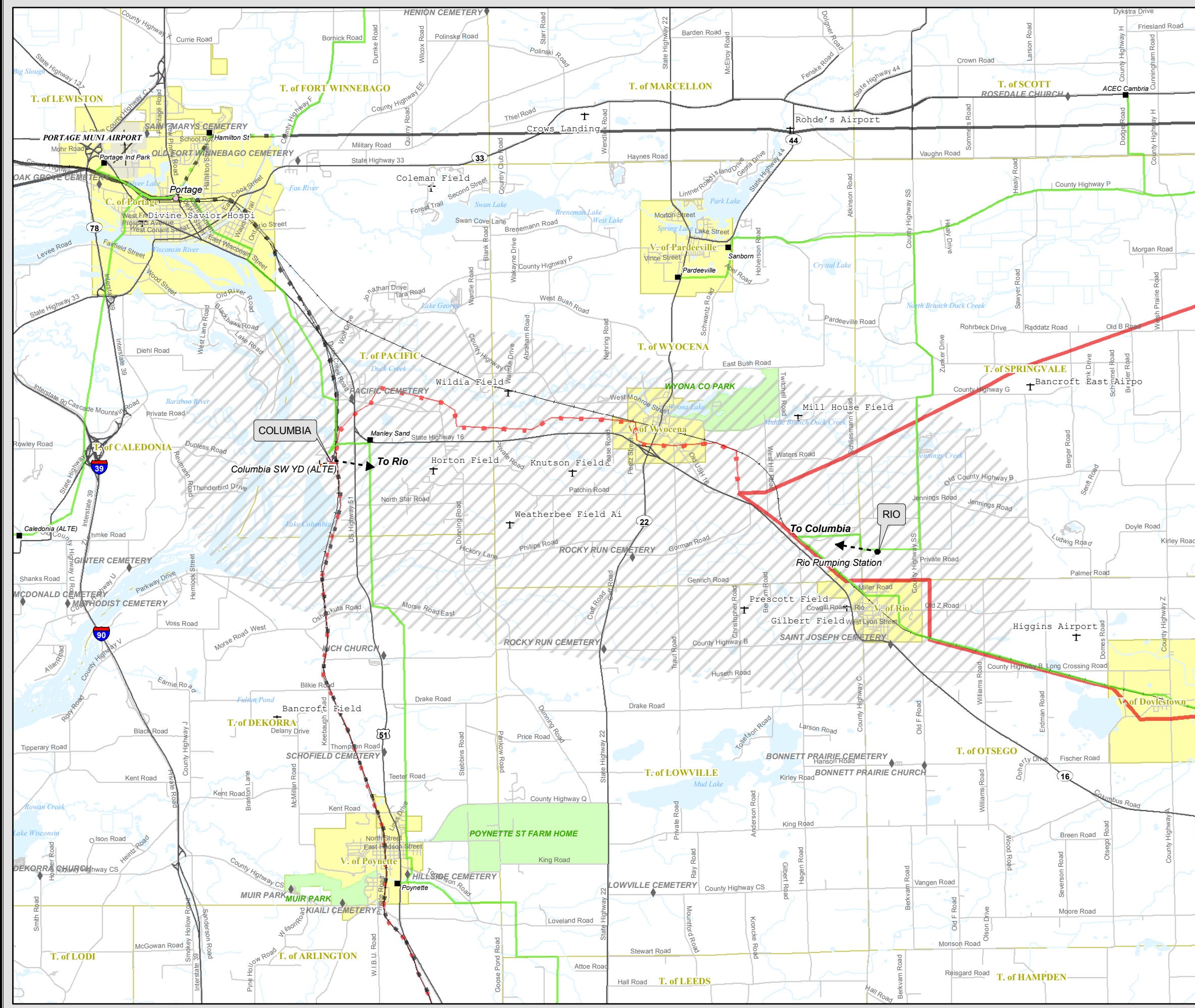


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* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Columbia to Rio 69 kV Line

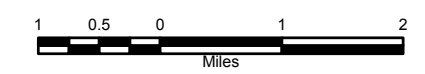


Transmission Facilities

| | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| Single Circuit | ◆ Joint Owned - Conveyed |
| Double Circuit | ◆ Joint Owned - Retained |
| Underground | ■ Generation |
| 138 kV | ■ Muni or Distribution |
| Single Circuit | ■ Design or Construction |
| Double Circuit | |
| Underground | |
| 345 kV | |
| Single Circuit | |
| Double Circuit | |

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ○ Park Areas | ○ City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

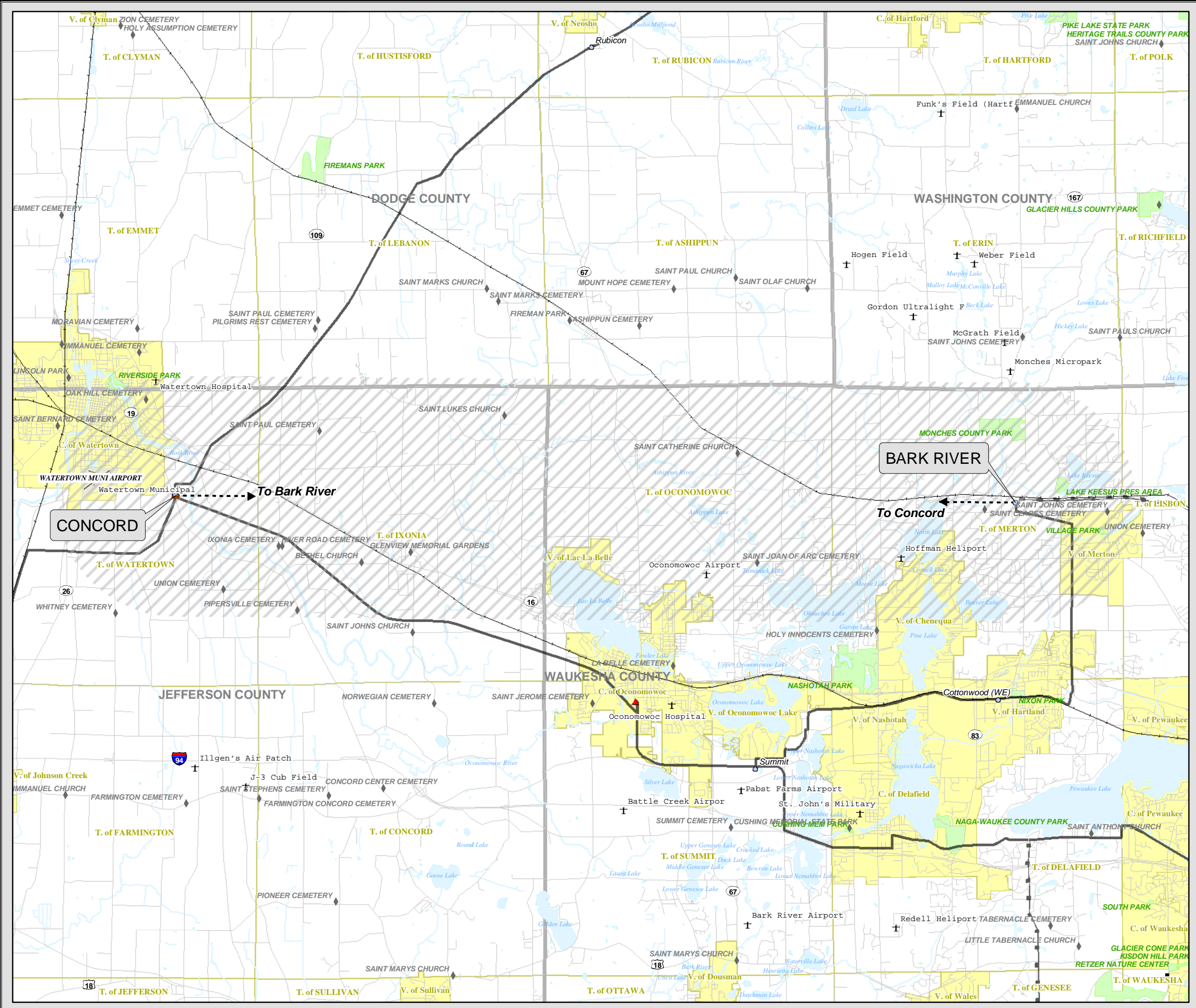
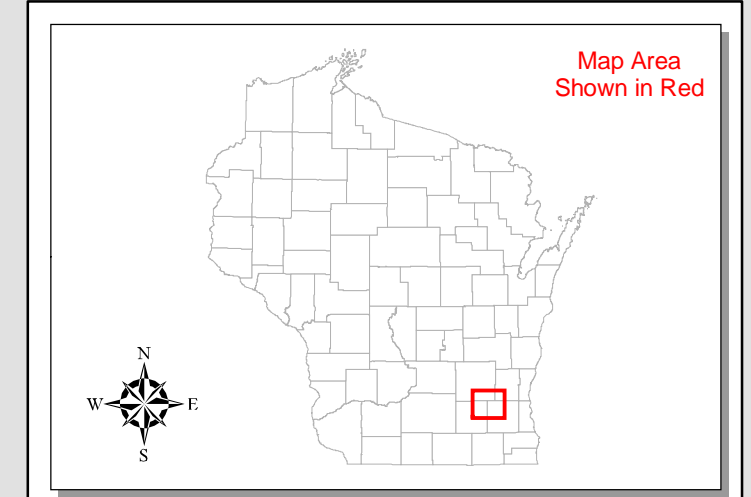


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*Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



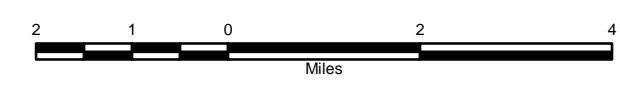
PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Concord to Bark River 345 kV Line



Transmission Facilities

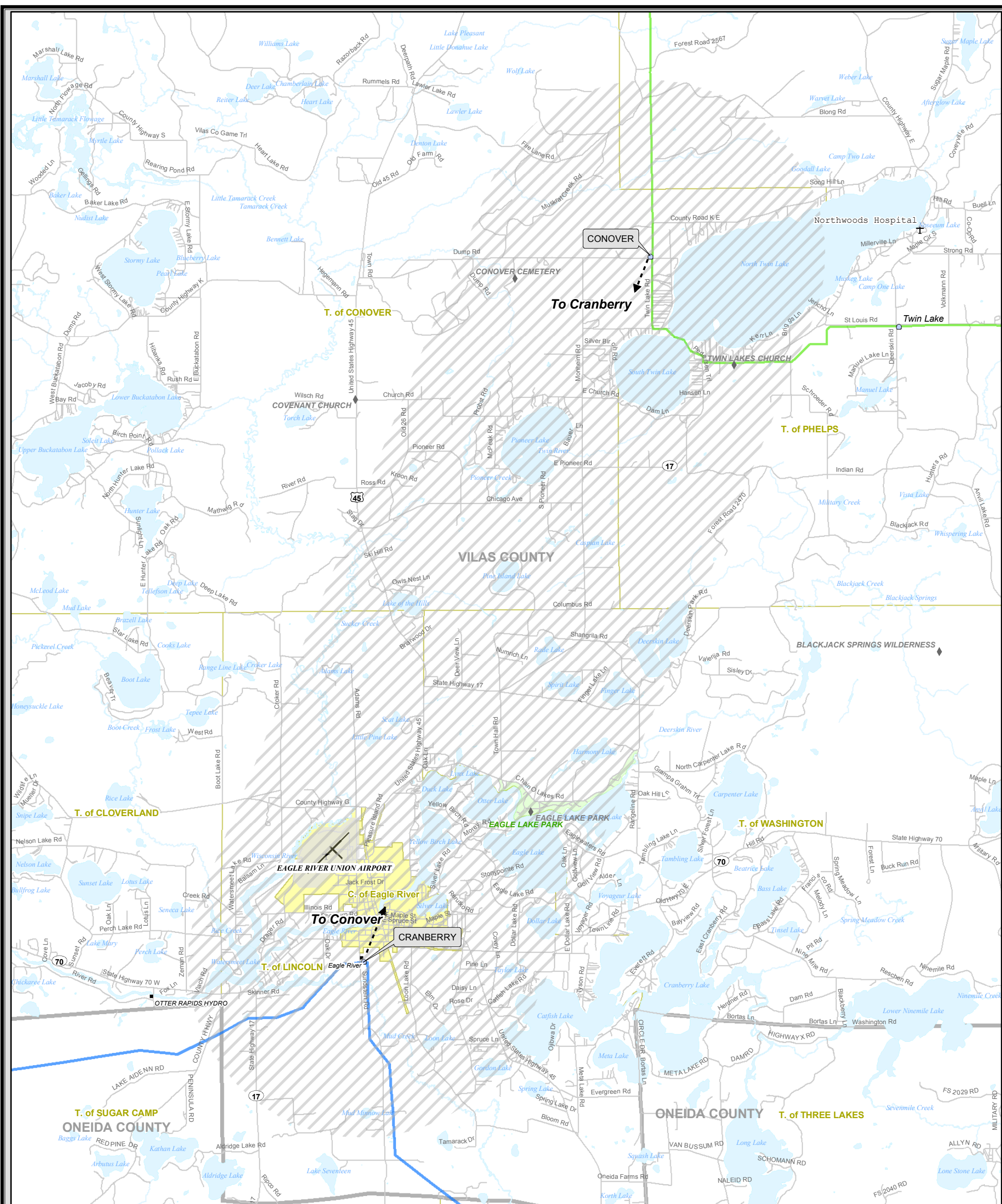
| | |
|---|---|
| Transmission Lines | Transmission Sites |
| <ul style="list-style-type: none"> 138 kV Single Circuit Double Circuit Underground | <ul style="list-style-type: none"> ATC Owned Joint Owned - Conveyed Joint Owned - Retained Generation Muni or Distribution Design or Construction |

| | |
|----------------------------|-----------------|
| Public Sites | Open Water |
| Park Areas | City or Village |
| Preliminary Screening Area | Town Boundary |

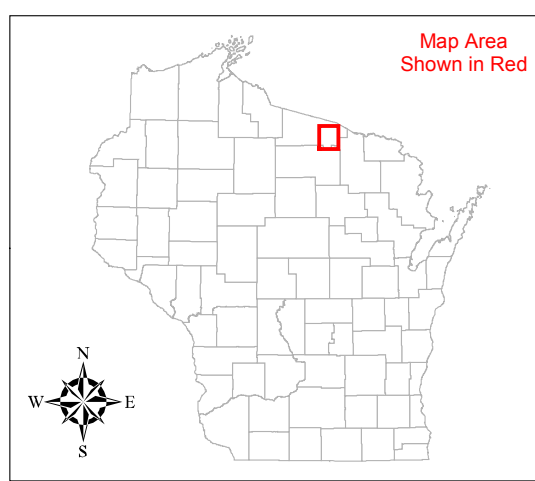


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 Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.





PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Cranberry to Conover 115 kV Line



- Transmission Facilities**
- | | |
|---------------------------|---------------------------|
| Transmission Lines | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| 115 kV | ■ Generation |
| — Single Circuit | ■ Muni or Distribution |
| — Double Circuit | ■ Design or Construction |

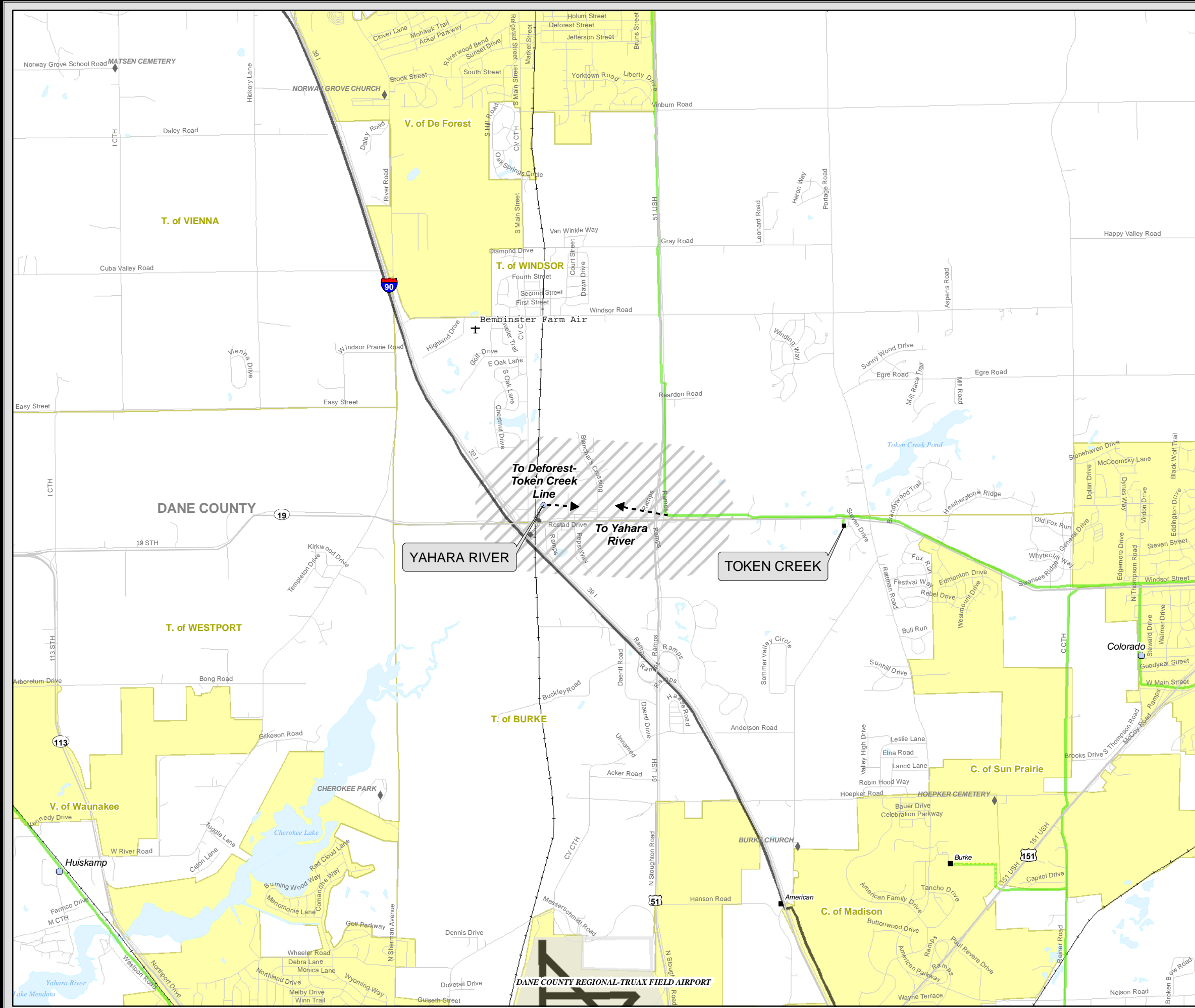
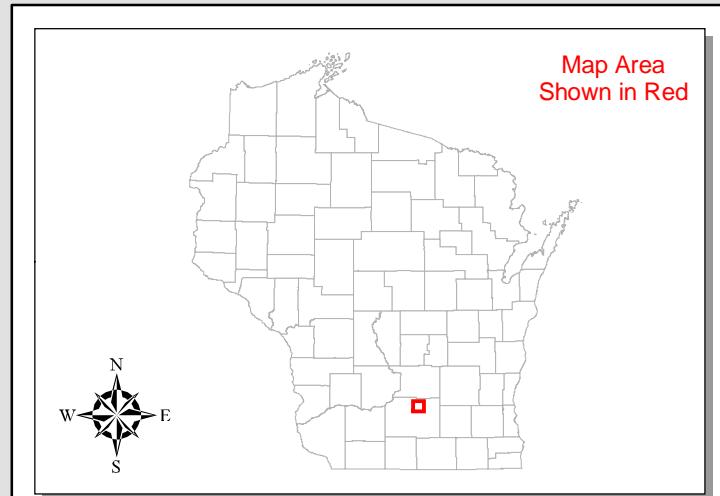
| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ○ City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

1 0.5 0 1 2
Miles

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PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Loop the Deforest to Token Creek 69 kV Line into Yahara River



Transmission Facilities

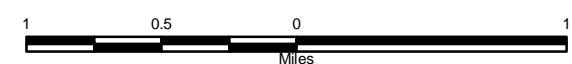
Transmission Sites

- ▲ ATC Owned
- ◆ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

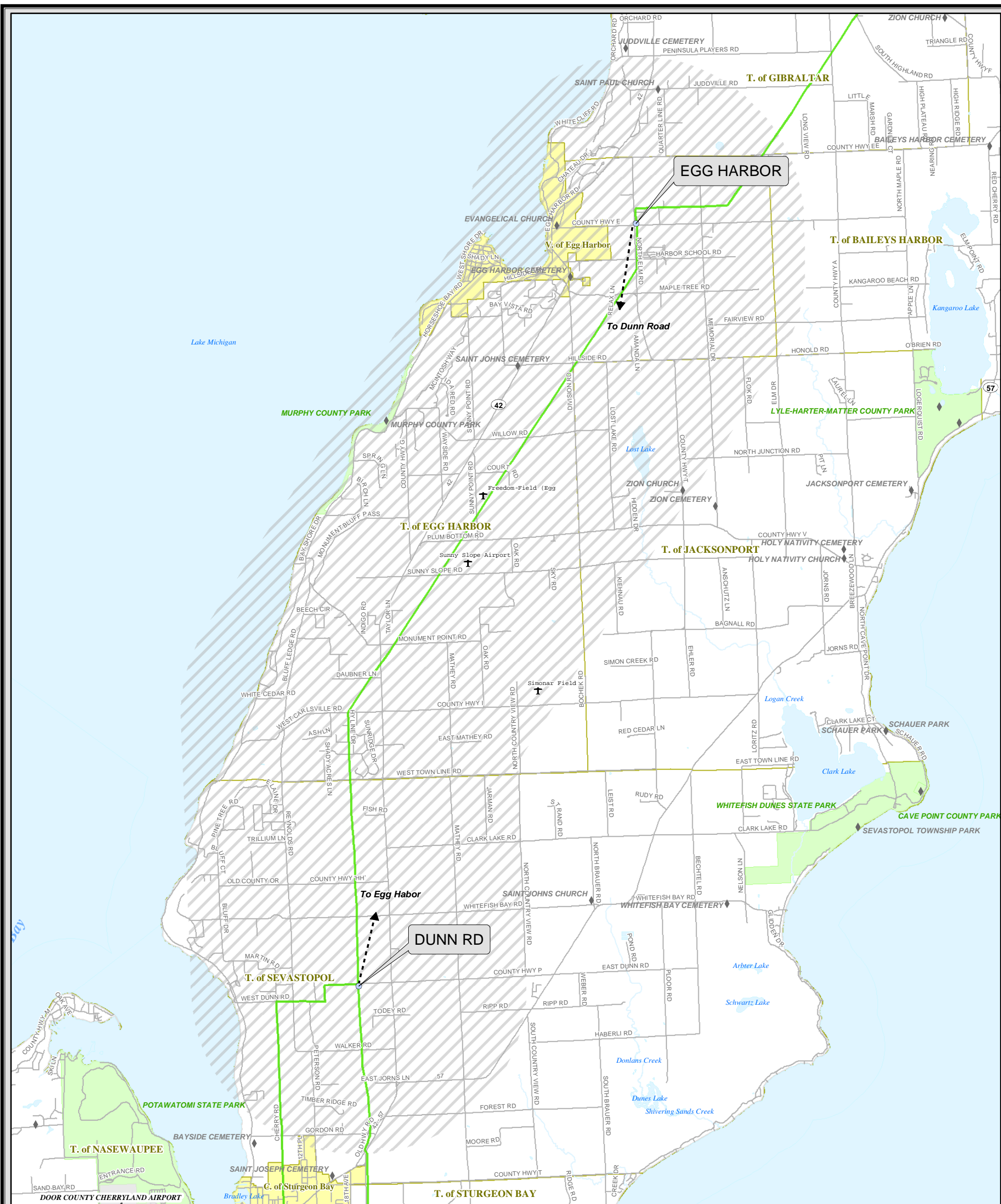
- 69 kV**
- Single Circuit
- Double Circuit
- Underground
- 138 kV**
- Single Circuit
- Double Circuit
- Underground

- ◆ Public Sites
 - Park Areas
 - ▨ Preliminary Screening Area
 - Open Water
 - City or Village
 - Town Boundary
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

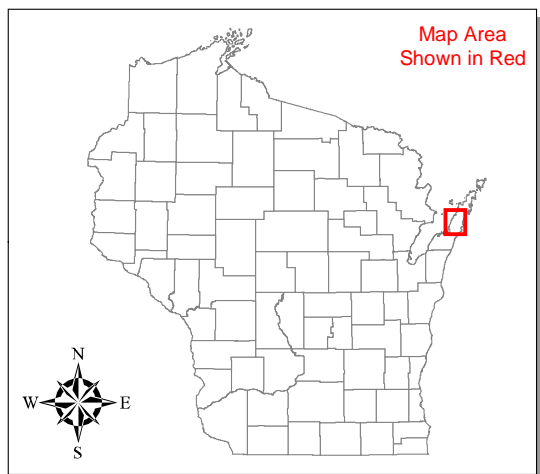


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 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct a Second Dunn Rd-Egg Harbor 69 kV Line



Transmission Facilities

- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| 138 kV | ■ Generation |
| — Single Circuit | ■ Muni or Distribution |
| — Double Circuit | ■ Design or Construction |

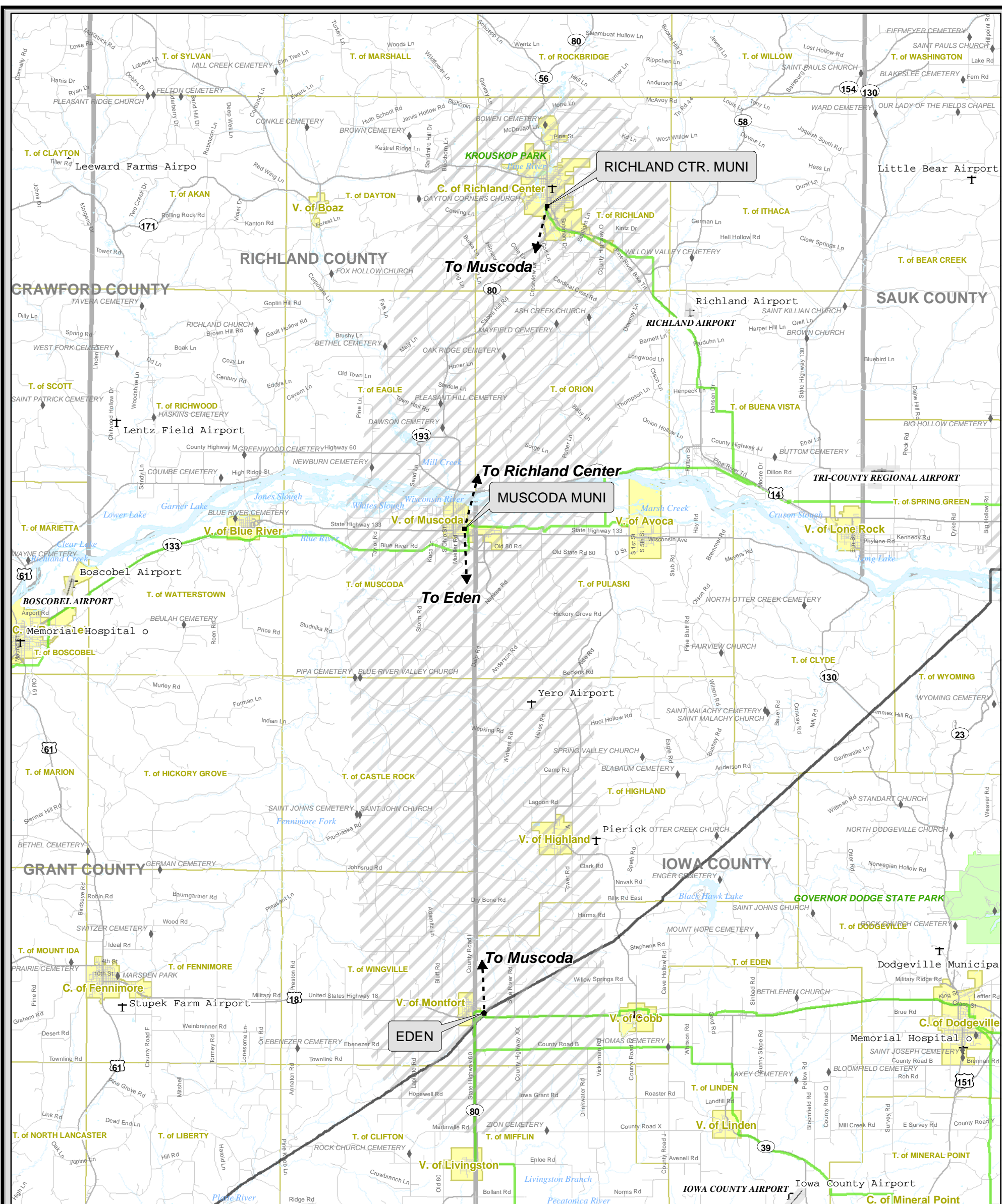
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|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ● City or Village |
| ○ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

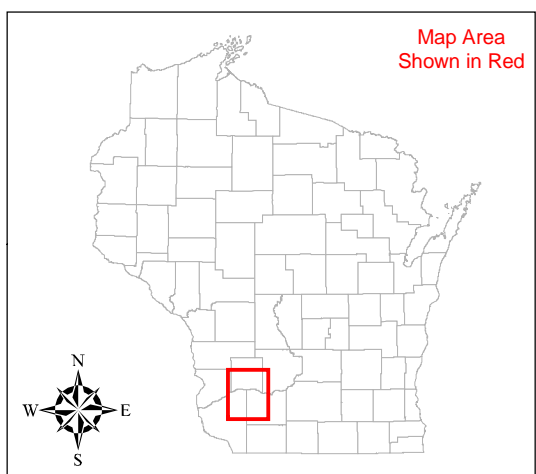


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Eden through Muscoda to Richland Center 69 kV Line



Transmission Facilities

Transmission Lines *

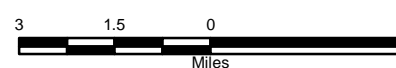
- 69 kV
- Single Circuit
- Double Circuit
- 138 kV
- Single Circuit
- Double Circuit

Transmission Sites

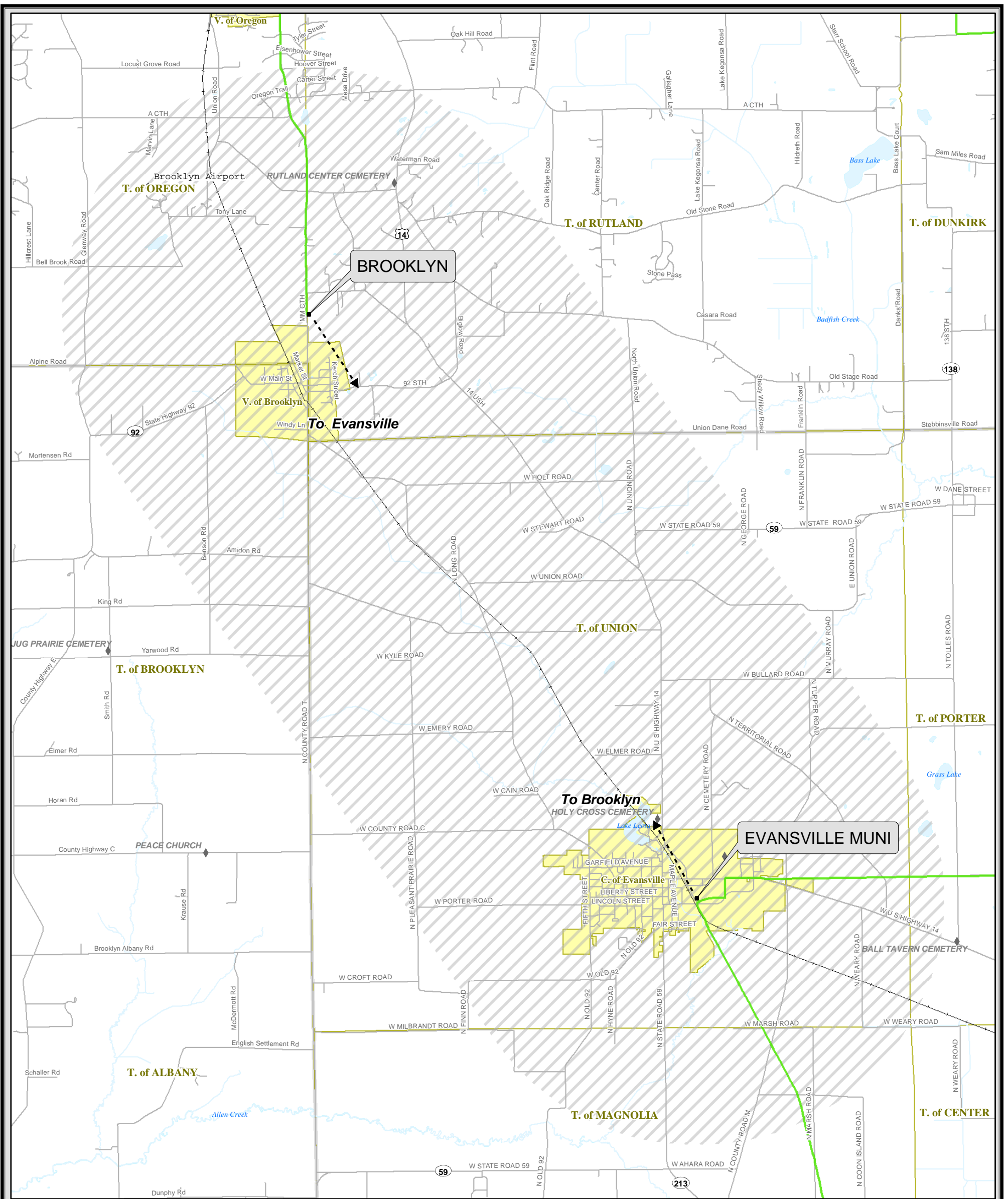
- ATC Owned
- Joint Owned - Conveyed
- Joint Owned - Retained
- Generation
- Muni or Distribution
- Design or Construction

- Public Sites
- Open Water
- Park Areas
- City or Village
- Preliminary Screening Area
- Town Boundary

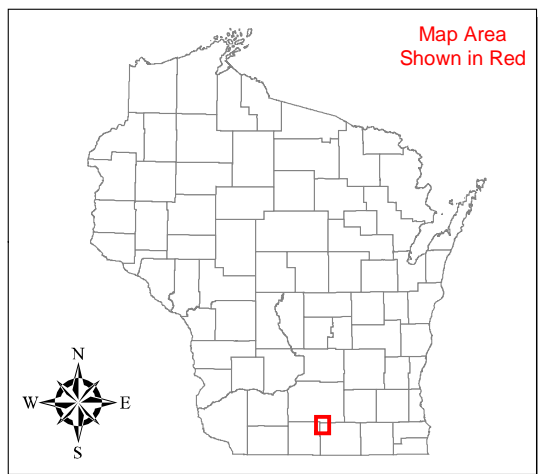
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.



PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Evansville-Brooklyn 69 kV Line

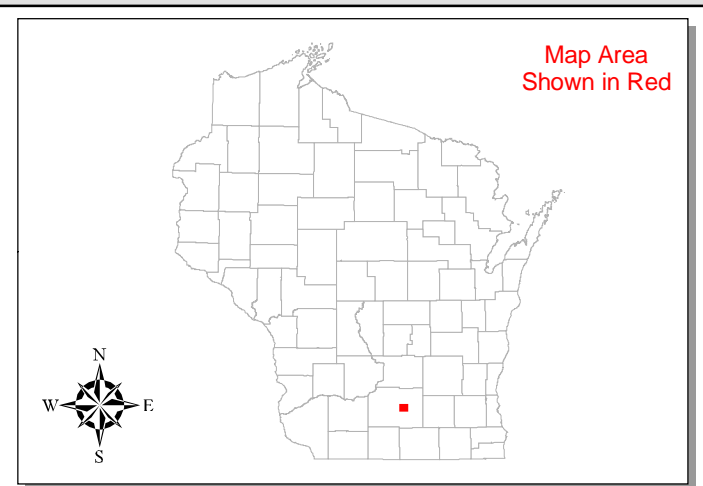
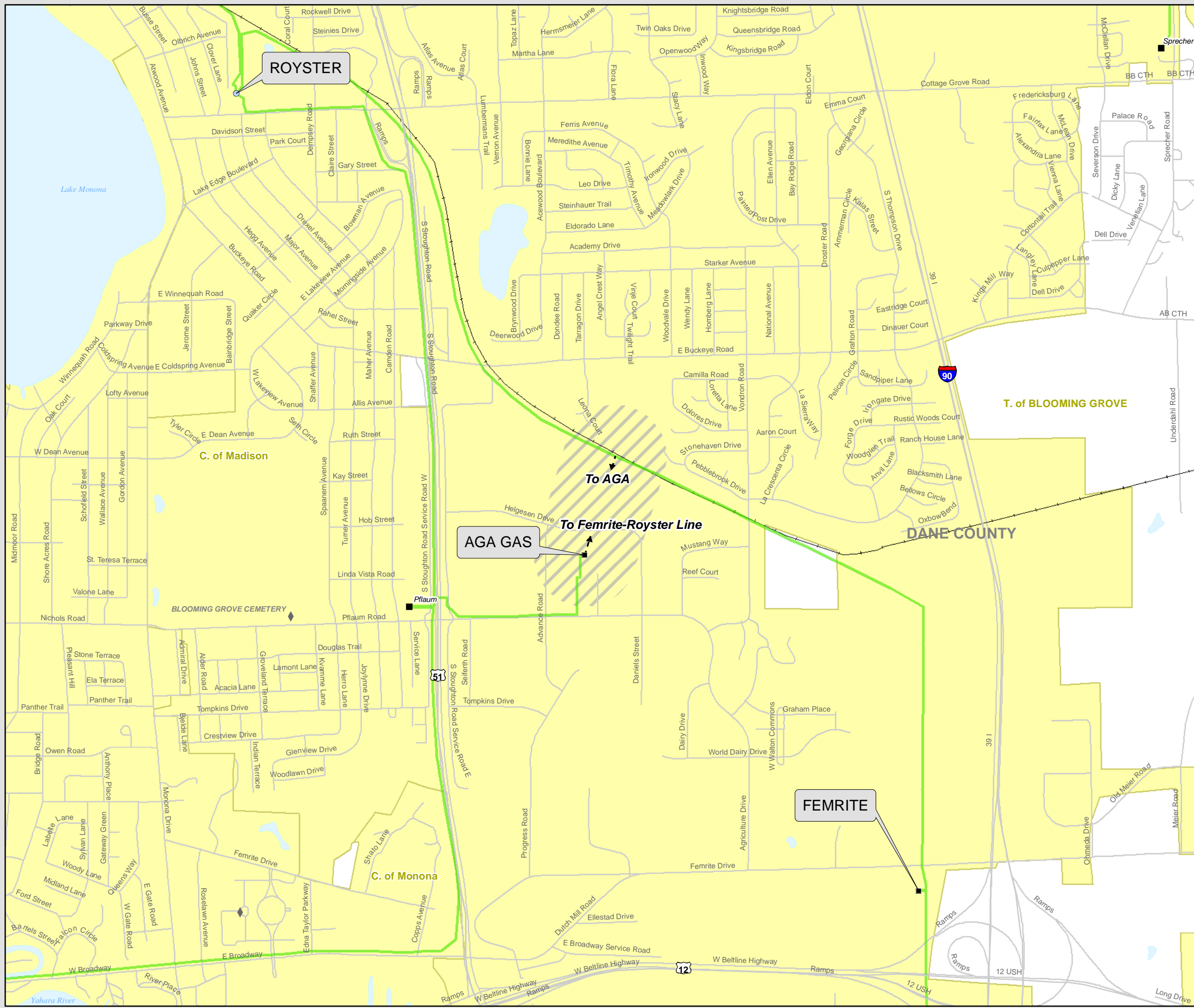


- Transmission Facilities**
- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| 138 kV | ☐ Generation |
| — Single Circuit | ■ Muni or Distribution |
| — Double Circuit | ■ Design or Construction |

- | | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ● City or Village |
| ⊘ Preliminary Screening Area | ○ Town Boundary |
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.
- 0 0.5 1 2
Miles
- The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Loop the Femrite to Royster 69 kV Line into AGA Gas



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◆ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

69 kV

- Single Circuit
- Double Circuit
- Underground

138 kV

- Single Circuit
- Double Circuit
- Underground

Legend

- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

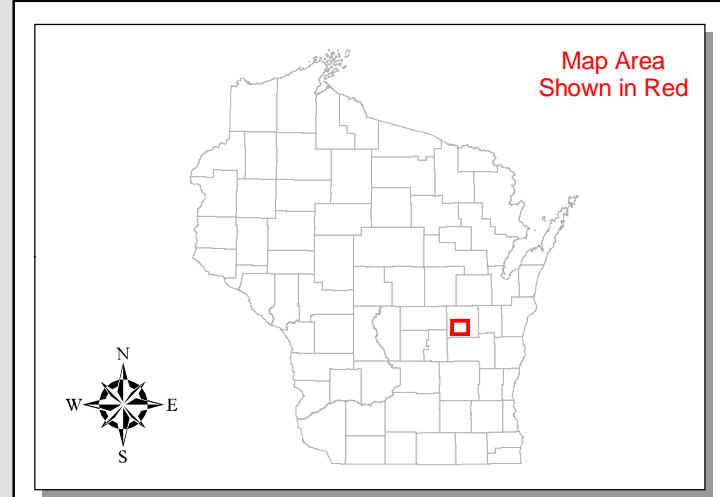
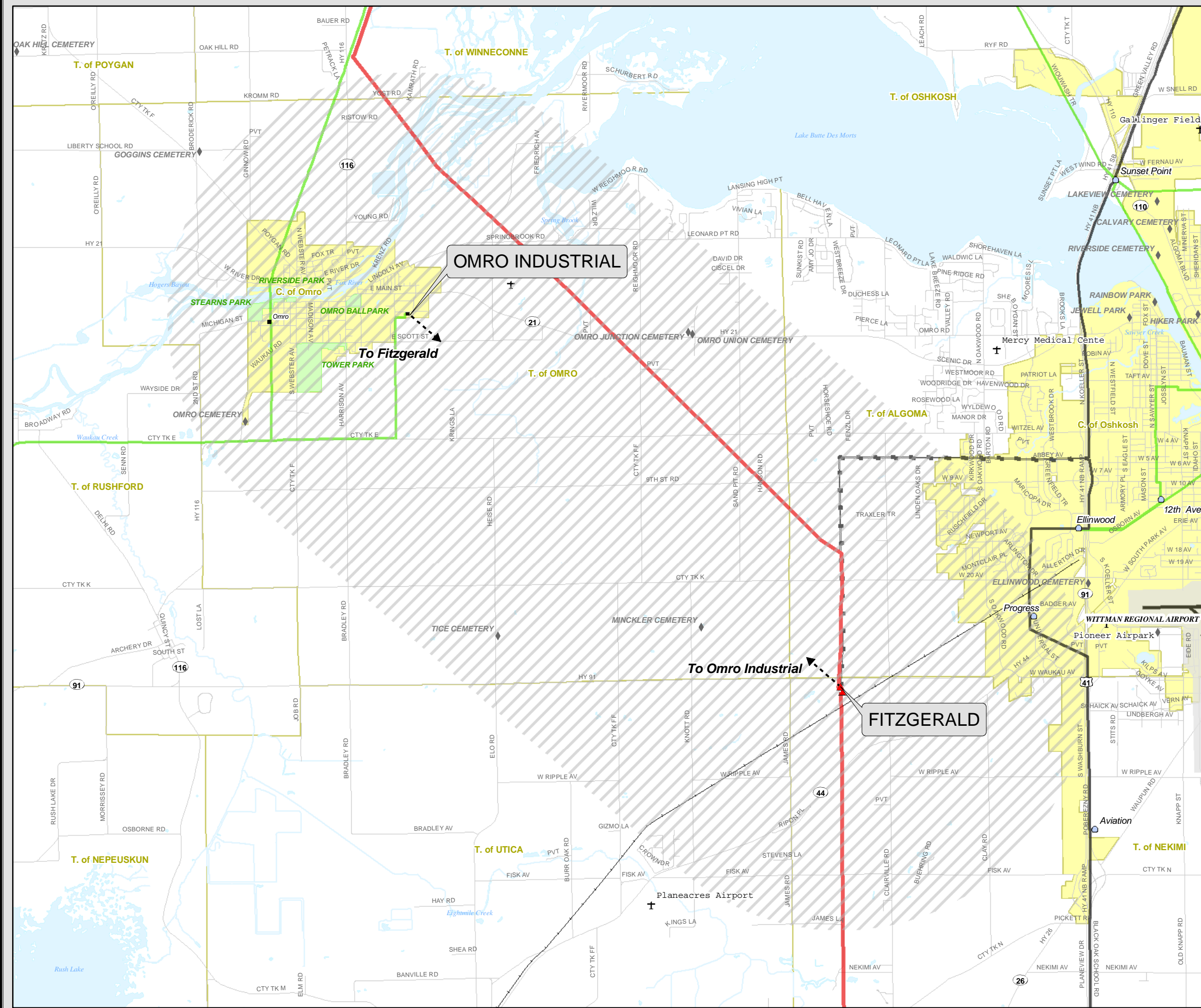
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

2,000 1,000 0 2,000
Feet

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



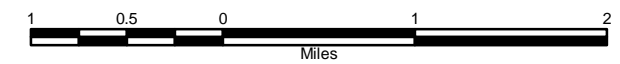
PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Fitzgerald-Omro Industrial 69 kV Line



Transmission Facilities

| | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| Single Circuit | ● Joint Owned - Conveyed |
| Double Circuit | ● Joint Owned - Retained |
| Underground | ■ Generation |
| 138 kV | ■ Muni or Distribution |
| Single Circuit | ■ Design or Construction |
| Double Circuit | |
| Underground | |
| 345 kV | |
| Single Circuit | |
| Double Circuit | |

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ● Open Water |
| ● Park Areas | ● City or Village |
| ● Preliminary Screening Area | ● Town Boundary |



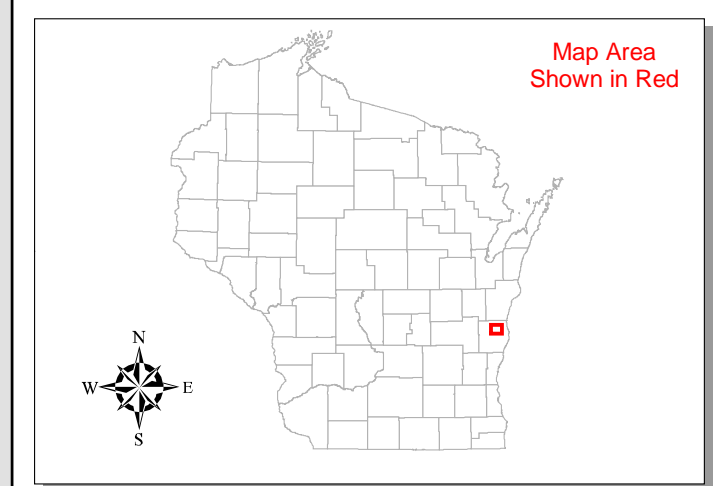
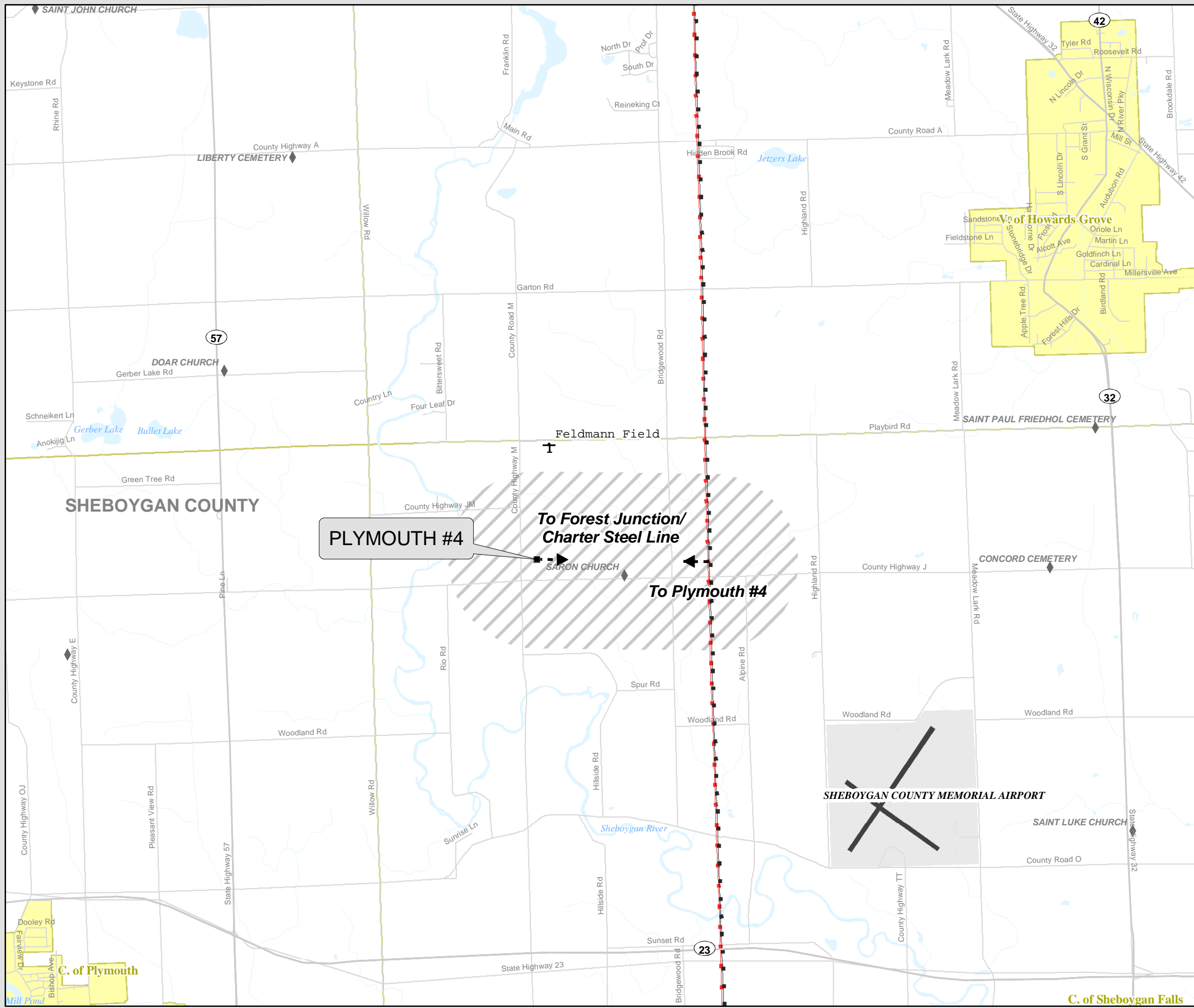
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Double Circuit 138 kV Line from Forest Junction / Charter Steel to Plymouth #4



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◊ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

69 kV

- Single Circuit
- Double Circuit
- Underground

138 kV

- Single Circuit
- Double Circuit
- Underground

345 kV

- Single Circuit
- Double Circuit

Legend:

- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

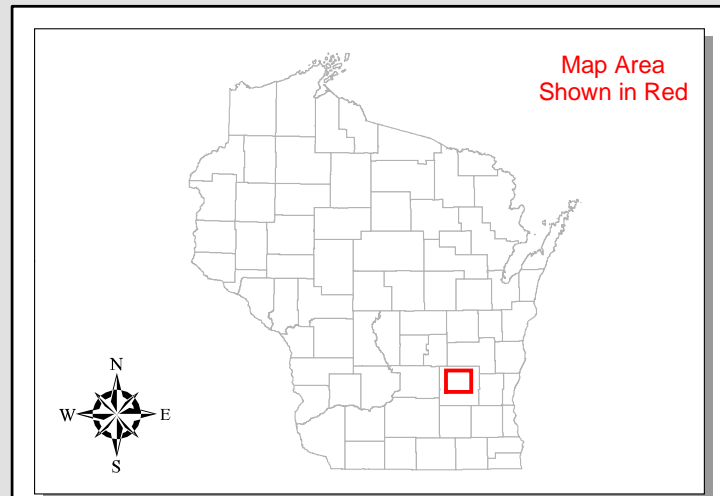
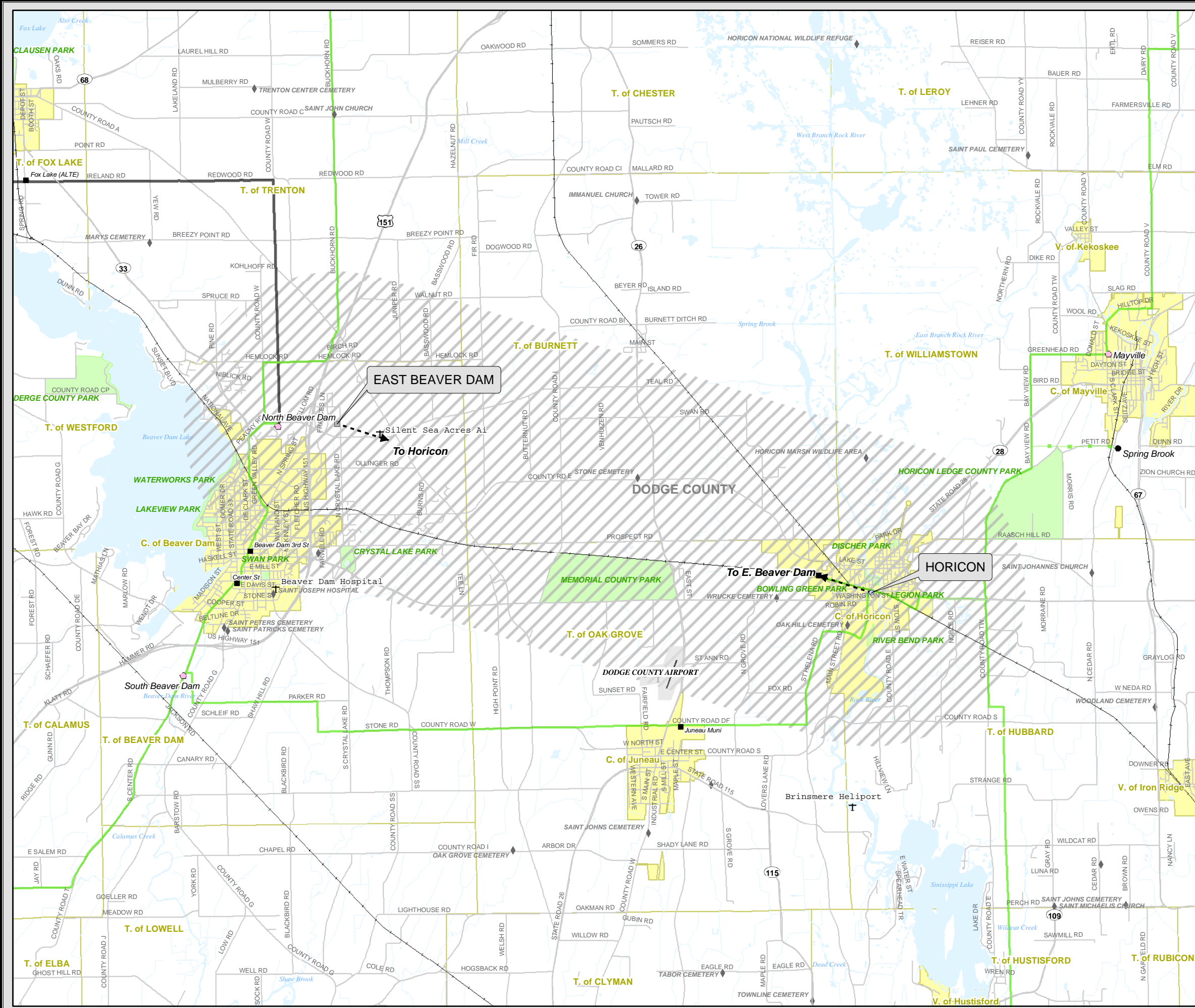
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

1 0.5 0 1 Miles

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Horicon to East Beaver Dam 138 kV Line



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◆ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

- 69 kV
 - Single Circuit
 - - Double Circuit
 - - - Underground
- 138 kV
 - Single Circuit
 - - Double Circuit
 - - - Underground

Legend

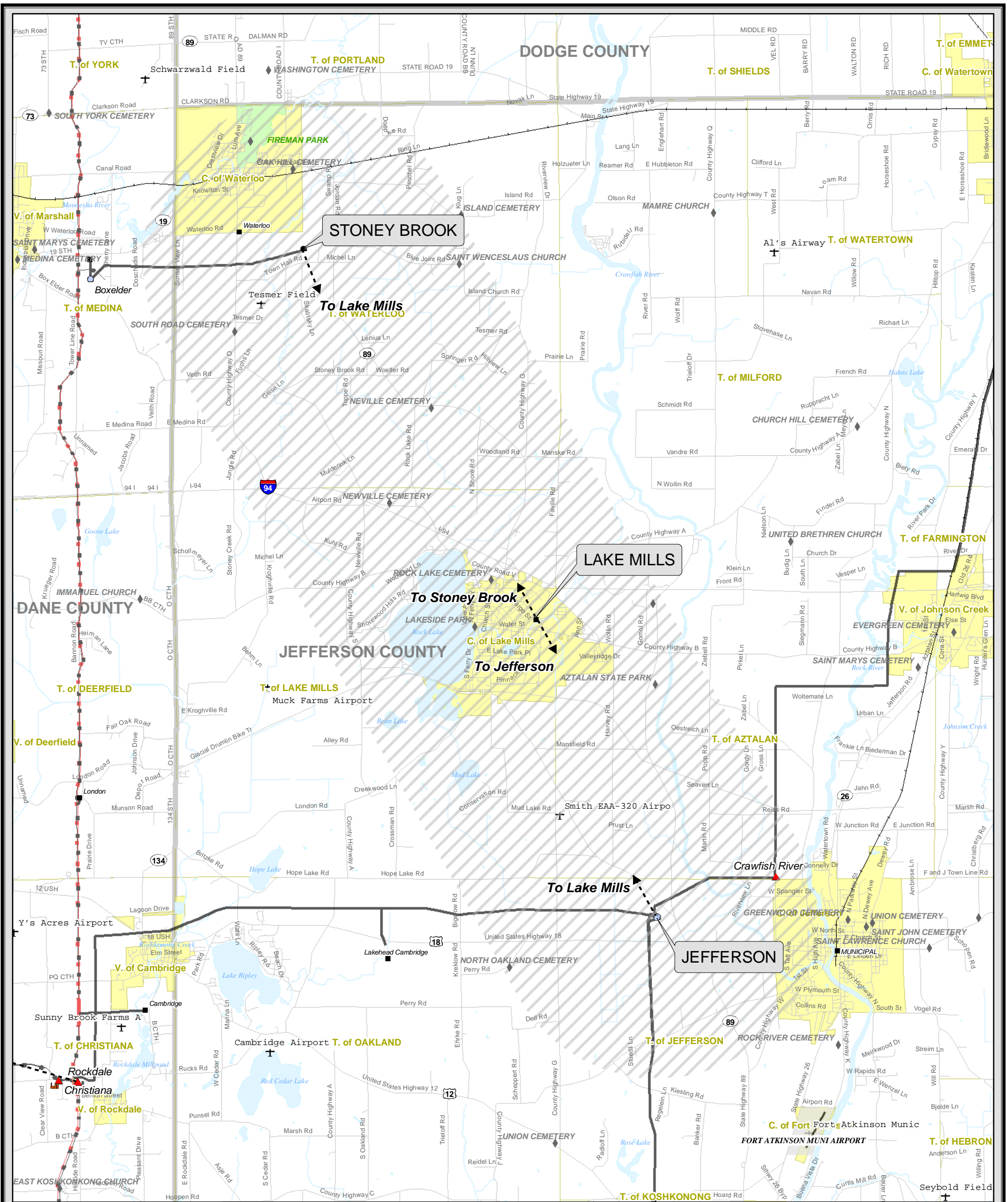
- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

2 1 0 2
Miles

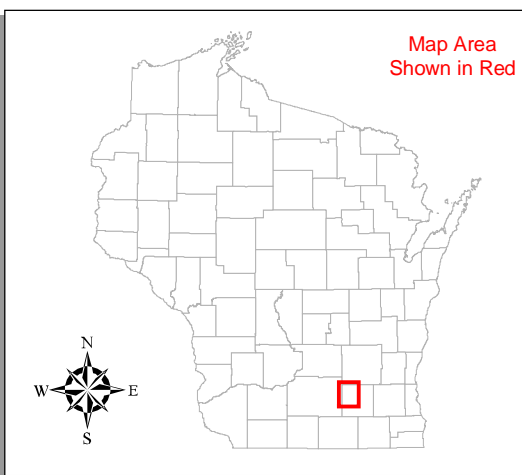
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY

Construct Jefferson to Lake Mills to Stoney Brook 138 kV Line



Map Area Shown in Red

Transmission Facilities

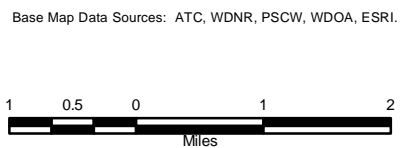
Transmission Lines *

- 138 kV
- Single Circuit
- Double Circuit
- Underground
- 345 kV
- Single Circuit
- Double Circuit

Transmission Sites

- ▲ ATC Owned
- Joint Owned - Conveyed
- Joint Owned - Retained
- Generation
- Muni or Distribution
- Design or Construction

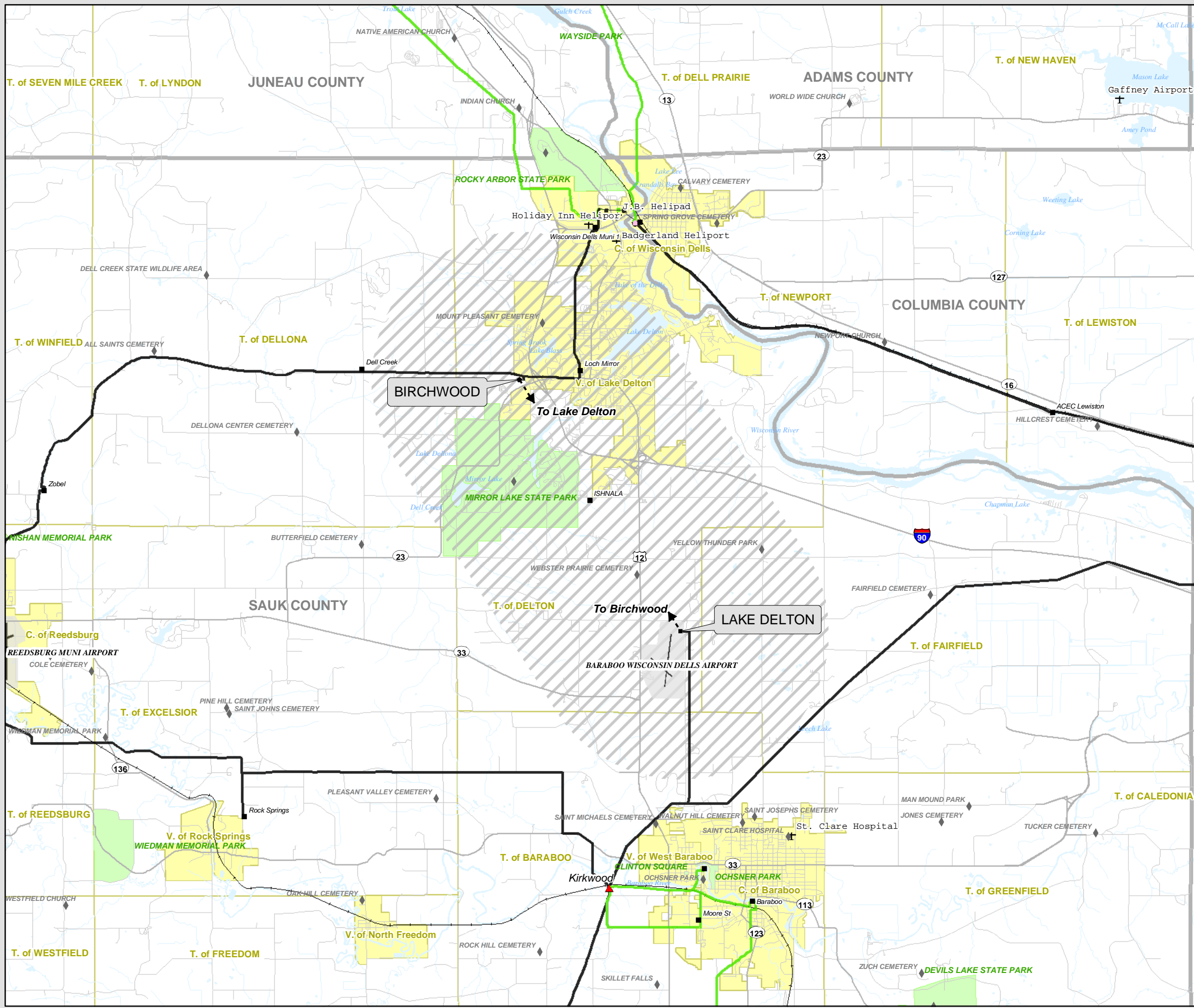
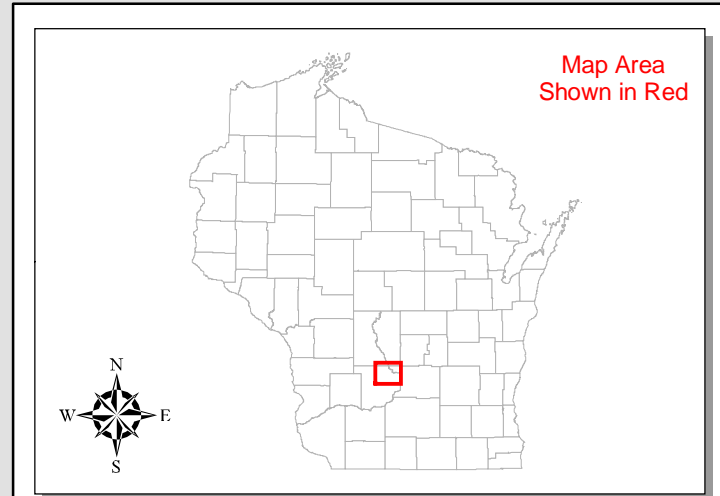
- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary



The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Lake Delton to Birchwood 138 kV Line



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◊ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

69 kV

- Single Circuit
- Double Circuit
- Underground

138 kV

- Single Circuit
- Double Circuit
- Underground

Legend

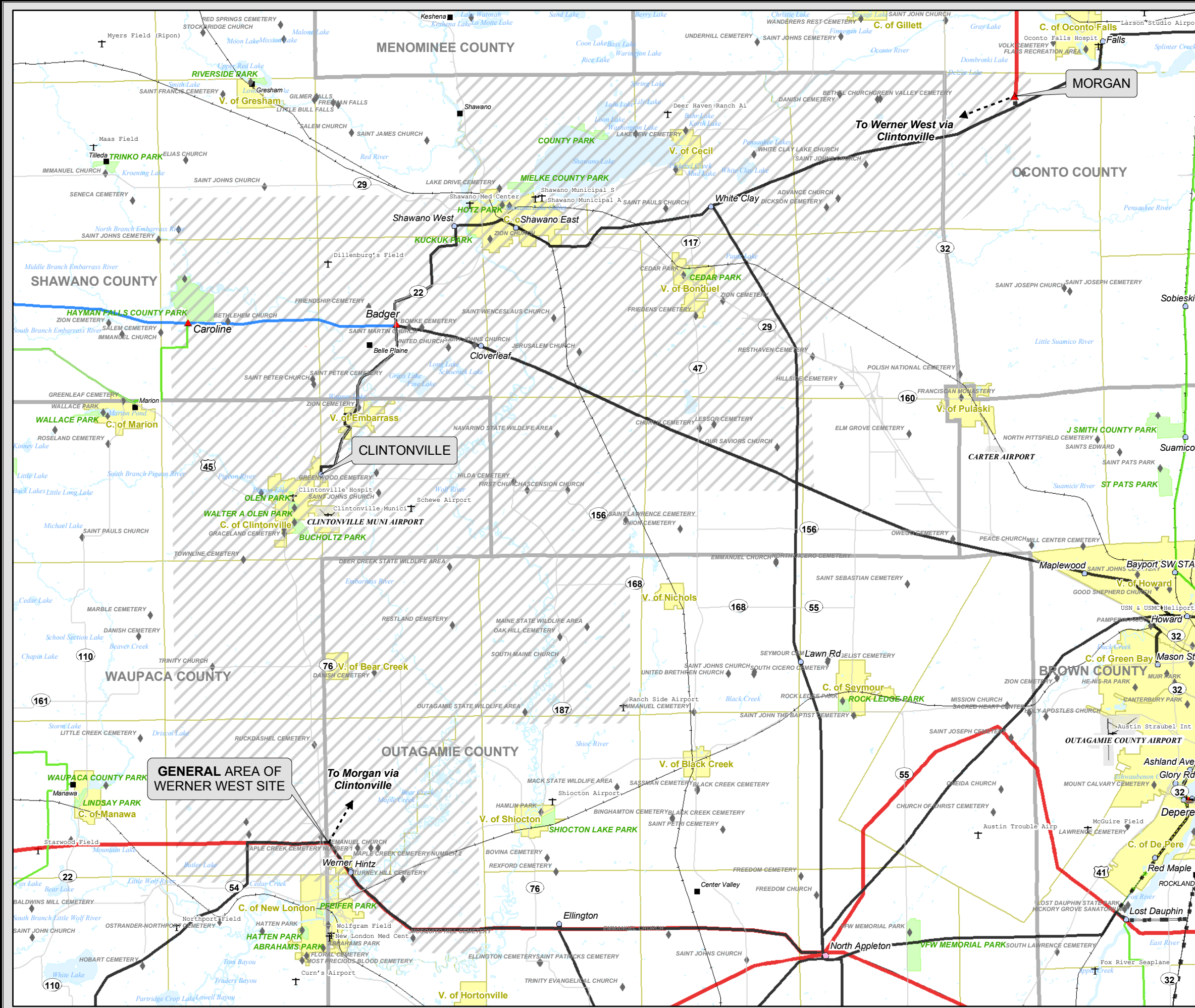
- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

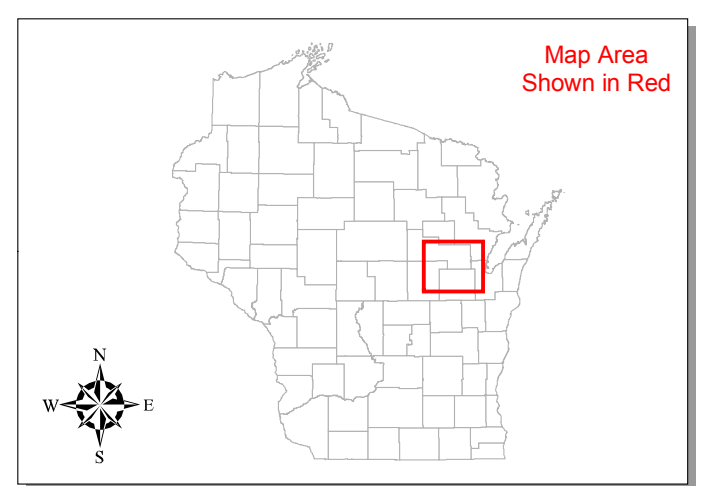
2 1 0 2
Miles

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





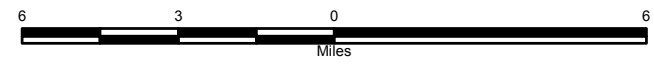
PLANNED TRANSMISSION LINES REQUIRING NEW RIGHT-OF-WAY
 Construct Morgan to Werner West 345 kV Line and
 String Clintonville to Werner West 138 kV Line
 Primarily on Morgan to Werner West 345 kV Line



Transmission Facilities

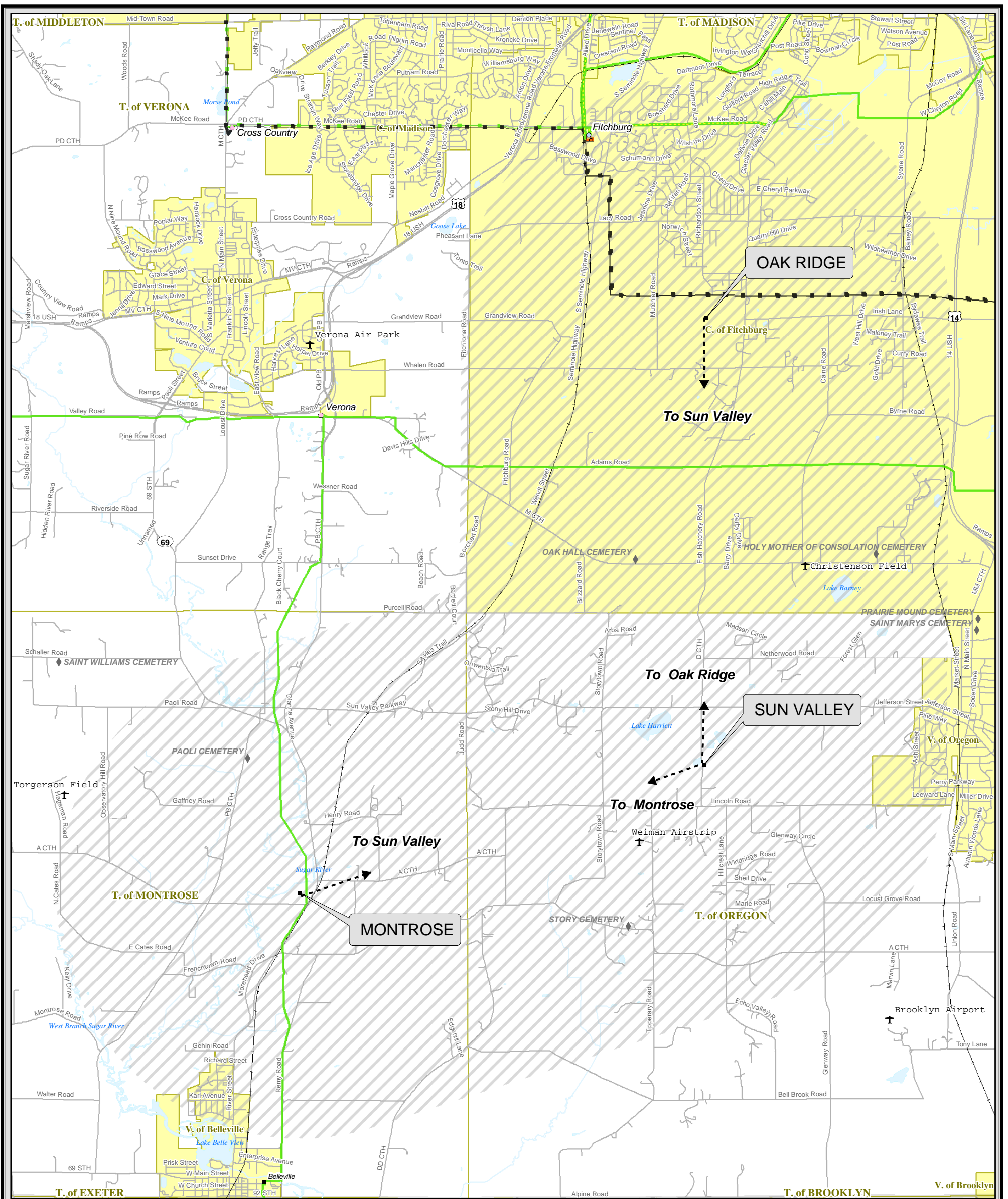
- Transmission Sites**
- ▲ ATC Owned
 - ◆ Joint Owned - Conveyed
 - Joint Owned - Retained
 - Muni or Distribution
 - Design or Construction
 - Proposed Distribution Substation
- Transmission Lines**
- | | |
|------------------|------------------|
| 69 kV | 138 kV |
| — Single Circuit | — Single Circuit |
| — Double Circuit | — Double Circuit |
| — Underground | — Underground |
| 115 kV | 345 kV |
| — Single Circuit | — Single Circuit |
| — Double Circuit | — Double Circuit |

- ◆ Public Sites
 - Park Areas
 - ▨ Preliminary Screening Area
 - Open Water
 - City or Village
 - Town Boundary
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

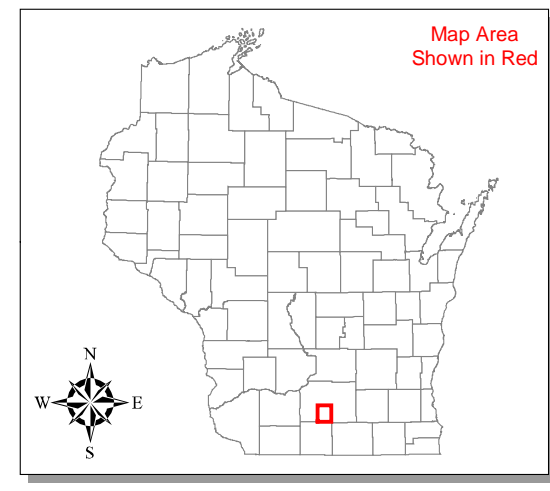


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 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct New Montrose-Sun Valley-Oak Ridge 138 kV Line



- ### Transmission Facilities
- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| 138 kV | ☐ Generation |
| — Single Circuit | ■ Muni or Distribution |
| — Double Circuit | ■ Design or Construction |

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ■ City or Village |
| ⊘ Preliminary Screening Area | ○ Town Boundary |

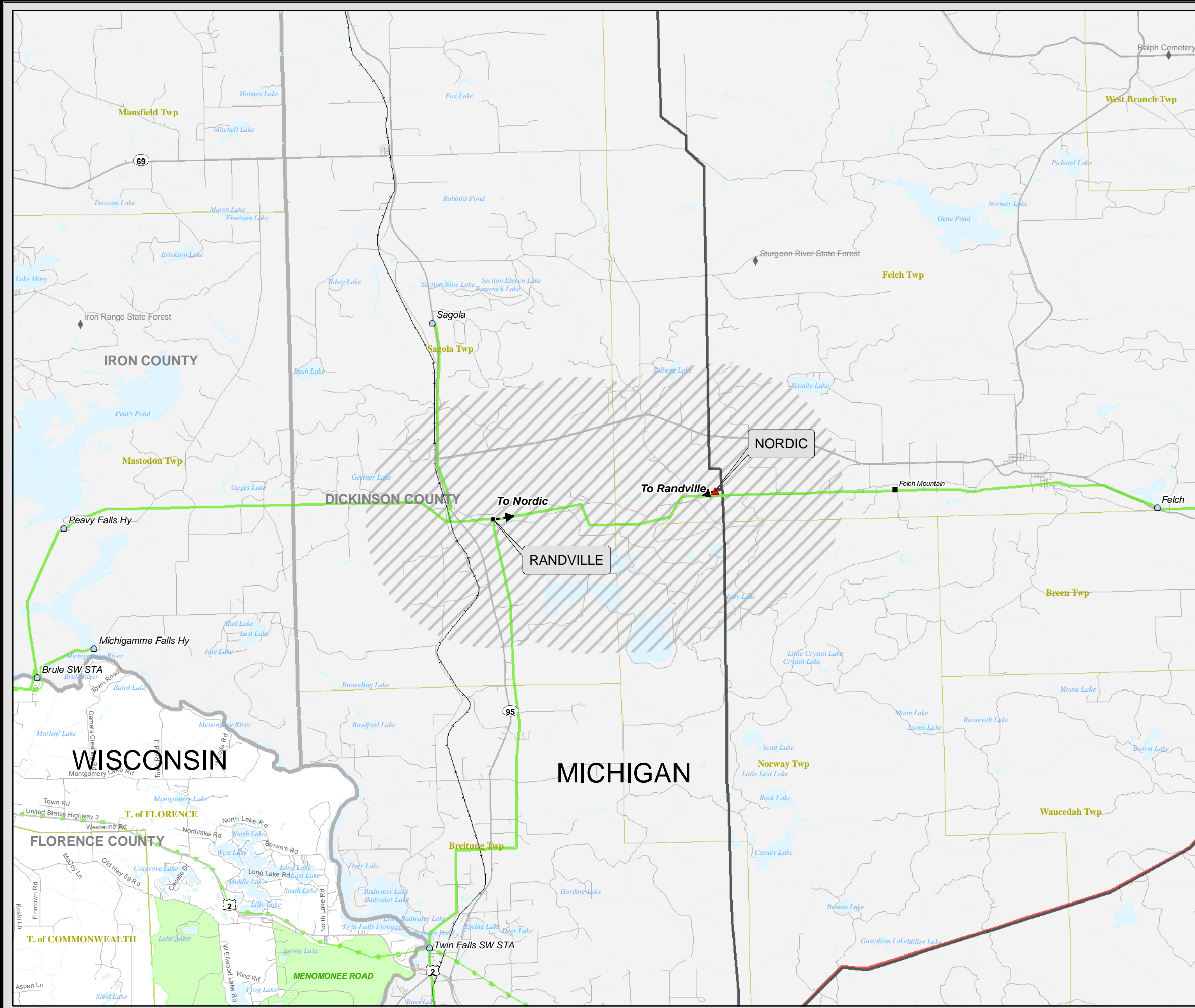
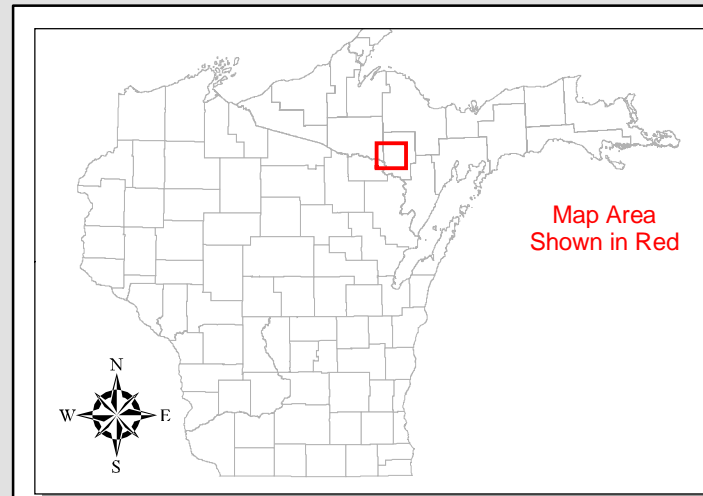
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

0 0.5 1 2
Miles

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY

Rebuild Nordic to Randville from Single Circuit 69 kV to Double Circuit 69 kV

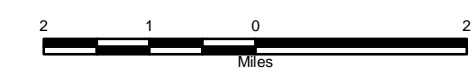


Transmission Facilities

- Transmission Sites**
- ▲ ATC Owned
 - ◆ Joint Owned - Conveyed
 - Joint Owned - Retained
 - Muni or Distribution
 - Design or Construction
 - Proposed Distribution Substation
- Transmission Lines**
- 69 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 138 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 345 kV**
- Single Circuit
 - Double Circuit

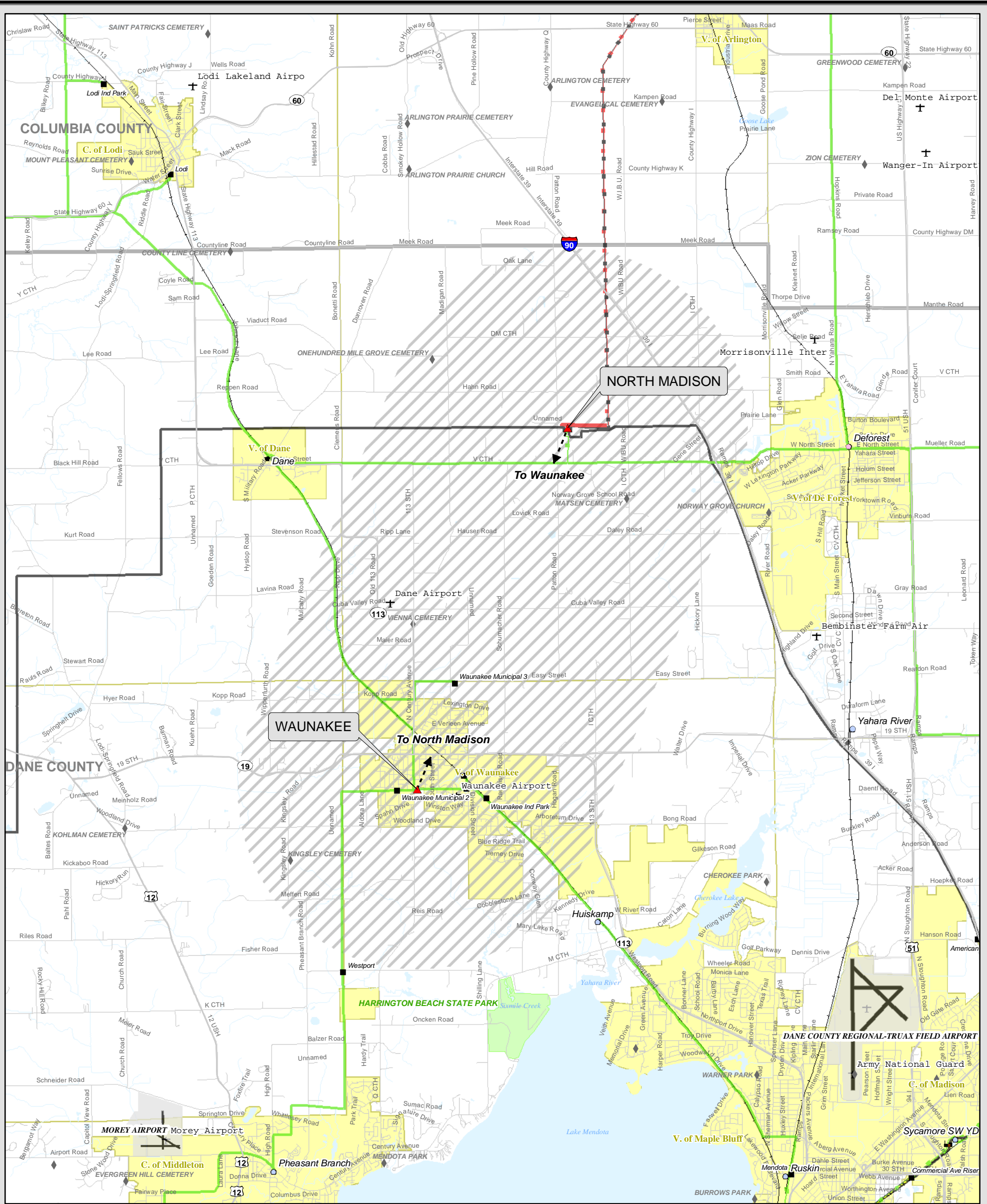
- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

Base Map Data Sources: ATC, WDNR, PSCW, MI CGI, WDOA, ESRI, USGS.

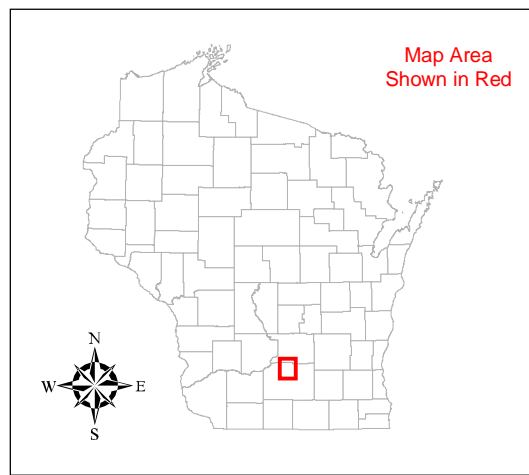


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 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct North Madison to Waunakee
 138 kV Line

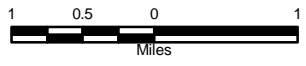


Transmission Facilities

- | | |
|---|---|
| <p>Transmission Lines *</p> <ul style="list-style-type: none"> — 69 kV Single Circuit = 69 kV Double Circuit — 69 kV Underground — 138 kV Single Circuit = 138 kV Double Circuit — 138 kV Underground — 345 kV Single Circuit = 345 kV Double Circuit <p><small>* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.</small></p> | <p>Transmission Sites</p> <ul style="list-style-type: none"> ▲ ATC Owned ◆ Joint Owned - Conveyed ● Joint Owned - Retained ■ Muni or Distribution ■ Design or Construction |
|---|---|

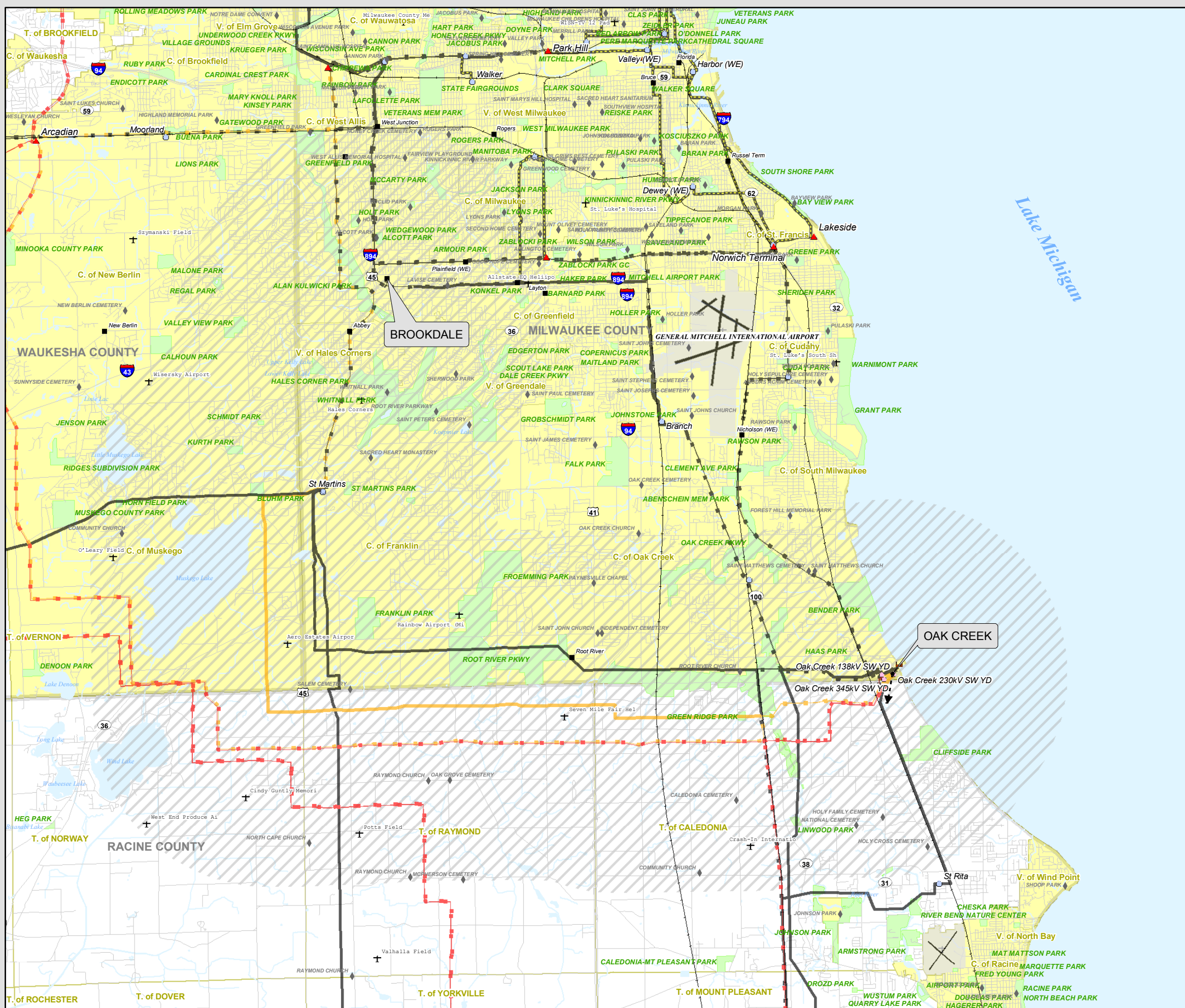
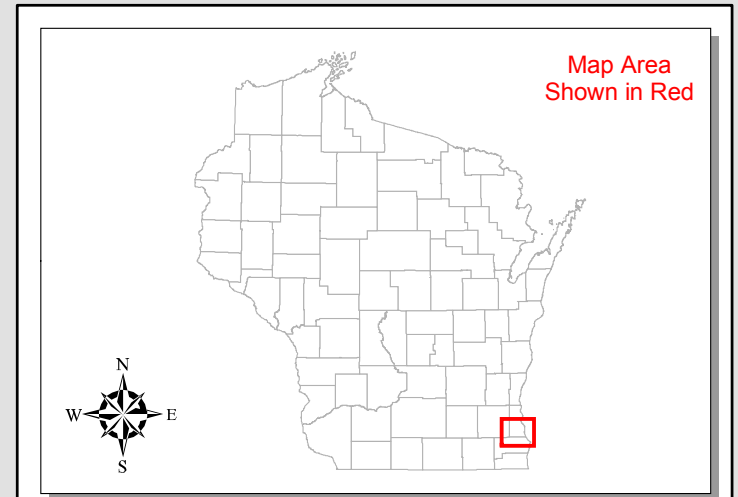
- | | |
|--|---|
| ◆ Public Sites | ○ Open Water |
| ○ Park Areas | ○ City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



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PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Oak Creek to Brookdale 345 kV Line



Transmission Facilities

- | | |
|---|---|
| Transmission Lines * | Transmission Sites |
| <ul style="list-style-type: none"> 138 kV Single Circuit Double Circuit Underground | <ul style="list-style-type: none"> ▲ ATC Owned ◆ Joint Owned - Conveyed ● Joint Owned - Retained ■ Generation ■ Muni or Distribution ■ Design or Construction |
| <ul style="list-style-type: none"> 230 kV Single Circuit Double Circuit | |
| <ul style="list-style-type: none"> 345 kV Single Circuit Double Circuit | |

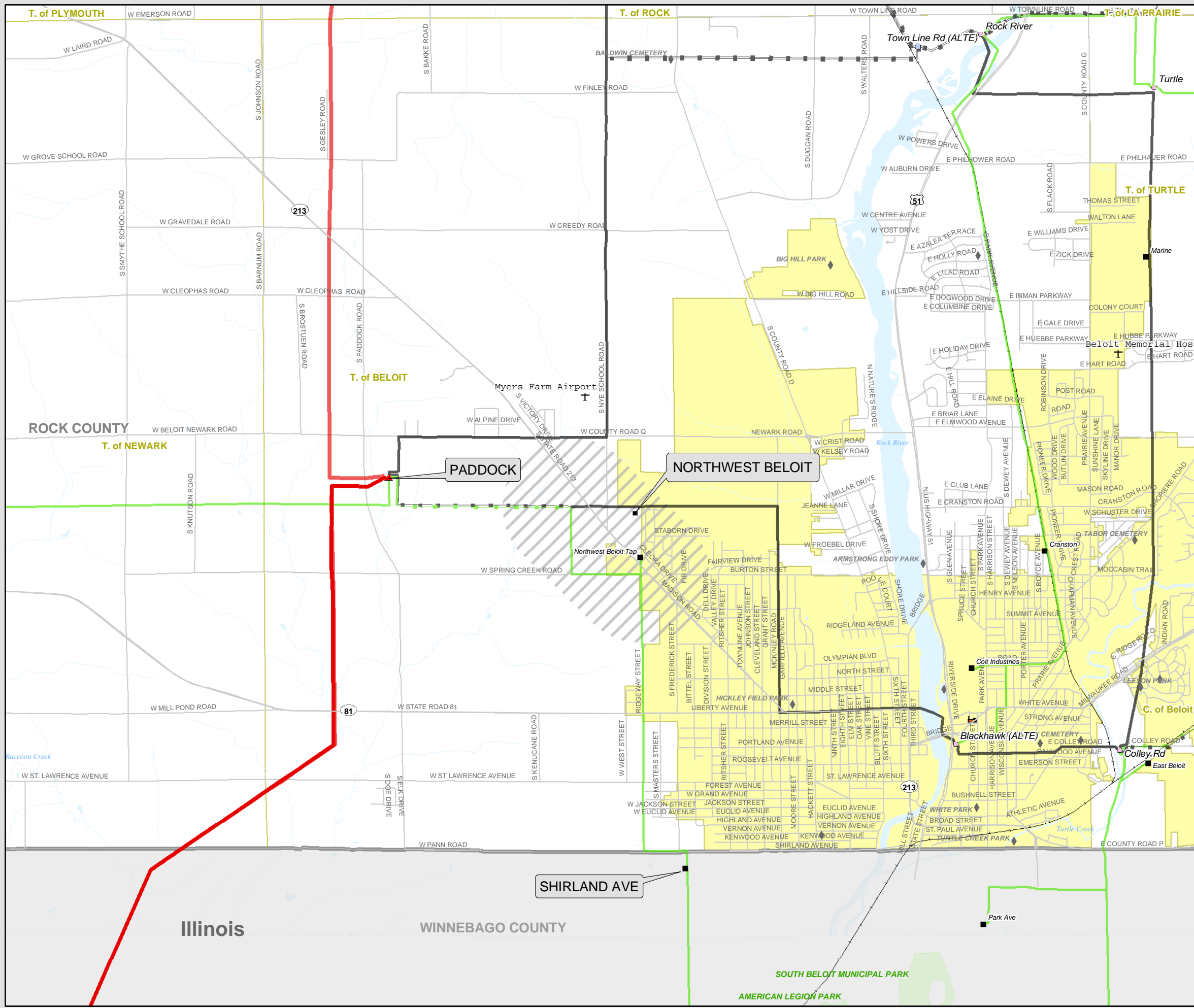
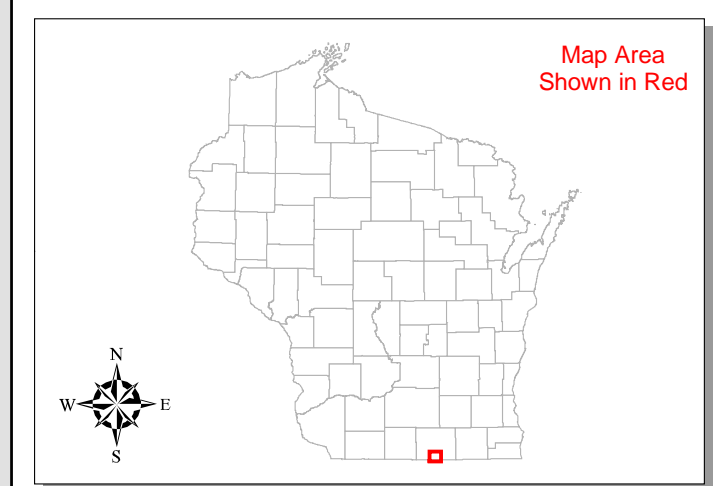
- | | |
|------------------------------|-------------------|
| ◆ Public Sites | ● Open Water |
| ● Park Areas | ● City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



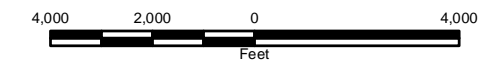
PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
*Reroute Paddock to Shirland Avenue
 69 kV Line into and out of Northwest Beloit*



Transmission Facilities

- Transmission Sites**
- ▲ ATC Owned
 - ◊ Joint Owned - Conveyed
 - Joint Owned - Retained
 - Muni or Distribution
 - Design or Construction
 - Proposed Distribution Substation
- Transmission Lines**
- 69 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 138 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 345 kV**
- Single Circuit
 - Double Circuit

- ◆ Public Sites
 - Park Areas
 - ▨ Preliminary Screening Area
 - Open Water
 - City or Village
 - Town Boundary
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

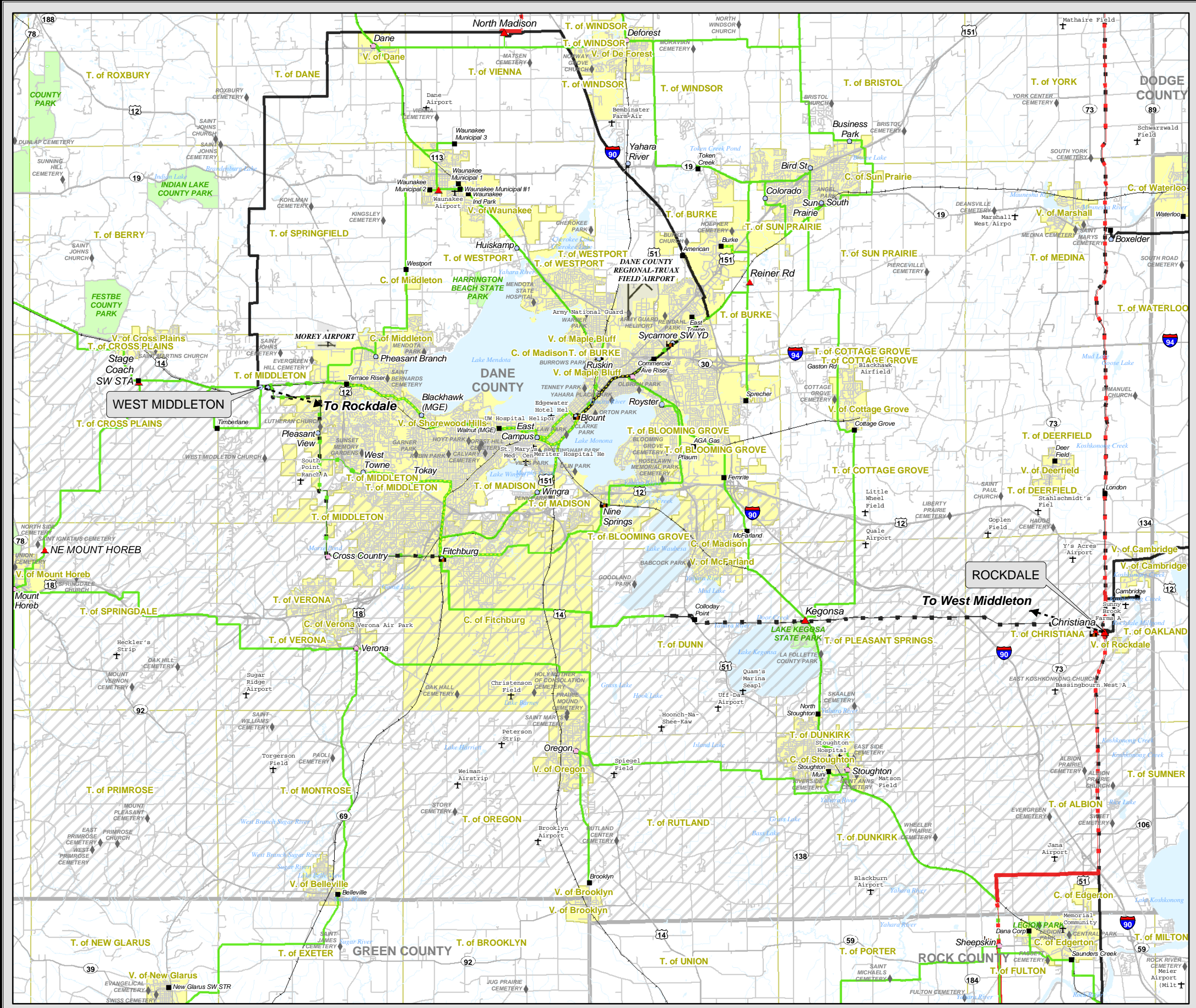
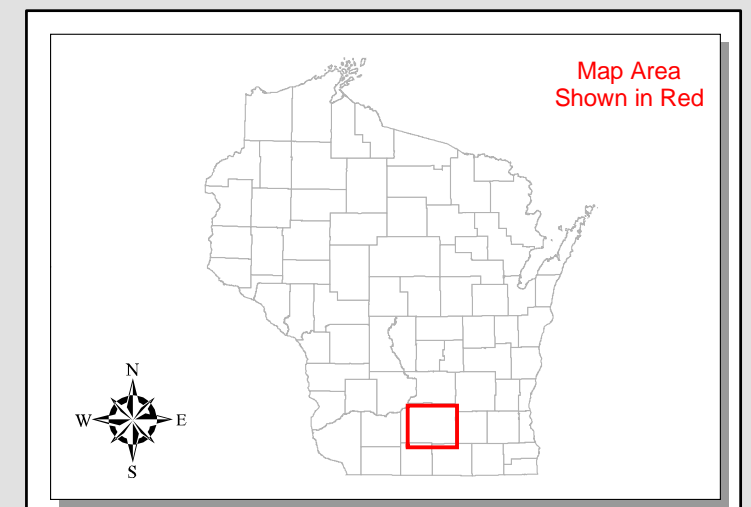


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY

Construct Rockdale to West Middleton 345 kV Line

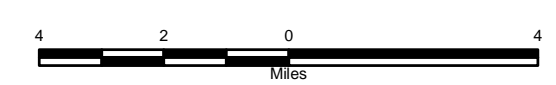


Transmission Facilities

- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV Single Circuit | ▲ ATC Owned |
| 69 kV Double Circuit | ◆ Joint Owned - Conveyed |
| 69 kV Underground | ● Joint Owned - Retained |
| 138 kV Single Circuit | ■ Generation |
| 138 kV Double Circuit | ■ Muni or Distribution |
| 138 kV Underground | ■ Design or Construction |
| 345 kV Single Circuit | |
| 345 kV Double Circuit | |

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ○ City or Village |
| ○ Preliminary Screening Area | ○ Town Boundary |

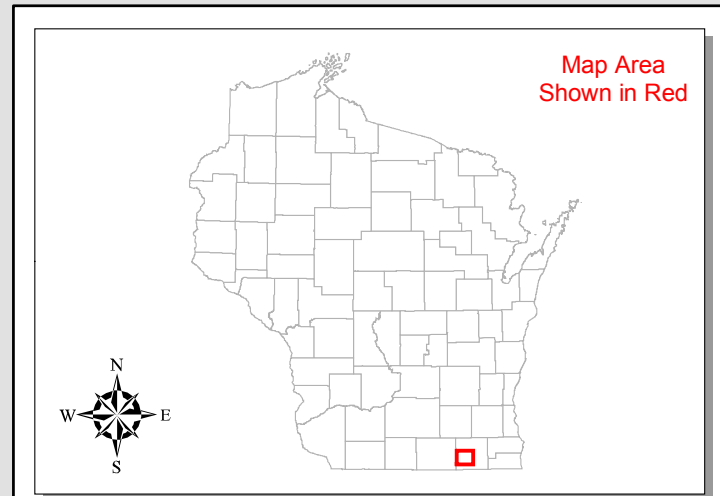
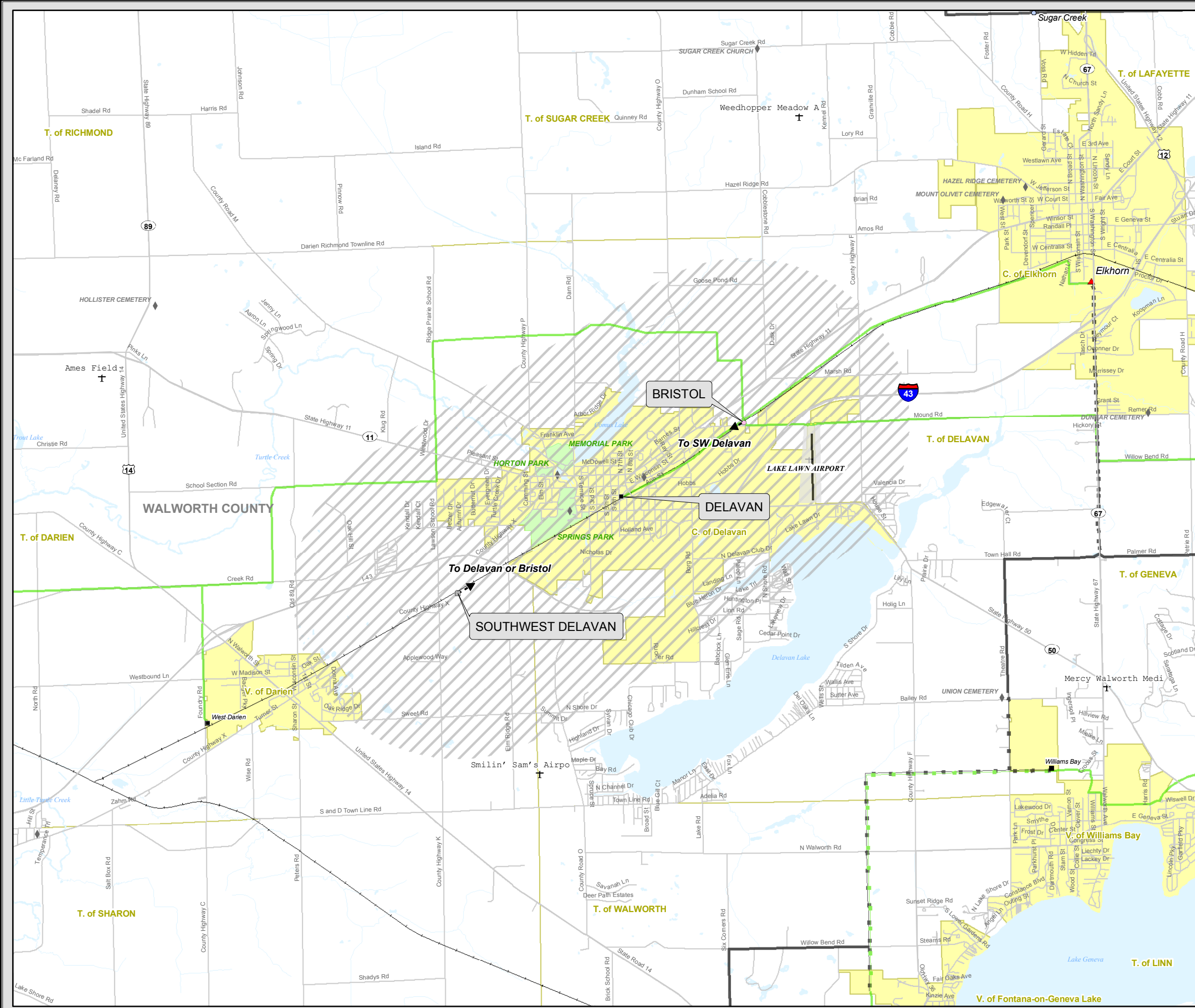
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
*Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Southwest Delavan to Delavan or Bristol
 138 kV Line (Operate at 69 kV)



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◆ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

69 kV

- Single Circuit
- Double Circuit
- Underground

138 kV

- Single Circuit
- Double Circuit
- Underground

345 kV

- Single Circuit
- Double Circuit

Legend:

- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

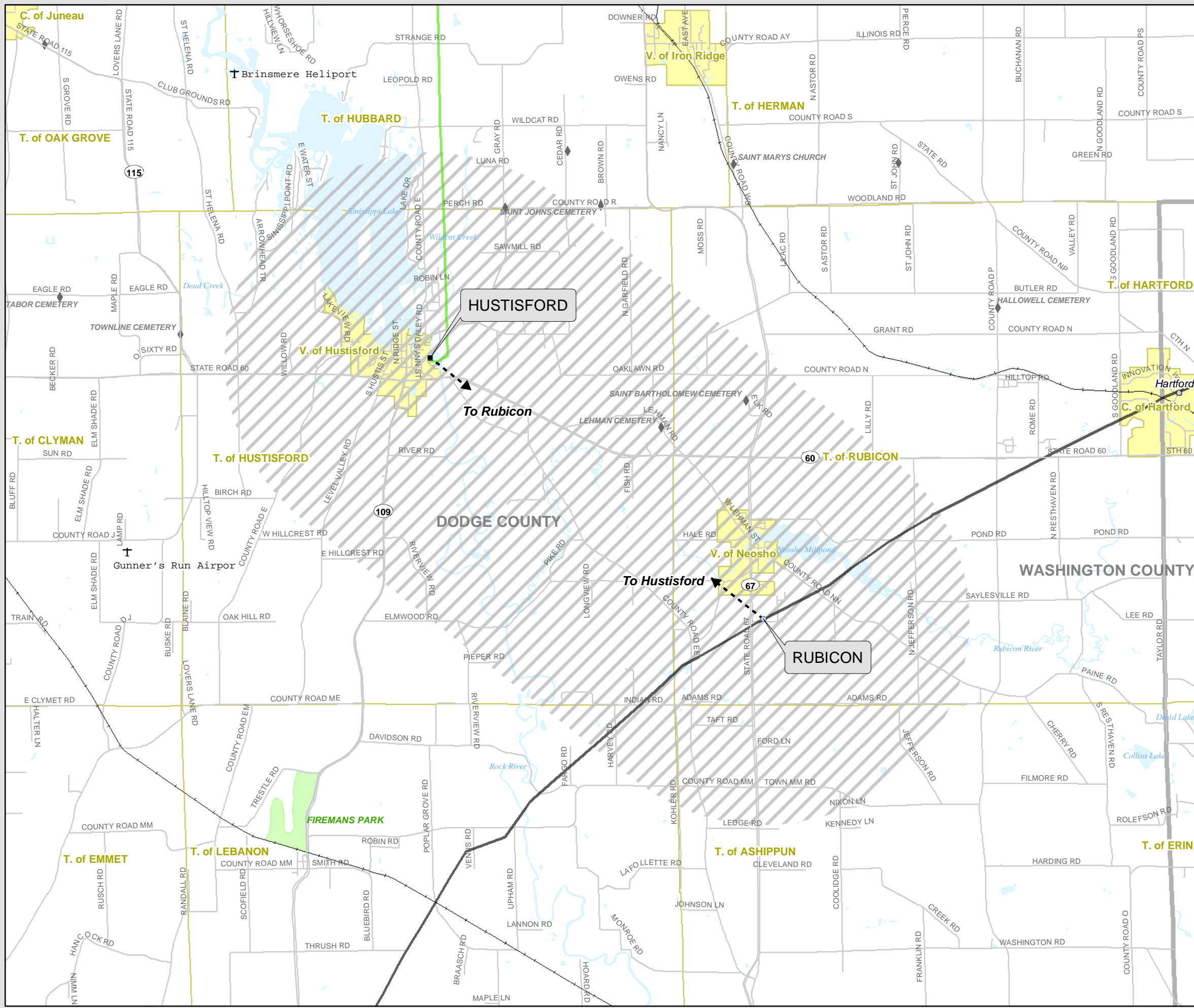
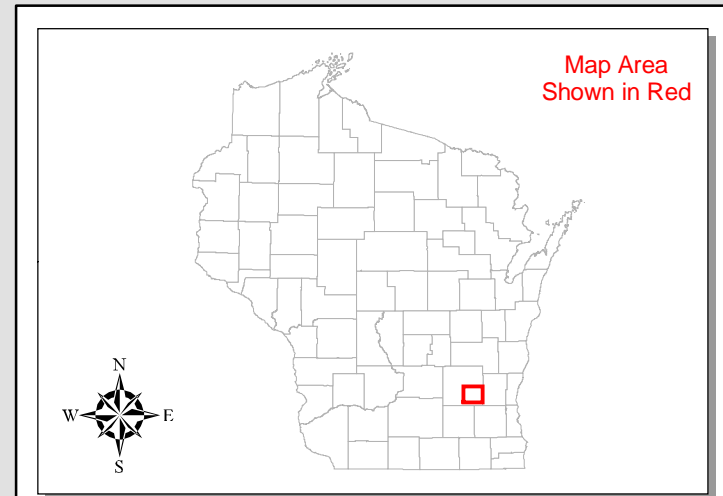
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

4,000 2,000 0 4,000
Feet

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Rubicon to Hustisford 138 kV Line



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◆ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

69 kV

- Single Circuit
- Double Circuit
- Underground

138 kV

- Single Circuit
- Double Circuit
- Underground

Legend

- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

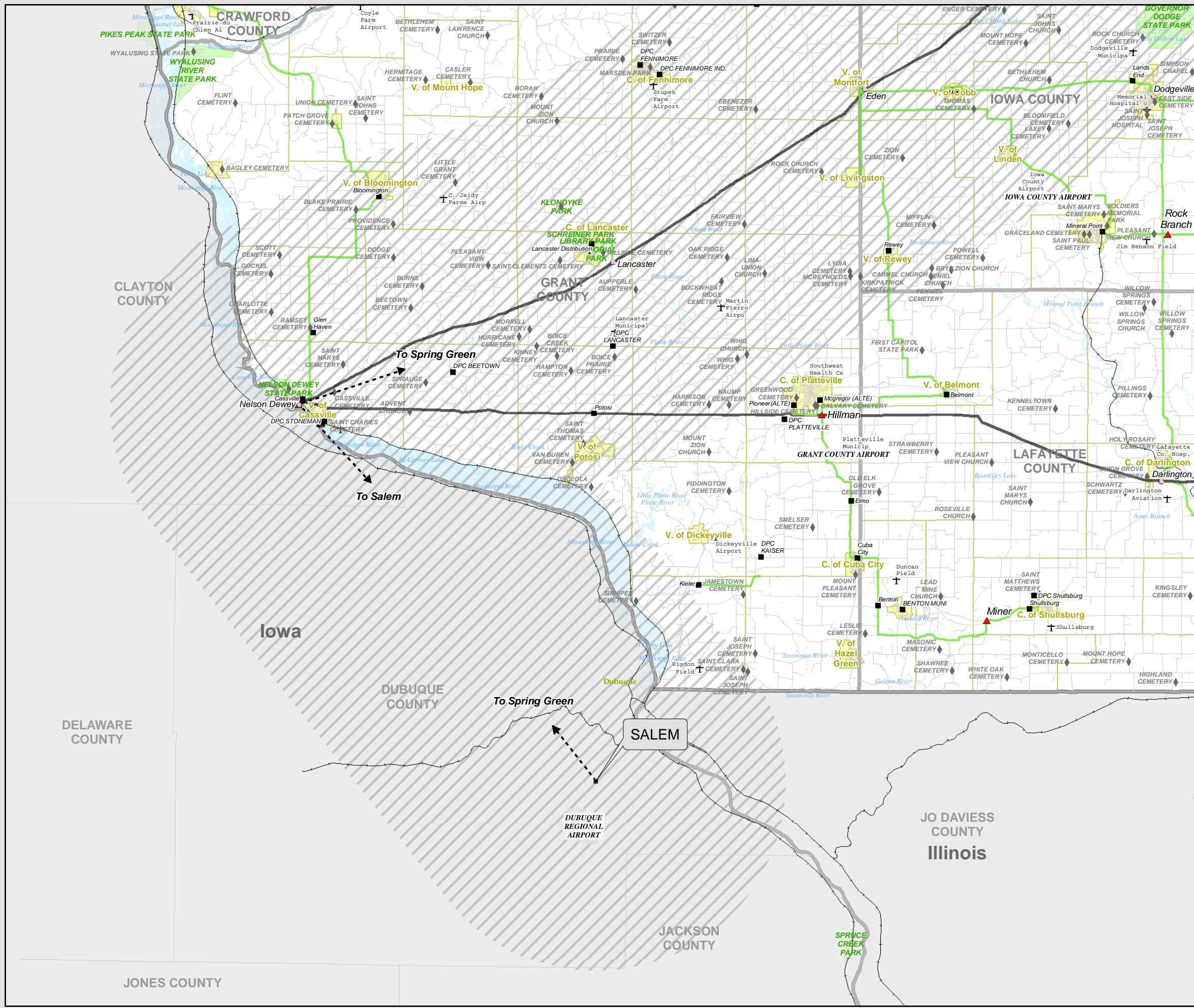
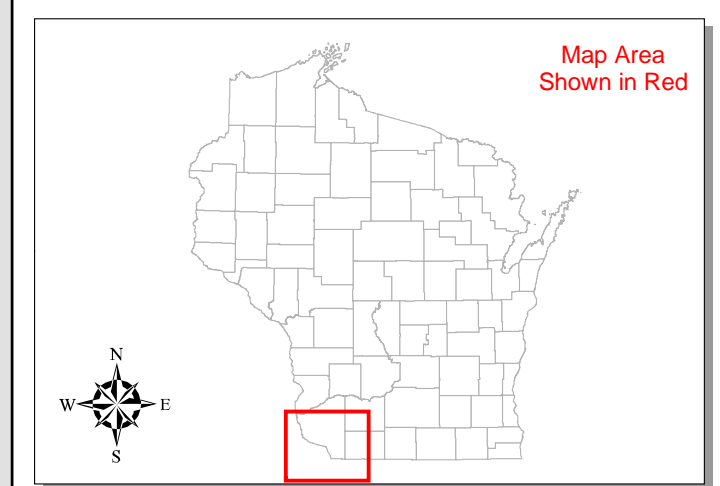
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

2 1 0 2
Miles

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

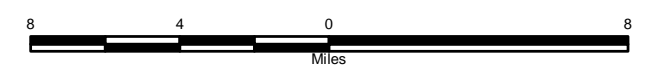


PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Salem to Spring Green to West Middleton 345 kV Line
 PAGE 1 OF 2



Transmission Facilities

- Transmission Sites**
- ▲ ATC Owned
 - ◊ Joint Owned - Conveyed
 - Joint Owned - Retained
 - Muni or Distribution
 - Design or Construction
 - Proposed Distribution Substation
- Transmission Lines**
- 69 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 138 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 345 kV**
- Single Circuit
 - Double Circuit
- Legend:**
- ◆ Public Sites
 - Park Areas
 - ▨ Preliminary Screening Area
 - Open Water
 - City or Village
 - Town Boundary
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

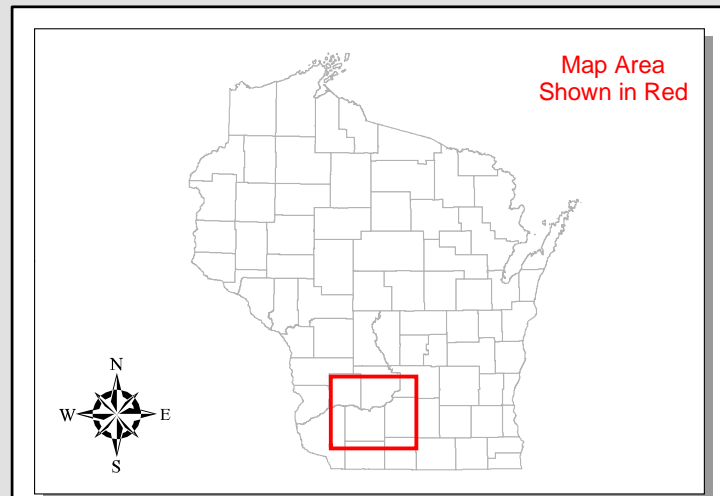
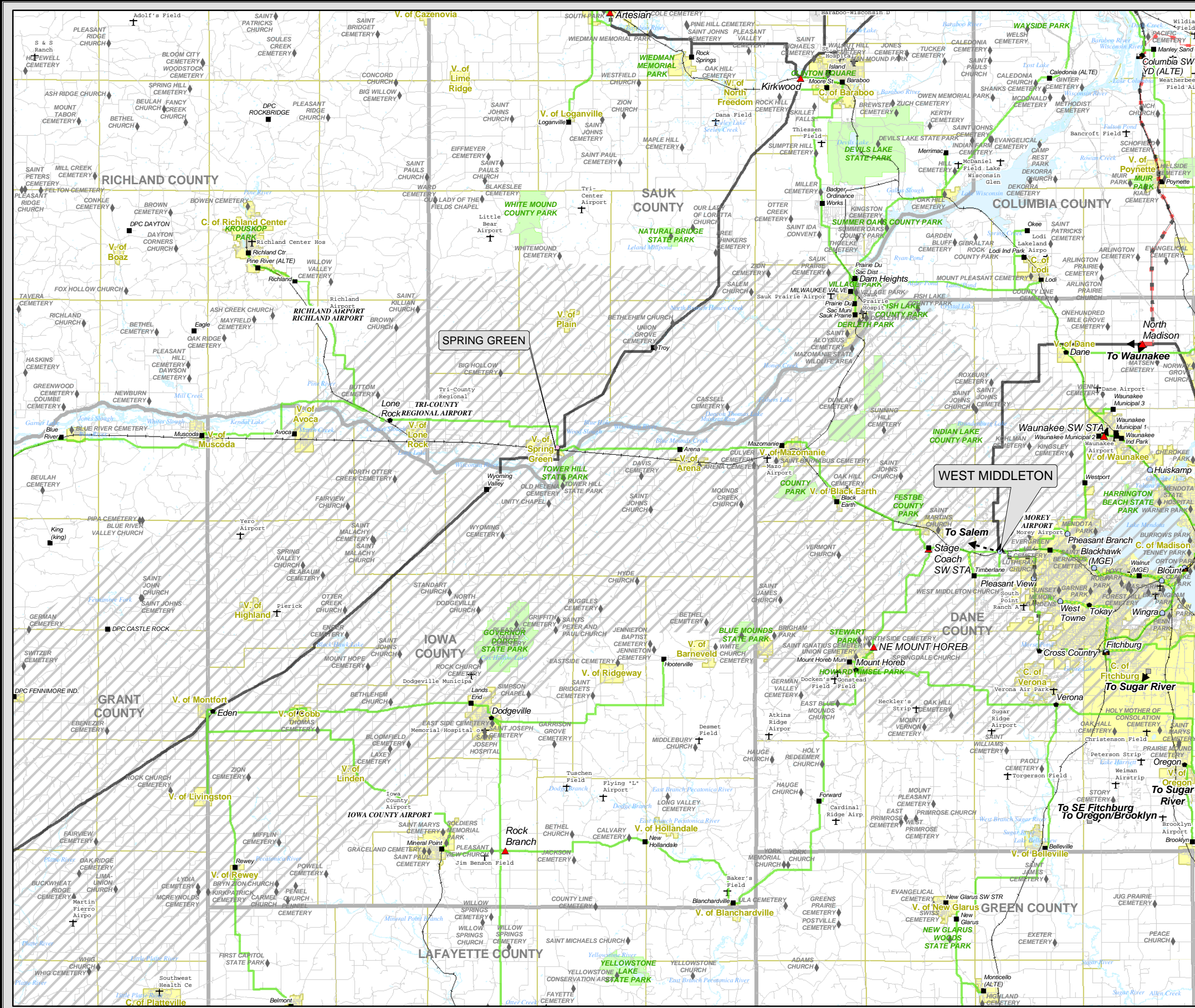


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY

Construct Salem to Spring Green to West Middleton 345 kV Line
PAGE 2 OF 2



Transmission Facilities

Transmission Sites

- ▲ ATC Owned
- ◊ Joint Owned - Conveyed
- Joint Owned - Retained
- Muni or Distribution
- Design or Construction
- Proposed Distribution Substation

Transmission Lines

69 kV

- Single Circuit
- Double Circuit
- Underground

138 kV

- Single Circuit
- Double Circuit
- Underground

345 kV

- Single Circuit
- Double Circuit

Legend:

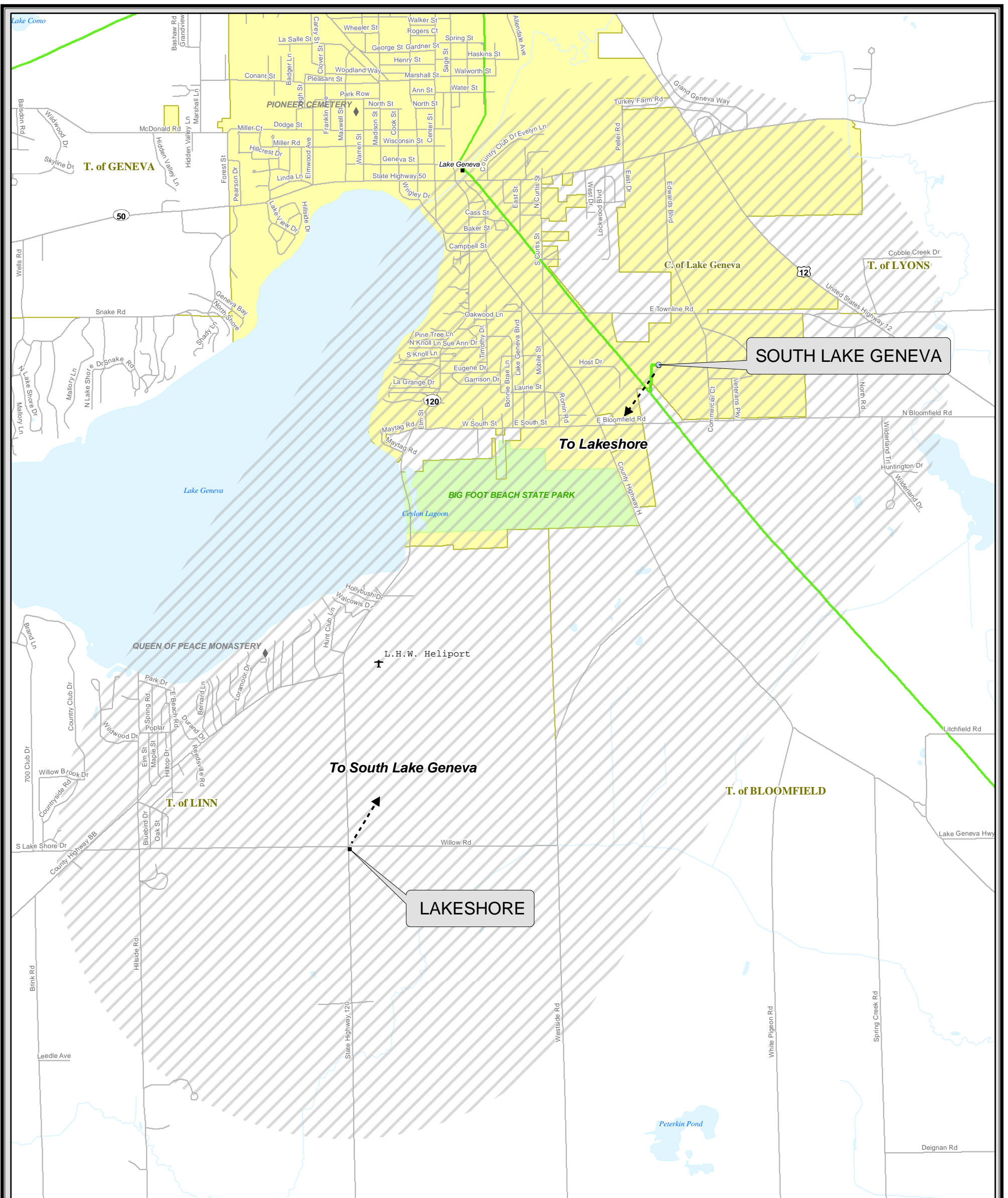
- ◆ Public Sites
- Open Water
- Park Areas
- City or Village
- ▨ Preliminary Screening Area
- Town Boundary

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

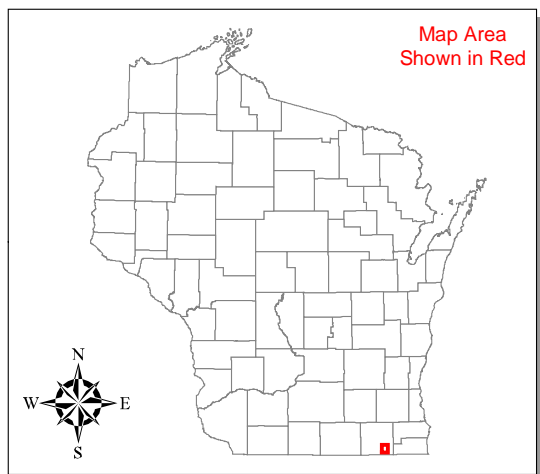
8 4 0 8 Miles

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.





PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct New 69 kV Line from South Lake Geneva to Lake Shore Substation

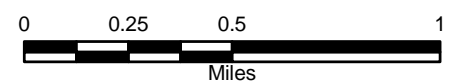


Transmission Facilities

- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| 138 kV | ■ Generation |
| — Single Circuit | ■ Muni or Distribution |
| — Double Circuit | ■ Design or Construction |

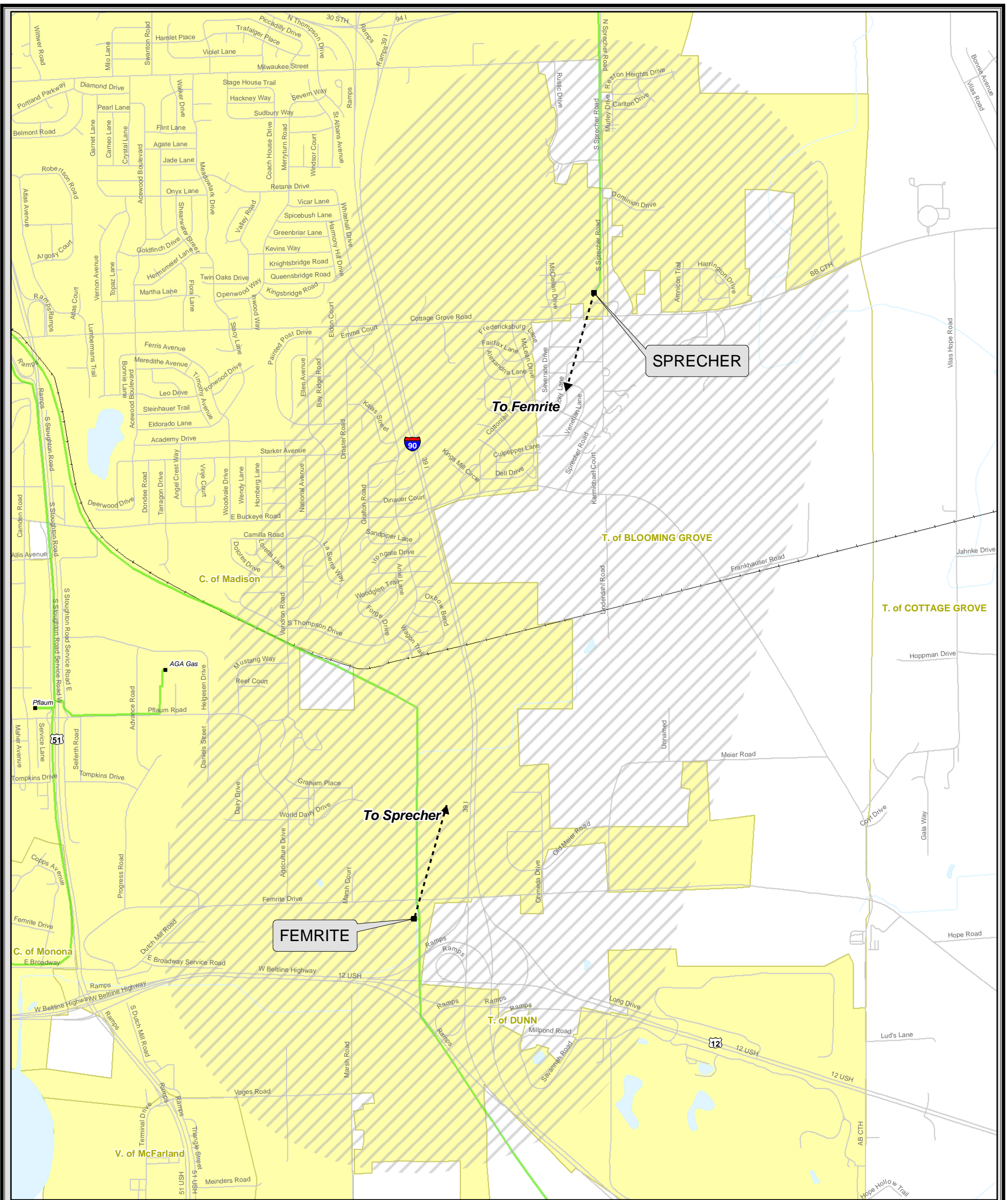
- | | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ● City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



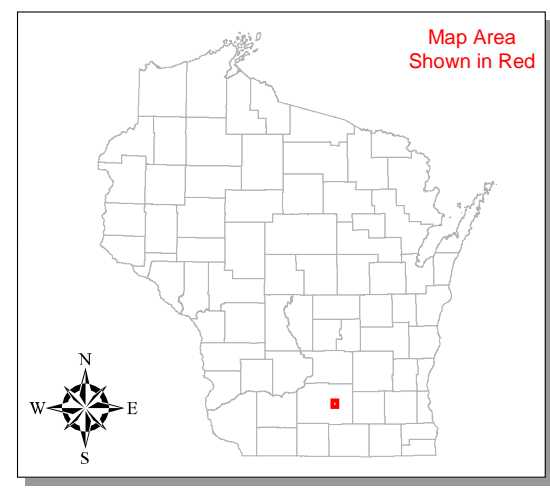
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* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



ATC AMERICAN TRANSMISSION COMPANY THE ENERGY ACCESS COMPANY

PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Sprecher to Femrite 138 kV Line



- ### Transmission Facilities
- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| — Underground | ■ Generation |
| | ■ Muni or Distribution |
| | ■ Design or Construction |
- * Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

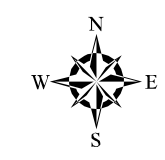
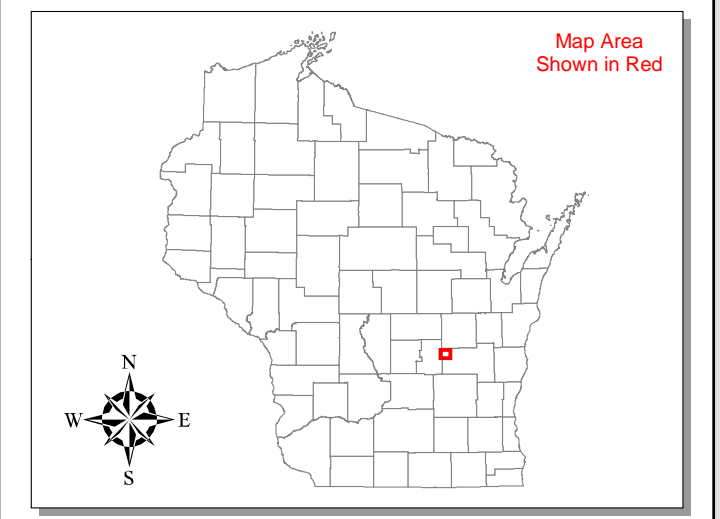
| | |
|------------------------------|-------------------|
| ◆ Public Sites | ● Open Water |
| ● Park Areas | ● City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

**PROVISIONAL TRANSMISSION LINE
REQUIRING NEW RIGHT-OF-WAY**

*Construct 69 kV Line from SW Ripon to the
Ripon - Metomen 69 kV Line*

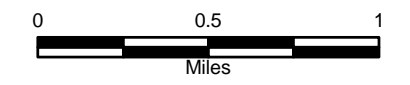


Transmission Facilities

- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| Single Circuit | ◆ Joint Owned - Conveyed |
| Double Circuit | ● Joint Owned - Retained |
| 138 kV | ■ Generation |
| Single Circuit | ■ Muni or Distribution |
| Double Circuit | ■ Design or Construction |

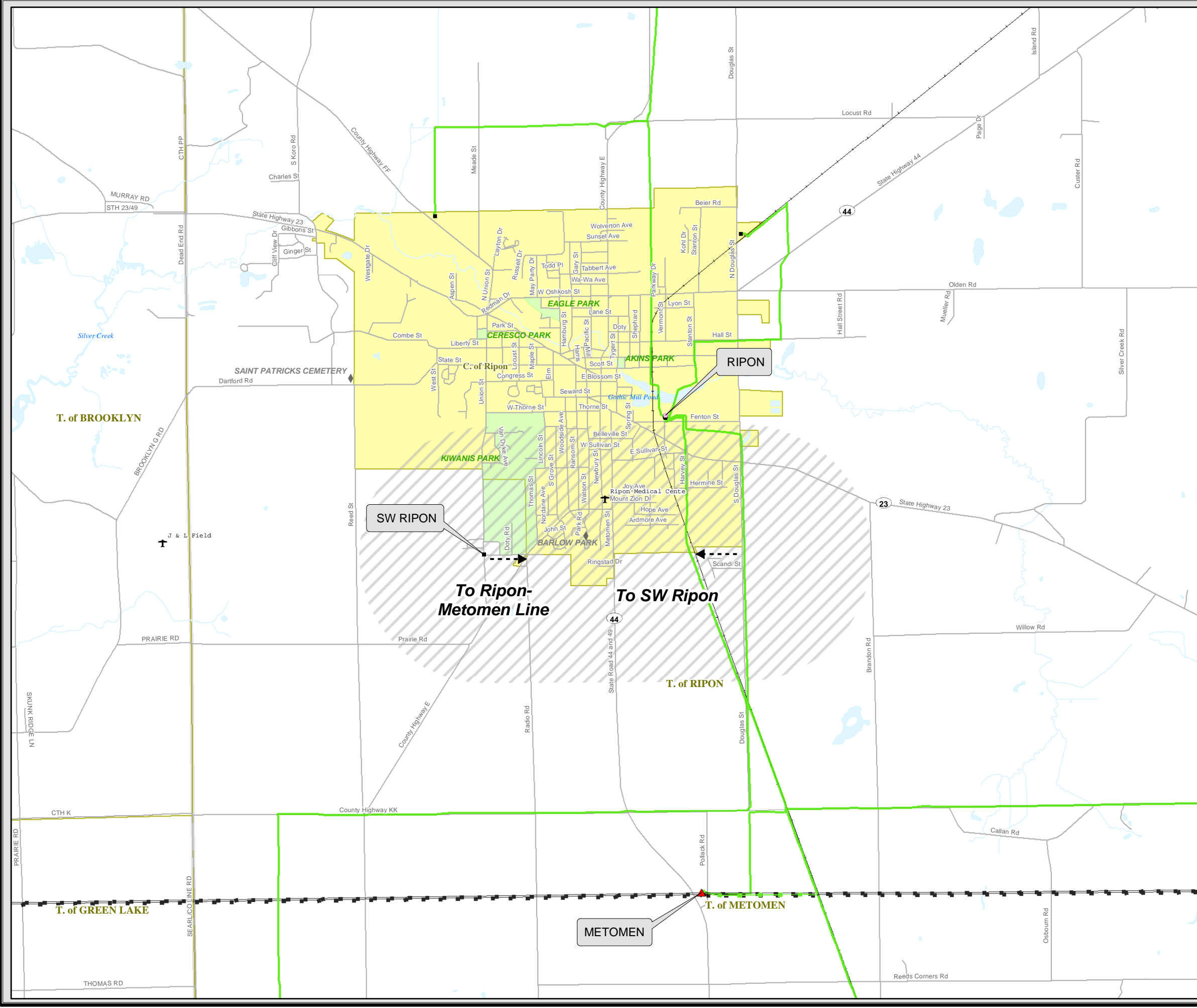
| | |
|------------------------------|-------------------|
| ◆ Public Sites | ● Open Water |
| ● Park Areas | ● City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

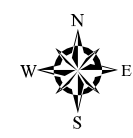
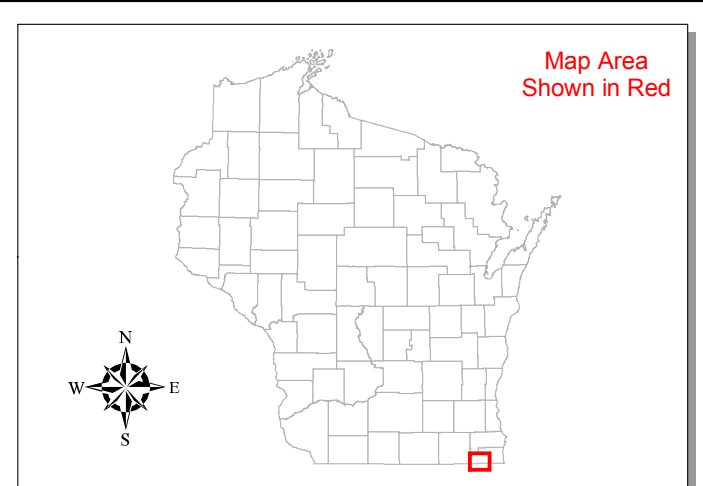
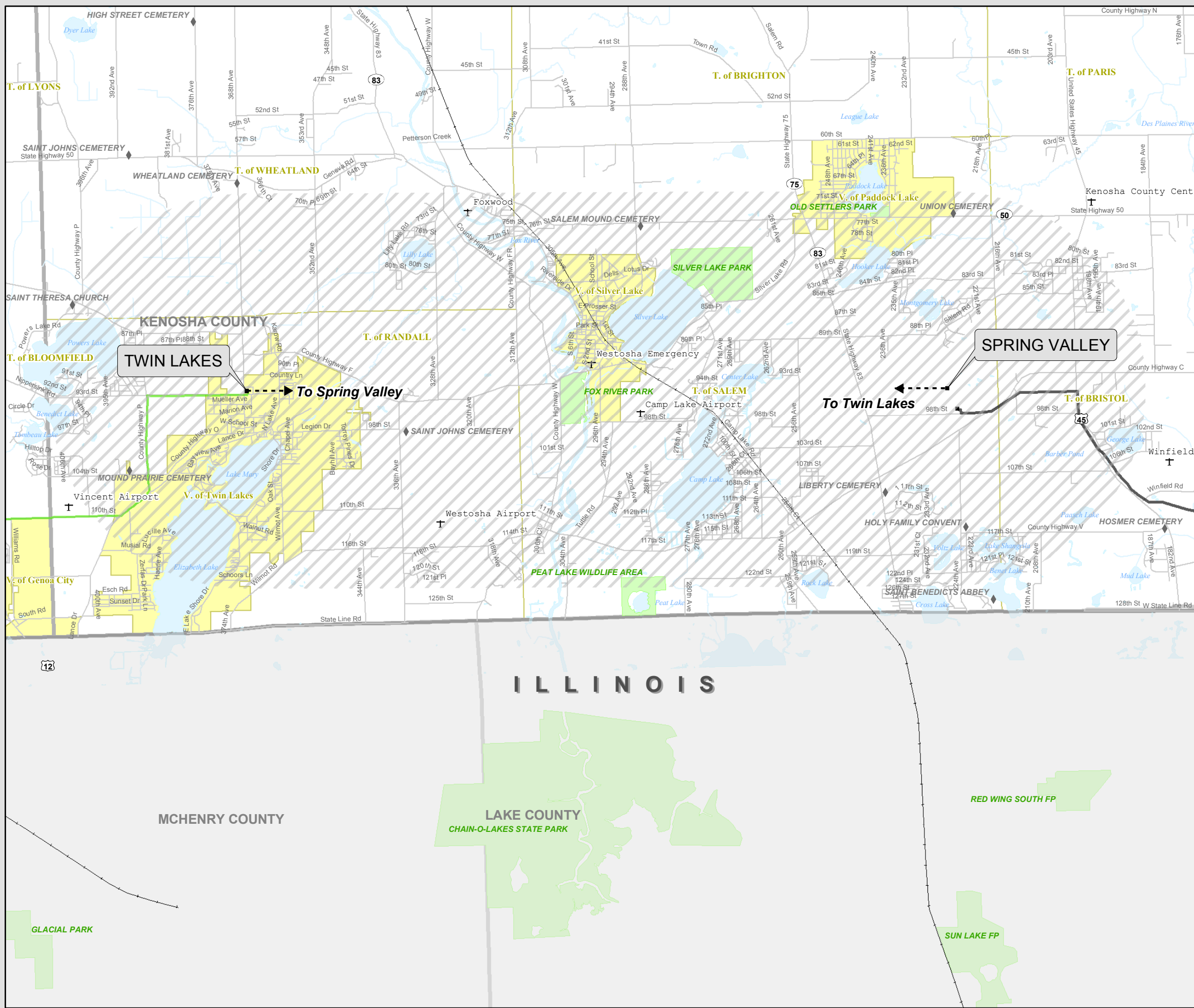


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* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



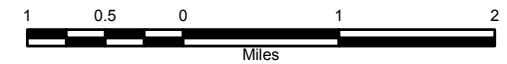
PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct Twin Lakes to Spring Valley
 138 kV Line



Transmission Facilities

- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| Single Circuit | ● Joint Owned - Conveyed |
| Double Circuit | ● Joint Owned - Retained |
| Underground | ■ Generation |
| 138 kV | ■ Muni or Distribution |
| Single Circuit | ■ Design or Construction |
| Double Circuit | |
| Underground | |

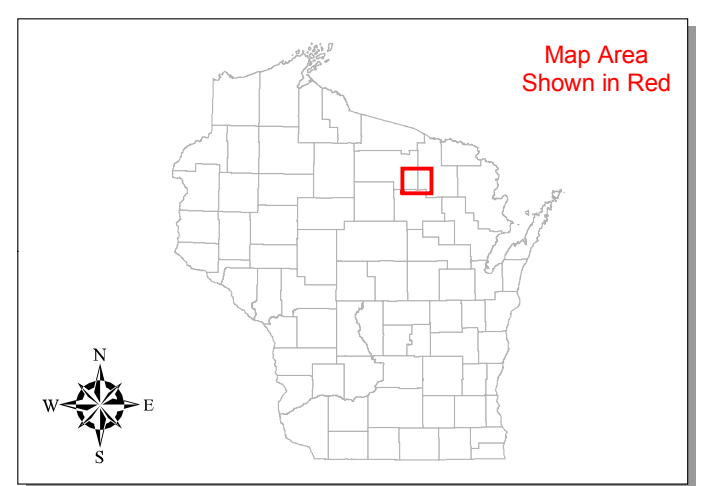
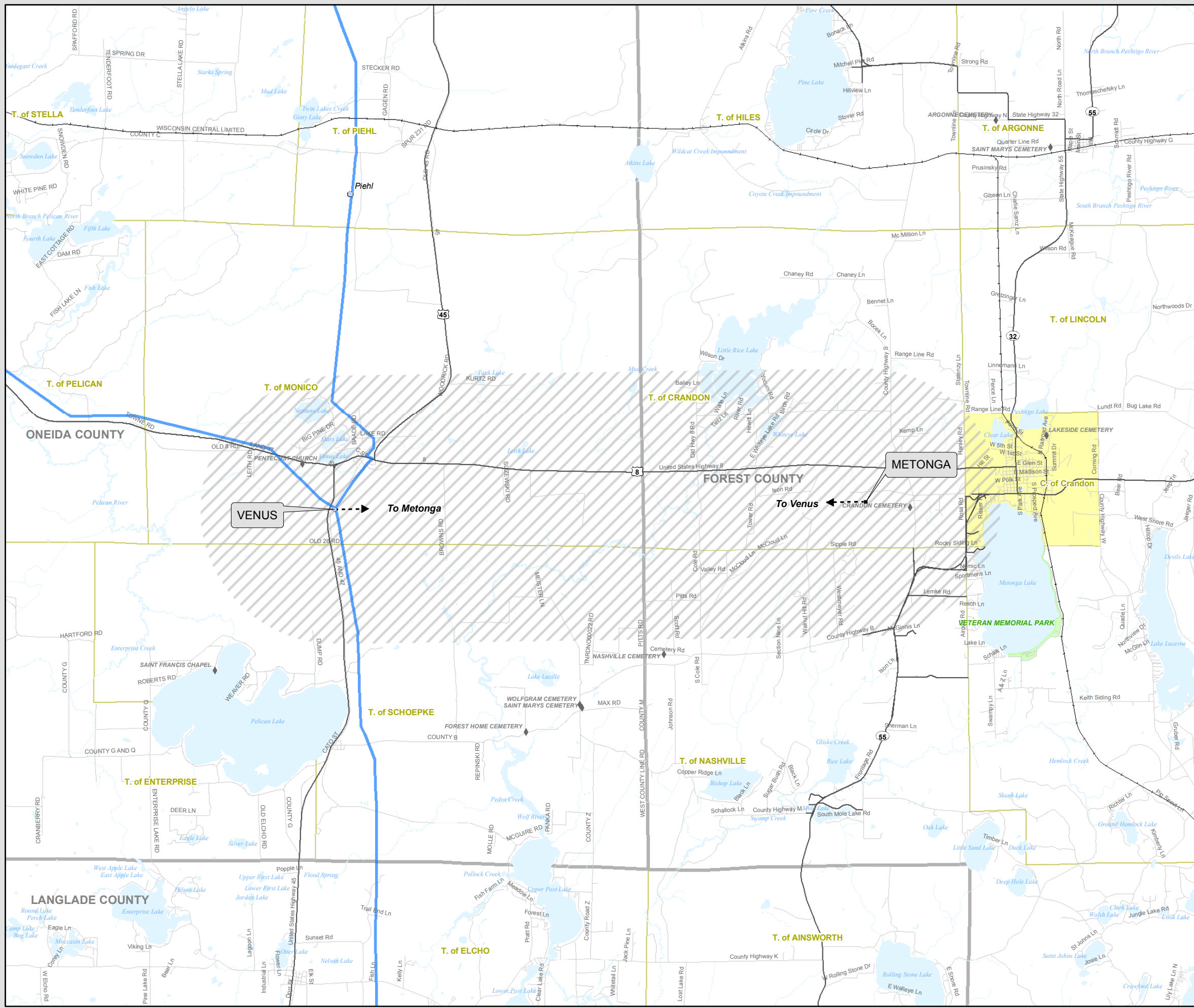
- | | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ○ City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |



The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 * Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.
 Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct Venus to Metonga 115 kV Line



Transmission Facilities

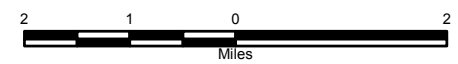
- Transmission Sites**
- ▲ ATC Owned
 - ◆ Joint Owned - Conveyed
 - Joint Owned - Retained
 - Muni or Distribution
 - Design or Construction
 - Proposed Distribution Substation

Transmission Lines

- 115 kV**
- Single Circuit
 - Double Circuit

- ◆ Public Sites
- Park Areas
- ▨ Preliminary Screening Area
- Open Water
- City or Village
- Town Boundary

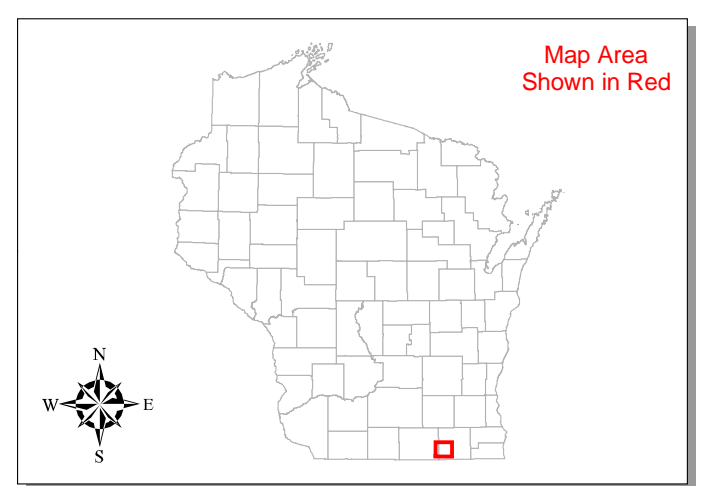
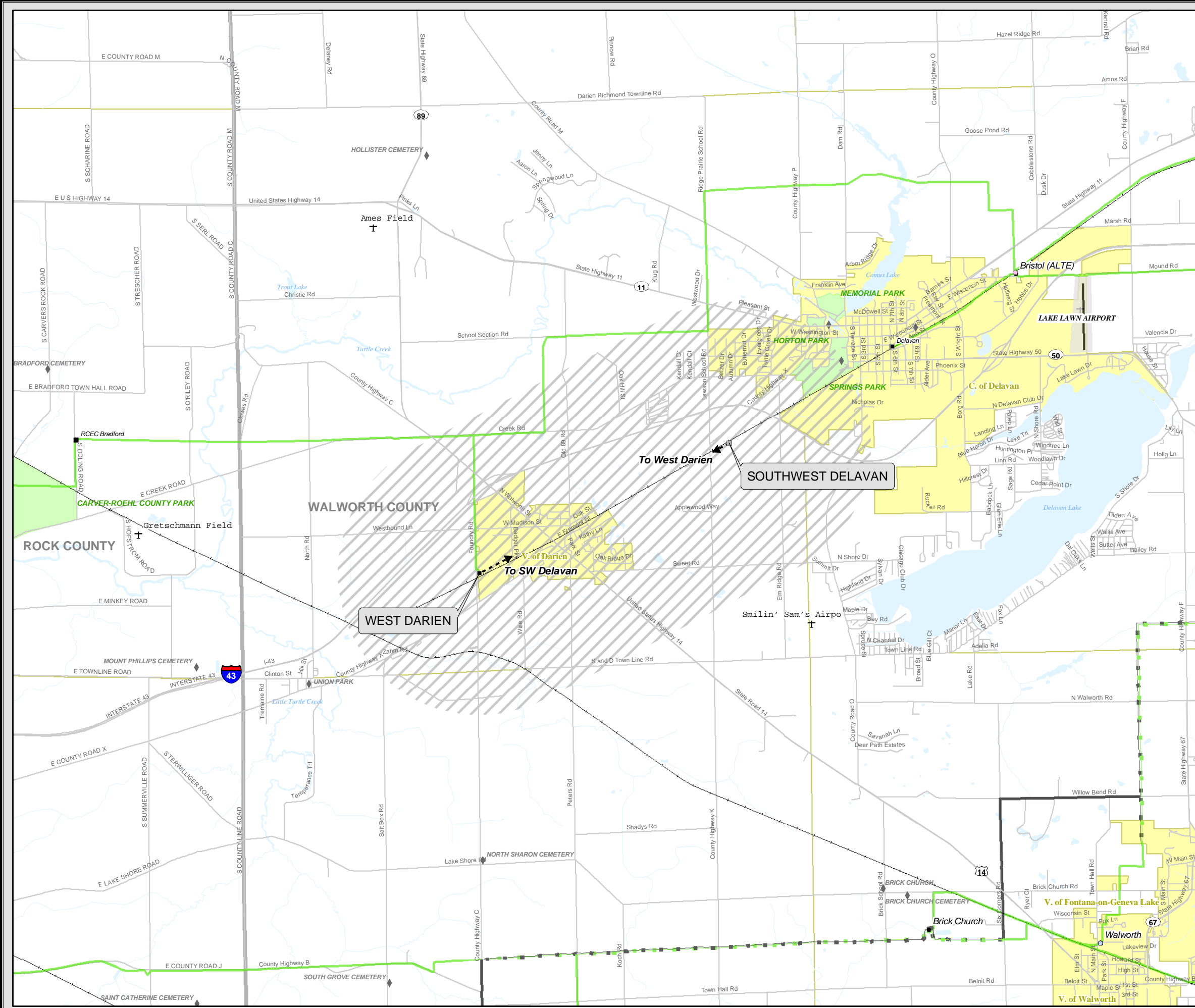
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



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 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

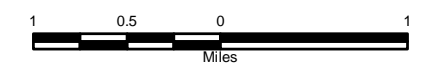


PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
 Construct West Darien to Southwest Delavan
 138 kV Line (Operate at 69 kV)



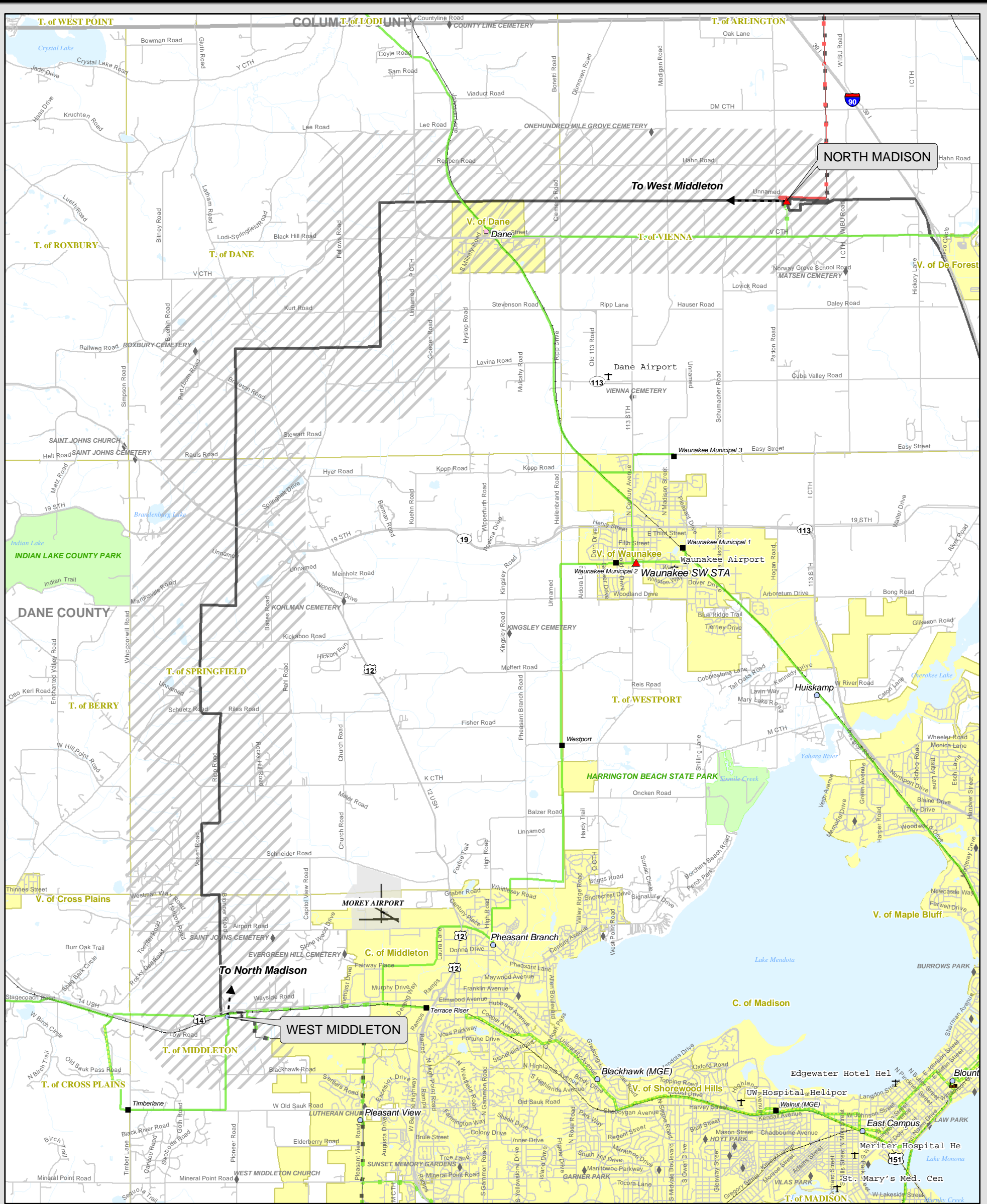
- Transmission Facilities**
- Transmission Sites**
- ▲ ATC Owned
 - ◆ Joint Owned - Conveyed
 - Joint Owned - Retained
 - Muni or Distribution
 - Design or Construction
 - Proposed Distribution Substation
- Transmission Lines**
- 69 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 138 kV**
- Single Circuit
 - Double Circuit
 - Underground
- 345 kV**
- Single Circuit
 - Double Circuit

- ◆ Public Sites
 - Park Areas
 - ▨ Preliminary Screening Area
 - Open Water
 - City or Village
 - Town Boundary
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

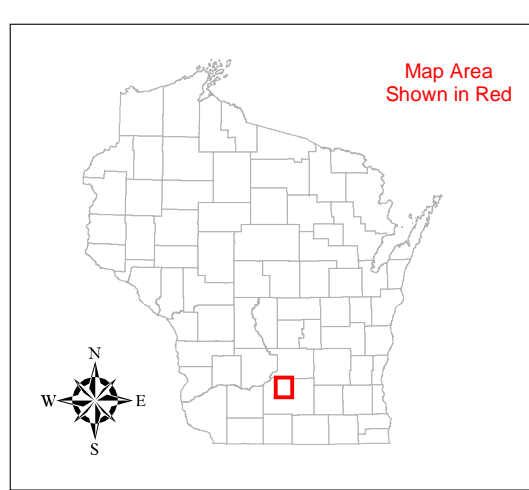


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.
 *Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct West Middleton to North Madison
345 kV Line



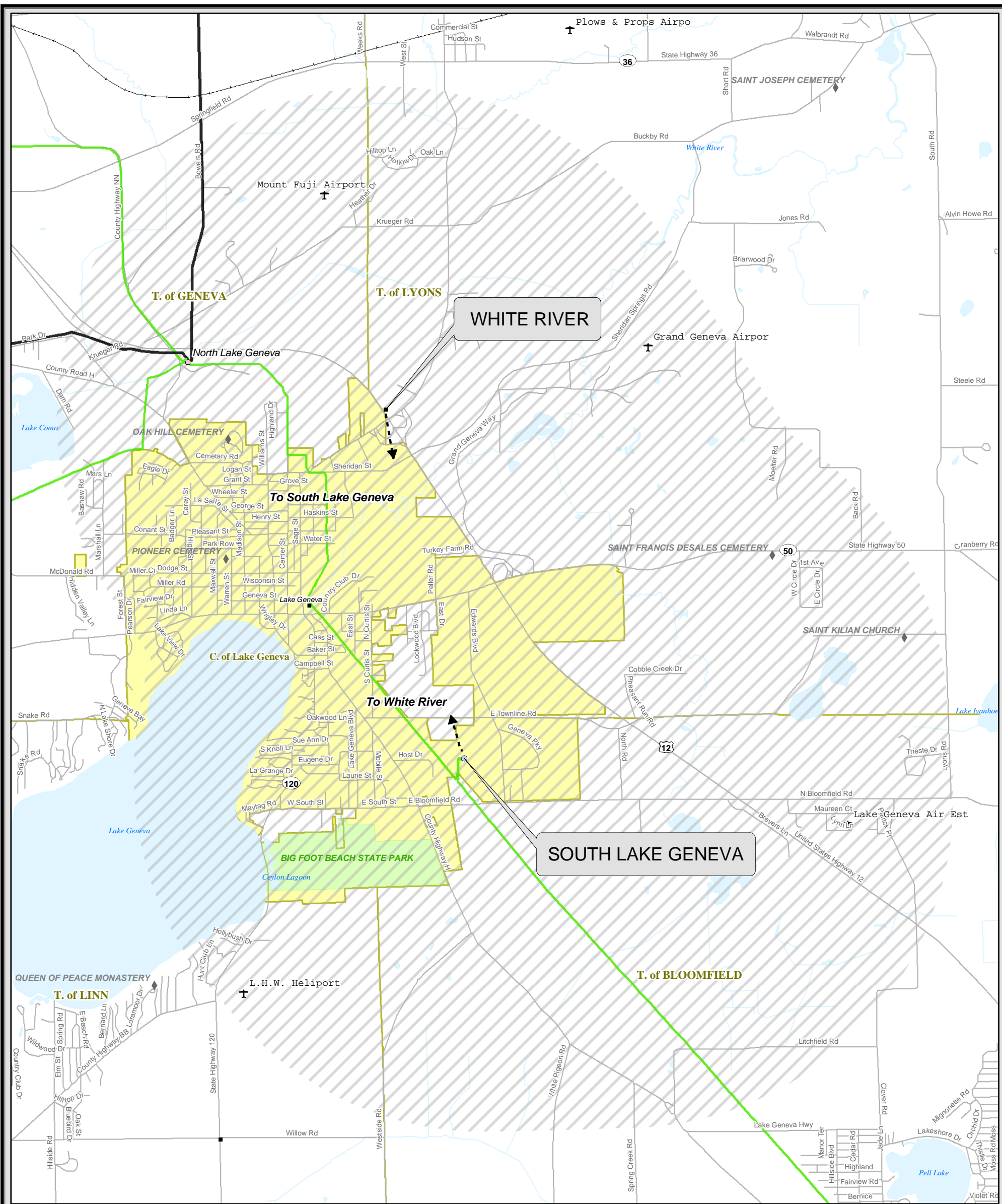
- ### Transmission Facilities
- | | |
|--|--|
| <p>Transmission Lines *</p> <ul style="list-style-type: none"> 69 kV <ul style="list-style-type: none"> Single Circuit Double Circuit Underground 138 kV <ul style="list-style-type: none"> Single Circuit Double Circuit Underground 345 kV <ul style="list-style-type: none"> Single Circuit Double Circuit | <p>Transmission Sites</p> <ul style="list-style-type: none"> ▲ ATC Owned ◆ Joint Owned - Conveyed ● Joint Owned - Retained ■ Muni or Distribution ■ Design or Construction ■ Proposed Distribution Substation |
|--|--|
- * Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ● City or Village |
| ▨ Preliminary Screening Area | ○ Town Boundary |

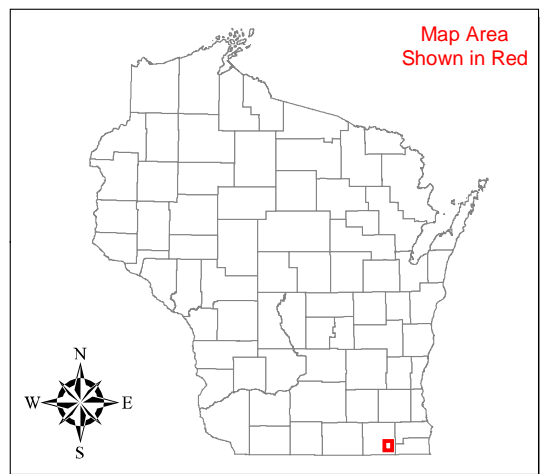
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

1 0.5 0 1
Miles

The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.



PROVISIONAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY
Construct New 138 kV Line from South Lake Geneva to White River



- ### Transmission Facilities
- | | |
|-----------------------------|---------------------------|
| Transmission Lines * | Transmission Sites |
| 69 kV | ▲ ATC Owned |
| — Single Circuit | ◆ Joint Owned - Conveyed |
| — Double Circuit | ● Joint Owned - Retained |
| 138 kV | ■ Generation |
| — Single Circuit | ■ Muni or Distribution |
| — Double Circuit | ■ Design or Construction |

| | |
|------------------------------|-------------------|
| ◆ Public Sites | ○ Open Water |
| ● Park Areas | ● City or Village |
| ○ Preliminary Screening Area | ○ Town Boundary |

Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

0 0.25 0.5 1 Miles

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* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



ROUTING & SITING > Existing right-of-way

Table RS-3 lists the new, rebuilt or reconducted transmission lines requiring no new right-of-way and whether high-level environmental screening information is provided in this report or can be found in application materials already filed with the Public Service Commission. Table RS-4 provides environmental screening information for the lines listed in Table RS-3.

The projects listed in Tables RS-1 through Table RS-4 do not reflect the entire number of projects included in this assessment that will require some level of environmental assessment. Rather, these projects will require selection of new rights-of-way and are likely to result in new environmental impacts. The environmental screening information highlights some of the environmental concerns that will need to be considered during any route identification process for these projects. Other projects will require environmental assessment, and those assessments will be conducted in the course of finalizing the scope for each of those projects.

Table RS-1
Identified Needs and Transmission Lines Requiring New Right-of-Way

| Identified need | Planned, Proposed or Provisional solution | Approx. line mileage | | Projected in-service year | Planning zone | Environmental screening provided? | Comments and/or corresponding exhibit number |
|---|---|----------------------|---------|---------------------------|---------------|-----------------------------------|--|
| | | Total | New ROW | | | | |
| Reduce service limitations, relieve overloads or low voltages under contingency, improve transfer capability & Weston stability | Construct Gardner Park-Stone Lake 345-kV line | 140 | 73.4 | 2006 | 1 | No | Environmental information included with filing at PSCW - CPCN approved; Exhibit RS-1 |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild from Nordic to Randville substation (5 miles) of single circuit 69-kV line to double-circuit 69 kV | 5 | 1 | 2006 | 2 | Yes | Exhibit RS-19 |
| T-D interconnection request, relieve overloads or low voltages under contingency | Construct new 69-kV line from Columbia to Rio to feed the proposed Wyocena substation | 8.16 | 8.16 | 2006 | 3 | Yes | Exhibit RS-4 |
| T-D interconnection request | Construct Venus-Metonga 115-kV line | 12.5 | 11.5 | 2007 | 1 | Yes | Exhibit RS-31 |
| T-D interconnection request | Construct Brandon-Fairwater 69-kV line | 4 | 4 | 2007 | 1 | Yes | Exhibit RS-2 |
| T-D interconnection request | Construct new line from West Darien to Southwest Delavan at 138 kV, operate at 69 kV | 3 | 3 | 2007 | 3 | Yes | Exhibit RS-32 |
| Relieve overloads or low voltages under contingency, T-D interconnection request | Construct a Jefferson-Lake Mills-Stony Brook 138-kV line | 12 | 12 | 2007 | 3 | Yes | Exhibit RS-15 |
| Relieve overloads or low voltages under contingency, accommodate new generation | Construct Sprecher-Femrite 138-kV line | 2 | 2 | 2007 | 3 | Yes | Detailed environmental information included with filing at PSCW ; Exhibit RS-28 |
| T-D interconnection request | Construct double circuit 138-kV line from Forest Junction/Howards Grove/Charter Steel to Plymouth #4 | 1.25 | 1.25 | 2007 | 4 | Yes | Exhibit RS-13 |
| T-D interconnection request | Construct a 69-kV line from SW Ripon to the Ripon-Metomen 69-kV line | 1.5 | 1.5 | 2008 | 1 | Yes | Exhibit RS-29 |
| Reduce service limitations, relieve overloads or low voltages under contingency, improve transfer capability & Weston stability | Construct Stone Lake-Arrowhead 345-kV line | 70 | 36.6 | 2008 | 1 | No | Environmental information included with filing at PSCW - CPCN approved; Exhibit RS-1 |
| T-D interconnection request | Construct new line from Southwest Delavan to Delavan or Bristol at 138 kV, operate at 69 kV | 3.5 | 3.5 | 2008 | 3 | Yes | Detailed environmental information included with filing at PSCW ; Exhibit RS-24 |
| Relieve overloads or low voltages under contingency | Construct a Rubicon-Hustisford 138-kV line | 5 | 5 | 2008 | 3 | Yes | Exhibit RS-25 |
| Relieve overloads or low voltages under contingency | Construct a new 138-kV line from North Madison to Waunakee | 5 | 5 | 2008 | 3 | Yes | Exhibit RS-20 |
| Relieve overloads or low voltages under contingency, transfer capability | Construct Cranberry-Conover 115-kV line | 14 | 14 | 2008 | 1 & 2 | Yes | Exhibit RS-6 |
| Relieve overloads or low voltages under contingency, T-D interconnection request | Construct new 138-kV line from South Lake Geneva to White River | 3 | 3 | 2009 | 3 | Yes | Exhibit RS-34 |
| Relieve overloads or low voltages under contingency | Construct new Montrose-Sun Valley-Oak Ridge 138-kV line | 9 | 3 | 2009 | 3 | Yes | Exhibit RS-18 |
| Relieve overloads or low voltages under contingency, reduce service limitations | String a new 138-kV line from Clintonville-Werner West primarily on Morgan-Werner West 345-kV line structures | 16 | 2 | 2009 | 4 | Yes | Detailed environmental information included with filing at PSCW ; Exhibit RS-17 |

*Table RS-1
Identified Needs and Transmission Lines Requiring New Right-of-Way*

| Identified need | Planned, Proposed or Provisional solution | Approx. line mileage | | Projected in-service year | Planning zone | Environmental screening provided? | Comments and/or corresponding exhibit number |
|---|---|----------------------|---------|---------------------------|---------------|-----------------------------------|--|
| | | Total | New ROW | | | | |
| Relieve overloads or low voltages under contingency, reduce service limitations | Construct Morgan-Werner West 345-kV line | 47 | 47 | 2009 | 4 | Yes | Detailed environmental information included with filing at PSCW; Exhibit RS-17 |
| Relieve overloads or low voltages under contingency | Reroute Paddock to Shirland Avenue 69-kV line into and out of Northwest Beloit | 1 | 0.5 | 2010 | 3 | Yes | Exhibit RS-22 |
| Relieve overloads or low voltages under contingency | Loop the Femrite to Royster 69-kV line into AGA Gas | 0.3 | 0.3 | 2010 | 3 | Yes | Exhibit RS-11 |
| Relieve overloads or low voltages under contingency, accommodate new generation | Construct a Concord-Bark River 345-kV line | 19 | 10 | 2010 | 3 & 5 | Yes | Exhibit RS-5 |
| Relieve overloads or low voltages under contingency | Construct Evansville-Brooklyn 69-kV line | 8 | 8 | 2011 | 3 | Yes | Exhibit RS-10 |
| Relieve overloads or low voltages under contingency | Construct 345-kV line from Rockdale to West Middleton | 35 | 35 | 2011 | 3 | Yes | Exhibit RS-23 |
| Relieve overloads or low voltages under contingency | Loop the Deforest to Token Creek 69-kV line into the Yahara River substation | 1 | 1 | 2011 | 3 | Yes | Exhibit RS-7 |
| Relieve overloads or low voltages under contingency | Construct a Lake Delton-Birchwood 138-kV line | 5 | 5 | 2011 | 3 | Yes | Exhibit RS-16 |
| Relieve overloads or low voltages under contingency | Construct a second Dunn Road-Egg Harbor 69-kV line | 12.66 | 12.66 | 2011 | 4 | Yes | Exhibit RS-8 |
| Relieve overloads or low voltages under contingency | Construct 69-kV line from Eden through Muscoda to Richland Center | 35 | 35 | 2012 | 3 | Yes | Exhibit RS-9 |
| Access initiative | Salem-Spring Green-West Middleton 345-kV proxy for Large Access Project, includes rebuild Nelson Dewey-Spring Green-West Middleton 138/69 kV to double-circuit 345/138 kV | 114 | 114 | 2013 | 3 | Yes | Exhibit RS-26 |
| Relieve overloads or low voltages under contingency | Rebuild/convert Chalk Hills-Chandler 69 kV to 138 kV operation | 54 | 14 | 2013 | 2 | Yes | Exhibit RS-3 |
| T-D interconnection request | Construct new 69-kV line from South Lake Geneva to Lake Shore substation | 3.2 | 3.2 | 2013 | 3 | Yes | Exhibit RS-27 |
| Relieve overloads or low voltages under contingency | Construct new 138-kV line from Twin Lakes to Spring Valley | 9 | 9 | 2013 | 3 | Yes | Exhibit RS-30 |
| Relieve overloads or low voltages under contingency | Construct a Horicon-East Beaver Dam 138-kV line | 9 | 9 | 2013 | 3 | Yes | Exhibit RS-14 |
| Accommodate new generation | Construct an Oak Creek-Hale (Brookdale) 345-kV line installing 4 mi. new structures, converting 16.2 mi. of non-operative 230 kV and 5 mi. 138 kV | 25.2 | 4 | 2013 | 5 | Yes | Exhibit RS-21 |
| Relieve overloads or low voltages under contingency, access initiative | Construct West Middleton-North Madison 345 kV line | 20 | 46.7 | 2014 | 3 | Yes | Exhibit RS-33 |
| Relieve overloads or low voltages under contingency, access initiative | Construct Fitzgerald-Omro Industrial 69-kV line | 7 | 7 | 2015 | 1 | Yes | Exhibit RS-12 |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Nordic-Randville 69-kV line rebuild | | Exhibit RS-19 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 5 with 1 mile of rerouting |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 40 |
| #2 | Corridor Sharing Opportunities | Existing town roads and railroad corridor offer the best opportunities for corridor sharing. |
| #3 | Public Lands | Copper Country State Forest |
| #4 | Sensitive Resources | None identified |
| #5 | Cultural Resources | None identified |
| | Miscellaneous | |

| Columbia-Rio 69-kV line | | Exhibit RS-4 |
|--------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 9 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 65 |
| #2 | Corridor Sharing Opportunities | State highways, railroads, and existing transmission line rights-of-way offer opportunities for corridor sharing. |
| #3 | Public Lands | Wyona County Park, Middle Branch Duck Creek, Duck Creek Campground, local parks associated with Duck Creek, Lake Columbia, Wyona Lake, Jennings Creek, and boat launches associated with area lakes are found in the screening area. |
| #4 | Sensitive Resources | Rock Run Oak Savanna State Natural Area, Jennings Creek State Wildlife Area, Rocky Run Creek State Fishery Area, Duck Creek, Wyona Lake, and Lake Columbia are located in the screening area. |
| #5 | Cultural Resources | The Cultural Map of Wisconsin does not identify any sites within the screening area, however there are several cemeteries known in the screening area. |
| | Miscellaneous | Several airfields and landing strips are found in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Venus-Metonga 115-kV line | | Exhibit RS-31 |
|----------------------------------|--|--|
| | General Description | New line - Interconnection with proposed Metonga distribution substation |
| | Length (miles) | approximately 10 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 69 |
| #2 | Corridor Sharing Opportunities | Highways 45, 8, and 32 are located in the screening area. Existing 115-kV transmission line in western 1/4 of screening area. Possible sharing with local electrical distribution lines and railroads. |
| #3 | Public Lands | Nicolet National Forest, Veterans Memorial Park, Little Rice wildlife area, Wolf River tower site, Statewide natural areas, statewide spring ponds, and scattered forestlands. |
| #4 | Sensitive Resources | Numerous lakes, headwaters of the Wolf River, streams, wetlands, forestlands, are located in the screening area. |
| #5 | Cultural Resources | Potawatomi Indian reservation and high potential for other historical and cultural resources in the screening area. Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

| Brandon-Fairwater 69-kV line | | Exhibit RS-2 |
|-------------------------------------|--------------------------------|--|
| | General Description | New line |
| | Length (miles) | 4 |
| #1 | Screening Area (Sq. mi.) | 17.78 |
| #2 | Corridor Sharing Opportunities | Existing road and railroad corridors offer the best corridor sharing opportunities. |
| #3 | Public Lands | Community Park, and WDNR Glacial Habitat Restoration Areas are located within the screening area. |
| #4 | Sensitive Resources | Grand River, West Branch Rock River, and unnamed streams are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies a number of architectural and historic sites, particularly within the Village of Brandon. Archaeological sites are identified in proximity to the waterways. |
| | Miscellaneous | There is a low probability of encountering endangered resources. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| West Darien-Southwest Delavan 138/69-kV line | | Exhibit RS-32 |
|---|--|--|
| | General Description | New line |
| | Length (miles) | approximately 3.0 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 16 |
| #2 | Corridor Sharing Opportunities | Federal highway, State and County roads, railroad corridor, and existing electrical distribution lines routes located within the screening corridor offer the best potential for corridor sharing. |
| #3 | Public Lands | Turtle Creek Hunting Grounds |
| #4 | Sensitive Resources | Turtle Creek Wildlife Area, streams, small lakes and wetlands. |
| #5 | Cultural Resources | Clown Hall of Fame, Circus Colony, Wisconsin's First School for the Deaf Marker. |
| | Miscellaneous | |

| Jefferson-Lake Mills-Stony Brook 138-kV line | | Exhibit RS-15 |
|---|--|---|
| | General Description | New line |
| | Length (miles) | approximately 12 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 78 |
| #2 | Corridor Sharing Opportunities | Several state and county highways, and portions of existing transmission rights of-way, pipelines, and active and abandoned railroad corridors are within the screening zone. |
| #3 | Public Lands | Aztalan State Park, Lake Mills state wildlife area, Waterloo state wildlife area, Rock Lake County park, the Jefferson County Fairgrounds, and several local parks are located in the screening area. |
| #4 | Sensitive Resources | Several Lakes (Rock, Bean, Marsh, and Mud), the Crawfish and Rock Rivers and their tributaries are located in the screening area. Bean Lake and Waterloo Prairie State, Snapper and Falville Prairie State Natural Areas are located near the screening area. |
| #5 | Cultural Resources | Aztalan Museum and Aztalan State Park are identified on the Cultural Map of Wisconsin within the screening area. |
| | Miscellaneous | The Muck Farms Airport, Tesmer Field, and Ha-Rail Field are located in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Sprecher-Femrite 138-kV line | | Exhibit RS-28 |
|-------------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 2.6 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 8 |
| #2 | Corridor Sharing Opportunities | Existing transmission lines, railroad corridors, federal highways, and town roads offer the best opportunities for corridor sharing. |
| #3 | Public Lands | None listed. |
| #4 | Sensitive Resources | Legacy places lists the upper Yahara River Streams and Lakes, other streams and wetlands within screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

| Forest Junction-Howards Grove-Charter Steel to Plymouth #4 138-kV line | | Exhibit RS-13 |
|---|--|--|
| | General Description | New double circuit line to connect Plymouth # 4 Substation |
| | Length (miles) | approximately 1.2 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 2.5 |
| #2 | Corridor Sharing Opportunities | State Highways 23 and 57 are located within the screening area as well as several county highways. |
| #3 | Public Lands | None shown. |
| #4 | Sensitive Resources | Sheboygan River, Mullet River, Otter Creek, scattered wetlands, some forested lands, and extensive agricultural lands are present in the screening area. |
| #5 | Cultural Resources | None shown. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>Southwest Ripon to the Ripon-Metomen 69-kV line</u> | | Exhibit RS-29 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 1.5 |
| #1 | Screening Area (Sq. mi.) | 4 |
| #2 | Corridor Sharing Opportunities | County and local roads provide opportunities for corridor sharing. |
| #3 | Public Lands | Barlow Park and Kiwanis Park are within the screening area. |
| #4 | Sensitive Resources | Two unnamed streams and associated wetlands are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies numerous architectural and historic sites within the City of Ripon. |
| | Miscellaneous | There is a low probability of encountering endangered resources. |

| <u>Southwest Delavan-Delavan or Bristol 138/69-kV line</u> | | Exhibit RS-24 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 3.5 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 22 |
| #2 | Corridor Sharing Opportunities | Federal highway, state and county roads, railroad corridor, and existing electrical distribution lines routes located within the screening area offer the best potential for corridor sharing. |
| #3 | Public Lands | Turtle Creek Hunting Grounds |
| #4 | Sensitive Resources | Turtle Creek Wildlife Area, streams, small lakes and wetlands. |
| #5 | Cultural Resources | Clown Hall of Fame, Circus Colony, Wisconsin's First School for the Deaf Marker. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Rubicon-Hustisford 138-kV line | | Exhibit RS-25 |
|---------------------------------------|--|---|
| | General Description | New line |
| | Length (miles) | approximately 5 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 45 |
| #2 | Corridor Sharing Opportunities | State Highways 60 and 67 and County Highways EE and N are located within the screening area. |
| #3 | Public Lands | No DNR managed lands or state natural areas are located in the screening area. . |
| #4 | Sensitive Resources | Lake Sinissippi, Neosho Millpond, Rubicon River, Hepp Creek, and scattered wetlands and woodlots are found within the screening zone. Extensive agricultural lands are located in the screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

| North Madison-Waunakee 138-kV line | | Exhibit RS-20 |
|---|--|--|
| | General Description | New line |
| | Length (miles) | approximately 5 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 47 |
| #2 | Corridor Sharing Opportunities | Highway 113 and several county highways and local roads are located within the screening area. |
| #3 | Public Lands | No DNR managed lands or state natural areas are located in the screening area. . |
| #4 | Sensitive Resources | Sixmile Creek and various tributaries, isolated wetlands and woodlots are found within the screening area. Empire Prairie state natural area is located near the screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | Extensive agricultural lands and rolling terrain. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Cranberry-Conover 115-kV line | | Exhibit RS-6 |
|--------------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 11 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 74 |
| #2 | Corridor Sharing Opportunities | State Highways 32/45 and 17, county highways, local roads, existing electrical transmission and distribution lines and railroad corridors are present in the screening area. |
| #3 | Public Lands | Chequamegon/ Nicolet National Forest, Northern Highland - American Legion State Forest, Eagle Lake Park. |
| #4 | Sensitive Resources | Numerous lakes, streams, wetlands, and forested lands are found in the screening area. |
| #5 | Cultural Resources | There is a high potential for historic and cultural resources within the screening area. |
| | Miscellaneous | Eagle River Union airport is located within the screening area. |

| South Lake Geneva-White River 138-kV line | | Exhibit RS-34 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 3 |
| #1 | Screening Area (Sq. mi.) | 25.94 |
| #2 | Corridor Sharing Opportunities | United States Highway 12 and State Highway 120, along with other roads offer opportunities for corridor sharing, along with the existing transmission line Y-152. |
| #3 | Public Lands | Big Foot Beach State Park and other WDNR owned lands are located within the screening area. |
| #4 | Sensitive Resources | Lake Geneva, Lake Como, and a number of large wetland complexes are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies archaeological and historic resources in the screening area, particularly located near Lake Geneva. |
| | Miscellaneous | There is a moderate probability on encountering endangered resources. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Montrose-Sun Valley-Oak Ridge 138-kV line | | Exhibit RS-18 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 9 |
| #1 | Screening Area (Sq. mi.) | 63.49 |
| #2 | Corridor Sharing Opportunities | Numerous county and local roads, and a recreational trail offer opportunities for corridor sharing. |
| #3 | Public Lands | Nevin Hatchery, Brooklyn Wildlife Area, and a WDNR recreational trail are located within the screening area. |
| #4 | Sensitive Resources | The Sugar River and associated wetlands, Story Creek, and other unnamed streams and wetlands are located within the screening area. |
| #5 | Cultural Resources | The WHS database has identified architectural and historic sites within the screening area. |
| | Miscellaneous | There is a moderate probability on encountering endangered resources. |

| Clintonville-Werner West 138-kV line | | Exhibit RS-17 |
|---|--|--|
| | General Description | New line primarily on Morgan-Werner West structures |
| | Length (miles) | approximately 16 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 555 |
| #2 | Corridor Sharing Opportunities | Several state highways, county highways, existing transmission rights-of-way, pipelines, and railroads within the screening zone. |
| #3 | Public Lands | Several state wildlife areas (Mukwa, Navarino, Hortonville Bog, Deer Creek), Wiouwash State Trail, and parks including Cedar County Park, Walter A. Olen, Shiocton Lake, Lindsay, Pfeifer, Hatten, Abrahams Parks, as well as numerous fish, wildlife, habitat and natural areas along the Wolf River throughout screening zone. |
| #4 | Sensitive Resources | The Wolf River, Embarrass River, Bear Creek, Maple Creek, Cedar Creek, Pigeon lake and wetlands along with forested lands and agricultural land are in the screening area. |
| #5 | Cultural Resources | High potential for historic and cultural resources within screening zone. |
| | Miscellaneous | Numerous cemeteries. Clintonville Municipal Airport. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Morgan-Werner West 345-kV line | | Exhibit RS-17 |
|---------------------------------------|--|---|
| | General Description | New line |
| | Length (miles) | approximately 47 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 555 |
| #2 | Corridor Sharing Opportunities | Several state highways, county highways, existing transmission rights-of-way, pipelines, and railroads within the screening zone. |
| #3 | Public Lands | Several State Wildlife areas (Mukwa, Navarino, Hortonville Bog, Deer Creek), Shawano Lake Fishery Area, the Wiouwash, Nicolet, and Mountain Bay State Trails, and parks including Cedar County Park, Walter A. Olen, Shiocton Lake, Lindsay, Pfeifer, Hatten, Abrahams Parks, as well as numerous fish, wildlife, habitat and natural areas along the Wolf River throughout screening zone. |
| #4 | Sensitive Resources | The Wolf River, Embarrass River, Oconto River, Bear Creek, Maple Creek, Cedar Creek, several lakes, including Pigeon lake, Grass Lake, Pine Lake, Shawano Lake, Jung Hemlock-Beech Forest State Natural Area, and wetlands along with forested lands and agricultural land are in the screening area. |
| #5 | Cultural Resources | High potential for historic and cultural resources within screening zone. |
| | Miscellaneous | Numerous cemeteries. Clintonville Municipal Airport. |

| Reroute Paddock-Shirland Avenue 69-kV line to Northwest Beloit | | Exhibit RS-22 |
|---|--|--|
| | General Description | Connect existing line to Northwest Beloit Substation |
| | Length (miles) | approximately 1.0 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 1.5 |
| #2 | Corridor Sharing Opportunities | Existing road and railroad corridors. Possible sharing with local electrical distribution lines. |
| #3 | Public Lands | None shown. |
| #4 | Sensitive Resources | Unnamed tributary to Raccoon Creek |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Femrite/Royster-AGA 69-kV line | | Exhibit RS-11 |
|---------------------------------------|--|--|
| | General Description | New line |
| | Length (miles) | approximately 0.3 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 0.2 |
| #2 | Corridor Sharing Opportunities | Local roads offer some opportunities for corridor sharing. |
| #3 | Public Lands | The Femrite-Royster line is adjacent to the Glacial Drumlin Trail. |
| #4 | Sensitive Resources | Woodlot located in industrial park. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | Primarily commercial/industrial park land uses. |

| Concord-Bark River 345-kV line | | Exhibit RS-5 |
|---------------------------------------|--|---|
| | General Description | New line |
| | Length (miles) | approximately 17 total, 10 of new right-of-way |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 107 |
| #2 | Corridor Sharing Opportunities | Several state and county highways, existing transmission rights-of-way, pipelines, and railroad corridors are within the screening zone. |
| #3 | Public Lands | State public hunting grounds, Monches County Park and other undeveloped county parklands, and several community parks are located within the screening area. |
| #4 | Sensitive Resources | Keesus Lake Marshland Preservation area, Ashippun Lake access and wildlife area, Keesus Lake, North Lake, Beaver Lake, Pine Lake, Cornell Lake, Moose Lake, Okauchee Tamarack Lake, Ashippun Lake, Lac La Belle, and several streams including Bark River, Oconomowoc River, Mason Creek, Ashippun River, Rock River and tributaries are all located in the screening area. |
| #5 | Cultural Resources | The Marantha Baptist Bible College, the Octagon House, Northwestern College and the Main Street Commercial District in Watertown and the East Capitol Drive Historic District in Hartland are identified on the Cultural Map of Wisconsin within the screening area. |
| | Miscellaneous | The Watertown Municipal Airport and the Oconomowoc Landing Strip are located in the screening area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Evansville-Brooklyn 69-kV line | | Exhibit RS-10 |
|---------------------------------------|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 8 |
| #1 | Screening Area (Sq. mi.) | 55.08 |
| #2 | Corridor Sharing Opportunities | United States Highway 14, numerous county and local roads, along with a railroad corridor, offer opportunities for corridor sharing. |
| #3 | Public Lands | Evansville Wildlife Area |
| #4 | Sensitive Resources | Allen Creek and Tributaries, and a tributary of Badfish Creek are located within the screening area. |
| #5 | Cultural Resources | The WHS database identifies architectural and historic sites, particularly concentrated within the Village of Brooklyn and the City of Evansville. Two archaeological sites are identified within the screening area. |
| | Miscellaneous | There is a moderate probability of encountering endangered resources. |

| Rockdale-West Middleton 345-kV line | | Exhibit RS-23 |
|--|--|--|
| | General Description | 345-kV System Tie |
| | Length (miles) | approximately 28 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 290 |
| #2 | Corridor Sharing Opportunities | New tie from the 345-kV system to relieve system overloads in the Madison area. Additional rights-of-way will be required. State/county roads and existing transmission lines located within the screening area offer the best possibility of corridor sharing. |
| #3 | Public Lands | Numerous city, county, and state parks including Indian Lake, LaFollette, and Festbe County Parks, Governor Nelson and Lake Kegonsa State Parks, portions of the Glacial Drumlin State Trail, and several state fishery and wildlife areas are located within the screening area. |
| #4 | Sensitive Resources | Bean Lake, Red Cedar Lake, and the Hook Lake/Grass Lake state natural areas, and much of the Yahara River drainage basin are found within the screening area |
| #5 | Cultural Resources | The Koshkonong Norwegian Settlement, Bernard-Hoover Boar House, Robert M. LaFollette House, Gilmore House, Olin House, the State Capital, several effigy mound sites, numerous museums, and the Langdon Street, Sherman Avenue, Third Lake Ridge, and University Heights Historic Districts are located within the screening area. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>Deforest/Token Creek-Yahara 69-kV line</u> | | Exhibit RS-7 |
|---|--|--|
| General Description | | New line |
| Length (miles) | | approximately 1.0 |
| #1 Screening Area (Sq. mi.- length X width) | | approximately 1.7 |
| #2 Corridor Sharing Opportunities | | Highways 19 and 51 are located in the screening area. |
| #3 Public Lands | | Cherokee Marsh fishery area is located near the screening area. |
| #4 Sensitive Resources | | Cherokee Marsh and Yahara River are located near the screening area. |
| #5 Cultural Resources | | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| Miscellaneous | | Commercial and industrial land uses are common. |

| <u>Lake Delton-Birchwood 138-kV line</u> | | Exhibit RS-16 |
|---|--|--|
| General Description | | New line |
| Length (miles) | | approximately 5 |
| #1 Screening Area (Sq. mi.- length X width) | | approximately 41 |
| #2 Corridor Sharing Opportunities | | Interstate Highway 90/94, United States Highway 12, State Highway 23, several county highways and local electrical distribution lines. |
| #3 Public Lands | | Mirror Lake State Park, Dell Creek wildlife area, Hulburt Creek Woods State Natural Area and Hulburt Creek fishery area. |
| #4 Sensitive Resources | | State Natural Areas and State Parks, Dell Creek, Harrison Creek, Lake Delton, Mirror Lake, Lake Blass, International Crane Foundation are located within the screening area. |
| #5 Cultural Resources | | Cultural Map of Wisconsin identifies Dawn Manor, Seth Peterson cottage, International Crane Foundation, and the H.H. Bennett Studio within the screening area. |
| Miscellaneous | | Ho Chunk tribal lands and the Baraboo Dells Airport are located in the screening area. |

Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way

| Dunn Road-Egg Harbor 69-kV line | | Exhibit RS-8 |
|---------------------------------|--------------------------------|---|
| | General Description | Construct a second 69-kV line |
| | Length (miles) | 12.66 |
| #1 | Screening Area (Sq. mi.) | 82.7 |
| #2 | Corridor Sharing Opportunities | State Highway 42 and existing transmission line X-24A provide the best opportunities for corridor sharing, along with county and local roads. |
| #3 | Public Lands | None identified |
| #4 | Sensitive Resources | The screening area is adjacent to Lake Michigan. |
| #5 | Cultural Resources | The WHS database identifies several architectural and historic sites within the screening area, many are located near State Highway 42. |
| | Miscellaneous | There is a high probability of encountering endangered resources. |

| Eden-Muscoda-Richland Center 69-kV line | | Exhibit RS-9 |
|---|--|---|
| | General Description | New line |
| | Length (miles) | approximately 25 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 234 |
| #2 | Corridor Sharing Opportunities | Railroads, existing transmission lines, and State/United States Highways offer corridor sharing potential. |
| #3 | Public Lands | Blackhawk Lake Recreation area, Pine River public hunting grounds, and Big Spring Fishery area, and other public lands along the Wisconsin River are located in the screening area. |
| #4 | Sensitive Resources | Wisconsin River, Lower Wisconsin State Riverway, Southwest Wisconsin Driftless area topography, Big Spring Fishery area, Pine River Public Hunting Grounds, Blackhawk Lake Recreation area, Lower Wisconsin State Wildlife Area, Blue River Sand Barrens State Natural Area, Avoca Prairie Savanna State Natural Area, and Orion Mussel Bed State Natural Area are located in the screening area. |
| #5 | Cultural Resources | Court Street Commercial Historic District, Birthplace of GTE, Krouskop Park, AD German Warehouse, Eagle Effigy Mounds, proposed Ho-Chunk Cultural Park, Dr. Bertha E. Reynolds Memorial, Rural Electrification Marker are shown on the Cultural map of Wisconsin. |
| | Miscellaneous | Pierick Landing Strip |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Salem-Spring Green-West Middleton 345-kV line | | Exhibit RS-26 |
|---|--|--|
| | General Description | New line - Large Access Project |
| | Length (miles) | approximately 114 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 2480 |
| #2 | Corridor Sharing Opportunities | Numerous federal, state, and county highways, existing transmission lines, railroad corridors, and town roads offer the best opportunities for corridor sharing. |
| #3 | Public Lands | Nelson Dewey State Park, Governor Dodge State Park, Tower Hill State Park, Bluemounds State Park, Blackhawk Lake Recreational Area, Turkey River Mounds State Park (IA), White Pine Hollow State Forest Preserve (IA), Lower Wisconsin State Riverway, numerous county parks and other public lands are scattered throughout the screening area. |
| #4 | Sensitive Resources | Upper Mississippi River National Wildlife and Fish Refuge, Lower Wisconsin State Riverway, numerous Wisconsin State Natural Areas, several State Preserves and recreational areas, The Mississippi and Wisconsin Rivers and their tributaries, and various other wetlands, lakes and streams are located within the screening area. |
| #5 | Cultural Resources | The Cultural Map of Wisconsin identifies numerous cultural resources in the screening area. The potential for encountering cultural and historic resources is high in the screening area. |
| | Miscellaneous | Principal ecological landscapes include the Southwest Savanna, Western Coulee and Ridges, Central Sand Plains, and Central Sand Hills. The western portions of the screening area are generally located in Wisconsin's Driftless area. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Chalk Hills-Chandler 69 kV conversion to 138 kV | | Exhibit RS-3 |
|--|--------------------------------|--|
| | General Description | Rebuild/convert to 138-kV operation |
| | Length (miles) | 54 |
| #1 | Screening Area (Sq. mi.) | 87.54 |
| #2 | Corridor Sharing Opportunities | United States Highway 2, numerous county and local roads, and railroad corridors provide opportunities for corridor sharing. |
| #3 | Public Lands | Escanaba River State Forest, and other state owned land along RR corridor. |
| #4 | Sensitive Resources | Numerous wetlands |
| #5 | Cultural Resources | None identified |
| | Miscellaneous | There is a moderate probability of encountering endangered resources. |

| South Lake Geneva-Lake Shore 69-kV line | | Exhibit RS-27 |
|--|--------------------------------|---|
| | General Description | New line |
| | Length (miles) | 3.2 |
| #1 | Screening Area (Sq. mi.) | 13.76 |
| #2 | Corridor Sharing Opportunities | Existing roadways offer the best opportunities for corridor sharing. |
| #3 | Public Lands | Big Foot Beach State Park is located in the screening area. |
| #4 | Sensitive Resources | Lake Geneva, and a few large wetland complexes. |
| #5 | Cultural Resources | The WHS database identifies a few archaeological and historic sites near Lake Geneva. |
| | Miscellaneous | There is a moderate probability of encountering endangered resources. |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| <u>Twin Lakes-Spring Valley 138-kV line</u> | | Exhibit RS-30 |
|---|--|---|
| | General Description | New line |
| | Length (miles) | approximately 9 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 64 |
| #2 | Corridor Sharing Opportunities | Several Kenosha County highways and a railroad corridor are located within the screening area. |
| #3 | Public Lands | Silver Lake and Fox River Parks and New Munster State Wildlife area are located in the screening area. |
| #4 | Sensitive Resources | The Fox River and tributaries and several lakes are located within the screening area. Peat Lake, Silver Lake Bog, and New Munster Bog Island State Natural Areas are located in the screening area. The Elizabeth Lake wetlands and Southeast Prairie Pothole areas are located in or near the screening area. |
| #5 | Cultural Resources | No locations of cultural interest are identified on the Cultural Map of Wisconsin within the screening area. |
| | Miscellaneous | Westosha and Camp Lake Landing Strips |

| <u>Horicon-East Beaver Dam 138-kV line</u> | | Exhibit RS-14 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 9 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 65 |
| #2 | Corridor Sharing Opportunities | Highway 33, County highways, and a railroad right-of-way offer possible sharing opportunities. |
| #3 | Public Lands | Portions of Horicon Marsh and Shaw Marsh wildlife areas and the Wild Goose Trail are within the screening area. |
| #4 | Sensitive Resources | Horicon and Shaw Marsh, Rock River, Pratt Creek, Schulz Creek, Crystal Creek, Park Creek and Beaver Dam River are located in the screening area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Oak Creek-Hale (Brookdale) 345-kV line | | Exhibit RS-21 |
|---|--|--|
| | General Description | New transmission line segments along with conversion of 16 mile 138-kV segment to 345 kV. |
| | Length (miles) | approximately 24 total, 4 of new right-of-way |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 200 |
| #2 | Corridor Sharing Opportunities | Several state and county roads and existing 138, 230, and 345-kV line routes exist in the screening area. |
| #3 | Public Lands | Racine and Milwaukee County Parkland, Root River Parkway, Whitnall Park. |
| #4 | Sensitive Resources | Root River and tributaries, Big Muskego Lake, State Natural Areas (Gravel Pit Woods, Caddy Vista Woods, Stone Woods, County Line Lowland Woods, and a few locally significant areas identified in a SEWRPC report. |
| #5 | Cultural Resources | The Ben Hunt Cabin is identified in the screening area on the Cultural Map of Wisconsin. |
| | Miscellaneous | Some additional right-of-way needed, Hales Corners Airport. |

| West Middleton-North Madison 345-kV line | | Exhibit RS-33 |
|---|--|--|
| | General Description | New line |
| | Length (miles) | approximately 20 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 42 |
| #2 | Corridor Sharing Opportunities | United States Highways 12 and 14, State Highways 113 and 19, several county highways and local electrical distribution lines offer possible sharing opportunities. |
| #3 | Public Lands | Lodi Marsh wildlife area, county and local parks. |
| #4 | Sensitive Resources | Pheasant Branch, Black Earth Creek, Halfway Prairie Creek, Sixmile Creek, tributaries to the Yahara River, Brandenburg Lake, Lodi Marsh State Natural Area. |
| #5 | Cultural Resources | Cultural Map of Wisconsin does not identify any sites within the screening area. |
| | Miscellaneous | Morey Airport |

*Table RS-2
Environmental Screening Information - Lines Requiring New Right-of-Way*

| Fitzgerald-Omro Industrial 69-kV line | | Exhibit RS-12 |
|--|--|--|
| | General Description | New line |
| | Length (miles) | approximately 6 |
| #1 | Screening Area (Sq. mi.- length X width) | approximately 49 |
| #2 | Corridor Sharing Opportunities | State highways and existing transmission lines offer corridor sharing opportunities. |
| #3 | Public Lands | Lake Butte des Morts boat landings, Tower Park, Stearn's Park, Omro Ball Park, and Waukau Creek Nature Preserve are located in the screening area. |
| #4 | Sensitive Resources | Fox River, Waukau Creek Nature Preserve, Spring Brook. |
| #5 | Cultural Resources | The Cultural Map of Wisconsin does not identify any sites within the screening area, however there are several cemeteries known in the screening area. |
| | Miscellaneous | Skydive Adventure Airport |

NOTES:

- | | | |
|----|---------------------------------|---|
| #1 | Screening Area Width: | For lines 0-5 miles long, screening area width equals length of segment: for lines 5-15 miles long, screening area width equals 5 miles; for lines > 15 miles long, screening area width equals 30% of line length. |
| #2 | Corridor Sharing Opportunities: | Identify dominant corridor types. |
| #3 | Public Lands: | Identify properties by name. |
| #4 | Sensitive Resources: | List major stream crossings, significant topographic features, designated natural areas, etc. |
| #5 | Cultural Resources: | List resources shown on the statewide cultural resources map. |

*Table RS-3
Transmission Line Rebuilds/Reconductors, New Circuits and Voltage Conversions on
Existing Right-of-Way*

| Identified need | Lines to be rebuilt/reconducted on existing ROW | Approx. mileage of rebuilt, reconducted or uprated lines | Projected in-service year | Planning zone | Environmental screening provided? | Comments |
|---|---|--|---------------------------|---------------|-----------------------------------|--|
| Relieve overloads or low voltages under contingency | Reconductor Wien-McMillan 115-kV line (ATC,MEWD) | 20 | 2006 | 1 | No | Uprate/Reconductor |
| Achieve transfer capability associated with Arrowhead-Gardner Park, relieve overloads or low voltages under contingency, accommodate new generation | Reconductor Weston-Northpoint 115-kV line | 24 | 2006 | 1 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency | Construct Hiawatha-Engadine 69-kV line | 0.2 | 2006 | 2 | No | 0.2 mile - minimal work required |
| Relieve overloads or low voltages under contingency, reduce service limitations | Rebuild and convert one Hiawatha-Indian Lake 69-kV circuit to double circuit 138 kV standards, string two circuits initially and operate one at 69 kV | 40 | 2006 | 2 | No | under construction |
| Replace aging facilities, relieve overloads or low voltages under contingency, accommodate new generation | Rebuild Turtle-Bristol 69-kV line to 138 kV and operate at 69 kV | 29 | 2006 | 3 | No | under construction |
| Relieve overloads or low voltages under contingency, accommodate new generation | Convert Columbia-North Madison 138-kV line to 345 kV | 17.41 | 2006 | 3 | No | under construction |
| T-D interconnection request | Construct a Martin Road-South Fond du Lac/Ohmstead 138-kV line | 0.5 | 2006 | 4 | No | 0.5 mile - minimal impacts |
| Relieve overloads or low voltages under contingency, reduce service limitations, replace aging facilities | Rebuild Stiles-Amberg double circuit 138-kV line | 45 | 2006 | 2 & 4 | No | Detailed environmental screening information contained in filing at PSCW |
| Accommodate new generation, relieve overloads or low voltages under contingency | Rebuild Weston-Sherman St. and Sherman St-Hilltop 115-kV lines as double circuits with a new Gardner Park-Hilltop 115-kV line | 9.5 | 2007 | 1 | No | Detailed environmental screening information contained in filing at PSCW |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild Atlantic-Osceola 69-kV line (Laurium #1) | 13.7 | 2007 | 2 | Yes | |
| Relieve overloads or low voltages under contingency | Rebuild the Verona to Oregon 69-kV line Y119 | 11 | 2007 | 3 | Yes | |
| Relieve overloads or low voltages under contingency, accommodate new generation | Convert Kegonsa-McFarland-Femrite 69-kV line to 138 kV | 5.9 | 2007 | 3 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency | Convert Sycamore-Reiner-Sprecher from 69-kV to 138 kV | 6.5 | 2007 | 3 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency | String a new Ellinwood-Sunset Point 138-kV line on existing structures | 3.58 | 2007 | 4 | Yes | |
| Relieve overloads or low voltages under contingency | Uprate North Appleton-Lawn Road-White Clay 138-kV line | 29.8 | 2007 | 4 | No | Uprate/Reconductor |
| Achieve transfer capability associated with Arrowhead-Gardner Park | Upgrade Kelly-Whitcomb 115-kV line conductor clearances to 300F | 24 | 2008 | 1 | No | Uprate/Reconductor |

*Table RS-3
Transmission Line Rebuilds/Reconductors, New Circuits and Voltage Conversions on
Existing Right-of-Way*

| Identified need | Lines to be rebuilt/reconducted on existing ROW | Approx. mileage of rebuilt, reconducted or uprated lines | Projected in-service year | Planning zone | Environmental screening provided? | Comments |
|---|---|--|---------------------------|---------------|-----------------------------------|--|
| Relieve overloads or low voltages under contingency | Rebuild Hustisford-Horicon 69-kV to 138 kV | 8 | 2008 | 3 | Yes | |
| Relieve overloads or low voltages under contingency | Convert Rock River-Bristol-Elkhorn to 138 kV operation; rebuild Bristol with a new 138-kV bus | 27.74 | 2008 | 3 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency | Construct 138-kV line from Canal to Dunn Road | 7.64 | 2008 | 4 | Yes | |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild/Convert Pulliam-New Suamico 69-kV line to 138 kV | 10.2 | 2008 | 4 | Yes | |
| Relieve overloads or low voltages under contingency, reduce service limitations | Uprate North Appleton-Mason Street 138-kV line | 21 | 2008 | 4 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency, reduce service limitations | Uprate North Appleton-Lost Dauphin 138-kV line | 12 | 2008 | 4 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency | Rebuild Crivitz-High Falls 69-kV double circuit line | 14.5 | 2008 | 4 | Yes | |
| Accommodate new generation | Reconductor Pleasant Valley-Saukville 138-kV line | 12 | 2008 | 5 | No | Uprate/Reconductor |
| Accommodate new generation | Reconductor Pleasant Valley-St Lawrence 138-kV line | 7 | 2008 | 5 | No | Uprate/Reconductor |
| Accommodate new generation | Reconductor Cornell-Range Line 138-kV line | 2.43 | 2008 | 5 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency, transfer capability | Rebuild/convert Conover-Plains 69-kV line to 138 kV | 73 | 2008 | 1 & 2 | Yes | |
| Reduce service limitations, relieve overloads or low voltages under contingency, improve transfer capability and Weston stability | Construct Gardner Park-Central Wisconsin 345-kV line | 47 | 2009 | 1 | No | Detailed environmental screening information contained in filing at PSCW |
| Replace aging facilities | Relocate 69-kV Rexton tap to 69-kV Hiawatha Pine River line (6909) | 0 | 2009 | 2 | No | 0 miles |
| Replace aging facilities | Relocate 69-kV Trout Lake tap to 69-kV Hiawatha-Pine River line (6909) | 0 | 2009 | 2 | No | 0 miles |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild Hiawatha-Pine River-Mackinac 69-kV to 138 kV | 75 | 2009 | 2 | Yes | |
| Relieve overloads or low voltages under contingency, reduce service limitations | Convert rebuilt Hiawatha-Indian Lake circuit (operated at 69 kV) to 138 kV | 40 | 2009 | 2 | No | Conversion only - no construction |
| Relieve overloads or low voltages under contingency | Rebuild 2.37 miles of 69-kV line from Sunset Point to Pearl Avenue | 2.37 | 2009 | 4 | Yes | |
| Accommodate new generation | Reconductor Oak Creek-Ramsey 138-kV line | 8.5 | 2009 | 5 | No | Uprate/Reconductor |

*Table RS-3
Transmission Line Rebuilds/Reconductors, New Circuits and Voltage Conversions on
Existing Right-of-Way*

| Identified need | Lines to be rebuilt/reconducted on existing ROW | Approx. mileage of rebuilt, reconducted or uprated lines | Projected in-service year | Planning zone | Environmental screening provided? | Comments |
|---|---|--|---------------------------|---------------|-----------------------------------|-----------------------------------|
| Accommodate new generation | Reconductor Oak Creek-Allerton 138-kV line | 5.41 | 2009 | 5 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency, reduce service limitations | Construct Rockdale-Concord 345-kV line in parallel with existing 138 kV on existing double-width right-of-way | 22.6 | 2009 | 3 & 5 | Yes | |
| Access initiative, relieve overloads or low voltages under contingency | Construct Monroe County-Council Creek 161-kV line | 20 | 2010 | 1 | Yes | |
| Access initiative, relieve overloads or low voltages under contingency | Uprate Council Creek-Petenwell 138-kV line | 32 | 2010 | 1 | No | Uprate/Reconductor |
| Access initiative, relieve overloads or low voltages under contingency | Rebuild/reconductor Petenwell-Saratoga 138-kV line | 23 | 2010 | 1 | Yes | |
| Relieve overloads or low voltages under contingency | Convert Hillman to Eden 69-kV line to 138 kV | 28.13 | 2010 | 3 | No | Conversion - minimal site work |
| Relieve overloads or low voltages under contingency | Rebuild Brodhead to South Monroe 69-kV line using 477 ACSR | 18 | 2010 | 3 | Yes | |
| Relieve overloads or low voltages under contingency | Convert Waunakee-Blount 69-kV line to 138 kV | 5 | 2010 | 3 | No | Conversion - minimal site work |
| Access initiative | Rebuild/convert New Holstein-St Nazianz-Custer-Lakefront 69-kV line to 138 kV (1225 Amps minimum) | 20 | 2010 | 4 | Yes | |
| Access initiative | Rebuild Tecumseh Road-New Holstein to double circuit 138/69 kV, where 69 kV will serve Gravesville via New Holstein | 2.5 | 2010 | 4 | Yes | |
| Accommodate new generation | Loop Ramsey5-Harbor 138-kV line into Norwich and Kansas to form a new line from Ramsey-Norwich and Harbor-Kansas 138-kV lines | 5.72 | 2009 | 5 | | |
| Accommodate new generation | Uprate Kansas-Ramsey6 138-kV line | 5.72 | 2010 | 5 | No | Uprate/Reconductor |
| Accommodate new generation | Uprate Oak Creek-Nicholson 138-kV line | 6.8 | 2010 | 5 | No | Uprate/Reconductor |
| Relieve overloads or low voltages under contingency, accommodate new generation | Convert Bark River-Mill Road 138-kV line to 345 kV | 11 | 2010 | 3 & 5 | No | Conversion only - no construction |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild Blaney Park-Munising 69-kV line to 138 kV | 50 | 2012 | 2 | Yes | |
| Relieve overloads or low voltages under contingency | Rebuild and convert West Middleton-Spring Green 69-kV line to 138 kV | 5.71 | 2012 | 3 | Yes | |
| Relieve overloads or low voltages under contingency | Construct West Middleton-Stagecoach double circuit 138/69-kV line | 6 | 2012 | 3 | Yes | |
| Access initiative | Rebuild Paddock-Town Line Road 138-kV line to double-circuit 1600 Amps minimum summer emergency each | 7 | 2013 | 3 | Yes | |
| Access initiative | Reconductor Town Line Road-Russell 138-kV line to 1600 Amps minimum summer emergency | 8.3 | 2013 | 3 | Yes | |

*Table RS-3
Transmission Line Rebuilds/Reconductors, New Circuits and Voltage Conversions on
Existing Right-of-Way*

| Identified need | Lines to be rebuilt/reconducted on existing ROW | Approx. mileage of rebuilt, reconducted or uprated lines | Projected in-service year | Planning zone | Environmental screening provided? | Comments |
|---|---|--|---------------------------|---------------|-----------------------------------|---------------------------------|
| Relieve overloads or low voltages under contingency | Convert South Lake Geneva to Twin Lakes 69-kV line to 138 kV | 11.5 | 2013 | 3 | No | Conversion - minimal site work |
| Accommodate new generation | Construct Oak Creek-St Martins 138-kV circuit #2 installing 16.6 mi. conductor on existing towers | 16.6 | 2013 | 5 | Yes | |
| Accommodate new generation | Construct a Hale (Brookdale)-Granville 345-kV line converting/reconducting 5.6 mi. 138 kV, rebuilding 7 mi. 138-kV double-circuit tower line and converting/reconducting 3 mi. 138 kV on existing 345-kV structures | 15.6 | 2013 | 5 | Yes | |
| Accommodate new generation | Restrung Bluemound-Butler 138-kV line (KK5051) on new 345-kV structures installed with Hale (Brookdale)-Granville line | 5.41 | 2013 | 5 | No | Included in Brookdale-Granville |
| Accommodate new generation | String Butler-Tamarack (Carmen) 138-kV line on new 345-kV structures installed with Hale (Brookdale)-Granville line | 4.12 | 2013 | 5 | No | Included in Brookdale-Granville |
| Relieve overloads or low voltages under contingency | Construct West Middleton-Blount 138-kV line | 5 | 2014 | 3 | Yes | |
| Relieve overloads or low voltages under contingency | Construct a Northside-City Limits 138-kV line | 3.16 | 2015 | 4 | Yes | |
| Relieve overloads or low voltages under contingency | Reconductor Pulliam-Danz 69-kV line | 3 | 2015 | 4 | Yes | |
| Relieve overloads or low voltages under contingency | Reconductor Danz-Henry Street 69-kV line | 1.5 | 2015 | 4 | Yes | |
| Relieve overloads or low voltages under contingency | Reconductor Pulliam-Van Buren 69-kV line | 2 | 2015 | 4 | Yes | |
| Relieve overloads or low voltages under contingency, replace aging facilities | Rebuild/Convert New Suamico-Pioneer 69-kV line to 138 kV | 13.1 | 2015 | 4 | Yes | |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| <u>Atlantic-Osceola 69-kV line (Laurium #1) rebuild</u> | |
|---|--|
| General Description | Rebuild |
| Length (miles) | 13.7 |
| #1 Screening Area (Sq. mi.- length X width) | Existing Corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | Extensive wetlands and forested lands are located along the route. |
| #5 Cultural Resources | Cultural resources may be found in the area due to the proximity to the shore of Lake Superior and the Portage River and Ship Canal. |
| Miscellaneous | Much of the route follows existing road and railroad corridors. |

| <u>Verona-Oregon 69-kV line rebuild</u> | |
|---|--|
| General Description | Rebuild |
| Length (miles) | 11 |
| #1 Screening Area (Sq. mi.- length X width) | Existing Corridor |
| #2 Corridor Sharing Opportunities | N/A - Existing transmission line corridor. |
| #3 Public Lands | Hook Lake and Grass Lake Wildlife Area and Natural Area, USFWS land. |
| #4 Sensitive Resources | Potential crossing of a few unnamed streams, limited wetlands, low potential to encounter threatened and endangered species. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no historic resources in the vicinity of the existing line |
| Miscellaneous | The Muck Farms Airport, Tesmer Field, and Ha-Rail Field are located in the screening area. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Ellinwood-Sunset Point 138-kV line | |
|---|---|
| General Description | String a new line on existing structures |
| Length (miles) | 3.58 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | Fox River Crossing |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no historic resources in the vicinity of the existing line. |
| Miscellaneous | |
| Hustisford-Horicon 69 kV to 138 kV conversion | |
| General Description | Rebuild to 138 kV |
| Length (miles) | 8 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Existing line is adjacent to 40 acres of Wisconsin DNR public hunting grounds. |
| #4 Sensitive Resources | The existing line crosses extensive wetland areas and requires crossing Wildcat Creek and the Rock River. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no historic resources in the vicinity of the existing line |
| Miscellaneous | CPCN application to be filed 11/05. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Canal-Dunn Road 69-kV line | |
|---|--|
| General Description | Construct line |
| Length (miles) | 7.64 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses Sturgeon Bay and one unnamed stream. |
| #5 Cultural Resources | There is low probability of encountering endangered resources. |
| Miscellaneous | |

| Pulliam - New Suamico 69 kV to 138 kV conversion | |
|--|---|
| General Description | Rebuild 69-kV line to 138 kV |
| Length (miles) | 10.2 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | No state-owned lands were identified along the route. |
| #4 Sensitive Resources | Green Bay, Duck Creek, Fox and Suamico Rivers, Duck and Haller Creeks, and associated wetland areas are found along this route. |
| #5 Cultural Resources | Due to the proximity of this route to Green Bay near the mouth of the Fox River, there is a moderate to high likelihood of encountering archaeological resources on this route. |
| Miscellaneous | Due to the proximity of this route to Green Bay and the Fox River, there is a moderate to high likelihood of encountering rare species on this route. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Crivitz-High Falls 69-kV line rebuild | |
|--|---|
| General Description | Rebuild double circuit line |
| Length (miles) | 14.5 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Line passes through more than 1 mile of DNR land. |
| #4 Sensitive Resources | The existing line nears and crosses the Peshtigo River (designated as an Outstanding Resource Water) multiple times, crosses approximately 4 other streams, and passes through several wetland areas. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies the High Falls Hydroelectric Plant as a historic resource. |
| Miscellaneous | This route passes primarily through undeveloped forested areas. |

| Conover-Plains 69 kV to 138 kV conversion | |
|--|---|
| General Description | Rebuild existing 69-kV line to 138 kV |
| Length (miles) | 73 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Significant portions of this route are located on lands owned by the United States, States of Wisconsin and Michigan, and counties along the route. |
| #4 Sensitive Resources | The line route crosses lands in national, state, and county forests and parks, numerous rivers, streams and wetland areas. The line route also crosses Spread Eagle barrens State Natural Area. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies historic resources in Florence. Due to the proximity to the Menomonee River and numerous other rivers and lakes, there is a good likelihood that archaeological and historic resources are located along this route. |
| Miscellaneous | There is a high probability of encountering rare species. Much of this line passes through undeveloped and forested areas. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Hiawatha-Pine River-Mackinac 69 kV to 138 kV conversion | |
|--|---|
| General Description | Rebuild to 138 kV |
| Length (miles) | 75 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | The majority of the existing line passes through the Hiawatha National Forest and the Lake Superior State Forest. |
| #4 Sensitive Resources | Numerous wetlands and streams. |
| #5 Cultural Resources | Cultural resources may be found in the area due to the proximity to the shore of Lake Michigan. |
| Miscellaneous | There is a high probability of encountering rare species. This line passes through primarily undeveloped forested areas. |
| Sunset Point-Pearl Avenue 69-kV line rebuild | |
| General Description | Rebuild a portion of the line |
| Length (miles) | 2.37 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Riverside Cemetery |
| #4 Sensitive Resources | The existing line is adjacent to the Fox River, and passes through a few wetland areas. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies several historic sites located in the vicinity of the existing corridor along the Fox River. |
| Miscellaneous | The existing line passes through primarily urbanized areas. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Rockdale-Concord 345-kV line | |
|---|--|
| General Description | Construct 345-kV line parallel to existing 138-kV line in existing double-width right-of-way |
| Length (miles) | 73 |
| #1 Screening Area (Sq. mi.- length X width) | Existing double-width corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | The route crosses the Glacial Drumlin Trail, but no other state owned lands or large parks were identified. |
| #4 Sensitive Resources | The route crosses the Rock and Crawfish River, Johnson Creek, and several wetland areas. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies historic sites within the cities of Tcambridge, Lake Mills, and Watertown along the route. There is a moderately high likelihood of archaeological resources along this line route. |
| Miscellaneous | There is a low to moderate probability of encountering endangered resources. |

| Monroe County-Council Creek 161-kV line | |
|--|--|
| General Description | Construct line |
| Length (miles) | 20 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Elroy-Sparta State Trail, Fort McCoy Barrens State Natural Area |
| #4 Sensitive Resources | The existing line crosses a number of waterways and associated wetland areas, including: Farmers Valley Creek, Silver Creek, Chub Creek, Council Creek, South Fork Lemon weir River, and some unnamed streams. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies historic sites within the cities of Tomah and Sparta, along with the Elroy-Sparta state trail. |
| Miscellaneous | There is a moderate probability of encountering endangered resources. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Petenwell-Saratoga 138-kV line rebuild | |
|---|--|
| General Description | Rebuild |
| Length (miles) | 23 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | Portions of the existing line are adjacent to Petenwell Lake, and cross the Wisconsin River at the base of the lake. The line also crosses numerous wetlands associated with Petenwell Lake and the Wisconsin River. Sevenmile Creek, Tenmile Creek, Fourteenmile Creek, and their associated wetlands also must be crossed. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no historic resources along the existing corridor. |
| Miscellaneous | |

| Brodhead-South Monroe 69-kV line rebuild | |
|---|---|
| General Description | Rebuild |
| Length (miles) | 18 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses a number of streams. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies a number of historic sites in and around the City of Monroe. |
| Miscellaneous | There is a low potential for encountering endangered resources. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| New Holstein-St. Nazianz-Custer-Lakefront 69 kV to 138 kV conversion | |
|---|---|
| General Description | Rebuild to 138 kV |
| Length (miles) | 20 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | No state-owned lands were identified. The route may cross local and county owned parklands |
| #4 Sensitive Resources | The route crosses Pine, Cedar, Mud, and Silver creeks and several wetland areas. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies St. Nazianz as a historic resource. Several historic properties and archaeological sites are known on or near the route. |
| Miscellaneous | There is a low-moderate probability of encountering rare species. |

| Tecumseh Road-New Holstein rebuild as double-circuit 138/69-kV line | |
|--|--|
| General Description | Rebuild as double-circuit 138/69-kV |
| Length (miles) | 2.5 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | Route crosses one unnamed tributary of Pine Creek and very few wetland areas |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no historic resources in the vicinity of the project. |
| Miscellaneous | There is a low potential for encountering endangered resources. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Loop Ramsey5-Harbor 138-kV line into Norwich and Kansas | |
|---|--|
| General Description | New 138-kV circuit in existing right-of-way |
| Length (miles) | 5.7 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | None identified |
| #5 Cultural Resources | None identified |
| Miscellaneous | The existing line is located in an urbanized area. There is a low probability of rare species. |

| Blaney Park-Munising 69 kV to 138 kV conversion | |
|---|--|
| General Description | Rebuild to 138 kV |
| Length (miles) | 50 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Hiawatha National Forest, Escanaba River State Forest, Lake Superior State Forest, and Seney National Wildlife Refuge. |
| #4 Sensitive Resources | The existing line passes through numerous wetlands. |
| #5 Cultural Resources | None identified |
| Miscellaneous | There is high potential for encountering rare species. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| West Middleton-Spring Green 69 kV to 138 kV conversion | |
|---|---|
| General Description | Rebuild and convert to 138 kV |
| Length (miles) | 5.71 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | Lower Wisconsin State Riverway, Black Earth Fishery Area, Arena Pines Sand Barrens – State Natural Area. |
| #4 Sensitive Resources | The existing line crosses the Wisconsin River and associated wetlands and tributaries. Portions of the line run parallel to Black Earth Creek, and crosses associated wetlands and tributaries. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies downtown Mazomanie as a historic district. |
| Miscellaneous | There is a high potential to encounter endangered resources. |
| West Middleton - Stagecoach double-circuit 138/69-kV line | |
| General Description | Construct double-circuit |
| Length (miles) | 6 |
| #1 Screening Area (Sq. mi.- length X width) | Existing line |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses a few streams and a few wetlands |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no historic resources in the vicinity of the project. |
| Miscellaneous | There is a moderate potential of encountering endangered resources. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Paddock-Town Line Road 138-kV line rebuild | |
|---|---|
| General Description | Rebuild to double circuit |
| Length (miles) | 7 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | |
| #5 Cultural Resources | The existing line crosses a few streams and associated wetlands. The Cultural Map of Wisconsin identifies no resources in the vicinity of the project. |
| Miscellaneous | There is low probability of encountering rare species. |

| Townline Road-Russell 138-kV line reconductor | |
|--|---|
| General Description | Reconductor |
| Length (miles) | 8.3 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | The existing line is adjacent to DNR owned land along the Rock River |
| #4 Sensitive Resources | |
| #5 Cultural Resources | The existing line crosses Bass Creek, and a few streams and limited wetlands. Much of the existing line is adjacent to the Rock River. The Cultural Map of Wisconsin identifies no cultural resources in the project area. |
| Miscellaneous | Much of the existing line runs through urbanized areas. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Oak Creek-St. Martins 138-kV line | |
|---|--|
| General Description | Add new conductor to existing structures |
| Length (miles) | 16.6 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | No state-owned lands or major parklands are crossed on this route. |
| #4 Sensitive Resources | The Root River , Ryan Creek and associated wetland areas are crossed on this route. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no cultural resources in the project area. The route does pass near several known archaeological sites. |
| Miscellaneous | There is a moderate potential of encountering endangered resources. |

| Hale (Brookdale)-Granville convert 138 kV to 345 kV | |
|--|---|
| General Description | Convert/reconductor on existing structures |
| Length (miles) | 15.6 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | No state owned lands identified, route crosses several local and county owned parks and parkways. |
| #4 Sensitive Resources | Route crosses the Root River, Underwood Creek, and the Little Menomonee Rivers. |
| #5 Cultural Resources | Route passes through or adjacent to 3 archaeological sites |
| Miscellaneous | Much of the existing line runs through urbanized areas. There is a low-moderate probability of encountering rare species. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| West Middleton-Blount 138-kV line | |
|---|--|
| General Description | Construct 138-kV line |
| Length (miles) | 5 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | The existing line parallels a recreational trail and golf course. |
| #4 Sensitive Resources | This line is primarily through a highly urbanized area, much of the existing line is underground. There are a few small wetlands and unnamed streams near the existing overhead portions east of West Middleton. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies a number of historic resources in the vicinity of the existing corridor. |
| Miscellaneous | |
| Northside-City Limits 138-kV line | |
| General Description | Construct 138-kV line |
| Length (miles) | 3.16 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses two streams and one wetland. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no resources in the project area. |
| Miscellaneous | There is low potential for encountering rare species. The existing line passes through a highly urbanized area. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| Pulliam-Danz-Henry Street 69-kV line reconductor | |
|---|--|
| General Description | Reconductor |
| Length (miles) | 4.5 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses the Fox River and a large expanse of wetlands. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies the Beach Bay Wildlife Sanctuary near the project area. |
| Miscellaneous | This route passes through primarily urbanized areas. |

| Pulliam - Van Buren 69-kV line reconductor | |
|---|--|
| General Description | Reconductor |
| Length (miles) | 2 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses the Fox River. |
| #5 Cultural Resources | The Cultural Map of Wisconsin identifies no cultural resources in the vicinity of the project. |
| Miscellaneous | This route passes through primarily urbanized areas. |

*Table RS-4
Environmental Screening Information - Lines on Existing Right-of-Way*

| New Suamico-Pioneer 69 kV to 138 kV conversion | |
|--|--|
| General Description | Rebuild/Convert to 138 kV |
| Length (miles) | 13.1 |
| #1 Screening Area (Sq. mi.- length X width) | Existing corridor |
| #2 Corridor Sharing Opportunities | N/A – existing transmission line corridor. |
| #3 Public Lands | None identified |
| #4 Sensitive Resources | The existing line crosses numerous wetlands and streams, including the Oconto, Pensaukee, and Little Suamico Rivers; Spring Creek, Brookside Creek, Kirchner Creek, and several unnamed streams. |
| #5 Cultural Resources | The Cultural Resources Map of Wisconsin identifies one historic site within the Town of Suamico. |
| Miscellaneous | |

NOTES:

- | | |
|------------------------------------|--|
| #1 Screening Area Width: | For projects on existing rights-of-way the screening area consists of the current location and lands immediately adjacent. |
| #2 Corridor Sharing Opportunities: | Identify dominant corridor types. |
| #3 Public Lands: | Identify properties by name. |
| #4 Sensitive Resources: | List major stream crossings, significant topographic features, designated natural areas, etc. |
| #5 Cultural Resources: | List resources shown on the statewide cultural resources map. |