



# section 7 Environmental Assessment

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This section summarizes the environmental screening information for projects involving new transmission line construction requiring new right-of-way. Table VII-1 below lists the new transmission lines requiring new right-of-way and whether environmental screening information is provided in this report or can be found in application materials already filed with the PSC. It should also be noted that 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 VII-2 below provides environmental screening information for the lines listed in Table VII-1. Exhibits VII-1 through VII-33 are figures identifying the approximate end-points and study areas for each project for which high level environmental screening information is provided.

The projects below do not reflect the entire number of projects listed in this report 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 VII-1 Identified Needs and Proposed Transmission Lines Requiring New Right-of-Way (Environmental Assessment)

Planned Additions	Planning Zone	Need Category	Planned, Proposed or Conceptual	Environmental Screening Provided?	Comments
Construct an Endeavor-Wautoma/Portage Tap 69 kV line	1	T-D Interconnection	Planned	no	Environmental information included in Portage-Montello filing at PSC
Construct 138 kV double circuit line from Townline Road to Rock River	3	reliability, new generation	Planned	no	Environmental information included with Calpine filing at PSC - CPCN approved.
Construct an Omro Industrial-Berlin/Omro 69 kV line	1	T-D Interconnection	Planned	yes	
Construct Artesian-Zobel 138 kV line	3	reliability	Planned	yes	
Construct Fitchburg-Tokay-Westowne 69 kV underground line	3	T-D interconnection	Planned	no	Environmental information included with filing at PSC - CPCN approved.
Construct an Eagle River-Cranberry/Three Lakes 115 kV line	1	T-D interconnection	Proposed	yes	
Construct Weston-Stone Lake 345 kV line	1	service limitation, reliability, import capability and Weston stability	Planned	no	Environmental information included with filing at PSC - CPCN approved.
Rebuild Skanawan-Highway 8 115 kV line to double circuit 115 kV	1	reliability	Planned	no	Environmental information included in Rhinelander Loop filing at PSC
Construct 138 kV line from Venus to new Crandon Substation (operate at 115 kV)	1	T-D interconnections	Proposed	yes	
Construct new 69 kV line from Columbia to Rio to feed the proposed Wycocena substation	3	T-D interconnection, reliability	Proposed	yes	
Construct new line from West Darien to Southwest Delavan to Delavan at 138 kV, operate at 69 kV	3	T-D interconnection	Planned	yes	
Construct a Waukesha-Duplainville-Sussex 138 kV line	5	T-D interconnection	Planned	yes	
Construct Clear Lake-Arnett Road 115 kV line	1	T-D interconnection	Proposed	yes	
Construct 138 kV line from Crandon to new Laona and operate at 115 kV	1	T-D interconnection	Proposed	yes	

Table VII-1 (continued) Identified Needs and Proposed Transmission Lines Requiring New Right-of-Way (Environmental Assessment)

Planned Additions	Planning Zone	Need Category	Planned, Proposed or Conceptual	Environmental Screening Provided?	Comments
Construct a Jefferson-Lake Mills-Stony Brook 138 kV line	3	reliability, T-D interconnection	Proposed	yes	
Construct 138 kV line from Erdman to Howard's Grove	4	T-D interconnection	Planned	yes	
Construct 2.5 miles of 138 kV line from Lodestar to Sheboygan Falls	4	reliability	Proposed	yes	
Construct Cranberry-Conover 138 kV line	1	transfer capability, reliability	Proposed	yes	
Loop the Femrite to Royster 69 kV line into AGA Gas	3	reliability	Proposed		
Construct South Beaver Dam-North Beaver Dam 138 kV line	3	reliability	Proposed	yes	
Construct Sprecher-Femrite 138 kV line	3	reliability, new generation	Proposed	yes	
Construct new 138 kV line from Verona to Southeast Fitchburg Substation	3	reliability	Conceptual	yes	
Construct 138 kV line from Canal to Dunn Rd	4	reliability	Proposed	yes	
Construct an Oak Creek-Brookdale 345 kV line installing 4 mi. new structures, converting 16.2 mi. of non-operative 230 kV and 5 mi. 138 kV	5	new generation	Proposed	yes	
Construct Oak Creek-St Martins 138 kV circuit #2 installing 4 mi. new structures and conductor, plus 12.6 mi. conductor on existing towers	5	new generation	Proposed	yes	
Construct Stone Lake-Arrowhead 345 kV line	1	service limitation, reliability, import capability and Weston stability	Planned	no	Environmental information included with filing at PSC - CPCN approved.
Construct St. Germain-Boulder Junction 115 kV line	1	T-D interconnection	Conceptual	yes	
Construct Fitzgerald-Omro Industrial 69 kV line	1	reliability	Conceptual	yes	

Table VII-1 (continued) Identified Needs and Proposed Transmission Lines Requiring New Right-of-Way (Environmental Assessment)

Planned Additions	Planning Zone	Need Category	Planned, Proposed or Conceptual	Environmental Screening Provided?	Comments
Construct new 138 kV line from Twin Lakes to Spring Valley	3	reliability	Conceptual	yes	
Construct new 138 kV line from South Lake Geneva to North Lake Geneva	3	reliability	Conceptual	yes	
Construct new 69 kV line from Brooklyn to Belleville Substation	3	reliability	Proposed	yes	
Construct 345 kV line from Rockdale through Kegonsa to West Middleton	3	reliability	Proposed	yes	
Construct Spring Green-Prairie du Sac 69 kV line	3	reliability, T-D interconnection	Proposed	yes	
Construct Morgan-Werner West 345 kV line	4	reliability, service limitation	Proposed	yes	
Construct a Concord-Bark River 345 kV line	3 and 5	reliability	Proposed	yes	
Construct Oak Creek-Racine 345 kV line with 4 mi new structures and conductor, plus convert 9.6 mi. 138 kV line KK812 to 345 kV	5	new generation	Proposed	yes	
Construct 345 kV line from Paddock to new Verona 345 kV switchyard; loop Kegonsa-West Middleton 345 kV line into Verona	3	reliability, transfer capability	Conceptual	yes	
Construct 69 kV line Eden through Muscoda to Richland Center	3	reliability	Conceptual	yes	

Table VII-2 2003 Screening Information for Projects Requiring New Right-of-Way

<b>Endeavor-Wautoma/Portage 69 kV Line</b>	Environmental information included in Portage-Montello filing at PSC.
<b>Riverside - Rock River 138 kV line</b>	Environmental information included with Calpine filing at PSC - CPCN Approved
<b>Omro Industrial-Berlin/Omro 69 kV line</b>	
General Description	New line
Length (miles)	approximately 1.9
Study Area (square miles-length times width)	approximately 9.7
Corridor Sharing Opportunities	State highways and existing transmission corridors offer corridor sharing opportunities.
Public Lands	Tower Park, Omro Ball Park, Stearn's Park, Fox and Hounds Parks, Riverside Park, and Scott Park are located in the study area.
Sensitive Resources	The Fox River is located in the study area.
Cultural Resources	Omro Historical Museum, Omro Cemetery
Miscellaneous	
<b>Artesian - Zobel 138 kV line</b>	
General Description	New line
Length (miles)	approximately 1.3
Study Area (square miles-length times width)	approximately 1.5
Corridor Sharing Opportunities	Existing town roads offer the best opportunity for corridor sharing.
Public Lands	None
Sensitive Resources	Nishan Memorial Park
Cultural Resources	None listed
Miscellaneous	
<b>Fitchburg-Tokay-Westowne 69 kV underground line</b>	Environmental Information included with filing at PSC - CPCN Approved

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

<b>Eagle River-Cranberry/Three Lakes 115kV line</b>	
General Description	New line - interconnection with proposed WPS substation
Length (miles)	approximately 0.7
Study Area (square miles-length times width)	approximately 1.0
Corridor Sharing Opportunities	Vilas County roads/ municipal streets. Possible sharing with local electrical distribution lines.
Public Lands	None shown.
Sensitive Resources	Mud Creek is within the study area.
Cultural Resources	Cultural Map of Wisconsin does not identify any sites within the project area.
Miscellaneous	
<b>Weston - Stone Lake 345kV line</b>	
Environmental Information included with filing at PSC - CPCN Approved	
<b>Skawanaw to Highway 8 115kV line</b>	
Environmental Information included in Rhinelander Loop filing at PSC.	
<b>Venus-New Crandon 115/138kV line</b>	
General Description	New line
Length (miles)	approximately 13
Study Area (square miles-length times width)	approximately 83
Corridor Sharing Opportunities	Wisconsin State Hwys. 45/8/32 within study zone. Existing 115 kV transmission right-of-way in western 1/4 of study zone. Several railroads present. Electric distribution line parallels much of Wisconsin Hwy. 8.
Public Lands	Chequamegan-Nicolet National Forest, Veterans Memorial Park, Little Rice Wildlife Area, Wolf River Tower Site, Statewide Natural Areas, Statewide Spring Ponds and scattered forestlands.
Sensitive Resources	Numerous lakes, headwaters to the Wolf River, streams, wetlands and forest.
Cultural Resources	Potawatomi Indian Reservation and high potential for other historical and cultural resources within study zone.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Columbia - Rio 69 kV line	
General Description	New line
Length (miles)	approximately 9
Study Area (square miles-length times width)	approximately 65
Corridor Sharing Opportunities	State highways, railroads, and existing transmission line rights-of-way offer opportunity for corridor sharing.
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 study area.
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 study area.
Cultural Resources	The Cultural Map of Wisconsin does not identify any sites within the project area, however there are several cemeteries known in the study area.
Miscellaneous	Several airfields and landing strips are found in the study area.
West Darien-Southwest Delavan-Delavan 138/69 kV line	
General Description	New line
Length (miles)	approximately 5
Study Area (square miles-length times width)	approximately 45
Corridor Sharing Opportunities	Federal highway, state and county roads, railroad corridor, and existing electrical distribution lines routes located within the project corridor offer the best potential for corridor sharing.
Public Lands	Turtle Creek Hunting Grounds
Sensitive Resources	Turtle Creek Wildlife Area, streams, small lakes and wetlands.
Cultural Resources	Clown Hall of Fame, Circus Colony, Wisconsin's First School for the Deaf marker.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Waukesha-Duplainville-Sussex 138 kV line	
General Description	New lines feeding a new Duplainville substation.
Length (miles)	approximately 8
Study Area (square miles-length times width)	approximately 59
Corridor Sharing Opportunities	State and county roads, railroad corridor, and existing electrical distribution line routes located within the study area offer the best potential for corridor sharing.
Public Lands	Frame Park, Waukesha County Fairgrounds and Waukesha Airport are among the larger publicly owned lands in the project area.
Sensitive Resources	Busse Woods, Fox River, and Pewaukee River are all located within the project area.
Cultural Resources	Cultural Map of Wisconsin does not identify any sites within the project area.
Miscellaneous	
Clear Lake - Arnett Rd 115 kV line	
General Description	New line - interconnection with proposed WPS substation
Length (miles)	approximately 6.0
Study Area (square miles-length times width)	approximately 50
Corridor Sharing Opportunities	State Hwy. 47, county highways and railroad corridors offer opportunities for sharing.
Public Lands	Northern Highland - American Legion State Forest, Brandy Lake Park.
Sensitive Resources	None known.
Cultural Resources	There is a high potential for historic and cultural resources within the study area.
Miscellaneous	Lakeland/Noble F. Lee Memorial airport is within the study area.



Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Crandon-New Laona 115/138 kV line	
General Description	New line
Length (miles)	approximately 12
Study Area (square miles-length times width)	approximately 78
Corridor Sharing Opportunities	Wisconsin State Hwys. 45/8/32 within study zone. Several railroads present. Electric distribution line parallels much of Wisconsin Hwy. 8.
Public Lands	Chequamegan-Nicolet National Forest, Veterans Memorial Park, Little Rice Wildlife Area, Wolf River Tower Site, Statewide Natural Areas, scattered forestlands, Statewide Spring Ponds, and state-owned islands on Lake Lucerne.
Sensitive Resources	Laona Hemlock Hardwoods, numerous lakes, headwaters to the Wolf River, streams, wetlands and forest.
Cultural Resources	Potawatomi Indian Reservation and high potential for other historical and cultural resources within study zone. Nicolet Scenic Rail, Laona School Forest, the Camp Five Museum and Ecology Complex are listed on the Cultural Map of Wisconsin in the study area.
Miscellaneous	
Jefferson - Lake Mills - Stony Brook 138 kV line	
General Description	New line
Length (miles)	approximately 12
Study Area (square miles-length times width)	approximately 78
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 study zone
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 study area.
Sensitive Resources	Several lakes (Rock, Bean, Marsh, and Mud), The Crawfish and Rock Rivers and their tributaries are located in the study area. Bean Lake and Waterloo Prairie State Natural Areas are located in the study area and the Snapper and Falville Prairie State Natural Areas are located near the study area.
Cultural Resources	Aztalan Museum and Aztalan State Park are identified on the Cultural Map of Wisconsin within the study area.
Miscellaneous	The Muck Farms Airport, Tesmer Field and Ha-Rail Field are located in the study area.

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Howard's Grove-Erdman 138 kV line	
General Description	New line
Length (miles)	approximately 4.7
Study Area (square miles-length times width)	approximately 43
Corridor Sharing Opportunities	Interstate Hwy. 43, State Hwys. 23/32/42 are located within the study zone as well as County Hwys. J/JJ/Y.
Public Lands	None Shown.
Sensitive Resources	Scattered wetlands, streams, some forested lands, and extensive agricultural lands are present in the study area.
Cultural Resources	None Shown.
Miscellaneous	
Lodestar - Sheboygan Falls 138 kV line	
General Description	New line
Length (miles)	approximately 2
Study Area (square miles-length times width)	approximately 10
Corridor Sharing Opportunities	State highways, county roads, railroad corridor, and existing transmission corridors may offer opportunities for corridor sharing.
Public Lands	Local parks along the Sheboygan River.
Sensitive Resources	Sheboygan River
Cultural Resources	The Cole Historic District, Downtown Historic District, historical sites and museum near Kohler, and four cemeteries are located in the study area.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Cranberry - Conover 138 kV line	
General Description	New line
Length (miles)	approximately 11
Study Area (square miles-length times width)	approximately 74
Corridor Sharing Opportunities	State Hwys. 32/45 and 17, county highways, local roads, existing electrical transmission and distribution lines and railroad corridors are present in the study area.
Public Lands	Chequamegon/Nicolet National Forest, Northern Highland - American Legion State Forest, Eagle Lake Park.
Sensitive Resources	Numerous lakes, streams, wetlands and forested lands are found in the study area.
Cultural Resources	There is a high potential for historic and cultural resources within the study area.
Miscellaneous	Eagle River Union Airport is located within the study area.
Femrite-Royster/AGA 69 kV line	
General Description	New line
Length (miles)	approximately 1.4
Study Area (square miles-length times width)	approximately 2.2
Corridor Sharing Opportunities	Existing transmission lines and town roads offer the best opportunity for corridor sharing.
Public Lands	None listed
Sensitive Resources	Legacy Places lists the upper Yahara River Streams and Lakes, other streams and wetlands within project area.
Cultural Resources	Cultural Map of Wisconsin does not identify any sites within the project area.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

South Beaver Dam - North Beaver Dam 138 kV line	
General Description	138 kV system tie
Length (miles)	approximately 4
Study Area (square miles-length times width)	approximately 33
Corridor Sharing Opportunities	Extension of 138 kV feed from North Beaver Dam to South Beaver Dam to strengthen source. Additional right-of-way may be required. State and county roads, railroad corridor, and an existing 69 kV transmission line route also are located within the study area.
Public Lands	Crystal Lake, Waterworks, and Lakeview parks are located within the study area.
Sensitive Resources	Shaw Marsh Wildlife Area, and Beaver Dam Lake are found within the project area
Cultural Resources	
Miscellaneous	
Sprecher - Femrite 138 kV line	
General Description	New line
Length (miles)	approximately 2.6
Study Area (square miles-length times width)	approximately 8
Corridor Sharing Opportunities	Existing transmission lines, railroad corridors, federal highways and town roads offer the best opportunity for corridor sharing.
Public Lands	None listed.
Sensitive Resources	Legacy Places lists the upper Yahara River Streams and Lakes, other streams and wetlands within project area.
Cultural Resources	Cultural Map of Wisconsin does not identify any sites within the project area.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Verona - Southeast Fitchburg 138 kV line	
General Description	New line
Length (miles)	approximately 9 total, 3.6 of new right-of-way
Study Area (square miles-length times width)	approximately 18
Corridor Sharing Opportunities	Existing transmission lines, railroad corridors and town roads offer the best opportunity for corridor sharing.
Public Lands	Badger Prairie, Capitol City State Trail
Sensitive Resources	Goose Lake, Badger Mill Creek and various other wetlands, lakes and streams are located within the study area.
Cultural Resources	Military Ridge State Trail and Capitol City State Trail are located within the study area.
Miscellaneous	
Canal - Dunn Road 138 kV line	
General Description	New line
Length (miles)	approximately 6.5
Study Area (square miles-length times width)	approximately 52
Corridor Sharing Opportunities	Existing transmission right-of-way, State Hwy. 42/57 and county highways offer sharing opportunities.
Public Lands	Several local parks (Big Hill Park, Garland Park, Amity Field)
Sensitive Resources	Sturgeon Bay Ship Canal. Some wetlands, streams and agricultural lands are found in the study area.
Cultural Resources	Several museums are located in the Village of Sturgeon Bay.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

<b>Oak Creek - Brookdale 345 kV line</b>	
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
Study Area (square miles-length times width)	approximately 200
Corridor Sharing Opportunities	Several state and county roads and existing 138, 230 and 345 kV line routes exist in the project area.
Public Lands	Racine and Milwaukee County Parkland, Root River Parkway, Whitnall Park.
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).
Cultural Resources	The Ben Hunt Cabin is identified in the project area on the Cultural Map of Wisconsin.
Miscellaneous	Some additional right-of-way needed, Hales Corners Airport.
<b>Oak Creek - St. Martins 138 kV line</b>	
General Description	Addition of a second 138 kV circuit to an existing line
Length (miles)	approximately 16 total, 4 of new right-of-way
Study Area (square miles-length times width)	approximately 87
Corridor Sharing Opportunities	Existing transmission right-of-way can be followed for this project. Additional corridor sharing opportunities exist with state and county roads in the project area.
Public Lands	Racine and Milwaukee County Parkland, Root River Parkway, Whitnall Park.
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).
Cultural Resources	The Ben Hunt Cabin is identified in the project area on the Cultural Map of Wisconsin.
Miscellaneous	
<b>Stone Lake - Arrowhead 345 kV line</b>	Environmental Information included with filing at PSC - CPCN Approved

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

St. Germain - Boulder Junction 115 kV line	
General Description	New line - interconnection with proposed WPS substation
Length (miles)	approximately 15
Study Area (square miles-length times width)	approximately 96
Corridor Sharing Opportunities	Very limited. Vilas County Roads and State Hwys. 70 and 155 are located within the study area.
Public Lands	St. Germain substation located in Northern Highland American Legion State Forest. State forest covers most of the study area. Escanaba hiking trail.
Sensitive Resources	Numerous lakes, streams, wetlands and forested lands found within the study zone. The Aurora Lake State Natural Area is located in the study area.
Cultural Resources	There is a high potential for historic and cultural resources within the study area.
Miscellaneous	
Fitzgerald - Omro Industrial 69 kV line	
General Description	New line
Length (miles)	approximately 6
Study Area (square miles-length times width)	approximately 49
Corridor Sharing Opportunities	State highways and existing transmission lines offer corridor sharing opportunities.
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 study area.
Sensitive Resources	Fox River, Waukau Creek Nature Preserve, Spring Brook.
Cultural Resources	The Cultural Map of Wisconsin does not identify any sites within the project area, however there are several cemeteries known in the study area.
Miscellaneous	Skydive Adventure Airport

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Twin Lakes - Spring Valley 138 kV line	
General Description	New line
Length (miles)	approximately 9
Study Area (square miles-length times width)	approximately 64
Corridor Sharing Opportunities	Several Kenosha County highways and a railroad corridor are located within the study area.
Public Lands	Silver Lake and Fox River Parks. New Munster State Wildlife area.
Sensitive Resources	The Fox River and tributaries and several lakes are located within the study area. Peat Lake, Silver Lake Bog, and New Munster Bog Island State Natural Areas are located in the study area. The Elizabeth Lake Wetlands and Southeast Prairie Pothole areas are located in or near the study area.
Cultural Resources	No locations of cultural interest are identified on the Cultural Map of Wisconsin within the study area.
Miscellaneous	Westosha and Camp Lake Landing Strips
South Lake Geneva - North Lake Geneva 138 kV line	
General Description	New line
Length (miles)	approximately 3
Study Area (square miles-length times width)	approximately 16
Corridor Sharing Opportunities	Numerous city streets, United States Hwy. 12, State Hwys. 36, 50, and 120 and a railroad corridor are located within the study area.
Public Lands	Big Foot Beach State Park, Lyons and Bloomfield State Wildlife areas and several city parks are located in the study area.
Sensitive Resources	Lake Geneva, the White River and Bloomfield area, portions of Lake Como and Como Creek are located in the study area.
Cultural Resources	Big Foot Beach State Park and the Geneva Lakes area Museum of History are identified on the Cultural Map of Wisconsin within the study area.
Miscellaneous	Numerous resorts and recreation facilities are located in the study area.



Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

Brooklyn - Belleville 138 kV line	
General Description	New line
Length (miles)	approximately 8
Study Area (square miles-length times width)	approximately 60
Corridor Sharing Opportunities	County and town roads offer the best opportunities for corridor sharing
Public Lands	Brooklyn State Wildlife Area
Sensitive Resources	Lake Bell View, Sugar River, West Branch Sugar River, Story Creek, Allen Creek Gill Creek, Story Creek, numerous other tributary streams, wetlands and lakes are within the study area.
Cultural Resources	No locations of cultural interest are identified on the Cultural Map of Wisconsin within the study area.
Miscellaneous	
Rockdale - West Middleton 345 kV line	
General Description	345 kV system tie
Length (miles)	approximately 28
Study Area (square miles-length times width)	approximately 290
Corridor Sharing Opportunities	New tie from the 345 kV system to relieve system overloads in the Madison area. Additional right-of-way will be required. State and county roads and existing transmission lines located within the study area offer the best possibility of corridor sharing.
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 study area.
Sensitive Resources	Bean Lake, Red Cedar Lake, Hook Lake/Grass Lake State Natural Areas and much of the Yahara River drainage basin are found within the project area
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 project area.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

<b>Spring Green - Prairie du Sac 69 kV line</b>	
General Description	69 kV system support
Length (miles)	approximately 18
Study Area (square miles-length times width)	approximately 153
Corridor Sharing Opportunities	New 69 kV feed from Spring Green to relieve system overloads and provide system support in the Prairie du Sac area. Additional right-of-way will be required. State and county roads and existing transmission lines located within the study area offer the best possibilities for corridor sharing.
Public Lands	Numerous city, county, and state parks including Summer Oaks and Fish Lake County Parks, Tower Hill State Park, and lands along the Lower Wisconsin State Riverway are located within the study area.
Sensitive Resources	Spring Green Reserve, Ferry Bluff, Tower Hill Bottoms, Mazomanie Bottoms State Natural Areas and The Lower Wisconsin River State Wildlife Area are found within the project area
Cultural Resources	The Tower Hill Shot Tower, August Derleth HomWilliam Steuber Home, the Honey Creek Swiss Rural Historic District and Taliesin are located within the project area.
Miscellaneous	
<b>Morgan-Werner West 345kV line</b>	
General Description	New line
Length (miles)	approximately 47
Study Area (square miles-length times width)	approximately 555
Corridor Sharing Opportunities	Several state highways, county highways, existing transmission rights-of-way, pipelines, and railroads within the study zone
Public Lands	Several state wildlife areas (Mukwa, Outagamie, Maine, Navarino), and parks including Cedar County Park, Walter A. Olen, Shiocton Lake, Lindsay, Pfeifer, Hatten, Abrahams Park, as well as numerous fish, wildlife, habitat and natural areas along the Wolf River throughout study zone.
Sensitive Resources	The Wolf River, scattered lakes, streams and wetlands along with forested lands and agricultural land are in the study area.
Cultural Resources	High potential for historic and cultural resources within study zone. Numerous cemeteries.
Miscellaneous	Clintonville Municipal Airport.

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

<b>Concord - Bark River 345 kV line</b>	
General Description	New line
Length (miles)	approximately 17 total, 10 of new right-of-way
Study Area (square miles-length times width)	approximately 107
Corridor Sharing Opportunities	Several state and county highways, existing transmission rights-of-way, pipelines, and railroad corridors are within the study zone
Public Lands	State public hunting grounds, Monches County Park and other undeveloped county parklands as well as several community parks are located within the study area.
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 study area.
Cultural Resources	The Maranatha 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 study area.
Miscellaneous	The Watertown Municipal Airport and the Oconomowoc Landing Strip are located in the study area.
<b>Oak Creek - Racine 345 kV line</b>	
General Description	New 345 kV line
Length (miles)	approximately 16 total, 4 of new right-of-way
Study Area (square miles-length times width)	approximately 82
Corridor Sharing Opportunities	New 345 kV line to accommodate new generation. Additional right-of-way will be required. State and county roads, railroad and existing transmission lines corridors located within the study area offer the best possibilities for corridor sharing.
Public Lands	Numerous city and county parks including Bender Park, Cliffside Park, Johnson Park, the Root River Parkway, Armstrong Park, and Caledonia-Mount Pleasant Park are located within the study area.
Sensitive Resources	Renak-Polak Maple Beech Woods and Sander Park Hardwoods State Natural Areas, Hunts Woods, Cliffside Park Woods, Tabor Woods, Caledonia Low Woods, Oak Creek Low Woods, and Root River riverine forest are found within the project area
Cultural Resources	The Wind Point Lighthouse and Herbert F. Johnson House are located within the project area.

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

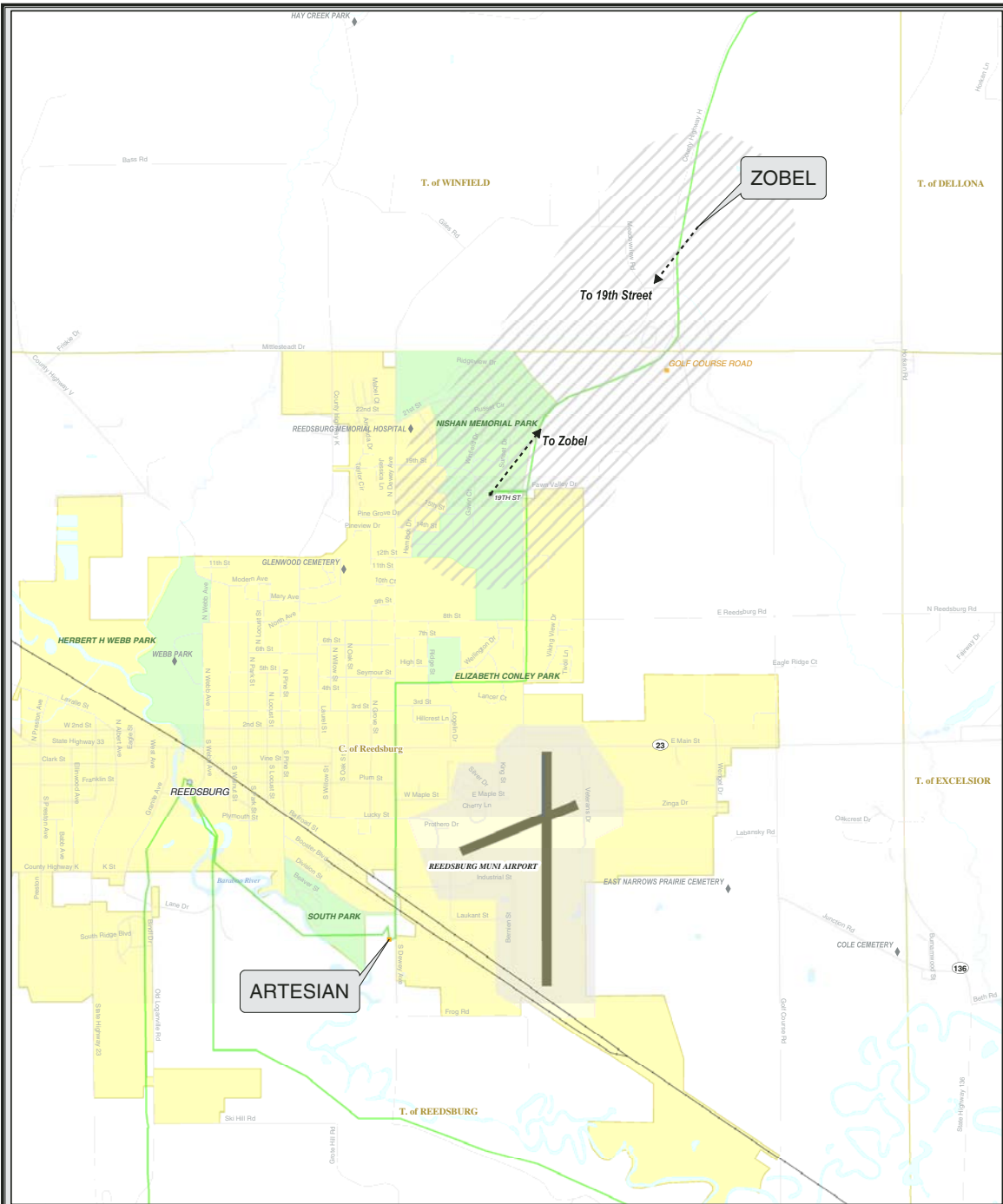
<p><b>Paddock - Verona 345 kV line and Kegonsa-West Middleton Loop into Verona</b></p>	
General Description	New line
Length (miles)	approximately 40 total, 10 of new right-of-way
Study Area (square miles-length times width)	approximately 585
Corridor Sharing Opportunities	New right-of-way will be required. State and county roads, railroad and existing transmission line corridors located within the study area offer the best possibilities for corridor sharing.
Public Lands	City and county parks, Footville Leased Public Hunting Ground, Badfish Creek Public Hunting Grounds, Avon Bottoms Hunting Ground, Liberty Creek Hunting Ground, Albany Hunting Ground.
Sensitive Resources	Albany Wildlife Area, Liberty Creek Wildlife Area, Footville Leased Public Hunting Ground, Evansville Wildlife Area, Badfish Creek Wildlife Area, Bellville Wildlife Area, Hook Lake Wildlife and Natural Area, Lower Waubesa Wetland and Natural Area. Rock River, Bass Creek, Raccoon Creek, Stevens Creek, Lake Leota, Grass Lake, Allen Creek, Liberty Creek, Cold Spring Creek, Spring Creek, Gibbs Lake, Bass Lake, Grass Lake, Lake Blarney, Lake Harriet, Sugar River, Badger Mill Creek, Hook Lake, Island Lake, other streams, lakes and wetlands within the Yahara and Rock River Drainage basins.
Cultural Resources	Exchange Square Historic District, Broadhead, Route of Abraham Lincoln Marker, Footville Condensery, Frances Wiggins Ford Farm, Cooksville Cheese Factory, Cooksville Historic District, Evansville Historic District, Wisconsin Industrial School for Girls, University of Wisconsin Arboretum.
Miscellaneous	

Table VII-2 (continued) 2003 Screening Information for Projects Requiring New Right-of-Way

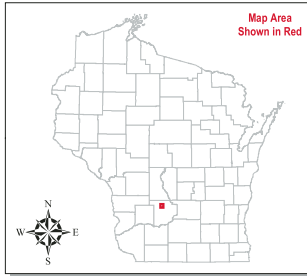
<b>Eden-Muscoda-Richland Center 69kV line</b>	
General Description	New line
Length (miles)	approximately 25
Study Area (square miles-length times width)	approximately 234
Corridor Sharing Opportunities	Railroads, existing transmission lines and state and United States highways offer corridor sharing potential.
Public Lands	Blackhawk Lake Recreation area, Pine River public hunting grounds, Big Spring Fishery area and other public lands along the Wisconsin River are located in the study area.
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 study area.
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

**Notes:**

Study Area Width:	For lines 0-5 miles long, study area width equals length of segment: for lines 5-15 miles long, study area width equals 5 miles; for lines > 15 miles long, study area width equals 30% of line length.
Corridor Sharing Opportunities:	Identify dominant corridor types.
Public Lands:	Identify properties by name.
Sensitive Resources:	List major stream crossings, significant topographic features, designated natural areas, etc.



**PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Artesian to Zobel 138 kV Line*

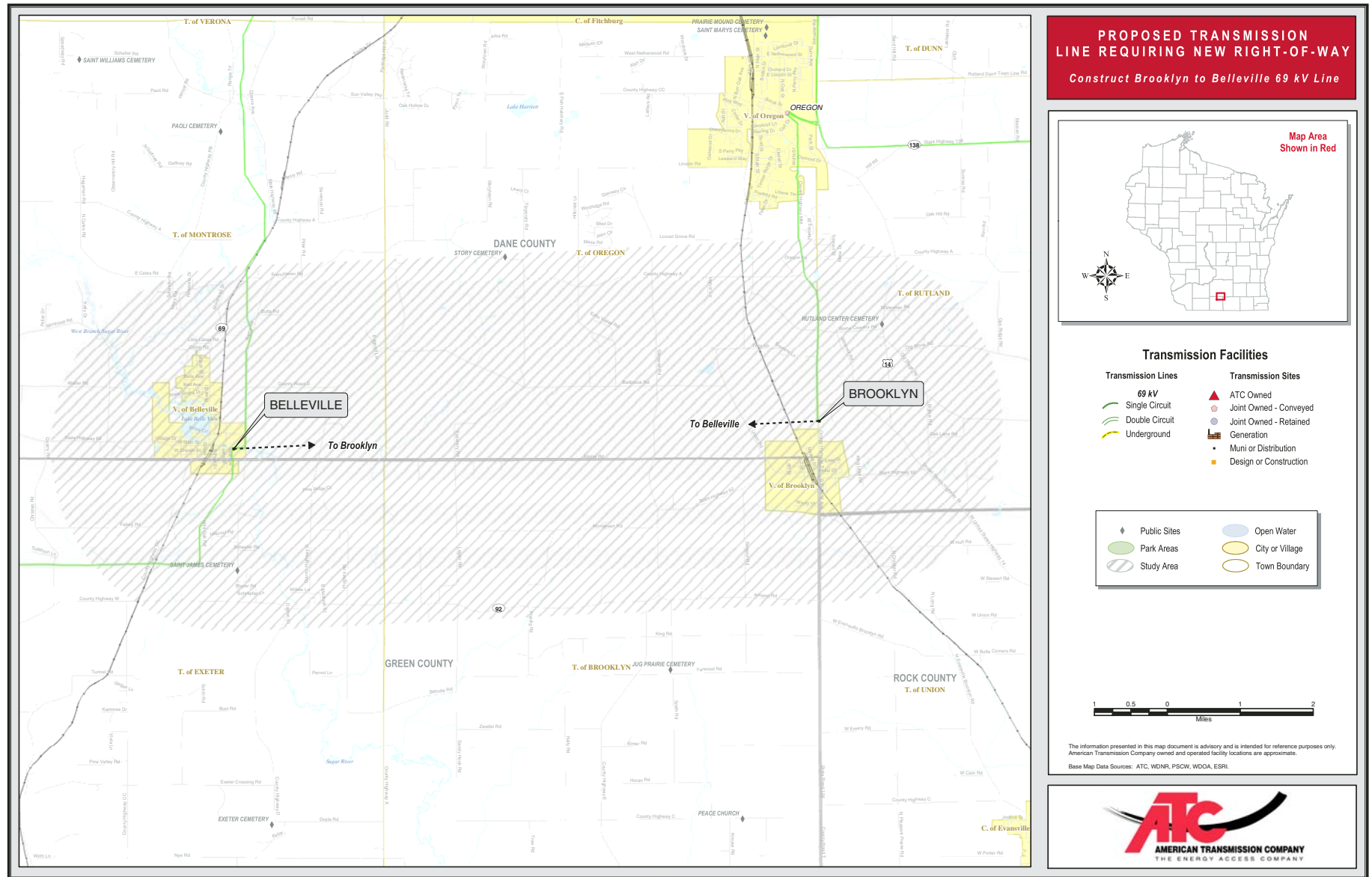


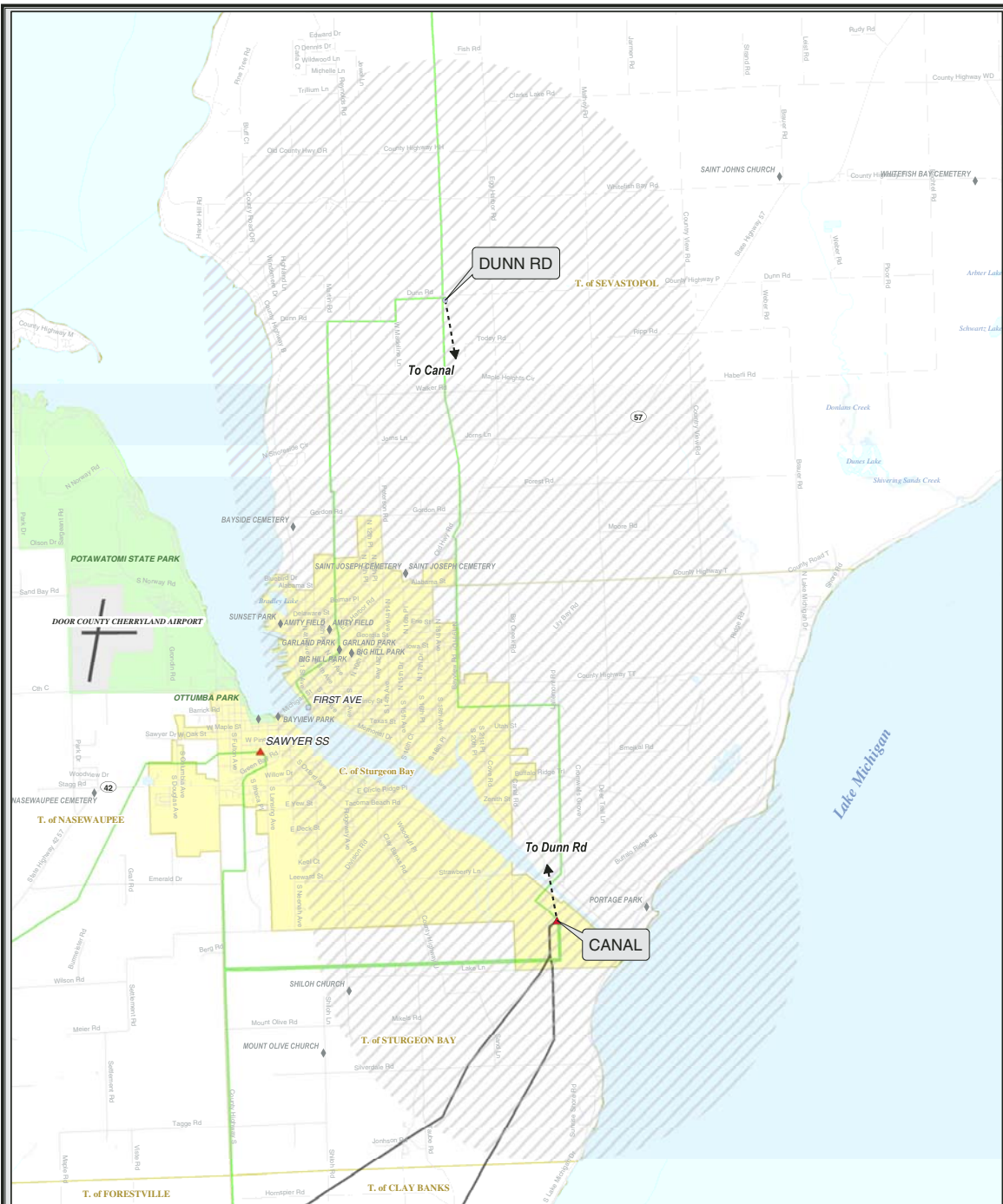
- Transmission Facilities**
- |                           |                           |
|---------------------------|---------------------------|
| <b>Transmission Lines</b> | <b>Transmission Sites</b> |
| 69 kV                     | ▲ ATC Owned               |
| Single Circuit            | ◊ Joint Owned - Conveyed  |
| Double Circuit            | ● Joint Owned - Retained  |
| Underground               | ■ Generation              |
|                           | • Muni or Distribution    |
|                           | ■ Design or Construction  |

◆ Public Sites	● Open Water
● Park Areas	● City or Village
▨ Study Area	○ Town Boundary

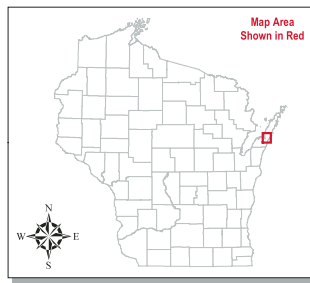
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

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.





**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Canal to Dunn Rd 138 kV Line*



**Transmission Facilities**

- Transmission Lines \***
- 69 kV Single Circuit
  - = 69 kV Double Circuit
  - 138 kV Single Circuit
  - = 138 kV 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
- Study Area
- Town Boundary

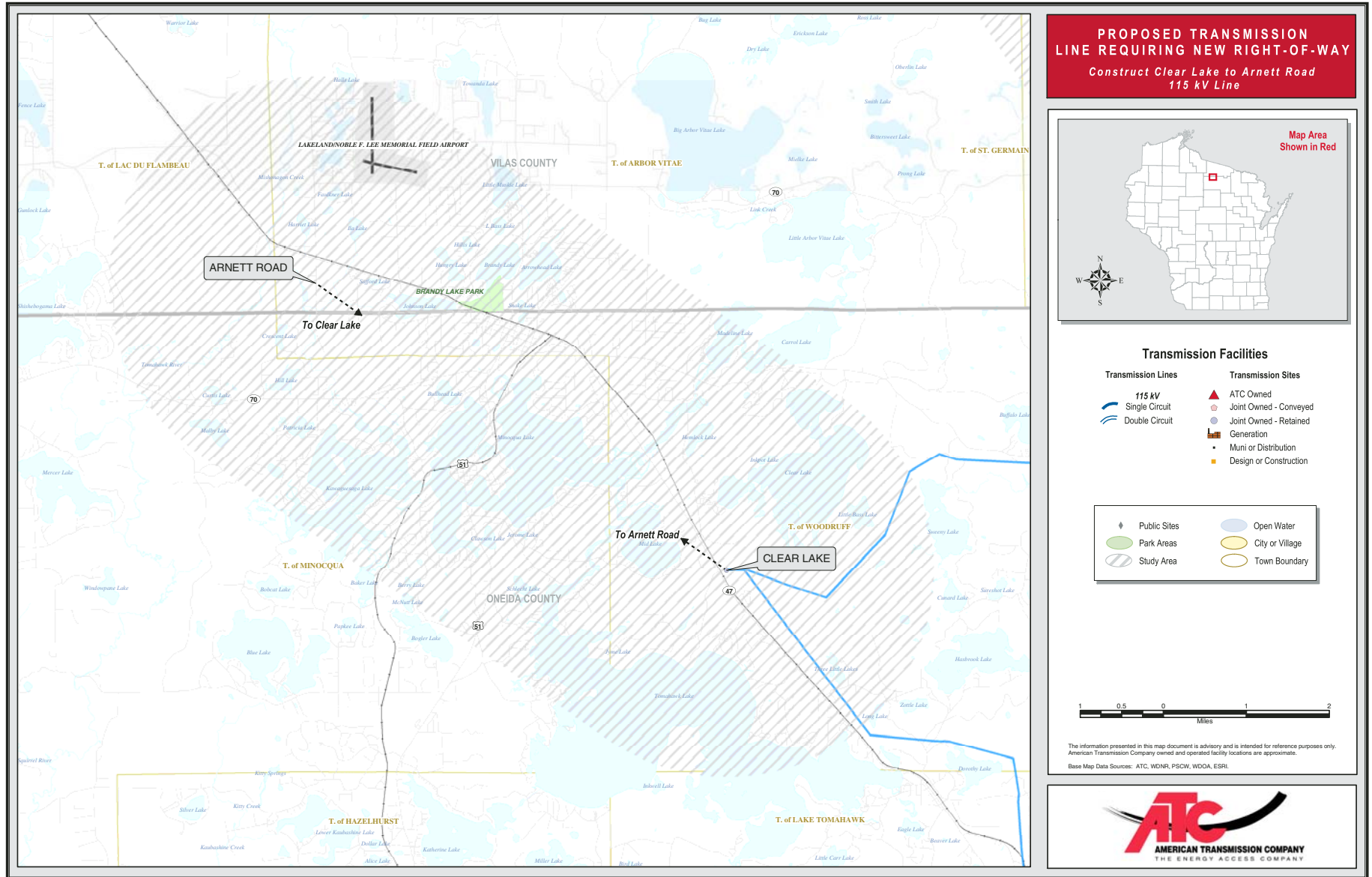
Base Map Data Sources: ATC, NDNR, PSCW, WDCA, ESRI

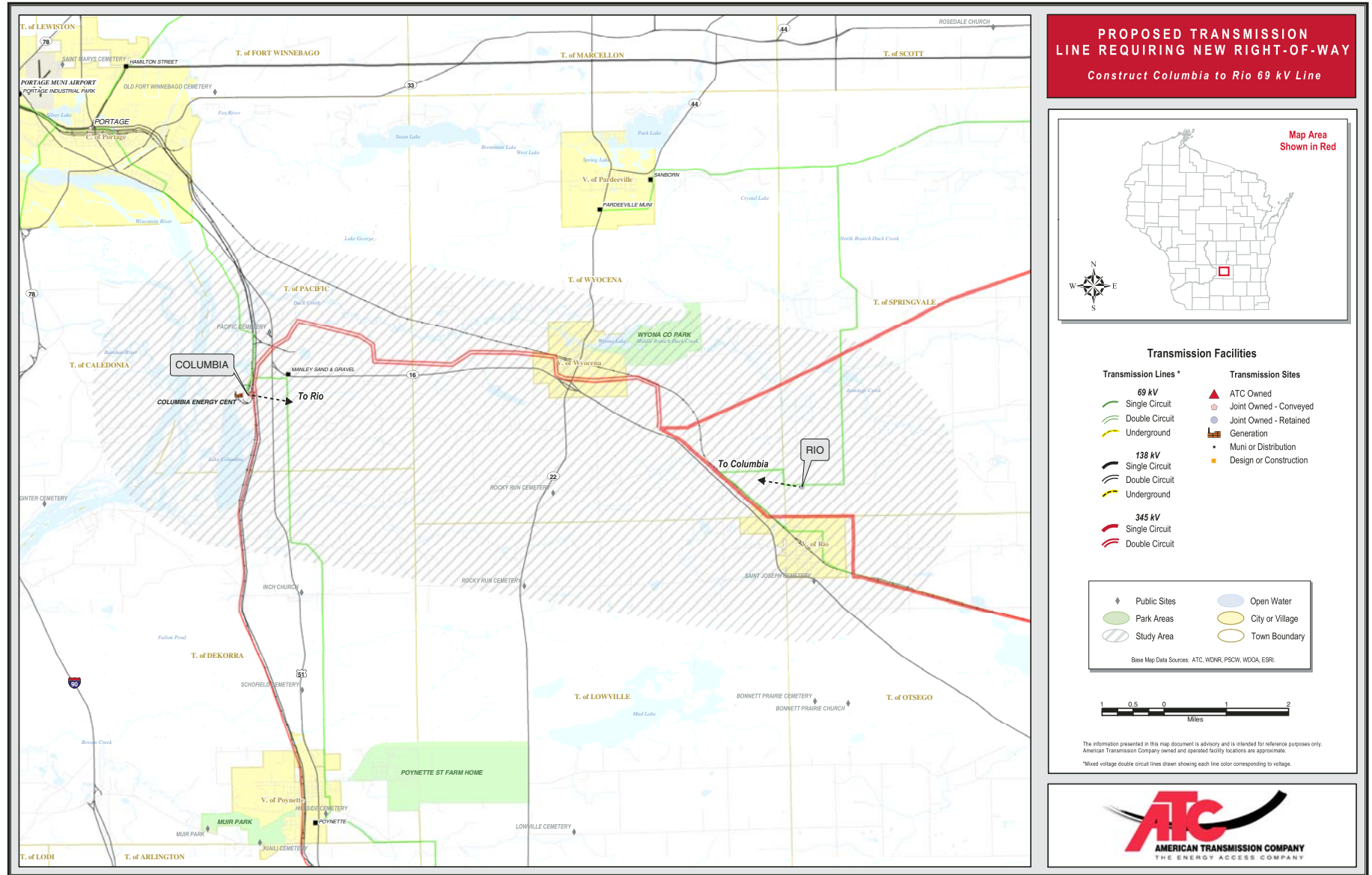


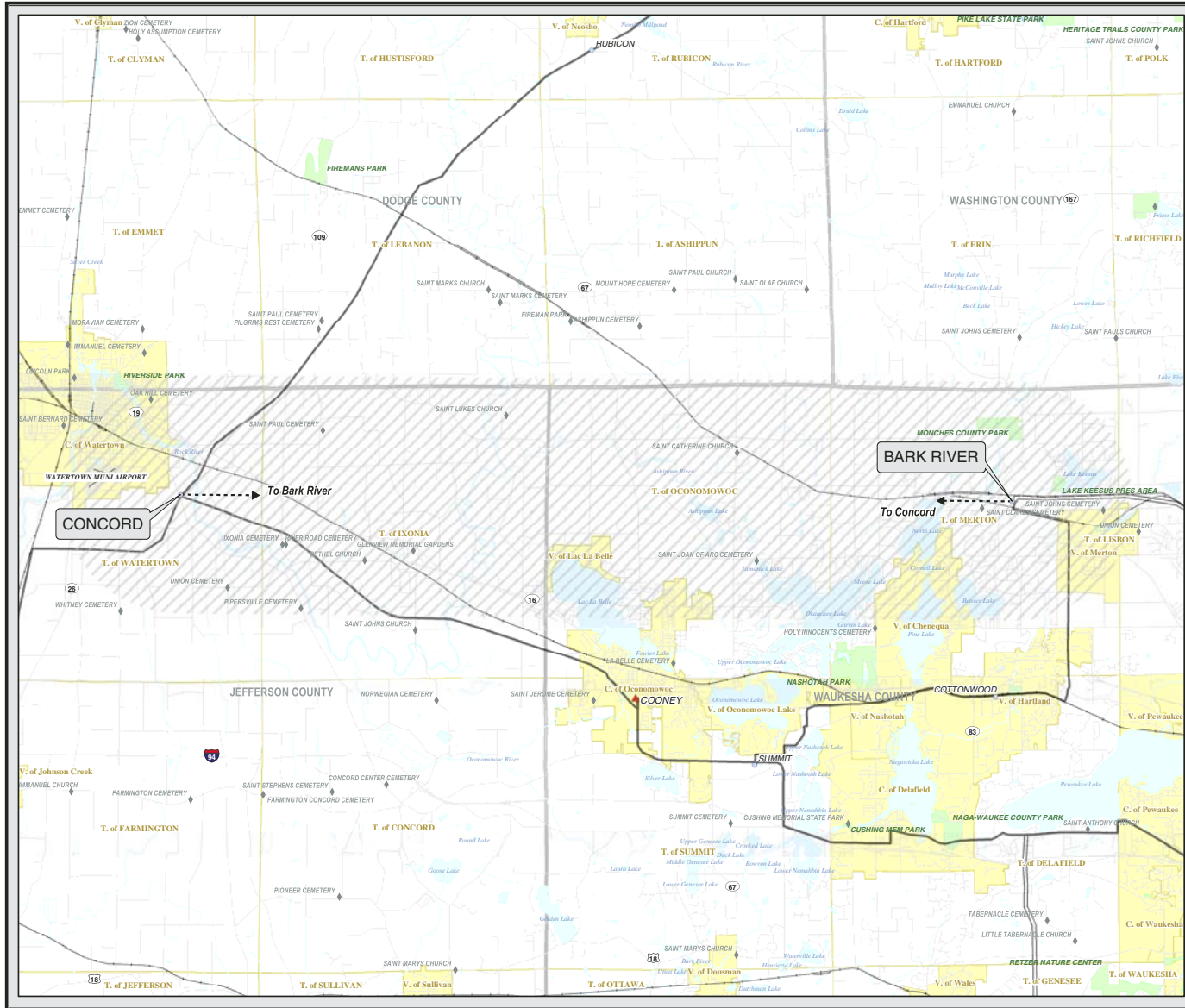
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

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









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



**Transmission Facilities**

<b>Transmission Lines</b>	<b>Transmission Sites</b>
138 kV	▲ ATC Owned
Single Circuit	● Joint Owned - Conveyed
Double Circuit	● Joint Owned - Retained
Underground	■ Generation
	● Muni or Distribution
	■ Design or Construction

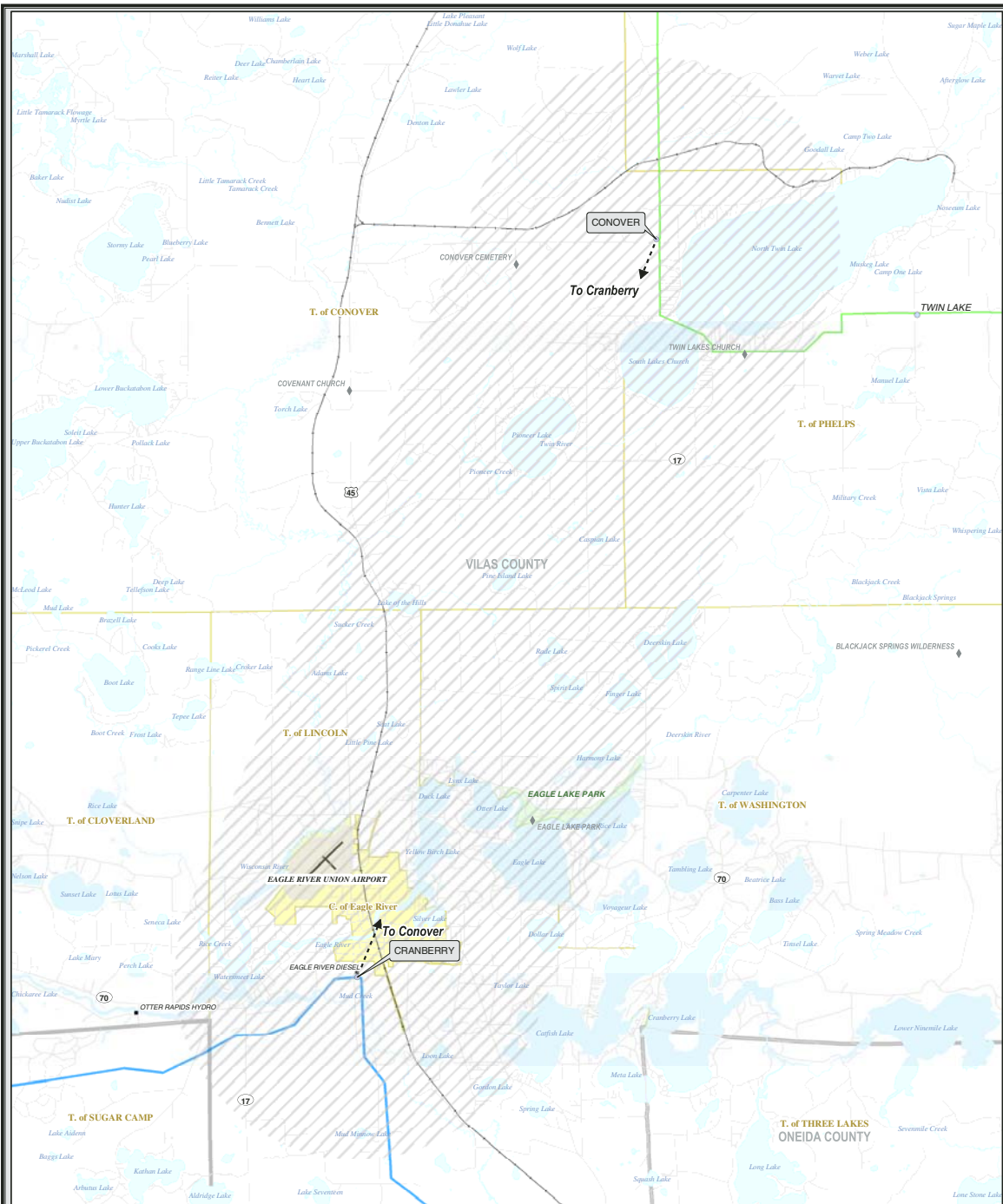
♦ Public Sites	● Open Water
● Park Areas	● City or Village
▨ Study Area	○ Town Boundary



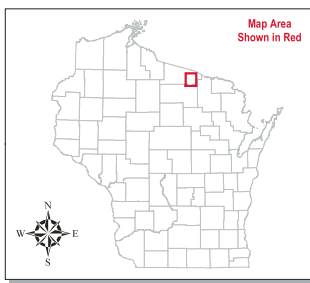
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.  
 Base Map Data Sources: ATC, WDNR, PSGW, WDOA, ESR.



Concord-Bark River 345 kV.pdf Modified: Jun 21, 2013



**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Cranberry to Conover 138 kV Line*



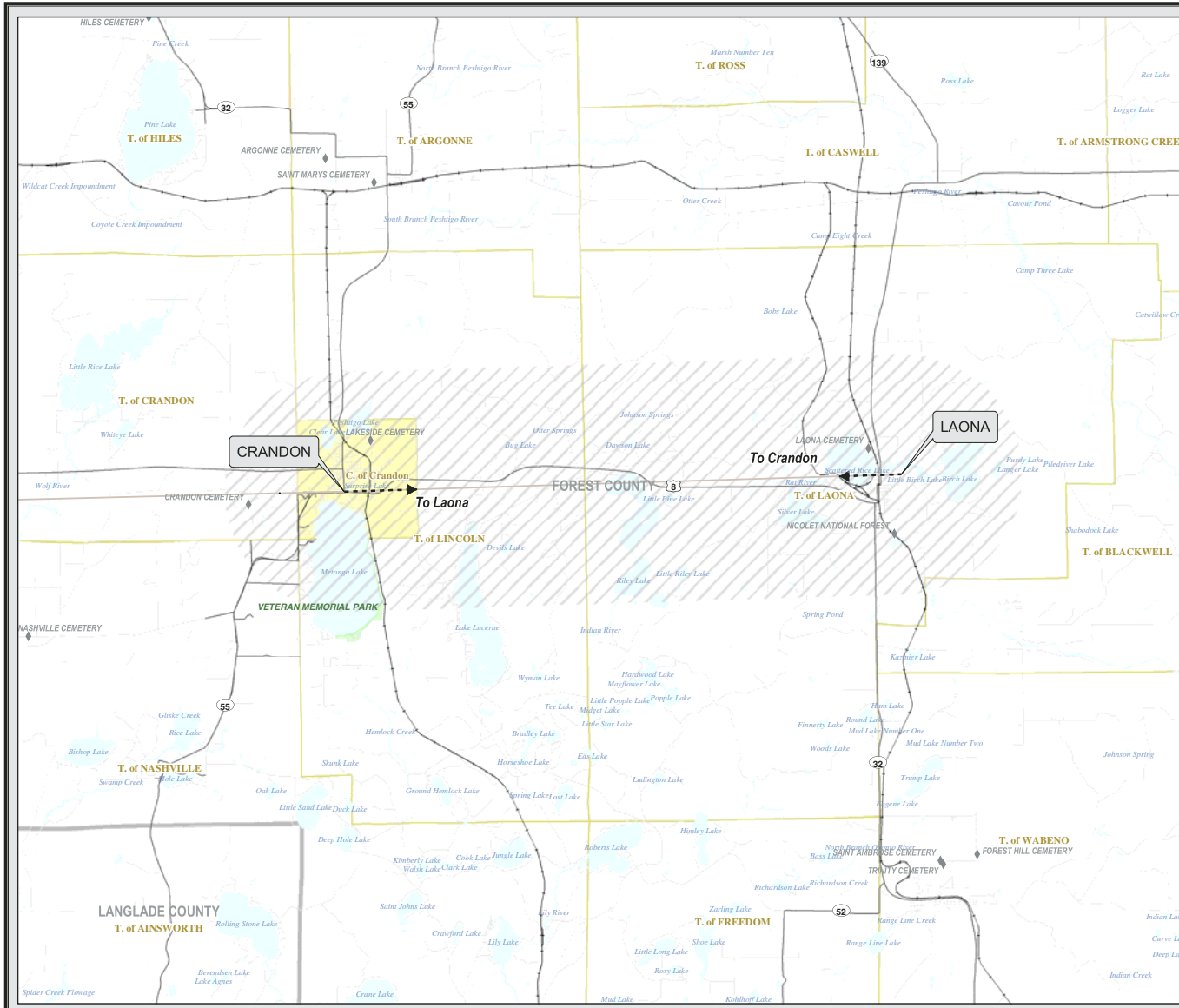
- ### Transmission Facilities
- |                           |                           |
|---------------------------|---------------------------|
| <b>Transmission Lines</b> | <b>Transmission Sites</b> |
| 69 kV                     | ▲ ATC Owned               |
| Single Circuit            | ◐ Joint 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
▨ Study Area	○ Town Boundary

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

1 0.5 0 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.



Crandon-Laona 138, 115 kV Line.mxd Modified: Jun 24, 2010

**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
 Construct Crandon to New Laona  
 115 or 138 kV Line

Map Area Shown in Red

**Transmission Facilities**

**Transmission Sites**

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

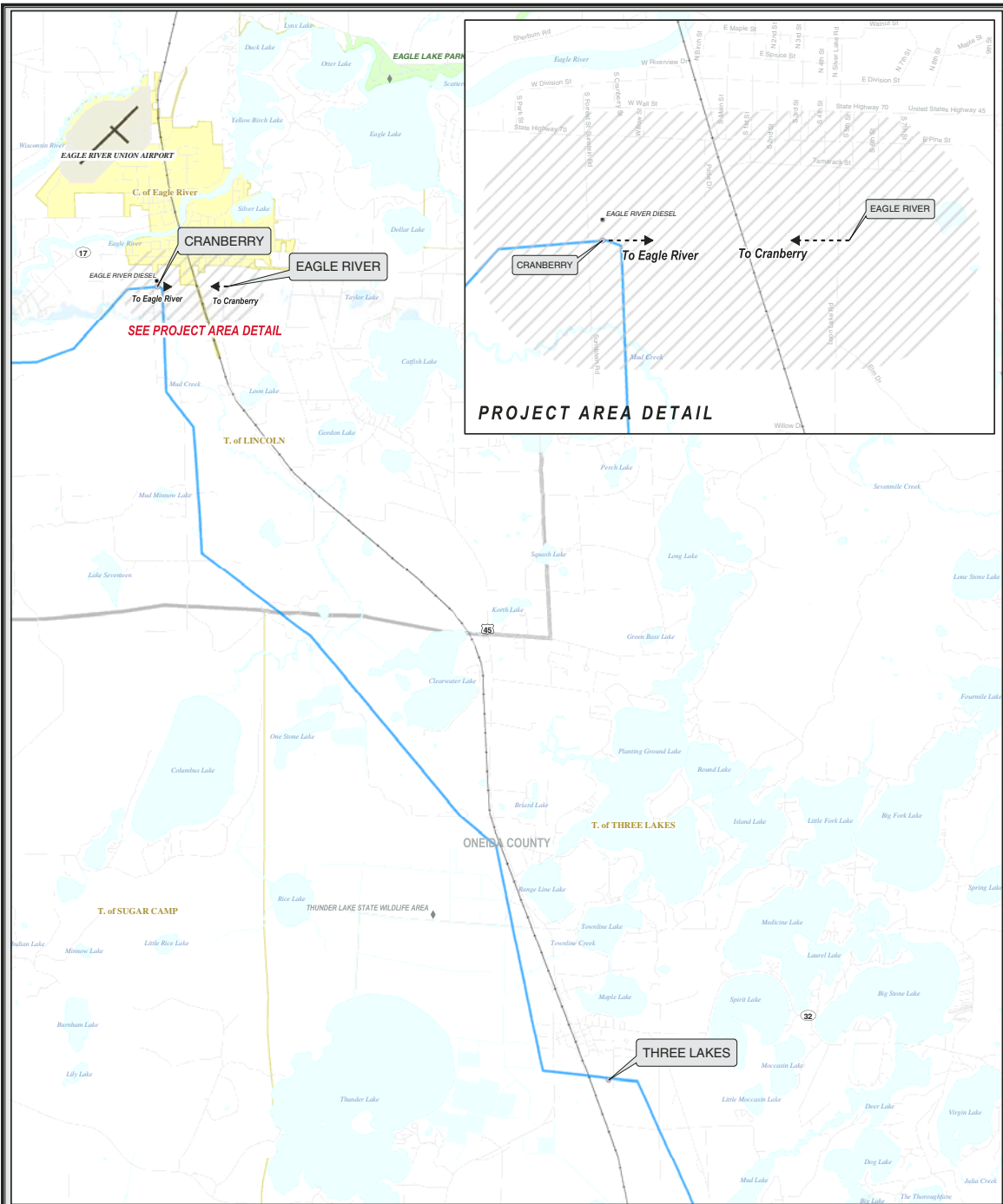
<span style="color: green;">◆</span> Public Sites	<span style="color: lightblue;">●</span> Open Water
<span style="color: green;">■</span> Park Areas	<span style="color: yellow;">●</span> City or Village
<span style="color: green;">○</span> Study Area	<span style="color: yellow;">○</span> Town Boundary

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

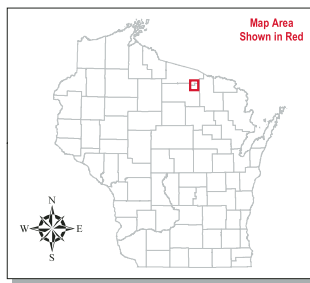
Miles

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.

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**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Eagle River to Cranberry / Three Lakes 115 kV Line*



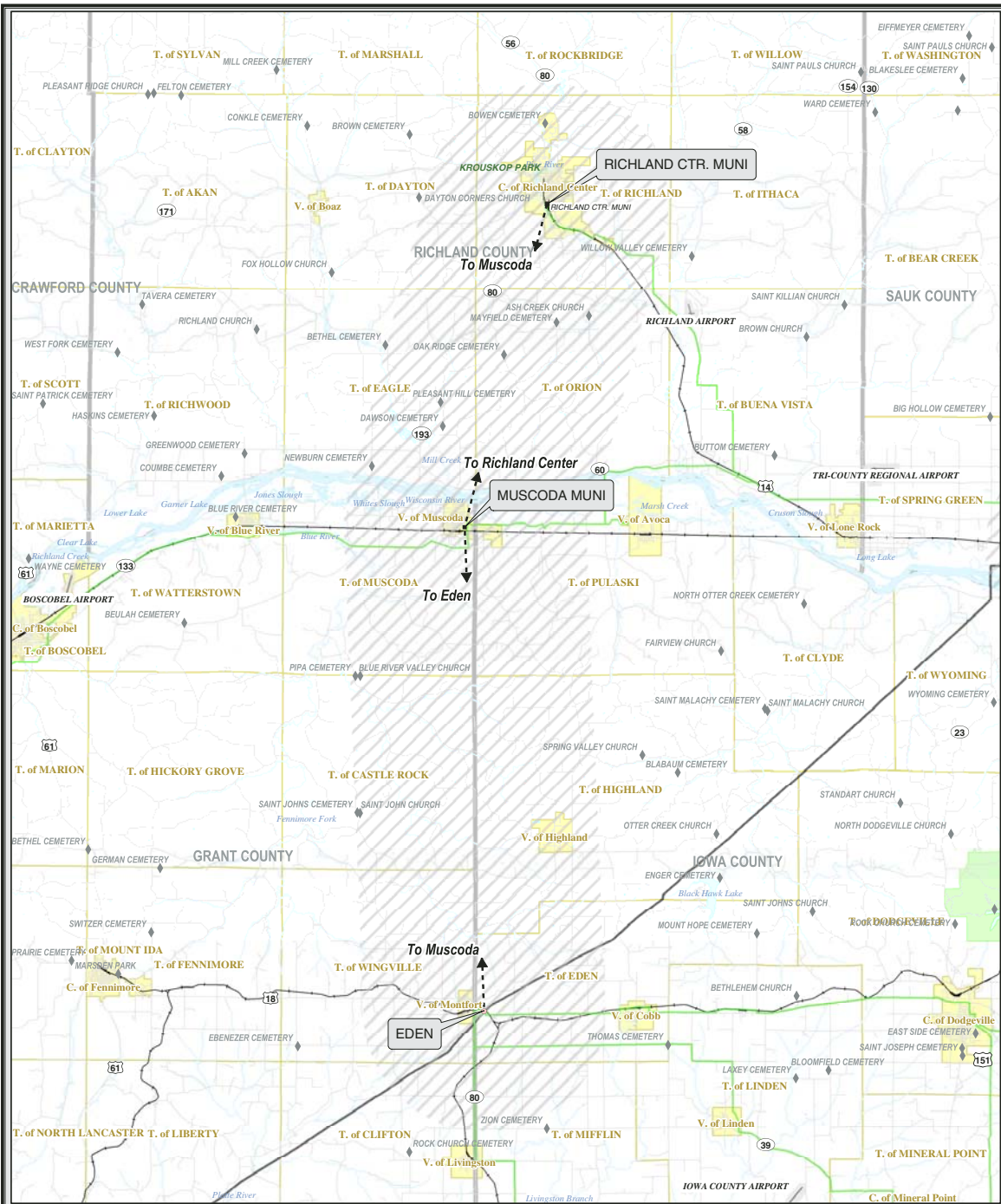
- Transmission Facilities**
- |                           |                           |
|---------------------------|---------------------------|
| <b>Transmission Lines</b> | <b>Transmission Sites</b> |
| — 115 kV                  | ▲ ATC Owned               |
| — Single Circuit          | ◊ Joint Owned - Conveyed  |
| — Double Circuit          | ● Joint Owned - Retained  |
|                           | ■ Generation              |
|                           | • Muni or Distribution    |
|                           | ■ Design or Construction  |

◆ Public Sites	○ Open Water
● Park Areas	○ City or Village
▨ Study Area	○ Town Boundary

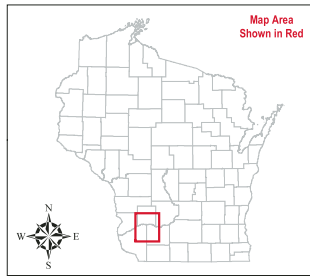
Base Map Data Sources: ATC, WDCN, PSCWR, WDQA, ESRI.

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.



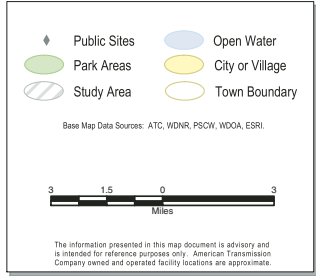
**CONCEPTUAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Eden through Muscoda to Richland Center 69 kV Line*

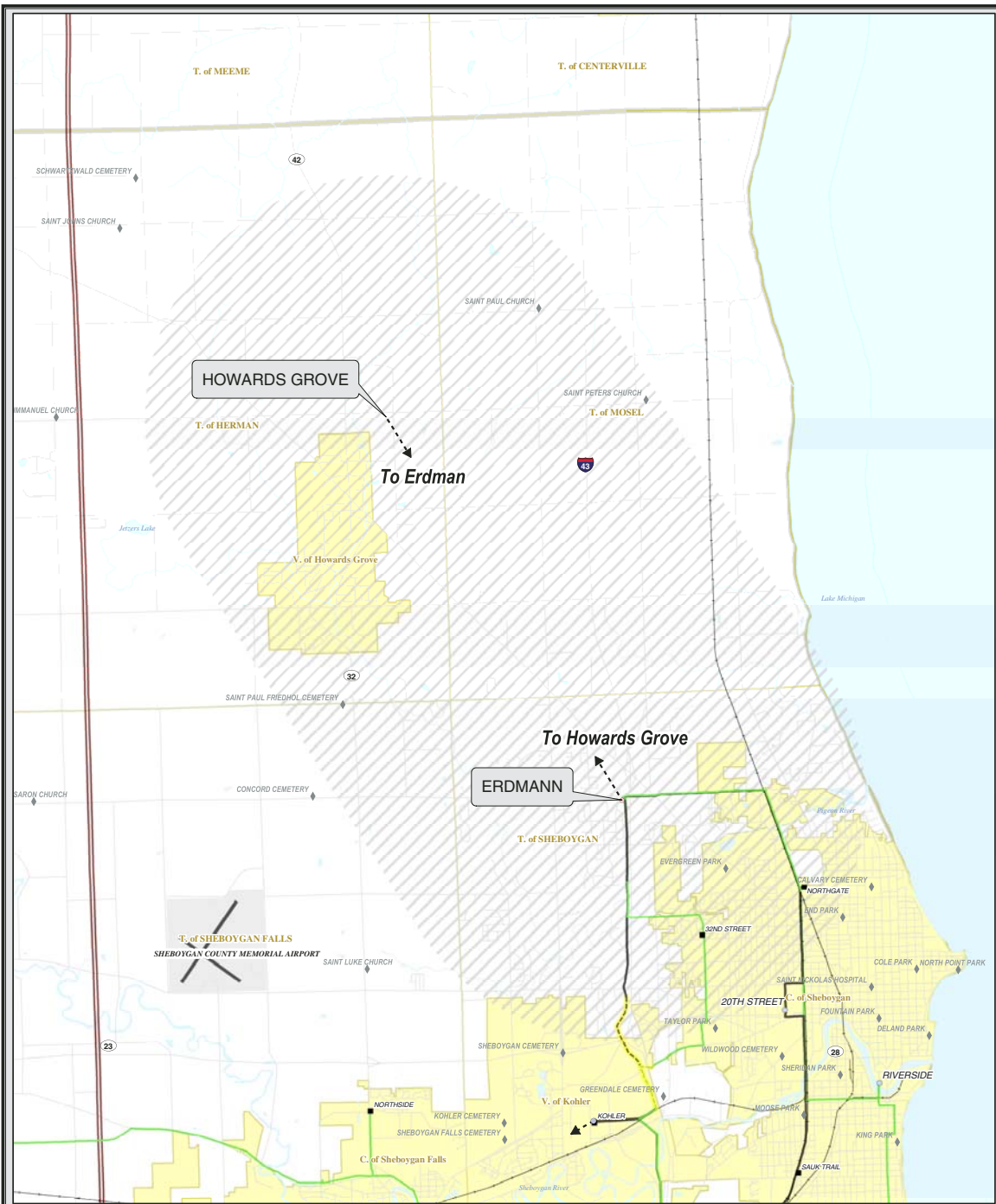


**Transmission Facilities**

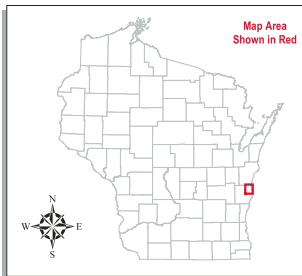
- Transmission Lines \***
- 69 kV
    - Single Circuit
    - Double Circuit
  - 138 kV
    - Single Circuit
    - Double Circuit

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





**PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Erdman to Howards Grove 138 kV Line*



- Transmission Facilities**
- |   |  |
|---|--|
| <p><b>Transmission Lines *</b></p> <ul style="list-style-type: none"> <li>69 kV                     <ul style="list-style-type: none"> <li>Single Circuit</li> <li>Double Circuit</li> <li>Underground</li> </ul> </li> <li>138 kV                     <ul style="list-style-type: none"> <li>Single Circuit</li> <li>Double Circuit</li> </ul> </li> <li>345 kV                     <ul style="list-style-type: none"> <li>Double Circuit</li> </ul> </li> </ul> | <p><b>Transmission Sites</b></p> <ul style="list-style-type: none"> <li>ATC Owned</li> <li>Joint Owned - Conveyed</li> <li>Joint Owned - Retained</li> <li>Generation</li> <li>Muni or Distribution</li> <li>Design or Construction</li> </ul> |
|---|--|

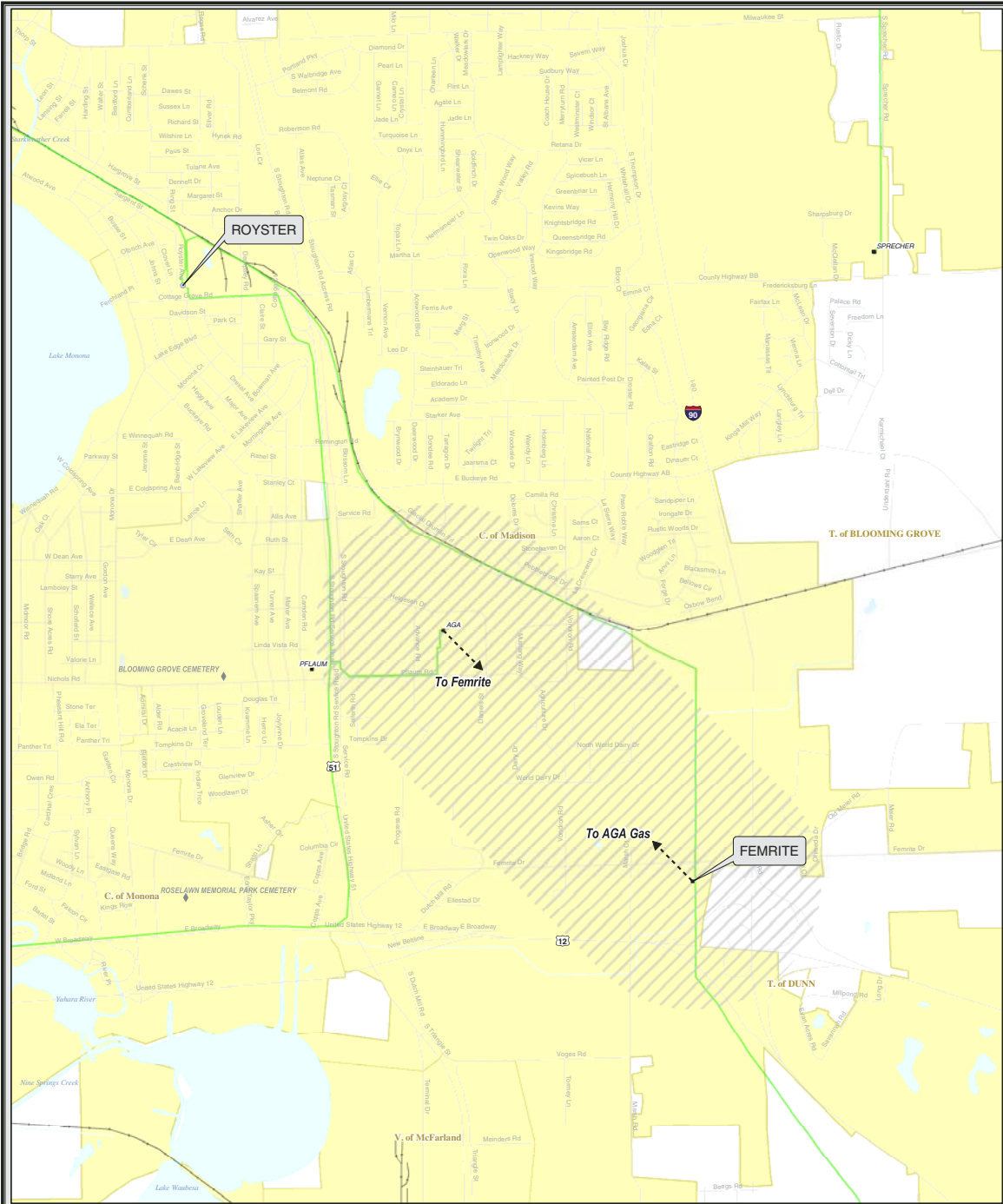
Public Sites	Open Water
Park Areas	City or Village
Study Area	Town Boundary

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

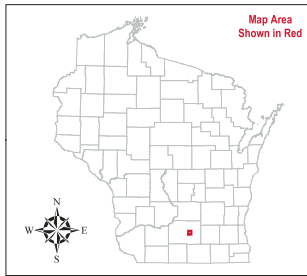
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

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





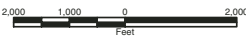
**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Loop the Femrite to Royster 69 kV Line into AGA Gas*



- Transmission Facilities**
- Transmission Lines \*
    - Single Circuit
    - Double Circuit
    - Underground
  - Transmission Sites
    - ATC Owned
    - Joint Owned - Conveyed
    - Joint Owned - Retained
    - Generation
    - Muni or Distribution
    - Design or Construction

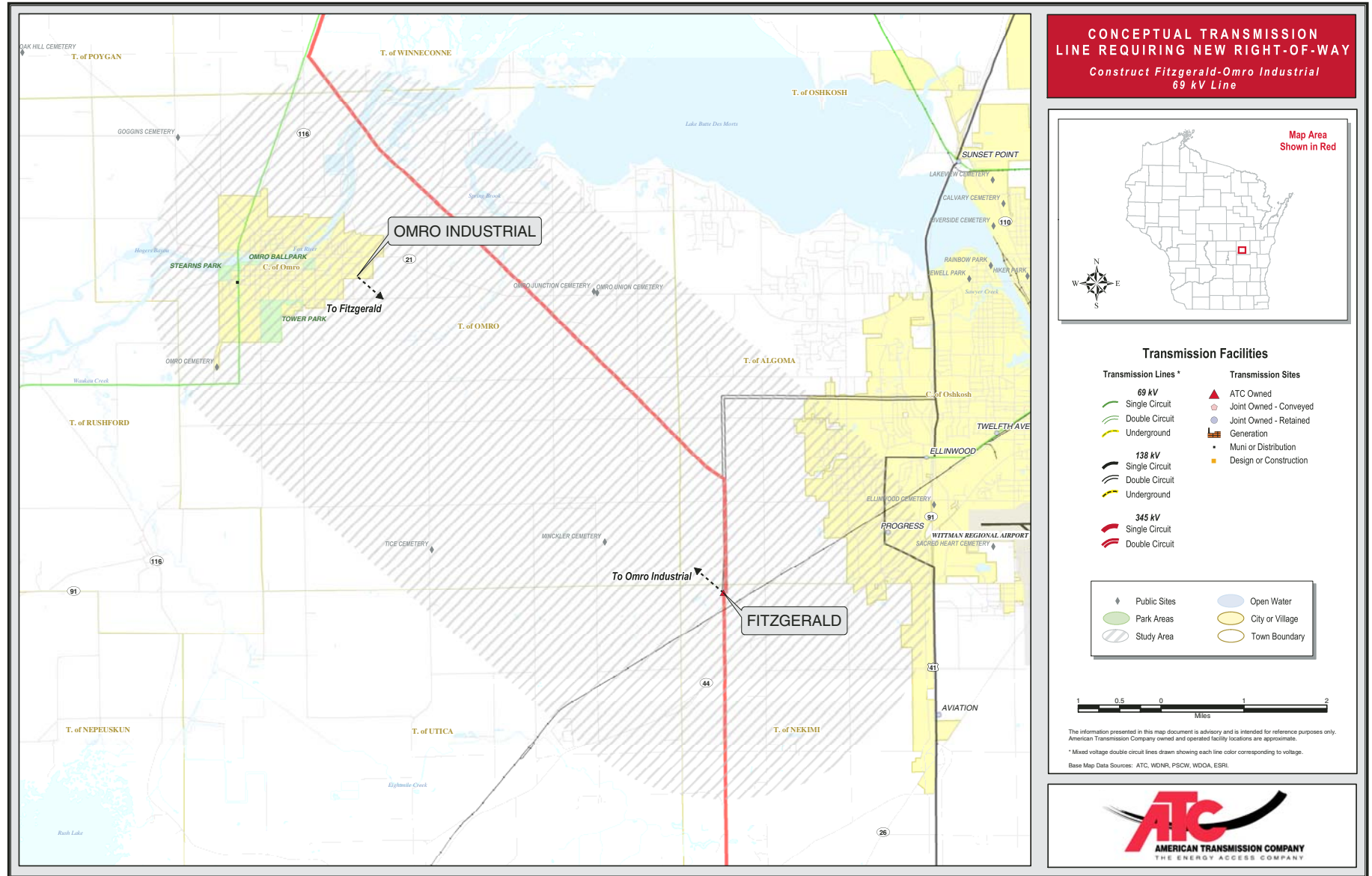
- Public Sites
- Park Areas
- Study Area
- Open Water
- City or Village
- Town Boundary

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

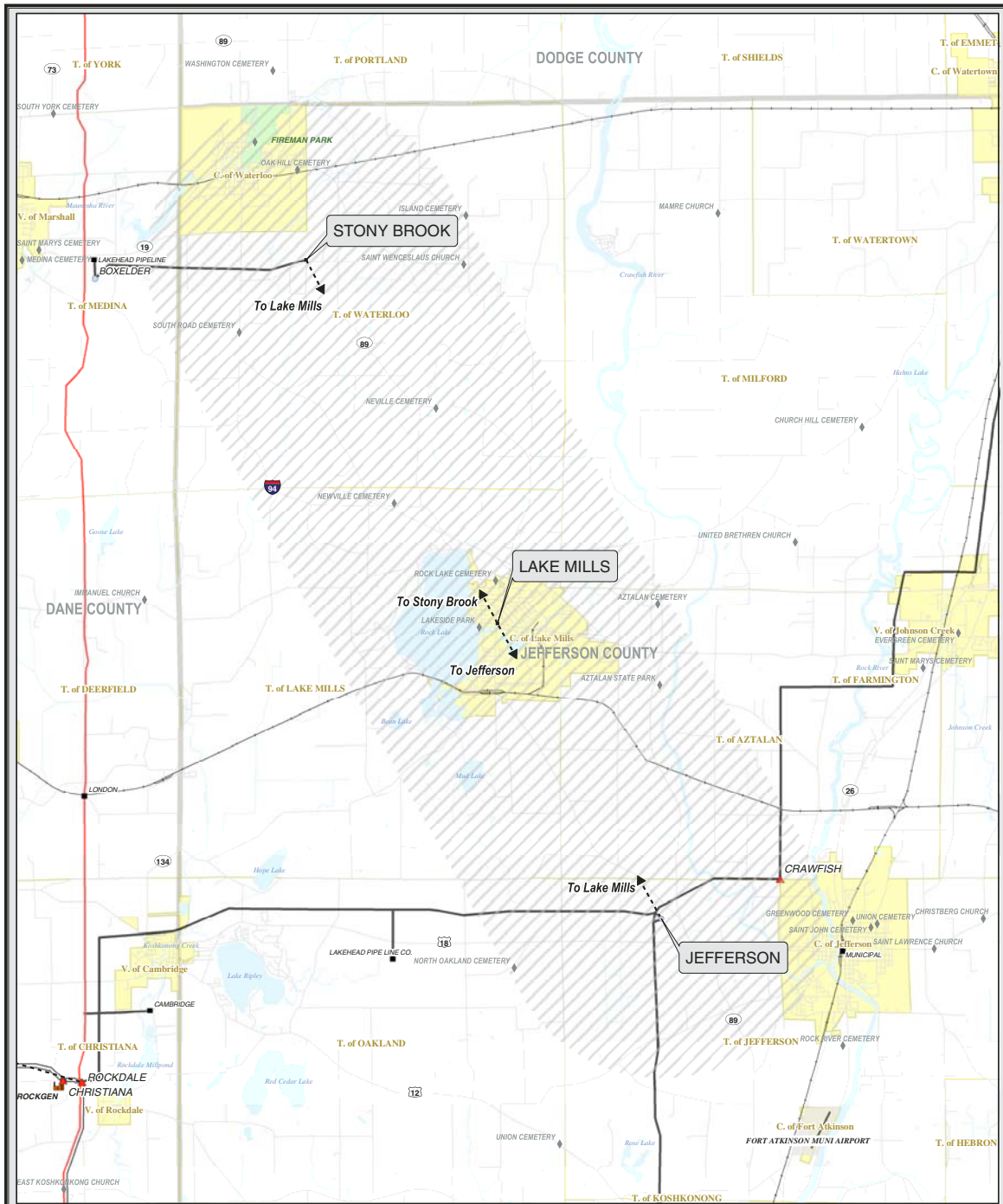


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

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

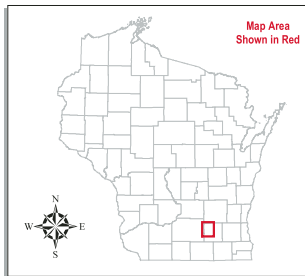


Fitzgerald-DM 69 kV.mxd Modified Jun 04, 2009



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**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Jefferson to Lake Mills to Stony Brook 138 kV Line*



- 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

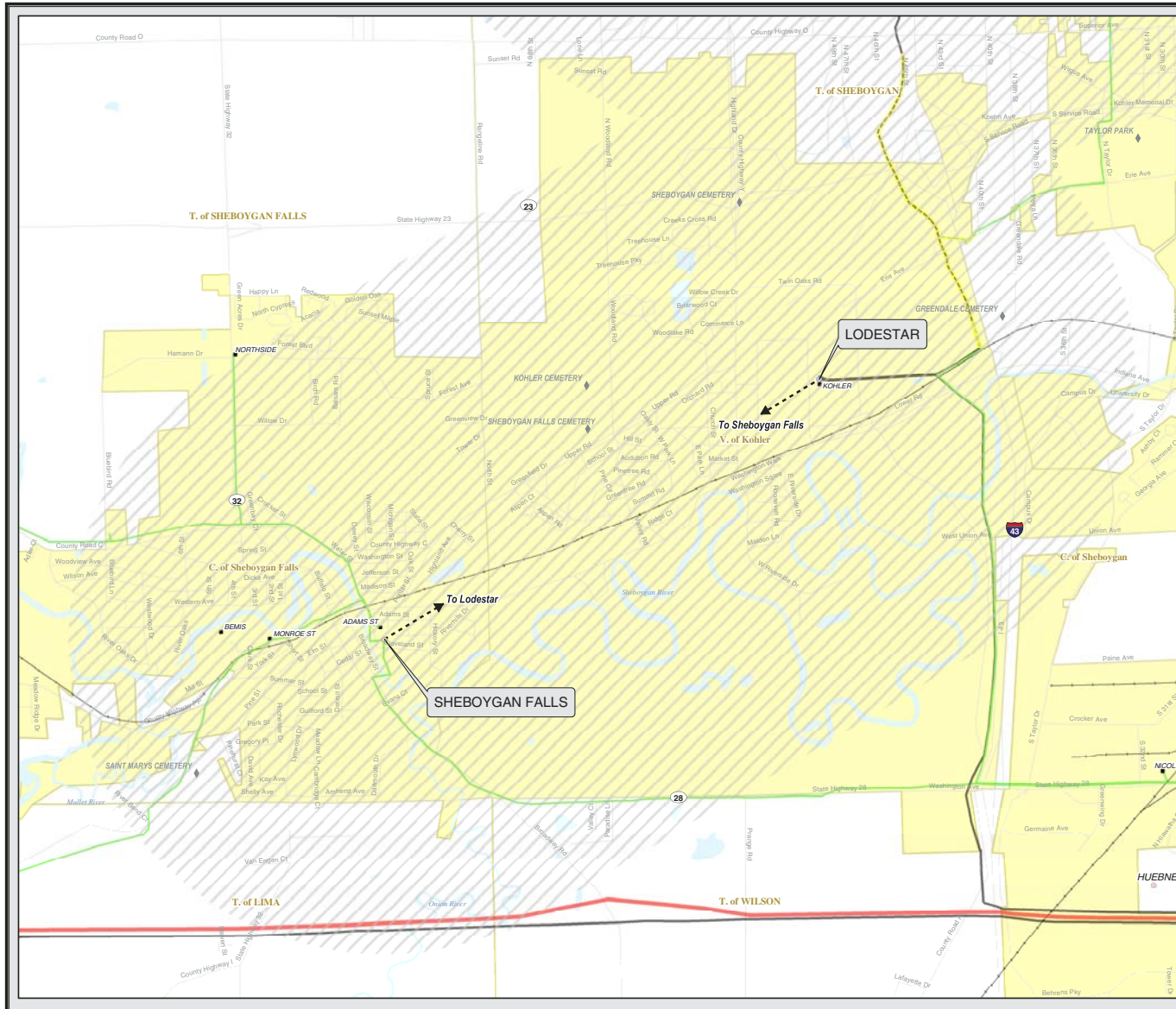
- ◆ Public Sites
- Park Areas
- Study Area
- Open Water
- City or Village
- Town Boundary

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

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 Lodestar to Sheboygan Falls 138 kV Line

Map Area Shown in Red

**Transmission Facilities**

<p><b>Transmission Lines *</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">—</span> 69 kV Single Circuit</li> <li><span style="color: green;">=</span> 69 kV Double Circuit</li> <li><span style="color: green;">—</span> 69 kV Underground</li> <li><span style="color: black;">—</span> 138 kV Single Circuit</li> <li><span style="color: black;">=</span> 138 kV Double Circuit</li> <li><span style="color: black;">—</span> 138 kV Underground</li> <li><span style="color: red;">—</span> 345 kV Single Circuit</li> <li><span style="color: red;">=</span> 345 kV Double Circuit</li> </ul>	<p><b>Transmission Sites</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">▲</span> ATC Owned</li> <li><span style="color: blue;">●</span> Joint Owned - Conveyed</li> <li><span style="color: blue;">●</span> Joint Owned - Retained</li> <li><span style="color: blue;">■</span> Generation</li> <li><span style="color: black;">•</span> Muni or Distribution</li> <li><span style="color: orange;">■</span> Design or Construction</li> </ul>
--	--

<span style="color: blue;">◆</span> Public Sites	<span style="color: lightblue;">●</span> Open Water
<span style="color: green;">●</span> Park Areas	<span style="color: yellow;">●</span> City or Village
<span style="color: grey;">▨</span> Study Area	<span style="color: black;">○</span> Town Boundary

2,000 1,000 0 2,000 Feet

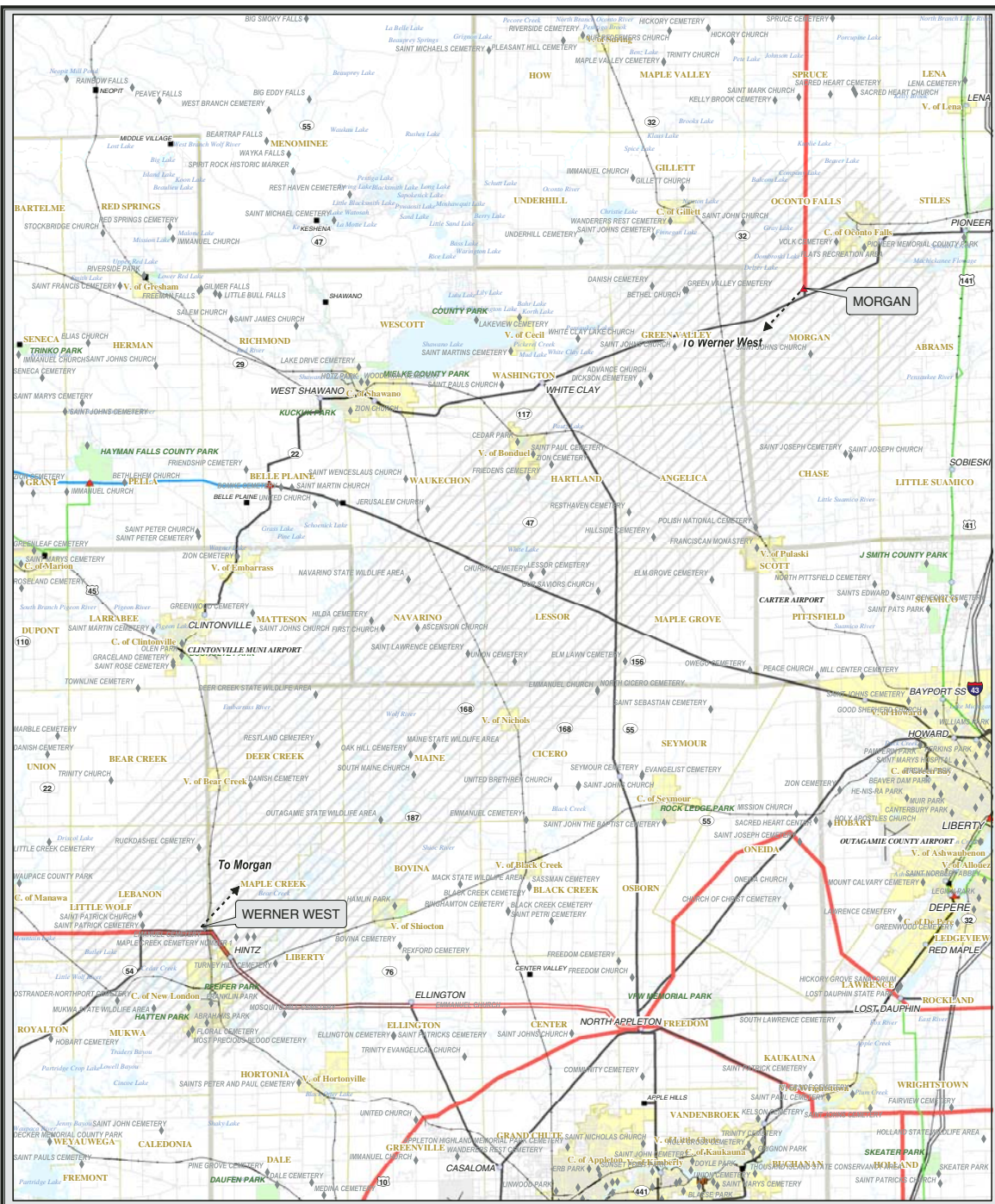
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

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

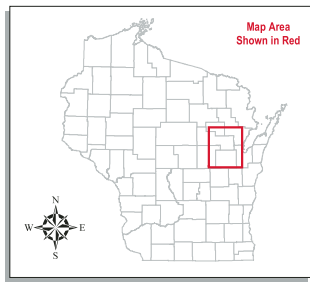
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

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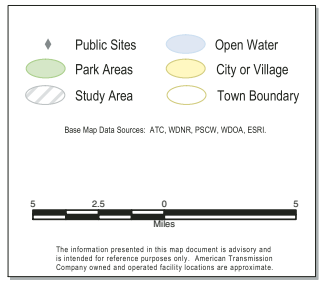
Lodestar/Sheboygan Falls 138 kV Line - Modified June 21, 2023

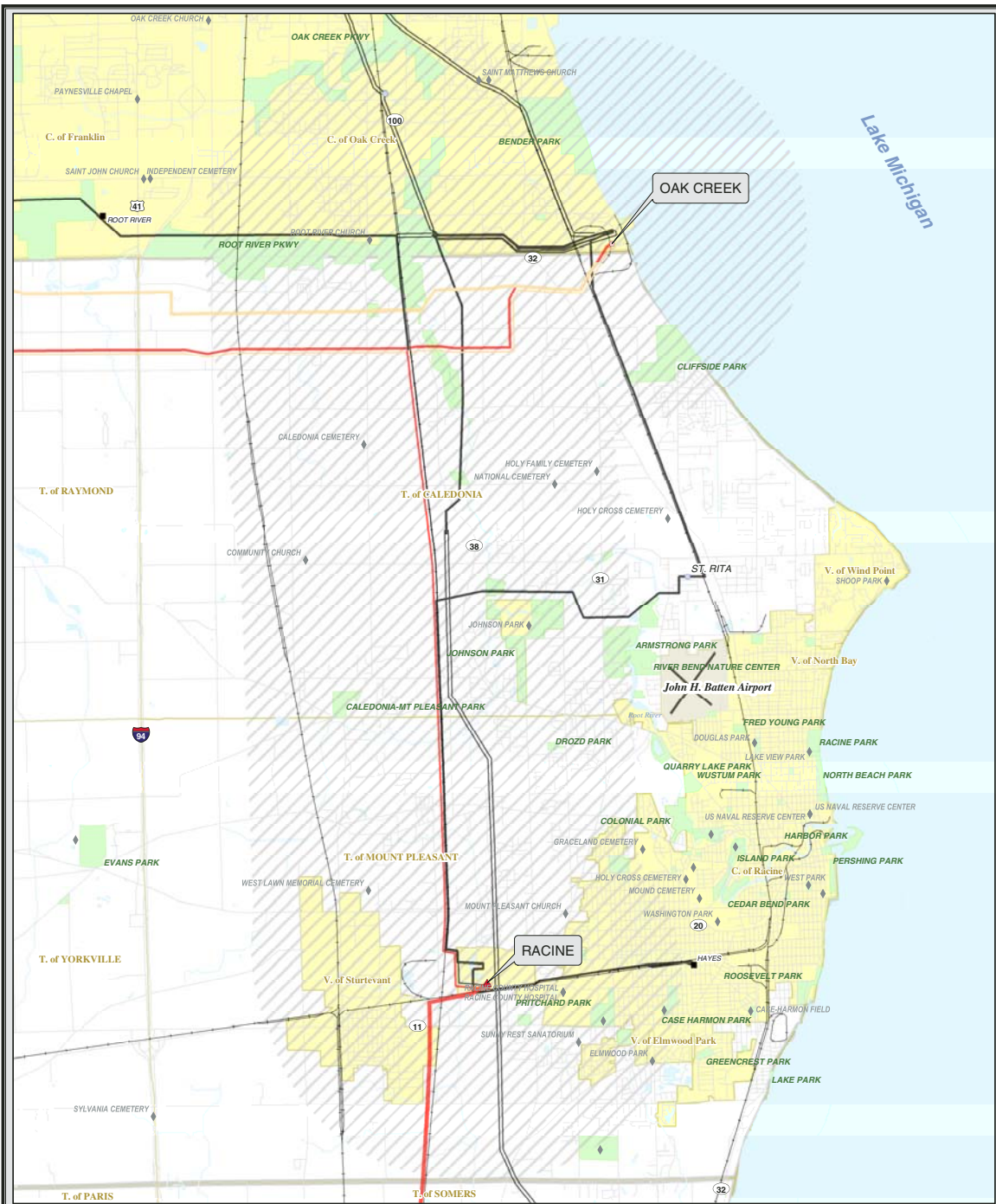


**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Morgan to Werner West 345 kV Line*

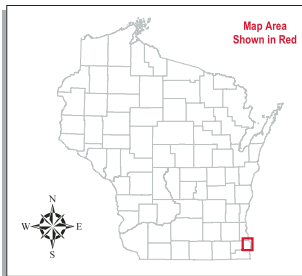


- Transmission Facilities**
- Transmission Lines \***
- 69 kV Single Circuit
  - 69 kV Double Circuit
  - 115 kV Single Circuit
  - 138 kV Single Circuit
  - 138 kV Double Circuit
  - Underground
  - 345 kV Single Circuit
  - 345 kV Double Circuit
- Transmission Sites**
- ▲ ATC Owned
  - Joint Owned - Conveyed
  - Joint Owned - Retained
  - Generation
  - Muni or Distribution
  - Design or Construction
- \* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Oak Creek to Racine 345 kV Line*



- Transmission Facilities**
- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| — 138 kV                    | ▲ ATC Owned               |
| — Single Circuit            | ○ Joint Owned - Conveyed  |
| — Double Circuit            | ● Joint Owned - Retained  |
| — 230 kV                    | ■ Generation              |
| — Single Circuit            | ■ Muni or Distribution    |
| — 345 kV                    | ■ Design or Construction  |
| — Single Circuit            |                           |
| — Double Circuit            |                           |

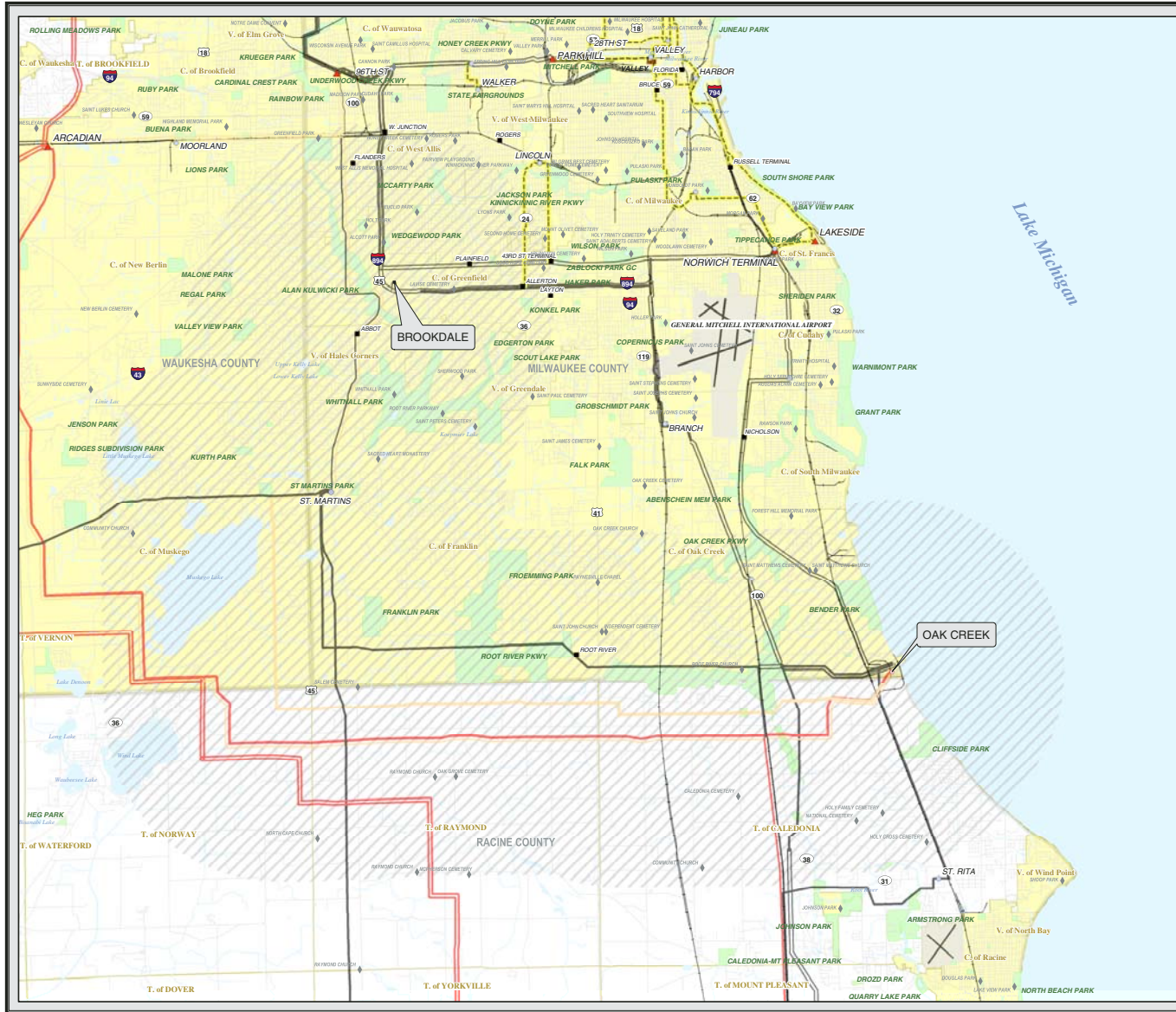
◆ Public Sites	○ Open Water
● Park Areas	○ City or Village
▨ Study Area	○ Town Boundary

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

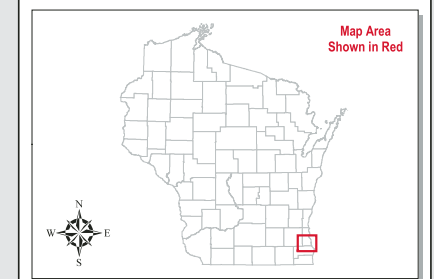
1 0.5 0 1 2  
Miles

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.



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



**Transmission Facilities**

<b>Transmission Lines *</b>	<b>Transmission Sites</b>
<ul style="list-style-type: none"> <li> 138 kV Single Circuit</li> <li> Double Circuit</li> <li> 230 kV Single Circuit</li> <li> Double Circuit</li> <li> 345 kV Single Circuit</li> <li> Double Circuit</li> </ul>	<ul style="list-style-type: none"> <li> ATC Owned</li> <li> Joint Owned - Conveyed</li> <li> Joint Owned - Retained</li> <li> Generation</li> <li> Muni or Distribution</li> <li> Design or Construction</li> </ul>

Public Sites	Open Water
Park Areas	City or Village
Study Area	Town Boundary

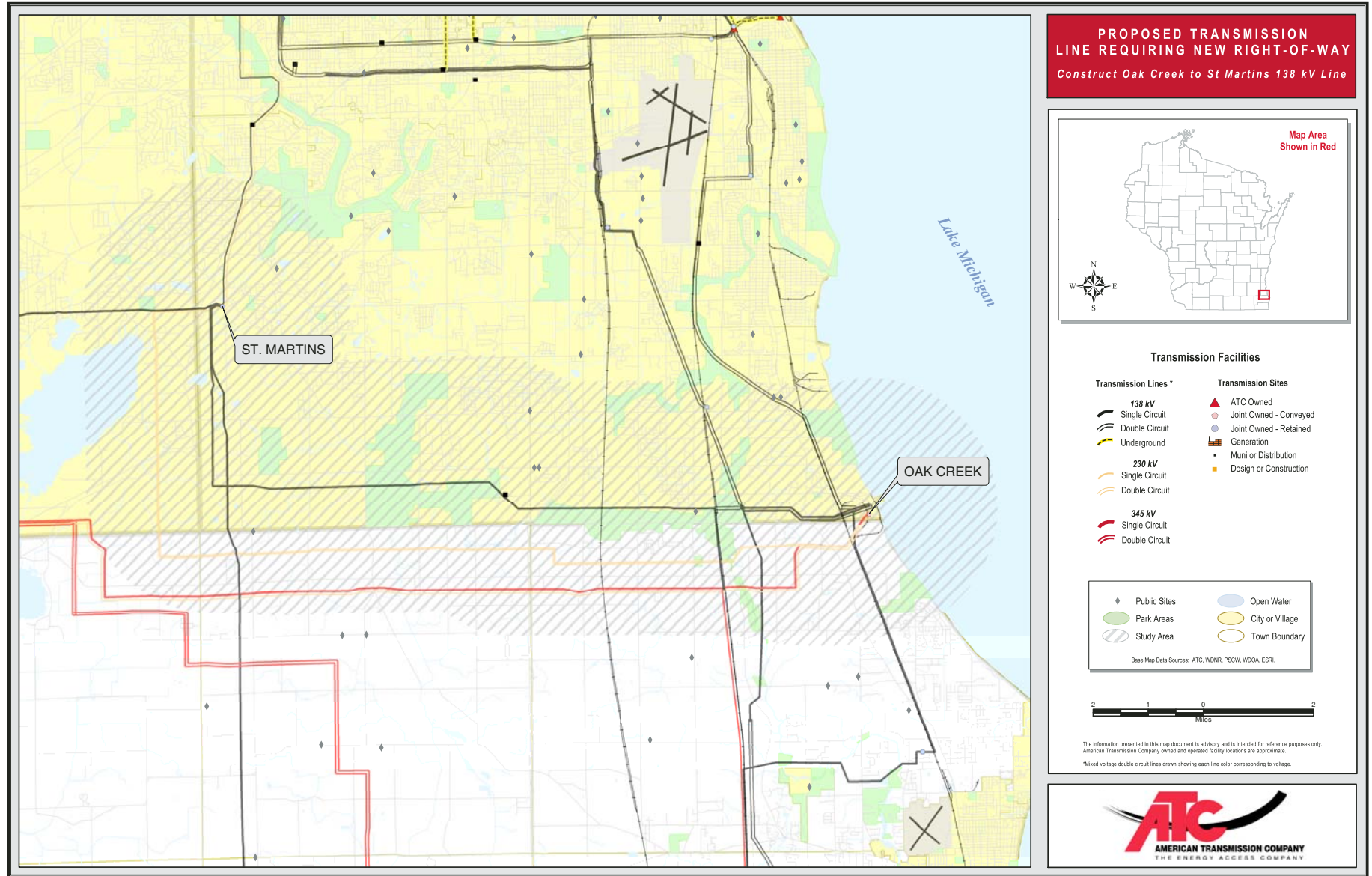
Base Map Data Sources: ATC, WDW, PSCW, WDOA, ESRI.



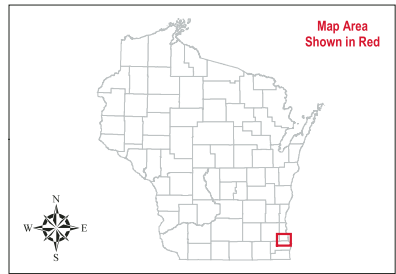
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.  
 \*Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.



Oak Creek to Brookdale 345 kV line Modified: Jun 20, 2020



**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Oak Creek to St Martins 138 kV Line*



**Transmission Facilities**

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

Public Sites	Open Water
Park Areas	City or Village
Study Area	Town Boundary

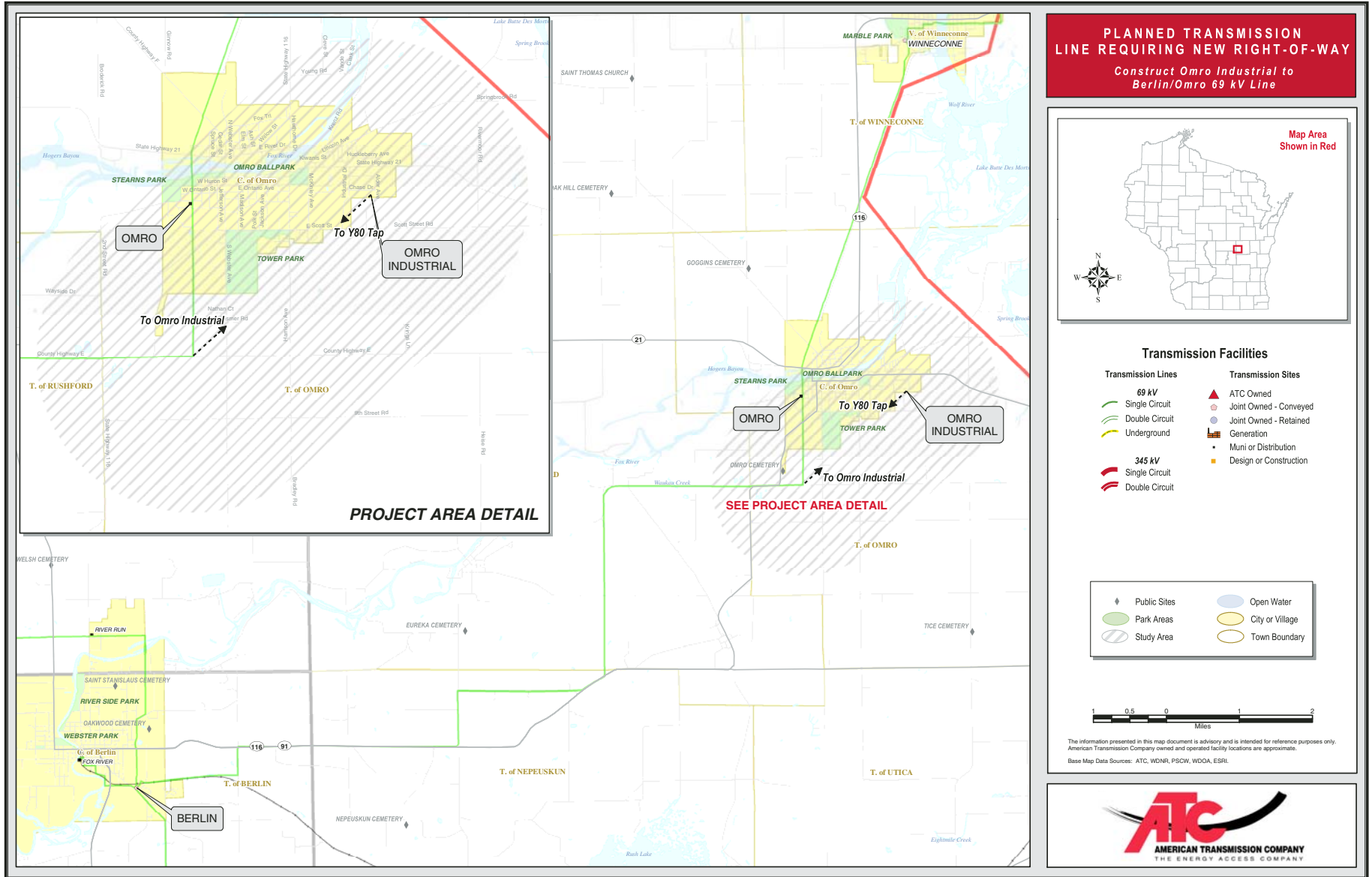
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



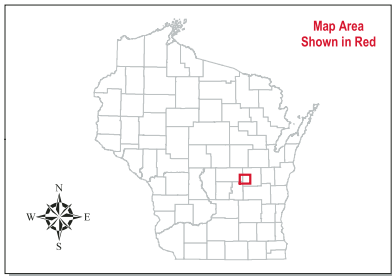
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.  
 \*Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.







**PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
 Construct Omro Industrial to Berlin/Omro 69 kV Line



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

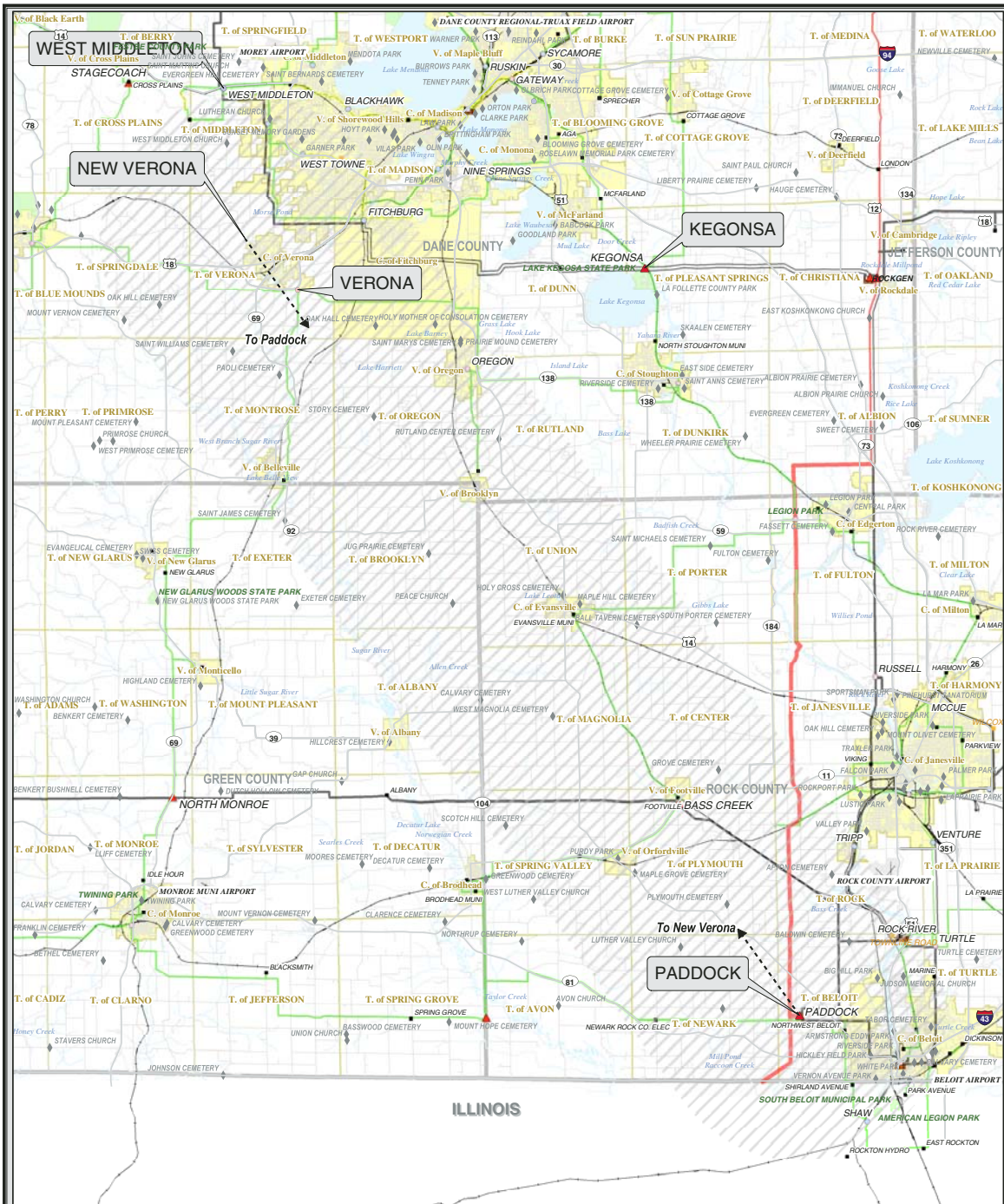
- |                |                   |
|----------------|-------------------|
| ◆ Public Sites | ○ Open Water      |
| ● Park Areas   | ○ City or Village |
| ▨ Study Area   | ○ Town Boundary   |



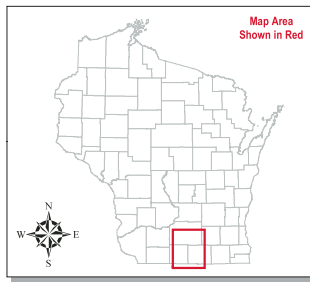
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate. Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESR.



OM-Berlin 69kV Line.mxd Modified Jun 06, 2008

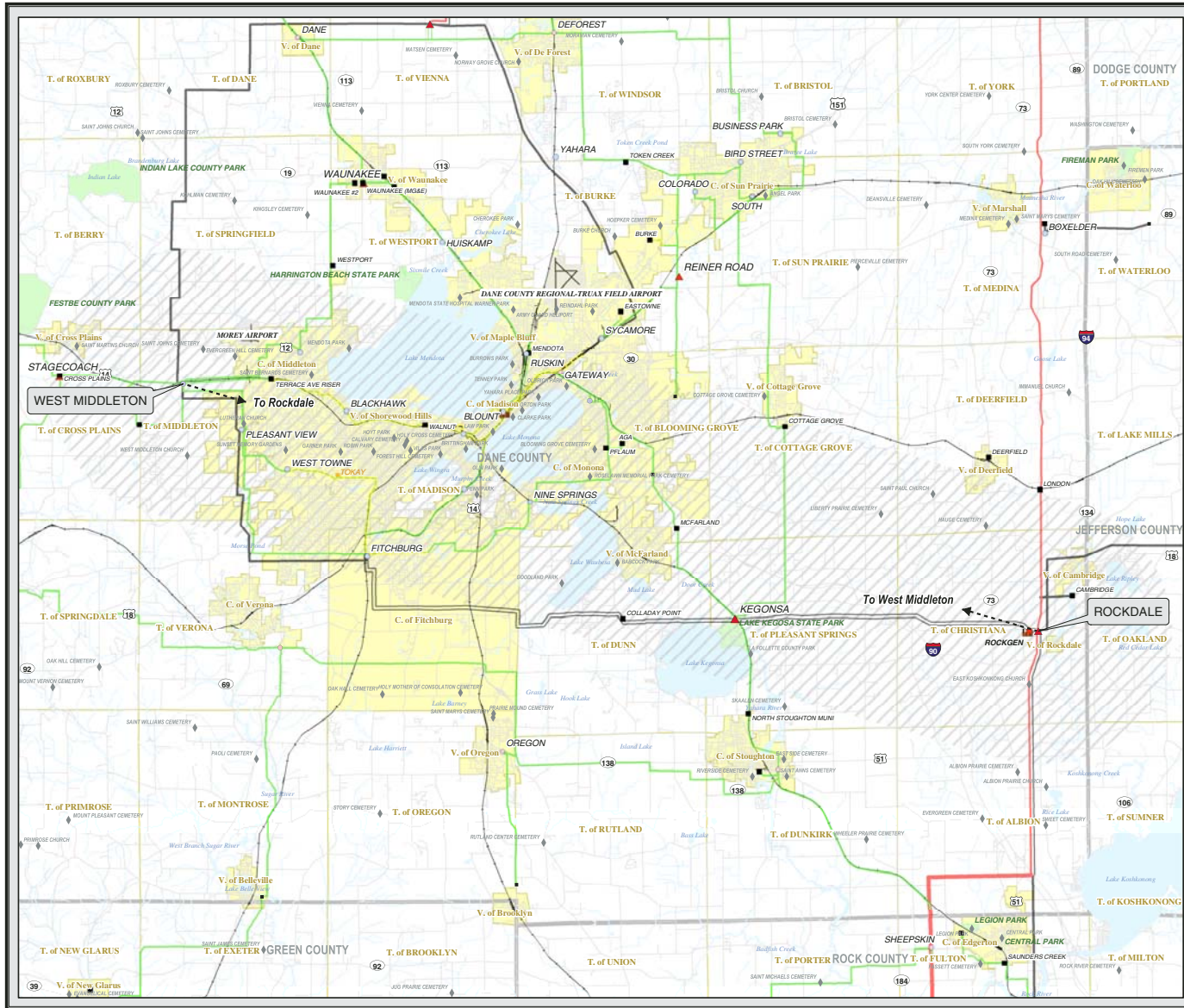


**CONCEPTUAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Paddock to New Verona 345 kV Line*

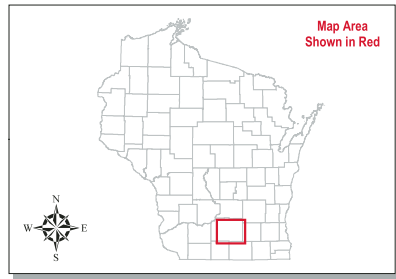


- Transmission Facilities**
- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| 69 kV<br>Single Circuit     | ▲ ATC Owned               |
| 69 kV<br>Double Circuit     | ● Joint Owned - Conveyed  |
| Underground                 | ● Joint Owned - Retained  |
| 138 kV<br>Single Circuit    | ■ Generation              |
| 138 kV<br>Double Circuit    | • Muni or Distribution    |
| Underground                 | ■ Design or Construction  |
| 345 kV<br>Single Circuit    |                           |
| 345 kV<br>Double Circuit    |                           |
- \* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

- |                |                   |
|----------------|-------------------|
| ◆ Public Sites | ○ Open Water      |
| ● Park Areas   | ● City or Village |
| ○ Study Area   | ○ Town Boundary   |
- Base Map Data Sources: ATC, WDR, 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.



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



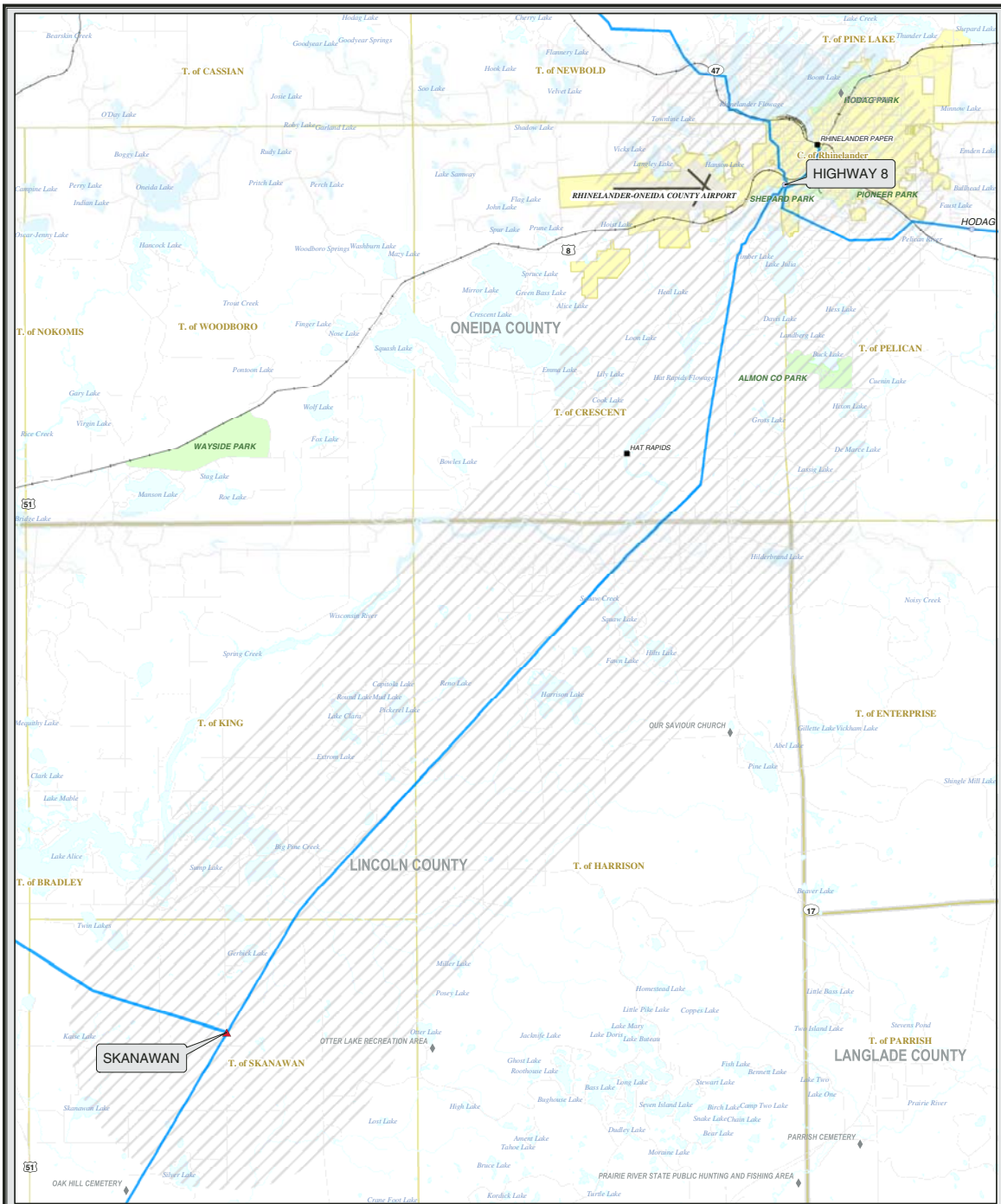
- Transmission Facilities**
- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| 69 kV<br>Single Circuit     | ▲ ATC Owned               |
| 69 kV<br>Double Circuit     | ○ Joint Owned - Conveyed  |
| 138 kV<br>Single Circuit    | ○ Joint Owned - Retained  |
| 138 kV<br>Double Circuit    | ■ Generation              |
| Underground                 | ■ Muni or Distribution    |
| 345 kV<br>Single Circuit    | ■ Design or Construction  |
| 345 kV<br>Double Circuit    |                           |

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

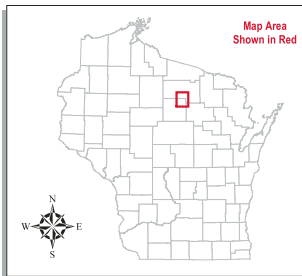


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.  
 \*Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.





**PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Rebuild Skanawan to Highway 8 115 kV Line to Double Circuit 115 kV*



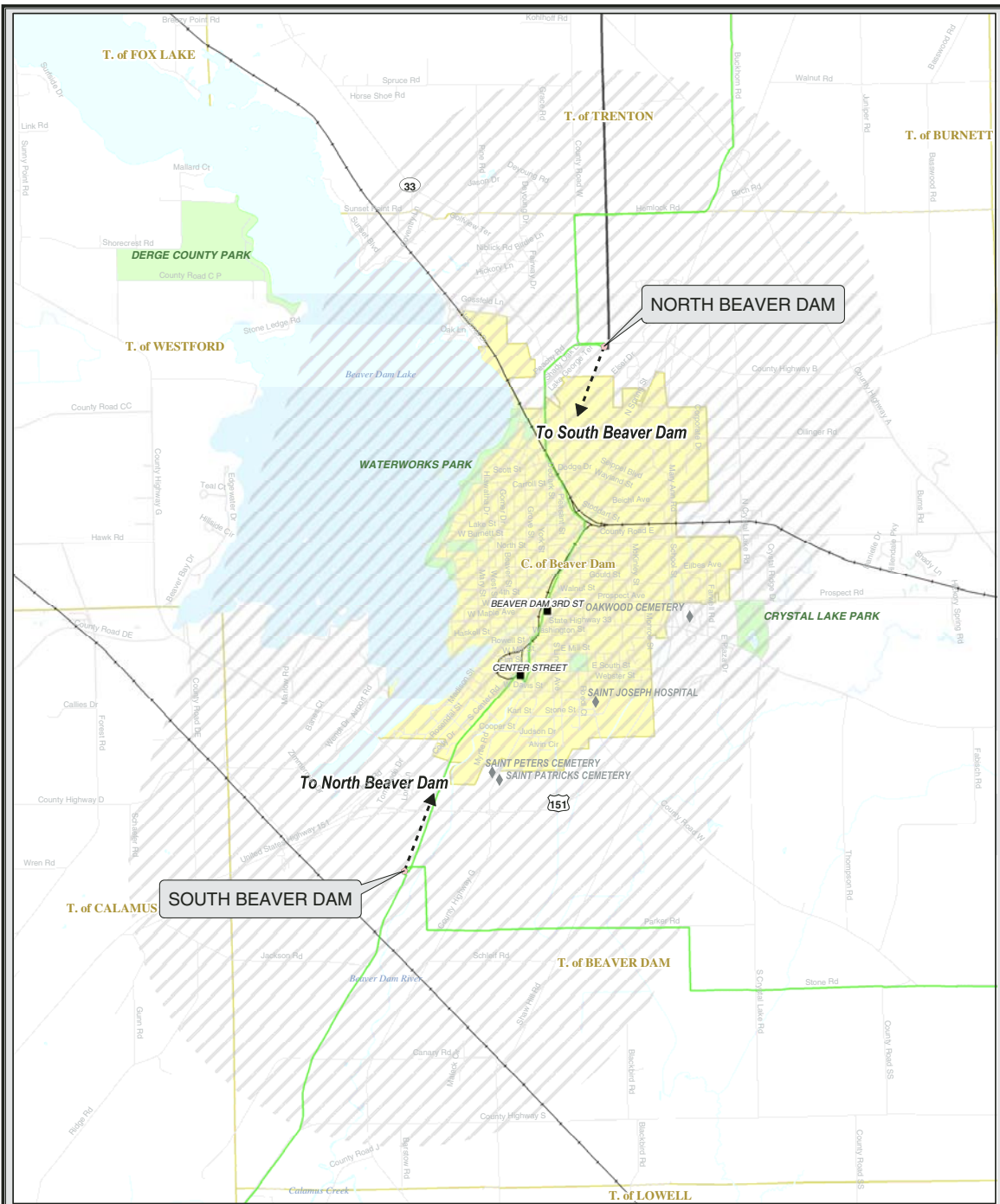
**Transmission Facilities**

- Transmission Sites**
- ▲ ATC Owned
  - Joint Owned - Conveyed
  - Joint Owned - Retained
  - Generation
  - Muni or Distribution
  - Design or Construction
- Transmission Lines**
- 115 kV Single Circuit

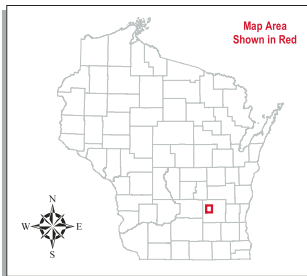
- ◆ Public Sites
  - Park Areas
  - Study Area
  - Open Water
  - City or Village
  - Town Boundary
- Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.



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.



**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
 Construct South Beaver Dam to North Beaver Dam 138 kV Line



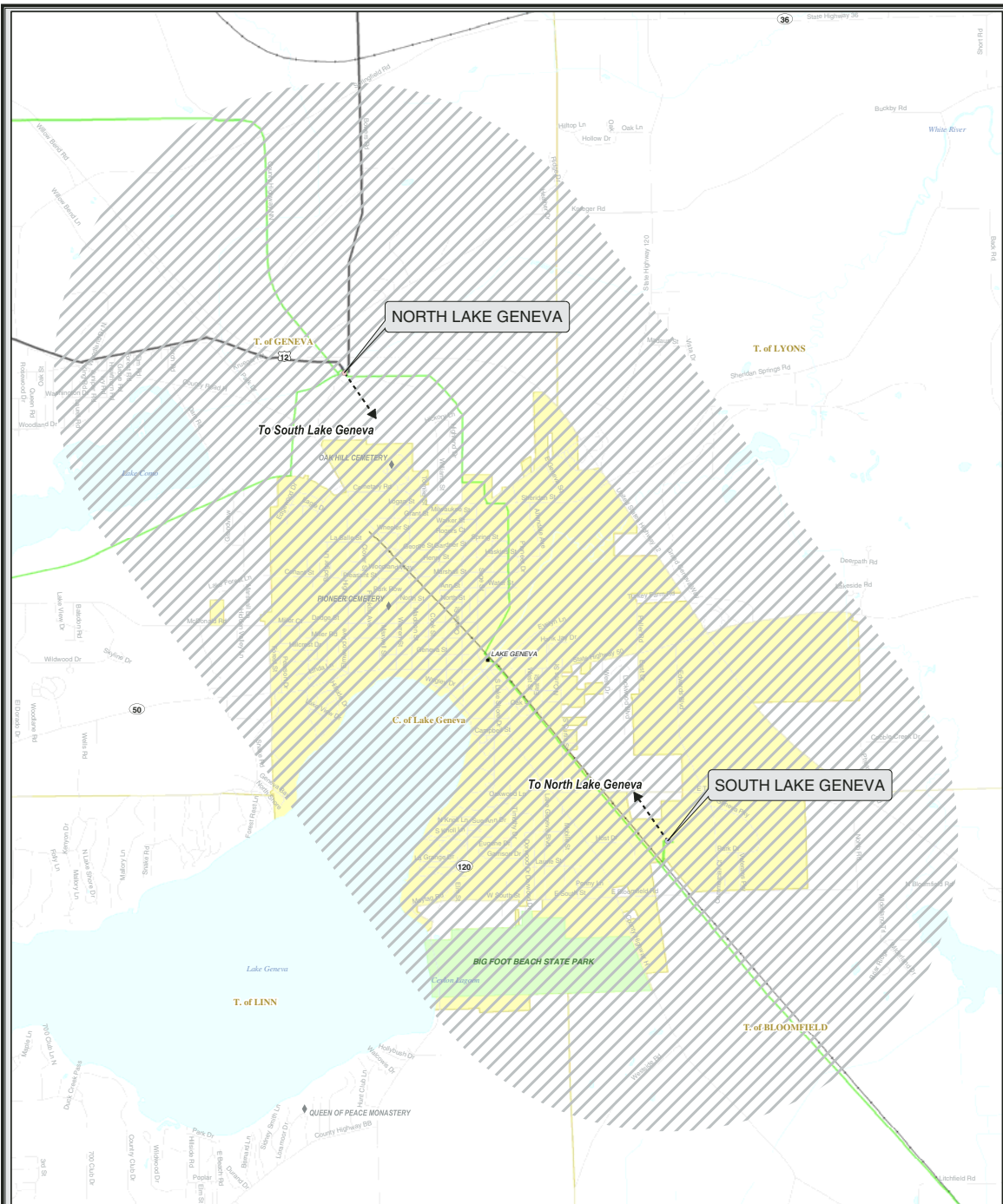
- Transmission Facilities**
- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| 69 kV                       | ▲ ATC Owned               |
| Single Circuit              |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

◆ Public Sites	○ Open Water
● Park Areas	● City or Village
▨ Study Area	○ Town Boundary

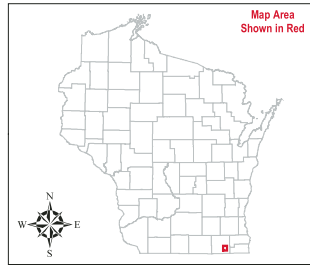
Base Map Data Sources: ATC, WDNR, PSCW, WDOA, ESRI.

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.



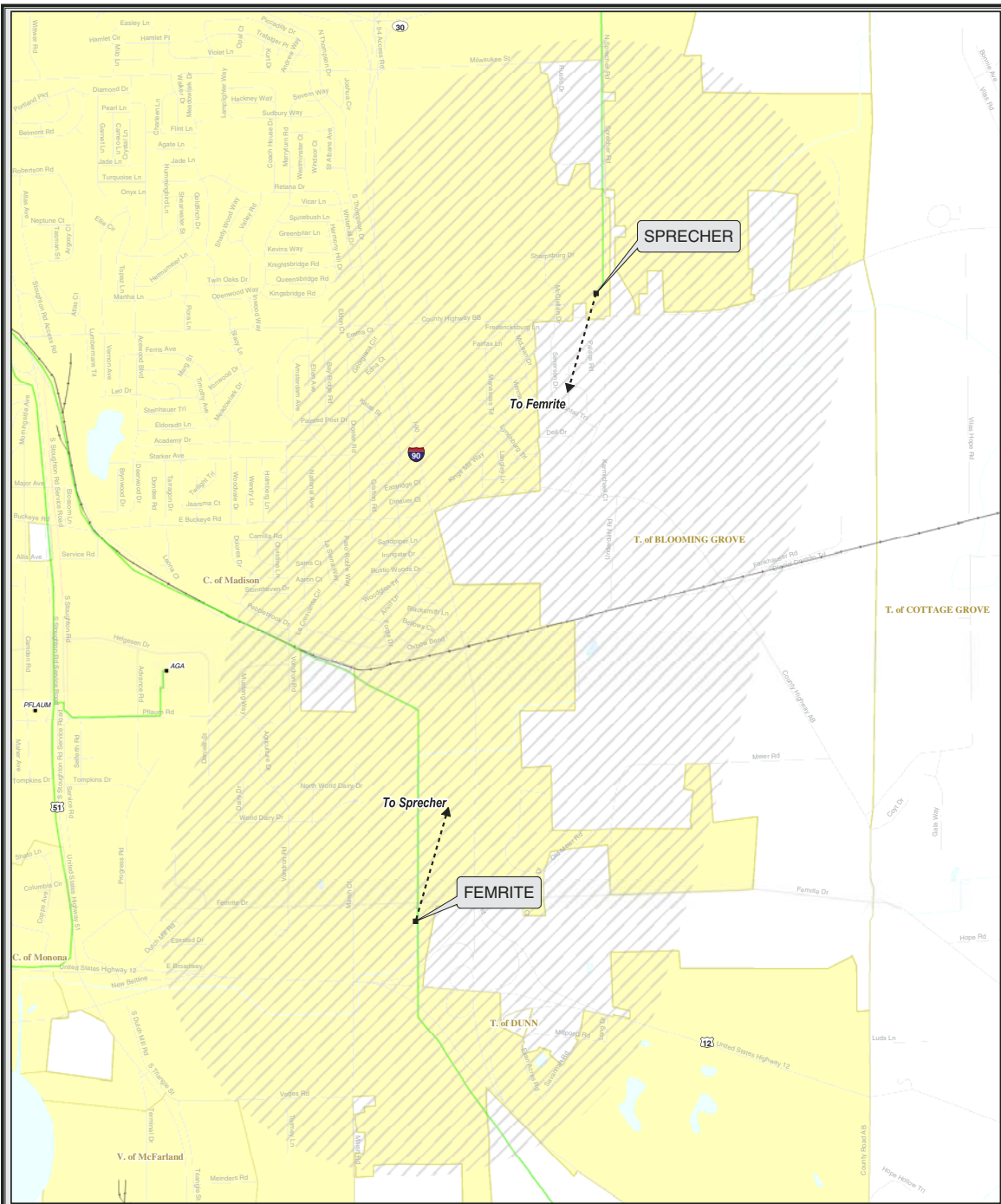
**CONCEPTUAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct South Lake Geneva to North Lake Geneva 138 kV Line*



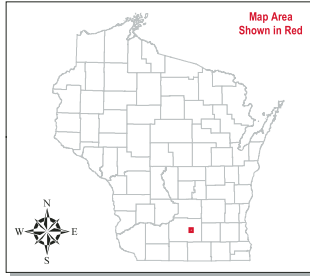
- Transmission Facilities**
- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| 69 kV                       | ▲ ATC Owned               |
| Single Circuit              | ● 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 |
| ○ Study Area   | ○ Town Boundary   |
- Base Map Data Sources: ATC, WGNR, PSCW, WDOA, ESRI.
- 

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



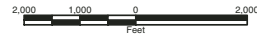
**PROPOSED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Sprecher to Femrite 138 kV Line*



- Transmission Lines \***
- Single Circuit
  - Double Circuit
  - Underground
- Transmission Sites**
- ▲ ATC Owned
  - Joint Owned - Conveyed
  - Joint Owned - Retained
  - Generation
  - Muni or Distribution
  - Design or Construction

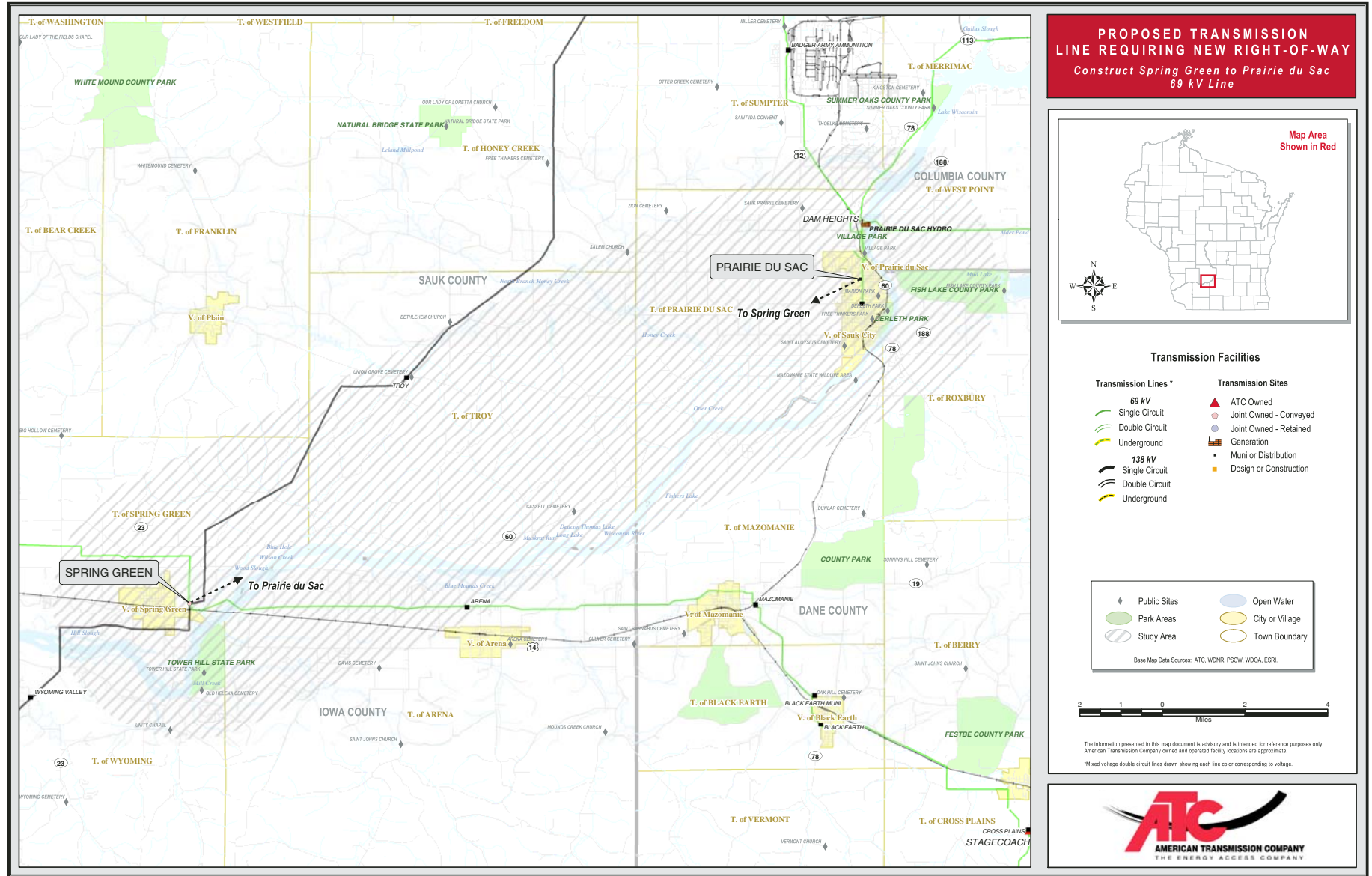
- ◆ Public Sites
- Open Water
- Park Areas
- City or Village
- Study Area
- Town Boundary

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

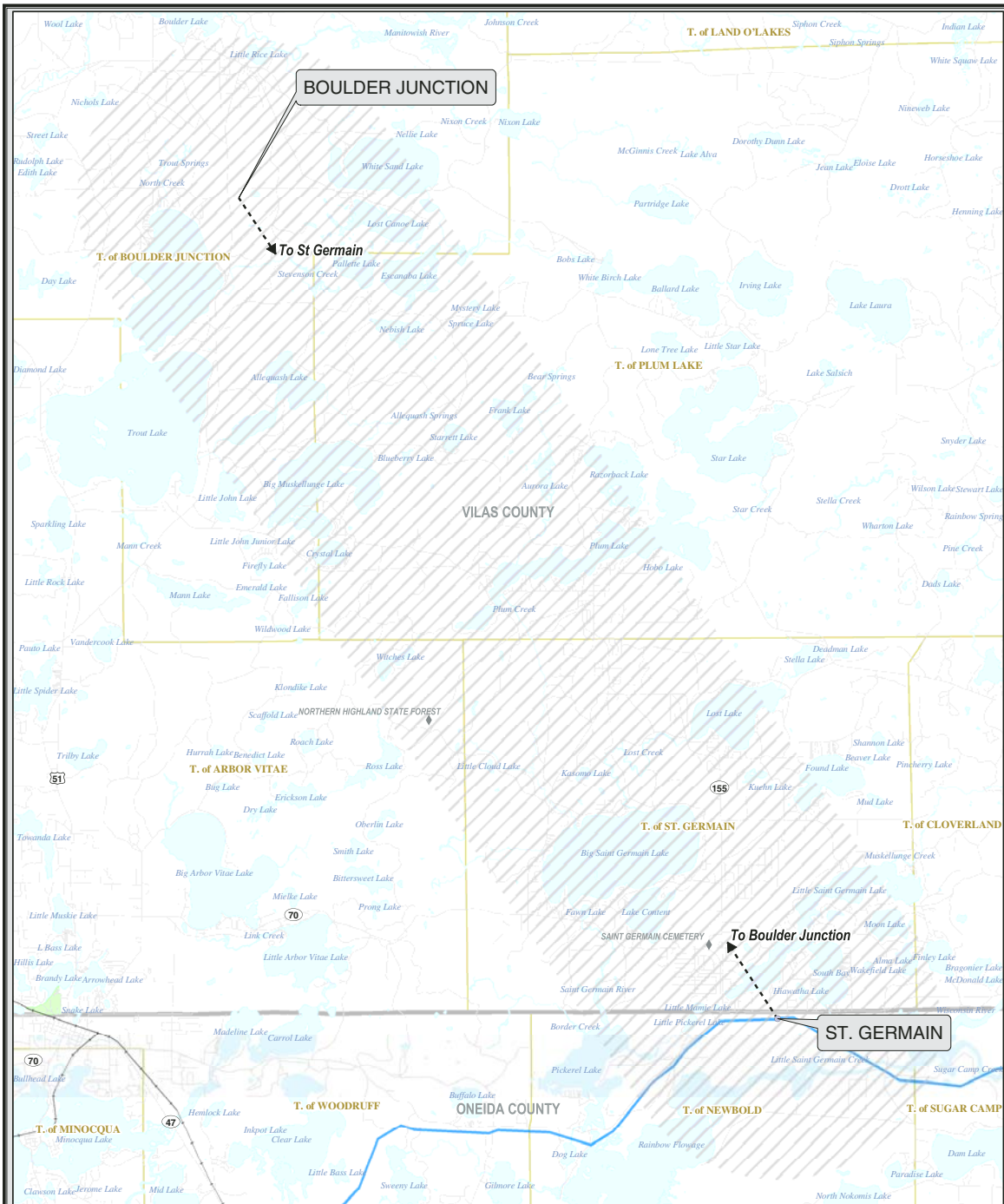


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

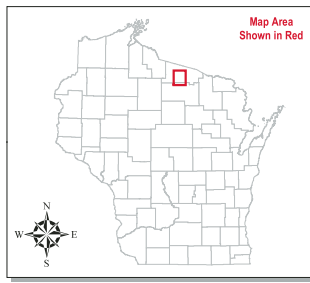
\* Mixed voltage double circuit lines shown showing each line color corresponding to voltage.







**CONCEPTUAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct St Germain to Boulder Junction 115 kV Line*



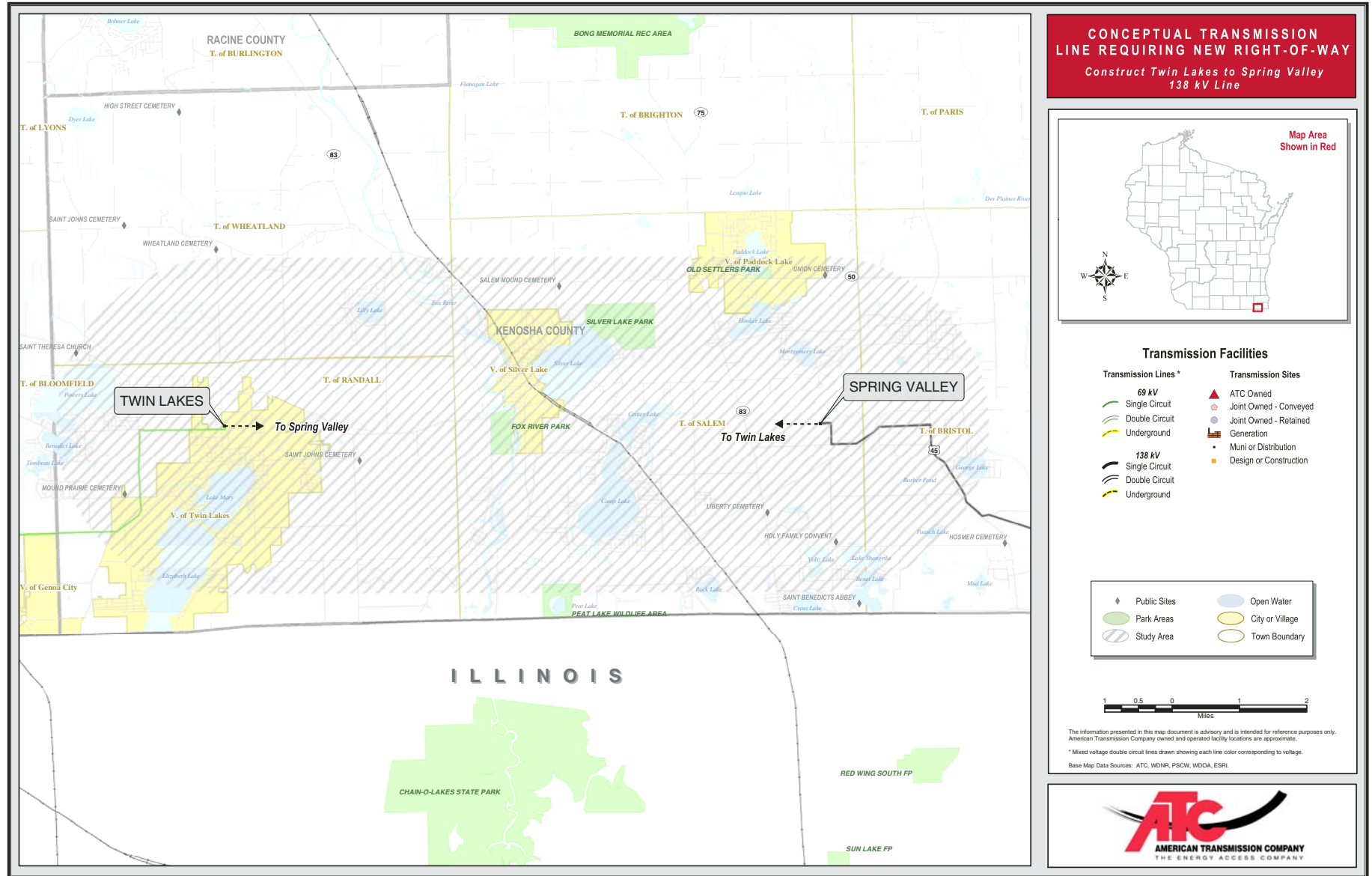
- Transmission Facilities**
- Transmission Lines \***
    - 115 kV
    - Single Circuit
    - Double Circuit
  - Transmission Sites**
    - ▲ ATC Owned
    - Joint Owned - Conveyed
    - Joint Owned - Retained
    - Generation
    - Muni or Distribution
    - Design or Construction

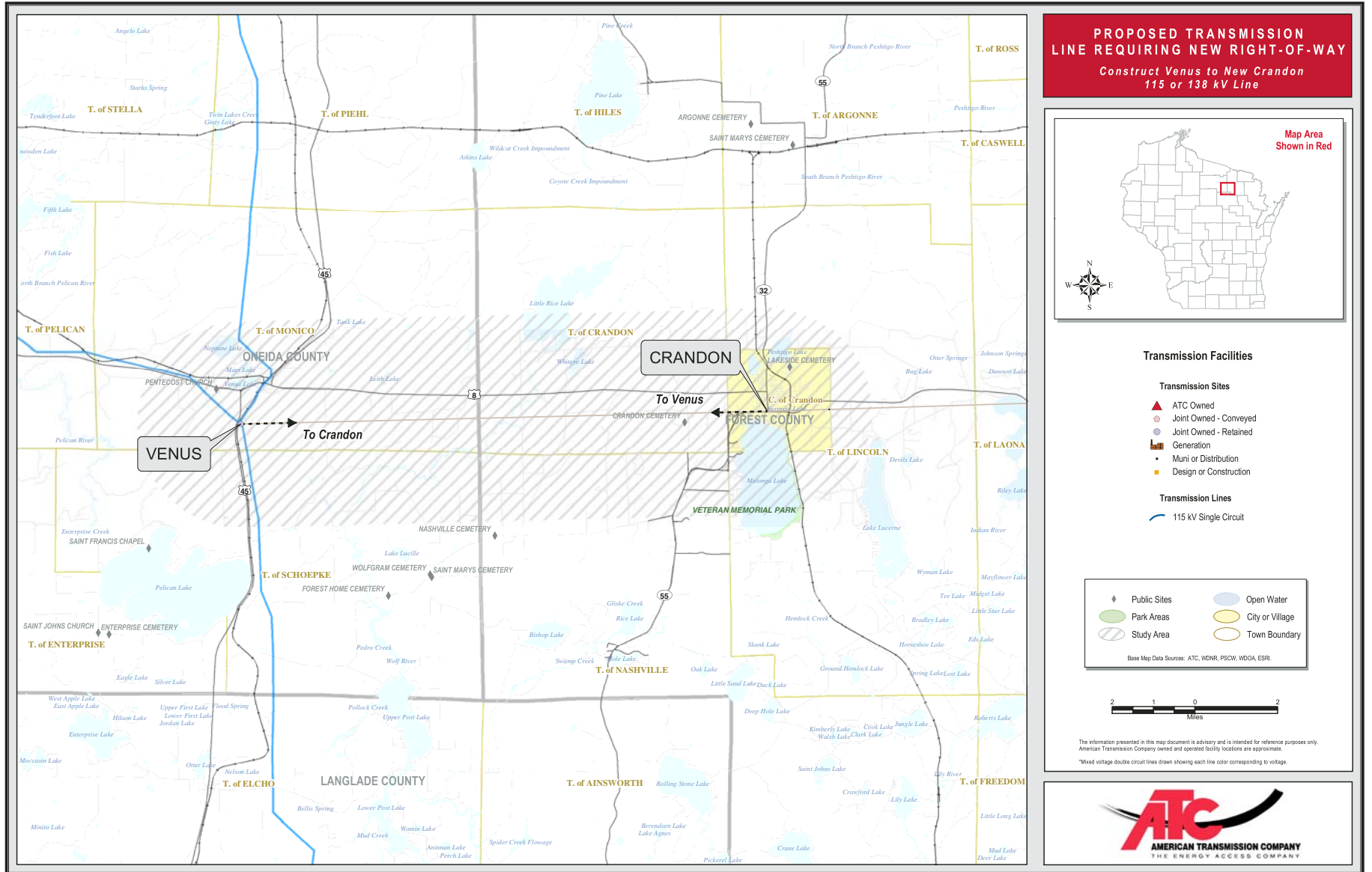
- ◆ Public Sites
- Open Water
- Park Areas
- City or Village
- Study Area
- Town Boundary

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

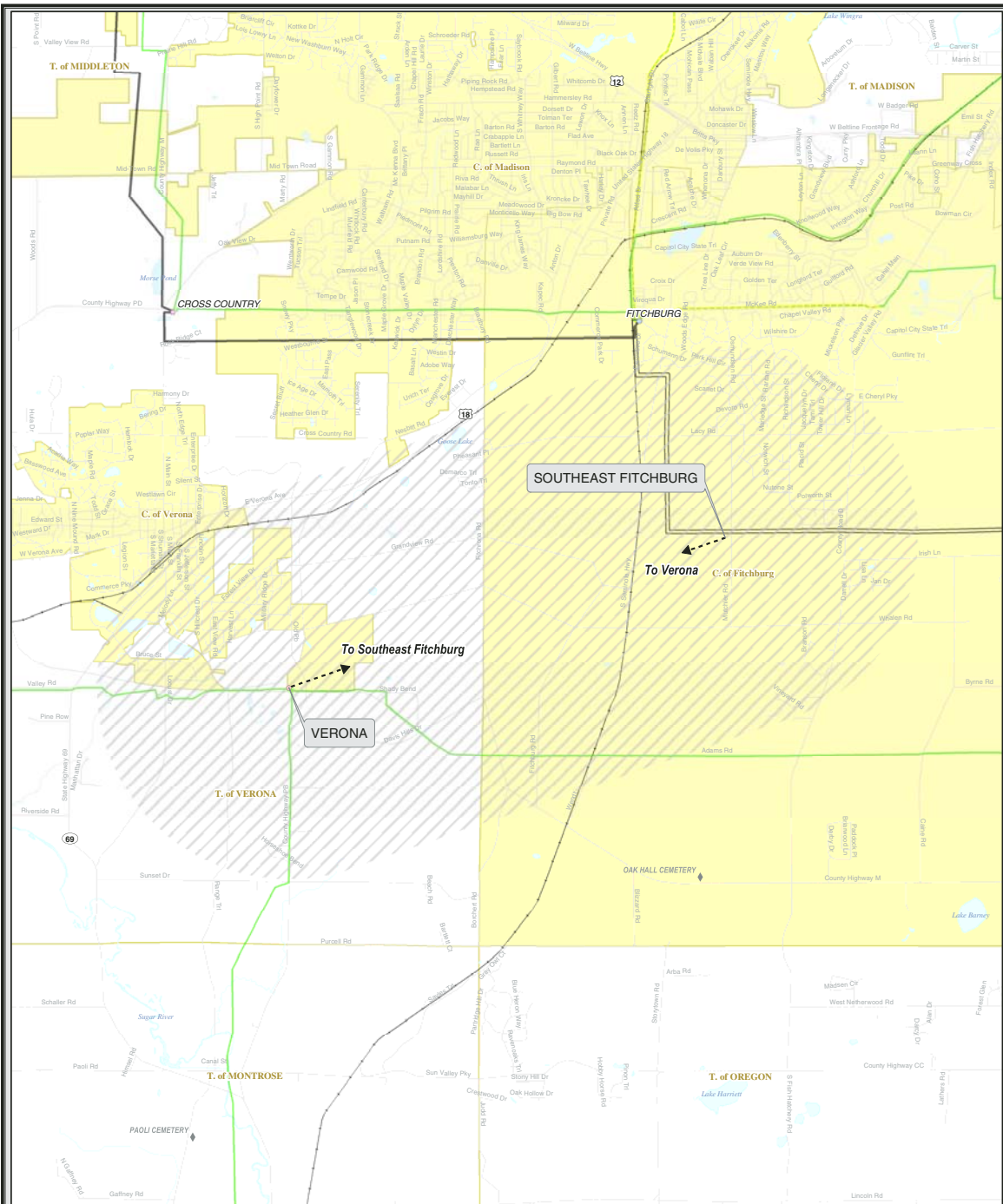
The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company owned and operated facility locations are approximate.

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

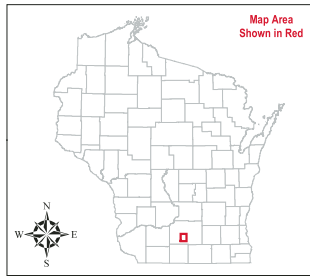




Venus Crandon 115 kV Line.mxd Modified: Jun 24, 2003



**CONCEPTUAL TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
*Construct Verona to Southeast Fitchburg 138 kV Line*



**Transmission Facilities**

- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| 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              |                           |

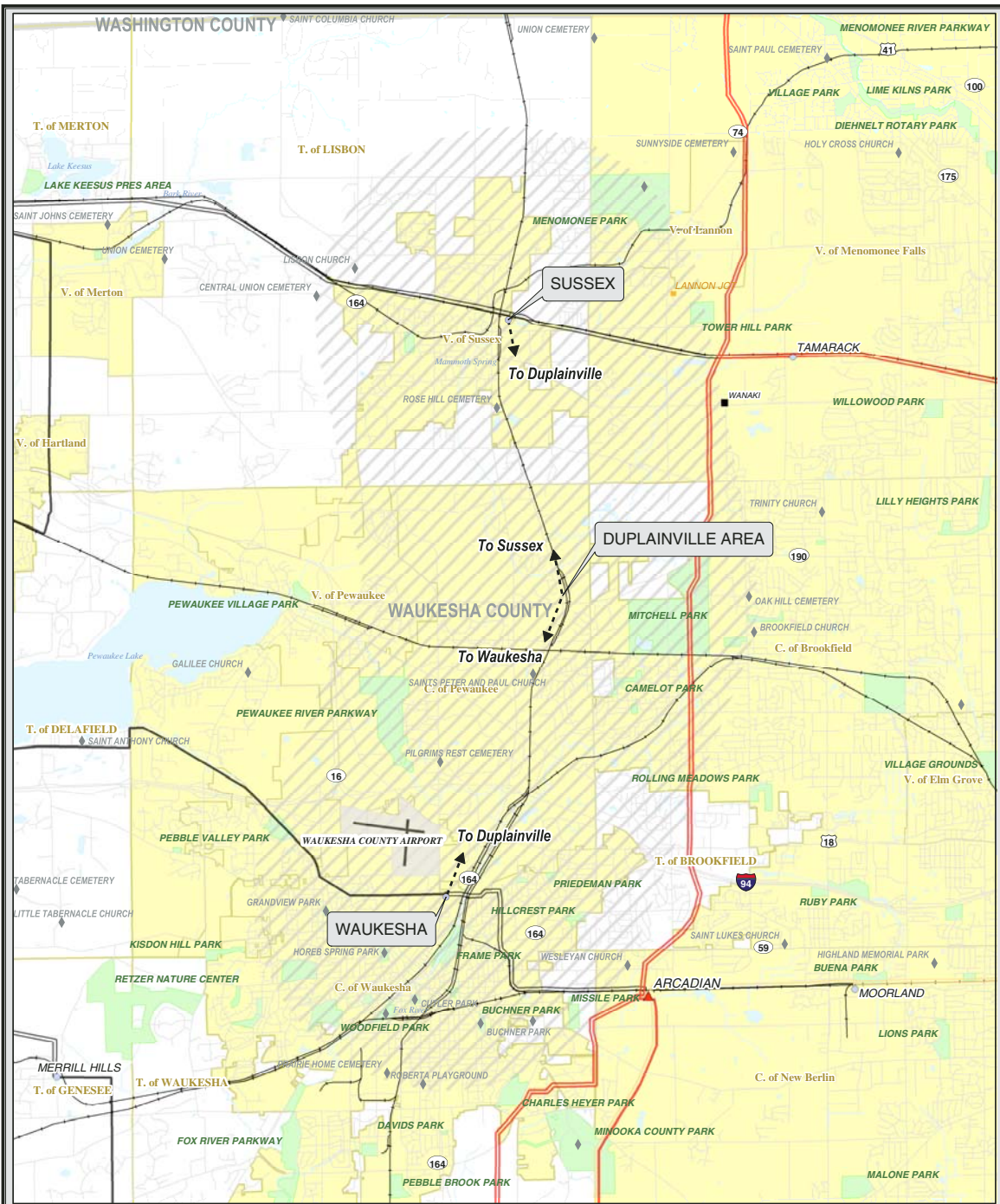
- |                |                   |
|----------------|-------------------|
| ◆ Public Sites | ○ Open Water      |
| ● Park Areas   | ○ City or Village |
| ▨ Study Area   | ○ Town Boundary   |

Base Map Data Sources: ATC, WDMR, PSCW, WDOA, ESRI

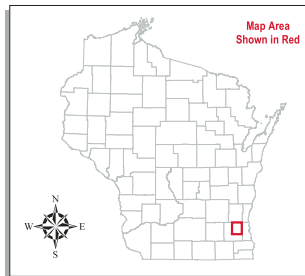


The information presented in this map document is advisory and is intended for reference purposes only. American Transmission Company names and operated facility locations are approximate.

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



**PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
 Construct Waukesha - Duplainville - Sussex 138 kV Line

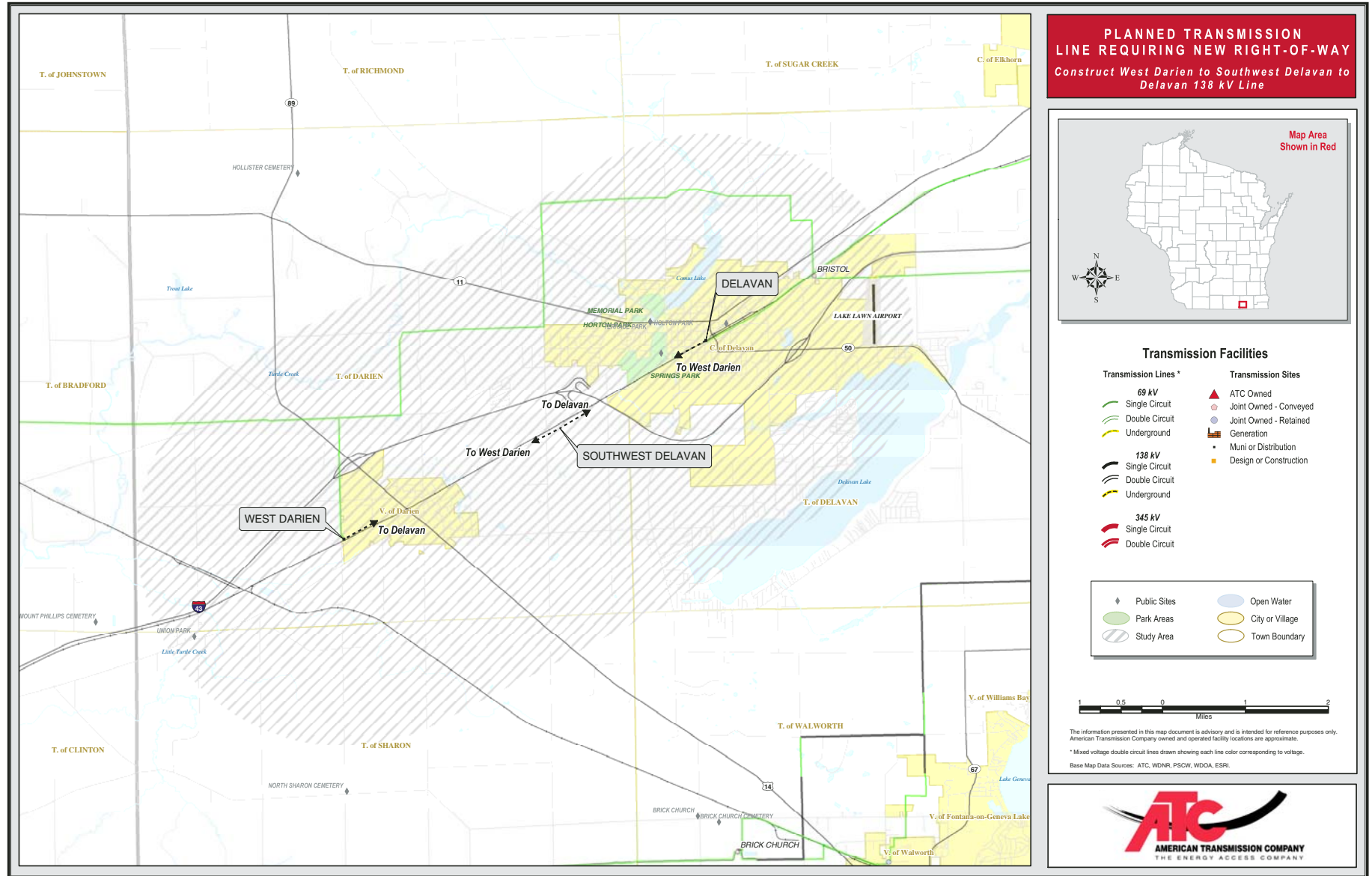


- Transmission Facilities**
- |  |  |
|--|--|
| <p><b>Transmission Lines *</b></p> <p><b>138 kV</b></p> <ul style="list-style-type: none"> <li>— Single Circuit</li> <li>— Double Circuit</li> </ul> <p><b>230 kV</b></p> <ul style="list-style-type: none"> <li>— Single Circuit</li> <li>— Double Circuit</li> </ul> <p><b>345 kV</b></p> <ul style="list-style-type: none"> <li>— Single Circuit</li> <li>— Double Circuit</li> </ul> | <p><b>Transmission Sites</b></p> <ul style="list-style-type: none"> <li>▲ ATC Owned</li> <li>● Joint Owned - Conveyed</li> <li>● Joint Owned - Retained</li> <li>■ Generation</li> <li>■ Muni or Distribution</li> <li>■ Design or Construction</li> </ul> |
|--|--|
- \* Mixed voltage double circuit lines drawn showing each line color corresponding to voltage.

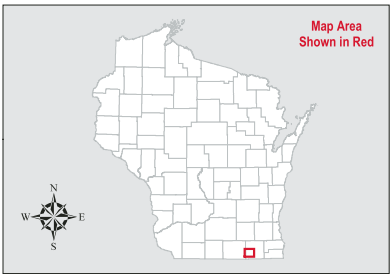
◆ Public Sites	○ Open Water
● Park Areas	○ City or Village
▨ Study Area	○ Town Boundary

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.



**PLANNED TRANSMISSION LINE REQUIRING NEW RIGHT-OF-WAY**  
 Construct West Darien to Southwest Delavan to Delavan 138 kV Line



**Transmission Facilities**

- |                             |                           |
|-----------------------------|---------------------------|
| <b>Transmission Lines *</b> | <b>Transmission Sites</b> |
| 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 |
| ▨ Study 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.

