

Chapter 4:

Utilities & Community Facilities

The Utilities and Community Facilities Element includes background information, goals, objectives, and recommendations to guide the future development of utilities and community facilities in Muskego. The chapter describes the location, use, and capacity of existing public utilities and community facilities that serve the City and includes an approximate timetable that forecasts the need to expand and rehabilitate or create new utilities and facilities.

The goal of this Utilities and Community Facilities Element is as follows below. The objectives and recommendations are found in the Chapter 10 of this *Plan*.

Utilities and Community Facilities Goal: Provide efficient and cost effective services, utilities, and community facilities necessary to improve the quality of life of Muskego’s residents, business and property owners, and guests. Supply and coordinate the location of public utilities and facilities consistent with Muskego’s projected growth, resident expectations, and development patterns presented herein.

Existing Utilities and Community Facilities

Sanitary Sewer System

Muskego’s sanitary sewerage facilities are among the most important and complex public works infrastructure affecting health and welfare in the community. Sanitary sewage, if not properly conveyed, treated, and disposed of can spread disease among people and animals; contribute to surface and ground water pollution, reduce property values, and create severe aesthetic nuisances. The City of Muskego is dedicated to providing the community with the highest of sanitary services.

Existing Sanitary Sewer System

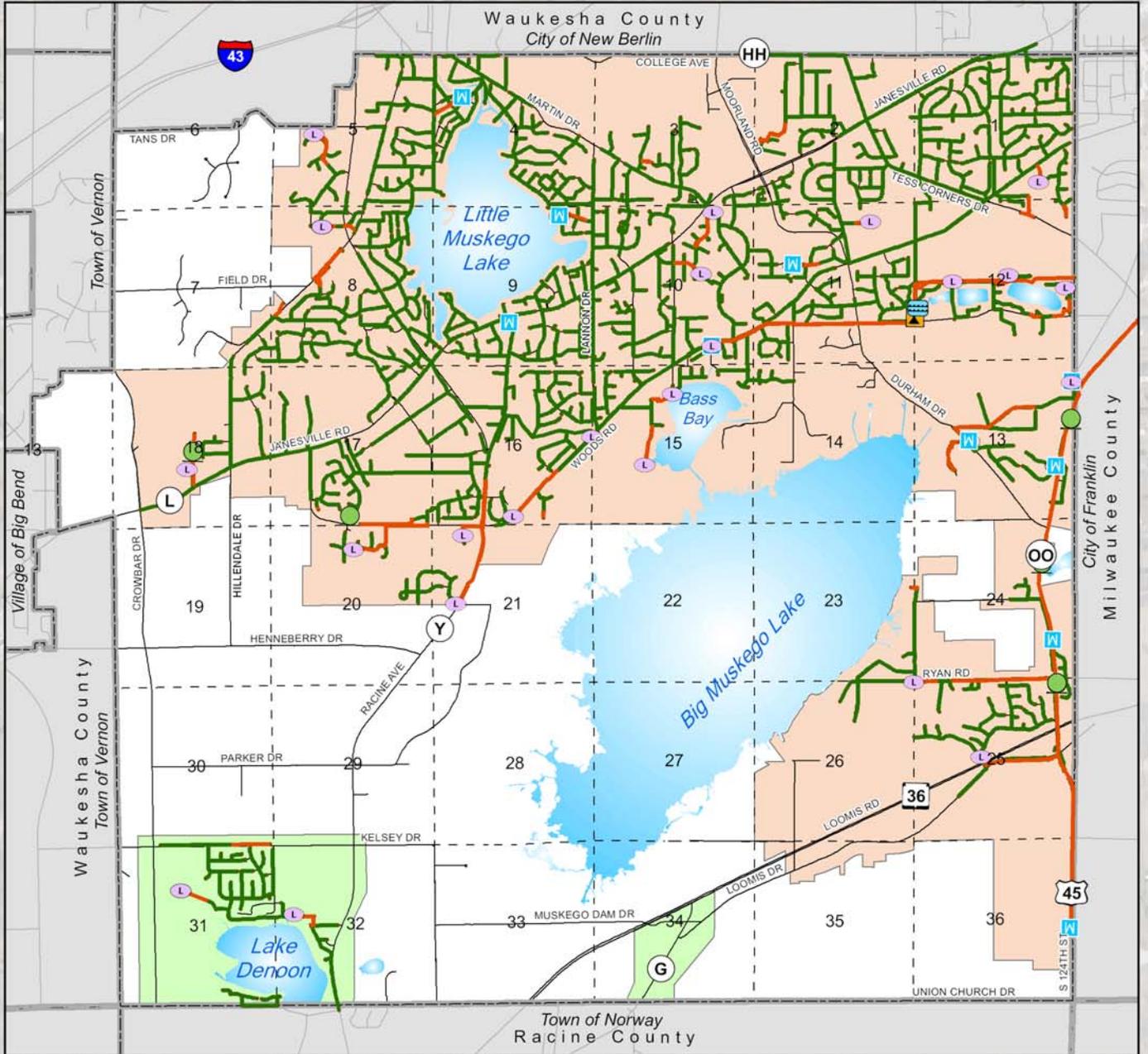
Currently the City is within two sewerage districts: The Milwaukee Metropolitan Sewer District (MMSD) and the Town of Norway Sanitary District (TNSD). Those parcels outside of the sewer district boundaries utilize private sanitary systems regulated by Waukesha County. However, it should be noted that some parcels within a sanitary district boundary may not receive public sanitary service and are on private service due to proximity to public service. MMSD and TNSD are discussed further below.

The Milwaukee Metropolitan Sewer District covers a majority of the Muskego community throughout the north, east, and southeast portions of the City. MMSD is a regional governmental agency providing wastewater treatment and flood management services for 28 municipalities in Southeastern Wisconsin serving over 1.1 million people in a 411 square mile planning area. MMSD has developed a 2020 Facilities Plan (2020 FP), which identifies the facilities, programs, operational improvements, and policies (FPOPs) required by the year 2020 to meet the existing regulatory framework and permitting requirements. The MMSD 2020 FP sets forth ongoing investments and facilities improvements to be made in order to provide a target level of protection (LOP) for sanitary sewer overflows (SSO) and adequate treatment under the projected 2020 population and land use conditions. In addition, the plan calls for measures to be undertaken by municipalities served by MMSD to prevent increases in infiltration and inflow (I/I) through the plan design year. The primary focus of the 2020 FP is to achieve the highest level of water quality improvement in the most cost-effective manner while meeting MMSD's regulatory requirements. The City of Muskego is actively involved in the 2020 MMSD Facilities Plan in order to assure adequate sanitary services are planned for. Map 4.1 displays areas in the City currently served by

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MMSD and the existing MMSD sewer service boundary. The sewer service boundary dictates what areas the MMSD system can serve if adequate infrastructure reaches those points when developed in the future.

Map 4.1



LEGEND

Sanitary Sewer Services Areas

- Muskego
- Norway

Sanitary Sewer

- Force
- Gravity

Sanitary Structures

- Diversion Structure
- Lift Station
- Pump Station
- Storage Tank
- Surge Tank
- Wet Well



0 0.5 1 2 Miles

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The Town of Norway Sanitary District in Muskego is limited to parcels surrounding Lake Denoon in the southwest portion of Muskego. The City has an agreement setup with the TNSD of what areas in Muskego may receive sanitary service. No future facilities plan regarding Muskego exists for the TNSD. A recommendation of this element is that the City researches the future of this sanitary district to ensure that Muskego receives the best benefit possible. The district surrounds Lake Denoon and other important environmental areas making public sewer a benefit to the lands surrounding in order to avoid future contaminations. Map 4.1 shows the current sanitary district boundaries.

Muskego maintains a large network of sanitary facilities, which are constantly maintained and improved as new development and redevelopment occurs. Map 4.1 also displays the basic sanitary system network in place within the City. The City utilizes an annual Capital Improvement Program to ensure that proper maintenance and upgrades to the sanitary system take place. Further, the City works with individuals when new developments are proposed that require new infrastructure. The City makes certain that new infrastructure is properly sized and constructed to fit within the current sanitary facility system. At times, Muskego requires and finances upgrades to developer driven utility installations in order to guarantee future needs are met within the City network.

Future Sanitary Sewer System Needs

In order to plan for proper sanitary facilities, Muskego contracted the service of Ruckert and Mielke in 2007 to complete a *Sanitary Sewerage Facilities Plan* that provides the City with a sanitary sewerage system plan that will adequately serve the planned land use pattern of Muskego under full “build-out” land use condition scenarios. The Plan will aid the community in appropriately scheduling upgrades to current sanitary facilities while also aiding in constructing the appropriate facilities for new developments as the City expands the sewer system into the more rural areas. The plan provides inventory; analysis and forecasting; plan design; plan testing and evaluation; and plan selection and implementation. The main sanitary facility recommendations that were found to support the future land uses within the City are as follows:

- Install gravity main relays for the future Mill Valley development around Racine Avenue and Tans Drive with the eventual installation of a new lift station (Only If development requires by or around 2020 AND if the City Council allows).
- Develop a second connection to MMSD and upgrades to the Woods Road/Sandy Beach lift station (If development requires around 2020 or beyond).
- Establish sewer service to the south and southwest part of the city. This would include a series of lift stations and a possible upgrade to the Loomis Rd lift station (When development requires need).

Water Supply and Service

Muskego is lucky to have a vast water resource. While surrounding communities struggle to find a reliable source of good water for now and into the future, the City of Muskego is fortunate to be located over what is known as the Troy Bedrock Valley. This Troy Bedrock Valley was gouged through the bedrock by glaciers. The glaciers melted and deposited the sand and gravel that now provide a reliable supply of good quality water that is easily accessed. Muskego utilizes groundwater for its public and private water supplies and the water utility has wells scattered throughout the community. The utility continues to identify identified and secure new well locations as land develops around the community. This water source will be able to meet Muskego’s water needs far into the future for residents and businesses alike.

In order to plan for proper water facilities, Muskego contracted the service of Ruckert and Mielke in 2007 to complete a *Report on Water Supply Facilities*. The report purpose is to evaluate the current supply and storage facilities of the City Water Utility and to provide direction regarding future facilities required to

maintain a safe and dependable supply of water for the City customers. Recommendations are made in the plan, and found herein, as to what facility upgrades will be needed to handle the projected 2020, 2035, and ultimate build-out Muskego water demands.

Existing Water System

The existing water system consists of ten well pumping stations, two elevated tanks, one booster pumping station, and over 62 miles of water main. There are also two partially completed wells (Wells No. 9 and No. 13) awaiting decisions on pumping station design prior to completion. Map 4.2 shows the current water facilities and descriptions as of 2007.

Future Water System Needs

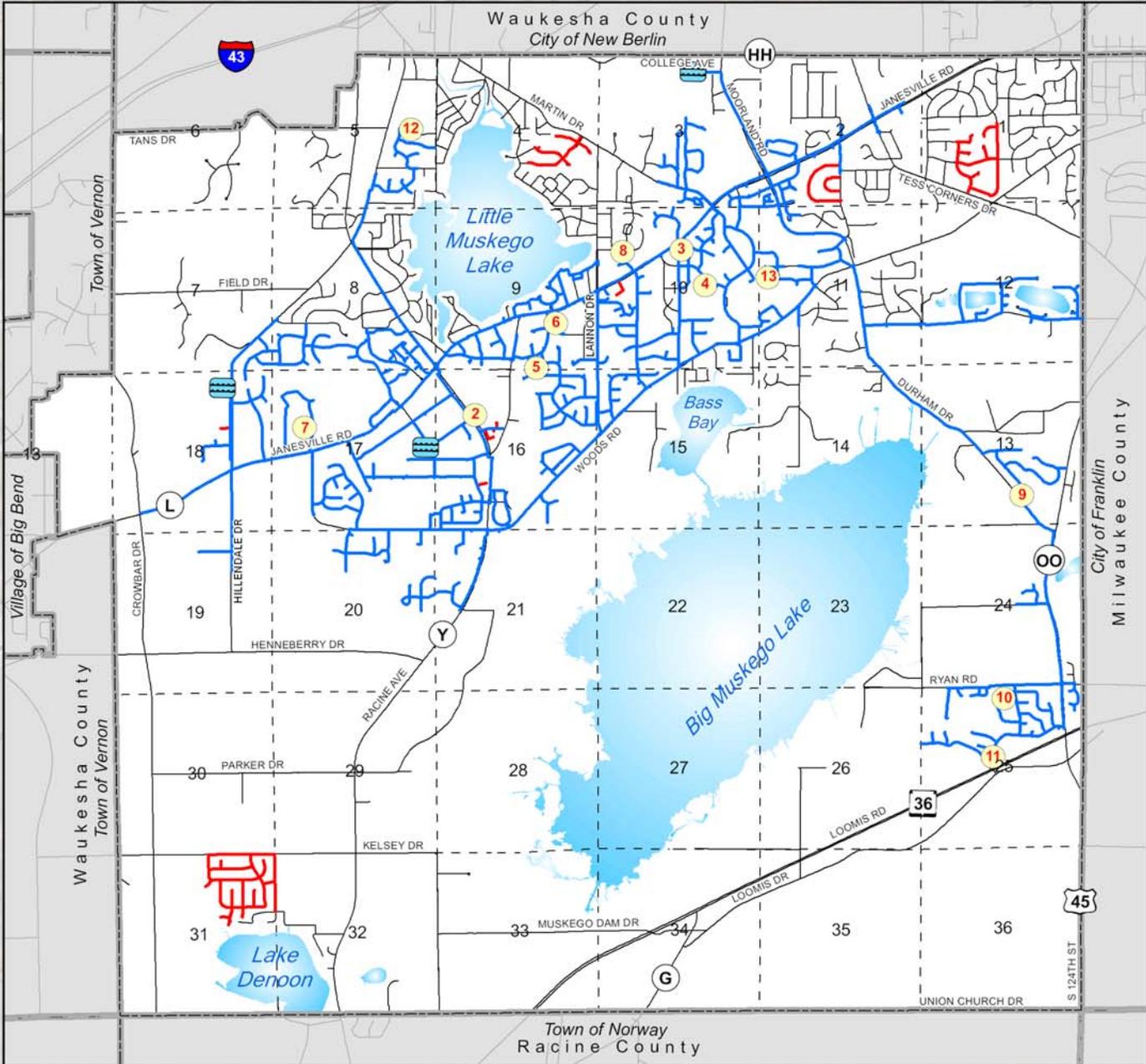
Water supply requirements are generally determined based on projections of future population and land use. By defining the way a community is expected to grow or change, water consumption characteristics can then be applied to the changes and new water use patterns and facility adequacy can then be determined. The future water supply needs in Ruckert and Mielke's *Report on Water Supply Facilities* are based upon a compilation of previous water use patterns and trends for the City based on historic consumption data gathered from annual Public Service Commission (PSC) reports. Analysis of these trends allows predictions of future water use per capita, per customer and per acre developed. These are then applied to the proposed population and land use patterns to develop water demand projections. Supply and storage requirements are assessed for the current makeup of the water distribution system under existing demands and also under the projected years 2020, 2035, and ultimate water demands. The current and future water demands of the system are outlined based on land use development projections. These demands are then used to evaluate the adequacy of the existing water supply facilities and aid in the recommendations for future facilities. Map 4.3 displays the future water supply needs of the community based upon the results of the report. The main water supply facility recommendations that were found to support the future land uses within the City are as follows:

- Develop Well No. 13 within the Quietwood East Subdivision (2008).
- Build an elevated water storage facility along the Moorland corridor around the Muskego/New Berlin border (2008/2009)
- Abandon wells 5 and 12 due to water quality problems (by 2012).
- Develop Well No. 9 along Durham Road south of the Big Muskego Estates Subdivision (by 2012).
- Develop new booster station to serve Racine Avenue/Hillendale Drive and Mill Valley areas (If development requires by or around 2020 AND if the City Council allows).
- Build an elevated water storage facility in the Mill Valley Elementary School area along Racine Avenue and Tans Drive.
- Develop a future well (#14) east of Durham Drive and south of McShane Drive around Bluhm Park (If development requires by or around 2020).
- Develop ground level or buried storage in southeast part of City ((If development requires by or around 2020).
- Continue to identify possible well sites on new developments and bank these sites for future use. Particularly in the southwest and northwest areas of the City (Ongoing).
- Develop water main extensions to enhance system (Ongoing).

Overall, many recommendations resulted from the *Report on Water Supply Facilities*. Each are used in deriving the recommendations found in the Land Use element of this Comprehensive Plan.

Water Facilities

Map 4.2



LEGEND

-  Public Water Mains
-  Private Water Mains
-  Well
-  Water Tower



0 0.5 1 2 Miles

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Water Disaster Scenario

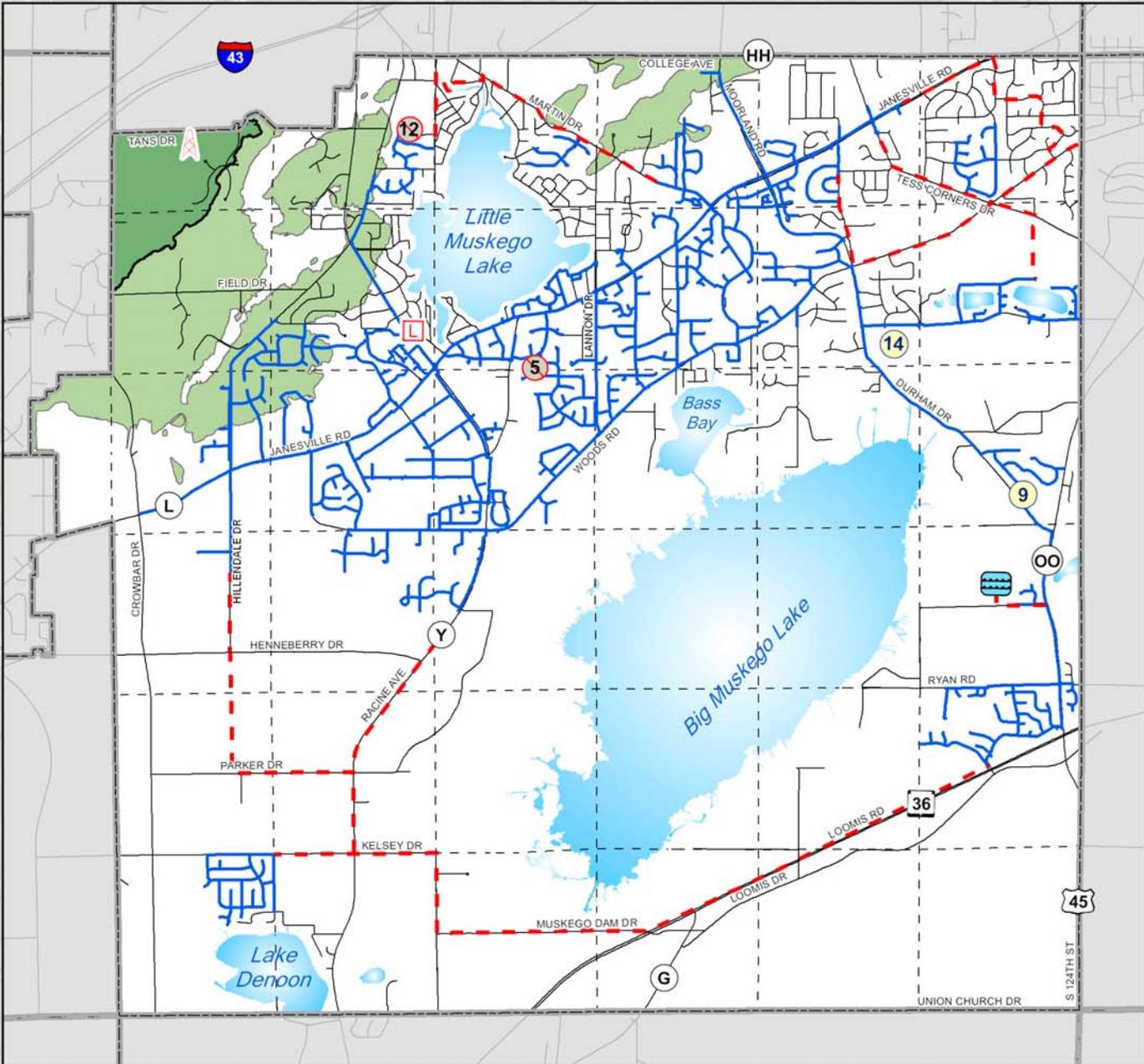
In the event the City of Muskego vast water resources were to diminish or become contaminated in the future, the community does have alternatives. Being a community adjacent and containing the watershed tributary to Lake Michigan, Muskego can petition the State of Wisconsin to tap into this freshwater resource. The Great Lakes Water Pact from 2008 allows this as a possibility. Muskego doesn't intend to need to go to this next step, but it is reassuring that possibilities do exist.

Wellhead Protection Ordinance

Since the residents of the City of Muskego depend exclusively on groundwater for a safe drinking water supply, it is recognized that certain land use practices and activities can seriously threaten or degrade groundwater quality. Thus, a wellhead protection zoning ordinance is adopted in the City to protect the City of Muskego's municipal water supply and well fields.

The regulations specified by the zoning district apply to all lands that lie within the five year Time of Travel (TOT) of each City of Muskego municipal well or 1,200 feet minimum, within the City of Muskego corporate limits, and have a well head protection area delineated in a Well Head Protection Plan accepted by the City. The zoning district specifically allows and prohibits various land uses within the protection area. Some of the prohibited uses are as follows: Animal waste storage facilities; Asphalt products manufacturing; Bulk fertilizer and pesticide storage facilities; Bus or truck terminals; Dry cleaning facilities; Electroplating; Exterminating shops; Garage and vehicular towing, Gas stations; Hazardous and toxic materials storage and use; Hazardous and toxic waste facilities; Junk yards or auto salvage yards; Landfills or waste disposal facilities; Non municipal spray wastewater facilities; Non municipal wastewater treatment facilities; Paint and coating; Public and municipal maintenance garages; Radioactive waste facilities; Salt Storage; Seepage and/or sludge spreading; Tire and battery services; Underground storage tanks; Vehicle repair establishments; including auto body repair; Waste Transfer Stations.

Map 4.3



LEGEND

- Existing Water Mains
- Future Transmission Main Routes
- Future Proposed Well Site
- Future Abandoned Well
- Future Potential Storage Site
- Future Booster Station
- Future Tower
- Boosted Areas**
- 864' Contour
- 964' Contour

0 0.5 1 2 Miles

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Watersheds

Muskego is located along a sub-continental divide and is broken up into two distinct watersheds, the Illinois Fox watershed (west of the divide) and the Root River watershed (east of the divide). Map 4.4 shows where the divide and the watersheds are in relation to the City boundaries and lakes. Waters to the east of the divide flow towards Lake Michigan and the Atlantic Ocean Basin. Lands to the west of the divide flow towards the Gulf of Mexico. The City's four major lakes drain through the Illinois Fox watershed into the Gulf of Mexico via the Fox River, Illinois River, and Mississippi River. Tess Corners Creek is in the Root River watershed that drains into the Atlantic via the Great Lakes.

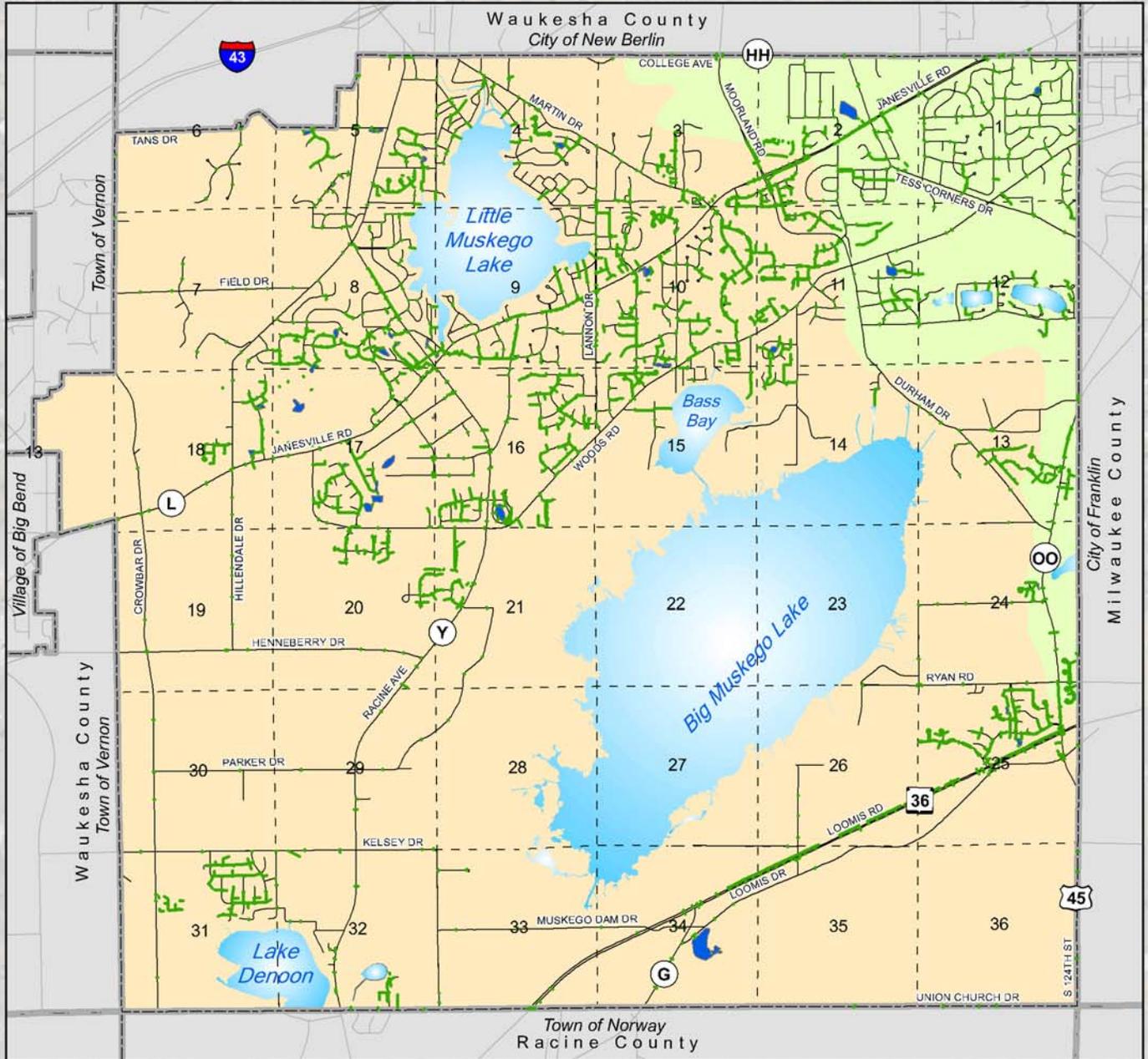
Stormwater Drainage

Stormwater drainage is critical in Muskego due to the many environmental features that can be affected by uncontrolled runoff. Storm sewers serve older parts of the City while newer parts of the City rely more on natural and manmade drainage ways. Map 4.4 depicts the City's current manmade stormwater facilities in place. The map also displays where stormwater facilities may displace stormwater per the watersheds in the community.

Stormwater detention and retention facilities are more common in newer developments, as a majority of these developments require retention facilities that meet the City's Chapter 34 Stormwater Management Ordinance. The purpose of the Chapter 34 ordinance is to set forth storm water requirements and criteria which will prevent and control water pollution, diminish the threats to public health, safety, welfare, and aquatic life due to runoff of storm water from development or redevelopment.

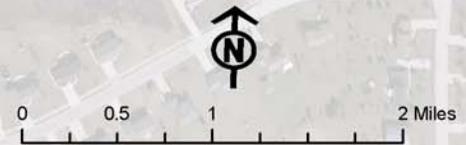
Stormwater Facilities

Map 4.4



LEGEND

-  Stormwater Mains
-  Stormwater Ponds
-  Middle Fox River - Illinois Watershed
-  Root River Watershed



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It is the general intent of the City of Muskego that the Chapter 34 Stormwater ordinance achieve its purpose through:

- Regulating long-term, post-construction storm water discharges from land development activities
- Controlling the quantity, peak flow rates, and quality of storm water discharges from land development activities
- Providing services to maintain and enhance the quality of life within the community. To this end the City of Muskego will manage storm water to protect, maintain and enhance the natural environment; diversity of fish and wildlife; human life; property; and recreational use of waterways within the City of Muskego.
- This chapter implements the Milwaukee Metropolitan Sewerage District Chapter 13 rules on release rates for development creating more than a minimum amount of new impervious surface, as amended from time to time, to reduce the probability of increased regional floods as the metropolitan area approaches full build out forecast for 2050.

A recommendation of this chapter is to continue to require that stormwater management must be constructed for developments and land divisions per the City's Chapter 34 Stormwater Management Ordinance.

Solid Waste Disposal and Recycling Facilities

Veolia Environmental Services provides residential garbage and recycling services. Residential garbage is collected weekly, and recyclables, bi-weekly. Private haulers provide commercial waste services.

Community Facilities (See Map 4.5)

City Hall

The City Hall Complex, last renovated in the fall of 2001, is located at W182 S8200 Racine Avenue, just south of Janesville Road. All departments within City Government are located in this complex, with the exception of Public Works and Utilities, the Library, Parks Garage, and the Police Department.

The Economic Development Element of this *Plan* elaborates further, but it should be noted that a recommendation of this *Plan* is to always attempt to keep the City facilities together in order to maintain the efficiencies of City government. When future facilities look to renovate/expand/move, a cost benefit analysis should be completed to ensure that the need isn't better suited where the majority of the facilities currently are or if the moving all the facilities may not be a better fit.

City Government

The City of Muskego has a full-time mayoral form of government. The Mayor serves three-year terms as the City's Chief Executive, and oversees the Community's day-to-day operations. The Mayor is responsible for ensuring that all City ordinances and State laws are executed consistently and fairly. The Mayor presides at meetings of the Common Council and ratifies all Council actions.

The Common Council consists of seven (7) elected officials from seven (7) aldermanic districts. The Alderman serve two-year terms and are elected on a separate cycle to ensure adequate leadership (three alderman are up for election one year and four are up for election the next year). The Common Council meets the 2nd and 4th Tuesdays of each month within the Muskego Room at City Hall.

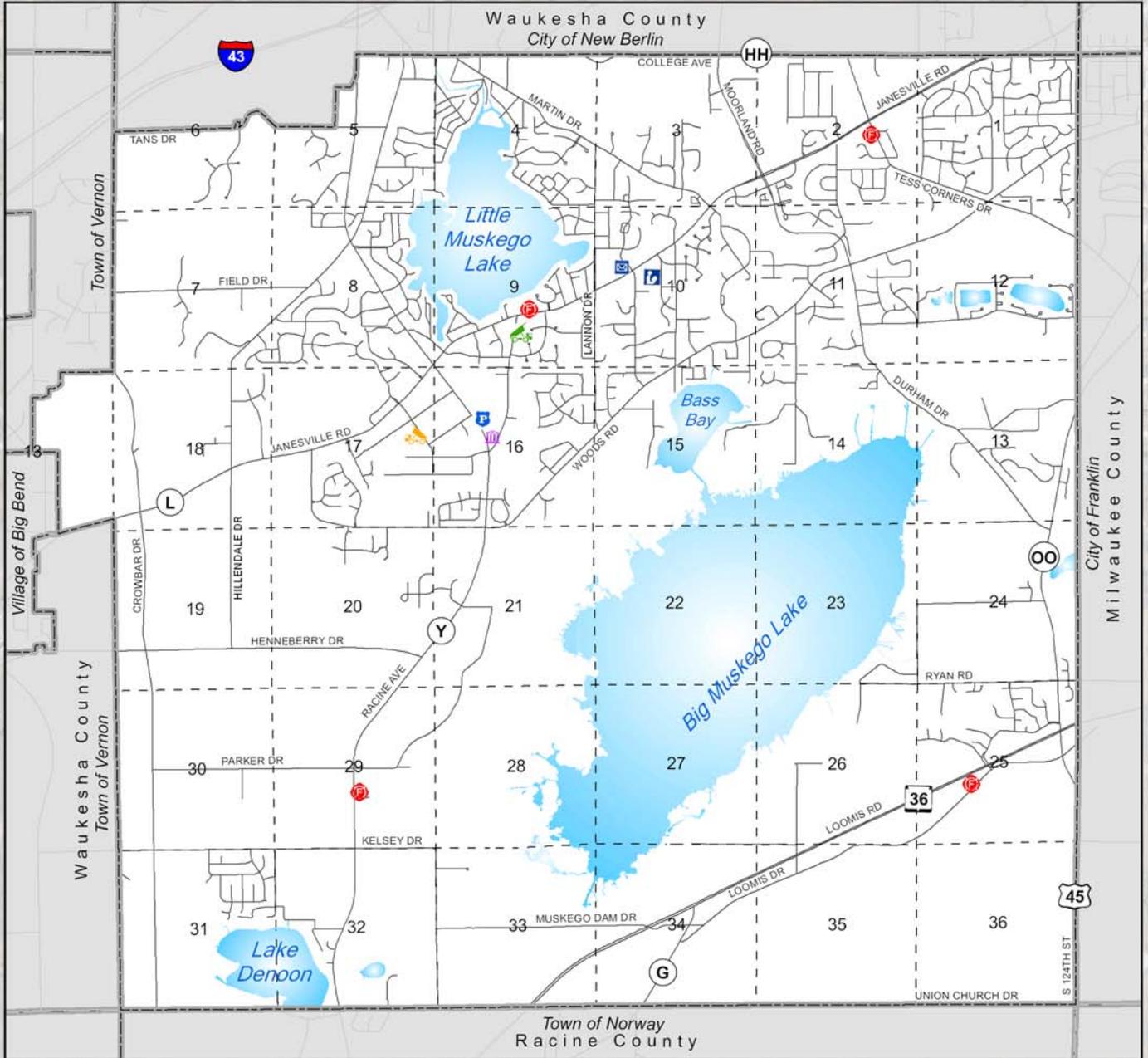
In addition to the Council, the City has the following City Boards, Committees, and Commissions:

- Committee of the Whole
- Planning Commission

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- Police and Fire Commission
- Public Utilities Committee
- Public Works Committee
- Finance Committee
- CDA - Community Development Authority
- Mayor's Task Force on Economic Development
- Park and Recreation Board
- Conservation Commission
- Library Board
- Board of Appeals
- Teen Advisory Board
- Ad Hoc Senior Committee
- Little Muskego Lake Rehabilitation District
- Big Muskego Lake Protection District
- SEPI Landfill Committee

Map 4.5



LEGEND

-  Police Station
-  Fire
-  Library
-  Post Office
-  City Hall
-  Public Works Garage
-  Parks Garage



0 0.5 1 2 Miles

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City Staff and Departments

The City of Muskego employs 128 people on a full-time basis and 11 on a part-time basis in 13 departments. A department head oversees each individual department's operations and a City Administrator oversees operations of all City Hall employees.

The following departments make up the City of Muskego structure:

Administration: The Administration office houses the offices of the Mayor and City Administrator. The guidance and oversight of all other departments within the City is derived through the administration office. The Administration office can be reached at (262) 679-5675.

Assessor: The City Assessor is responsible for discovering, listing, and applying values to all taxable property, both real and personal, in the City of Muskego. The Assessor values property as of January 1 of each year. This value is in accordance with the highest and best use permitted under existing zoning and building codes. The Assessor's office can be reached at (262) 679-4143.

Clerk-Treasurer: The Clerk-Treasurer performs the City Clerk and Treasurer duties according to applicable ordinances and statutes, supervises related clerical and administrative support staff, administers Common Council policies, and provides administrative guidance and support to the Common Council and department heads. The Clerk-Treasurer office attends, records, and transcribes minutes of Common Council, Committee of the Whole, Big Muskego Lake/Bass Bay Protection and Rehabilitation District, and Board of Review Meetings; prepares Council resolutions and ordinances; conducts all elections and voter registration; issues all licenses; collects all taxes, assessments and other fees; prepares for the tax levy, tax rate, statement of assessments and statement of taxes. The Clerk-Treasurer also maintains selected City records, processes contracts, leases and agreements, claims and lawsuits, administers oaths, and serves as a liaison between the public and the governing body. The Clerk-Treasurer can be reached at (262) 679-4100.

Community Development Department Building Inspection: The Community Development promotes and maintains the careful and sustainable development & use of land in the City of Muskego. To accomplish this, the Department is involved in both short and long-range planning. This effort includes reviewing and documenting development, engineering & capital infrastructure planning, economic development, land/geographic information systems, inspections, zoning/code enforcement & compliance, conservation and natural resources, and disseminating this information to the public. The Community Development Department is comprised of the service areas below and all areas can be reached at (262) 679-4136 or (262) 679-4145:

- The *Planning Services Division* is responsible for all land-use planning functions of the City. The Division's purpose is to facilitate the most appropriate use of land within the City.
- The *Building/Inspection Services Division* oversees the City's built environment, ensuring that each structure in the city is built and maintained according to State safety standards. Find links herein to the information you need to know when building a new structure.
- The *Engineering Services Division* duties fall under the following categories: Development Review, Construction & Field Services, Utilities, Streets & Transportation, and Storm Water Management. Engineering staff works on reviewing plans for new and existing developments.
- The Conservation Services Division employs the City Conservation Coordinator in order to oversee the City of Muskego's urban forestry, lake management, and conservation efforts.
- Economic Development: Muskego Economic Development promotes Muskego, Wisconsin as a vibrant business location to new businesses and works to provide opportunities to retain current businesses.

Finance Department: The City's Finance Department is responsible for the City's financial administration, including all accounting and payroll functions, sewer and water utility billings and refuse/recycling billings. The Department compiles the City's operating and capital budgets, and prepares the City's financial reports. The Finance Department can be reached at (262) 679-5646

Parks and Recreation: The Parks and Recreation Department is responsible for maintaining the City's parkland and open spaces. In addition, the department maintains all City recreation equipment, designs recreation programs, and coordinates all recreational activities. Activities are offered for all ages, lifestyles, and tastes. The Recreation Department is located in City Hall, and can be reached at (262) 679-4108. Program information is available from the 24-hour recording line, (262) 679-5645. The Parks' garage is located at W180 S7732 Pioneer Drive.

Future expansion of the City parks garage along Pioneer Drive has been identified by the department to take place sometime during the planning period of this *Plan*. The department anticipates adding onto the garage structure towards Pioneer Drive with additional garage and office space. Having the full parks staff offices at this location is a possibility. A study for this need is recommended by this Plan as City growth dictates or before the year 2013.

Police Department: The Police Department is responsible for the protection of lives and property in the City. The Police Department has over 35 sworn officers and 11 civilian personnel. The Police Department participates in numerous crime prevention and community outreach programs yearly. Officers undergo regular training and supplementary courses. The Police Department is located across from City Hall and can be reached at 911 (Emergency only) or (262) 679-4130 for non-emergencies.

Public Utilities Department: The Public Utilities Department is responsible for the operation and maintenance of the City's sewer and water utilities. The Public Utilities Department is located at the City Garage, W189 S8235 Mercury Drive, Muskego WI 53150. The phone number is (262) 679-4128.

Public Works Department: The Public Works Department is responsible for the maintenance of City streets and bridges, which includes snow removal and ice control, storm sewers, and City right of ways. The Public Works Department is located in the City Garage, W189 S8235 Mercury Drive, Muskego WI 53150. The phone number is (262) 679-4128.

Future cold storage needs are identified by the department for 2009 - 2013. The department anticipates building the cold storage, on the current occupied land or on an adjacent parcel, in conjunction with the Police Department, which has similar needs.

Library Services: The Muskego Public Library, located at S73 W16663 Janesville Road, was built in 2000. It is a member of the Waukesha County Federated Library System. The collection includes over 91,000 books, magazines, newspapers, pamphlets, books on cassette, videotapes, and other audio-visual media. They also feature eBook readers, downloadable books, and 30 public-access computers. Both telephone and in-person reference services are offered, as well as interlibrary loan and access to WISCAT, the statewide database. Membership in the Waukesha County Federated Library System gives Muskego Library patrons access to 16 public libraries in Waukesha County. Course schedules, tax forms, and a photocopy machine are also available. Children's services include school story hour and summer programming. The Muskego Public Library is open Monday- Thursday 9 am – 9 pm, and Friday-Saturday 9 am - 5 pm. The Library can be reached at (262) 971-2100.

Post Office

The City of Muskego Post office is located at S74w17000 Janesville Rd operating Monday thru Saturday. The current office is within a small strip mall within Muskego's downtown. The post office recently signed a long-term lease and looks to stay in the current location due to the central proximity in the City.

Fire Protection and Emergency Services

Fire service in Muskego is delivered by one volunteer fire company that also provides emergency service functions for the entire jurisdiction. Overall, Muskego has an authorized strength of approximately 120+ personnel. Stations are located at W1835 S8150 Racine Avenue, S76 W17850 Janesville Road, W144 S6731 Tess Corners Drive, and S100 W13444 Loomis Drive (See Map 4.5).

A Fire Study was completed for the City by TriData in April 2007. The study incorporated response time studies for fire and emergency medical services (See Figures 4.1 and 4.2). Overall, the fire and emergency service responses for the City were found to be in good order.

Tornado Warning Siren System

The City of Muskego has a citywide weather siren warning system. The eleven sirens are located at strategic sites throughout the City to alert citizens of a tornado warning. The sirens were located to ensure adequate coverage. Each siren site was selected in consideration for the overall coverage of the City, the population, the resident sound decibel safety level, installation access, service access, site power, topography, and sound coverage obstructions. Each siren is mounted on a 45-foot high wooden pole and connected to electrical service, either overhead or underground, as the site permits. The system is activated by the Police Department dispatch center. Map 4.6 shows the locations of the sirens in the City.

Figure 4.1

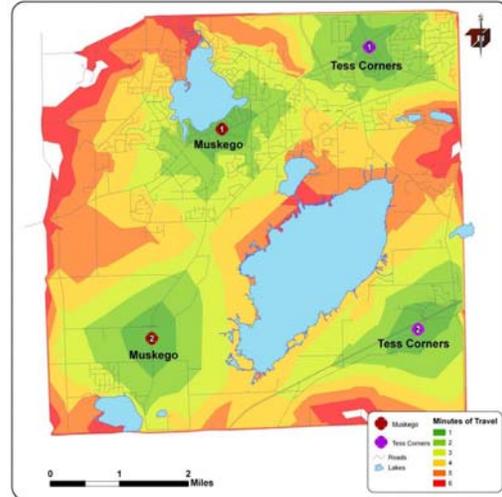
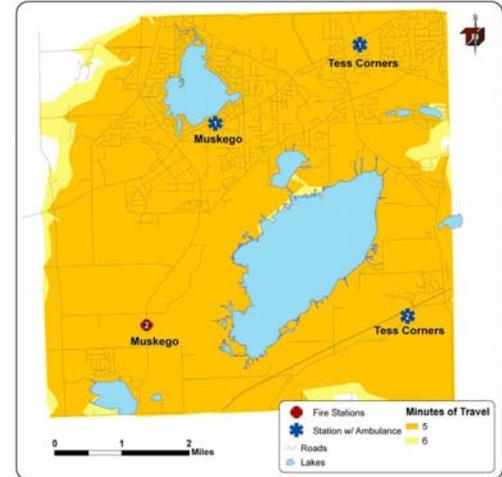
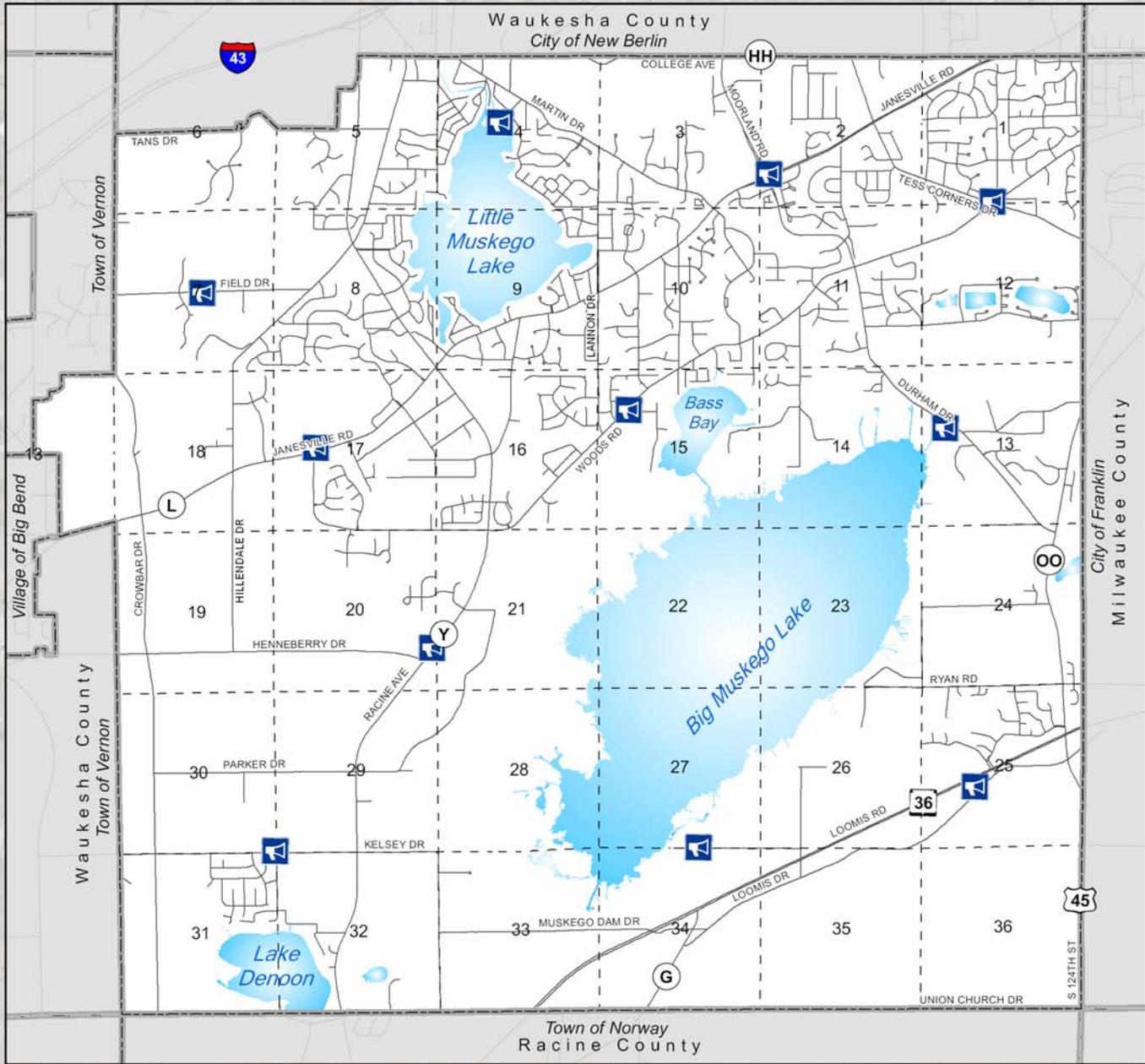


Figure 4.2



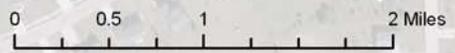
Weather Emergency Sirens

Map 4.6



LEGEND

 Weather Emergency Siren



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Law Enforcement

The Muskego Police Department is located across from City Hall at W183 S8150 Racine Avenue. The Department is comprised of over 35 sworn law enforcement officers, which include: One (1) Chief of Police, two (2) Captains, (5) Lieutenants, three (3) Patrol Sergeants, one (1) Detective, one (1) Community Resource Officer, three (3) School Liaison Officers, and twenty-four (24) Patrol Officers. Aside from the sworn staff, the Muskego Police Department employs eleven (11) non-sworn support staff, including the Administrative Assistant and telecommunicators/clerical/court personnel. The Department staffs each duty shift with a minimum staffing requirement of four uniformed officers to serve the thirty-six (36) square mile City.

Muskego Police are actively involved in the community providing many different programs including the following:

Community Resource Officer: The Community Resource Officer provides community outreach, crime prevention and safety programs that are offered to the community including: Neighborhood Watch, Business Watch, Crime and Community Information, Home & Business Security Surveys, Child Identification Program, Stranger Awareness, Bicycle Safety and Registration, Crime Stoppers Liaison, and Community Group Liaison.

Neighborhood Watch Program: The Program is designed to educate and coordinate the citizens in crime deterrence and detection. In a Neighborhood Watch Program, persons are shown: 1. Proper security measures and devices, and 2. How to be effective reporters of suspicious persons, vehicles, and activities. Recognizing suspicious activity is the key to crime prevention. Neighborhood Watch is simply neighbors looking out for each other.

Drug Abuse Resistance Education: D.A.R.E. is a collaborative effort by D.A.R.E. certified law enforcement officers, educators, students, parents, and the community. This educational program takes place in the classroom and is designed to prevent or reduce drug abuse, violence, and gang involvement among youth.

Law Enforcement Explorer: In the spring of 2003, the Muskego Police Department decided to sponsor a Law Enforcement Explorer Post. Exploring is a subsidiary program of the Boy Scouts of America. It is open to young men and women ages 14 to 20 who have an interest in particular fields such as law enforcement. The intent of law enforcement exploring is to educate and involve youth in police operations, to interest them in law enforcement functions whether they enter police work or not. Through involvement, the explorer program establishes an awareness of the complexities of police service.

Citizen's Academy: The Citizen's Academy is a special outreach program for Muskego residents and workers. The course will provide an in-depth look at Police Department operations in keeping with a commitment to Community Policing. Topics covered include criminal investigation, the patrol function and techniques, traffic crash investigations, records and communications, arrest, search and seizure and many others. Instruction consists of lectures, demonstrations, tours and active student participation. The course closely follows the actual training police officers undergo.

The Muskego Police Department is currently very limited in space and the future growth of the City appears to warrant an expansion or rebuild of the Police facilities before the planning period of this *Plan* (Year 2020). More than likely, the current land constraints will not allow an expansion of the current facility, but a full rebuild would be required. A recommendation is set forth that the Police facility needs be monitored annually and that a feasibility study be completed to determine the best needs and location for a future facility. As stated earlier in this chapter, a recommendation of this *Plan* is to always attempt to keep the City facilities together in order to maintain the efficiencies of City government. When

future facilities look to renovate/expand/move, a cost benefit analysis should be completed to ensure that the need isn't better suited where the majority of the facilities currently are or if the moving all the facilities may not be a better fit.

Emergency Management

The City of Muskego has an adopted Emergency Management ordinance in affect (Chapter 6) along with a supporting Municipal Emergency Operations Plan (MEOP). The ordinance and MEOP were approved in 1999 in order to provide procedures to respond to various types of emergencies or disasters that affect the community. The MEOP sets up an organization team to assess the disaster, organize, and then implement a response to the disaster. The current MEOP is out of date in regards to the roles, responsibilities and contacts of the Municipal Emergency Management Team (MEMT). A recommendation of this Plan is to have the Emergency Management ordinance and the MEOP revised immediately. Further, that the MEMT meet yearly to: 1. Discuss any changes required to the MEOP; and, 2. Re-educate and discuss the roles of each member of the MEMT.

School System

The City of Muskego boasts a well-educated population with most residents having at least a high school diploma (92.2%). This rate is higher than the Milwaukee metropolitan area (84.5%), the State of Wisconsin (78.6%), and the nation (75.2%). Those with Bachelor's degrees or higher comprise 27% of Muskego's population. According to the 2000 census 4,903 residents aged three years or over are enrolled in school within Muskego. Of that number, 3,622 are enrolled in public schools, and another 1,281 are enrolled in one of the two private schools in the City.

The value of the public school system in Muskego considered one of the main attractions to residents in the City. Muskego is within the Muskego-Norway Public School District, which contains all of Muskego and extends into portions of the City of New Berlin and the Town of Norway (See Map 4.7 and 7.4). The district consists of five elementary schools, two middle schools, and one high school as listed herein:

- Mill Valley Elementary School – W191 S8445 Hillendale Drive
- Muskego Elementary School – S75 W17476 Janesville Road
- Tess Corners Elementary School – W147 S6800 Durham Drive
- Country Meadows Elementary School - S75 W16399 Hilltop Drive
- Lakeview Elementary School – 26335 Fries Lane, Town of Norway
- Bay Lane Middle School - S75 W16399 Hilltop Drive
- Lake Denoon Middle School – W216 S10586 Crowbar Drive
- Muskego High School – W183 S8750 Racine Avenue

All of the schools within the district are located in the City of Muskego with the exception Lakeview Elementary School, which is in the Town of Norway. The district administrative offices are located along Woods Road next to the high school.

Year 2007-2008 enrollment in the District was 4,852 students, an increase of 1 student in the past year. District enrollment has remained fairly constant over the past three years.

The Muskego-Norway School Board is actively planning for population growth and expansion within the district while always monitoring the current growth trends of students in the area. During the course of 2008, the Board setup a School Facilities Team to serve in an advisory capacity with the following tasks:

- Analyze findings of an Architectural Report that focused on the district's five elementary schools and Bay Lane Middle School

Chapter 4: Utilities & Community Facilities

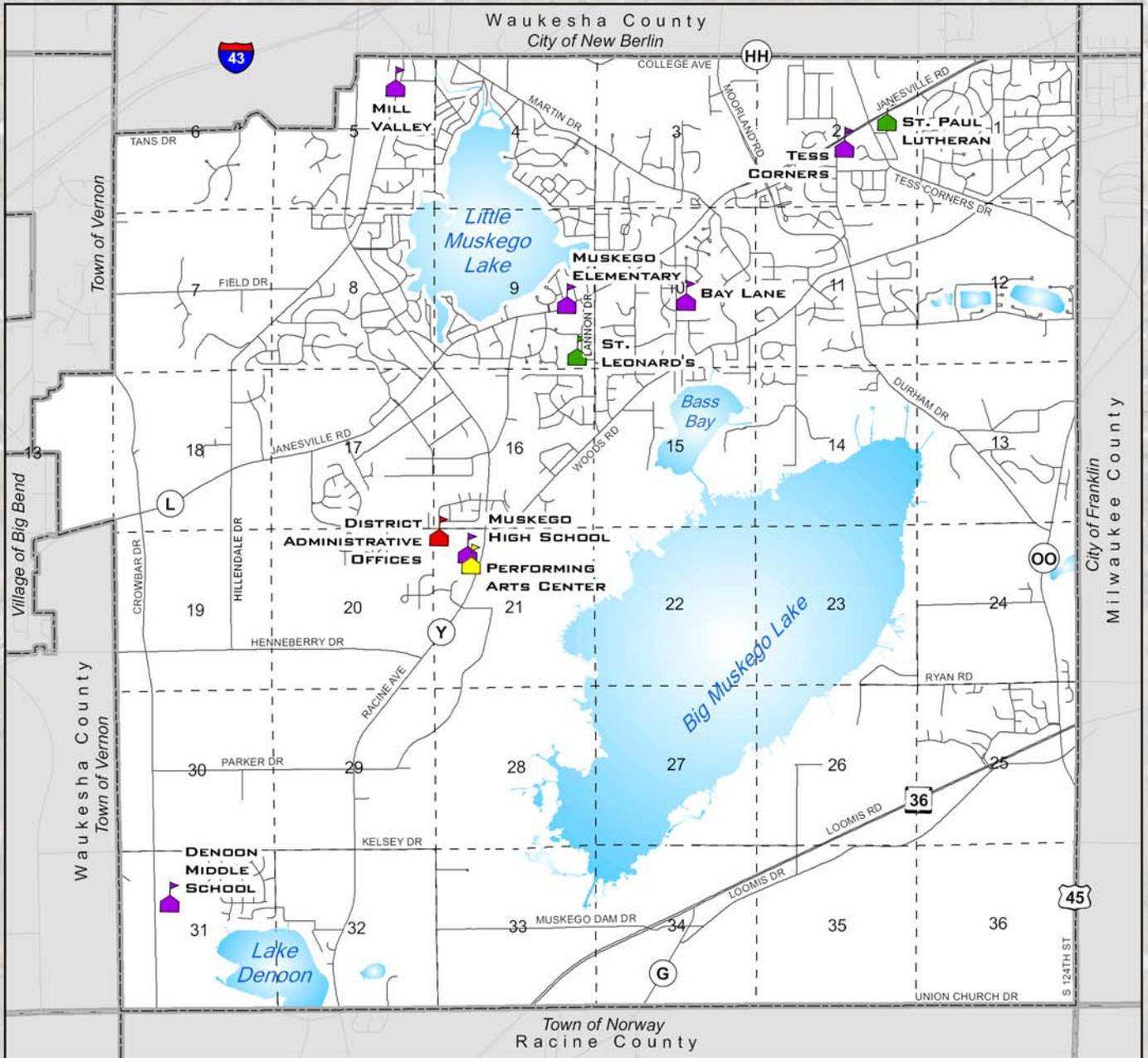
- Analyze growth projected for the community
- Examine the financial context for the system that impacts both short-term and long-term planning
- Analyze stakeholder feedback on programmatic and facility needs
- Review district strategic plan, national/regional standards, current research and best practice, and innovative models from other districts and communities for facilities implications
- Prepare findings and recommendations for the MNSD Board

The Facilities Study Team made the following recommendations:

- Refrain from making major improvements to Muskego Elementary and Tess Corners facilities at their current locations due to significant site constraints, the physical limitations of the buildings, potential changes in city zoning, and the widening of Janesville Road.
- “Right-size” district facilities in capacity and number through new and renovated construction. This effort, done well, would optimize both learning and stewardship of community resources by improving adequate buildings, replacing inadequate buildings on existing district sites, or combining the two ideas.
- Consider redistricting of elementary attendance zones, at a minimum, to maximize equitable access to district resources if a change in the number or capacity of schools is considered.
- Ensure that elementary schools are built, renovated and/or sited in such a way as to allow for long-term future growth.
- Restore the Bay Lane school site fully to middle school programming, as this is the purpose it was originally designed to serve.
- Discuss the impact on multi-age programming in the district, currently unique to Muskego Elementary, if any facility changes for this school are considered.
- Address the facility issues at each of the six district schools under review and use the tiered findings of the FST as a guide for attending to these by priority.
- Partner with local municipalities as continued planning and analysis occurs.

Within the 2020 planning period, the School Board is assessing current elementary and middle school facility needs taking specific measures to meet those identified current and future needs. The City and the School District will continue to meet in order to plan for growth and facilities needs. School District future needs directly influence the growth and future density recommendations found within the Land Use Element of this *Plan*.

Map 4.7



LEGEND

-  Public School
-  Private Schools
-  Performing Arts Center
-  District Administrative Offices



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Planning Department



Chapter 4: Utilities & Community Facilities

Performing Arts Center

It should be noted that the Muskego High School also includes a Performing Arts Center where many local and national events take place. Plays, concerts, traveling shows, and City meetings all utilize this gorgeous facility.

Child Care Facilities

The City is home to many licensed childcare facilities with many offering services for children age 6 weeks to 10+ years. As of 2007, there were 13 facilities distributed all over Muskego in many of the more densely populated areas. Capacities of the daycares in the City range from 8 to as many as 95 children. The total capacity of all the licensed daycares found in 2007 was approximately 559. Map 4.8 displays the general locations of the daycares within the City.

Health Care Facilities

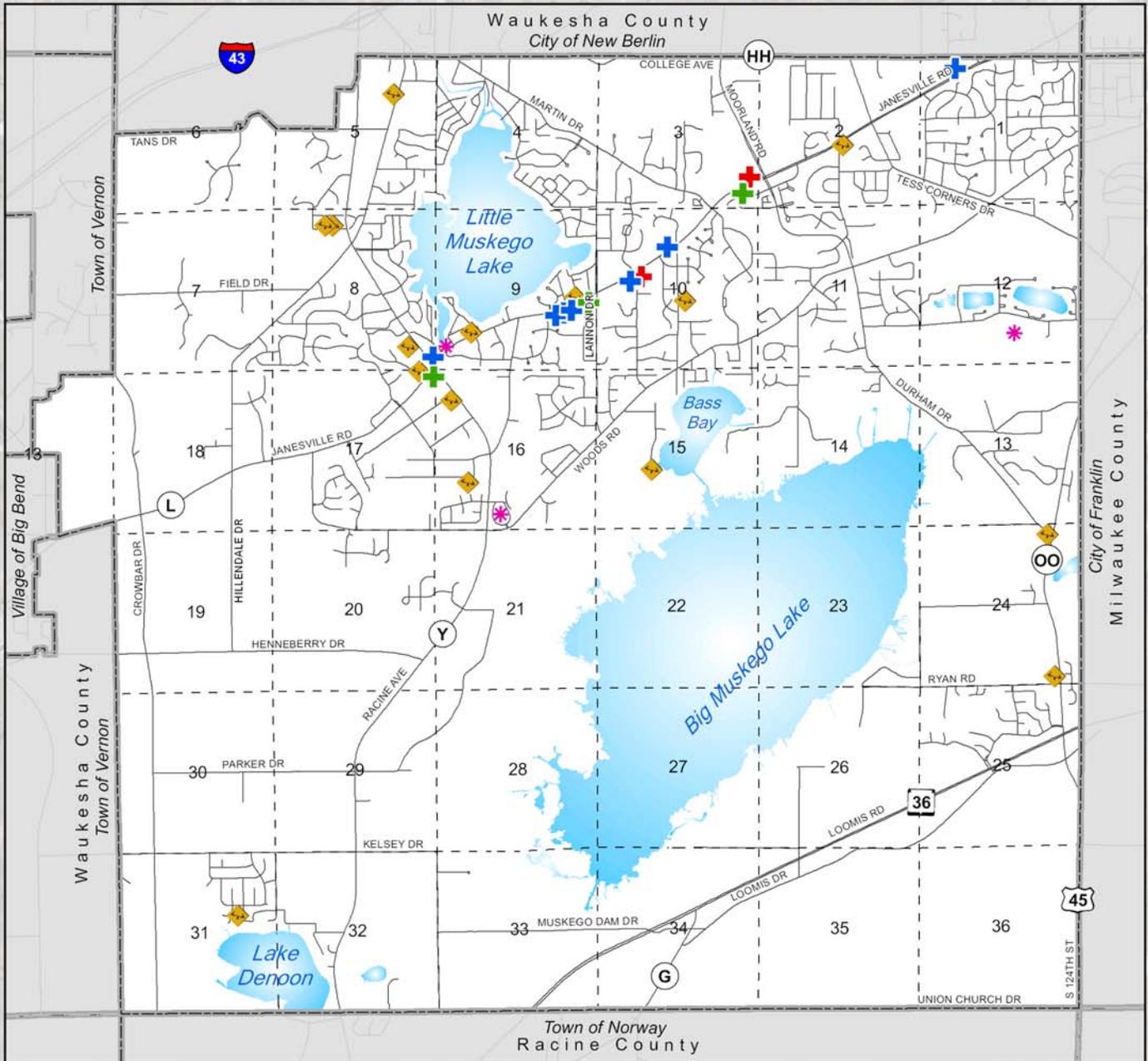
Muskego is home to numerous private practice medical offices offering a variety of services. Over 15 such offices offer chiropractic, dentistry, optometry, orthodontic, pharmaceutical, and physical therapy care (Map 4.8). Further, Muskego is also home to two medical health centers.

ProHealth Care operates a medical center at S69 W15636 Janesville Road and St. Luke's Muskego Health Care Center – Lakeshore Medical Clinic operates at S74 W16775 Janesville Road. Both facilities offer similar services such as the following: Internal Medicine, Pediatric & Adolescent Medicine, Allergy & Immunology, Cardiology, Orthopedic, Podiatry, Ear, Nose & Throat, Hearing Services, General Surgery, Urology, Obstetrics and Gynecology, Behavioral Medicine, Urgent Care.

Assisted Living Care Facilities

Many opportunities for adult care needs exist within the City. Map 4.8 displays where five of these specific care facilities exist. Pro Health Care – Regency Senior Community is located on a 32 acre campus at W181 S8540 Lodge Boulevard offering senior living, supportive living, assisted living, attended care, a guest residence program, and a private lake with walking trails. Tudor Oaks Retirement Community is located at S77 W12929 McShane Drive along 110 acres. Tudor Oaks offers independent apartment homes, supportive services, 24-hour skilled nursing care with attached CBRF, and rehabilitative therapy. Muskego Health Care Center is located at S77 W18690 Janesville Road providing skilled nursing care. Lastly, At Home Living Care LLC is found at S74 W17065 Janesville Road offering at home caregivers, transportation and errand services.

Map 4.8



LEGEND

- Childcare Facilities
- Assisted Living Facilities

Healthcare Facilities

- Clinic
- Pharmacy
- Specialty Healthcare (Chiropractic, Dental, Optometrist)



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Chapter 4: Utilities & Community Facilities

Parks and Recreation Facilities (City and Other)

There are 36 city-owned sites covering 373 acres, including the lake access sites, for park and recreation purposes. The parks range in size from one to 53 acres, and offer a wide range of facilities. Chief among the parks are Bluhm Park (50 acres), Veteran's Park (34 acres), and Denoon Park (53 acres). Numerous smaller parks serve individual neighborhoods, and provide public access to the lakes.

The Parks and Recreation Department also provides numerous structured and unstructured recreation activities to Muskego residents and non-residents. These activities are either provided directly by the department, or provided by private entities through contract. Team sports offered include baseball, basketball, flag football, volleyball, soccer and track and field. Individual activities range from golf and tennis lessons, to swim instruction, to weight training and gymnastics. Special interest activities include arts and crafts, field trips, and civic festivals. For seniors, the Department offers several tours throughout the year, as well as senior nutrition and driving programs, craft and social groups.

City of Muskego Park and Open Space Sites

Table 4.1 summarizes the following data for each site and identifies a site number that corresponds to their locations on Map 4.9.

Big Muskego Lake Access (Durham Drive): This eight-acre site located on the northern shore of Big Muskego Lake in the east-central portion of the City provides the only public-owned access to Big Muskego Lake/Bass Bay. The site provides a launching ramp, and a portable rest room. The site includes wetlands and primary environmental corridor along the lake's shore. There is an associated one-acre site 600 feet to the southwest on Durham Drive that provides additional parking. Collectively, there is off street parking available for 42 vehicles, including 32 car/trailer spaces.

Big Muskego Lake Access (Boxhorn Drive): This 2.2-acre boat access site is leased by the City of Muskego from Boxhorn Gun Club. There are four launching lanes, two docks, a portable restroom, and a lighted parking lot with 25 car/trailer spaces.

Bluhm Farm Park: This 50-acre community park is located in the northeastern portion of the City. Existing facilities include a basketball goal, four softball/baseball diamonds, an area for football/rugby, playground equipment, picnic areas, an open shelter and indoor rest rooms. The playground equipment provided on the site accommodates both the 2-5 and 5-12 year age groups. The site is linked to the City-managed recreation trail along the electrical transmission line right-of-way. A 1.7-acre prairie area was planted during the summer of 2002. Off street parking is available for 80 vehicles. The park contains managed conservation lands including seventeen acres of woodlands, two acres of prairie, and two acres of wetlands.

City Hall: There is approximately eight acres of open space on the grounds of City Hall. This is a passive use area but is also used for parking vehicles during the Muskego Community Festival. The paved lot provides parking for 109 vehicles.

Denoon Park: This 63-acre community park is located in the southwestern portion of the City on the northwestern shore of Lake Denoon. The site has two basketball goals, one baseball/softball diamond, picnicking, playground equipment, soccer fields, snowmobile trails, a walking trail, a shelter, portable rest rooms, and lake launching access. The playground equipment provided on the site accommodates the 2-5 year age group and the 5-12 year age group. Lake Denoon Middle School utilizes the park for outdoor physical education classes. Off street parking is provided for 52 vehicles. A 3.2-acre prairie was planted within the park in 2002. Wetlands and woodlands within the primary environmental corridor associated with Lake Denoon can also be found at this site. Lake Denoon provides habitat for the Black Tern, a rare bird species.

Freedom Square: This 0.9-acre park provides a basketball court and a tennis court.

Horn Field: This 22.5-acre neighborhood park located in the north-central portion of the City provides a regulation baseball field, play equipment, rest rooms, and a preschool classroom. Off street parking is available for 44 vehicles. Playground equipment provided on the site accommodates the 2-5 year age group. The site, which contains some wetlands within an isolated natural resource area, is linked to the recreation trail that follows the electrical transmission line right-of-way. Horn Field is contiguous to the Old Muskego Settlement Centre.

Idle Isle Park: This 6.4-acre community park contains boat launching ramps (Little Muskego Lake Access Site No. 18), a swimming beach, a fishing pier, picnicking, an open air shelter with storage, and indoor rest rooms. Playground equipment provided on the site accommodates both the 2-5 year and 5-12 year age groups. Off street parking is available for 44 vehicles. Overflow parking is available at nearby Park Arthur on Martin Drive accommodating 11 car-trailer units and 15 automobiles. A local water ski club provides a water ski show at Idle Isle one evening weekly during the summer.

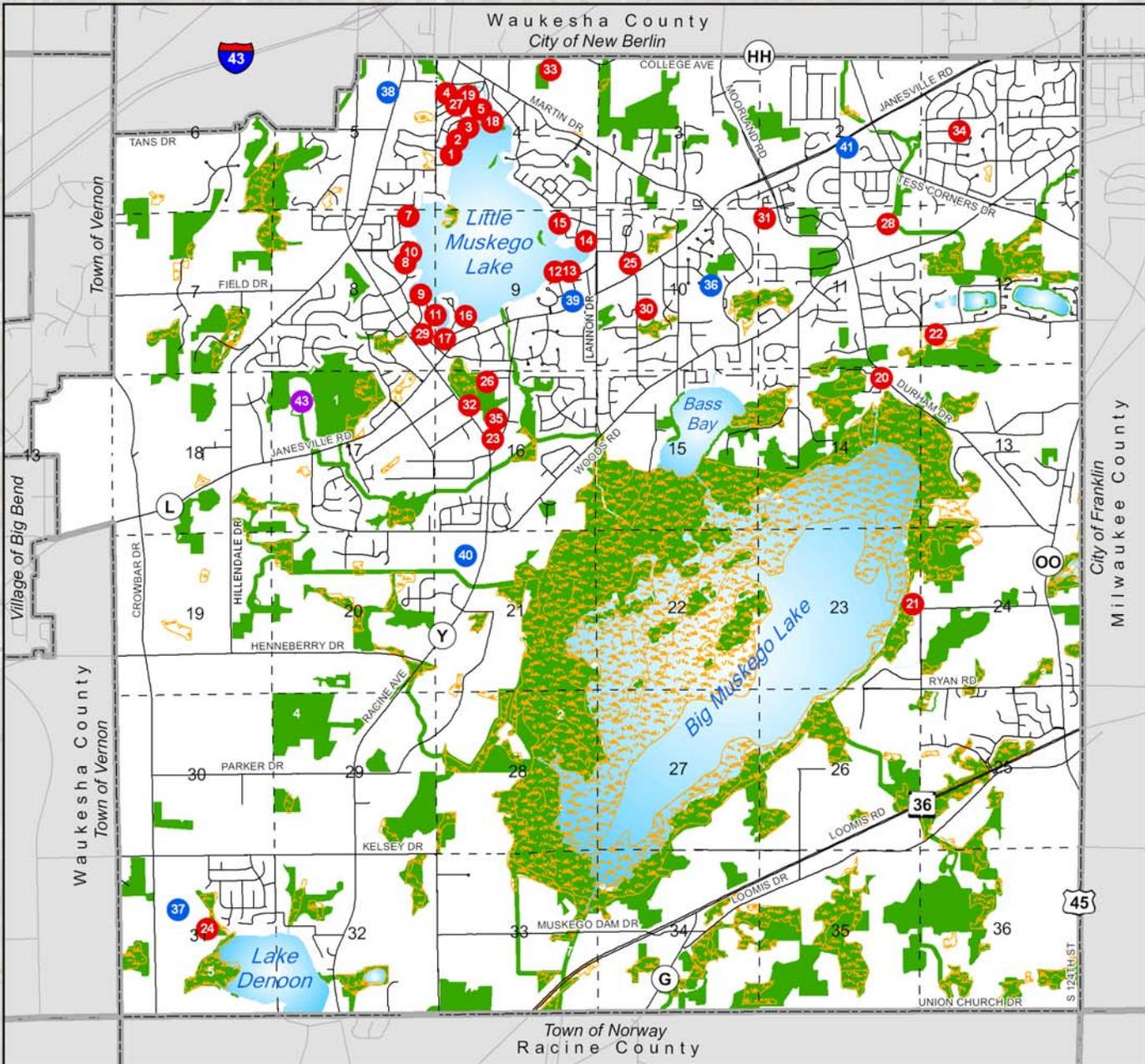
Jensen Park: This 3.7-acre neighborhood park is located north of Little Muskego Lake in the northwestern portion of the City. Existing facilities include a baseball/softball diamond, rest rooms, and classroom space. Off street parking is available for 28 vehicles. Playground equipment provided on the site accommodates both the 2-5 year and 5-12 year age groups.

Kurth Park: This 18-acre neighborhood park is located in the northeastern portion of the City. The park provides a pedestrian trail, play equipment, two tennis courts, one basketball hoop, rest rooms, a baseball/softball diamond, and soccer fields. Playground equipment provided on the site is designed to accommodate the 2-5 year age group and the 5-12 year age groups. Tess Corners Creek and its associated secondary environmental corridor, border the northeastern edge of the park. A prairie area of approximately one acre was planted between the trail and the creek in fall of 2001. Off street parking is available for 96 vehicles.

Lee Hubka Park: This 0.7-acre park was formerly considered an annex of Jensen Park across Silver Drive to its south. Located adjacent to Jewel Creek, a Little Muskego Lake tributary, Lee Hubka Park is the site of Little Muskego Lake Access Site No. 4. The park also provides picnic tables and two basketball courts.

Lions Park: Lions Park is a 3.8-acre neighborhood park located in the north central portion of the City. The park provides two basketball goals, an open play field area and rest rooms. Playground equipment provided on the site accommodates both the 2-5 year and 5-12 year age groups. Off street parking is available for 10 vehicles.

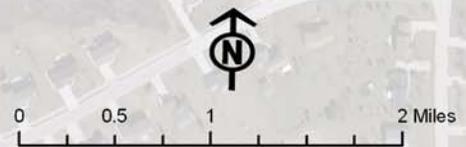
Map 4.9



LEGEND

- # City of Muskego Sites
- # County, State, or Other Public Sites
- # Muskego-Norway School District Sites
- # Environmentally Significant Lands
- Wetlands

Note: Park and Open Space site numbers correspond to (Table 4.1)



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Jensen Park: This 3.7-acre neighborhood park is located north of Little Muskego Lake in the northwestern portion of the City. Existing facilities include a baseball/softball diamond, rest rooms, and classroom space. Off street parking is available for 28 vehicles. Playground equipment provided on the site accommodates both the 2-5 year and 5-12 year age groups.

Kurth Park: This 18-acre neighborhood park is located in the northeastern portion of the City. The park provides a pedestrian trail, play equipment, two tennis courts, one basketball hoop, rest rooms, a baseball/softball diamond, and soccer fields. Playground equipment provided on the site is designed to accommodate the 2-5 year age group and the 5-12 year age groups. Tess Corners Creek and its associated secondary environmental corridor, border the northeastern edge of the park. A prairie area of approximately one acre was planted between the trail and the creek in fall of 2001. Off street parking is available for 96 vehicles.

Lee Hubka Park: This 0.7-acre park was formerly considered an annex of Jensen Park across Silver Drive to its south. Located adjacent to Jewel Creek, a Little Muskego Lake tributary, Lee Hubka Park is the site of Little Muskego Lake Access Site No. 4. The park also provides picnic tables and two basketball courts.

Lions Park: Lions Park is a 3.8-acre neighborhood park located in the north central portion of the City. The park provides two basketball goals, an open play field area and rest rooms. Playground equipment provided on the site accommodates both the 2-5 year and 5-12 year age groups. Off street parking is available for 10 vehicles.

Little Muskego Lake Access Sites: The City of Muskego provides 18 sites with access to Little Muskego Lake that collectively comprise 11 acres. The following lists these and indicates any facilities in addition to the provision of lake access: No. 1, Pearl Drive, providing a dock, No. 2, Emerald Drive, also providing a dock and picnic tables, No. 3, Diamond Drive, No. 4, Hubka Park, providing access to Jewel Creek (Little Muskego Lake tributary), as well as picnic tables and two basketball courts, No. 5, Ruby Drive, No. 7, Hillview Drive, which provides a boat launch, No. 8, Shore Drive, providing a dock, No. 9, Oak Court, which provides a boat launch, No. 10, Lochcrest Boulevard, providing a dock, No. 11, Oak Grove, which provides a dock, No. 12, Park Drive, which provides a dock and picnic tables, No. 13, Michi Drive, which provides a dock, No. 14, Schubring Drive, No. 15, Pleasant View Drive, providing a boat launch, No. 16, Kingston Drive, which provides a dock, No. 17, Lincoln Drive providing snowmobile access, No. 18, Idle Isle Park (described above), and No. 19, Silver Drive, providing access to Jewel Creek (Little Muskego Lake tributary).

Manchester Hill Park: Formerly called Parkland Plaza, and renamed to honor long-standing Parks and Recreation Board member Rich Manchester, this 15.2-acre park is located in the north central part of the City. Facilities include a soccer field, shelter, picnic area, and portable toilets. A pond on the park's south end provides ice-skating during the winter months. Playground equipment provided on the site accommodates both the 2-5 year and 5-12 year age groups. Off street parking is available for 42 vehicles. The park contains a small wooded area, a wetland, and a prairie planting on the pond perimeter.

Moorland Park: This 37-acre park in the center of the City has a skateboard park, portable toilets and off-street parking for 75 vehicles. Two regulation soccer fields are planned for this site.

Old Muskego Settlement Centre: This 6.8-acre site, used by the Muskego Historical Society, has several replica and historic structures that have been relocated from the surrounding area including the Old Muskego Town Hall. Muskego Historical Days is held here in July, and tours are conducted during the Muskego Community Festival. The Old Muskego Town Hall structure is utilized for recreation programming.

Chapter 4: Utilities & Community Facilities

Park Arthur: This 61-acre undeveloped park site, located on the far north central part of the City, contains open agricultural land, and areas of woodlands and wetlands within an isolated natural resource area. The site will be developed into a community park.

Schmidt Park: This 6.6-acre park located in the northeastern part of the City has two tennis courts, an open play field area, one basketball court, and playground equipment for the 2-5 year and 5-12 year age groups.

Veterans Memorial Park: Formerly referred to as Leisure Park, this 8.9-acre open space area between City Hall and the Old Settlement Centre is the site of the annual Muskego Community Festival. The site contains a shelter, restrooms, and playground equipment for the 2-5 year and 5-12 year age groups. Paved walking paths in the park connect to a boardwalk nature trail that winds through a 4.2-acre woodland area named “Betty’s Woods” in memorial of Betty Czarapata who raised awareness of managing invasive plant species in the community. This trail connects to the Old Muskego Settlement Center. The open turf area is occasionally used for soccer practice and recreation classes.

A future permanent site to the Muskego Community Festival as an alternative to Veteran Memorial Park may need to be investigated as the festival has space constraints.

Table 4.1 Continued.....

Number on Map	Park or Open Space	Acres	Park Type	Baseball	Basketball	Boat Launch	Camping	X-Country Skiing	Football	Hike/Walk Trail	Hist. Significance	Horseback Riding	Ice Skating	Lake Access/Fishing	Meeting/Classrooms	Natural/Conservation Area	Picnicking	Playground (2-5 yr.)	Playground (5-12 yr.)	Pond	Recreation Trail	Restrooms	Running Track	Shelter	Skateboarding	Snowmobile Trail/Access	Soccer Fields	Softball/Baseball	Swimming	Tennis Courts	Volleyball		
31	Moorland Park	36.9.0	Special Use												X							X											
32	Old Muskego Settlement Centre	6.8	Open space							X	X																						
33	Park Arthur	61.1	Undeveloped															X	X														
34	Schmidt Park	6.6	Neighborhood		1												X	X	X														
35	Veterans Memorial Park	8.9	Neighborhood							X							X	X	X														
	City of Muskego Totals	327.1	~	2	13	7	0	0	1	7	1	1	1	21	3	11	7	10	9	1	3	12	0	4	1	5	4	7	1	7	0		
	School Sites																																
36	Bay Lane/Country Meadows School	5	School		7													X	X			X											
37	Lake Denoon Middle School	40	School		1													X	X			X											
389	Mill Valley Elementary School	5	School		2													X	X			X											
39	Muskego Elementary School	1.5	School		2													X	X			X											
40	Muskego High School	45	School						1									X	X			X											
41	Tess Corners Elementary School	3.5	School		2													X	X			X											
	School Site Totals	100	~	0	14	0	0	0	1	0	0	0	0	0	0	0	0	4	4	1	0	6	1	0	0	0	4	9	1	12	0		
	Waukesha County Sites																																
43	Muskego Park	209	Regional				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Total (All Park Sites)	636	~	2	27	7	1	1	2	8	1	1	1	23	2	22	7	9	13	3	3	19	1	5	1	5	8	16	3	20	1		

Publicly Owned School Sites

The Muskego-Norway School District has six schools located within the City. These sites also encompass open area and provide outdoor recreational activities available to the community at times outside of school uses.

Bay Lane Middle School/Country Meadows Elementary School: This school has five acres of open space that provide seven basketball goals, four baseball/softball diamonds, soccer facilities, a walking trail, and playground equipment for the 5-12 year age group.

Lake Denoon Middle School: This school has approximately 40 acres of open space with a basketball goal, ponds, and a potential sledding hill. Other outdoor facilities are available at the neighboring Denoon Park.

Mill Valley Elementary School: This school has a five-acre open area that provides playground equipment for the 2-5 year, and 5-12 year age groups, a basketball court, and three baseball/softball diamonds. One of these diamonds has lighting for night games.

Muskego Elementary School: This school has a 1.5-acre open area that provides two basketball goals and playground equipment for the 5-12 year age group.

Muskego High School: A 45-acre athletic complex provides a running track/football field stadium, two softball diamonds, two baseball fields, three soccer fields, two football practice fields, twelve tennis courts, rest rooms, and a paved pedestrian path. There is also an indoor pool used for aquatic recreation programs.

Tess Corners Elementary School: This school has a 3.5-acre open area that provides two basketball goals, an open turf ball field area, and playground equipment for the 5-12 -year age group.

Waukesha County Park Site

There is one county park, Muskego Park, located in the near northwestern part of the City. This 209-acre park provides picnicking, camping, play fields, swimming beach, and a tennis court. Portions of the hiking trails in this park provide opportunities for cross-country skiing and horseback riding. A 73-acre area of hardwood forest and wetland is designated as a State Natural Area.

Private Recreation

Private recreational sites also exist in Muskego. These sites offer lake access, boat launches, and trapshooting. Two public golf courses, an 11-acre par 3 golf course and a 243-acre 18-hole country club await the golf enthusiast. Muskego is also served by two bowling centers.

Conservation Facilities

The City of Muskego owns 22 conservation sites that collectively cover 357 acres. Of this total, 114 acres lie within the City of Muskego park sites. Categorized by cover types, these lands collectively cover 92 acres of upland woods, 49.5 acres of prairie, 123 acres of wetlands, 40 acres of wet woods, one acre of wet prairie, and 51 acres of other surfaces. The Engel Conservation Area opened in July of 2006. The 145-acre site is the newest conservation site in the city and was developed for passive recreational use and outdoor education.

City of Muskego Conservation Sites

The following section briefly describes the size, location and cover types of City-owned conservation sites. More detailed descriptions of vegetative cover types for City conservation lands is found in *Management Plan for City of Muskego Conservation Lands*. This management lays out specific land

Chapter 4: Utilities & Community Facilities

management recommendations in five-year increments. Table 4.2 summarizes the following data for each site and identifies a site number that corresponds to their locations on Maps 4.11.

Big Muskego Lake Access (Durham Drive): This eight-acre site located on the northern shore of Big Muskego Lake in the east-central portion of the City provides the only publicly owned boating access to Big Muskego Lake/Bass Bay. The site includes wetlands and primary environmental corridor along the lake's shore. Big Muskego Lake and the surrounding marsh contain habitat for two endangered bird species, the Forster's Tern and the Common Tern, and one threatened bird species, the Osprey. The marsh is classified as a natural area of local significance in the 1997 Southeastern Wisconsin Regional Planning Commission document: *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin*.

Blattner Conservation Site: A seven-acre parcel of land containing open grown oak and hickory trees and an isolated wetland was dedicated to the City in the platting of Boxhorn Reserve Subdivision. This area was historically an oak savanna and could be restored through vegetation management.

Bluhm Park: This 50-acre community park is located in the northeastern portion of the City. In addition to active recreation areas, the site encompasses seventeen acres of oak woodlands, 2 acres of prairie (planted during the summer of 2002) and 2 acres of wetlands/wet prairie. The woodlands are classified as an isolated natural resource area.

Candlewood Creek Subdivision Outlots: Four separate outlot parcels adjacent to an unnamed tributary to Bass Bay were dedicated to the City upon the platting of Candlewood Creek subdivision. Approximately one third of the land cover is wetland.

Denoon Park: This 63-acre community park is located in the southwestern portion of the City on the northwestern shore of Lake Denoon. The park encompasses approximately seven acres of wetlands and nine acres of upland woods. Four acres of mesic (moderate moisture) prairie with scattered bur oaks have been planted within the park in an effort to recreate the oak savanna land cover type. Wetlands and woodlands within the primary environmental corridor associated with Lake Denoon can also be found at this site. Lake Denoon provides habitat for the Black Tern, a rare bird species.

Engel Conservation Area: This 153-acre conservation site is developed for passive recreational use and outdoor education. There are 22 acres of upland woodlands, 93 acres of wetlands (including 22 acres of wet woodlands), and 31 acres of upland prairie plantings within the property. A 67-acre area on the northern half of the property was enrolled into the Natural Resources Conservation Service (NRCS) Wetlands Reserve Program. Wetland restoration began in fall of 2006. The Engel Conservation Area has off street parking for approximately 26 vehicles and a portable restroom facility. The approximate four miles of hiking trails that traverse the site have interpretive signage for self-guided nature walks. Long-term developments may include a nature center/interpretive building with classrooms and restroom facilities.

Guernsey Meadows: This eight-acre open space located in the north-central part of the City contains woodlands of mixed hardwood species within an isolated natural resource area. An old field of 1.5 acres was converted to prairie vegetation and planted with bur oaks as an effort to recreate an oak savanna.

Holz Island: This one-acre island located near the eastern shore of Little Muskego Lake is entirely forested with a mixture of hardwood trees. It is identified as being within a primary environmental corridor.

Horn Field/Old Muskego Historical Center: This 30-acre neighborhood park located in the north-central portion of the City contains an isolated natural resource area with almost eight acres of woodlands and ten acres of wetlands. One acre of unused turf area was planted with prairie vegetation.

Janesville Road Wetland: This seven-acre City-owned parcel north of Janesville Road contains a 1.9-acre wetland within an isolated natural resource area. The north end of the site has a retention pond built in conjunction with a residential development.

Kelsey Drive Retention Pond: This nine-acre open space has a one-acre retention pond on the south end. In Fall 2005, four acres of prairie was planted around the pond's perimeter. Future plans will plant the remaining area to prairie.

Kurth Park: This 18-acre neighborhood park is located in the northeastern portion of the City. Tess Corners Creek and its associated secondary environmental corridor border the northeastern edge of the park. Prairie vegetation was established on one acre of this park to buffer the creek, improve aesthetics, and provide wildlife habitat.

Library: The Muskego Public Library has a one acre wetland area and a prairie planting that covers one third of an acre.

Luther Parker Cemetery: This cemetery, covering 0.6 acres, contains the burial sites of some of the earliest European settlers to this area including Luther Parker, who is credited as the Muskego area's first European settler. The site contains a remnant mesic prairie of rich diversity and is identified as a natural area of local significance in: *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin* (SEWRPC, 1997).

Manchester Hill Park: This 15-acre park, located in the north central part of the City, has a 1.3-acre prairie planting surrounding a 1.5-acre pond. It also includes 3.4 acres of woodlands and 1.5 acres of wetlands within an isolated natural resource area.

Marlan Meadows Park: This 7.6-acre mixed hardwood forest site located in the north central part of the City is classified as an isolated natural resource area.

Moorland Park: This 36.8-acre park has 4.5 acres of wetlands.

Park Arthur: This 46-acre undeveloped area, located on the far north central part of the City, contains open agricultural land, and areas of woodlands and wetlands within an isolated natural resource area.

Quietwood East Wetlands: Wetlands encompassing 12.8 acres adjacent to an unnamed Bass Bay tributary stream were dedicated to the City upon the platting of Quietwood East subdivision.

Table 4.2 Muskego Conservation Lands

Number on Map	Site Name	Woodland Acres (Upland)	Wetland Acres	Prairie Acres (Upland)	Wet Woodlands	Wet Prairie	Wooded Prairie (Savanna)	Other	Total Acres
City Sites									
1	Big Muskego Lake Access		4.3		2.1			1.4	7.8
2	Blattner Conservation Site	2.5	1.2					3.4	7.1
3	Bluhm Park	16	2	1.8	0.3			1.4	21.5
4	Candlewood Outlots	0.6	2.8		0.1			6.4	9.9
5	Denoon Park	8.1	6.6	3.2	4.4			1.3	23.6
6	Engel Conservation Area	22	69.6	31.2	22.1	1		6.9	152.8
7	Guernsey Meadows	5.9		1.6				0.3	7.8
8	Holz Island	1.2						0	1.2
9	Horn Field/Historical Area	8.4	9.7	0.7	0.6			0.4	19.8
10	Janesville Road Wetland		1.9					4.7	6.6
11	Kelsey Conservation Site			4.3				5.1	9.4
12	Kurth Park			0.7				0	0.7
13	Library		0.9	0.3				0	1.2
14	Luther Parker Cemetery			0.5				0.1	0.6
15	Manchester Hill Park	2.2	2.1	1.3	0.3			0	5.9
16	Marlan Meadows	7.6						1	8.6
17	Moorland Park		4.5					15.3	19.8
18	Park Arthur	8.2	0.5		0.2			0	8.9
19	Quietwood East Wetlands		12.8					2.5	15.3
20	Ridges Conservation Site	4.3	12.2		9.8			0.3	26.6
21	Veterans Memorial Park	4.2		0.1	0.8			0	5.1
22	Woods Road Wetland			3.2				0.9	4.1
-	City Totals	92	123.2	49.5	40	1	0	51	356.7
County									
-								0	
23	Muskego Park	116.9	18.2		5.4			7.8	148.3
State									
-								0	
24	Big Muskego Lake Islands			2.5				0	2.5
25	Big Muskego Lake Wildlife Area	20.2	210.9	10.5	18.7			106.2	366.5
26	DOT site	32.1	69.1	36.2				0	137.4
-	State Totals	52.3	280	49.2	18.7	0	0	106.2	506.4
Other									
-								0	
27	Big Muskego Estates Subdivision*	3	21.2	2.2				39.6	66
28	Chamberlain Hill Subdivision*	6	1.3	2.9				2.5	12.7
29	Martin Estates Subdivision*	14.1	8.9	2.9				0.4	26.3
30	Muskego Lakes Land Conservancy	1.3						0.2	1.5
31	Quietwood Creek Subdivision	4.6	20					0	24.6
32	Wind Lake Management District		67					10.4	77.4
	Other Totals	29	118.4	8	0	0	0	53.1	208.5
	Total (All)	290.2	539.8	106.7	64.1	1	0	218.1	1220

Ridges Subdivision Park: This 27-acre open space site located in the northwestern portion of the City encompasses some relatively high quality wetlands and mixed hardwoods within a secondary environmental corridor.

Veterans Memorial Park: This 8.9-acre park located north of City Hall includes 4.2 acres of woodlands and 0.8 acres of wet woodlands within an isolated natural resource area. The woodlot was recently named Betty's Woods to memorialize Betty Czarapata who spearheaded invasive species management projects in Muskego. A boardwalk trail with interpretive nature signage traverses Betty's Woods. A small patch of prairie was planted adjacent to Racine Avenue.

Woods Road Wetland: This 4.1-acre parcel adjacent to Woods Road in the west central part of the City has over three acres of wetlands.

County Conservation Lands

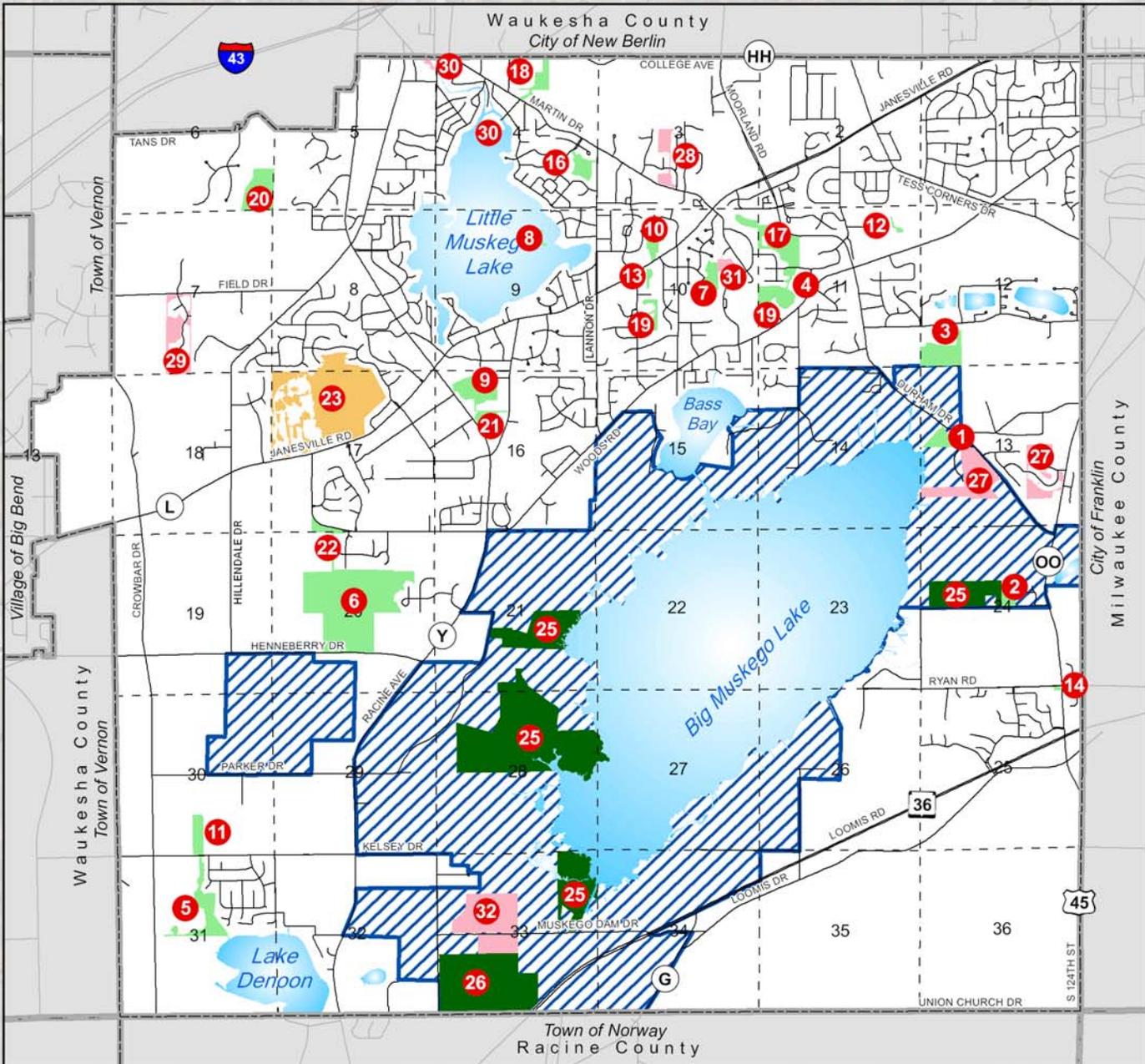
Waukesha County owns and manages Muskego Park, which contains 148 acres of lands with environmental significance. A 73-acre forested area within this park is designated as a State Natural Area. The forest has a diversity of hardwood species including the threatened Blue Ash as well as Kentucky Coffee tree, which is uncommon in Wisconsin. The endangered crow-spur sedge grows on the site as well as exceptionally diverse spring woodland flora. The area also provides habitat for the Cooper's hawk, an uncommon bird species.

State Conservation Lands

In 1999, the State of Wisconsin Department of Natural Resources (DNR) set a 3,800-acre project area boundary for establishing the Big Muskego Lake Wildlife Area. Since lands will be acquired only from willing sellers and with available funding, the realized size of the Big Muskego Lake Wildlife Area is expected to be smaller. The purpose of the area is to protect, enhance, and manage the aquatic and terrestrial resources of Big Muskego Lake and surrounding lands, as well as to provide public hunting, fishing, and compatible recreational and educational opportunities. The Big Muskego Lake and surrounding marsh area are classified as a natural area of local significance by SEWRPC and contain several critical species. As of December 2005, the DNR had purchased a total of 367 acres of land within the project boundary.

The Wisconsin Department of Transportation (DOT) has a wetland mitigation site within the City that covers 138 acres. This site has since been turned over to the WDNR for the wildlife area purposes. Locations of the DNR lands are illustrated on Map 4.10.

Map 4.10



LEGEND

-  County Conservation Site
-  City Conservation Site
-  Private Conservation Site
-  State Conservation Site
-  Big Muskego Lake Wildlife Area Project Boundary
-  Site numbers correspond to (Table 4.2)



0 0.5 1 2 Miles

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Other Conservation Lands

There are also 190 acres of lands within the community that are conserved through other various mechanisms. These include lands owned by subdivision homeowners associations, lake districts, and nonprofit conservation organizations. There are 111 acres of subdivision outlots with preservation restrictions or conservation easements placed upon them. (Note: This total does not include the many areas of wetlands within subdivisions that have preservation restrictions). Wind Lake Management District also owns 77 acres of land that consists of mostly wetlands. Table 4.2 identifies these privately owned conservation lands and Map 4. 11 depicts their locations.

2008 Survey

A section in the 2008 Comprehensive Planning Survey was in relation to parks, recreation, and conservation lands. Recommendations for this element in relation to the 2020 Land Use Plan are based upon the main responses from the survey discussed below.

The survey directed questioning as to the public's thoughts on the interconnection and promotion of recreation trails and the perceived problem transportation areas in Muskego.

The first question inquired if current park facilities and lands were sufficient in the respondent's minds. The majority of the respondents agreed (49%). The second question asked if there is areas in the City that people felt were underserved by parks. Further, if the respondent believed there were underserved areas, where those areas might be and what facilities may be needed. Only 15% of the people felt that there were areas underserved by parks. Of those 15%, the following re-occurring responses were mentioned:

- Southeast corner of Muskego
- East side of Muskego
- Parks and access enhancements to Big Muskego Lake
- Lighted softball/hardball diamonds
- Need sledding hill
- More recreational fields in general (softball, baseball, football, soccer, etc.)
- More paved biking trails (College and Martin)
- Need Dog park
- Community outdoor pool
- More facilities at Moorland Park
- Park near Martin/Janesville area
- Develop Park Arthur
- More basketball hoops at parks
- Enhancements and identification of lake access/view points
- Bluhm Park upgrades
- A community center or downtown park (open space, city center, playgrounds)
- More beaches or enhance Idle Isle beach
- Mountain bike trails
- Cross-country ski/ice skate areas
- Add outdoor pool/water park
- Bow range facility needed

The survey requested if respondents believed that current conservation land facilities were sufficient as well. While the highest response agreed (31%), many were neutral (29%) or shared no opinion (16%) indicating many new little about the City's conservation facilities. When asked if people believe the City should continue to pursue acquiring conservation lands, however, the respondent's overwhelming agreed (44%) to accomplish this task.

Electricity and Natural Gas

Electric power in the City of Muskego is supplied by WE Energies. WE Energies' balanced power generating systems, as well as its aggressive conservation activities, have kept electric rates below those of neighboring regions. WE Energies offers a variety of service options to meet the customer's energy needs, and a comprehensive rebate program to encourage conservation.

Chapter 4: Utilities & Community Facilities

The Wisconsin Natural Gas Company, a subsidiary of WE Energies, provides gas service to all residents and businesses in Muskego. Utility services include assisting both new and relocating businesses in finding appropriate business sites and assorted technical assistance.

Telephone, Internet, and Television Service

AT&T (formerly SBC Communications, Inc.) provides local telephone service to the upper Midwest, including the City of Muskego. Residential customers can reach AT&T from 7am - 9pm Monday – Friday, and 8am – 5pm Saturday. Several companies provide long distance and cellular service throughout the City.

Many different companies, ranging from dial up connections, to DSL, to cable, provide Internet service to the City of Muskego. Many local and national companies offer dial-in connections for the Internet as well. DSL and cable connections offer constant connections with speeds exceeding those possible with dial-up connections, although prices may be more than for a dial-up provider. Time Warner offers cable Internet connection to the community through Road Runner. In addition, other providers may offer high-speed connections, depending on the user’s location.

Time Warner Cable provides television services to the City, Subscribers can gain access to over 200 digital channels of news, movies, entertainment, sports, and special interest programs. Channel 14 and 25 are public access and government access channels.

Cemeteries

Luther Parker Cemetery

The City of Muskego owns and operates the historic Luther Parker Cemetery located on the southeast portion of Muskego along North Cape Road. This cemetery, covering 0.6 acres, contains the burial sites of some of the earliest European settlers to this area including Luther Parker, who is credited as the Muskego area’s first European settler. The site contains a remnant mesic prairie of rich diversity and is identified as a natural area of local significance in: *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin* (SEWRPC, 1997). The Luther Parker Cemetery has no saleable lots.

St. Paul’s Cemetery

Another cemetery is found in the City owned by St. Paul’s Lutheran Church. The St. Paul’s Cemetery is located on the south side of Janesville Road just east of Tess Corners Drive. The cemetery was established in 1857 and is still active.

Jones Cemetery

The Jones cemetery is located on the south side of Janesville Road, opposite the old Muckey School. This inactive cemetery was established circa 1852, with the last burials in the 1860s. There were approximately 20 burials. This was a cemetery located on private property and has since been plowed under with a number of houses being built on the land. At the Waukesha County Museum there is information on the cemetery, including a list of a few people known to have been buried there.

Religious

The City of Muskego has ten places of worship, representing seven denominations, offering the residents of Muskego many opportunities for a rich spiritual life. Muskego’s religious institutions help enrich the lives of their parishioners, while providing valuable service to the community. The institutions are found in Table 4.3 and Map 4.11 below. As new neighborhoods are planned, the city should identify locations

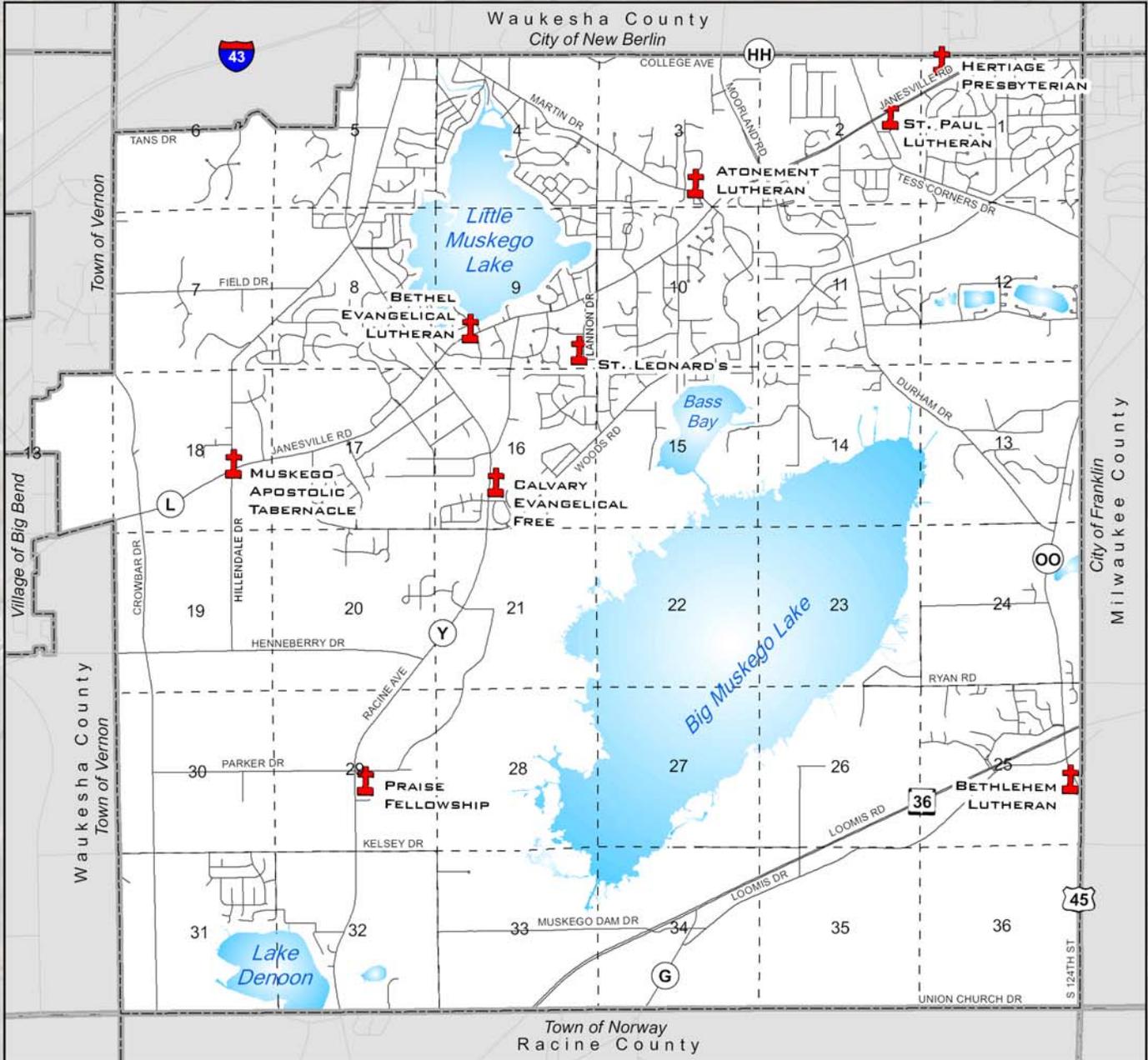
where additional religious facilities can be accommodated in a way, which will contribute to neighborhood strength.

Table 4.3 Religious Institutions

Name	Address
Atonement Lutheran Church	S70 W16244 Martin Drive
Muskego Apostolic Tabernacle	S83 W20778 Janesville Road
Bethel Lutheran Church	S77 W18426 Janesville Road
Praise Fellowship Church	W195 S9912 Racine Avenue
Bethlehem Lutheran Church	W124 S9995 North Cape Road
St. Leonard Catholic Church	W173 S7777 Westwood Drive
Calvary Evangelical Free Church	W182 S8470 Racine Avenue
St. Paul's Lutheran Church	S66 W14325 Janesville Road
Heritage Presbyterian Church	S63 W13761 College Avenue

Religious Institutions

Map 4.11



LEGEND

 Religious Institutions



0 0.5 1 2 Miles

Created by City of Muskego
Planning Department

