

Great Lakes Water Supply Program



Great Water Alliance |
City of New Berlin Plan Commission
Booster Pumping Station and Pipelines

November 4, 2019



**GREAT WATER
ALLIANCE™**



Waukesha Water Utility

SERVING C. WAUKESHA SINCE 1888



GREELEY AND HANSEN

Great Water Alliance

Purpose and Background

Public Meetings Held in New Berlin

- June 29, 2017 – Great Water Alliance Open House – Return Flow
- February 15, 2018 – Great Water Alliance Open House – Water Supply
- June 4, 2019 – Booster Pumping Station Public Information Meeting
- June 25, 2019 - Plan Commission Meeting
- August 12, 14, 16, 2019 – Open Information Sessions

Engagement with City of New Berlin Staff



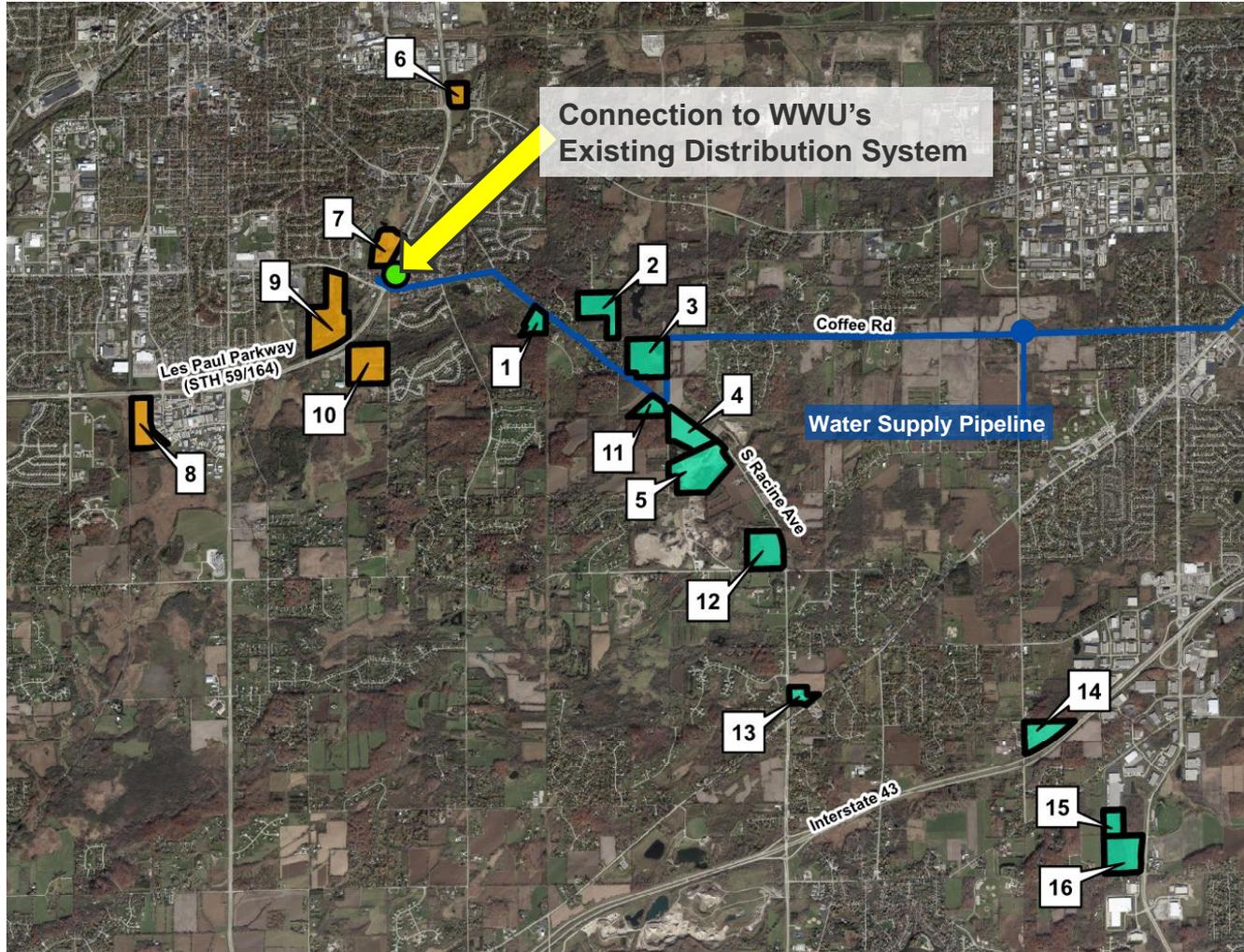
Conditional Use Application

- A Conditional Use Application was prepared and submitted on September 19, 2019.
- The application requests approval of the Conditional Use based on meeting criteria identified in the New Berlin Municipal Code, Section 275-27(C).

Booster Pumping Station Site Evaluation

Booster Pumping Station Sites Evaluated

All Sites



Site Evaluation Criteria

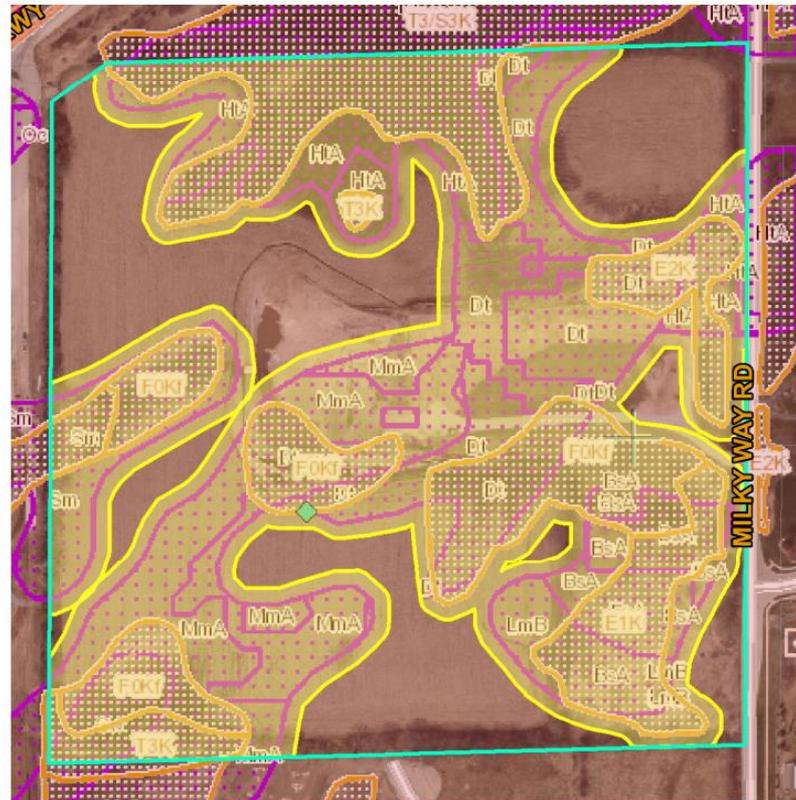
- Non-Economic Evaluation Criteria

- Total pipeline length to water supply route
- Current use of property
- Planned use for property
- Existing structures and infrastructure
- Planned structures and infrastructure
- Geotechnical conditions
- Contaminated materials
- Wetlands
- Waterway impacts
- Endangered resources
- Agricultural resources
- Maintenance of traffic requirements
- Traffic impacts
- Recent regional projects
- Planned regional projects
- Stakeholder feedback
- Real property acquisition
- Easement requirements
- Constructability
- Topography and hydraulics
- Availability of property
- Vicinity to closest residents
- Cultural resources

Site Evaluation – Summary Table

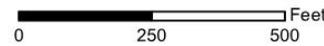
| SITE ALTERNATIVE NO. | SITE ALTERNATIVE LOCATION | FLOODPLAIN ISSUES | SOIL CONTAMINATION ISSUES | WETLAND ISSUES | GEOTECHNICAL ISSUES | DISTANT TO PIPELINE | AVAILABILITY ISSUES | PRIVATE PROPERTY |
|----------------------|--|-------------------|---------------------------|----------------------|---------------------|---------------------|---------------------|------------------|
| 1 | MINDOKA PARK MULTI-SPORT FIELD | NO | NO | HYDRIC SOILS PRESENT | NO | NO | YES | NO |
| 2 | PRIVATE PROPERTY AT W COFFEE RD AND S RACINE AVE | NO | YES | NO | YES | NO | NO | YES |
| 3 | LANDFILL AT SWARTZ RD AND W COFFEE RD | NO | YES | NO | YES | NO | NO | YES |
| 4 | PRIVATE AGRICULTURAL FIELD AT SWARTZ RD AND S RACINE AVE | NO | NO | HYDRIC SOILS PRESENT | NO | NO | NO | YES |
| 5 | QUARRY ON S RACINE AVE | NO | NO | NO | YES | YES | NO | YES |
| 6 | PRIVATE PROPERTY AT E BROADWAY AND LES PAUL PKWY | NO | NO | YES | NO | YES | NO | YES |
| 7 | OPEN LANDS EAST OF HEYER ELEMENTARY SCHOOL | NO | NO | YES | NO | NO | NO | NO |
| 8 | PEBBLE BROOK NATURAL AREA | YES | NO | YES | NO | YES | NO | NO |
| 9 | OPEN LANDS WEST OF PARI NATURAL AREA | YES | NO | YES | NO | YES | NO | YES |
| 10 | WAUKESHA OWNED PROPERTY ALONG MILKY WAY RD | NO | NO | YES | NO | YES | NO | NO |
| 11 | MINDOKA PARK AT SWARTZ RD AND S RACINE AVE | NO | NO | NO | NO | NO | NO | NO |
| 12 | PRIVATE PROPERTY AT LAWNSDALE RD AND RACINE AVE | NO | NO | YES | NO | YES | NO | YES |
| 13 | ABANDONED ELEMENTARY SCHOOL AT RACINE AVE AND NATIONAL AVE | NO | NO | NO | NO | YES | NO | YES |
| 14 | PRIVATE PROPERTY AT CALHOUN RD AND I-43 | NO | NO | NO | NO | YES | NO | YES |
| 15 | PRIVATE PROPERTY NEAR MOORLAND RD AND COLLEGE AVE | NO | NO | HYDRIC SOILS PRESENT | NO | YES | NO | YES |
| 16 | PRIVATE PROPERTY NEAR MOORLAND RD AND COLLEGE AVE | NO | NO | HYDRIC SOILS PRESENT | NO | YES | NO | YES |

Site Alternative 10



Legend

- 30' Building Setback
- WI DNR Wetlands
- Max Extent Wetland Indicators
- Parcel



Site Alternative 5

1970 AERIAL IMAGE



Site Alternative 2

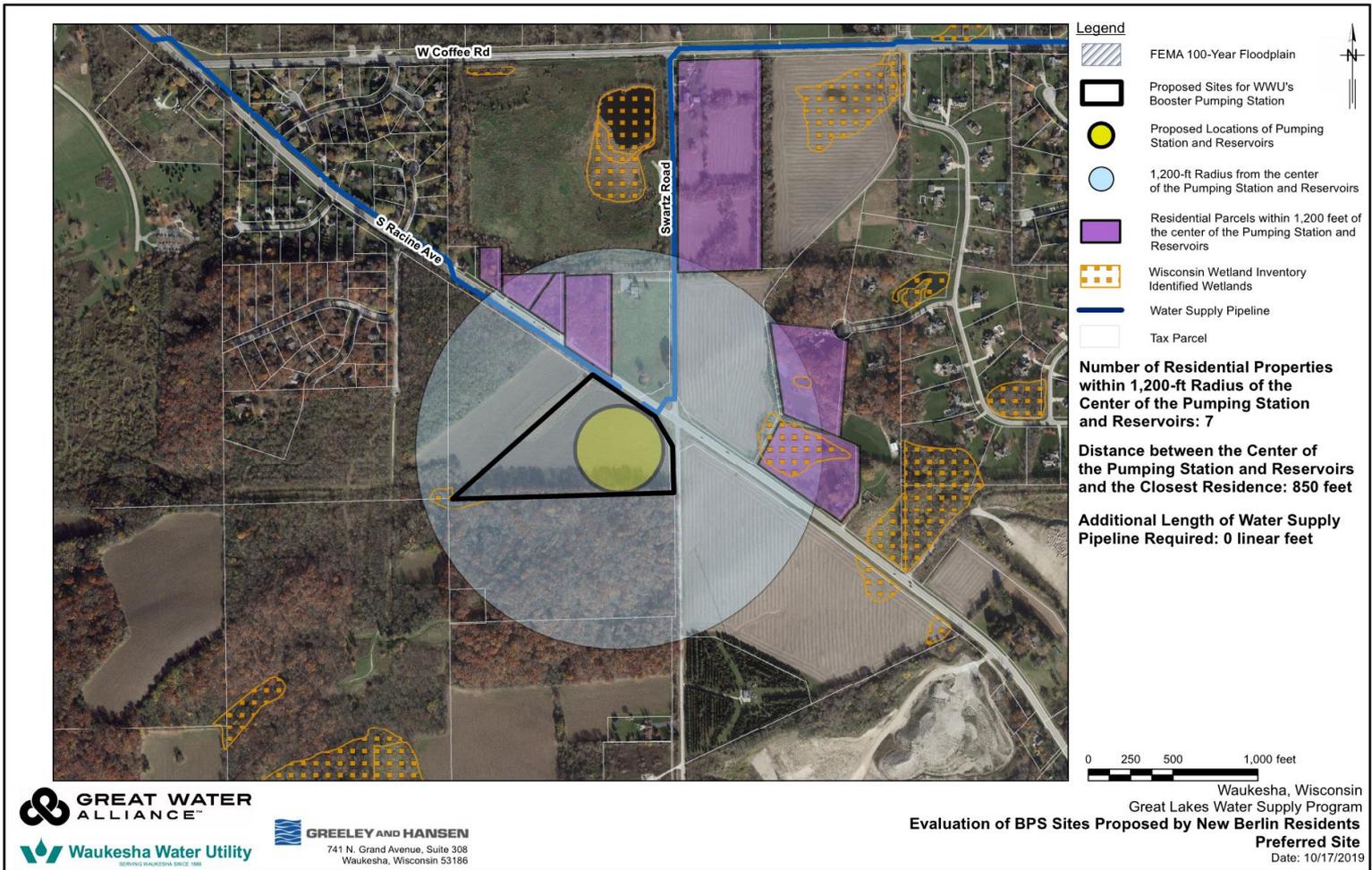
1963 AERIAL IMAGE



1970 AERIAL IMAGE



Preferred Site



Landscape Plan

- Improvements to the Design since June 27, 2019
 - Landscaping added for screening
 - Lowered the Water Storage Tanks 10-feet

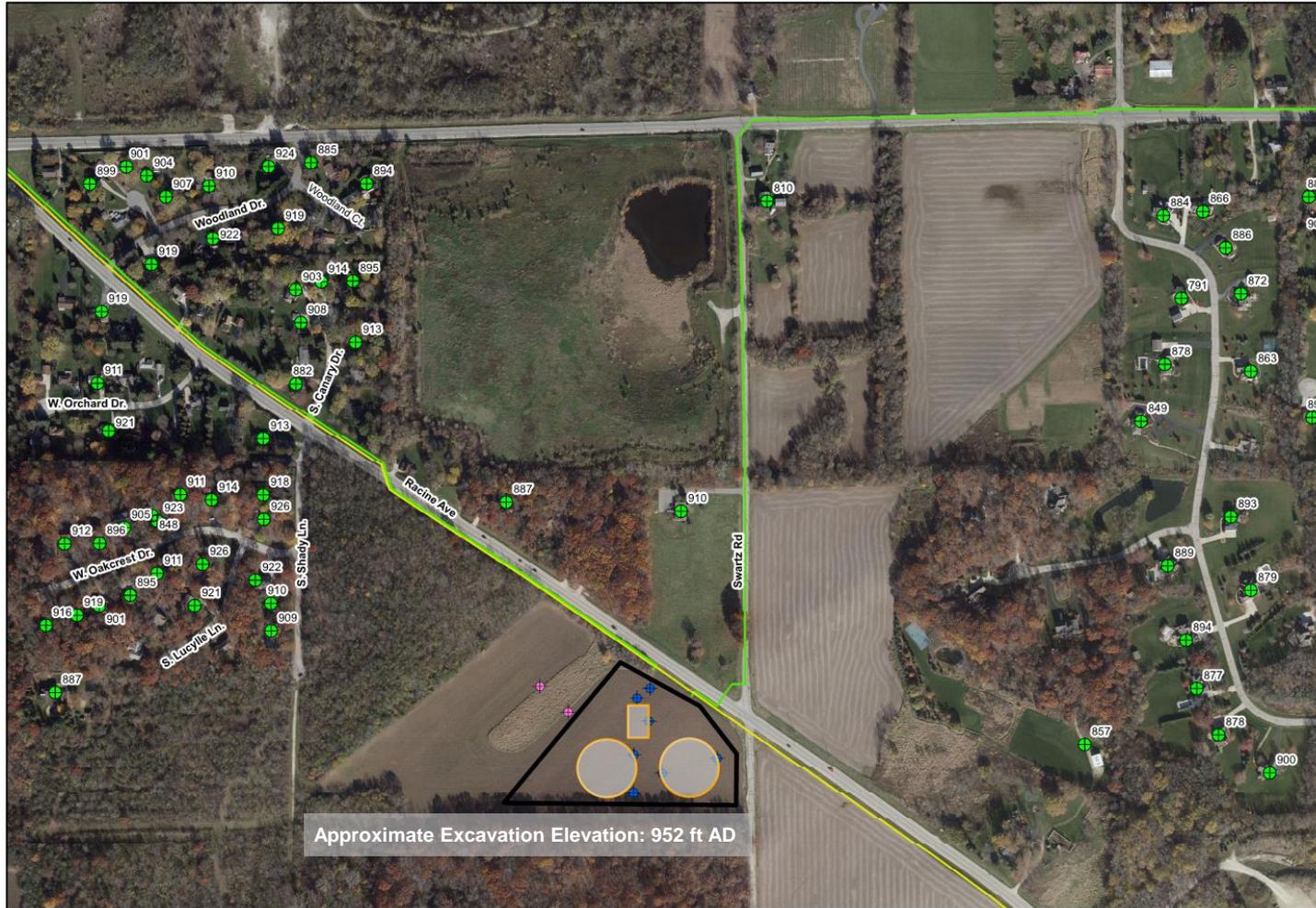
BPS Site - When Planted



BPS Site – Trees at 50% Maturity



Site Excavation Private Well Pumping Elevations

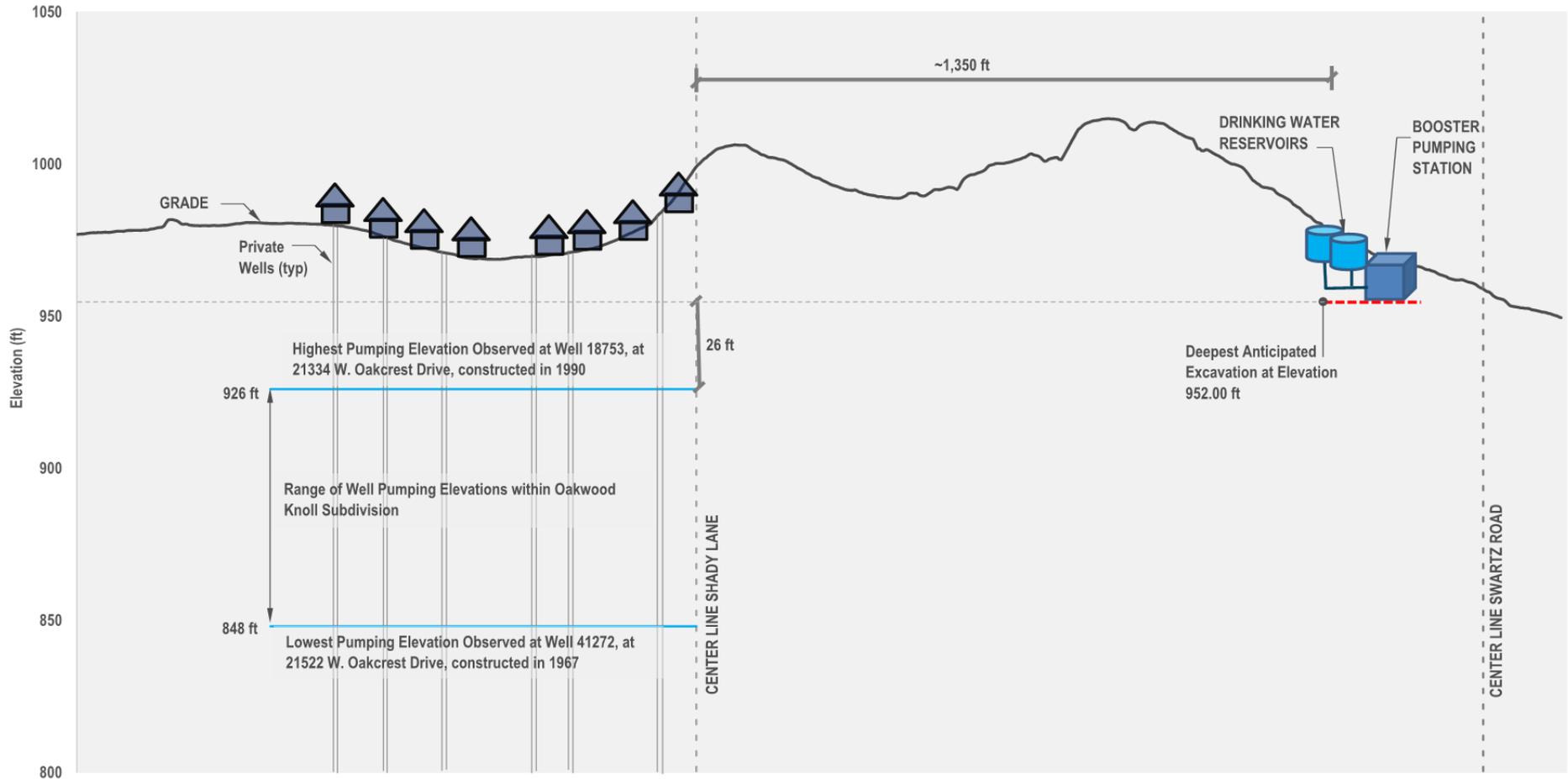


- Legend**
- Private Well
Static Water Level at
Time of Well Construction
(Mean Sea Level - Feet)
 - Soil Boring (30 ft Below Grade)
No Groundwater Encountered
 - Soil Boring (20 ft Below Grade)
Groundwater Encountered in Wetland
 - Water Supply Pipeline
 - Return Flow Pipeline
 - Booster Pumping Station
and Reservoirs Approximate Footprint
 - Booster Pumping Station
Site Boundary



Site Excavation Private Wells and BPS Excavation

CROSS SECTION - OAKWOOD KNOLL SUBDIVISION AND BPS SITE EXCAVATION



Property Taxes

- The City of New Berlin does not presently collect property taxes from the site and would not in the future as it would remain publically owned. The Booster Pumping Station being located there would not change this fact.
- If Waukesha Water Utility acquired private property in the City of New Berlin to locate the Booster Pumping Station, that property would no longer be taxable.

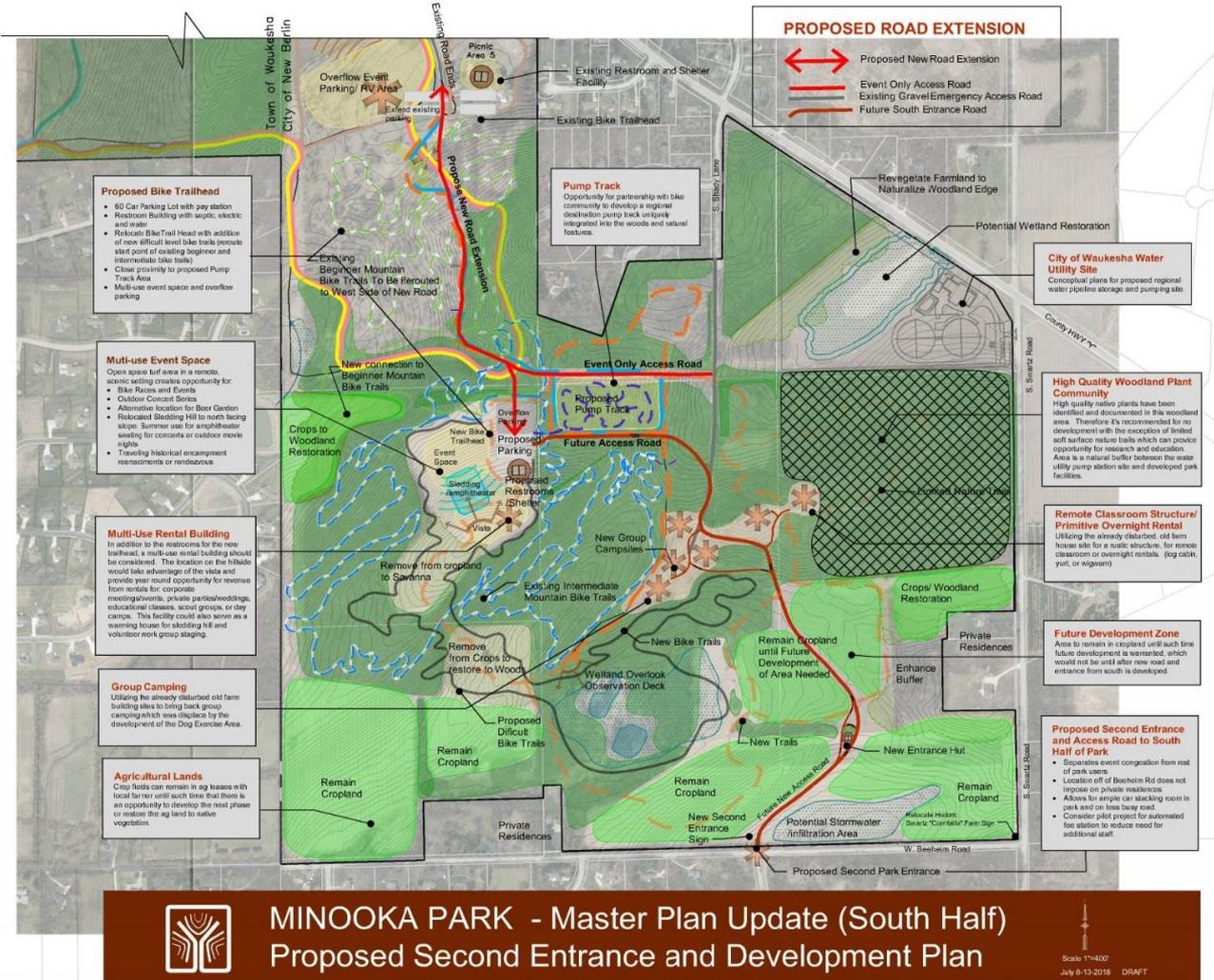
Construction Duration

- The overall duration of construction at the Booster Pumping Station site is approximately 30 months.
- The exact workflow is dependent on many factors, including the contractor, weather, and when construction begins.
- Anticipated schedule below:
 - Site preparation – 3 months
 - Initial grading and site work – 3 months
 - Below grade work - 3 months
 - Above grade work and interior Booster Pumping Station work – 15 months
 - Final grading and site work – 3 months
 - Startup and Commissioning - 3 months

Location within Minooka Park



Minooka Park Master Plan



MINOOKA PARK - Master Plan Update (South Half) Proposed Second Entrance and Development Plan

Scale 1"=400'
July 8-13-2018 DRAFT

Third-Party Review

Jason Valerius, AICP
Team Leader
MSA Professional Services, Inc

THANK YOU!

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Waukesha Water Utility

SERVING WAUKESHA SINCE 1886



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