## **BLACKHAWK TOWER**

**DESIGN CONSIDERATIONS** 

Water Utility Board May 24, 2016

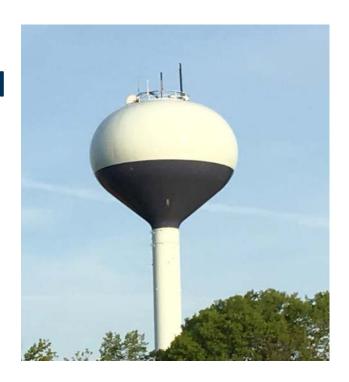




#### **DISCUSSION TOPICS**



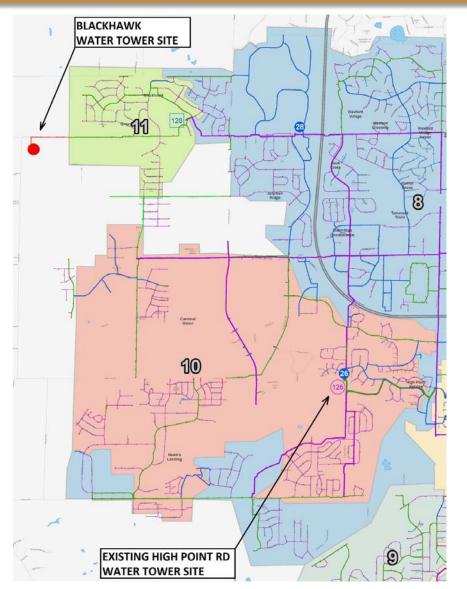
- 1. Brief Project Overview
- 2. Project Status/Background
- 3. Schedule
- 4. Key Design Decisions
  - Tank Style(s)
  - Site Layout/Location
  - Paint/Aesthetics





#### MAJOR PROJECT COMPONENTS



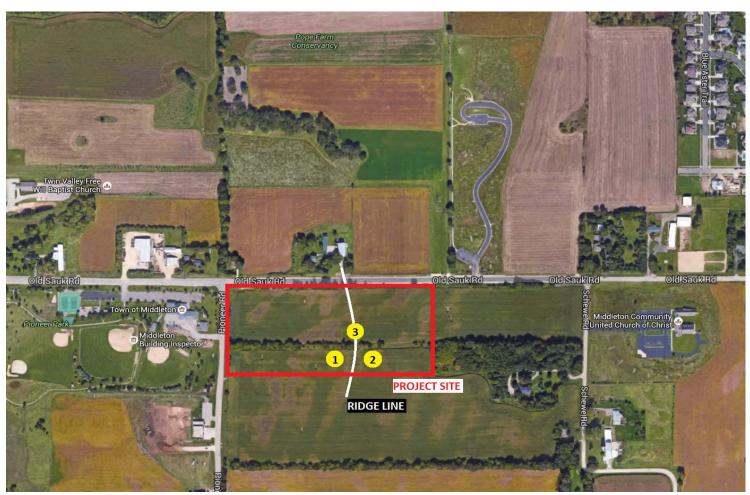


- 1,000,000 Gal. Elevated Tank
- Serves Combined Pressure
   Zones 10 and 11
- Provides Redundant Supply and Storage
- \$3,600,00 Budget (Tank and On-Site Improvements)
- Connecting Watermain by MWU



#### PROJECT LOCATION & PROPERTY LIMITS





## **CURRENT STATUS/BACKGROUND**



- 1. Held Initial Public Meeting (12/9/15)
- 2. Completed Topographic Survey of Site
- 3. Provided Various Opportunities for Public Input/Comment (Outreach Highlight Summary and Public Survey Results on Subsequent Slides)
- 4. Completed Preliminary Planning and Evaluation Steps
- 5. Held Second Public Meeting (5/5/16)



### RECENT PUBLIC OUTREACH HIGHLIGHTS



12/09/2015	Initial Public Meeting Attendees: 40-50
03/08/2016	<b>Update to email list: Public Hearing at Water Board</b> Click-throughs to web page: 70
03/11/2016	Public Hearing Notice Postcards sent to 2194 households
4/25/2016	Project Survey: Initial Design 16 respondents through 5/18/2016
4/25/2016	Public Meeting Notice Postcards sent to 2200 households
4/26/2016	Update to email list: Website update, Public Meeting notice Click-throughs to web page: 45
5/05/2016	Public Meeting: Initial Design Attendees: approx 15
5/11/2016	Public Hearing Notice Postcards sent to 2200 households
5/11/2016	Update to email list: Public Hearing Notice Click-throughs to web page: 15 Current active subscribers: 225
5/18/2016	Website Update: Public Hearing Memo Unique page views since launch: 796

Corresponding notices and updates have also been posted in a timely manner on the project website and social media.



#### **DESIGN SURVEY**



Open 4/25 to 5/18 16 total responses

Top interest in project: <u>Aesthetics</u>

Preferred site option: Site 1 (narrowly)

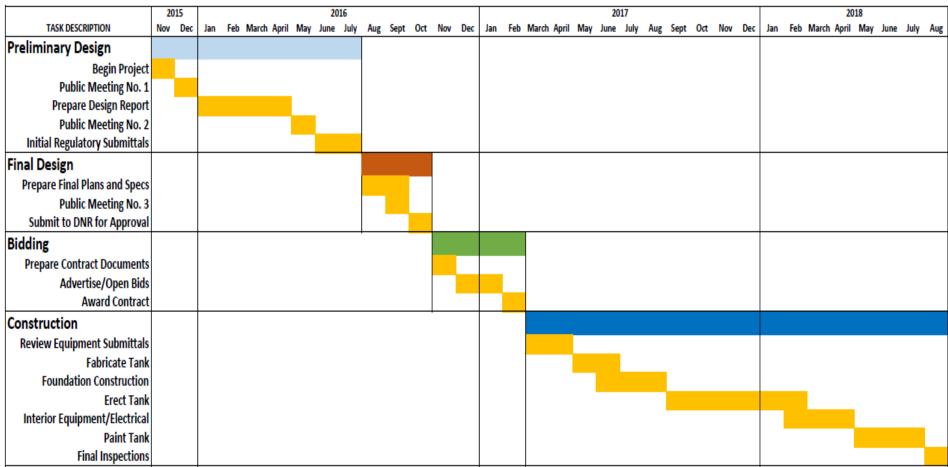
Preferred tank paint scheme: <u>Two-tone</u>

Preferred tank color: Blue



#### PROJECT SCHEDULE







## KEY DESIGN DECISIONS – TANK STYLES





**COMPOSITE** 

\$2.7 Million

Maintenance Cost Rank

Lowest

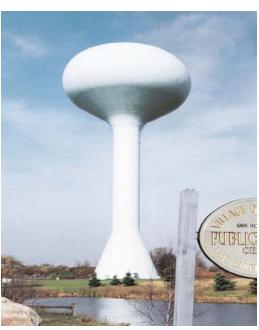


**HYDROPILLAR** 

\$3.1 Million

Maintenance Cost Rank

Highest



**SPHEROID** 

\$3.4 Million

Maintenance Cost Rank

Middle

#### KEY DESIGN DECISION - SITE LOCATION





Located Tank on High Ground with Access Road Off of Old Sauk Road

- 1. Suggested Tank Locations From PM #1
- 2. Three Locations
  Presented at PM #2
- 3. Net Savings to Move
  Closer to Road (Add
  \$3k/vf, but Deduct
  \$150/lf for Road and WM
  => Add \$4.5k for Location
  2, Net \$12k savings for
  Location 3 and Net \$7.5k
  savings for Location 4)



#### **KEY DESIGN DECISION – PAINT**







# Single or Two Toned Tank <a href="Painting is Madison Standard">Painting is Madison Standard</a>

- Two Toned Reduces Mold and Staining Under Tank
- Used Neutral Colors
- No Logos/Names



## KEY DESIGN DECISION – PAINT





**Single or Two Toned Tank Paint Examples for Composite Tank** 



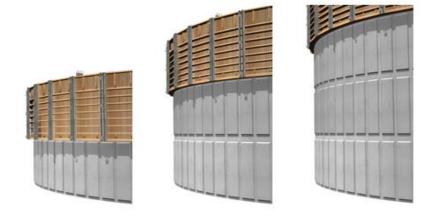
#### KEY DESIGN DECISION – AESTHETICS







Architectural Concrete
Forms and Concrete Quality
Control Requirements Provide for
Uniform Concrete Appearance
Between Concrete Pours





## KEY DESIGN DECISION – AESTHETICS







**Architectural Concrete Options** 

# FOLLOW UP QUESTIONS?





