



2018 Street and Utility Improvement Project



Public Hearing
September 12, 2017

Presentation Overview

- Project Location
- Existing Conditions
- Proposed Improvements
- Discussion Items
- Project Costs
- Assessments / Funding
- Schedule
- Questions and Comments



Park Drive East and Park Drive West intersection

Project Location

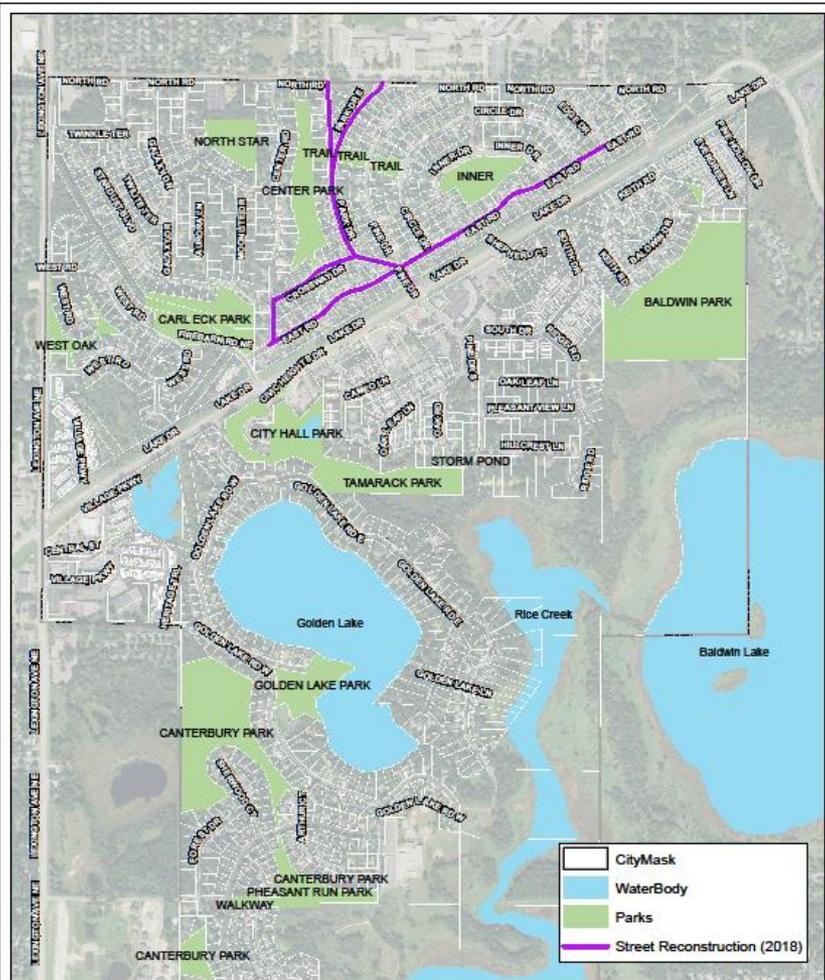


Figure 1 - Layout

2018 Street and Utility Improvement Project
City of Circle Pines

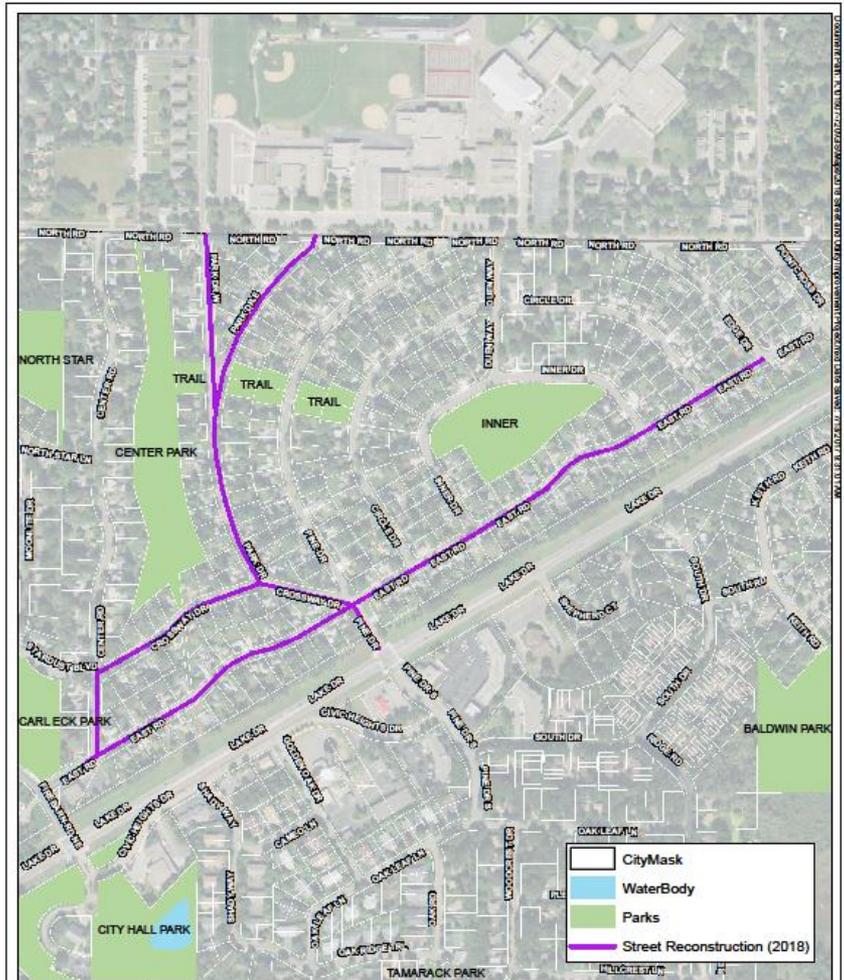
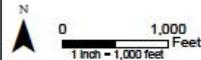


Figure 1 - Layout

2018 Street and Utility Improvement Project
City of Circle Pines



Existing Conditions

■ Street

- ❖ 1.58 miles of residential streets that were mostly constructed in 1967 (50 years old) – 33 to 34 feet wide
- ❖ Prevalent cracking in pavement (alligator, transverse, longitudinal, and edge)
- ❖ Condition index rated as “Poor” according to 2011 Pavement Management Program

■ Sanitary Sewer

- ❖ Root intrusion in mainline and service lines, cracked segments, and mineral deposits at joints
- ❖ Sanitary sewer has multiple sagging segments
- ❖ High infiltration rate
- ❖ Existing Sanitary Sewer is Vitrified Clay Pipe

Existing Conditions

■ Water Main

- ❖ Existing main line is cast iron pipe
- ❖ Some hydrant locations are not easily accessible

■ Storm Sewer

- ❖ Existing storm sewer was sized for design standards at the time of construction
- ❖ Storm sewer discharges directly to ditch which runs to Golden Lake
- ❖ Surface flow can cause surface deterioration of the pavement
- ❖ Existing storm sewer has no treatment for storm water

Proposed Improvements

■ Street Reconstruction

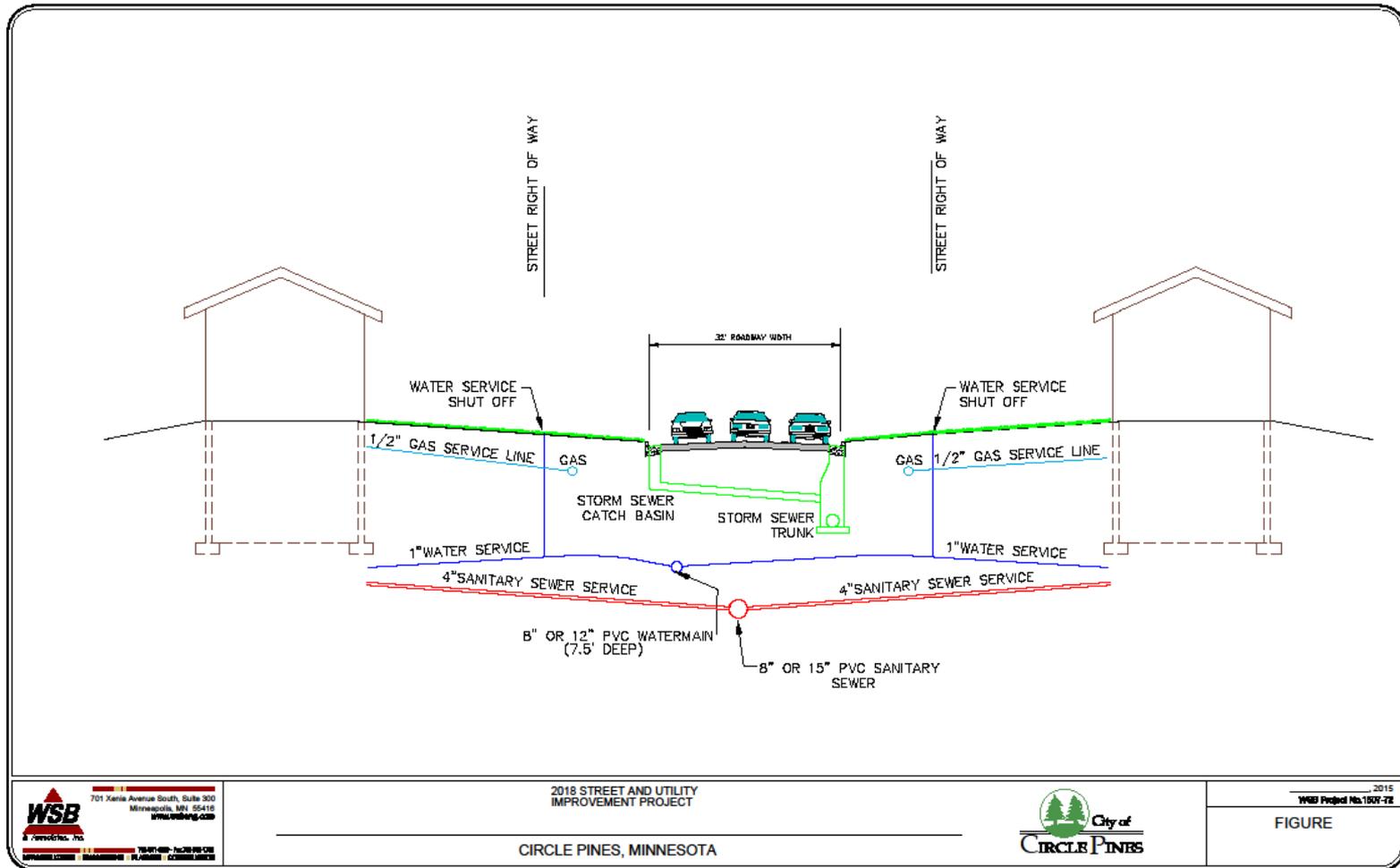
❖ Widths

- 32 foot street widths
- Complete reconstruction including curb and gutter, bituminous pavement, and subgrade preparation



Park Drive and Crossway Drive Intersection

Proposed Improvements



2018 STREET AND UTILITY
IMPROVEMENT PROJECT

CIRCLE PINES, MINNESOTA



2015
WSB Project No. 1507-72

FIGURE

Typical Cross Section

Discussion Items

- Realign intersection of Park Drive West and Park Drive East
 - Option 1- Maintain existing alignment
 - Option 2- Realign Park Drive East to connect with Park Drive West at close to a 90° angle



Park Drive West and Park Drive East Intersection

Proposed Improvements

■ Storm Sewer

❖ Drainage Improvements

- Redesign storm system to better meet current demands and design standards
 - Adding additional catch basins

❖ Utilize existing storm sewer outlet locations

❖ Storm Water Treatment

- Several options are being evaluated to treat the storm water before it will enter the ditch that runs to Golden Lake

Proposed Improvements

■ **Gas Main Replacement (by Centennial Utilities)**

- ❖ Dual 2" plastic gas main (1 main on each side of street)
- ❖ Gas service replacement from the main to the home meter
- ❖ Completed prior to street and utility construction

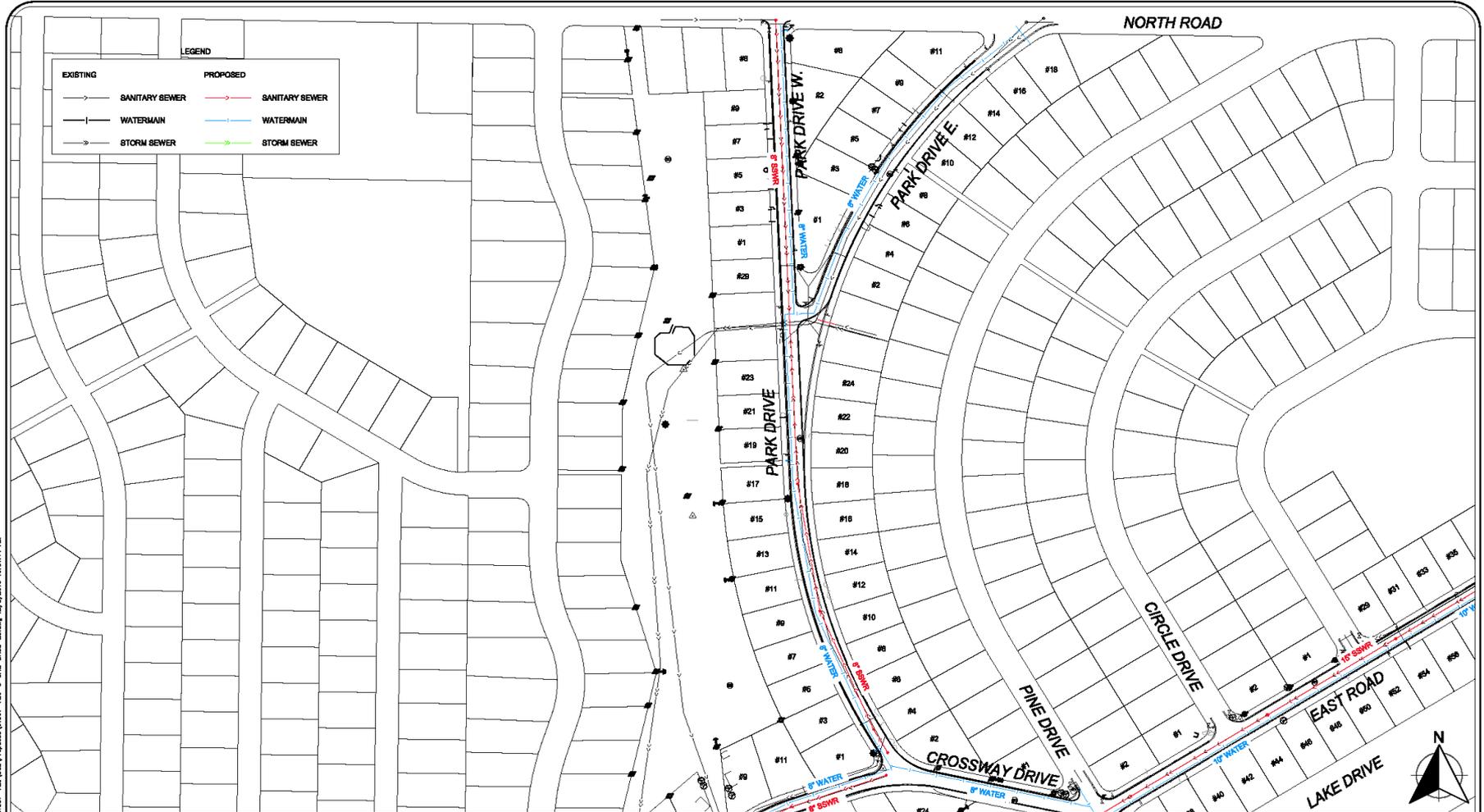
■ **Water Main Replacement**

- ❖ 8" and 12" PVC water main
- ❖ 1" HDPE water services replaced to the Right-of-Way
- ❖ New hydrants and gate valves

■ **Sanitary Sewer Replacement**

- ❖ 8" and 15" PVC sanitary sewer main
- ❖ 4" PVC sanitary sewer services replaced to the Right-of-Way
- ❖ Replace all sanitary sewer services that connect to Metropolitan Council sanitary lines

Proposed Improvements



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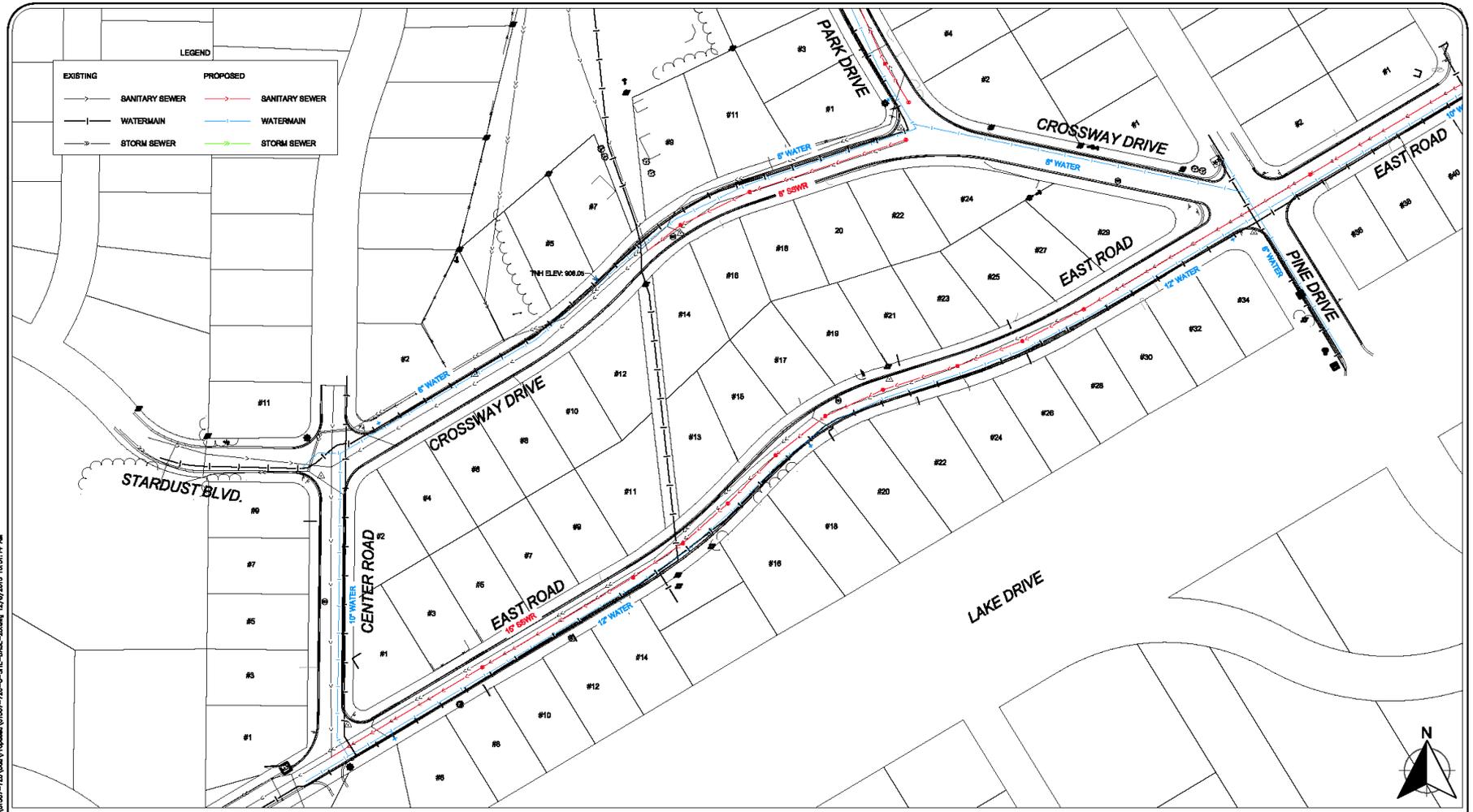
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 CIRCLE PINES, MINNESOTA

WSB Project No. 01507-720
 Scale = 100:1
 7/27/2017

Figure 6

Proposed Improvements



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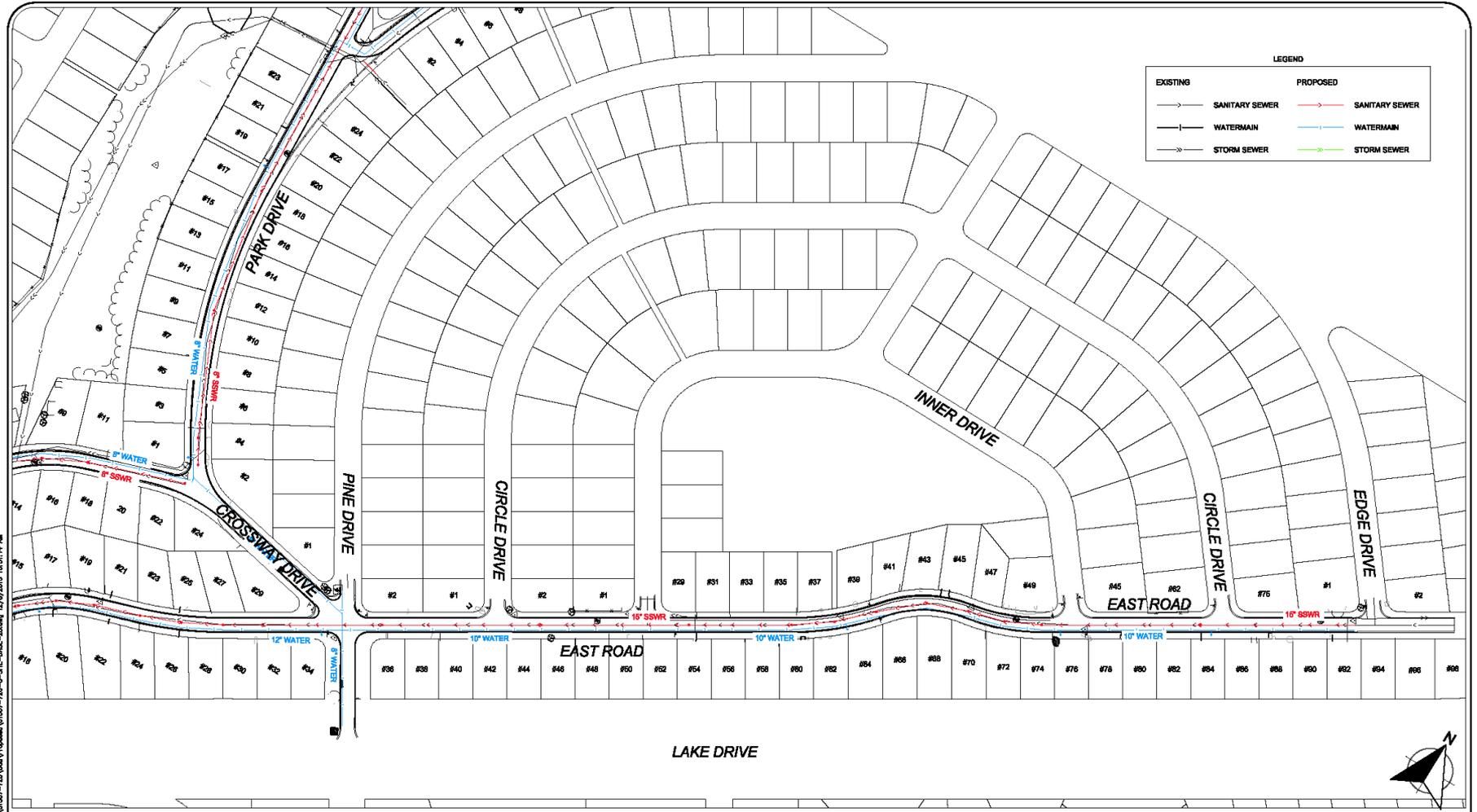
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 CONCEPT WATER & SANITARY SEWER PLAN

CIRCLE PINES, MINNESOTA

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Figure 7

Proposed Improvements



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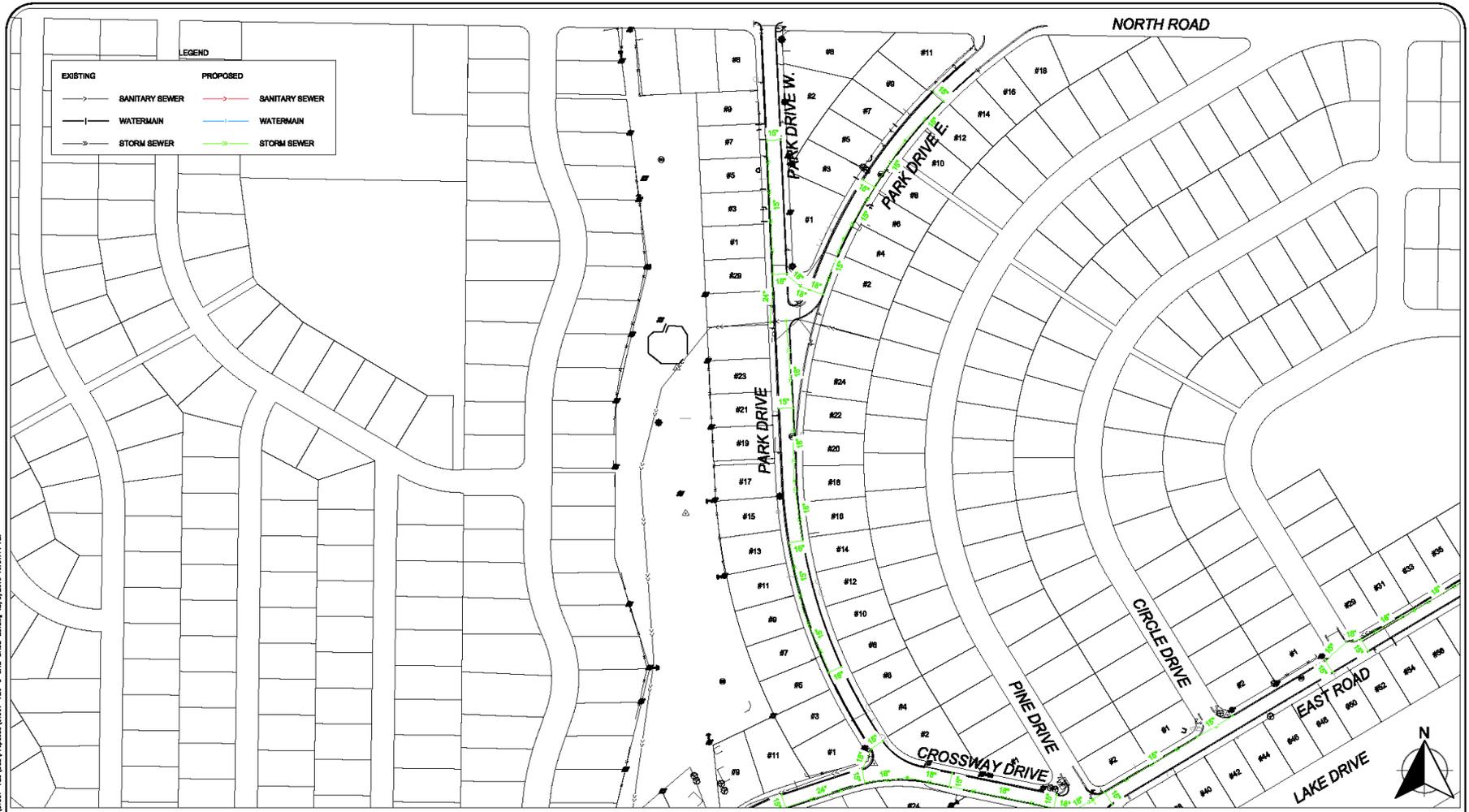
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Figure 8

Proposed Improvements



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 STORM SEWER PLAN

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Figure 9

Proposed Improvements



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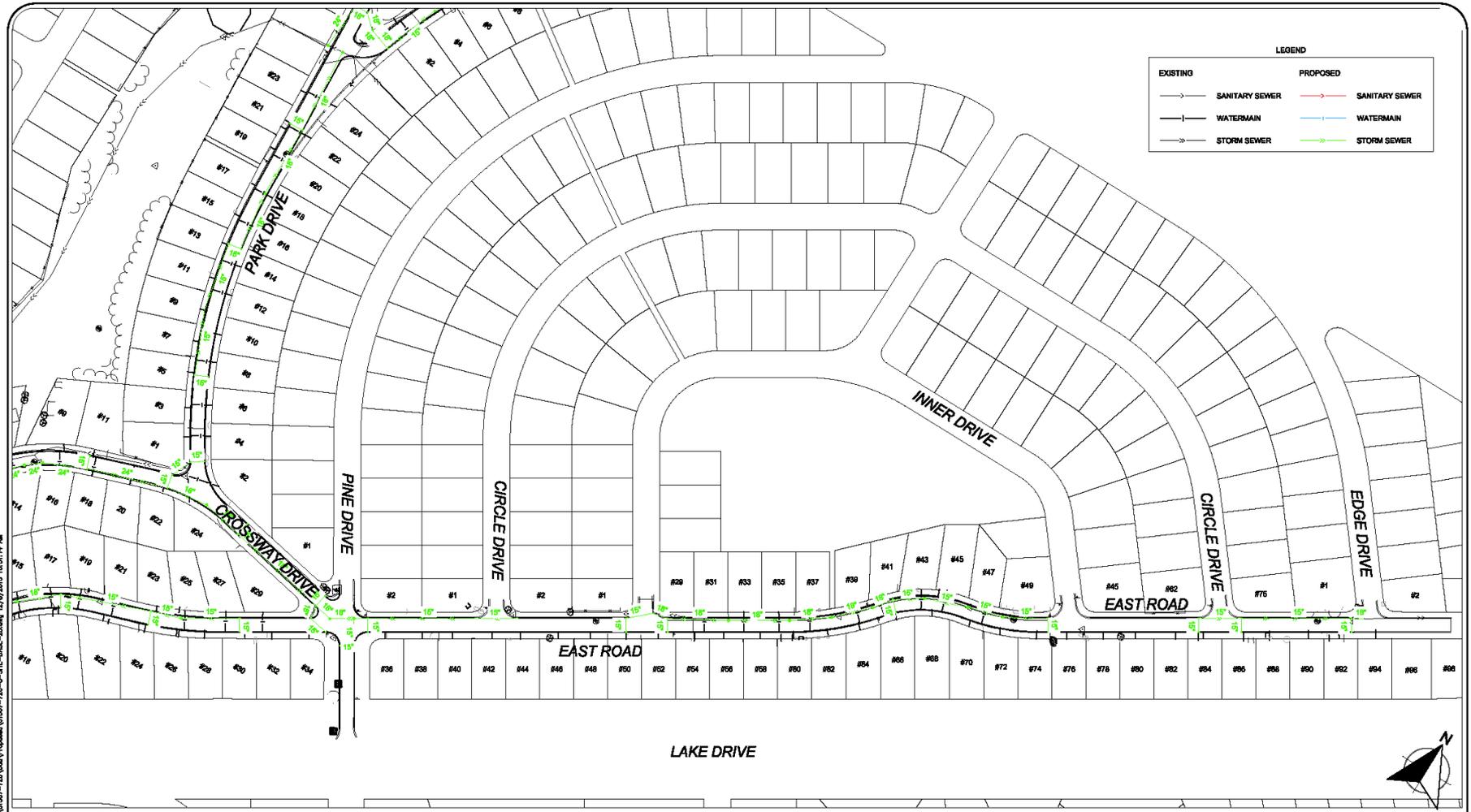
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 STORM SEWER PLAN

CIRCLE PINES, MINNESOTA

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Figure 10

Proposed Improvements



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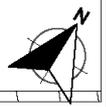
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Figure 11



Project Costs

Summary of Cost

	Total
Street Improvements	\$1,953,784
Sanitary Sewer Improvements	\$979,016
Water Main Improvements	\$982,603
Storm Sewer Improvements	\$1,025,399
Total	\$4,940,802

Assessment Policy and Funding

- Current Assessment Policy is a flat and equal rate
 - ❖ Current Street Reconstruct Assessment: \$4,380 per unit
 - ❖ 148 assessable properties
 - ❖ Proposed to increase to \$4,600 (5% increase)
- City Funds Remaining Street Improvements
- City Funds 100% of Utility Improvements

Project Assessment

Total Reconstruct Street Improvement Cost	\$1,953,784
Total Assessable Reconstruct Units	148
Assessment Rate	\$4,600
Total Assessment	\$680,800

**Assessment equates to \$585/yr for 10 years at 5% (estimated- contingent on bond sale) interest rate*

Assessable Units

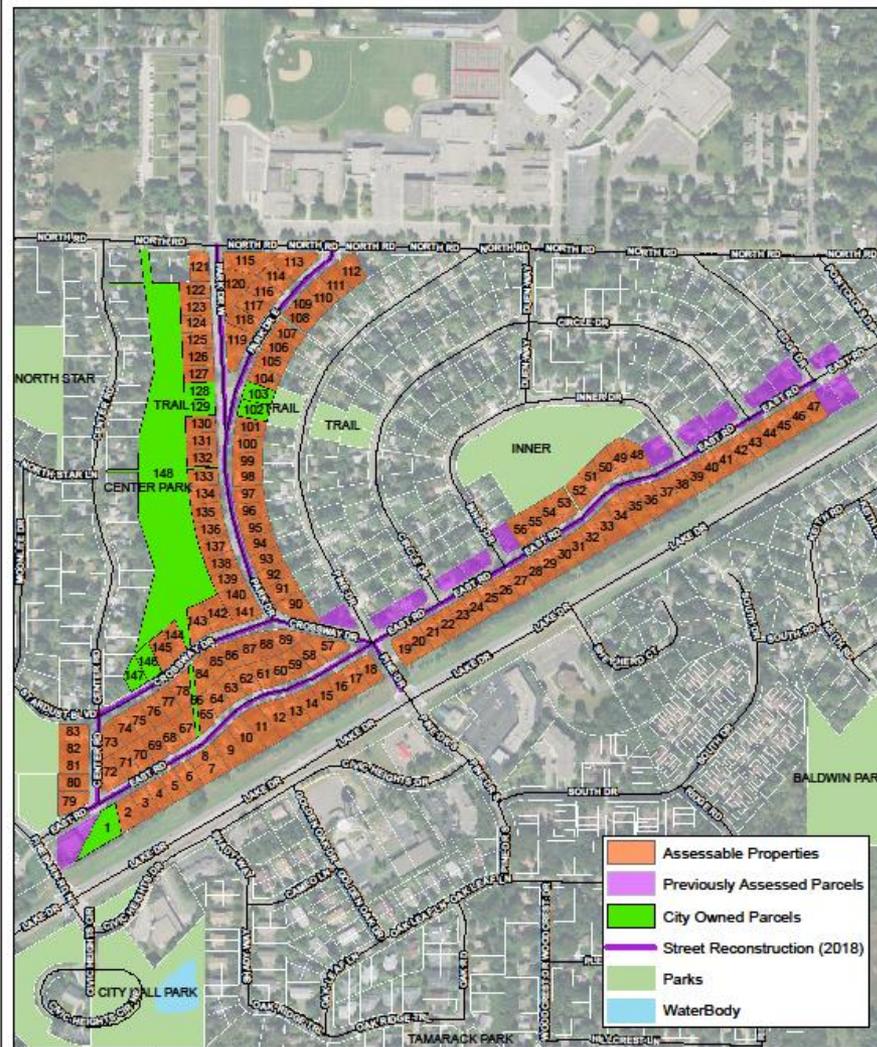
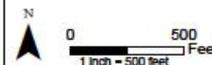


Figure 15 - Assessment Map
 2018 Street and Utility Improvement Project
 City of Circle Pines



Assessment Payment Methods

Option 1

- Pre-pay full assessment amount without interest to the City of Circle Pines in November 2018 (30 days after the assessment hearing-to be held in October 2018)

Option 2 (Full Reconstruct)

- Pay assessment with property taxes over a 10-year period at 5.0% interest (estimated, contingent on bond sale) starting in 2018

Partial Payment Options

- Pre-pay partial assessment amount without interest to the City of Circle Pines in November 2018
- Pay off remaining assessment amount in November of such year

Hardship Deferrals

Funding Scenario

Proposed Funding

Special Assessments	\$680,800
Street Reconstruction Fund	\$1,272,984
Sanitary Sewer Fund	\$979,016
Water Main Fund	\$982,603
Storm Water Fund	\$1,025,399
Total Funding	\$4,940,802

**Additional funding from State Aid Funding will also be utilized*

Proposed Schedule

- City Approves Engineering Proposal Apr, 2017
- Survey, Soil Borings, Feasibility May-Aug, 2017
- Public Informational Meeting July 27, 2017
- City Accepts Feasibility Study Aug 8, 2017
- Public Hearing/Authorize Plans Sept 12, 2017
- City Approves Final Plans Dec, 2017
- Receive Bids Jan, 2018
- Award Contract Mar, 2018
- Begin Construction May-Jun, 2018
- Substantial Completion Oct 2018
- Assessment Hearing Oct-Nov 2018
- Final Completion Spring 2019

Project Contact Information

- City of Circle Pines: 763-784-5898
- WSB & Associates
 - Eric Eckman– Project Manager: 763-512-5257

Questions and Comments?