

# Neighborhood Meeting 2016 Street & Utility Improvements

Presentation by  
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August 26, 2015





# City of Hopkins 2016 Street & Utility Improvements Project



# Tonight's Meeting

## 1. Presentation

- ❖ Background: Pavement Management, CIP
- ❖ Proposed Improvements
- ❖ Preliminary Assessments
- ❖ Project Schedule

## 2. Open House

- ❖ Staff will be on hand to answer any individual questions and take comments
- ❖ Boards around room for review



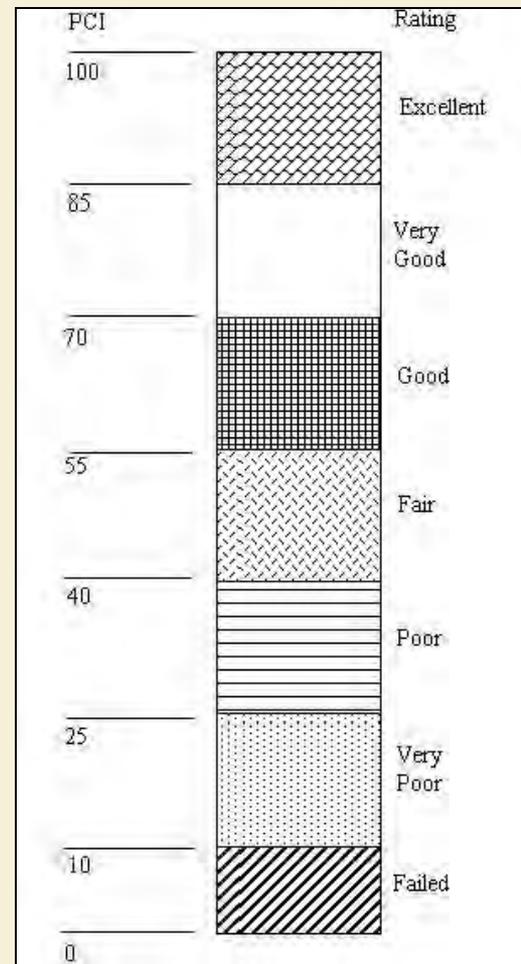
# PAVEMENT MANAGEMENT

- What is Pavement Management:
  - Systematic approach to maximizing street improvement dollars
    - 55 miles of streets
  - Utilizes
    - Pavement Condition Assessments
    - Computer software (ICON)



# PAVEMENT CONDITIONS

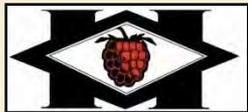
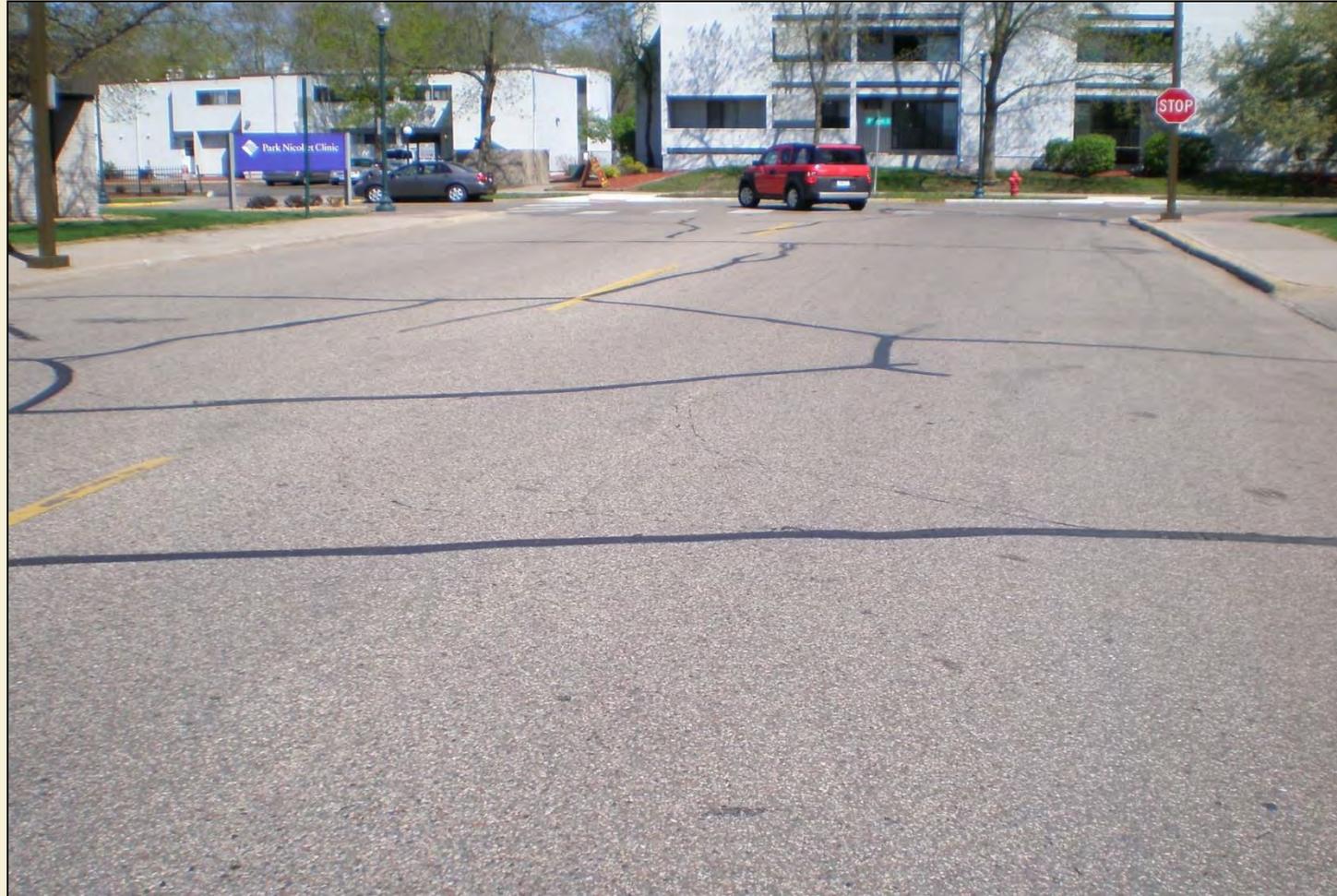
- Annual Inspections of 20% of the City
- Ratings Based on:
  - Type of Fault
  - Size of Fault
- Numerical Scale 0 – 100



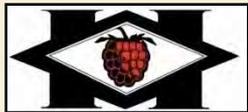
# RATING 95 – 100



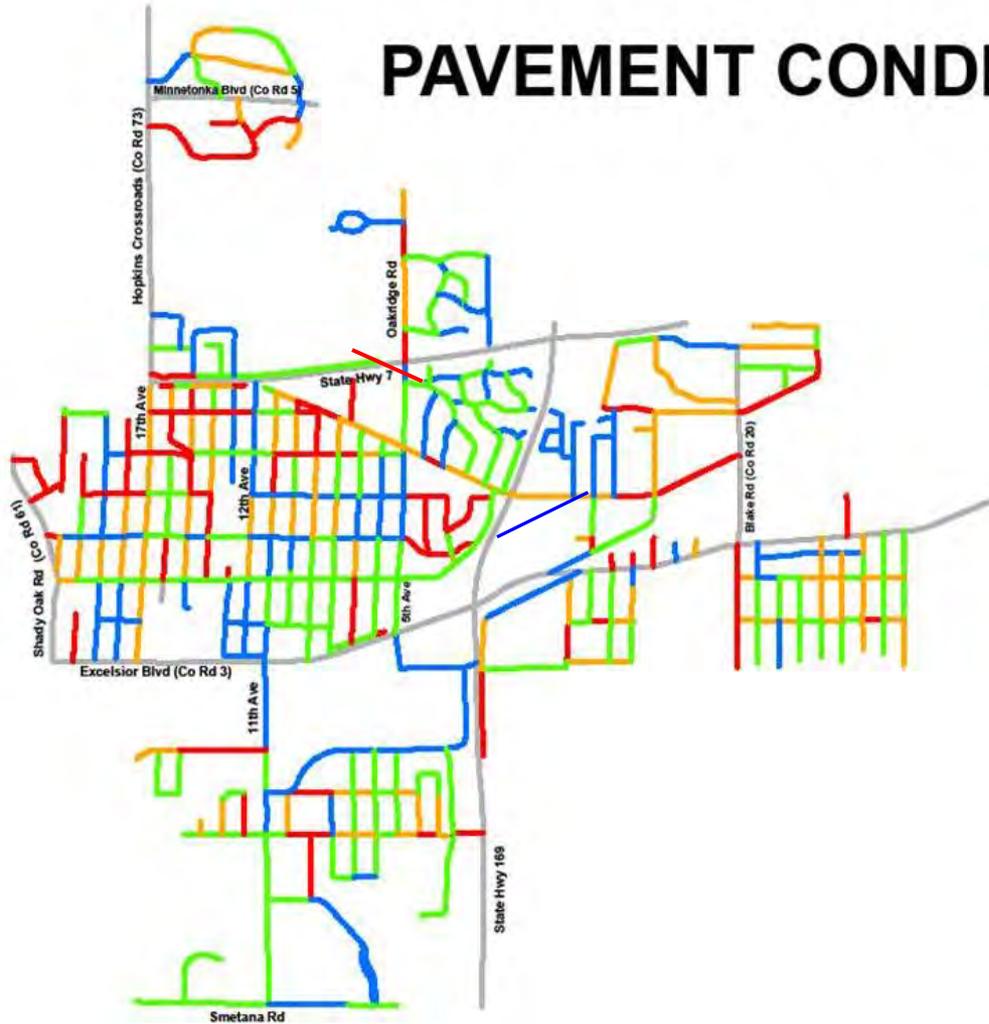
# AVERAGE STREET: RATING 65 – 70



# FAILED PAVEMENT: RATING < 30



# PAVEMENT CONDITION MAP



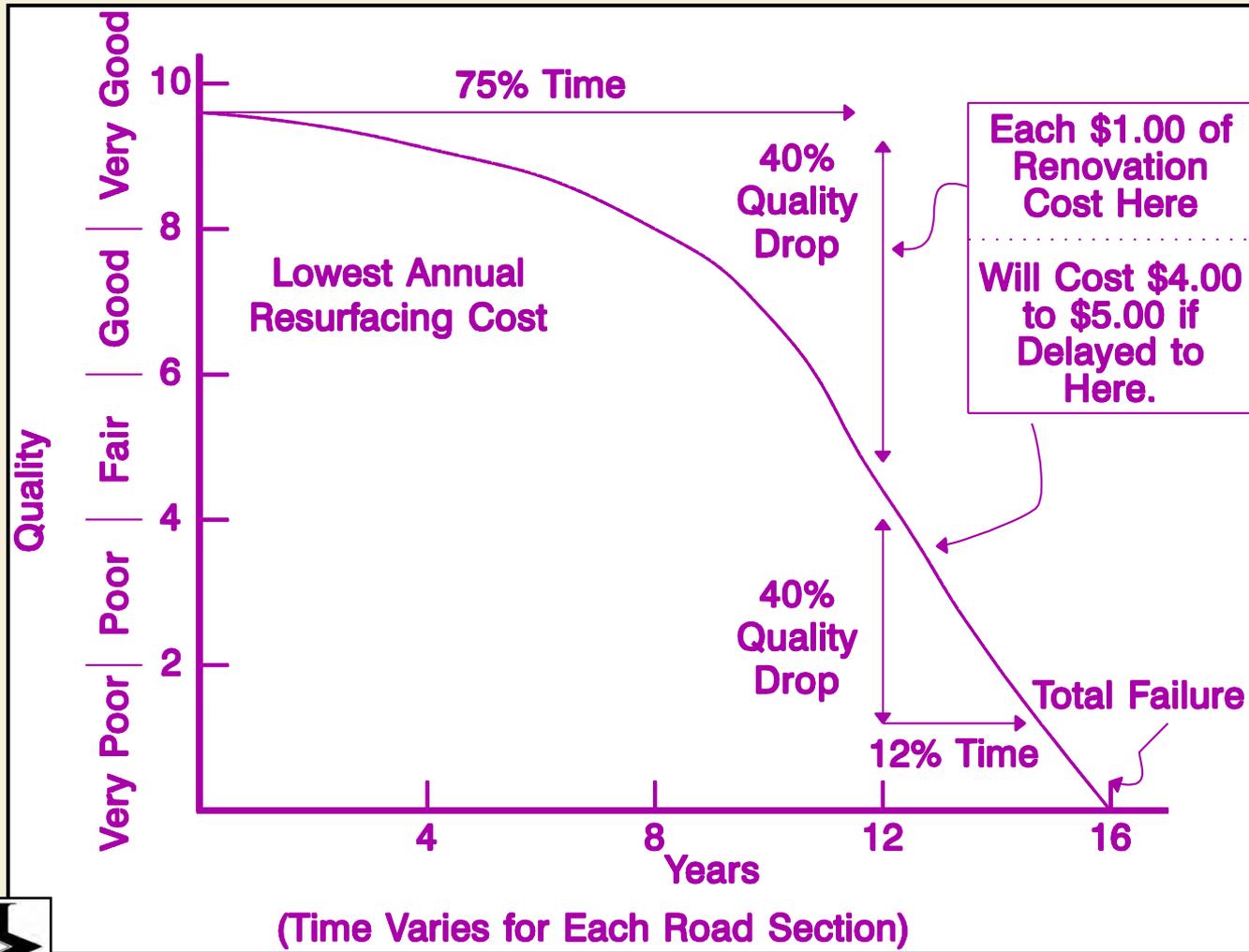
- Poor (1-35)
- Fair (36-55)
- Avg. (56-90)
- Good (91-100)
- State & County Roads



Last Update: 5-16-2008 RVH



# Rehabilitation Curve



# CAPITAL IMPROVEMENTS PLANNING

- Maintenance type depends on Condition
  - Good Condition – Seal Coat, Crack Seal
  - Fair Condition – Mill and Overlay
  - Poor Condition – Full Reconstruction
- Group streets by location
- Leverage County and State Projects
  - Shady Oak Road



# Streets in good to fair condition are....



cracksealed



patched



and....



Sealcoated



Streets in fair to poor condition are...milled



and overlaid



# Failing streets are reconstructed...



# Aggregate Street Base



# Bituminous Base Course



# Bituminous Wear Course



# Final Product



# Project Development Process

Pavement Management Ratings & Utility Conditions

Capital Improvements Plan (CIP)

**Preliminary Design / Feasibility Stage**

Final Design

Construction



# Questions & Discussion

## Pavement Management, CIP, & Project Development



# Scope of Improvements

- Determined through:
  - Utility & Drainage Needs
  - Pavement Conditions & Geotechnical Evaluation
  - Resident Input / Questionnaires



# Sanitary Sewer System

## 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> & 21<sup>st</sup> Avenues

- Existing 8" clay pipe sanitary sewer main, 60+ years old
- 10 of 36 questionnaires noted sanitary sewer issues
- Televising of sewer main noted many cracks, exposed soil, and groundwater infiltration
- Sanitary sewer main & service replacement
  - 8" clay replaced with 8" PVC
  - 4" to 6" services replaced with 6" PVC to property line



# Water System

18<sup>th</sup>, 19<sup>th</sup>, & 20<sup>th</sup> Avenues,  
2<sup>nd</sup> St N

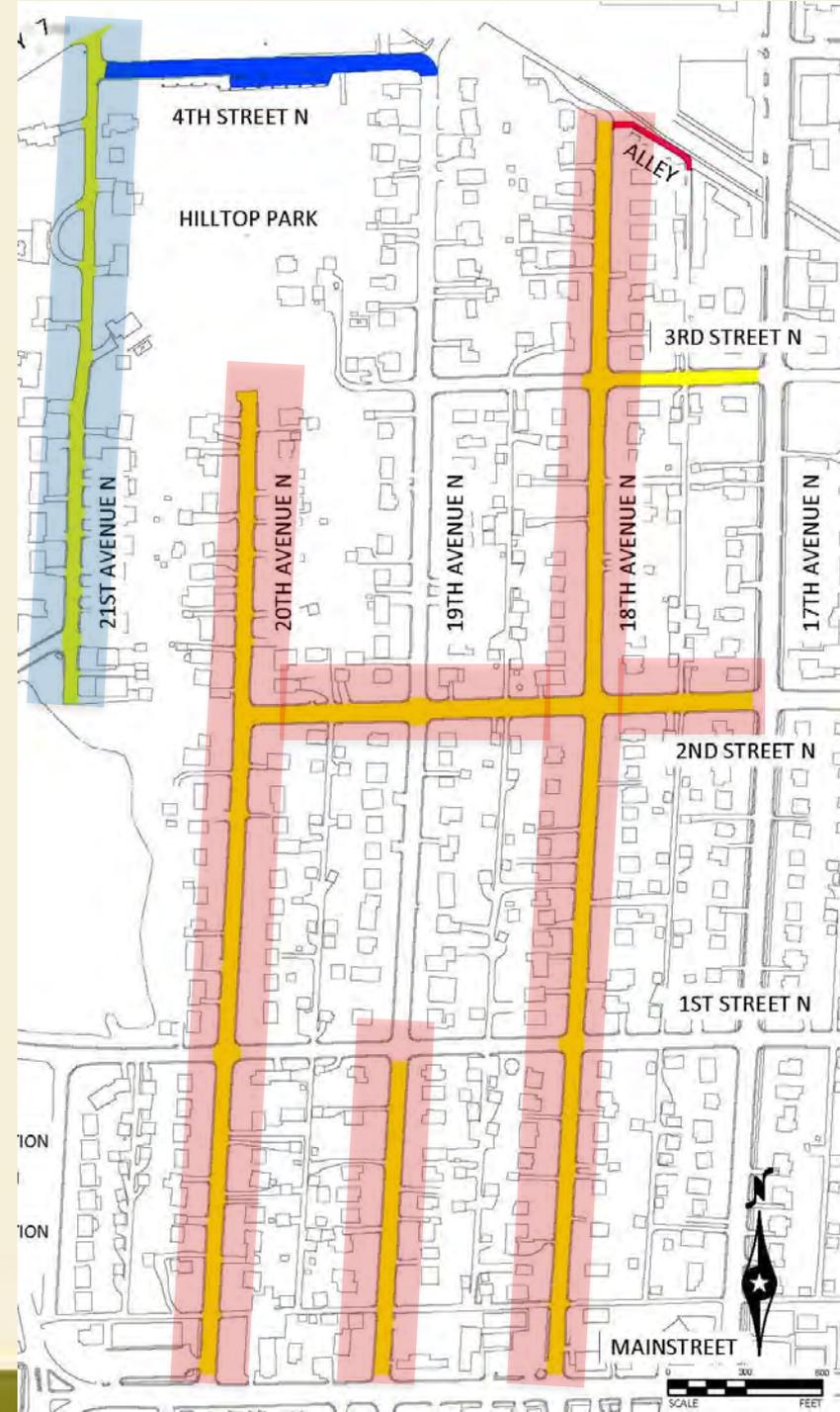
- Existing 6" cast iron watermain, 60+ years old
- Proposed watermain & service replacement
  - 6" cast iron main replaced with 8" ductile iron
  - ½" to 1" services replaced with 1" copper services from main to property line



# Water System

## 21<sup>st</sup> Avenue & 4<sup>th</sup> St N

- Existing 16" ductile iron trunk, about 40 years old
- No proposed water main replacement
- Proposed water service replacement
  - ½" to 1" services replaced with 1" copper services from main to property line



# Storm Sewer / Drainage

- Storm Sewer – Mix of concrete and plastic pipe, typically 12” diameter throughout neighborhood
  - Drainage issues of various severity reported throughout project area
  - New curb and gutter will correct many, but storm sewer replacement and addition is necessary in many cases



# Storm Sewer / Drainage

## 18<sup>th</sup> Avenue N

- Upsizing storm sewer main from 1<sup>st</sup> St N to 2<sup>nd</sup> St N
- Adding storm sewer (none exists today) from 2<sup>nd</sup> St N to 3<sup>rd</sup> St N
- Adding drainage inlets at 18<sup>th</sup> Ave N / 3<sup>rd</sup> St N intersection (none exist today)



# Storm Sewer System

## 19<sup>th</sup> Avenue N

- New system installed from 1<sup>st</sup> St N to 4<sup>th</sup> St N in 2007, no improvements necessary
- VERY flat street slopes from 1<sup>st</sup> St N to Mainstreet, no storm sewer exists
  - Adding storm sewer with mid-block drainage inlets from 1<sup>st</sup> St N to Mainstreet



# Storm Sewer / Drainage

## 20<sup>th</sup> Avenue N

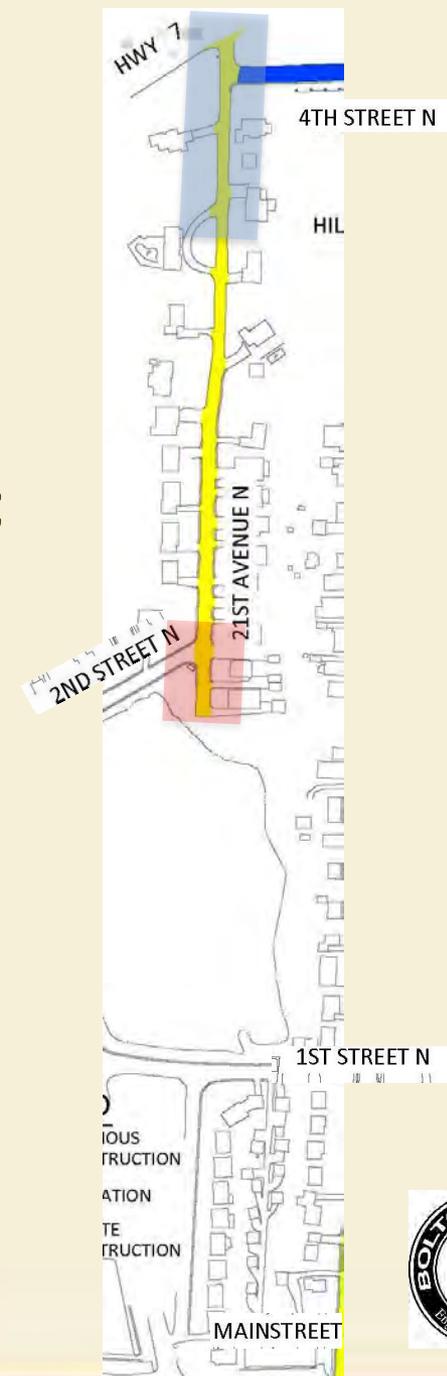
- Relatively good street slope drains roadway from 3<sup>rd</sup> St N to storm sewer at 1<sup>st</sup> St N
- VERY flat street slopes from 1<sup>st</sup> St N to Mainstreet, no storm sewer exists
  - Adding storm sewer with mid-block drainage inlets from 1<sup>st</sup> St N to Mainstreet



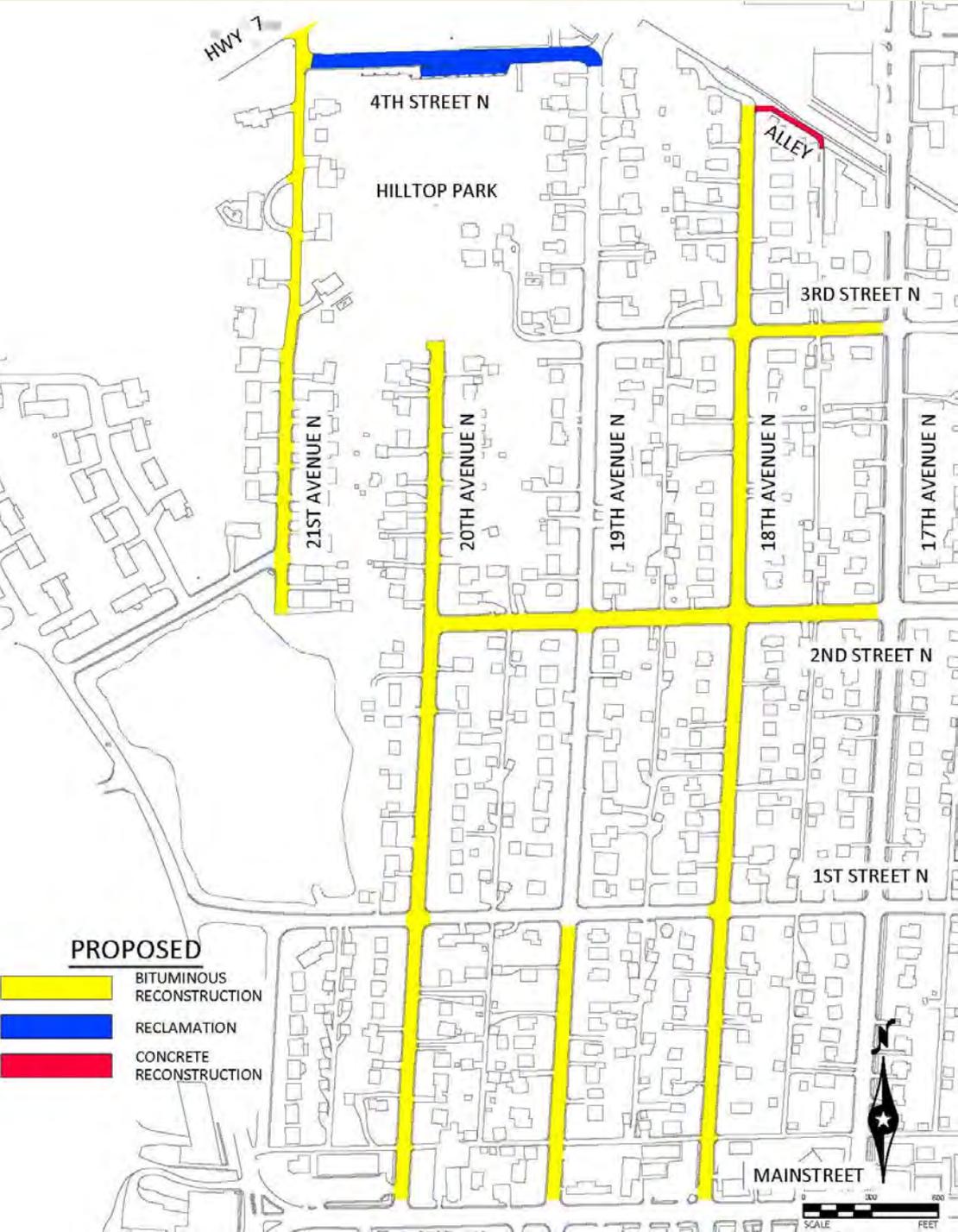
# Storm Sewer / Drainage

## 21<sup>st</sup> Avenue N

- Addressing nuisance/poor drainage conditions near 2<sup>nd</sup> St N and dead end; Adding storm sewer
- Adding curb along northerly half of roadway, funneling more water to storm sewer system
- Upsizing existing storm sewer from about 337/320 21<sup>st</sup> Ave N to Hwy 7



# City of Hopkins 2016 Street & Utility Improvements Project

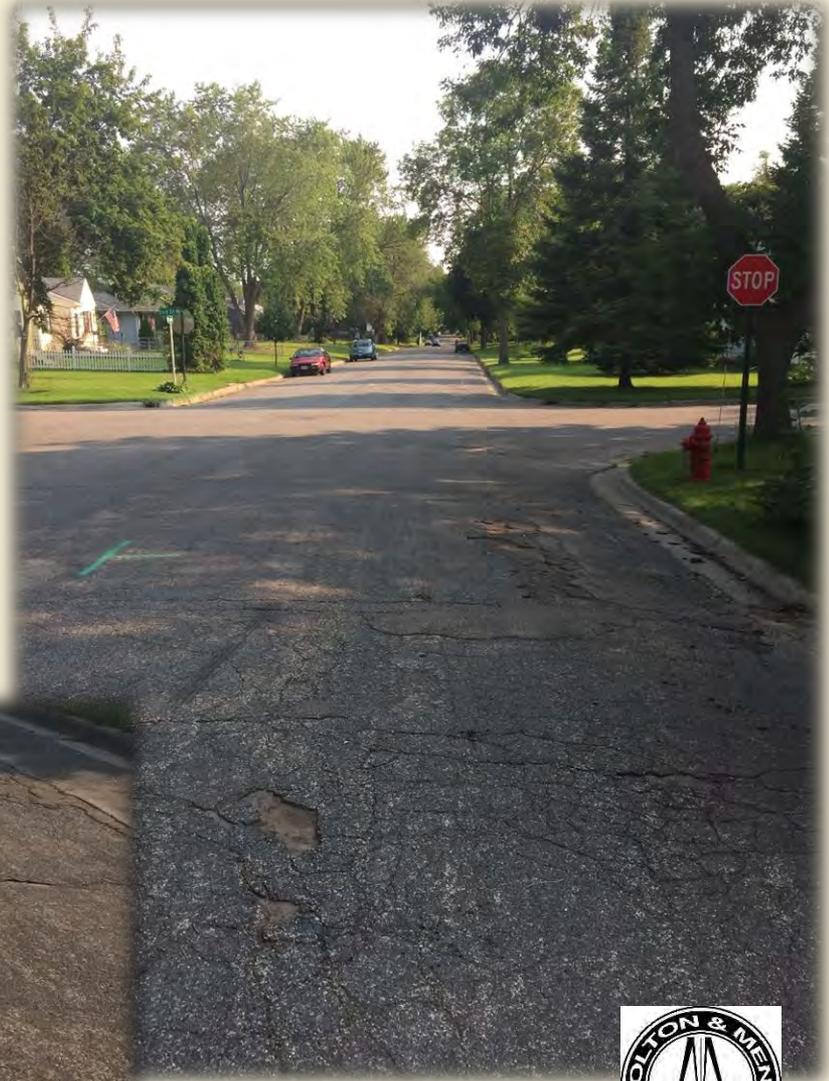


# Utility Improvements

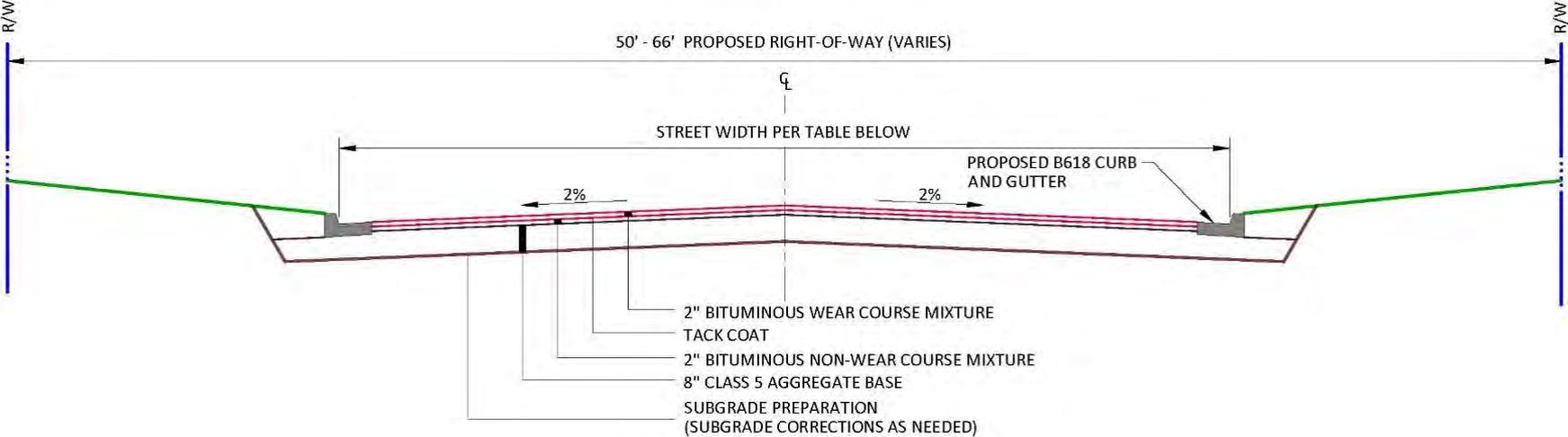
- 18<sup>th</sup>, 19<sup>th</sup>, & 20<sup>th</sup> Avenues
  - Watermain & individual service replacement
    - 6" cast iron main replaced with 8" ductile iron
    - ½" to 1" services replaced with 1" copper services from main to property line
  - Sanitary sewer main & service replacement
    - 8" clay replaced with 8" PVC
    - 4" to 6" services replaced with 6" PVC to property line



# Existing Pavement Conditions



# Proposed Pavement Reconstruction

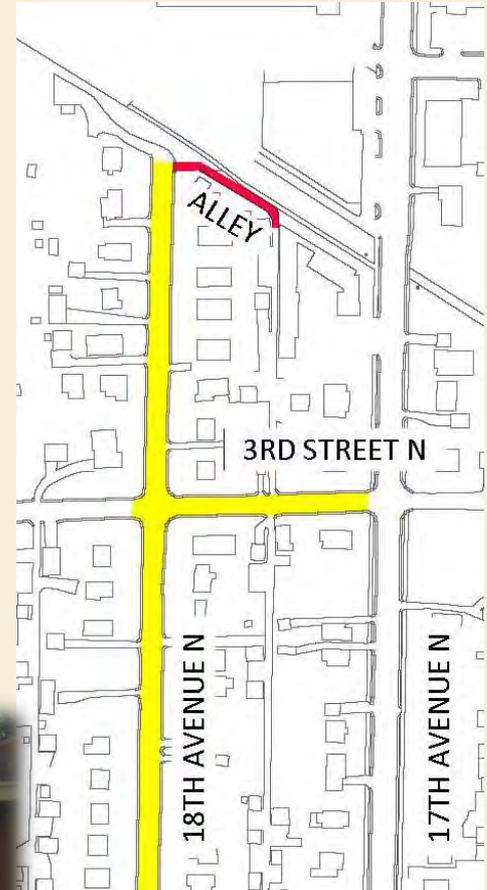


TYPICAL SECTION  
 2ND ST N, 3RD ST N, 18TH AVE N, 19TH AVE N, 20TH AVE N, & 21ST AVE N

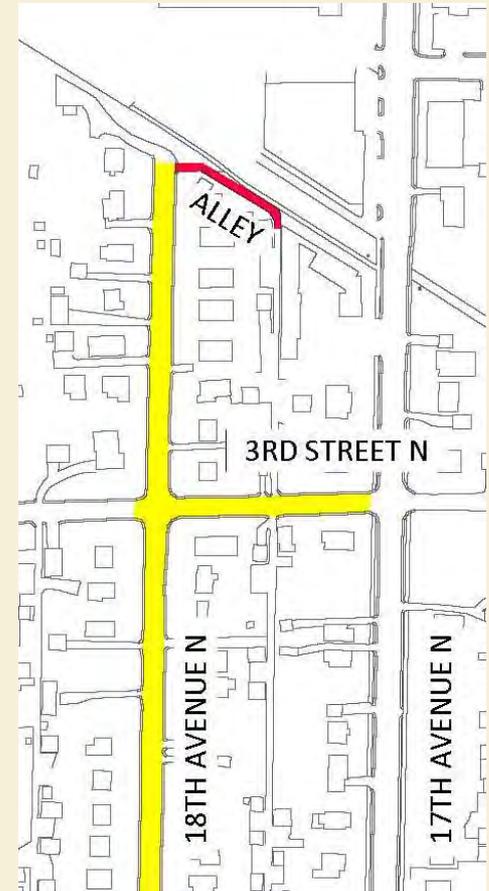
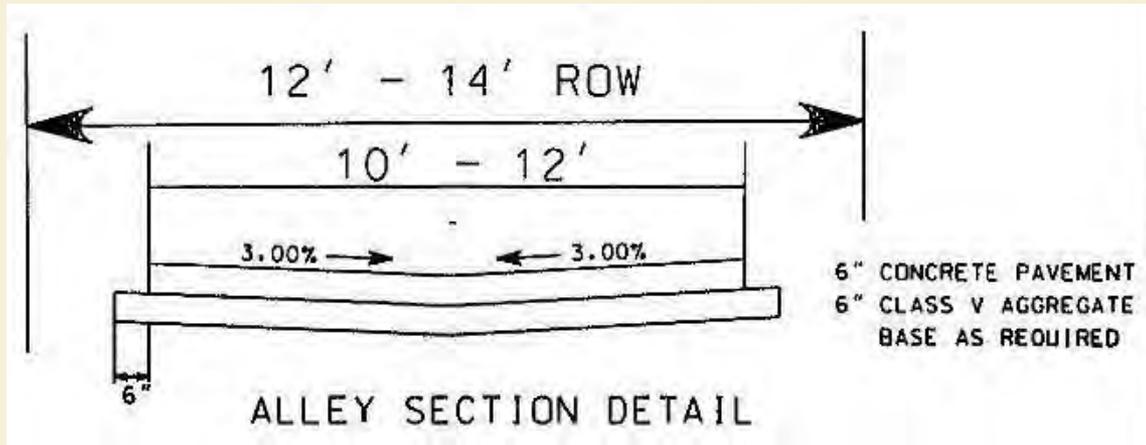
STREET WIDTH (CURB F-F)		
ROADWAY	EXISTING	PROPOSED
2ND ST N	35'	32'
3RD ST N	30'	30'
18TH AVE N	32'	32'
19TH AVE N	32'	32'
20TH AVE N	32'	32'
21ST AVE N	20' - 29'	28'



# Alley: 18<sup>th</sup> Ave N near Trail



# Alley: 18<sup>th</sup> Ave N near Trail



# Questions & Discussion Proposed Improvements



# Preliminary Estimated Costs

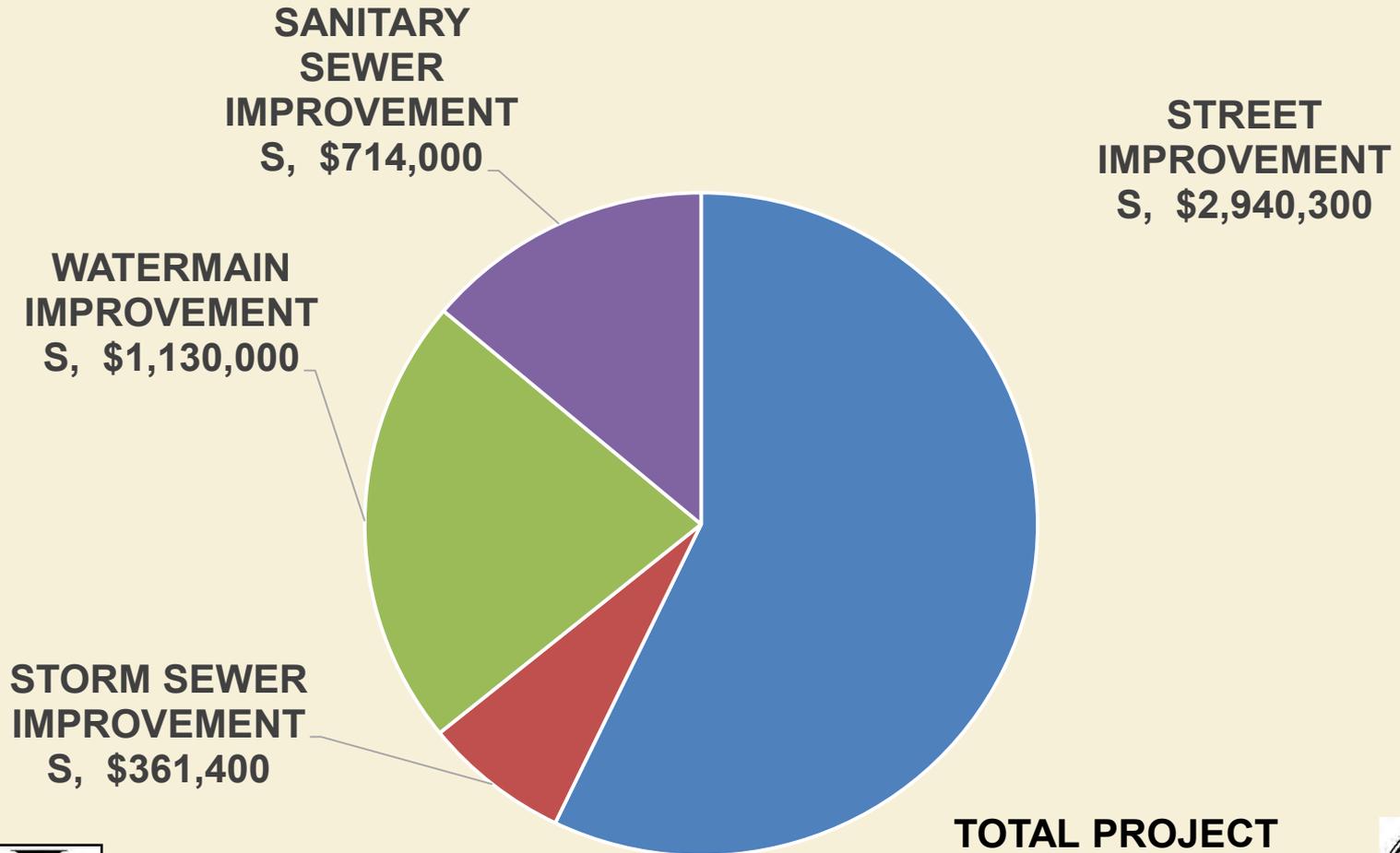
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STREET IMPROVEMENTS	\$	2,138,400
STORM SEWER IMPROVEMENTS	\$	262,800
WATERMAIN IMPROVEMENTS	\$	821,900
SANITARY SEWER IMPROVEMENTS	\$	519,600
STREET & UTILITY SUBTOTAL	\$	3,742,700
CONTINGENCIES (10%)	\$	374,000
ENGINEERING AND ADMINISTRATION (25%)	\$	1,029,000
<b>TOTAL ESTIMATED COST</b>	<b>\$</b>	<b>5,145,700</b>

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# Preliminary Estimated Costs



# Proposed Funding Sources

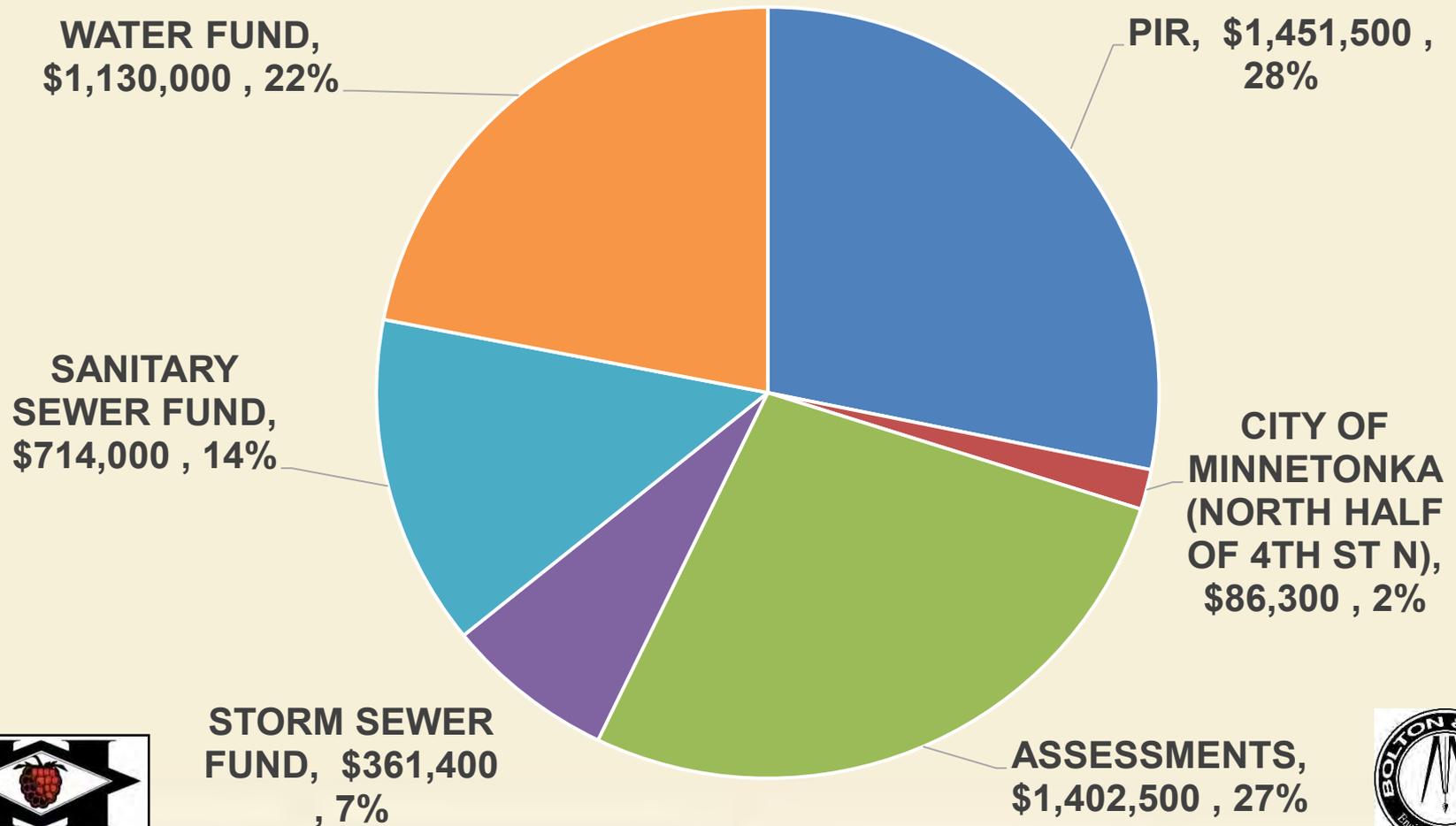
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PIR	\$	1,451,500
CITY OF MINNETONKA (NORTH HALF OF 4TH ST N)	\$	86,300
ASSESSMENTS	\$	1,402,500
STORM SEWER FUND	\$	361,400
SANITARY SEWER FUND	\$	714,000
WATER FUND	\$	1,130,000
<b>TOTAL</b>	<b>\$</b>	<b>5,145,700</b>

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# Proposed Funding Sources



# Special Assessments

1. Total Amount to be assessed per City Policy
2. Distribution of Assessments
  - Front Foot Basis
  - Unit or “Per Property” Basis
3. Assessment Caps
  - Front Foot Rate
  - Front Foot Length

# Amounts to Be Assessed, Per Policy:

- Streets & Avenues (Street Assessment)
  - 70% of the total street improvement cost
- Alleys (Street Assessment)
  - 80% of the total alley improvement cost
- Utility Mains
  - No assessments
- Utility Services (Utility Assessment)
  - 50% of service costs for residential (\$1,375)
  - 100% of private service costs for commercial

# Distribution of Assessment Amounts

- Avenues
  - Total amount to be assessed distributed by FRONT FOOT of properties along the Avenue
- Streets
  - Total amount to be assessed per UNIT (per property) one block north and one block south of the street



# Distribution of Assessment Amounts

- Alley
  - Total amount to be assessed per UNIT (per property) served or potentially served by the alley



# Amounts to Be Assessed, Per Caps:

- 2016 Front Foot Street Assessment Rate Cap
  - **\$83.79 / front foot** along Avenues
  - No cap for commercial properties
  - UNIT assessments will not apply above and beyond front footage rate cap
- Front Footage Cap
  - Front footage counted up to **125 feet**
  - No cap for commercial properties

# Example 1: “Group N”



## ■ 18<sup>th</sup> Ave Front Footage Street Assessment

$$\frac{\$838,300 \text{ 18}^{\text{th}} \text{ Ave N Cost}}{4,592.08' \text{ Total Footage}} = \$127.79 / \text{FF}$$

## ■ Assessment Cap = \$83.79 / FF

## ■ 3<sup>rd</sup> St Unit Street Assessment

➤ Already at cap, will not apply

## ■ 2<sup>nd</sup> St Unit Street Assessment

➤ Already at cap, will not apply

## ■ For a 50-foot-wide property, the street assessment would be: $\$83.79 \times 50' = \$4,189.50$



# Example 1: “Group N”



## ■ 18<sup>th</sup> Ave Utility Assessments

Water Service Cost = \$1,500

Sewer Service Cost = \$1,250

Total Utility Service Cost = \$2,750

Utility Assessment = 50% = \$1,375

➤ Total Assessment = \$5,564.50  
for the example 50-foot-wide property



# Example 2: “Group I” & “Group J”

- 2<sup>nd</sup> St Unit Street Assessment

$$\frac{\$332,800 \text{ 2}^{\text{nd}} \text{ St N Cost}}{129 \text{ Property Units}} = \$1,805.89 / \text{Unit}$$

- Utility Assessments

  - None

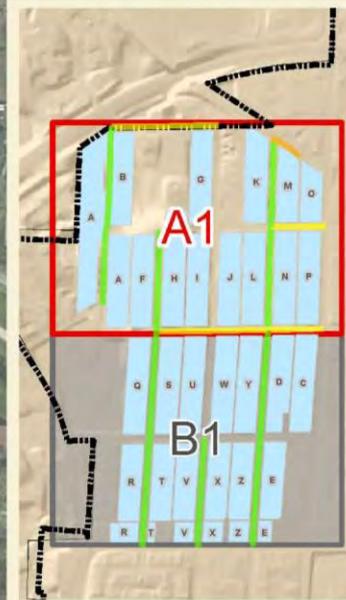
- Total Assessment**

  - **\$1,805.89 / Unit**





Location Map



Legend



Assessment\_Parcels.TOTAL\_PROP

- \$1,000 - 2,500
- \$2,500 - \$4,500
- \$4,500 - \$6,500
- \$6,500 - \$8,500
- \$8,500+

Project Roads

- Avenue
- Street
- Alley

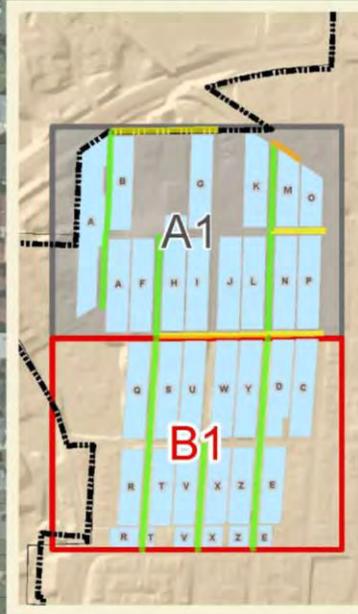
- CityLimits
- Map Book Index



Source: Hennepin County, City of Hopkins, ESRI Imagery



Location Map



Legend

- Assessment\_Parcels.TOTAL\_PROP**
    - \$1,000 - 2,500
    - \$2,500 - \$4,500
    - \$4,500 - \$6,500
    - \$6,500 - \$8,500
    - \$8,500+
  - Project Roads**
    - Avenue
    - Street
    - Alley
  - CityLimits
  - Map Book Index
- 0 150 Feet  
Source: Hennepin County, City of Hopkins, ESRI Imagery

# Questions & Discussion

Assessment Distribution, Calculation



# Proposed Project Schedule

- October 20<sup>th</sup> – Conduct Public Hearing, Order Final Plans
- December / January – Present Final Plans, Authorize Advertisement for Bid, Open Bids, Set Public Assessment Hearing Date
- February 16, 2016 (tentative) – Public Assessment Hearing, Adopt Final Assessments, Award Bid
- Late April - Fall 2016: Construction



# CONSTRUCTION...WHAT TO EXPECT

- Late April – Fall, 2016 construction
- Contractor sequencing in each block
  - 4 weeks of utility construction
  - 3 weeks of street construction
  - 2 - 3 weeks of boulevard restoration, tree planting, cleanup
- Water Shutdowns
- Temporary Access Restrictions
- Newsletters / Notices
- Full Time Construction Observer & On-Site Contact



# Questions & Discussion Schedule, Construction



# Project Contacts

## Nate Stanley, P.E. – Hopkins City Engineer

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- 952-548-6356

## Mike Waltman, P.E. – Project Manager

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