

**Potential Infrastructure Projects to Be Paid for with Sales Tax Revenue**

<b>Project Type</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Street Maintenance	Complete reconstruction of Church Street, from 4th Street to Washington, to include sidewalks, storm sewer, asphalt, curb and gutter to city standards	\$905,000
Street Maintenance	Complete reconstruction of Village street from 4th Street to 1st Street, including 1st Street to Village Terrace, to include sidewalks, storm sewer, asphalt, curb and gutter to city standards	\$588,000
Street Maintenance	Complete rebuild of W 1st Street from 24/40 heading west to dead end (2 blocks) to include sidewalks, storm sewer, asphalt, curb and gutter to city standards	\$360,000
Street Maintenance	Improvement of all streets between 5th Street to Washington Street and 24/40 to Delaware Street	\$4,660,000
Street Maintenance	Maintenance of wearing surface of approximately 26 center lane miles of City street, utilizing various techniques depending on condition, to include: 1) 2 inch asphalt mill and overlay; 2) Chip seal; 3) Modified Quick Set Aggregate; and 4) Reclamite Asphalt Rejuvenator. Note: 1 mile has an average of 14,435 sq. yards.	Mill and Overlay: \$10.00 per sq. yd. Chip Seal: \$2.50 per sq. yd. Modified Quick Aggregate: \$3.77 per sq. yd. Reclamite Asphalt Rejuvenator \$0.80 per sq. yd.
Bridge		
Bridge Repair	Replace 4th Street Bridge Deck	\$500,000
Bridge Replacement	Replace Church Street Bridge	\$425,000
Streets		
Streets	Construction of 14th Street from US 24-40 to East Street	\$5,000,000
Streets	Construction of East Street extension, from Washington to 4th Street	\$2,550,000
Streets	Laming Road Extension	\$1,400,000
Utility		
Utility	Waterline to Industrail Park	
Utility	Sanitary Sewer Trunk Line from Wastewater Treatment Plant to Industrial Park	\$2,850,000
Utility Maintenance	Water tower inspections, maintenance, and repairs	\$50,000
Utility	Smiley Rd and Hatchell Rd Area Booster Station	\$150,000
Utility	NW Water Tower (Smiley Rd and Hatchell Rd Area)	\$1,000,000
Core Community		
Library	Library	\$2.8 m - \$3.3 m
Indoor Recreation Center	Indoor Rec. Center	\$5,000,000
Trails ??		KDOT TA 80/20

# CITY OF TONGANOXIE, KANSAS

## Church Street Improvements

Complete Reconstruction of Church St., from 4th Street to Washington.

Includes Sidewalks, Storm Sewer, Asphalt, and Curb & Gutter.

2650 Linear Feet - Estimated Cost of \$905,000



BG Project No. 16-1001L

Preparation Date: November 14, 2016

# CITY OF TONGANOXIE, KANSAS

## Village Street Improvements

Complete Reconstruction of Village St., from 4th Street to 1st Street, including 1st Street to Village Terrace.

Includes Sidewalks, Storm Sewer, Asphalt, and Curb & Gutter.

1725 Linear Feet - Estimated Cost of \$588,000



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Preparation Date: November 14, 2016

# CITY OF TONGANOXIE, KANSAS

## W. 1st Street Improvements

Complete Reconstruction of W. 1st Street from Chieftain Rd/24-40 heading west to dead end (2 blocks).

Includes Sidewalks, Storm Sewer, Asphalt, and Curb & Gutter.

1050 Linear Feet - Estimated Cost of \$360,000



Not to Scale

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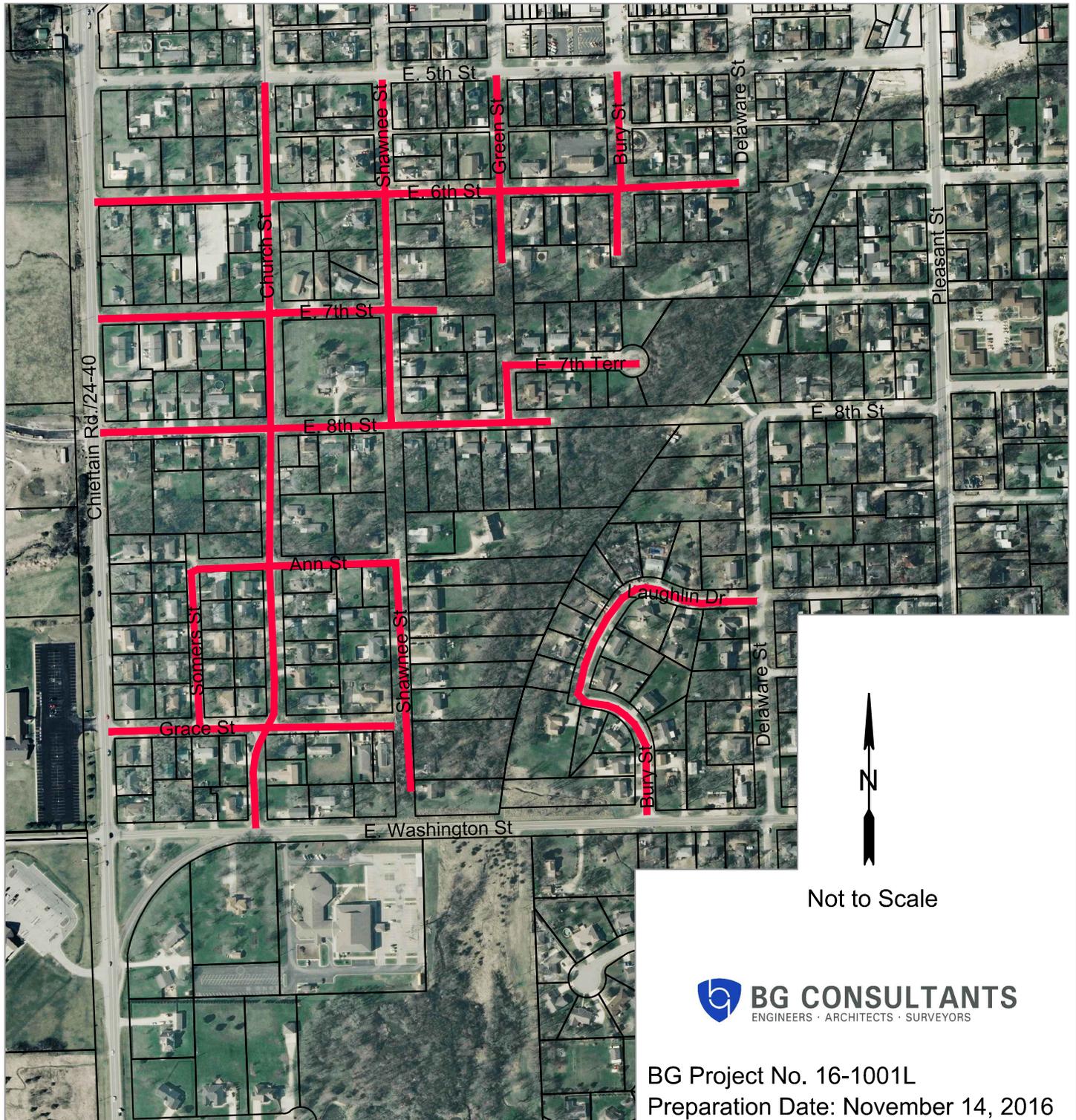
BG Project No. 16-1001L

Preparation Date: November 14, 2016

# CITY OF TONGANOXIE, KANSAS

## "All Streets"

Improvement of All Streets between 5th Street to Washington Street and 24/40 to Delaware Street. 13,650 Linear Feet - Estimated Cost of \$4,660,000



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# CITY OF TONGANOXIE, KANSAS

## 4th Street Bridge Deck

Replacement or Repair of the 4th Street Bridge Deck.

Estimated Replacement Costs:

Estimated Repair Costs: \$500,000



E. 4th St



Not to Scale



BG Project No. 16-1001L

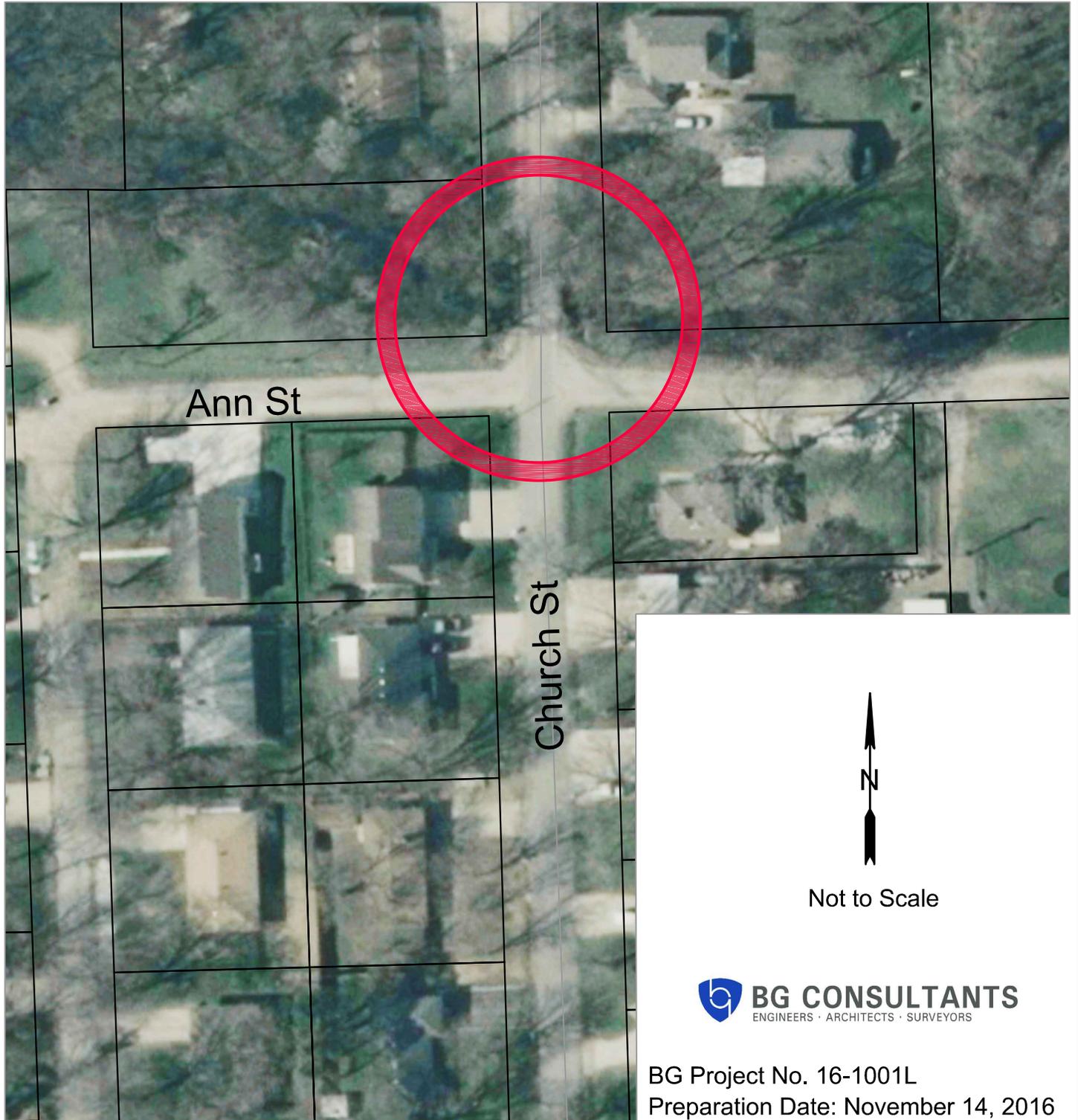
Preparation Date: November 14, 2016

# CITY OF TONGANOXIE, KANSAS

## Church Street Bridge

Complete Replacement of the Church Street Bridge.

Estimated Replacement Costs: \$425,000



BG Project No. 16-1001L

Preparation Date: November 14, 2016

# CITY OF TONGANOXIE, KANSAS

## Construction of 14th Street and southern East Street Extension

Construction of a New 14th Street from US 24/40 to East Street (Future).

Estimated Cost of \$3,000,000



Not to Scale

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Preparation Date: November 14, 2016

# CITY OF TONGANOXIE, KANSAS

## Construction of East Street Extension and Rebuild/Realignment of East Street from 7th to Washington.

Estimated Cost of Road: \$2,000,000

Estimated Bridge Cost: \$550,000

Total Estimated Cost: \$2,550,000



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# CITY OF TONGANOXIE, KANSAS

## Construction of Laming Road Extension

Construct Laming Road South From Us 24/40 to E. 4th St.

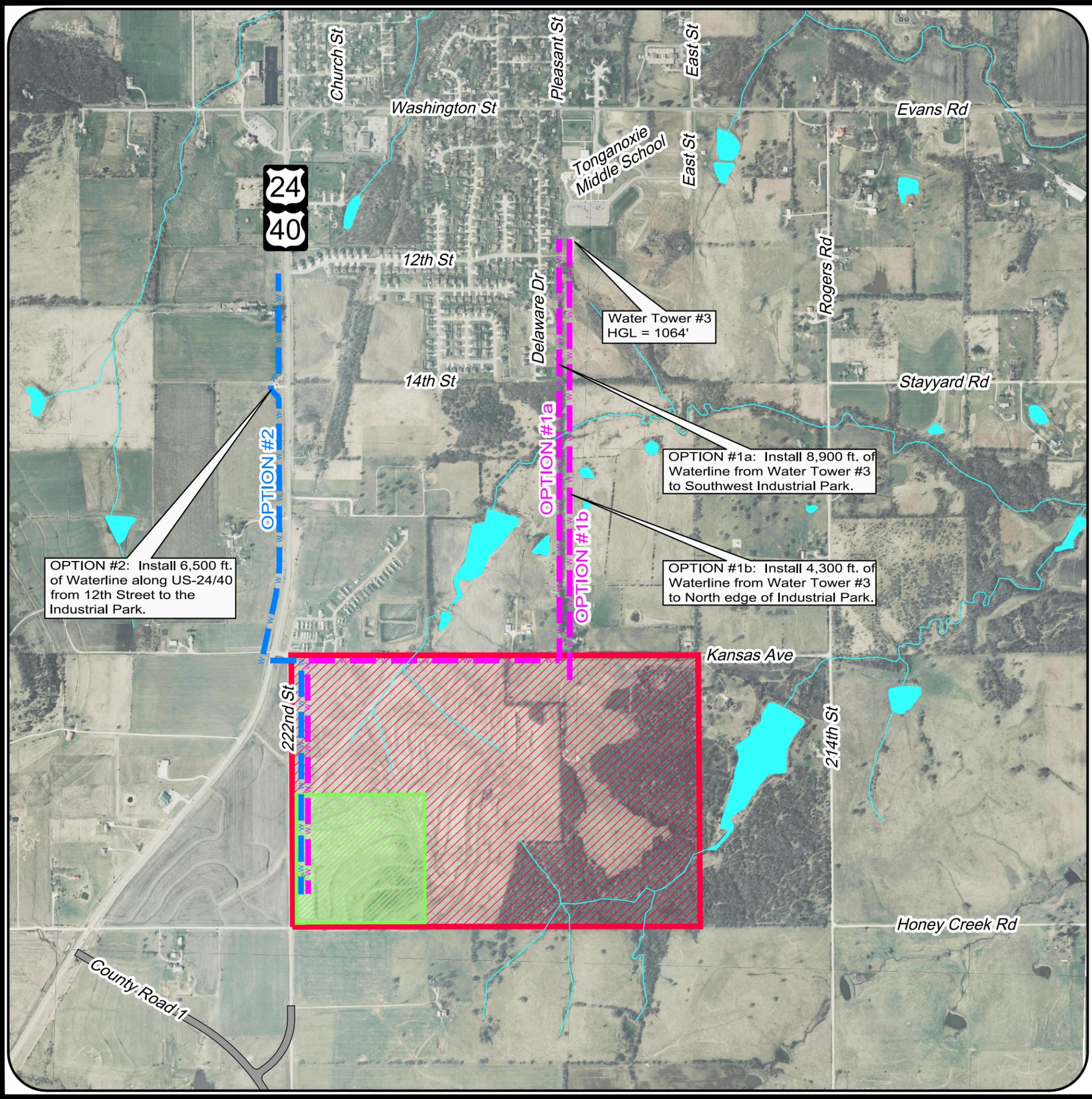
Estimated Cost of \$1,400,000



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Preparation Date: November 14, 2016



**OPTION #1a - (Finish Floor Elev. = 925)**

Waterline Size (Diameter)	Service Flow (gpm @ ±50 psi)	Maximum Flow (gpm @ 20 psi)	Estimated Project Cost	
			City Forces	Contracted
* 4" PVC	60	130	\$ 175,000.00	\$ 235,000.00
* 6" PVC	175	375	\$ 235,000.00	\$ 315,000.00
* 8" PVC	375	800	\$ 295,000.00	\$ 390,000.00
* 10" PVC	700	1425	\$ 415,000.00	\$ 550,000.00
12" PVC	1100	2300	\$ 470,000.00	\$ 625,000.00

NOTES: 1. Estimated Project Costs for work completed by City Forces have been estimated at approximately 75% of the cost of Contracted work.  
2. Property Acquisition Costs are not included within these estimates.

**OPTION #1b - (Finish Floor Elev. = 925)**

Waterline Size (Diameter)	Service Flow (gpm @ ±50 psi)	Maximum Flow (gpm @ 20 psi)	Estimated Project Cost	
			City Forces	Contracted
* 4" PVC	60	130	\$ 90,000.00	\$ 120,000.00
* 6" PVC	175	375	\$ 120,000.00	\$ 160,000.00
* 8" PVC	375	800	\$ 150,000.00	\$ 200,000.00
* 10" PVC	700	1425	\$ 205,000.00	\$ 275,000.00
12" PVC	1100	2300	\$ 235,000.00	\$ 315,000.00

NOTES: 1. Estimated Project Costs for work completed by City Forces have been estimated at approximately 75% of the cost of Contracted work.  
2. Property Acquisition Costs are not included within these estimates.

**OPTION #2 - (Finish Floor Elev. = 925)**

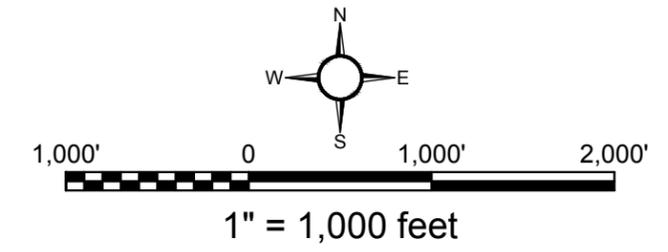
Waterline Size (Diameter)	Service Flow (gpm @ ±50 psi)	Maximum Flow (gpm @ 20 psi)	Estimated Project Cost	
			City Forces	Contracted
* 4" PVC	25	120	\$ 130,000.00	\$ 175,000.00
* 6" PVC	50	315	\$ 175,000.00	\$ 230,000.00
* 8" PVC	50	550	\$ 215,000.00	\$ 285,000.00

NOTES: 1. Estimated Project Costs for work completed by City Forces have been estimated at approximately 75% of the cost of Contracted work.  
2. Property Acquisition Costs are not included within these estimates.

\* = Assuming a 2,000 gpm required fire demand, waterlines marked with an asterisks would require the City have a cross connection with Suburban Water to provide fire protection capacity.

**LEGEND**

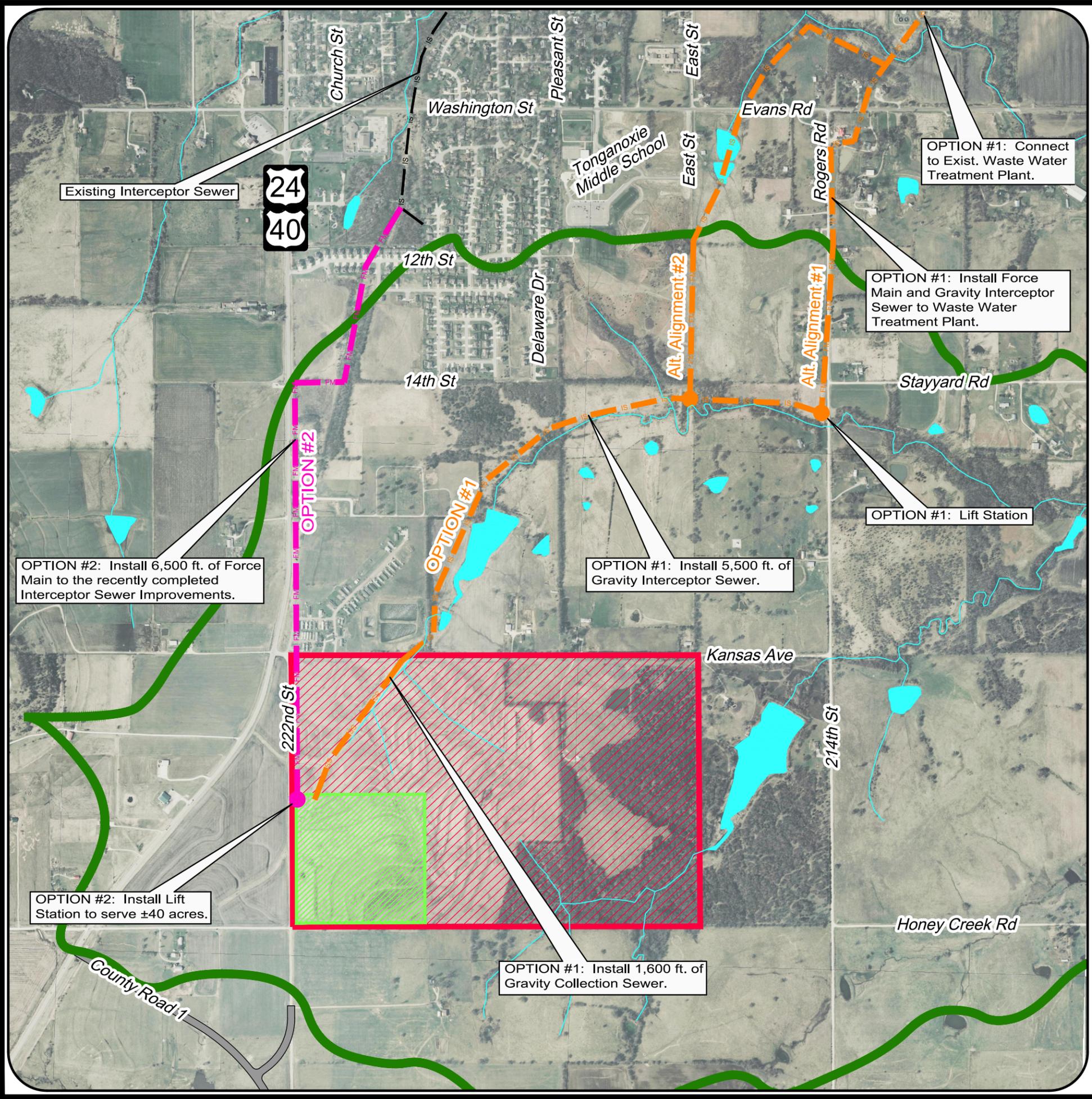
- Tonganoxie Industrial Park Boundary
- ±40 acres within the Industrial Park
- Option #1a and #1b Concept Alignment
- Option #2 Concept Alignment



*Industrial Park Improvements*  
*Waterline Analysis*



Project #: 11-1001L  
Date: 08-08-11



OPTION #1	
Sewer Infrastructure	Estimated Project Cost
- 1,600' of 8" Collection Sewer in Industrial Park - 5,500' of Interceptor Sewer north of Industrial Park - Lift Station with 1,650' Force Main @ Rogers Rd - 2,900' of Interceptor Sewer directly to WWTP	\$2,500,000

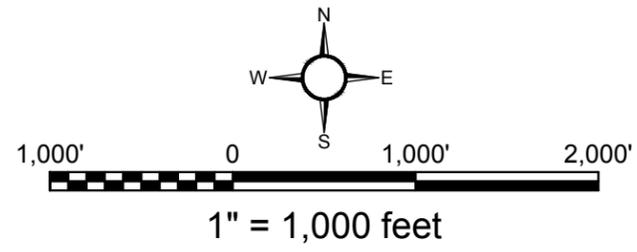
NOTE: Property Acquisition Costs are not included within these estimates.

OPTION #2				
Force Main (Diameter)	Minimum Flow (gpm)	Maximum Flow (gpm)	Estimated Project Cost	
			City Forces	Contracted
3"	45	135	\$ 210,000.00	\$ 280,000.00
4"	80	275	\$ 350,000.00	\$ 400,000.00
6"	175	800	\$ 390,000.00	\$ 440,000.00

- NOTES:
1. Minimum Flow is based upon the KDHE required minimum velocity of 2 fps.
  2. Maximum Flow is based on a maximum estimated pressure of 150 psi.
  3. Estimated Project Cost include wet well and pumps for lift station.
  4. Property Acquisition Costs are not included within these estimates.

### LEGEND

- Tonganoxie Industrial Park Boundary
- ±40 acres within the Industrial Park
- Watershed Boundary (Ridge Line)
- Existing Interceptor Sewer
- Option #1 Sanitary Sewer Concept Alignment
- Option #1 Interceptor Sewer Concept Alignment
- Option #1 Force Main Concept Alignment
- Option #2 Force Main Concept Alignment



# Industrial Park Improvements Sanitary Sewer Analysis



Project #: 11-1001L  
Date: 08-08-11