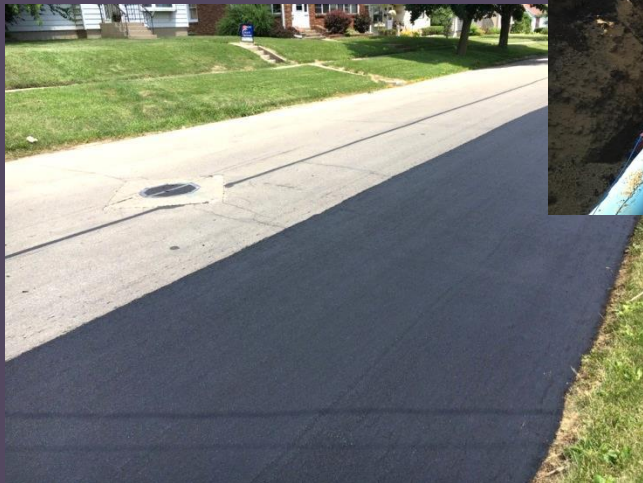


City of Freeport

Transportation & Utility Overview



Current City Stats

Transportation System

- MFT – 90 Local Miles & 26.5 FAU Miles
- STU – 26.5 Miles (requires 20% Match)
- 1 Vehicular & 3 Pedestrian Bridges

Current Programs:

- Crack Sealing
- Microsurfacing
- Mill and Overlay
- Reconstruction
- Patching

Annual \$630,00 Funding = 95 Year Life Cycle

Water Distribution

- 137.5 Miles of Main
- 1572 Valves
- 1187 Hydrants
- 6 Wells
- 1 Filtration Plant
- 2 Water Towers

Sewer Collection

- 126.5 Miles of Sewer
- 2827 Manholes
- 9 Lift Stations
- 1 Treatment Plant

Current Programs:

- Completing Phase B
- Completing Big Four
- Responding to Emergencies
- Replacing Equipment

**Annual \$538,000 Funding = 235 Year
Replacement of Existing Depreciated Assets**

Transportation



Aging Roadways Waste Money



- Damage to public and private vehicles
- Increase accidents
- Reduce Public Works efficiency
- Prolong hazardous winter conditions
- Increase crime and lower investment
- Increase fuel consumption
- Depreciates other routes faster



**OVER 10% OF CITY STREETS
QUALIFY FOR RECONSTRUCTION**

**2 BRIDGES IN NEED OF
REPLACEMENT**

2016 – Year Review

Section No. 16-00000-00-GM

2016 Mill & Overlay Program		2016 Crack Sealing Program		2016 Micro-Surfacing Program	
Engineering	\$0.00	Engineering	\$0.00	Engineering	\$0.00
Construction	\$443,462.44	Construction	\$38,532.52	Construction	\$103,490.90
Inspection	\$0.00	Inspection	\$0.00	Inspection	\$0.00
Testing	\$1,655.40	Testing	\$0.00	Testing	\$0.00
Total Cost	\$445,117.84	Total Cost	\$38,532.52	Total Cost	\$103,490.90
Total Length (FT)	6,934	Total Length (FT)	24,959	Total Length (FT)	11,457
Cost/FT	\$64.19	Cost/FT	\$1.54	Cost/FT	\$9.03

Covered roughly 73 Blocks or 7.2% of the City

Total = \$587,141.26 of which \$432,485.81 came from MFT

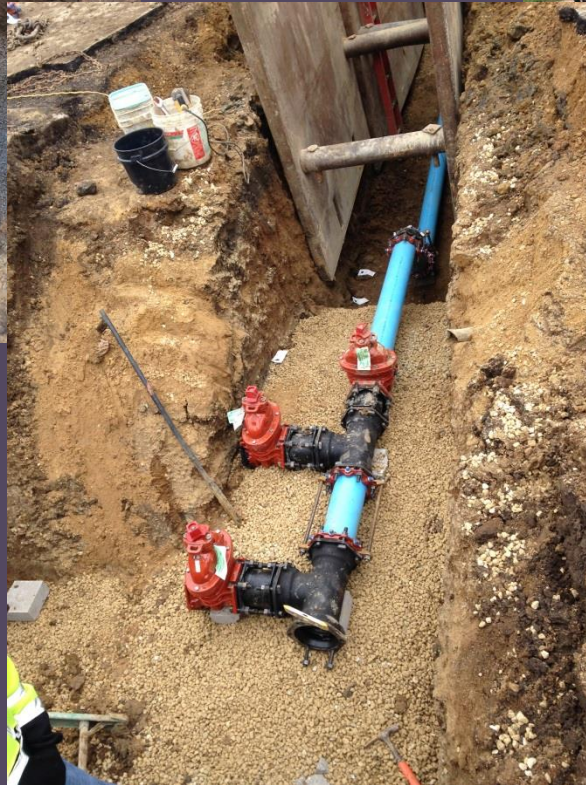
Transportation – 50 Year Plan

MFT/City Revenue	\$ 72,350,000	% of Budget
Reconstruct 15 Miles of Street	\$ 23,100,000	32.0%
Replace Hancock Ave. Bridge	\$ 5,700,000	7.9%
Replace Gladewood Bridge	\$ 1,600,000	2.2%
Mill & Overlay 55 Miles of Street	\$ 23,400,000	32.3%
Micro-Surface the entire City	\$ 6,600,000	9.1%
Crack Seal the entire City	\$ 750,000	1.0%
Patching	\$ 3,650,000	5.0%
Contingency	\$ 2,150,000	3.0%
Engineering	\$ 5,400,000	7.5%
Total Cost	\$ 72,350,000	100%

Transportation– 5 Year Plan

MFT/City Revenue	\$ 7,235,000	% of Budget
Reconstruct 1.5 Miles	\$ 2,310,000	32.0%
Mill & Overlay 5.5 Miles	\$ 2,340,000	32.3%
Micro-surface 11.5 Miles	\$ 660,000	9.1%
Patching as Needed	\$ 250,000	3.5%
Crack Sealing 10 Miles	\$ 75,000	1.0%
Public Works Materials	\$ 115,000	1.6%
Bridge Replacements	\$ 730,000	10.0%
Engineering	\$ 540,000	7.5%
Contingency	\$ 215,000	3.0%
Total Cost	\$ 7,235,000	100%

Requires \$607,000 in additional annual funding





Aging Utilities Waste Money

- Additional pumping & treating expenses
- Emergency repairs and overtime
- Accelerated depreciation on existing infrastructure
- Loss of service to customers
- Damage to other utilities and public and private property



AVERAGE WATER LOSS = 23%

INFLOW / INFILTRATION = 137%

2016 – Year Review

Phase B Water Improvement Project

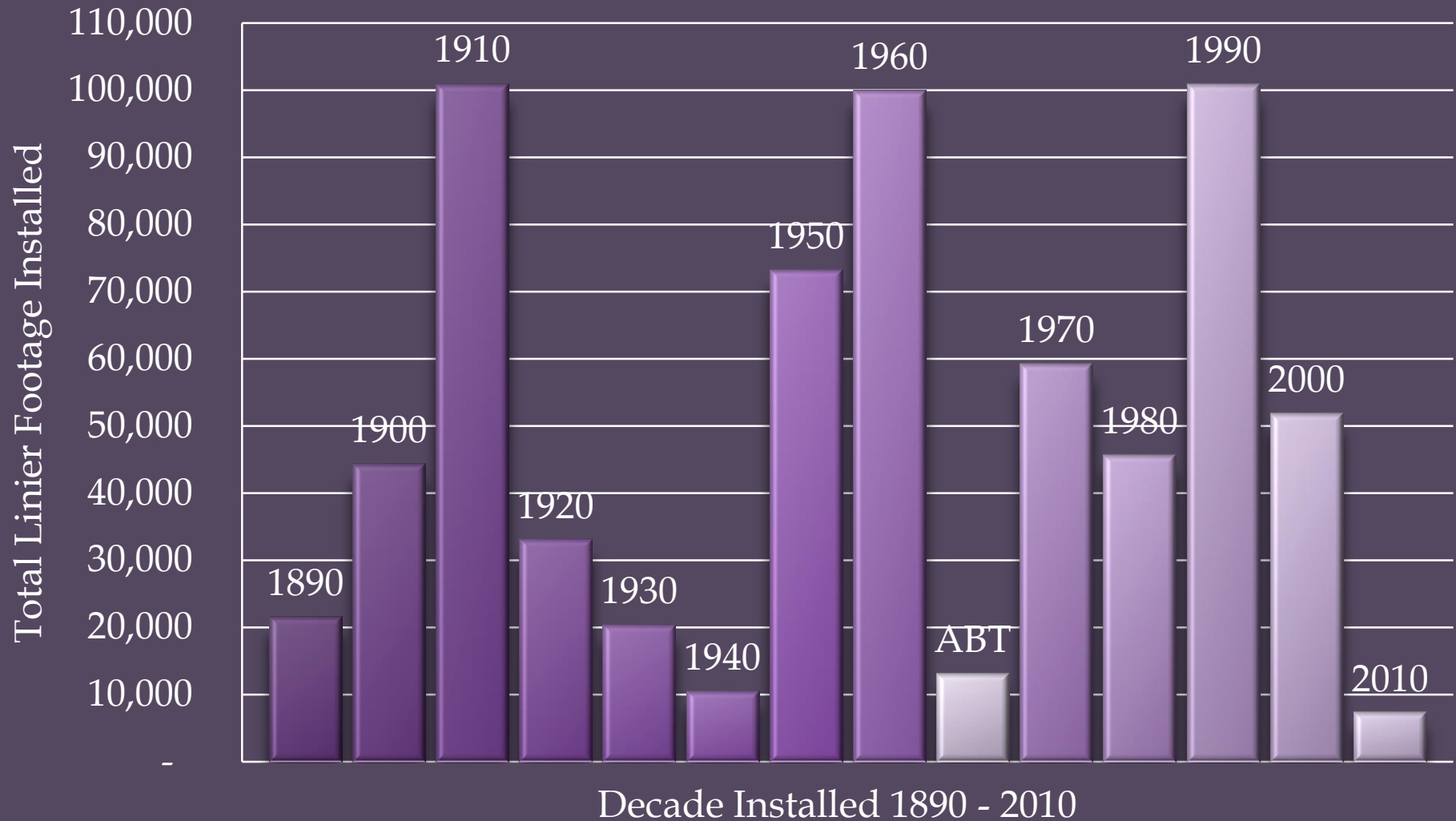
Contract 1		Contract 2		Contract 3	
Engineering	\$102,632.64	Engineering	\$172,026.3	Engineering	\$308,481.06
Construction	\$1,233,990.87	Construction	\$1,165,802.27	Construction	\$3,711,395.66
Inspection/Testing	\$40,953.59	Inspection/Testing	\$68,643.80	Inspection/Testing	\$123,093.46
% Complete	98%	% Complete	98%	% Complete	95%
Total Cost	\$1,377,577.10	Total Cost	\$1,406,472.37	Total Cost	\$4,142,970.17
Total Length (FT)	5,174.5	Total Length (FT)	8,651.5	Total Length (FT)	15,538.5
Cost/FT	\$266.22	Cost/FT	\$162.56	Cost/FT	\$266.62

Replaced 5.6 Miles of Watermain and 432 Water Services

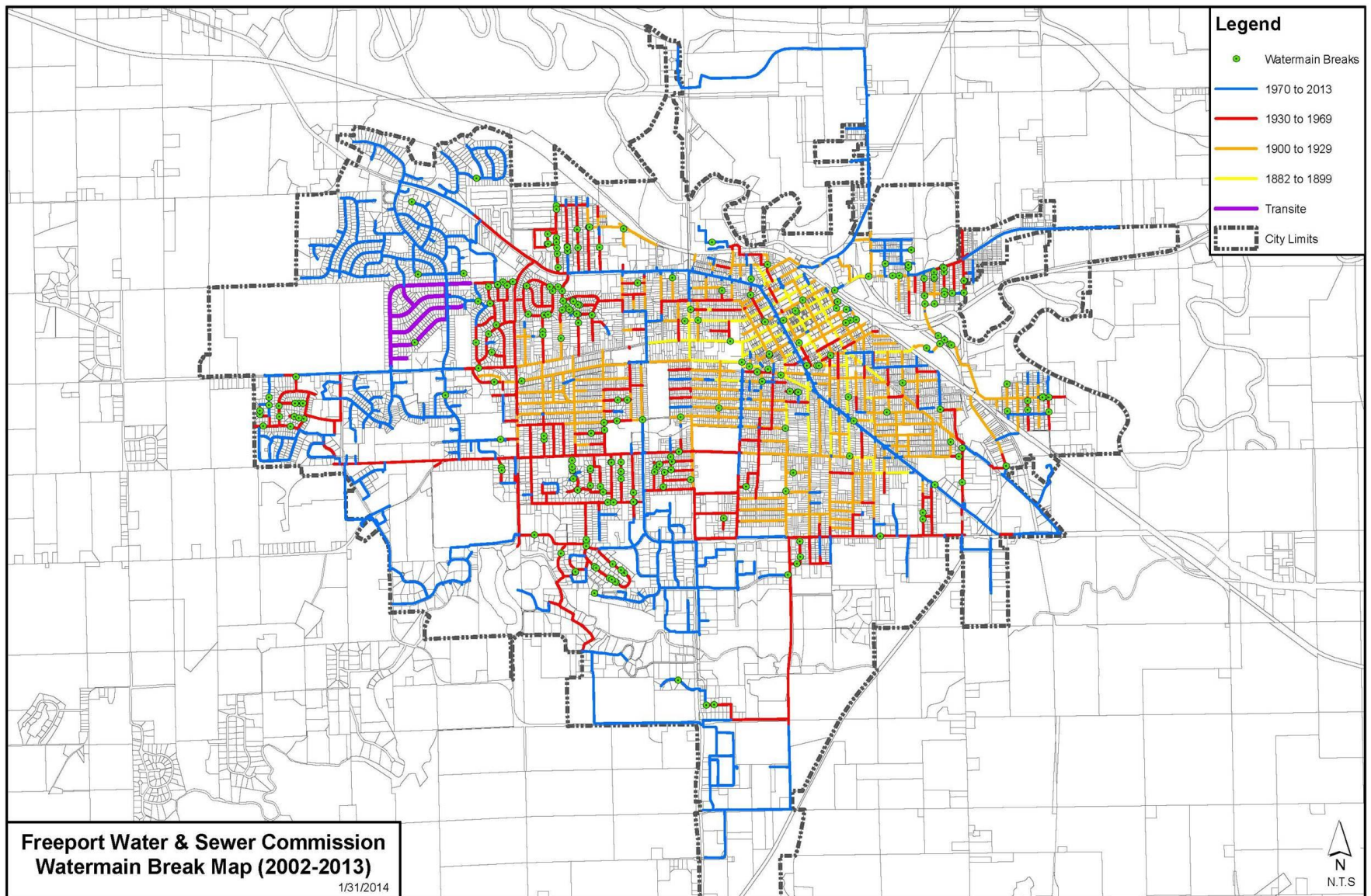
Total = \$7,169,714.49 of \$8,750,000 or 18.1% Under Budget

*Total includes PRV install project not shown

Generations of Freeport Watermain & Life Expectancy



Total Watermain 50 Years or Older = 76.7 of 137.5 Miles (55%)



255 Watermain Breaks over 10 Years



7 Locations for Watermain Failure at Rail Crossings

Water & Sewer – 30 Year Plan

CIP Revenue	\$ 155,750,000	% of Budget
Replace 87 Miles of Watermain	\$ 75,000,000	48.2%
Line 25 Miles of Sanitary Sewer	\$ 25,500,000	16.4%
Replace 3000 Lead Services	\$ 4,000,000	2.6%
Replace 7 Water/Rail Crossings	\$ 1,000,000	0.6%
Replace 4.5 Miles of Forcemain	\$ 3,000,000	1.9%
Carroll Tank Rehabilitation	\$ 750,000	0.5%
New Water Filtration Plant	\$ 10,000,000	6.4%
Upgrade Wastewater Plant	\$ 10,000,000	6.4%
Equipment/Tech Replacements	\$ 15,000,000	9.5%
Engineering	\$ 11,750,000	7.5%
Total CIP Cost	\$ 155,750,000	100%

Water & Sewer – 5 Year Plan

CIP Revenue	\$ 23,400,000	% of Budget
Replace 14.5 Miles of Watermain	\$ 12,500,000	53.4%
Line 4 Miles of Sanitary Sewer	\$ 4,250,000	18.2%
Replace 500 Lead Services	\$ 900,000	3.8%
Replace 7 Water/Rail Crossings	\$ 1,000,000	4.3%
Replace 4.5 Miles of Forcemain	\$ 3,000,000	12.8%
Engineering	\$ 1,750,000	7.5%
Total CIP Cost	\$ 23,400,000	100%

**\$20,710,000 / 11,500 Accounts / 5 Years /
12 months = \$30.01 per Month**

Summary

- The current funding levels for both Transportation and Water & Sewer are not sustainable and continue to lose ground every year.
- Water & Sewer and City Street projects must be coordinated together to reduce overlapping costs.
- Large one-time projects (BIG Four & Phase B) put additional strain on City staff requiring assistance from private Consultants, whereas smaller annual projects can be coordinated by existing staff with minimal overhead.
- Investments in energy efficiencies and expiring debt service will help offset long-term inflation costs.
- Revenue increases may come from multiple sources, including prioritizing existing revenues, grants, energy efficiency investments, rate increases, user taxes, fines and collections.
- Upgrades are required, the only variables are time and money.

Key Points

- Is our infrastructure a priority worth additional investments?
- Are these plans acceptable or do they need modification?
 - Adjust Time?
 - Adjust Money?
- What is the timeline for moving forward?
 - Every year we wait, we fall further behind
 - Design money needed to front project development