HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

PUBLIC MEETING
VILLAGE OF ROMEO

SEMCOG PLANNING GRANT

Presented by: Hubbell, Roth & Clark

SEMCOG GRANT BACKGROUND

- Grant award of $40,000 from the SEMCOG Planning Assistance Program
  - Funds utilized for planning activities in the Village
  - Completed by 6/30/2025
- Village Goals:
  - Develop updated asset inventory and CIP to plan for future expenses
  - Prioritize projects to address asset needs

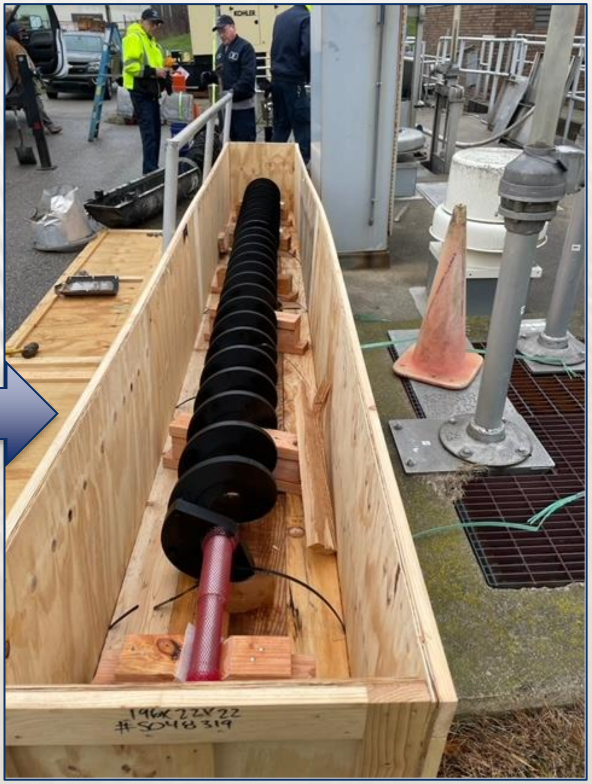
PUBLIC MEETING PURPOSE

- Provide a forum for input on prioritization of assets from the Board of Trustees and input on other updates in the Village
  - First Public Meeting was held in fall of 2024

ASSETS TO BE INCLUDED

- **Wastewater Treatment Plant**
- **Sanitary Sewer System**
- **Drinking Water System & Water Tower**
- **Iron Removal Plant**
- **Storm Sewer System**
- **Village Roads**
- **Downtown Sidewalls**
- **Downtown Parking Lots**
- **DPW, Village Hall, & Community Center Building**

WASTEWATER TREATMENT PLANT PROJECTS



WASTEWATER TREATMENT PLANT IMPROVEMENT COSTS

- **Some projects outlined in the 2019 CIP have been completed.**
- **Listed here are the remaining projects.**
  - Note that inflation rates were considered when updating these costs.

Project	CIP Year	2025 Estimated Cost
Replace Main Transformer	0-5	$372,000
Structural Concrete Rehab of Primary Tank	0-5	$131,000
Replace Backwash Pumps	0-5	$31,000
Replace VFD Feed Pump	0-5	$31,000
Replace Backwash Blower	0-5	$31,000
Replace Secondary Clarifier Augers and Skimmers	6-10	$362,000
Replace Dystor and Secondary Digester Cover	6-10	$868,000
Replace Equalization Tank Feed Pumps & Mixer	11-15	$124,000
Rehab Trickling Filer Media and Steel Filter Vessel	11-15	$496,000
Replace Grinder/Auger Screening Unit	11-15	$372,000
Rehab Primary Pump Station Pumps and VFDs	11-15	$248,000
Secondary Treatment Project	16-20	$2,480,000
Subtotal Cost		**$5,546,000**
Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)		**$8,319,000**

SANITARY SEWER SYSTEM PROJECTS

- **SAW Grant Capital Improvement Projects**
  - Updated existing CIP with rehab completed during the 2023 & 2024 Local Paving Projects
- **Listed on the next page are the remaining projects with added maintenance costs.**
  - Note that inflation rates were considered when updating these costs.

Before Trenchless Rehab

After Trenchless Rehab

SANITARY SEWER SYSTEM IMPROVEMENT COSTS

Project	Quantity	CIP Year	2025 Estimated Cost
Cured-In-Place Pipe Lining	3,214-lft	0-5	$260,000
Open Cut Repair	21-ea	0-5	$285,000
Spot Liner	18-lft	0-5	$33,000
Joint Grouting	9-ea	0-5	$20,000
Routine Cleaning & CCTV (footage not completed in 2018)	6,200-lft	0-5	$45,000
Cured-In-Place Pipe Lining	6,473-lft	6-10	$502,000
Open Cut Repair	6-ea	6-10	$75,000
Joint Grouting	3-ea	6-10	$7,000
Manhole Rehabilitation	64-ea	6-10	$73,000
Routine Cleaning & CCTV (last completed 2018)	31,000-lft	6-10	$225,000
		Subtotal Cost	**$1,525,000**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)	**$2,288,000**

DRINKING WATER SYSTEM IMPROVEMENT COSTS

Report Year	Project	CIP Year	Estimated Cost
2017	Chandler St (West Saint Clair to Minot) 8-inch Replacement	0-5	$242,000
2017	Church St (Dead End off Chandler) 8-inch Replacement	0-5	$31,000
2017	Benjamin St (Bradley to Village Limits) 8-inch Replacement	0-5	$55,000
2020	Any Confirmed Lead Service Line Replacements	0-5	TBD
2017	Blaine Ct 8-inch Replacement	6-10	$31,000
2017	Cuthbert Ct 8-inch Replacement	6-10	$31,000
2017	Gates St (N Bailey St to Prospect) 8-inch Replacement	6-10	$143,000
2017	Michelle Drive 8-inch Replacement	6-10	$73,000
2017	Brook St (Blaine Dr to Benjamin St) 8-inch Replacement	6-10	$85,000
2017	Morton St (West Saint Clair to Minot) 8-inch Replacement	6-10	$242,000
2017	West Saint Clair Rd (Morton to Chandler) 8-inch Installation	6-10	$106,000
2017	Wonder Ln 8-inch Replacement	6-10	$121,000
2019	Morton St Booster Station: Rehab or replace pumps within exist.	6-10	$55,000
2019	Replace Backwash Blowers	6-10	$45,000
2019	Valve and Actuator Replacement	6-10	$25,000
		Subtotal Cost	**$1,577,000**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)	**$2,366,000**

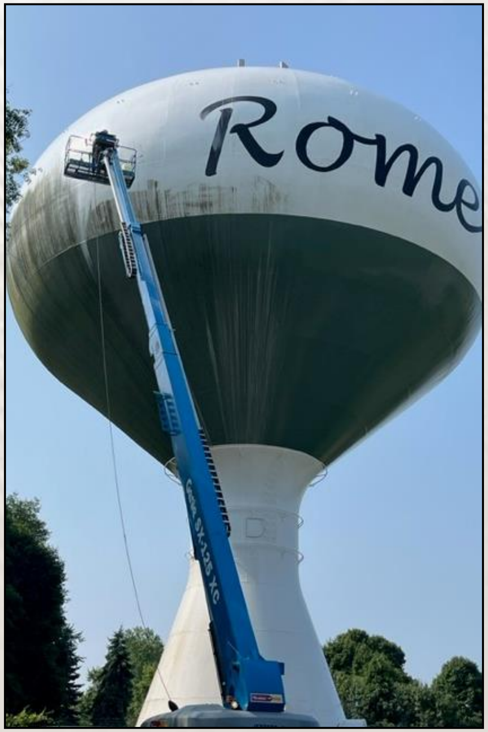
- **Based on CIP developed in 2019.**
- **No major water system projects have been completed since.**
  - Additional projects have been added to the CIP since due to regulatory requirements.

WATER TOWER PROJECTS & COSTS

- **Based on 2023 Site Assessment by Dixon Engineering:**

Report Year	Project	CIP Year	Estimated Cost
2023	Exterior Overcoat	0-5	$210,000
2023	Dry Interior Partial Repaint	0-5	$20,000
2023	Replace Roof Vent	0-5	$8,000
2023	Upgrades (Install painter's railing, expansion joint, mud valve)	0-5	$30,000
2023	Wet Interior repainting	6-10	$250,000
		Subtotal Cost	**$518,000**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)	**$777,000**

During Cleaning



Post Cleaning

IRON REMOVAL PLANT & WELL HOUSE PROJECTS

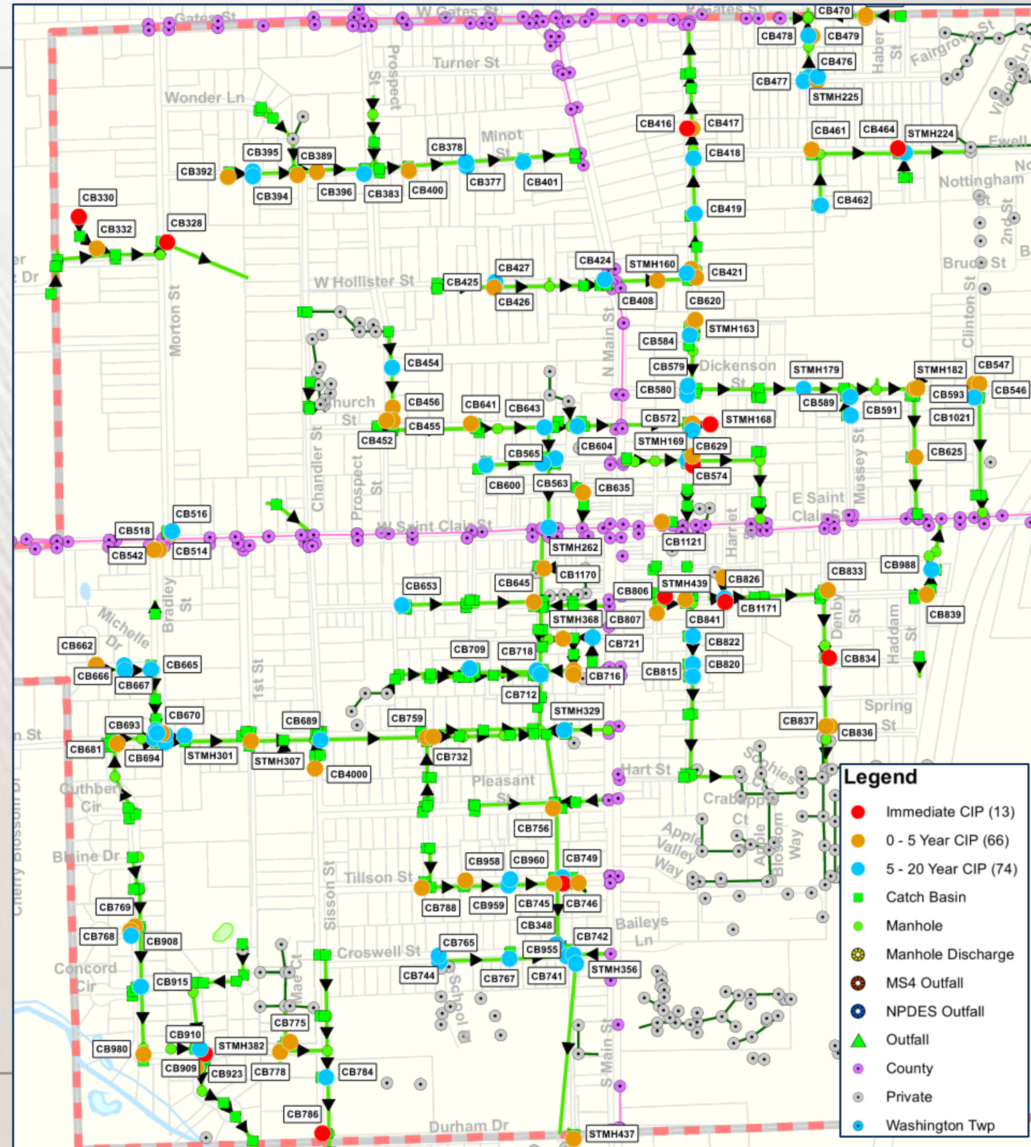
(List of projects & costs on next page)

IRON REMOVAL PLANT & WELL HOUSES IMPROVEMENT COSTS

Item	Project	CIP Year	Est. Cost
IRP	Install Emergency Lighting	0-5	$5,000
IRP	Perform Maintenance on Distribution and Lighting Panels	0-5	$3,000
IRP	Replace Building Roof and Gutters with Metal Roofing System	0-5	$39,100
IRP	Reglaze and Re-caulk Doors and Windows	0-5	$3,500
IRP	New Power Equipment Maintenance Building	0-5	$75,000
IRP	Remove Staining and Correct Seepage from Gutter	0-5	$2,000
Well No. 5	Replace Main Distribution Panel, Transformer, and Panelboard	0-5	$40,000
Well No. 5	Install Emergency Lighting	0-5	$3,000
Well No. 5	Replace Building Roof and Gutters with Metal Roofing System	0-5	$14,450
Well No. 5	Recoat Floor Slab with Epoxy	0-5	$3,400
Well No. 5	Fabric Filter for Makeup Air Vent	0-5	$250
Well No. 3	Install Emergency Lighting	0-5	$3,000
Well No. 3	Replace Building Roof and Gutters with Metal Roofing System	0-5	$8,500
Well No. 3	Replace Concrete Walkway	0-5	$750
Well No. 3	Replace Exhaust Fan	0-5	$2,500
Well No. 3	Repair Unit Masonry	0-5	$4,000
Well No. 3	Replace Service Sink	0-5	$2,000
Well No. 3	Distribution Panel, Transformer and Lighting Panel Replacement	0-5	$40,000
Well No. 6	New Masonry Building with Metal Roof	0-5	$115,000
Well No. 6	Building Electrical Improvements	0-5	$11,000
IRP	Upgrade PLC Platform (5-10 Years)	6-10	$20,000
Well No. 5	VFD Replacement	6-10	$40,000
Well No. 3	VFD Replacement	6-10	$25,000
Well No. 5	Generator Replacement	11-20	$250,000
		Subtotal Cost	**$710,450**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 5% general requirements, 25% engineering and admin.)	**$1,101,000**

STORM SYSTEM PROJECTS

- **Few storm pipes were inspected during the SAW Grant in 2018-2019.**
- **SAW Grant Capital Improvement Projects**
  - Structure rehab locations:
  - 2023-2024 Local Paving Projects included storm drainage improvements in the road only.
  - No structure rehab from the CIP has been completed to date.
  - CIP updated to included televising the storm system.



STORM SYSTEM IMPROVEMENT COSTS

Project	Quantity	CIP Year	2025 Estimated Cost
Reconstruct Manhole	7-ea	0-5	$70,000
Interior Cementitious Grouting	53-ea	0-5	$35,000
Structural Lining	11-ea	0-5	$85,000
Cover Replacement	9-ea	0-5	$10,000
Chimney Replacement (Pavement)	2-ea	0-5	$5,000
Reconfigure Storm Connection	1-ea	0-5	$35,000
Locate and Inspect Manholes (Not Found/ No Access/ Buried)	20-ea	0-5	$10,000
Routine Cleaning & CCTV (footage not completed in 2018)	54,860-lft	0-5	$412,000
Replace Frame & Cover (Grass)	1-ea	6-10	$2,000
Interior Cementitious Grouting	72-ea	6-10	$45,000
Structural Lining	2-ea	6-10	$15,000
Routine Sewer Cleaning & CCTV (last completed 2018)	4,740-lft	6-10	$36,000
Routine Structure Cleaning & Inspection (last completed 2018)	548-ea	6-10	$877,000
		Subtotal	**$1,637,000**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)	**$2,456,000**

VILLAGE ROAD PROJECTS

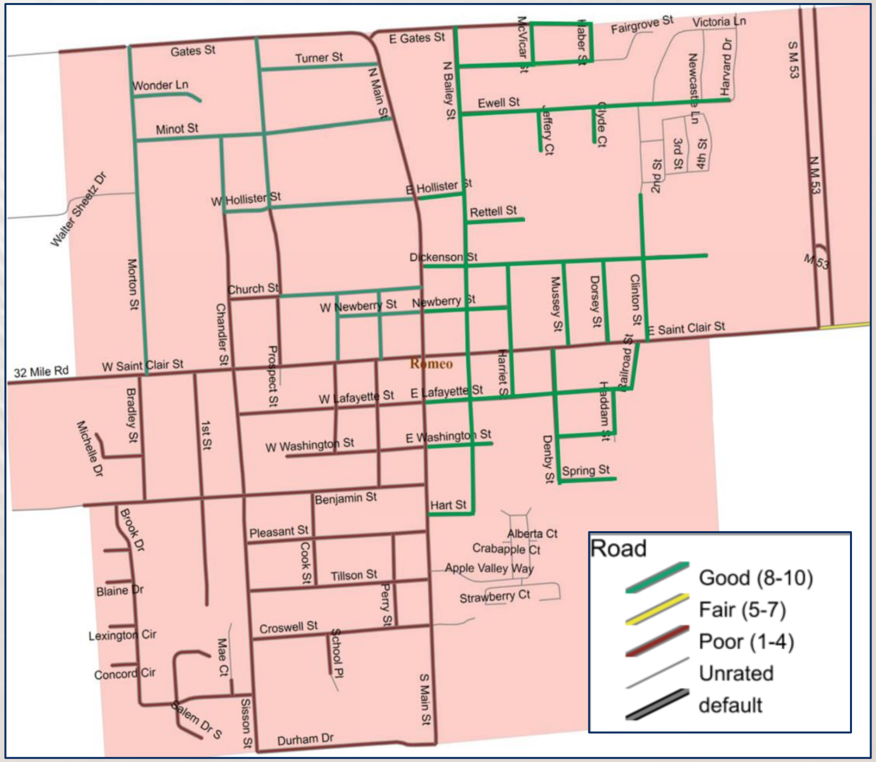
- **PASER Ratings**
  - Will be updated with the 2023 & 2024 Local Paving Projects
  - Approx. 6-miles of poorly rated roads
- **Included in the updated CIP:**
  - SW Quadrant
  - Remaining roads in the NW Quadrant
  - Future Maintenance

Before

After

VILLAGE ROAD IMPROVEMENT COSTS

Project	CIP Year	Estimated Cost
2026 Local Street Resurfacing (NW Quadrant not completed in 2023)		
NW Quadrant Sewer Rehabilitation	0-5 Year	$30,200
NW Quadrant Street Resurfacing	0-5 Year	$341,003
2026 Local Street Resurfacing (SW Quadrant)		
SW Quadrant Sewer Rehabilitation	0-5 Year	$399,887
SW Quadrant Street Resurfacing	0-5 Year	$4,489,214
General Road Maintenance	6-10 Year	TBD
General Road Maintenance	11-20 Year	TBD
	Subtotal	**$5,260,304**
	Total Cost (incl. 16% contingency, engineering and admin.)	**$6,102,004**



DOWNTOWN DISTRICT SIDEWALK IMPROVEMENT COSTS

Project	Quantity	CIP Year	Estimated Cost
Sidewalk, Rem	4,005-syd	0-5	$80,095
Curb and Gutter, Rem	2,355-lft	0-5	$35,325
Curb and Gutter, Conc, Det C4	2,355-lft	0-5	$89,490
Sidewalk, Conc, 4-inch, Integral Brick Pavers	31,542-sft	0-5	$630,840
Sidewalk Ramp, Conc, 6 inch	4,500-sft	0-5	$67,500
Detectable Warning Surface, Special	300-lft	0-5	$16,500
Tree Planting Areas	1,050-sft	0-5	$787,500
Village-wide Sidewalk Inspections	30-miles	6-10	$40,000
Village-wide Sidewalk Repairs	TBD	6-10	TBD
		Subtotal	**$1,707,205**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)	**$2,561,000**

PARKING LOTS

- Pavement cores on all five parking lots are being taken this month to determine rehabilitation type.
- Costs to be estimated once rehabilitation method is determined.

VILLAGE DPW FACILITY

- **Site assessment to take place this month.**
- **Known improvement projects:**
  - Roof Rehabilitation
  - Parking Lot Improvements
  - Salt Barn Updates

- **Costs to be determined after site assessment is completed.**

VILLAGE HALL

Area / System	Replace	Repair or Update	Monitor
EXTERIOR ENVELOPE			
Brick		X	X
Windows	X	X	X
Doors			X
Trim & Flashings		X	X
Exterior Stair		X	X
ROOFING			
Roof Covering	X		X
Gutters & Downspouts		X	X
Curbs & Flashings		X	X
INTERIOR CONDITIONS			
Flooring		X	X
Wall Finishes		X	X
Ceilings		X	X
ACCESSIBILITY			
Entrances		X	X
Doors & Hardware	X		X
Floor Level Changes	X		X
Counter Heights		X	X
Plumbing Fixtures			X

COMMUNITY CENTER

Area / System	Replace	Repair or Update	Monitor
EXTERIOR ENVELOPE			
Siding			X
Windows	X	X	X
Doors			X
Trim & Flashings		X	X
ROOFING			
Shingles		X	X
Gutters & Downspouts			X
Flashings			X
INTERIOR CONDITIONS			
Flooring			X
Wall Finishes	X	X	X
Ceilings			X
Doors			X
ACCESSIBILITY			
Entrances			X
Doors & Hardware			X
Plumbing Fixtures			X

VILLAGE HALL & COMMUNITY CENTER COSTS

Project	Quantity	CIP Year	Estimated Cost
Village Hall			
Minor Brick Repairs and Repointing	1 LS	0-5	$4,500
Clean & Seal Masonry Planter Bed Caps	1 LS	0-5	$1,200
Window Repair or Replacement Allowance	5-ea	0-5	$25,000
Exterior Door Repairs	1 LS	0-5	$6,500
Miscellaneous Roof Cleanup & Flashing Repairs	1 LS	0-5	$5,000
PD Ceiling Repairs	1 LS	0-5	$500
Allowance for Miscellaneous ADA Improvements	1 LS	0-5	$25,000
Clean & Recoat Exterior Stair	1 LS	6-10	$3,500
Upper Roof - Roofing Replacement (Future)	2,050-sft	6-10	$71,750
PD Flooring Repairs/Replacement	1 LS	6-10	$7,500
Community Center			
Roof Shingle Repairs	1 LS	0-5	$500
Window Replacement	3-ea	0-5	$10,500
Interior Patio Door Replacement Allowance	1 LS	0-5	$10,000
Meeting Room Wall Repairs	1 LS	6-10	$2,500
Vinyl Siding Repairs	1 LS	6-10	$1,500
		Subtotal	**$175,450**
		Total CIP Cost (incl. 5% mobilization, 20% contingency, 25% engineering and admin.)	**$263,000**

SUMMARY

- **Projects to Prioritize:**

Village Asset	Total Estimated Cost	Average Yearly Cost (over 5 years)
Wastewater Treatment Plant	$894,000	$178,800
Sanitary Sewerage System	$964,500	$192,900
Water Distribution System	$930,000	$186,000
Iron Removal Plant & Well Houses	$563,175	$112,635
Storm Sewer System	$993,000	$198,600
Sidewalks	$2,560,875	$512,175
Parking Lots (engineering-only)	$262,800	$52,560
Parking Lots (anticipated based on the Village Master Plan estimate)	$900,000	$180,000
Roads (NW & SW quadrants)	$6,102,004	$1,220,401
Village Buildings	$101,550	$20,310
Total	**$14,271,904**	**$2,854,381**

SUMMARY

▪ Long-Term Projects:

6-10 Years

Village Asset	Total Estimated Cost	Average Yearly Cost (over 5 years)
Wastewater Treatment Plant	$1,845,000	$369,000
Sanitary Sewerage System	$1,323,000	$264,600
Water Distribution System	$1,435,500	$287,100
Iron Removal Plant & Well Houses	$127,500	$25,500
Storm Sewer System	$1,462,500	$292,500
Sidewalks	$60,000	$12,000
Road (Maintenance)	TBD	TBD
Village Buildings	$6,000	$1,200
Total	**$6,259,500**	**$1,251,900**

11-20 Years

Village Asset	Total Estimated Cost	Average Yearly Cost (over 10 years)
Wastewater Treatment Plant	$5,580,000	$558,000
Sanitary Sewerage System (Routine Sewer Cleaning & CCTV)	$1,500,000	$150,000
Sanitary Sewerage System (Structure Cleaning & Inspection)	$1,230,000	$123,000
Storm Sewer System (Routine Sewer Cleaning & CCTV)	$832,500	$83,250
Storm Sewer System (Routine Structure Cleaning & Inspection)	$1,632,000	$163,200
Road (Maintenance)	TBD	TBD
Iron Removal Plant & Well Houses	$375,000	$37,500
Total	**$11,150,000**	**$1,115,000**

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VILLAGE OF ROMEO · MACOMB COUNTY

THANK YOU

Questions?