

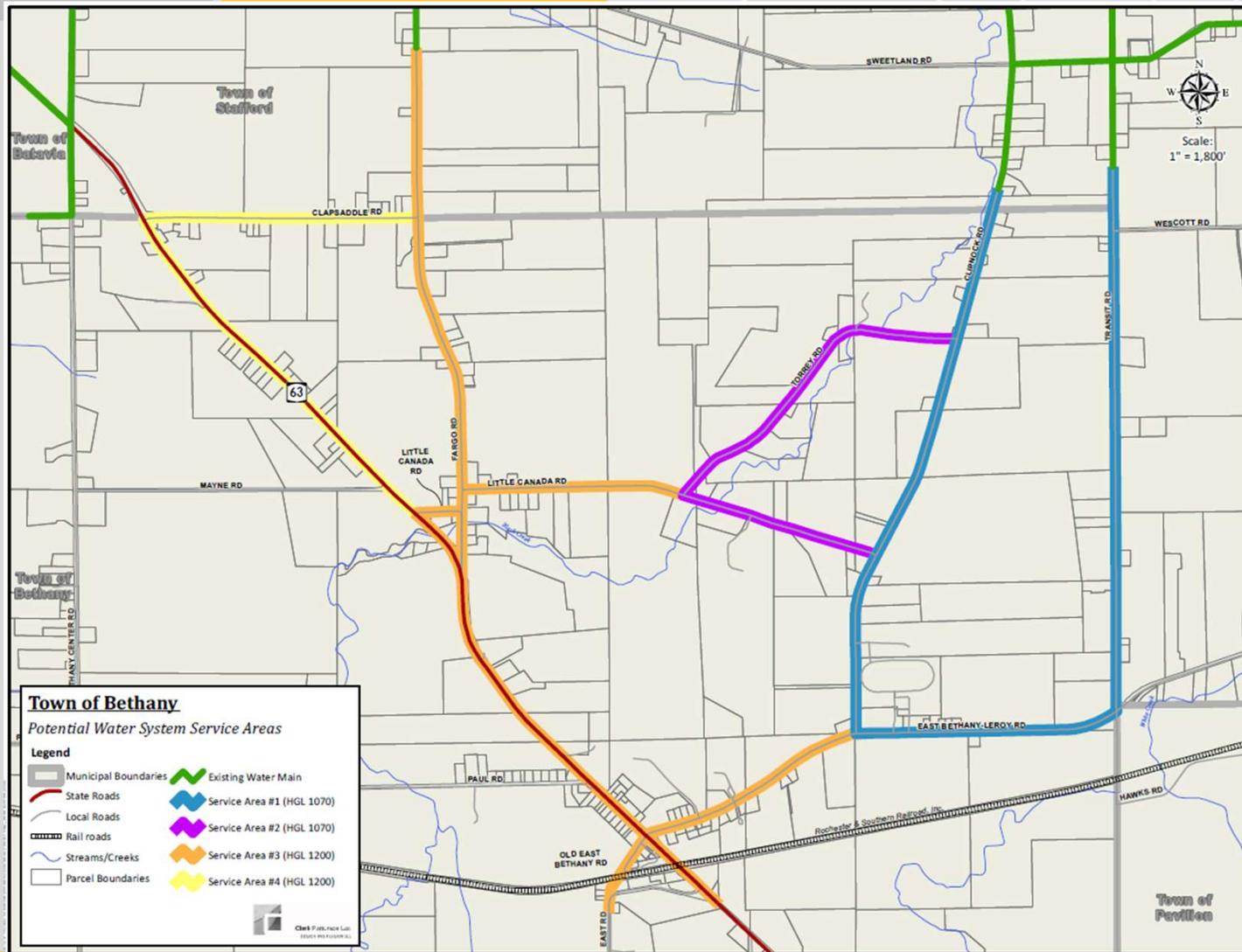
Water District #5 Informational Meeting

September 17, 2018



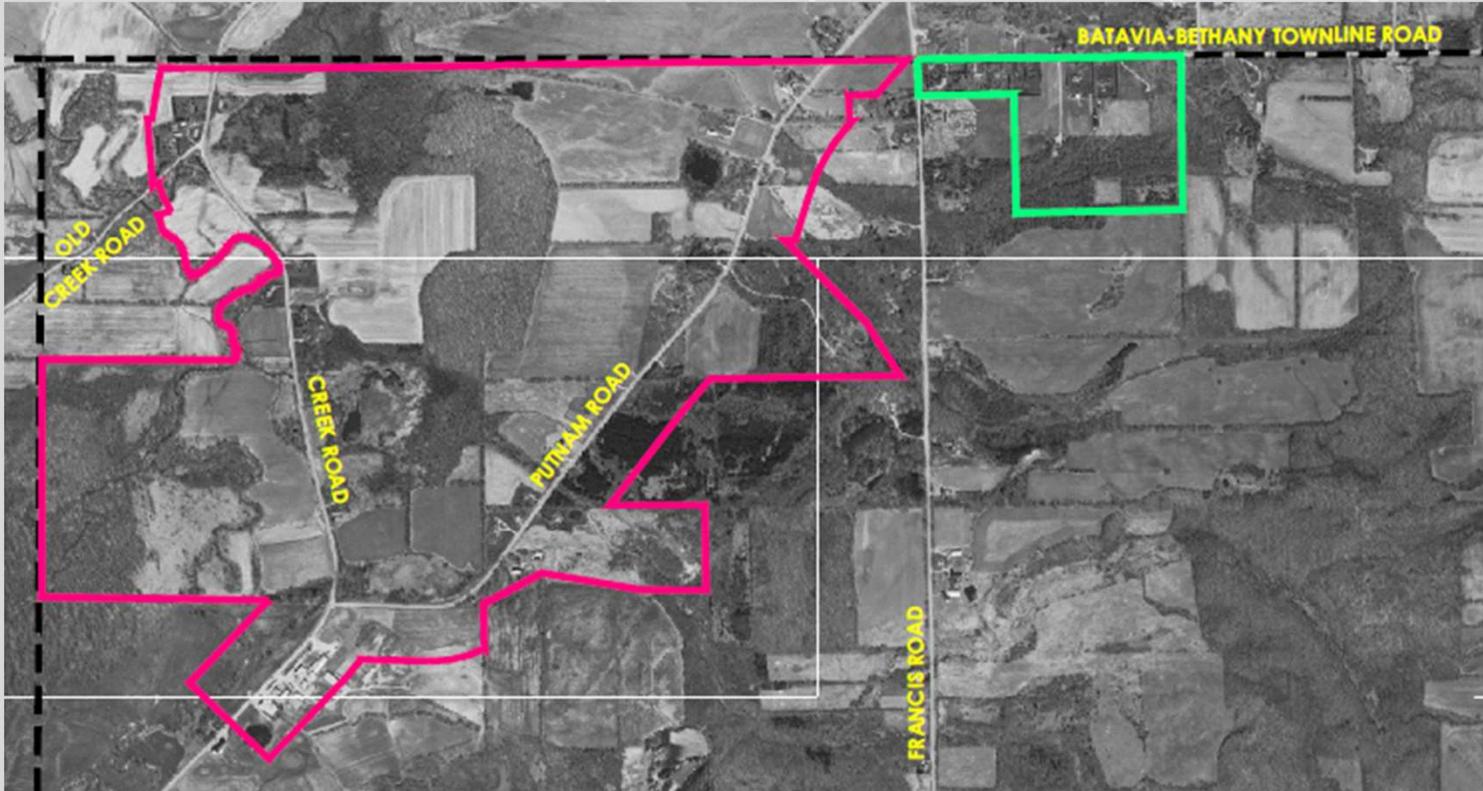
Town of Bethany

History



Town of Bethany

History



Town of Bethany

History



Town of Bethany

Meeting Purpose

1. Are you interested in public water?
2. How much would you be willing to pay for public water on an annual basis?
3. Do you want the Town to form a water district and secure funding for the project?

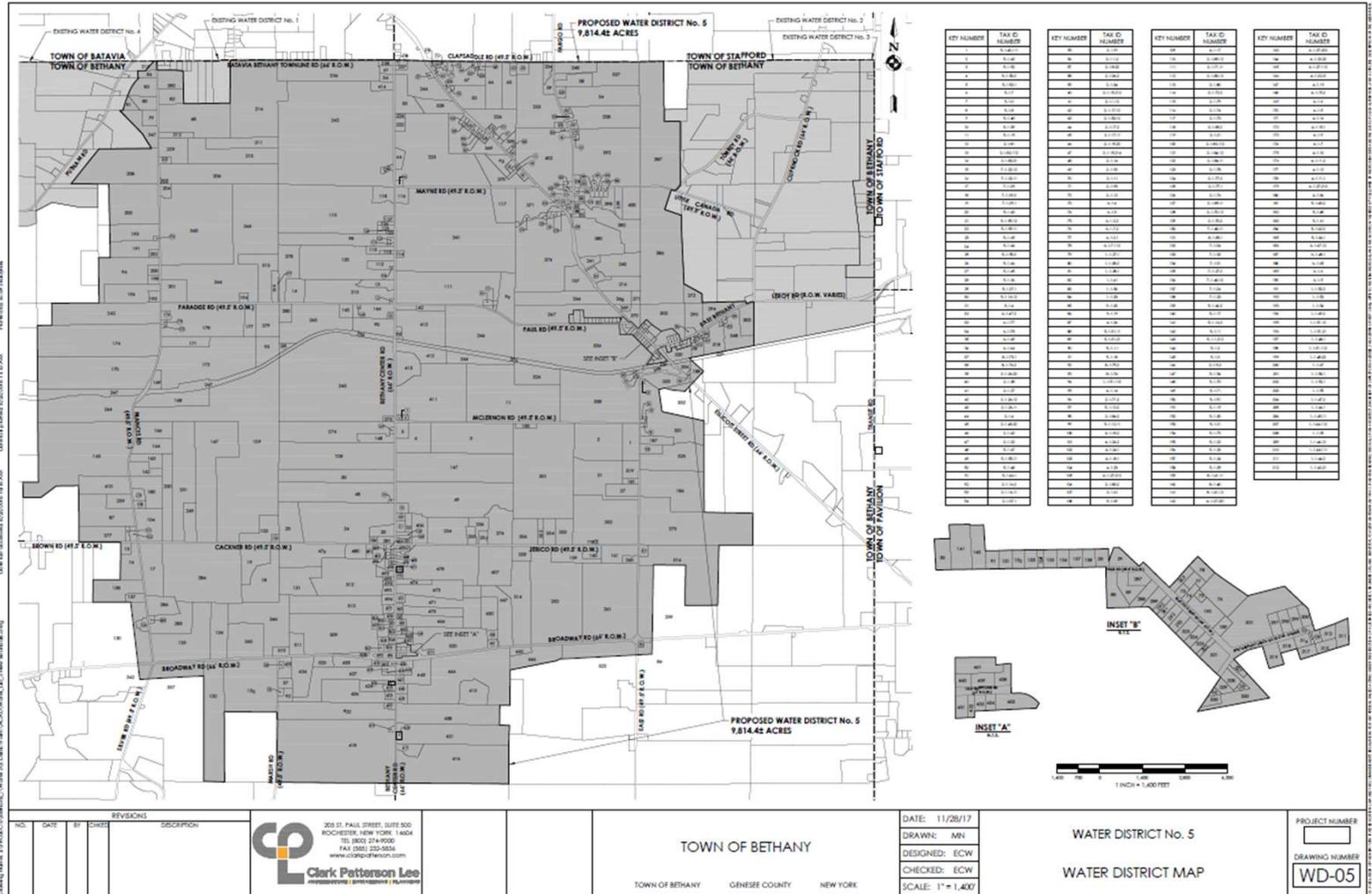


District Definition

A water district is a special use district required by Town Law where a specific area of the Town receives a specific benefit. The cost for receiving this benefit is borne solely on the property owners in that specific area.



District Map



NO.	DATE	BY	CHKD	DESCRIPTION


 205 ST. PAUL STREET, SUITE 500
 ROCHESTER, NEW YORK 14604
 TEL (585) 274-0000
 FAX (585) 270-5536
www.clarkpatterson.com
 PROFESSIONAL ENGINEERS & SURVEYORS

TOWN OF BETHANY

TOWN OF BETHANY GENESSEE COUNTY NEW YORK

DATE: 11/28/17
 DRAWN: MN
 DESIGNED: ECW
 CHECKED: ECW
 SCALE: 1" = 1,400'

WATER DISTRICT No. 5
 WATER DISTRICT MAP

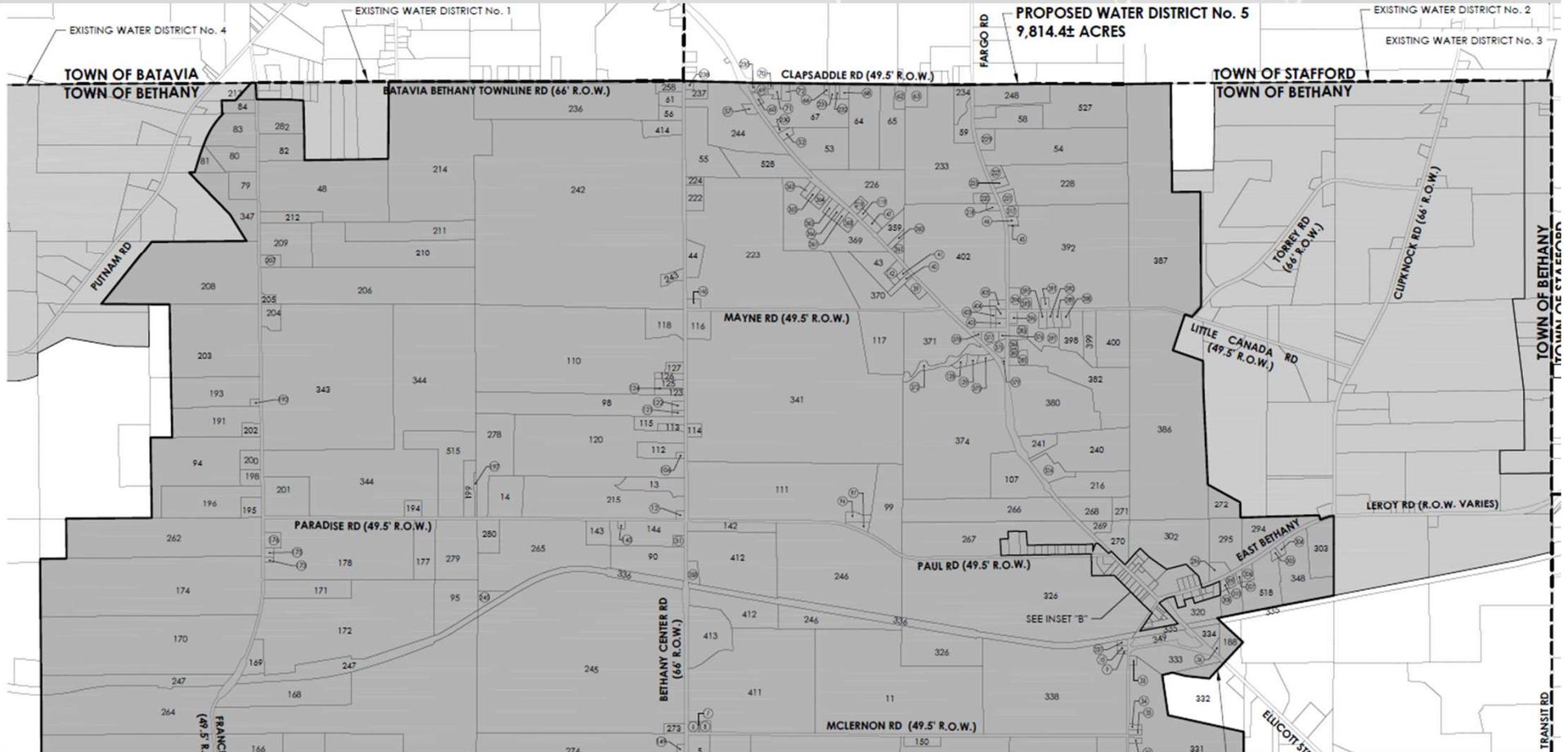
PROJECT NUMBER

 DRAWING NUMBER
WD-05



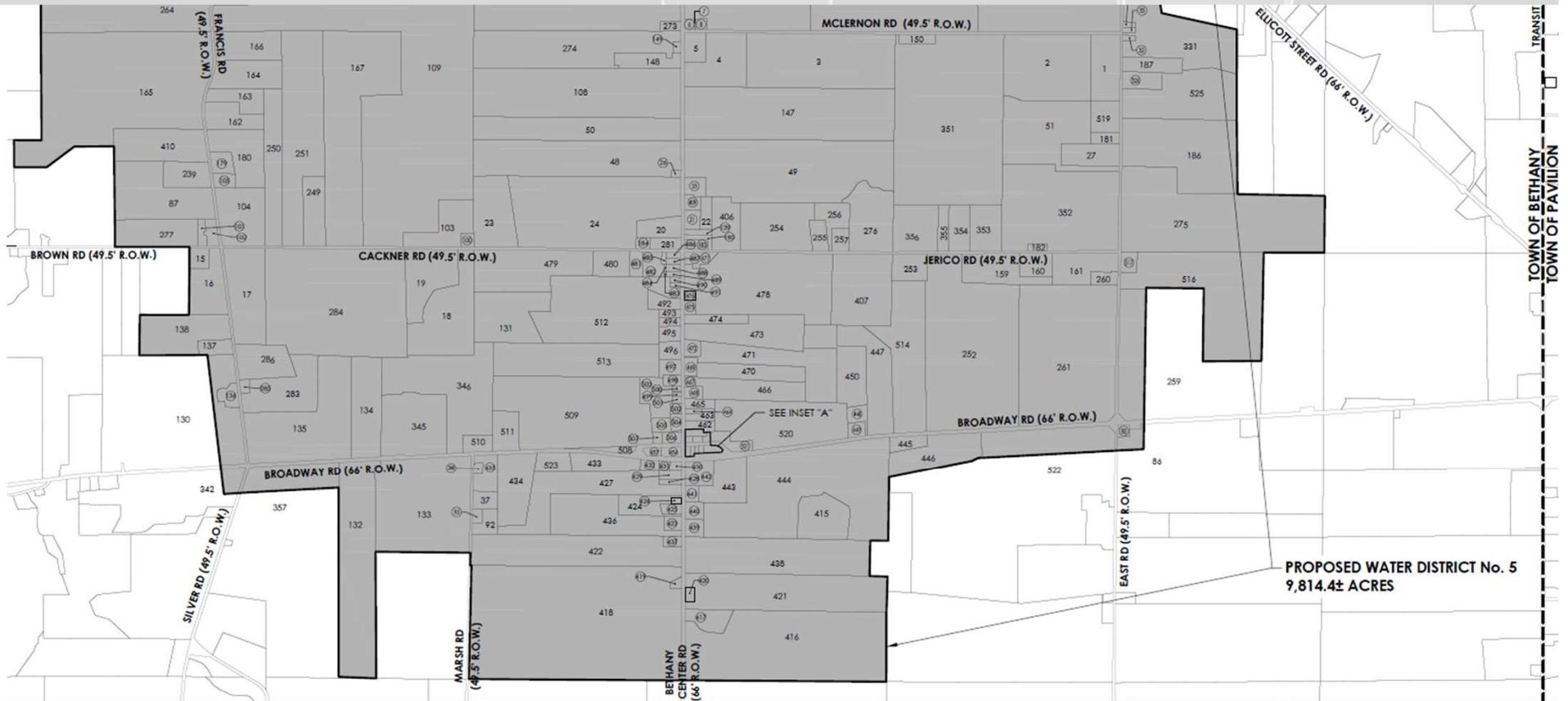
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District Map



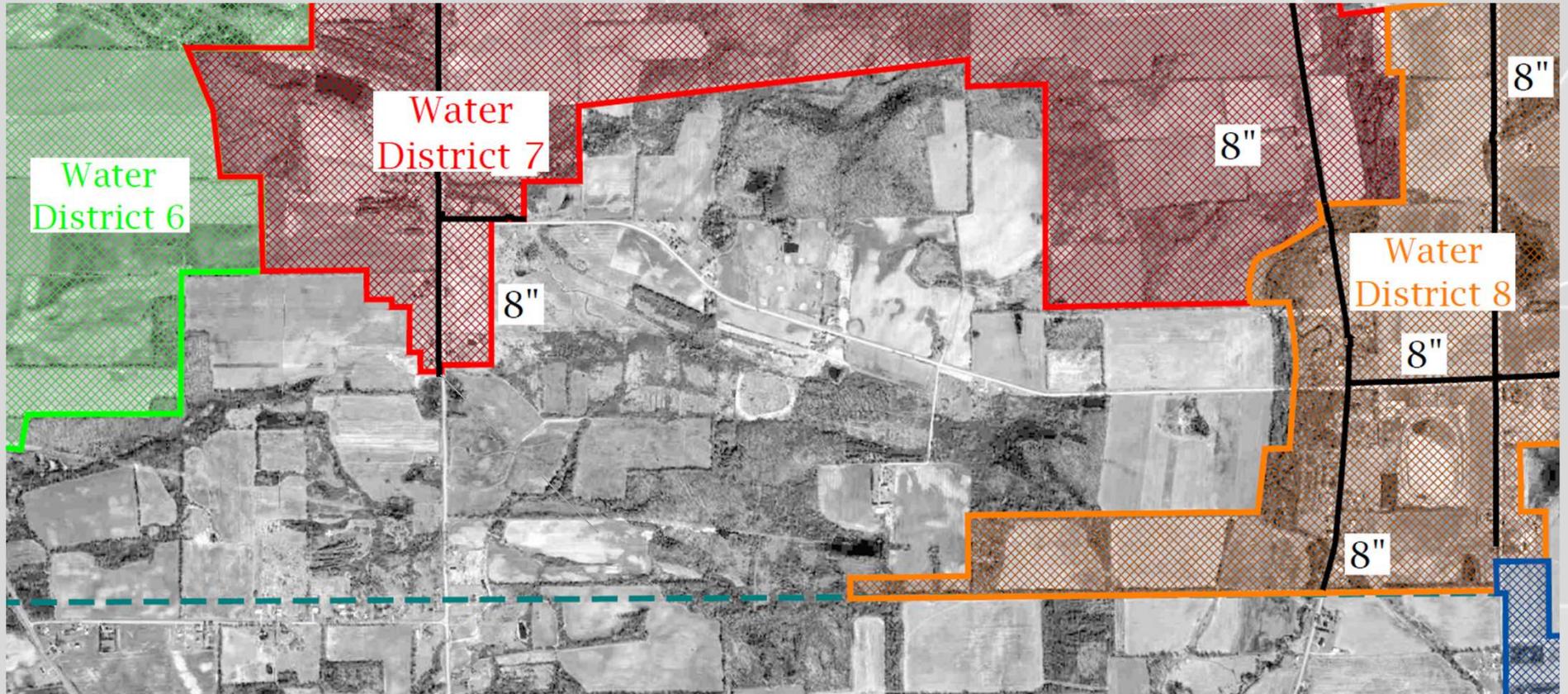
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District Map



Town of Bethany

Town of Stafford



Town of Bethany

Public Side

- Water Mains
 - 8-inch and 12-inch Ductile Iron
 - 152,000 linear feet
- Water Storage Tanks
 - Tentative locations near the Town Hall and on East Road, north of Jerico Road
- Pump Stations
- Valves & Hydrants
- Water Services



Private Side

- Service Line
 - Property Line to House or Business
- Well
 - Abandonment vs Continued Use
- Backflow
 - Required for all Commercial Users
 - Required for certain Residential Users



Costs

- Capital Costs
 - Public versus Private
- Operation & Maintenance Costs
 - Utilities, Labor, Testing, etc...
- Genesee County Supply
 - Surcharge
- Estimated Annual Costs
 - Equivalent Dwelling Unit (EDU)



Town of Bethany

Capital Costs – Private Side

- Water Service
 - \$15 to \$25 per linear foot
 - Internal Plumbing Changes
 - Well Abandonment
- Monroe County Water Authority
 - \$240 Meter Fee
 - \$250 Deposit – Refunded after “Proper” Connection
 - \$500 Access Easement - Required if Well “kept”
- Backflow Prevention



Capital Costs – Public Side

ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	ESTIMATED UNIT PRICE	ESTIMATED TOTAL
1	Furnish and Install 8" Diameter Water Main	LF	115,000	\$ 36.00	\$ 4,140,000.00
2	Furnish and Install 12" Diameter Water Main	LF	37,000	\$ 45.00	\$ 1,665,000.00
3	Furnish and Install 8" In-Line Gate Valves Complete	EA	100	\$ 1,500.00	\$ 150,000.00
4	Furnish and Install 12" In-Line Gate Valves Complete	EA	50	\$ 3,000.00	\$ 150,000.00
5	Furnish and Install Short Side Water Service	EA	190	\$ 1,000.00	\$ 190,000.00
6	Furnish and Install Long Side Water Service	EA	190	\$ 1,800.00	\$ 342,000.00
7	Furnish and Install Hydrant Assemblies	EA	215	\$ 4,200.00	\$ 903,000.00
8	Water Storage Tanks	LS	2	\$ 1,000,000.00	\$ 2,000,000.00
9	Pump Stations	EA	2	\$ 400,000.00	\$ 800,000.00
10	Rock Excavation	CY	1,000	\$ 75.00	\$ 75,000.00
11	Maintenance & Protection of Traffic Including Signs	LS	1	\$ 150,800.00	\$ 150,800.00
12	Mobilization	LS	1	\$ 208,300.00	\$ 208,300.00
				SUBTOTAL =	\$ 10,774,100.00
				CONTINGENCY (5%) =	\$ 538,705.00
				LEGAL, ENGINEERING, & ADMINISTRATION (20%) =	\$ 2,154,820.00
				TOTAL (ROUNDED) =	\$ 13,470,000.00



Town of Bethany

Water Costs

- Average Single Family House
 - 63,000 gallons per year
- Monroe County Water Authority
 - \$0.21 Base Charge for Standard Service
 - \$3.43 per 1,000 gallons
- Genesee County Surcharge
 - Currently \$0.60 per 1,000 gallons
 - Projected \$1.20 per 1,000 gallons



Equivalent Dwelling Unit

- Single Family Home = 1 EDU
- Multiple Family Home = 1 EDU + 0.5 EDU for Each Additional Family
 - Two Family Home = 1.5 EDU
 - Three Family Home = 2 EDU
- Non- Residential
 - Calculated based on Average Daily Use divided by 173 gallons per day, rounded up
 - Example $960 \text{ gpd} / 173 \text{ gpd} = 6 \text{ EDU's}$



Equivalent Dwelling Unit

- Vacant
 - Developable = 0.5 EDU
 - NYS Certified Ag-District = 0 EDU
- Special Definitions
 - Fire Protection
 - Peak Flows
 - ETC...



Water Costs

MCWA

\$0.21 per day x 365 days = \$76.65

\$3.43 per 1,000 gallons x 63,000 gallons = \$216.09

Genesee County

\$1.20 per 1,000 gallons x 63,000 gallons = \$75.60

Total Annual Water Cost = \$368.34



Town of Bethany

Funding Sources

- USDA-Rural Development
 - Low Interest Loans & Grants
- Genesee County
 - \$4,500,000 Contribution
 - Lump Sum or Annual Payment



Town of Bethany

Total Annual Costs - Target

Total Project Cost:	\$13,470,000
Grant Amount:	(\$2,000,000)
Net Local Project Cost:	\$11,470,000
Estimated Total Debt Service:	\$519,910
Estimated County Debt Share	\$203,975
Estimate Local Debt Share	\$315,935
Number of EDU's:	500
Estimated Debt Service/Unit/Year:	\$631.87
Annual Water Cost Per EDU:	\$368.34
Total Estimated Unit Cost:	\$1,000



Town of Bethany

Total Annual Costs - Conservative

Total Project Cost:	\$13,470,000
Grant Amount:	(\$750,000)
Net Local Project Cost:	\$12,720,000
Estimated Total Debt Service:	\$519,910
Estimated County Debt Share	\$203,975
Estimate Local Debt Share	\$372,595
Number of EDU's:	500
Estimated Debt Service/Unit/Year:	\$745.19
Annual Water Cost Per EDU:	\$368.34
Total Estimated Unit Cost:	\$1,114



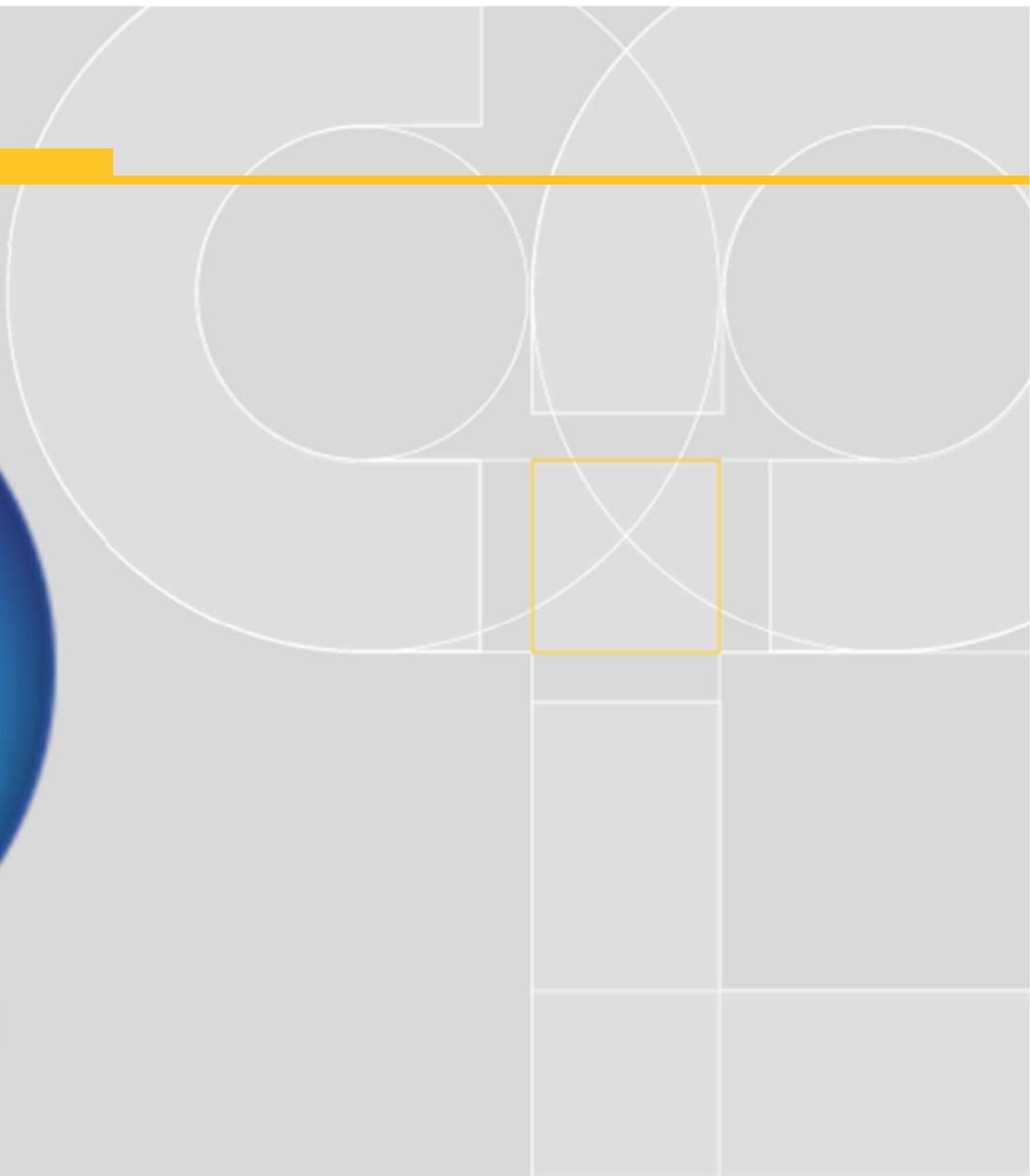
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Next Steps

- Income Survey (Currently underway)
- Water Quality Testing
- Environmental Review (Currently underway)
- Finalize EDU Count
- District Formation
- Intermunicipal Agreements
 - Town of Stafford
 - Genesee County
- USDA- RD Funding Application



Town of Bethany



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