



**CAPITAL IMPROVEMENT PROJECT (CIP) REQUEST - FY20  
FORM A - DESIGN & CONSTRUCTION**

<b>Project Title:</b>	Water Meter Replacement Program		
<b>Project Address:</b>	City Wide		
<b>Department:</b>	Water & Sewer Department		
<b>Project Mgr.:</b>	Alex Marini Lessin	<b>Email:</b>	alessin@somervillema.gov
<b>New Project or Modification:</b>	New Project		

**Department Priority:**

*Rank your project(s) in order of priority from your point of view. If you propose four projects, rank them 1, 2, 3, 4, with 1 being the highest, and so forth.*

**Project Description/Scope of Work:**

Purchase of over 14,000 water meters and automated reading system City-wide. Water meters will replace existing water meters that have reached the end of their useful life. At each meter, there is an automated reading device installed. The device sends a signal to 'repeater' towers that in turn send meter reads to a central computer system. Project includes both water meters and automated reader devices (often described as Advanced Metering Infrastructure, or "AMI").

**Justification:**

Water meters measure water usage across the City, which allows the Water & Sewer department to charge ratepayers accurately for water consumption and reduce water waste. The current AMI and the majority of the water meters in use have reached the end of their useful life and must be replaced.

**Relationship to Other Projects:**

This project impacts the revenue of the entire department, which supports the entire Water & Sewer Capital Improvement Plan.

**Category: Please check all appropriate boxes**

- Architectural/Engineering Feasibility Study
- Architectural/Engineering Construction Document Services & Construction Admin
- Building Alteration/Repair/Renovation/Addition/New Construction
- Building Improvements (non-construction)
- Purchase of Equipment (incl. vehicles, office equipment, hardware, etc.)
- Information Technology Systems/Platforms (e.g. cloud based, internet based, etc.)
- Street/Sidewalk/Monument Improvements
- Water Improvements
- Sewer Improvements
- Land Development
- Land Acquisition
- Land Disposition
- Parks and Open Space
- Other

**Operational Impact:**

Staff time will be required to manage this project during its duration. Staff time includes time devoted to planning, as well as managing two Advanced Metering Infrastructure systems at the same time.

**What impact will this project have on operational costs?**

- Reduce Cost (greater than 5%)
- Reduce Cost (less than 5%)
- Cost Unchanged
- Increase Cost (less than 5%)
- Increase Cost (greater than 5%)

## Design and Construction Project Funding

	Total Estimated Cost	Prior Years Funding	FY 20	FY 21	FY 22	FY 23	FY 24
<b>Capital Costs:</b>							
Feasibility Study	\$ -						
Land Acquisition/Appraisal	\$ -	-	-	-	-	-	-
Environmental Remediation/LSP	\$ -						
Demolition & Site Clearance	\$ -	-	-	-	-	-	-
Owner's Proj. Mgr./Clerk of the Works	\$ 200,000				150,000	50,000	
Designer Services (SD through CA)	\$ -						
Construction	\$ 1,844,010	-	-	-	1,229,340	614,670	
Insurance (builder's risk, addtl. Polices)	\$ -	-	-	-	-	-	
Furniture & Equipment (FFE)	\$ -						
Police Details	\$ -	-	-	-	-	-	
Contingency	\$ 1,315,990				657,996	657,994	
Other (Specify)	\$ 3,640,000	-	-	-	1,845,000	1,795,000	
Other (Specify)	\$ -	-	-	-	-	-	
<b>Total:</b>	<b>\$ 7,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,882,336</b>	<b>\$ 3,117,664</b>	<b>\$ -</b>

\$200,000 for 'clerk of the works' devoted to Management during project. Construction = installation of meters. Other = purchase of meter related parts. Does not include funds already encumbered and paid out of the enterprise funds for design and bid services.

**Please provide suggested sources. This section will be finalized jointly by Finance and the Department.**

	Total Estimated Cost	Prior Years Funding	FY 20	FY 21	FY 22	FY 23	FY 24
<b>Funding Sources:</b>							
Stabilization Fund	\$ -	\$ -	-	-	-	-	-
GO Bonds	\$ 7,000,000	-	-	-	3,882,336	3,117,664	-
Retained Earnings	\$ -						
General Fund	\$ -						
Special Assmnt.	\$ -	-	-	-	-	-	-
Ch. 90	\$ -						
Grants	\$ -	-	-	-	-	-	-
Receipts Reserved	\$ -						
Other (Specify)	\$ -	-	-	-	-	-	-
Other (Specify)	\$ -	-	-	-	-	-	-
<b>Total:</b>	<b>\$ 7,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,882,336</b>	<b>\$ 3,117,664</b>	<b>\$ -</b>

### Evaluation Committee Use Only:

Reviewed and Approved By:

Requesting Department

Auditing

Purchasing

Date

Date

Date

Final Approval

#### Version

Draft

Revised

Accepted