
**Town of Eatonville**

**Public Works Department**

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## Water Supply System

# Action Plan

**including**

**Water Treatment Plant Building Replacement, Water Main Replacement, Water Tower Maintenance**

**&**

**Kennedy Blvd. Widening Project Schedule**

1/30/2024

Prepared by:

Valerie W. Mundy, P.E. – Public Works Director

## Purpose

The purpose of this report is to identify the status of the Water Supply System for the Town of Eatonville and to present the 10-Year Water Supply Facilities Work Plan (WSFWP) and its relationship with the Kennedy Blvd. Widening Project. The WSFWP, as prepared by CPH, is detailed in a separate document.

It is required is for the Town Council to adopt this 10-yr WSFWP into the Town's Comprehensive Plan by reference through a resolution.

This report also documents the status of the Consent Order OGS Case No. 22-2847.

The existing CDBG MIT Grant and special SRF Funding for Hurricane Ian (DW SRF) has been sought to implement all water supply infrastructure improvements discussed in this report.

### Summary of Improvements

| Item | Description | Date | Cost | Funding Source | Comment |
|---|---|---|---|---|---|
| O&M #1 | Exercise Valves | 1/2024 | $25,000 | O&M | Complete |
| O&M #2 | Maintenance of 200,000 Gallon Elevated Tank | 2/2024 | $418,030 funded over 5 years | O&M | Under contract. |
| | | | | | |
| CIP #1 | Design PVC water main along Kennedy Blvd. from Lake Weston to Keller Rd. Figure 9-1 | 8/2024 | TBD | DW SRF or CDBG MIT grant | Required before Phase 1 Kennedy Blvd. widening project |
| CIP #2 | Replace old A/C pipe with new 16" WM Figure 9-1 | 12/2024 | TBD | DW SRF or CDBG MIT grant | Required before Phase 2 Kennedy Blvd. widening project |
| CIP #3 | Modify Consumptive Use Permit (CUP) to meet potable water demands. | TBD | TBD | | |
| CIP #4 | Increase well pumping rate capacity from 1000 gpm to 2300 gpm | TBD | TBD | DW SRF or CDBG MIT grant | |
| CIP #5 | Design/Construct new WTP to refurbish/replace existing WTP | 4/2025 | $3M | CDBG MIT grant | |

| | | | | | |
|---|---|---|---|---|---|
| CIP #6 | Upsize pipes to improve fireflow reliability. | 2025 | TBD | DW SRF or CDBG MIT grant | $14.5 M submitted |
| CIP #7 | Design/Construct/Test Lower Floridan Aquifer (LFA) to meet demands beyond 2025 | 2025 | TBD | DW SRF | $14.5 M submitted |
| CIP #8 | Emergency interconnect with Maitland | 2026 | TBD | DW SRF | $14.5 M submitted |

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## ACTION: CLOSE OUT FDEP CONSENT ORDER OGS CASE NO. 22-2847

The Town has met all compliance requirements of the consent order case, including the P-2 In-kind project, accepted by FDEP on October 4, 2023. This in-kind project was accepted in lieu of the $13,125 in civil penalties. Final documentation is in progress and will be submitted to FDEP on on 2/5/2024 for final closeout.

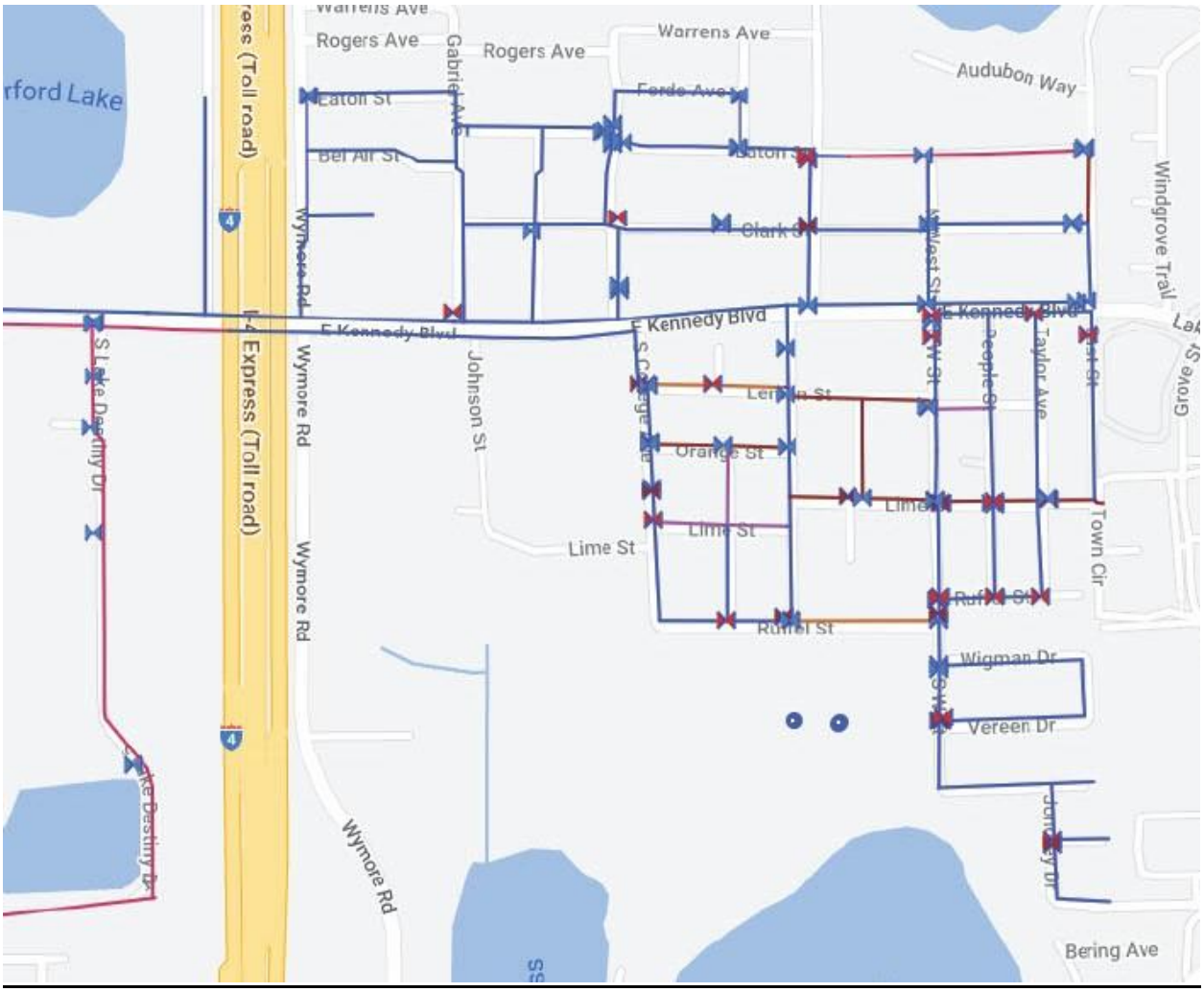
The project used for the P2 In-kind is the generator refurbishment and relocation project for the Vereen and Campusview lift stations, started in September 2023. All generators have been relocated and refurbished by vendor Detroit Diesel along with electrical and general contractors Scott Electrical Contractors and Stephenson Construction. All lift stations have back up emergency power to ensure the lift stations will operate in the event of a power shutdown.

# ACTION: OPERATION AND MAINTENANCE PROJECTS

## Operations and Maintenance Project #1 – Valve Exercise Program

A valve exercising program was performed on the Town's water distribution system during the month of December by Hydromax. By exercising valves, we were able to identify the valves that were inoperable and require replacement. Many of the valves at critical locations shown in the exhibit below in red, were found to be inoperable. These valves requiring replacement will be scheduled with future pipe replacement capital improvements.

**East Valves**



**West Valves**


According to the National Environmental Services Center, it is recommended that water systems exercise their valves at least once every two years, if not annually. However, some valves may need to be exercised more or less frequently depending on their location or unusual operating conditions .

Valve exercising is an industry-standard recommendation to help maintain the valves' useful life, safety, and operation . Regular valve exercising can help ensure that the valves will operate when they're needed for a repair on that section of line, to turn off the water to a broken line . Not being able to shut down a section of pipe only hinders the repairs.

## Inoperable Valves (partial list)

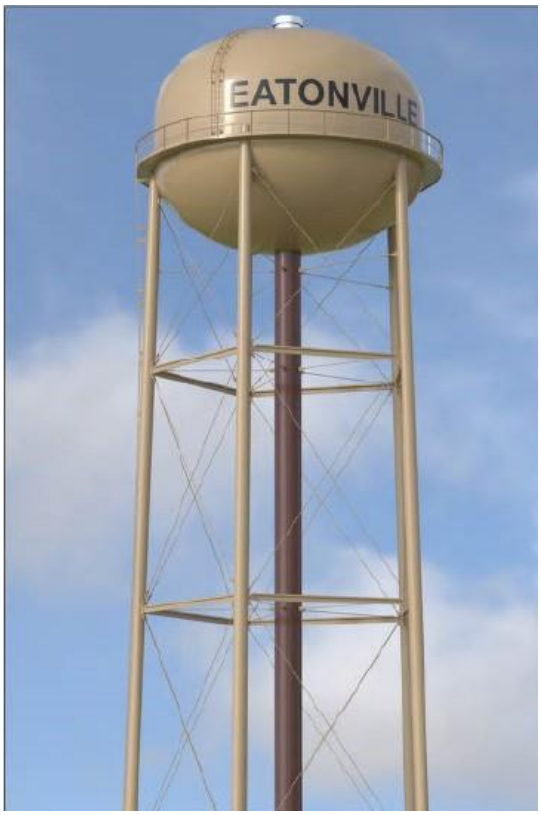
| ValveID | Inspector | InspectDate | Street Name | Operating ConditionID | Surface CoverID |
|---|---|---|---|---|---|
| **WATERVALVE_SE_009** | Nick Oliver | 1/11/2024 12:46 | College Ave S | Inoperable | Asphalt |
| **P1-HF12** | Nick Oliver | 1/11/2024 14:12 | Lemon St | Inoperable | Concrete |
| **WATERVALVE_SE_074** | Nick Oliver | 1/12/2024 19:42 | Lime St | Inoperable | Asphalt |
| **WATERVALVE_SE_112** | Nick Oliver | 1/12/2024 18:37 | Berthann Ln | Inoperable | Asphalt |
| **WATERVALVE_SE_104** | Nick Oliver | 1/12/2024 18:23 | Ruffell St | Inoperable | Concrete |
| **WATERVALVE_SE_012** | Nick Oliver | 1/12/2024 13:49 | S College Ave | Inoperable | Concrete |
| **P1-HF14** | Nick Oliver | 1/12/2024 19:42 | Lime St | Inoperable | Asphalt |
| **P1-HF17** | Nick Oliver | 1/12/2024 16:02 | Lime St | Inoperable | Concrete |
| **P1-HF18** | Nick Oliver | 1/12/2024 16:14 | Lime St | Inoperable | Concrete |
| **WATERVALVE_SE_071** | Nick Oliver | 1/16/2024 13:20 | People St | Inoperable | Concrete |
| **WATERVALVE_NE_081** | Nick Oliver | 1/16/2024 19:16 | N E St | Inoperable | Concrete |
| **WATERVALVE_NE_035** | Nick Oliver | 1/16/2024 15:25 | Clark St | Inoperable | Concrete |
| **WATERVALVE_SE_085** | Nick Oliver | 1/16/2024 14:15 | S E St | Inoperable | Concrete |
| **WATERVALVE_NE_017** | Nick Oliver | 1/16/2024 15:12 | Clark St | Inoperable | Concrete |
| **WATERVALVE_NE_078** | Nick Oliver | 1/16/2024 14:37 | N E St | Inoperable | Asphalt |
| **WATERVALVE_SE_089** | Nick Oliver | 1/16/2024 13:50 | People St | Inoperable | Brick |
| **P1-HF20** | Nick Oliver | 1/16/2024 16:16 | Gabriel Ave | Inoperable | Concrete |
| **P1-HF25** | Nick Oliver | 1/16/2024 13:44 | People St | Inoperable | Concrete |
| | | | | | |

## Operations and Maintenance Project #2 – West Water Tower Maintenance

The contract for the West Water Tower maintenance was executed on February 15, 2022. The work engaged Utility Service, Inc. and the contract was later assigned to USG, Inc. This work was for the repair and maintenance of the 200,000 gallon elevated water storage tank.

**Condition of Existing West Elevated Water Storage Tower**

**Proposed improvements to the existing West Elevated Water Storage Tower**



**West Elevated Water Storage Tower Schedule**

A. Preliminary coordination activities with vendors including Biometrics, Process Control, Inc., CPH Engineers and USG, Inc (Tank Contractors) - **(December 1 – January 29, 2023)**
    1. Ensure all systems at water plant are functioning
    2. Exercise valves
    3. Conduct fireflow demonstrations to meet fireflow demands and pressures
    4. Coordinate with Lake Weston Apartments maintenance personnel
    5. Update SCADA programming to ensure monitoring of water system is functioning

B. Westside Storage Tank Refurbish & Repair **(February 12- May 3, 2024)**
    a. Town issues Notice to Proceed **– (February 12-19, 2024)**
    b. Drain Water Tower
    c. Interior Repairs, Blasting and Priming
    d. Interior Stripe Coating
    e. Interior Finish Coating
    f. Exterior Blast & Priming
    g. Exterior Stripe
    h. Exterior Finish Coat
    i. Exterior Logo
    j. Disinfection & Closeout
    k. Fill and Reconnect storage tank to system **(May 3, 2024)**

**Note: During the maintenance process, the Tower will be covered in a curtain for protection of the environment. See photos below:**

## Capital Improvements Recommendations:

The 10-yr Water Supply Study shown in a separate document, summarizes major capital improvements necessary to develop, treat, and distribute water for the period of 10 years. The proposed capital improvements are based on the projected demands to supply source water and meet treatment, storage and pumping needs to 2040.

4.1 Major Capital Improvements in CIP Budget

The total probable project cost to implement the proposed projects is approximately $30 Mil over the next 10 years.

Major improvements in the current CIP budget identified in this WSFWP to meet future demands include the following:

### Capital Improvements Projects

CIP #1 – Figure 9-1

Design and replace pvc pipe on West Kennedy from Lake Weston Apartments to Keller Rd.

CIP #2 - Figure 9-1

Design and Replace A/C pipe along Kennedy Blvd from East Street to Deacon Jones. $2.0 Mil

CIP #3 - Figure 9-2

Modify Consumptive Use Permit to meet future potable water demands

CIP #4 – Figure 9-2

Increase existing well pumping rated capacity by at least 1,300 gpm (from 1,000 gpm to 2,300 gpm).

a. Conduct well pump yield step drawdown test. $25,000 each = $50,000

b. Upsize well pump and motors. $75,000 each = $150,000

CIP #5 – Figure 9-2

Design/Construct New WTP to refurbish/Replace Existing WTP.

a. Design/Construct new HSP Building (Includes new HSPs, chemical feed systems and diesel generator). $4.6 Mil

b. Design/Construct new 0.5-MG GST. $1.0 Mil

Prototype:  City of Orlando Downtown Lift Station #1.  This building was designed to blend in with the residential environment.

The Town of Eatonville's new water treatment plant building will make the building habitable for operators and other personnel maintaining the plant.

Sample Photos:

CIP #6 – Figures 9-3/9-4

Upsize lines to provide fire flow reliability – Eatonville East

CIP #7 – Figure 9-3

Modify CUP limit to 0.420-mgd AADD relative to the CFWI 2025 UFA limitations.

a. Permit LFA well to meet future demands. Includes Extended Period Simulation (EPS) hydrogeologic modeling impact evaluation. $75,000

b. Design/Construct/Test LFA well to meet demands beyond 2025. $2.0 Mil

CIP #8A/B – Figure 9-4

Explore opportunity to provide an emergency interconnect with the City of Maitland

# ACTION: State Revolving Fund Hurricane Ian – Request for Inclusion Grant Application

Application was made on December 31, 2023 for the Florida Department of Environmental Protection, Request for Inclusion in the Drinking Water Priority List. This was a special funding issue for municipalities impacted by Hurricane Ian. The amount requested is $14.5 Million.

Additional technical assistance for this application was provided by SERCAP.

# ACTION: Kennedy Blvd. Widening Project

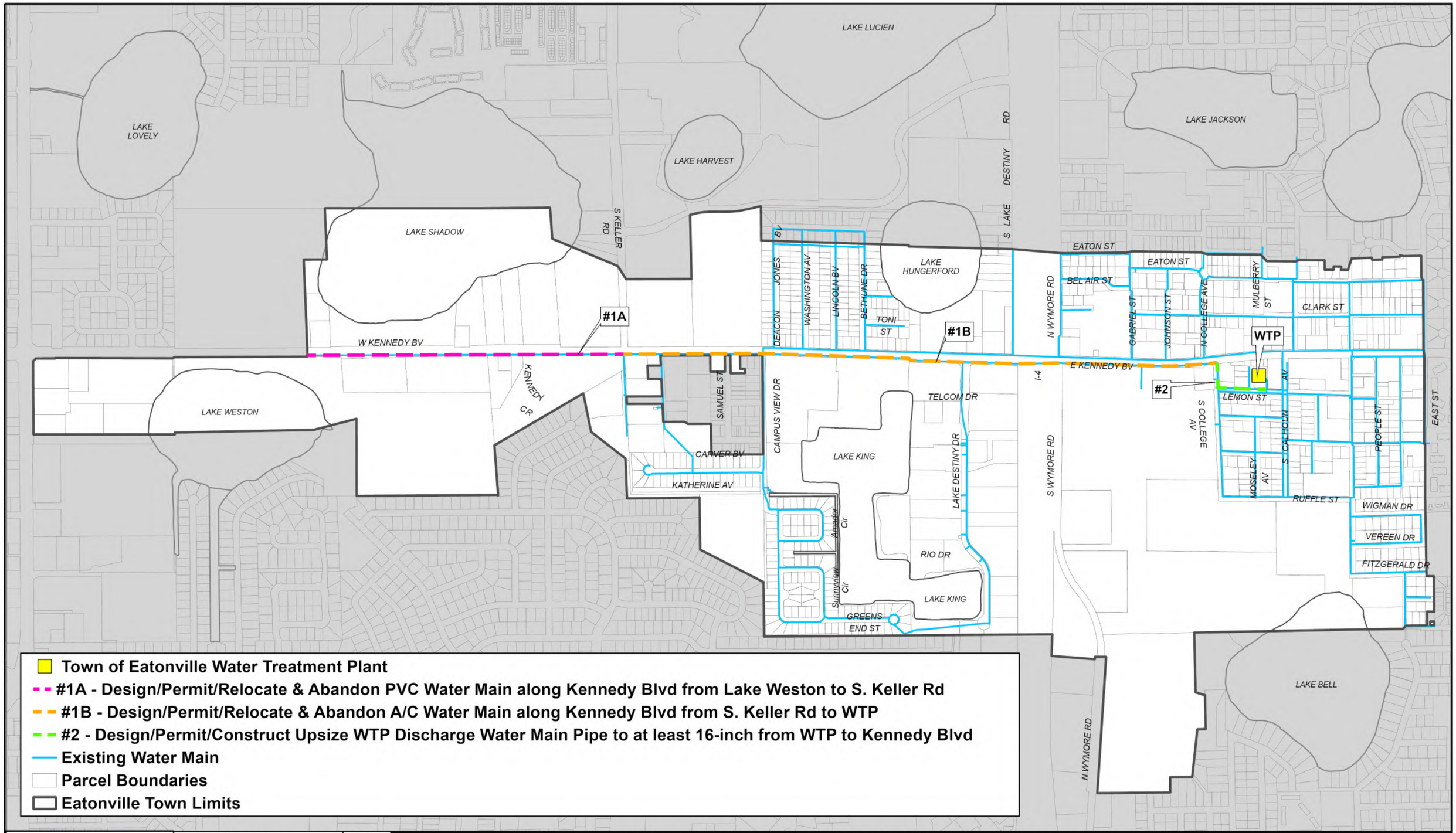
Through our communications with Orange County Public Works Department, we were notified that the design plans are complete, and construction is planned as follows:

## Kennedy Blvd. Widening Construction

| Phase | Limits | Construction Start | Construction End |
|---|---|---|---|
| **Phase 1** | All American Blvd to west of Keller Blvd | October 2024 | October 2026 |
| **Phase 2** | West of Keller Rd. to Wymore | October 2026 | October 2028 |

Note: Dates are estimated and are a function of acquisition and bidding activity.

Note: All watermain replacement within the limits of the Kennedy Blvd. Phase 1 widening project, should be currently scheduled for improvement and funded during the 2024 calendar year.




- Town of Eatonville Water Treatment Plant
- #1A - Design/Permit/Relocate & Abandon PVC Water Main along Kennedy Blvd from Lake Weston to S. Keller Rd
- #1B - Design/Permit/Relocate & Abandon A/C Water Main along Kennedy Blvd from S. Keller Rd to WTP
- #2 - Design/Permit/Construct Upsize WTP Discharge Water Main Pipe to at least 16-inch from WTP to Kennedy Blvd
- Existing Water Main
- Parcel Boundaries
- Eatonville Town Limits

cph

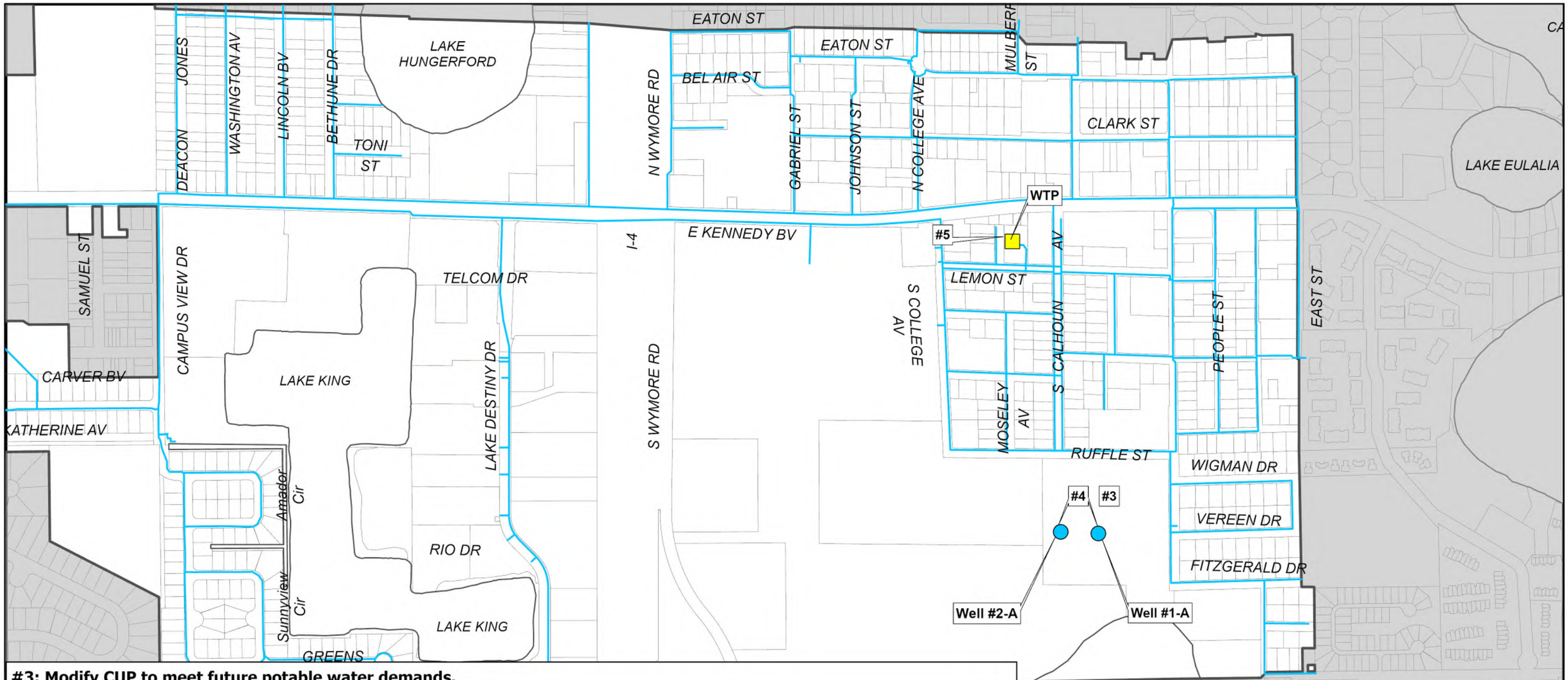
Scale: 1 inch = 800 feet
Date: 1/26/2024
Photo Date: N/A
Project No. E6614
GIS: LEC

N

TOWN OF EATONVILLE POTABLE WATER SYSTEM RECOMMENDATIONS - PHASE 1

TOWN OF EATONVILLE
ORANGE COUNTY, FLORIDA

**FIGURE 9-1**




**#3: Modify CUP to meet future potable water demands.**

**#4:**
- **Increase existing well pumping rated capacity from 1,000 gpm to 2,300 gpm.**
- **Conduct well pump yield step drawdown test.**
- **Upsize well pump and motors.**

**#5:**
- **Design/Construct NEW WTP to Refurbish/Replace Existing WTP.**
- **Design/Construct NEW HSP Building (Includes NEW HSPs, chemical feed systems and diesel generator).**
- **Design/Construct NEW 0.5-MG GST.**

cph

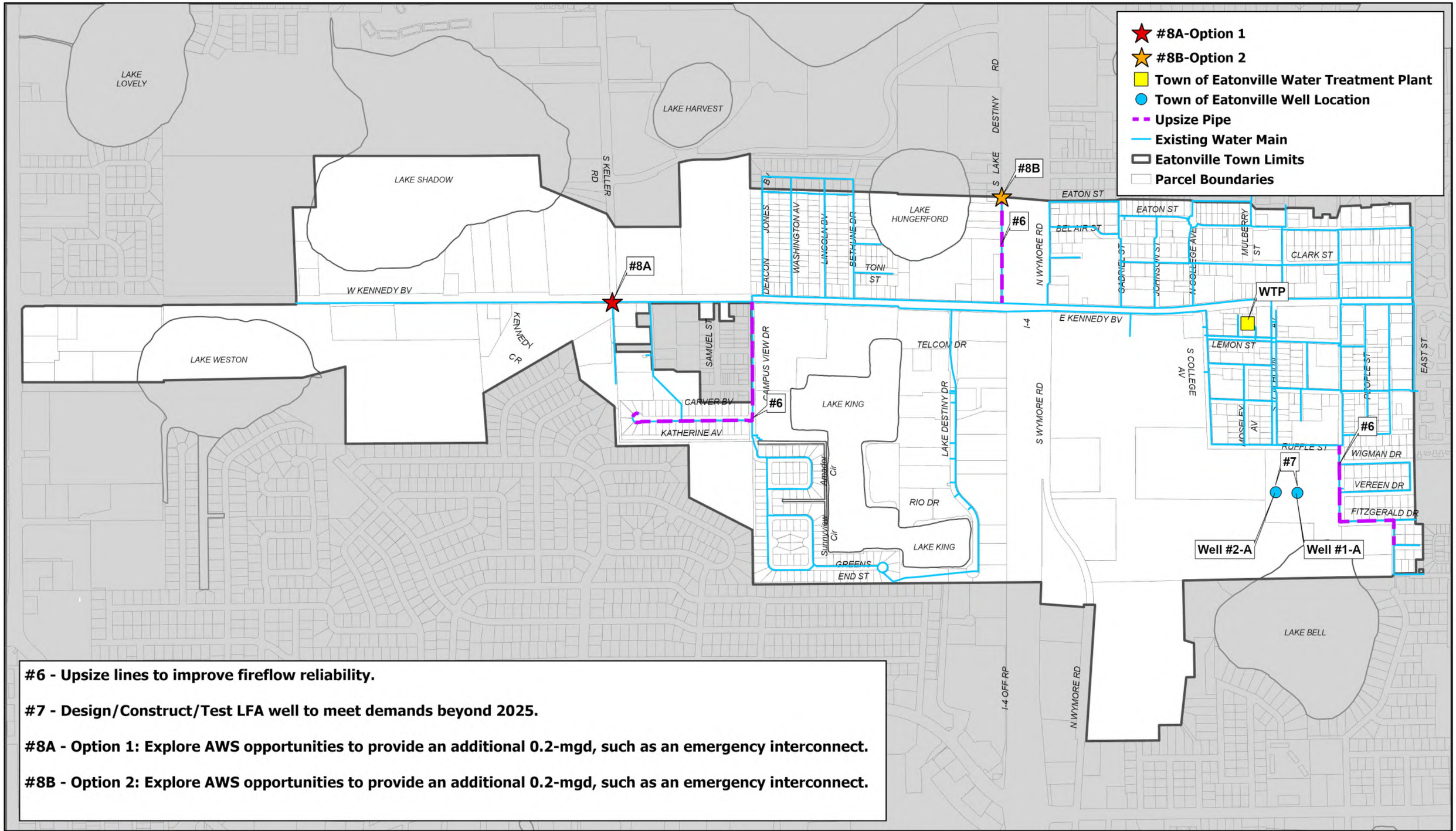
| | |
|---|---|
| Scale: 1 inch = 500 feet | |
| Date: 1/26/2024 | |
| Photo Date: N/A | |
| Project No. E6614 | |
| GIS: LEC | |

N

TOWN OF EATONVILLE POTABLE WATER SYSTEM RECOMMENDATIONS - PHASE 2

TOWN OF EATONVILLE
ORANGE COUNTY, FLORIDA

**FIGURE 9-2**




**#6 - Upsize lines to improve fireflow reliability.**

**#7 - Design/Construct/Test LFA well to meet demands beyond 2025.**

**#8A - Option 1: Explore AWS opportunities to provide an additional 0.2-mgd, such as an emergency interconnect.**

**#8B - Option 2: Explore AWS opportunities to provide an additional 0.2-mgd, such as an emergency interconnect.**

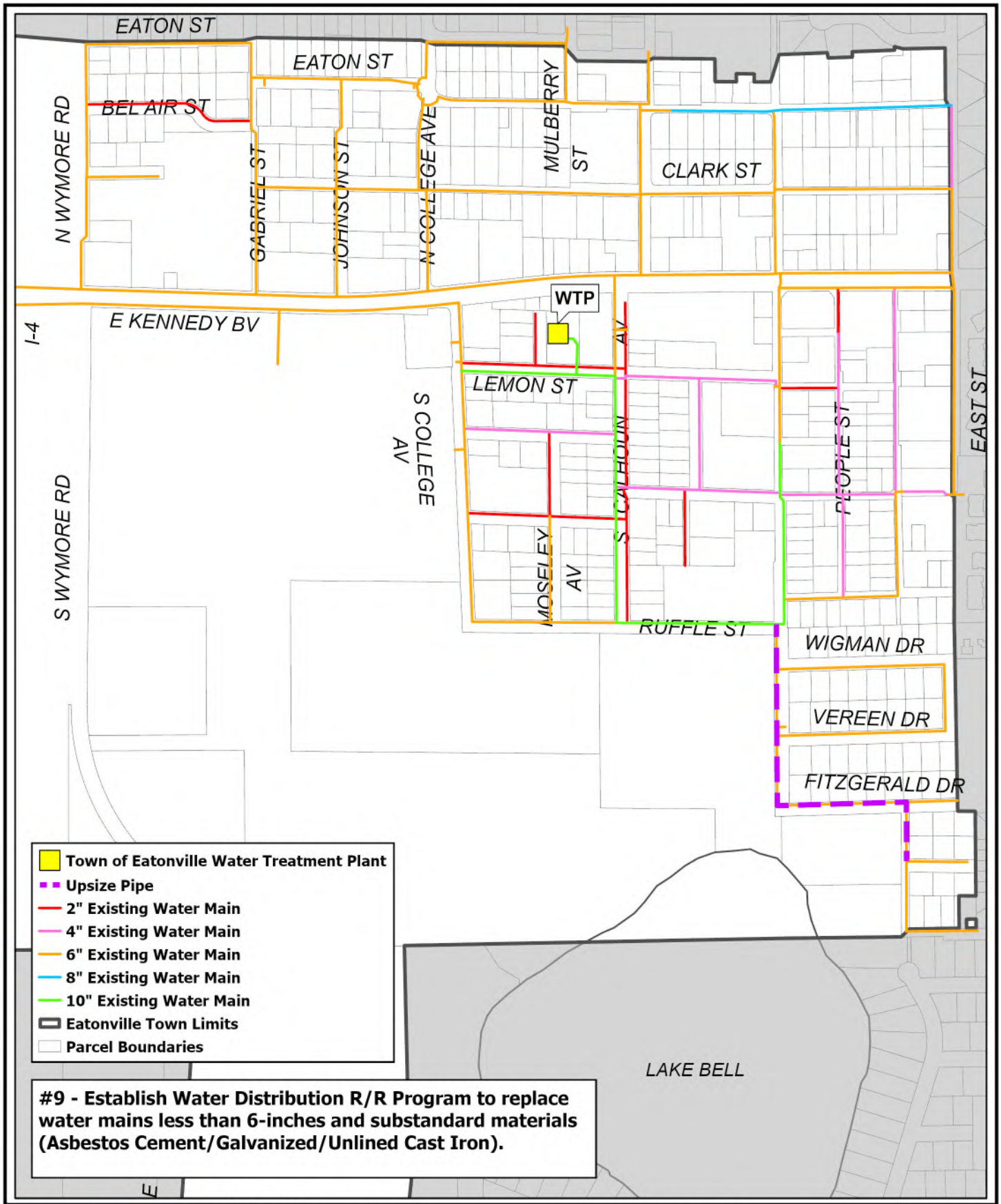
| | |
|---|---|
| Scale: | 1 inch = 800 feet |
| Date: | 1/26/2024 |
| Photo Date: | N/A |
| Project No. | E6614 |
| GIS: | LEC |

N

TOWN OF EATONVILLE POTABLE WATER SYSTEM RECOMMENDATIONS - PHASE 3

TOWN OF EATONVILLE
ORANGE COUNTY, FLORIDA

**FIGURE 9-3**




| | | | | |
|---|---|---|---|---|
| cph | Scale: 1 inch = 500 feet<br>Date: 1/26/2024<br>Photo Date: N/A<br>Project No. E6614<br>GIS: LEC | N | TOWN OF EATONVILLE<br>SMALL LINE REPLACEMENT PROGRAM<br>TOWN OF EATONVILLE<br>ORANGE COUNTY, FLORIDA | FIGURE 9-4 |

# Florida Department of Environmental Protection

# REQUEST FOR INCLUSION ON THE DRINKING WATER PRIORITY LIST

Drinking Water State Revolving Fund Program
Douglas Building, 3900 Commonwealth Blvd, Tallahassee, Florida 32399-3000

The information in this Request for Inclusion (RFI) application is used to determine project eligibility and priority scoring. The priority score is used to rank projects for placement on the State Revolving Fund (SRF) priority list. Only projects placed on the fundable portion of the priority list receive consideration for a loan. Please note that costs incurred before the adoption of the project on the fundable or waiting portion of the priority list are not eligible for reimbursement.

**1. Applicant's Name and Address.**

Project Sponsor: Town of Eatonville Contact Person: Valerie Mundy, P.E. Title: Public Works Director

307 E Kennedy Blvd.
(street address)

Eatonville Orange 32751
(city) (county) (zip code)

407 576-2642 vmundy@townofeatonville.org
(telephone) (ext.) (e-mail)

Contact Person Address (if different):
(street address) (city) (state) (zip code)

**2. Name and Address of Applicant's Consultant (if any).**

Firm: SERCAP Contact Person: Amanda Giorgio Title: TAP

2222 NW 40th Terrace A
(street address)

Gainesville 32605
(city) (zip code)

289 572-3564 agiorgio@sercap.org
(telephone) (ext.) (e-mail)

**3. Type of Loan Requested in this Application.** (select only one loan category and project type)

| Planning Loan ☐ | Design Loan ☐ | Planning and Design Loan ■ | Construction Loan ■ |
|---|---|---|---|

Project Type: Design/Bid/Build ☐ Design/Build (D/B) ■ Construction Manager at Risk (CMR) ☐

Note: Procurement of professional services must meet the requirements of the Consultants' Competitive Negotiation Act, Section 287.055, F.S.

***Eligibility for a Loan.*** In order to be considered for a priority listing, the following conditions must be met:

- The respondent to this solicitation must qualify as a "project sponsor" as defined in subsection 62-552.200(27), F.A.C.
- The minimum construction loan amount is $75,000.
- The project sponsor must agree to submit biddable plans and specifications within 1-year after execution of the loan agreement to qualify for a combined planning and design loan.
- The project is part of a public water system as defined in subsection 62-552.200(28), F.A.C., and may include drinking water supply, storage, transmission, treatment, disinfection, distribution, residuals management, and appurtenant facilities.

# REQUEST FOR INCLUSION ON THE DRINKING WATER PRIORITY LIST

4. **Median Household Income, Population and Principal Forgiveness Percentage (PF%).** (complete a. through e. below)
   a. Median household income (MHI): $29,667 (current U.S. Census data or verifiable estimates)
   b. State median household income (SMHI): $61,777 (current U.S. Census data)
   c. Population (P) served 2690 = number of service connections 1076 times 2.5 persons per connection to include proposed connections.
   d. Is the project sponsor applying for a planning and/or design loan with principal forgiveness? Yes ■ No ☐. If yes, then PF is 50%. *Only a sponsor that qualifies as a financially disadvantaged small community is eligible for a planning/ design loan with PF.*
   e. Is the project sponsor applying for a construction loan with principal forgiveness? Yes ■ No ☐. If yes, then PF% is calculated using the formula: *PF% = 1760/9 – 160 x (MHI/SMHI) – 7/4500 x P.*

      *Calculate PF% for a construction loan using the above formula:* 90 *(minimum 20% and maximum 90%).*
      *If the sponsor is connecting a financially disadvantaged small community as defined below, a maximum 50% PF is available.*

Please note that the calculated PF% is an estimate and the actual percentage will be determined by the Department. The amount of loan available with principal forgiveness for a project is dependent upon the amount of funds allocated for the fiscal year.

***Eligibility for a loan with principal forgiveness.*** In order to be considered for a loan with principal forgiveness, the following conditions must be met:

- The project sponsor must qualify as a financially disadvantaged small community public water system as defined in Rule 62-552.200, F.A.C., unless the sponsor is specifically exempted from this requirement.
- The median household income (MHI) of the sponsor's service area must be less than the state median household income (SMHI) as reported from the current U.S. Census data or from verifiable estimates, unless the sponsor is specifically exempted from this requirement.
- The population (P) of the sponsor's service area must be less than 10,000 (to include the population from the project's proposed future connections), unless the sponsor is specifically exempted from this requirement.
- The project sponsor is allowed only one open loan with principal forgiveness. A loan is deemed open until the final disbursement of the project has been paid by the department.
- A project sponsor is eligible for a construction loan with principal forgiveness (maximum 50%) if connecting a community with less than 250 residential wells; an existing public water system with less than 250 service connections; or a separate, non-interconnected public water system owned by the sponsor. The project area must qualify as a financially disadvantaged small community.
- A financially disadvantaged community with a population of 10,000 or more is eligible for a construction loan with 20% principal forgiveness if dollars are available after funding all eligible financially disadvantaged small communities.
- A project sponsor that is a for-profit entity is not eligible for principal forgiveness.
- A construction project for a financially disadvantaged small community that uses a Construction Manager at Risk delivery method is ineligible for principal forgiveness.

5. **Interest Rate Percentage.**

The interest rate for a loan with the Department is determined using the following formula:

% of MR = 40 x (MHI/SMHI) + 15 % of MR = Percentage of Market Rate.

Calculate and enter the % of MR below:

% of MR for a loan: 35 (35% ≤ % of MR ≤ 75%)

Please note that the calculated % of MR is an estimate and the actual interest rate will be determined by the Department. The interest rate for a loan shall not be less than 0.2 percent.

6. **Base Priority Score.** Each project shall receive a base priority score (BPS) dependent on the weighted average of its components. The BPS shall be determined using the below formula where CPS means the component priority score and CCC means component construction cost.

$$BPS = [CPS_1 \times CCC_1 + \ldots + CPS_n \times CCC_n]/\text{Total Construction Cost}$$

*Select each component and component score in Table 1 below that apply to the project, enter the estimated construction costs, and calculate the base priority score.*

- Component priority scores that are based on contaminant levels must be justified by sample analytical data (see exception in notes at bottom of Table 1). The date of sample collection must be less than 24-months from the submittal date of the Request for Inclusion.
- The project sponsor must provide documentation demonstrating that contaminant levels (e.g. disinfection byproducts) cannot be reduced by adjusting system operations, if applicable.

# REQUEST FOR INCLUSION ON THE DRINKING WATER PRIORITY LIST

- A compliance-1 category component score of 400 points, if selected in Table 1, must be supported by documentation demonstrating the need for the project; otherwise, a component score of 300 points shall be assigned.

*Table 1*

| **Project Component** (*select all components that apply*) | **Component Priority Score** | **Component Construction Cost** |
|---|---|---|
| **Acute Public Health Risk** | | |
| ☐ **1a.** E-Coli or Fecal Coliform Exceed MCL (62-550.310(5), F.A.C.) | 800 points ☐ | _____ |
| ☐ **1b.** Nitrate, Nitrite, or Total Nitrogen Exceed MCL (62-550.310(1), F.A.C., Table 1) | | |
| ☐ **1c.** Lead or Copper Exceed Action Level (62-550.800, F.A.C) | | |
| ☐ **1d.** Surface Water Filtration/Disinfection Noncompliance (62-550.817(2), F.A.C.) | | |
| **Potential Acute Public Health Risk** | | |
| ☐ **2a.** Nitrate, Nitrite, or Total Nitrogen 50% of MCL (62-550.310(1), F.A.C., Table 1) | 700 points ☐ | _____ |
| ☐ **2b.** Microbiologicals Exceed MCL (62-550.310(5), F.A.C.) | | |
| ☐ **2c.** Surface Water Enhanced Filtration/Disinfection Noncompliance (62-550.817(3), F.A.C.) | | |
| ☐ **2d.** State Health Certification of Acute Health Risk, Unregulated Microbiological Contaminant | | |
| ☐ **2e.** Violation of Disinfection Requirements (62-555.320(12), F.A.C.) | | |
| **Chronic Public Health Risk** | | |
| ☐ **3a.** Inorganic/Organic Contaminant Exceed MCL (62-550.310(1) & (4), F.A.C., Tables 1,4,5) | 600 points ■ | _____ |
| ■ **3b.** Disinfection Byproducts Exceed MCL (62-550.310(3), F.A.C., Table 3) | | |
| ☐ **3c.** Radionuclides Exceed MCL (62-550.310(6), F.A.C) | | |
| **Potential Chronic Public Health Risk** | | |
| ☐ **4a.** Inorganic/Organic Contaminant 50% of MCL (62-550.310(1) & (4), F.A.C., Tables 1,4,5) | 500 points ☐ | _____ |
| ☐ **4b.** Disinfection Byproducts 80% of MCL (62-550.310(3), F.A.C., Table 3) | | |
| ☐ **4c.** State Health Certification of Chronic Health Risk, Unregulated Chemical Contaminant | | |
| **Compliance-1 Projects** (***documentation must be attached or default to Compliance-2 score***) | | |
| ■ **5a.** Infrastructure upgrades to facilities undersized, exceed useful life, or with equipment failures | 400 points ■ | 14,565,300 |
| ☐ **5b.** Insufficient water supply source, treatment capacity, or storage | | |
| ☐ **5c.** Water distribution system pressure less than 20 psi | | |
| ☐ **5d.** Eliminate dead ends and provide adequate looping in a distribution system | | |
| ☐ **5e.** Replace distribution mains to correct continual leaks, pipe breaks, and water outages | | |
| ☐ **5f.** New water system or extension of existing system to replace contaminated or low yield wells | | |
| ☐ **5g.** Lack of significant safety measures (e.g. chemical containment) | | |
| ☐ **5h.** Secondary Contaminant MCL Exceedance (62-550.320, F.A.C.) | | |
| ☐ **5i.** Drinking water supply project as defined in 403.8532(9)(a), F.S. | | |
| **Compliance-2 Projects** | | |
| ☐ **6a.** Treatment, Storage, Power, and Distribution Requirements (62-555.320, F.A.C) | 300 points ☐ | _____ |
| ☐ **6b.** Minimum Required Number of Wells (62-555.315(2), F.A.C) | | |
| ☐ **6c.** Well Set-back and Construction Requirements (62-555.312 and 62-555.315, F.A.C) | | |
| ☐ **6d.** Cross-Connection Control Requirements (62-555.360, F.A.C) | | |
| ☐ **6e.** Physical Security Project Documented in a Vulnerability Analysis | | |
| ☐ **6f.** Consolidation or regionalization of public water systems | | |
| ☐ **6g.** Water or Energy Conservation Project | | |
| ☐ **7. All Other Projects** (***including land or public water system acquisition projects***) | 100 points ☐ | _____ |

*Note:* Item 2d. and 4c. of Table 1 requires a State Health Officer to complete the form "Certification of a Public Health Risk". If 50% or more of wells meet contaminant levels from Table 1 above, then select the appropriate health risk category in Table 1. Flooded wells and wells under the direct influence of surface water are considered an unregulated microbiological potential acute public health risk and require documentation of occurrence in lieu of sampling data.

7. **Affordability Score.** The extent of affordability existing in a small community to be served by the project shall be reflected in the priority score. Points shall be awarded based upon two affordability criteria: median household income (MHI) and population (P) served. These points are to be added to the base priority score. Calculate the affordability score using the following formulas:

*Affordability Score = (MHI Score + Population Score)*

*MHI Score = 100 x (1.00 – MHI/SMHI),* zero ≤ MHI score ≤ 75, rounded to nearest whole number

*Population Score = 50.0 - (P/200),* population score ≥ zero, rounded to nearest whole number

# REQUEST FOR INCLUSION ON THE DRINKING WATER PRIORITY LIST

8. **Water Conservation Score.** A project sponsor with a qualifying water conservation project is eligible to receive an additional 100 points added to their base priority score if the sponsor provides a water conservation plan in accordance with EPA's Water Conservation Plan Guidelines document number EPA-832-D-98-001, August 6, 1998.

9. **Total Priority Score.** Total priority score equals the base priority score plus the affordability score. (complete a. through d. below)

   a. Base priority score: 1000 points.
   b. Affordability score: 89 points (> zero).
   c. Water Conservation score: _____ points.
   d. Total priority score: 1089 points (sum of items a. and c.)

10. **Estimated Project Cost.** (complete a. through i. below)
(enter $0 if activity is not applicable)

| *Project Activity* | *Cost* |
|---|---|
| a. Planning. | |
| b. Design (not applicable if a D/B project). | |
| c. Eligible land (necessary land divided by total land times purchase price). | |
| d. Constr., equip., material, demo. & related procurement (include design if D/B project). | 12,623,000 |
| e. Construction contingency (10% of 'd', only applicable for Design/Bid/Build projects). | 1,262,300 |
| f. Technical services during construction and after bid opening. | 500,000 |
| g. Asset management plan per 62-552.700(7), F.A.C. | 180,000 |
| h. *Total project costs* (sum of a. through g.). | 14,565,300 |
| i. *Loan amount requested* by the sponsor in this RFI (assume no principal forgiveness). | 14,565,300 |

*List all funding sources* (including grants for this project): _____

11. **Project Schedule.** (complete a. through d. below)

| *Project Activity* | *(M/D/YY)* |
|---|---|
| a. Submit planning documents. | 3/1/24 |
| b. Submit design/bid documents or RFQ/RFP for CMR & D/B projects. | 10/1/24 |
| c. Start construction. | 11/1/24 |
| d. Complete construction. | 10/1/26 |

12. **Project Information.** Provide the following information, if applicable.
*(select all items below that are attached to this RFI)*

- ☒ Project description, location with lat/long (degrees), water system PWS ID, and project need *(this is a required attachment)*.
- ☒ Map of city and county limits, existing and proposed service area, and project area *(this is a required attachment)*.
- ☒ Lab data, lab data with operational records, or substantiated documentation in lieu of lab data for public health risk projects.
- ☒ Certification of a Public Health Risk form completed by a State Health Officer.
- ☒ Supporting documentation for projects identified under the Compliance-1 project categories from Table 1 above.
- ☒ Project schedule showing plans and specs completion within 1-year of the execution date of a planning/design loan.
- ☐ Supporting documentation if MHI not taken from current U.S. Census data.
- ☒ Water Conservation Plan in accordance with EPA guidelines.

13. **Certification by an Authorized Representative.** I certify that this form and attachments have been completed by me or at my direction and that the information presented herein is, to the best of my knowledge, accurate and true.

| (signature) | (date) | (e-mail) |
|---|---|---|
| Valerie Mundy | 12/26/23 | Vmundy@townofeatonville.org |
| (print name) | (print title) | |
| Valerie Mundy | Public Works Director | |

*Email the completed RFI form with attachments to* SRFRFI@FloridaDEP.gov *or mail to the Florida Department of Environmental Protection, State Revolving Fund Program,* 3900 Commonwealth Blvd, Tallahassee, Florida 32399-3000.

# PROJECT DESCRIPTION

## Town of Eatonville, Florida

## Request for Inclusion on the 2024 FDEP Drinking Water Priority List

### Project Description

| | |
|---|---|
| Project Sponsor | Town of Eatonville |
| PWS ID | 3480327 |
| Location | Latitude 28.61472000<br>Longitude -81.38062000 |
| Map | Attached |
| Description | Project funding is requested to design and construct hardened water wells, well pumps and piping to supply the City's residents with potable water that is reliable during and immednately after storm events as well as addressing the DBP compliance consent order. |
| Amount Requested | $14,565,300 |
| | |

### Background

The Town of Eatonville is a historically black community, established by formerly enslaved people ten years after the Emancipation Proclamation, in Central Florida. The town owns the public drinking and wastewater system, as well as stormwater infrastructure including Lake King, which serves as both a recreational area and a stormwater basin. Eatonville's median household income is $27,917, which is less than half of the state median household income, and this limited access to resources has exacerbated the long-term impacts of hurricanes and other natural disasters for residents.

Eatonville was hit by hurricanes and tropical storms in the years before Hurricane Ian, including by Hurricane Irma and Tropical Storm Cristobal. Impacts from these storms included wind damage to homes, power outages, downed trees, flooding that made roads impassable, and broken water mains.

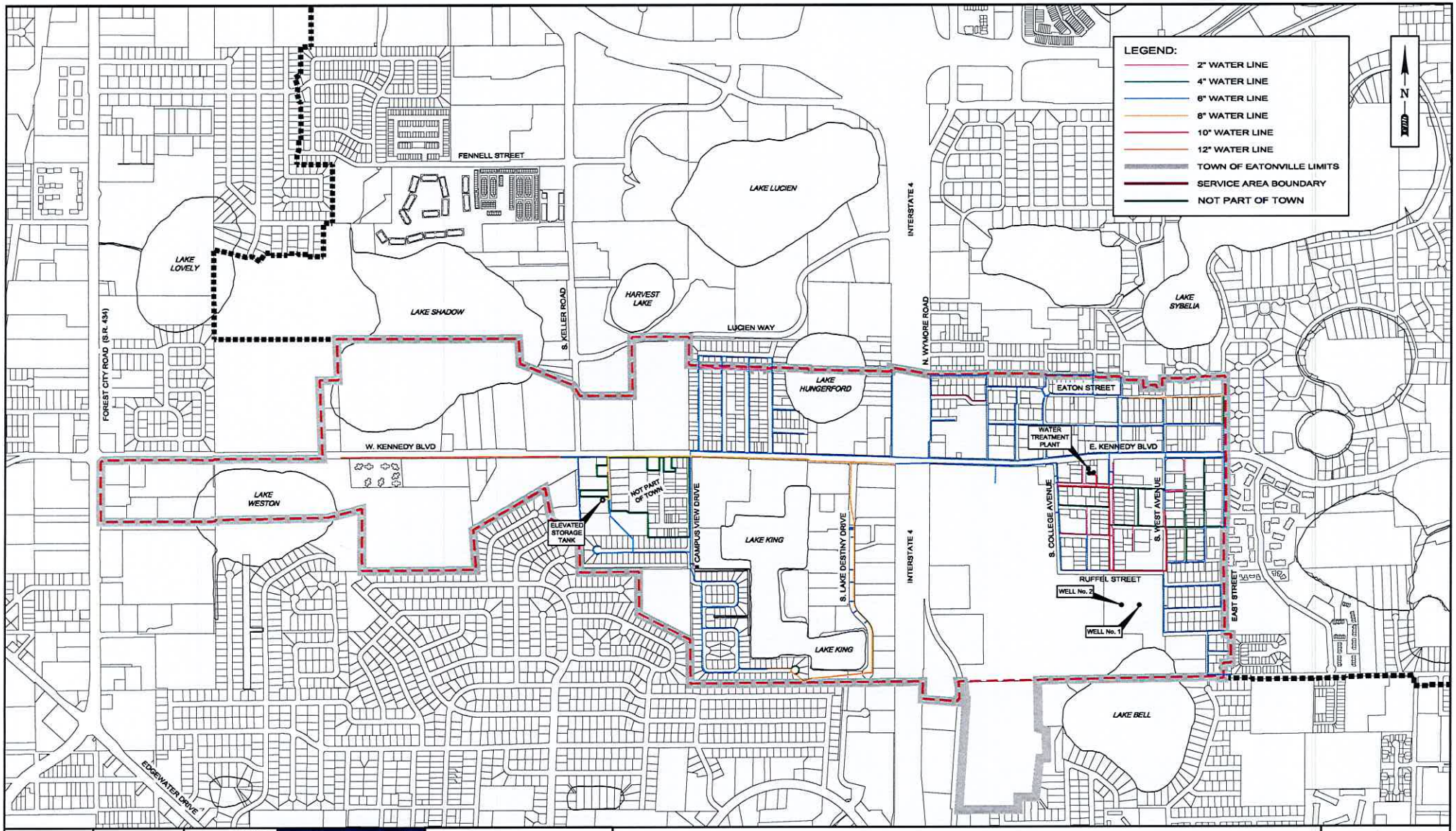
Hurricane Ian had all of the above impacts, with the addition of even greater flooding of roads, the likely incursion of stormwater into waste water lines, the flooding and overflow of Lake King and other stormwater basins and swales in the area, and residential household flooding. During and directly after the storm, the roads to the drinking water well generator were rendered impassable, so when we lost power, we were not able to refuel the emergency generator for the water supply wells.

The damages and impacts described above are typical for storm-related events in Central Florida, and due to the frequency of these events, the water facilities need to be easily accessible for servicing or repairs in the direct aftermath of flooding. This is hampered, however by the location of the town's wells

and pumps in a low-lying flood-prone area adjacent to a 100-year floodplain. Additionally, the water treatment facility does not meet current building code requirements for hurricane resiliency. The ability of the town's water system to provide continuous service for drinking water and firefighting water during and after another hurricane of the same or greater magnitude as Ian is not guaranteed, and is in fact likely to be impaired entirely.

In order to remedy this vulnerability, and make the Eatonville's drinking water system reliably resilient against hurricane damage in the future, this project has two components. First, to either move the well pump generator, or to regrade the road to and from the generator, so that even in flood conditions, it can be refueled. The second is to rebuild the water treatment plant building up to contemporary hurricane hardening standards, and to include in this rebuild any necessary flood prevention elements. Both of these projects require design and construction components, but as you can see from the timeline included, both construction elements can be undertaken within the year.

# MAP




| | | | |
|---|---|---|---|
| Designed by: | X | Date: 6/19/23 | |
| Drawn by: | GCM | Job No. E6613 | |
| Checked by: | MEI | File:Distribution | |
| Approved by: | X | © 2023 | |
| Scale: | 1" = XX' | | |

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# TOWN OF EATONVILLE

## WATER DISTRIBUTION SYSTEM
## WATER SUPPLY FACILITIES WORK PLAN

FIGURE **1**

# SUPPORTING DOCUMENTATION FOR PROJECTS

# Request for Inclusion on the 2024 Drinking Water Priority List

| # | Activity | Estimated Start Date | Budget |
|---|---|---|---|
| 1 | **Modify CUP Limit to .420-mgd AADD relative to the CFWI 2025 UFA limitations** | | |
| 1a | Permit LFA well to meet future demands. Includes Extended Period Simulation (EPS) hydrogeologic modeling impact evaluation | | $ 75,000.00 |
| 1b | Design/Construct /Test LFA well to meet demands beyond 2025 | | $ 2,000,000.00 |
| 2 | **Increase well pumping rated capacity by at least 1,300 gpm (from 1,000 gpm to 2,300 gpm)** | | |
| 2a | Conduct well pump yield step drawdown test. | | $ 50,000.00 |
| 2b | Upsize well pump and motors | | $ 150,000.00 |
| 3 | **Design/Construct New WTP to refurbish/Replace existing WTP.** | | |
| 3a | Design/Construct new HSP Building (Includes new HSPs, chemical feed systems and diesel generator) | | $ 4,800,000.00 |
| 3b | Design/Construct new 0.5-MG GST | | $ 1,200,000.00 |
| 4 | **Design/Construct/Upsize WTP discharge water main pipe from WTP to Kennedy Blvd including 16-inch from WTP to Lemon St. , 12-inch along Lemon St., 10-inch along College Avd.** | | $ 213,000.00 |
| 5 | **Design and replace A/C pipe along Kennedy Blvd. from East St. to Eacon Jones** | | $ 2,500,000.00 |
| 6 | **Prepare PDR for upsizing to 8-inch along selected roadways** | | **$ 35,000.00** |
| 7 | **Establish Water distribution R/R program to replace water mains less than 6-inches an substandard materials (Asbestos Cement/Galvanized/Unlined Cast Iron)** | | **$ 500,000.00** |
| 8 | **Conduct Impact Fee and Rate Study to establish impact fees for new development and a tiered rate structure for high water users** | | **$ 25,000.00** |
| 9 | **Regrade road around wells to ensure access for fuel delivery to wells during flood conditions.** | | **$ 325,000.00** |
| 10 | Additional Perimeter Hardening and Electronic Security of WTP and Wells | | **$ 750,000.00** |
| | | | **$ 12,623,000.00** |
| | Construction Contingency @ 10% | | $ 1,262,300.00 |
| | Technical Services during construction and after bid opening | | $ 500,000.00 |
| | Asset Management Plan | | $ 180,000.00 |
| **Total Project Costs** | | | **$ 14,565,300.00** |