

WES TECHNICAL ADVISORY TEAM

June 15, 2023

11:30 AM-1:00 PM

AGENDA

Attendees:

Maryna Asuncion, City of West Linn	Justin Poyser, City of Gladstone
Kyle Bean, WES	Chris Randall, City of Happy Valley
Darren Caniparoli, City of Gladstone	Mike Rice, WES
Jennifer Garbely, City of Milwaukie	Steven Rice, WES
Matt House, WES	Jessica Rinner, WES
Brian Johnson, Johnson City	Nathan Seaver, WES
Zach Koellermeier, WES	Kenny Shultz, City of Oregon City
Erich Lais, City of West Linn	Jeff Stallard, WES
John Lewis, City of Oregon City	Dayna Webb, City of Oregon City
Haakon Ogbeide, WES	Ron Wierenga, WES
Peter Passarelli, City of Milwaukie	

1. Welcome/Introductions
2. Review/Approve minutes from 03/16/2023 meeting
3. Regional I/I Reduction IGA Proposals to be reviewed and voted on:
 - i. City of Milwaukie – Waverly Height Sewer Reconfiguration
 - ii. City of Gladstone - Gladstone Pump Station II Rehab
4. WES CIP 23/28 – Jeff Stallard
5. Oregon City Lateral Rehabilitation Program – Kenny Shultz
6. Round Table Discussion

WES TECHNICAL ADVISORY TEAM

March 16, 2023

11:30 AM-1:00 PM

MINUTES

Attendees:

~~Maryna Asuncion, City of West Linn~~
Kyle Bean, WES
~~Lance Calvert, City of West Linn~~
~~Darren Caniparoli, City of Gladstone~~
Jennifer Garbely, City of Milwaukie
~~Matt House, WES~~
~~Brian Johnson, Johnson City~~
~~Zach Koellermeier, WES~~
Erich Lais, City of West Linn
~~John Lewis, City of Oregon City~~
~~Peter Passarelli, City of Milwaukie~~

Justin Poyser, City of Gladstone
Chris Randall, City of Happy Valley
Mike Rice, WES
~~Steven Rice, WES~~
Jessica Rinner, WES
Nathan Seaver, WES
Kenny Shultz, City of Oregon City
~~Jeff Stallard, WES~~
Dayna Webb, City of Oregon City
Ron Wierenga, WES

1. Welcome/Introductions
2. Review/Approve minutes from 12/15/2022 meeting
 - i. Motion to approve by Jennifer Garbely. Seconded by Dayna Webb. Minutes approved.
3. Regional I/I Reduction IGA Proposals to be reviewed and voted on:
 - i. City of Oregon City – Linn Basin Sanitary Sewer I&I Rehab Project Phase 1
 - ii. City of Oregon City – Linn Basin Sanitary Sewer I&I Rehab Project Phase 2
 - Two projects were recommended for funding or inclusion under the IGA. Kenny reported the overview. Both are within the basins that were given to Oregon City and are eligible. Both are scheduled for construction this summer and fall. Project 1 is a larger CIPP lining project within the McLaughlin neighborhood, which is one of the older portions of town, just a little bit outside of downtown Oregon City heading down Molalla Avenue and Lynn. Project cost is \$2.5-3 million. Project 2 is an open trench replacement project and more localized, just off Lynn Avenue. Project cost is \$1.5-2 million. Both including laterals.
 - Dayna added that the Oregon City Commission recently approved the use of city funds to replace the full extent of the lateral on private property, and that is occurring as they do the main line work.

- All in favor and projects approved.
4. Annual Reports for projects funded under the Regional I/I Reduction Program
 - i. Jennifer asked how much of the IGA funds were dedicated for the projects that were approved so far. She also asked when she should submit a proposal for Waverly. Jessica shared the spreadsheet and advised Jennifer to turn the proposal in as soon as possible because it needs to be approved before the construction starts.
 - ii. Jessica asked Ron about the timing for the I/I funding annual reports to submit to the Advisory Committee. Ron wasn't sure about the exact timing. Jessica will get clarity as well as what is expected to be included in the report and inform the group later.
 5. Round Table Discussion
 - i. Agenda items for the next quarterly meeting:
 - Jennifer has a proposal for Waverly
 - Kenny will probably have the third proposal
 - Chris asked if there are any capital projects update that WES could share. Jessica will ask Jeff to come in and present on project updates.
 - Kenny will also put some information together on the private lateral program and present.
 - ii. Jennifer was wondering what kind of monitoring she would need and asked what people are using for flow meter monitoring.
 - Kenny is using a service from Leeway, who has a sub consultant that's setting up temporary installation, but he wants to move towards permanent installations eventually in Oregon City. WES predominantly does this. He thinks a permanent installation ends up being a long-term better solution.
 - Erich is using ADS Environmental a couple of times for four meters. (Turned out that's the consultant Leeway uses.)
 - Jessica went with ADS as well. She also mentioned that WES has been kicking around the idea of extending the permanent full meter monitoring service to the member communities by working out in agreement with the cities, providing the service, and having all the flow meter data in one spot to share.
 - Dayna shared the example of the traffic signal maintenance IGA the County provides and bills to the cities. She assumes how WES does their

flow meter monitoring is similar to what the County does for traffic lights maintenance and the system is already kind of set up as a model in theory.

- Jessica shared the Claros FSDATA website and showed the WES flow meter data page to show WES' permanent flow meter locations. She is more than happy to share the data WES has.

Meeting adjourned at 11:57 am.

Regional I&I Reduction Program Qualified Proposal Clackamas Water Environment Services

Partner City: City of Milwaukie

Project Name: Waverly Height Sewer Reconfiguration

Date: June 1, 2023

Basin: Milwaukie

Purpose

This document presents a Qualified Proposal to the Clackamas Water Environment Services (District) to participate in cost sharing under the District's Regional I&I Reduction Program, as outlined in the Intergovernmental Agreement Between Water Environment Services and Partner Cities for Regional Inflow and Infiltration Reduction (IGA). Under this program the District has pledged to reimburse 33 percent of actual costs to Partner Cities for Qualified Proposals, as approved by the District.

The City of Milwaukie (City) is currently in the process of procuring a consultant to evaluate the Inflow and Infiltration (I&I) load and prepare a rehabilitation design for a deteriorated wastewater collection system in the Waverly Heights neighborhood of Milwaukie, which is covered in this Qualified Proposal. The City also intends to submit a separate Qualified Proposal covering cost sharing for project construction, but will delay this proposal until after the project design is significantly complete. The City is requesting the District to review the Qualified Proposal presented here and if eligible, provide a letter of approval to the City as described in the IGA.

Project Description

Waverly Heights is a small community within the Milwaukie Basin cited in the Sanitary Sewer System Master Plan for Water Environment Services, prepared in 2019 by Jacobs Engineering. The community resides in the northwest portion of the City of Milwaukie, bordered by 17th Avenue to the east, Waverly Country Club to the north and west, and the Willamette River to the South. The system includes vitrified clay pipe (VCP), concrete pipe (CP), Reinforced Concrete Pipe (RCP), and polyvinyl chloride pipe (PVC), in either 8- or 6-inch sizes. Additional data for the collection system is provided in Table 1, and a map of the existing system is provided in Exhibit A, both of which are included at the end of this proposal.

A 2022 CCTV inspection of the facilities in this area identified several deficiencies in the system including, root intrusion, cracks, sags, and mis-aligned joints. Most of the deficiencies exist in the VCP pipes, with substantial cracking, root intrusion, and misalignment at joints; although roots, sags, and minor cracks exist in the CP and PVC sections as well. These deficiencies are presumed to be a major source of I&I in the area.

To accurately quantify the I&I load, the consultant will collect flow data and conduct an I&I study covering the 2023/2024 wet season. The consultant will use results of this study to develop the rehabilitation design. The design is expected to include Cured-In-Place-Pipe (CIPP) rehabilitation for most of the system, although other options like pipe-bursting or trench and replace may be considered.

Project Schedule

- The estimated schedule for the I&I study and rehabilitation design is Sept. 2023 through Dec. 2024.
- The estimated schedule for the construction phase is April 2025 through Aug. 2025. (A separate grant proposal will be submitted for the construction phase)

Project Costs

- The estimated cost for the I&I study and rehabilitation design is \$582,000.

Table 1: Waverly Heights Wastewater Collection System Data

Data Point	Value	Units
Service Load		
Equivalent dwelling units	30	EDUs
Structures		
Manholes	25	Each
Cleanouts	1	Each
Pipe		
Size		
8" Diameter	3,990	LF
6" Diameter	403	LF
Pipe Material		
Vitrified Clay Pipe (VCP)	1702	LF
Concrete Pipe (CP)	2,154	LF
Reinforced Concrete Pipe (RCP)	463	LF
Polyvinyl Chloride (PVC)	74	LF
Total Linear Feet	4,393	LF

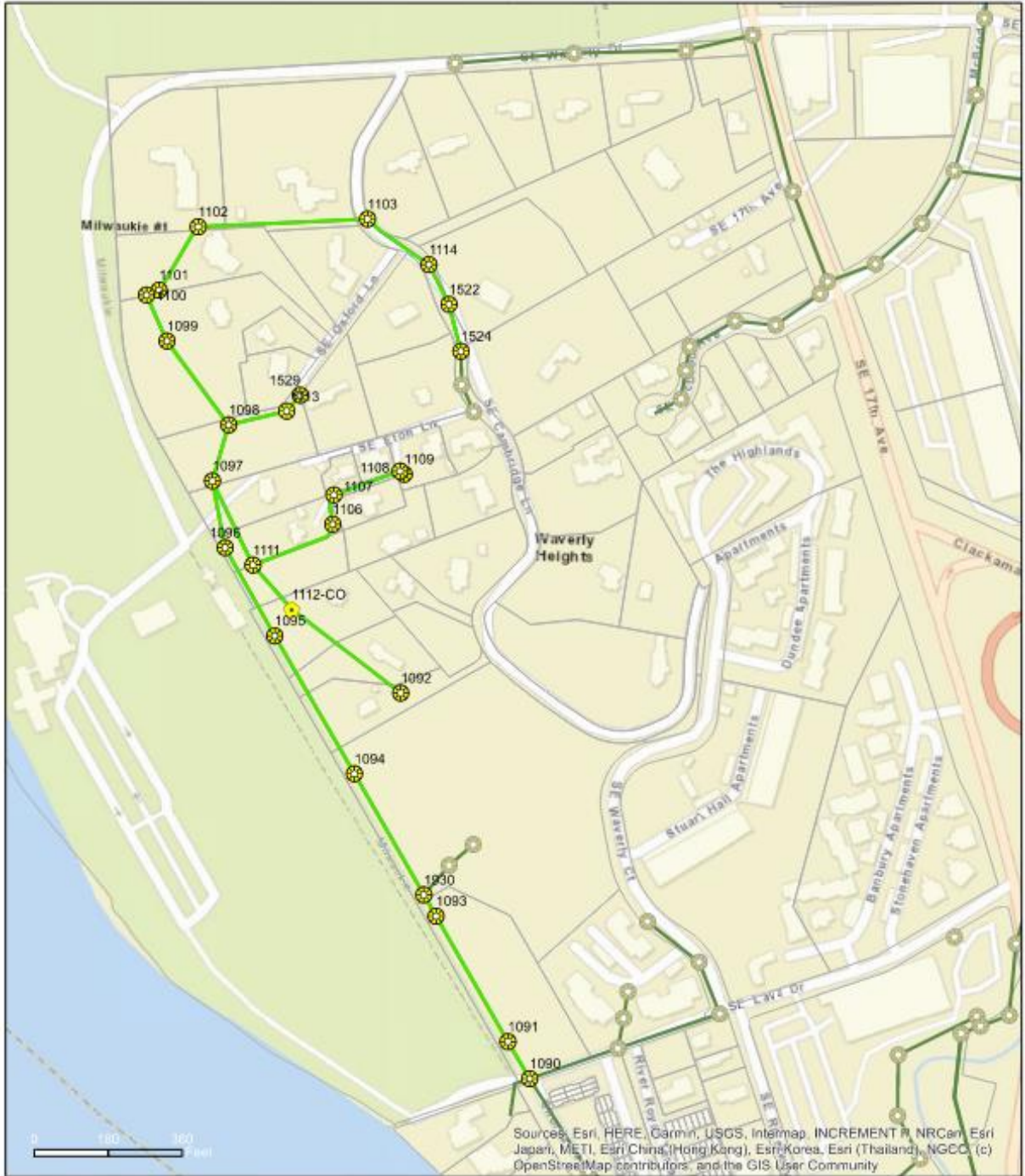


Exhibit A: Existing System

- Project Sewer Mains
- Out of Scope Mains
- Project Manholes
- Out of Scope Manholes
- Project Cleanouts



Data Sources: City of Milwaukee GIS, Metro Data Resource Center

Member Community: City of Gladstone

Project Name: Sanitary Sewer I&I reduction project

Date: June 13, 2023

Basin: West Basin 10100 and East Basin 20400

Following the approval of the city's I/I project phase 1 & 2 from the Technical Advisory Team "TAT" the City of Gladstone hired Leeway Engineering to complete the design phase of the City of Gladstone's I/I project phase 1 & 2. With the completion of the design, the city is now at the point of issuing a Request for Proposal (RFP).

This project was identified in the City of Gladstone Sanitary Sewer Masterplan as a high priority for I/I reduction in 2017. Also identified by the Clackamas WES Sanitary Sewer System Masterplan for Water Environmental Services in 2019. The overall goal of this project is to fulfill the MAO with DEQ while working towards the overall goal of achieving 65% reduction of peak wet-weather I&I within the project area, in phases.

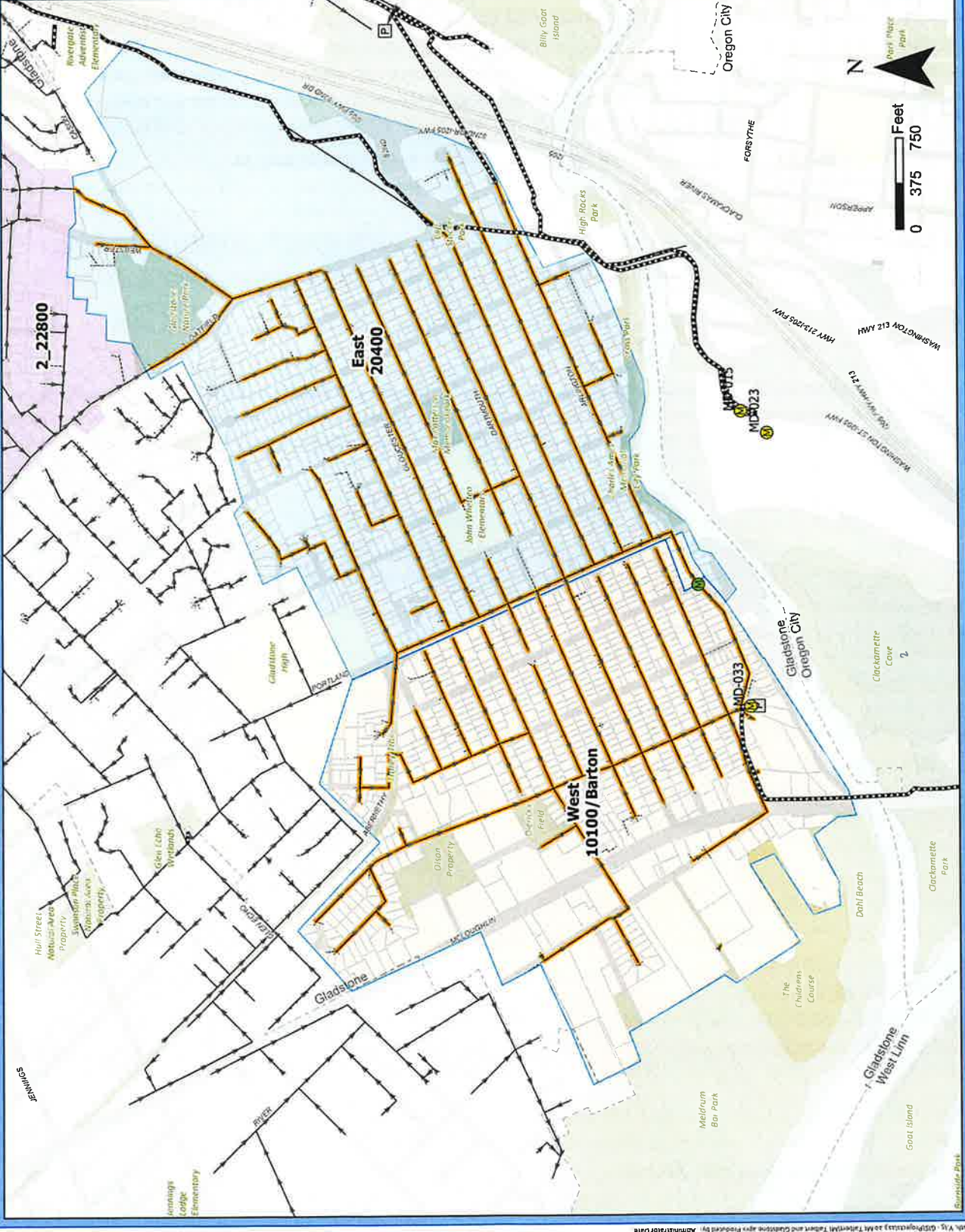
Gladstone's I/I project phase 1 & 2 includes disconnecting identified private and public inflow sources to the sanitary sewer system and connecting them to the storm system. Storm line extensions will allow the city to address additional sources of inflow both public and private which are currently connected to the sanitary sewer system. Without the storm line extensions the city will not be able to eliminate these identified sources of inflow.

Final Plans: June 2023

Bidding & Awarding: June/August 2023

Construction: Begins August 2023

The engineers estimate for this project is \$1,103,736. This does not include any of the previous design work that has already been completed.



This map published for the City of Gladstone by Leeway Engineering Solutions on 02/14/2023. Leeway makes no claims about the map's accuracy, which is based on the source data. Data provided by the City of Oregon City, Clatskanie County and EPA World Maps.

Figure 2-10
Gladstone
Recommended
Investigations