

1. **POC Name:** Al Braithwaite
2. **POC Organization:** City of Oldsmar
3. **POC Title:** Director of Administrative Services
4. **POC Email:** ABraithwaite@myoldsmar.com
5. **POC Phone:** 813-749-1107
6. **Proposed Activity Name:** Gravity Sewer Rehabilitation using Cured-in-place Pipe
7. **Restoration Council Goals Addressed:**
 - B. Restore Water Quality – this project will reduce possible/potential fecal contamination of the surrounding water bodies including Mobley Bayou, Moccasin Creek and Old Tampa Bay.
 - D. Enhance Community Resilience – lining the sewer system will reduce Inflow & Infiltration (I&I) which can be detrimental to the wastewater treatment system especially during heavy storms.
8. **RESTORE Act Eligible Activities Addressed:**
 1. Restoration/protection of natural resources, ecosystems, fisheries, marine wildlife habitats, beaches and coastal wetlands – this project will reduce possible/potential fecal contamination of the surrounding water bodies including Mobley Bayou, Moccasin Creek and Old Tampa Bay.
 6. Infrastructure projects benefitting the economy or ecological resources – sanitary sewer is a key component of the City’s infrastructure and services over 15,000 people daily plus a large commercial / industrial base located within the City limits. Additionally, the City has several popular parks and private establishments located along the water that will benefit from protecting water quality in the Bay.
9. **Previous Claim:** None
10. **RESTORE Act Pinellas County priorities addressed:**
 - b. Provide stormwater quality improvements – this project will reduce possible/potential fecal contamination of the surrounding water bodies including Mobley Bayou, Moccasin Creek and Old Tampa Bay.
 - f. Provide flood and storm protection to infrastructure and other publicly owned assets that consider resilience and changing sea levels – I&I increases during heavy storms and when the water table is high. High levels of I&I can overwhelm lift stations and wastewater treatment plants leading to sanitary sewer overflows and fecal in waterbodies.

11. Project Location: Clay gravity sewer lines located in the CRA and shore area of Oldsmar as shown on the attached map – Attachment A (submitted via email).

12. Region or Geographic Area Impacted by Project: The improvements will impact Old Tampa Bay, Mobley Bayou, and Moccasin Creek. These are the waterbodies adjacent to the project location that would be impacted by fecal in the event of a sanitary sewer overflow. See attached map – Attachment B (submitted via email).

13. Project Description: Discuss the essential elements of the project. Include what is proposed, clearly list major project tasks or program milestones, the project duration, and why it should be done. The City of Oldsmar has an older section of town which is located along the shore of Old Tampa Bay (Safety Harbor) and was developed over the past 100 years. Many of the gravity sewer lines in this section are vitrified clay pipe (VCP) with hammer-taps at the individual services connections. Over time the VCP has become cracked and the amount of I&I has increased. During heavy storm events, such as during TS Debbie, the amount of I&I overwhelmed the system and lead to sanitary sewer overflows. The goal is to complete use the Cured-in-place Pipe to line all the VCP pipe and related manholes located in the area shown on the attachments. Major tasks will include the following:

- Inspection of all manholes and related pipe to identify exactly which sections have VCP. Please note there are several small areas that were more recently developed using PVC which do not have I&I issues.
- Complete bid documents that include detailed information on the areas to be addressed by the project.
- Complete the bidding process to select a qualified contractor to complete the work
- Complete construction/rehabilitation project.

14. Project Manager and Key Project Team Members – including credentials and experience doing similar work.

Project Manager –

- Lisa R. Rhea, P.E., Director of Public Works, has over 10 years of experience in the design, permitting, construction and management of public utilities including 4 years in private consulting with Jones Edmunds and Associates and 6 years with the City of Oldsmar.

Key Team Members –

- Johna Jahn, E.I., Utilities Administrator, has over 12 years of experience in the design and permitting of public utilities including 9 years in private consulting with McKim & Creed and 3 years with the City of Oldsmar.
- Tim Jacobson, Senior Engineering Technician, has more than 20 years of experience with underground utility construction including more than 10 gravity sewer lining projects.
- Charles Lee, D&C Supervisor, has supervised the City's collection system for over 5 years and worked with Tim Jacobson on the annual sewer lining projects the past 3 years.

- 15. Environmental and/or Economic Benefits – describe environmental and/or economic benefits of the project .** This project will help protect surrounding water bodies including Old Tampa Bay and Mobley Bayou from possible fecal coliform bacteria contamination associated with human waste in sanitary sewer systems by reducing inflow and infiltration (I&I). High I&I associated with high groundwater and rainwater can enter a system overwhelming the lift stations and wastewater treatment plants can cause sanitary sewer overflows. During dry events, the wastewater within the collection system can seep out and cause contamination. By improving the sanitary sewer collection system within the area near these waterbodies, the City will be helping protect the water quality.
- 16. Technical Feasibility – describe technologies and relevant past experience or proven success with similar projects.** Cured-in-place pipe (CIPP) is a trenchless rehabilitation method used for buried piping including sanitary sewer and stormwater. The technology is well established and used nationwide since the mid-1990s. The City has successfully complete several CIPP projects, most recently in the project area in question using Layne Inliner from Clearwater.
- 17. Public Acceptance – Describe any known or potential public approval or opposition to the project.** There is no known or potential public opposition to the project. The City has completed this type of work in the past and held public meeting. The residents are supportive of the work and appear to understand.
- 18. Project Activity Budget Justification:** , The downtown area shown in Attachment A (submitted via email) has approximately 60,000 linear feet of gravity sewer remaining (20,000 LF has been completed under the annual sewer lining CIP) that needs the be inspected and lined. At the current price for CIPP of \$10 per linear foot, the total anticipated budget will be \$600,000.
- 19. Describe how the project will utilize a collaborative approach that incorporates partnerships, if applicable:** Not applicable
- 20. Describe how the project will support, further, or implement one or more Pinellas County Comprehensive Plan Element goal(s) as identified in the overarching project goals, if applicable. Clearly list each Comprehensive Plan Element goal addressed.** This project supports the following items from the Pinellas County Comprehensive Plan:
- Natural Resource Conservation & Management Element, specifically groundwater quality protection.
 - Coastal Management Element, specifically Coastal Public Facilities and Infrastructure.
- 21. Describe the benefits the project will provide, for how long and why:** The CIPP project has a life expectancy of 50 years. Please see item 15 for information on the benefits of the project.
- 22. Possible material risks to implement and maintain the proposed activity:** No possible known risks

23. Best Available Science: Cure-in-place pipe is the most effective means for rehabilitating existing gravity pipes and minimizes the potential impacts of construction activities on the surrounding areas.

24. Matching/Other funding. The City currently allocated \$100,000 per year towards completing sewer lining projects.

25. Will the Project be completed within 5 years from date funding is confirmed? Yes

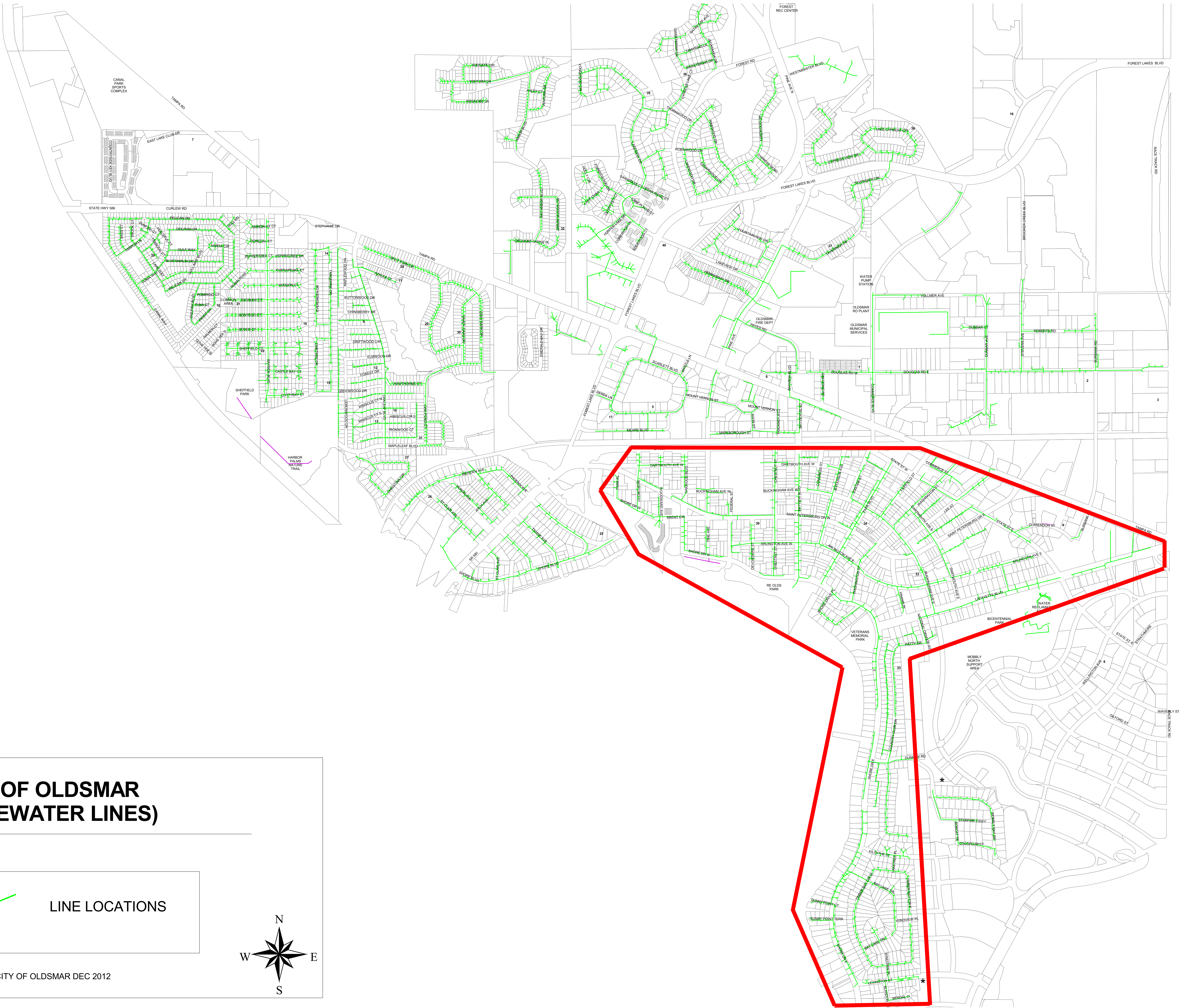
26. Identify each project milestones and proposed duration (no. of months) to complete each step and the total number of months or years to complete the project. The following is based on funding approval. Total duration of 14 months.

- City staff completing inspection to clearly identify the locations with older clay piping – 60 days
- City staff assembling bid documents – 30 days
- City Council authorizes bidding – 1 day
- Bid is advertised – 45 days
- Bids are received and reviewed – 14 days
- City Council awards bid – 1 day
- Contract documents are completed, pre-construction meeting is held, public meeting is held, start date is established – 60 days
- Construction duration – 180 days

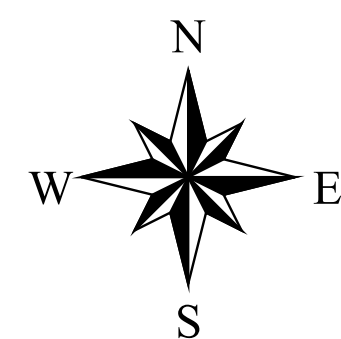
27. How long before the project can start after funds are available (months)? Once funding is approved the work outlined in item 26 can begin immediately.

28. Describe project design work, permit requirements and hurdles (federal, state, or local) and/or permitting that is in progress. There is no design work or permit required to complete this work. The City does not anticipate any hurdles.

29. Describe any issues or reasons that may delay project start or completion. The only foreseeable delay would be the contractor's availability based on their workload.



CITY OF OLDSMAR (WASTEWATER LINES)



CITY OF OLDSMAR DEC 2012





Google earth

