



February 18, 2021

SEWER CIPP LINING CONTRACT – SPRING 2021

PROJECT NO. 2021-009

BID NO. 2474

ADDENDUM 1

To all bidders:

1. Does the traffic control plan need to be submitted with the bid?

No, it will be submitted post-bid.

2. The current contract time is 120 days. Will the owner consider extending the time?

No

3. When is the anticipated Notice to Proceed?

Around June 1, 2021.

4. Who is responsible to pay for water? Will the city provide a meter?

The City will pay for the water. We will also provide a meter and backflow (for City tracking purposes).

5. How many samples for CIPP testing is required? Will the owner or contractor be responsible for payment?

NASCO provides guidelines of how many tests should be performed. The cost of testing should be included in the per foot price of lining.

6. What type of resin should the contractor use for CIPP of main sewer lines? NASCO does not specify and states the resin should be defined in the contract documents.

Resin - The resin system shall be a corrosion resistant polyester, vinyl ester, or epoxy and catalyst system that when properly cured within the tube composite meets the requirements of ASTM F1216 and ASTM F1743, the physical properties herein, and those which are to be utilized in the Design of the CIPP for this project. The resin shall produce CIPP which will comply with the structural and chemical resistance requirements of this specification.

7. Can the city provide the design parameters or minimum thickness desired for the 6", 8" and 24" sewer lines to be rehabbed by CIPP?

Contractor is to provide calculations to prove that the liner thickness will meet the following:

A. The newly installed liner shall be designed for a minimum fifty-year service life under continuous loading conditions.

B. Design of the liner shall be based on the condition of the existing pipe, which shall be classified as fully deteriorated – the pipe is structurally unsound, suffering from severe cracks, missing sections or other defects. The design shall assume no bonding to the original pipe wall. The liner shall be designed to withstand all imposed loads.

C. The liner shall be designed by a professional engineer registered in North Carolina and shall have sufficient wall thickness to withstand the anticipated external pressures and loads which, will be imposed after installation. The design of the liner shall include considerations for ring bending, deflection, combined loading, buckling, and ovality.

D. Calculations which determine wall thickness requirements of the liner shall be submitted to the Engineer for approval prior to installation. Designs shall be based on the use of standard flexible pipe equations, as detailed in ASTM F-1216 and shall account for the effects of ovality.

E. A safety factor of at least two (2) shall be utilized.

F. The tube manufacturer must have performed long-term testing for flexural creep of the CIPP pipe material installed by his Contractor. Such testing results are to be used to determine the long-term, time dependent flexural modulus to be utilized in the product design. This is a performance test of the materials (tube and resin) and general workmanship of the installation and curing. A percentage of the instantaneous flexural modulus value (as measured by ASTM D- 790 testing) will be used in design calculations for external buckling. The percentage, or the long-term creep retention value utilized, will be verified by this testing. Values in excess of 50% will not be applied unless substantiated by qualified third party test data. The materials utilized for the contracted project shall be of a quality equal to or better than the materials used in the long-term test with respect to the initial flexural modulus used in design.

G. The short-term modulus of elasticity will be reduced by 50 percent in the calculations. If Contractor submits third party certified test results proving a lesser reduction in the long-term modulus after a 10,000-hour test, Engineer will take this into consideration.

H. The Enhancement Factor 'K' to be used in 'Partially Deteriorated' Design conditions shall be assigned a value of 7. Application of Enhancement (K) Factors in excess of 7 shall be substantiated through independent test data.

8. Are there any videos of the lines to review?

We have videos of the lines that you can reviewed after award of the project.

9. Can the contractor use steam to cure all lines?

Yes

10. Are there any forced mains that connect to the lines to be rehabbed by CIPP?

NO.

11. Will the owner oversee any easements?

All easements have been acquired.

12. Will the contractor be required to secure any permits?

The permit for drawing water from hydrants, it is issue by the City.

13. Will the owner allow trucks to use the concrete paths at Les Miles Park?

No driving on the concrete walks will be allowed. Contractor can place steel plates or wooden planks to prevent damage to the walks.

14. Can the owner clarify that all manholes are accessible?

Yes, they are all accessible

15. Can the owner provide the pipe material in the 2021 lining list?

All the lines are clay with the exception of the one listed as Ductile Iron in the comment section.

16 Can the bid date of 2/25/2020 be extended?

No, the City has a deadline to start this project by June 2021.

17 Do all of the documents need to be submitted as the bid or only the Debarred Certification form and the Bid form?

Bidders need to submit Exhibit A- Bid Form in its entirety with their bid.

18 In the online specs it has a requirement for OCP liability in which there is an additional cost at a minimum of \$2,500. This requirement is not mentioned in the insurance requirements that are in the bidding docs. Please advise.

Do not include OCP Liability Insurance in your bid.

Please make a note of this Addendum 1, and acknowledge received on the bid form.

End of Addendum 1