

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

1. ISSUING OFFICE Arcadis, US Inc.	2. PROJECT NO. S340656-13	3. CONTRACT NO. A	4. MODIFICATION NO. 001
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5. TO (CONTRACTOR) National Water Main Cleaning	6. PROJECT LOCATION AND DESCRIPTION Princeton, NJ Mini-System 36
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7. A proposal is required for making the hereinafter described change in accordance with specification and drawing revisions cited herein or listed in attachment hereto. Submit your proposal in space indicated on page 2, attach detailed breakdown of prime and sub-contract costs (See the clause of this contract entitled, "Changes". DO NOT start work under this proposed change until you receive a copy signed by the Contracting Officer or a directive to proceed).

 Date James Shelton _____
Type Name and Title Signature

8. DESCRIPTION OF CHANGE: Pursuant to the clause of this contract covering changes, the contractor shall furnish all labor and material, and all work necessary to accomplish the following described work:

A single 118 LF segment of 12-Inch asbestos cement Sanitary Sewer located in Princeton, NJ from manhole 402B to 28B is badly fractured and cannot be repaired using the grouting techniques included in the base contract. The most cost effective rehabilitation solution for this pipe is to install a Cured in Place Pipe Liner CIPPL inside the existing pipe. CIPPL is required to restore structural integrity and watertightness. The Contractor will clean, CCTV, install a steam-cured polyester/felt liner, and perform post-installation inspection to verify proper rehabilitation. This work will require a Lining Boiler Truck, Reefer Truck, TV Rig, Jetter, and five-person crew. Prior to mobilization, National Water Main (NWM) team will dispatch a Clean and CCTV crew to conduct a video inspection of the sanitary sewer and gather manhole to manhole measurements. The liners will be made up of a two-part polyester resin and a needle punch-felt material. The resin will be cured using steam and then cooled down to ensure proper curing. At the end of the curing process both the upstream and downstream ends are cut off to allow flow back to the pipe. Liner ends will be fitted with watertight end seals. All repairs will be video inspected before and after installation to ensure proper placement and performance.

As a result of the above, the contract price is revised as follows:

ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.
CO-1	Manhole to Manhole lining of 12-Inch AC Sanitary Sewer including 2 Flagmen	\$216.65 per LF	118 LF	\$25,564.70
CO-2	Disposal of Non-Hazardous Debris	\$190.00 per TON	2 TON (Estimated)	\$380.00

TOTAL COST OF THIS MODIFICATION \$25,564.70

The contract time is hereby: *increase* *decrease* or *remains the same* by 0 calendar days as a result of this modification.

The foregoing modification is hereby accepted:

CONTRACTOR	OWNER	ENGINEER
BY: <u>Javiel Rivera Jr.</u>	BY: <u>Deanna Stockton</u>	BY: <u>James Shelton</u>
DATE: _____	DATE: _____	DATE: _____

APPROVAL:

 STATE OF NEW JERSEY _____
DATE

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9. ISSUING OFFICE Arcadis, US Inc.	10. PROJECT NO. S340656-13	11. CONTRACT NO. A	12. MODIFICATION NO. 001
13. CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE (Detailed breakdown, attach additional sheets as necessary)			
<p>(Proposed)</p> <p>See Attachment A: Cleaning, CCTV Inspection, Bypass Pumping, and Lining Quote</p>			
NET INCREASE \$25,564.70	NET DECREASE \$N/A		CALENDER DAYS INCREASE 0 DAYS
DATE:	TYPE NAME AND TITLE: Javiel E Rivera Jr., Sr. Project Manager/Estimator National Water Main Cleaning Co,		SIGNATURE:

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14. ISSUING OFFICE & PROJECT NO. Arcadis, US Inc. S340656-13	15. CONTRACT NO. A	16. MODIFICATION NO. 001
17. ORIGINAL CONTRACT BID PRICE \$ 1,982,858.00 TOTAL OF PREVIOUS CHANGE ORDERS \$ N/A TOTAL CONTRACT COST INCLUDING CHANGE ORDERS ... \$ 2,008,422.70		
18. NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS: Original plans and specifications were drafted for video inspection and possible grouting rehabilitation. Due to unforeseen damages on pipe, CIPPL is recommended, prompting the need for a change order		
19. OTHER IMPACTS RESULTANT OF THIS CHANGE: N/A		
20. RESUME OF NEGOTIATIONS OR RECOMMENDATIONS (Loanee's Representative) : Arcadis/Princeton solicited pricing for this change order from National Water Main, the Prime Contractor for this contract. NWM does cured in place lining work regularly throughout NJ. The price they have offered is consistent with prices for a single segment mobilization. We reviewed the proposal from NWM with them in detail and are satisfied with pricing.		
DATE:	TYPE NAME AND TITLE OF LOANEE'S REPRESENTATIVE: Deanna Stockon, <i>Municipal Engineer /Deputy Administrator</i> Municipality of Princeton	SIGNATURE: