

Mont-Saint-Hilaire, December 26, 2025

Kurtis Muth
Public Works, City of Aurora

Project reference: R-

Project: Emergency Lining 36" Water CIPP –City of Aurora

Vortex Infrastructure services Inc. and/or a sister company are pleased to submit the following proposal for the above-mentioned project.

1. References

- ✓ **Rehabilitation technology:** Structural CIPP lining (UnitedBlue by United Felts)
- ✓ **Length:** +/- 325 l.f.
- ✓ **Diameter:** 36 inches
- ✓ **Number of shots:** 1
- ✓ **Reference documents:** Call with Kurtis on December 23, 2025
- ✓ **Addendum:** 0

2. Work scheduling

- ✓ **Work Duration:** 8 days – All pits must be completed before mobilization
- ✓ **Minimum Order notice:** 4 weeks
- ✓ **Minimum Mobilization notice:** 4 weeks
- ✓ **Number of mobilizations:** 1
- ✓ **Regular hourly schedule:** 6 work-days per week x 10-12 hrs



3. Prices – CIPP lining and Watermains

Items	Unit	Rate	Quantity	Total
Mobilization	LS	\$ 122,400.00	1	\$ 122,400.00
Pipe Cleaning (+/- 325lf)	LS	\$ 43,875.00	1	\$ 43,875.00
Pre Lining CCTV	LS	\$ 3,400.00	1	\$ 3,400.00
CIPP Watermain lining 36" (+/- 325 lf)	LS	\$ 300,625.00	1	\$ 300,625.00
Post Lining CCTV	LS	\$ 3,400.00	1	\$ 3,400.00
Pressure Testing	LS	\$ 23,000.00	1	\$ 23,000.00
			Total	\$ 496,700.00

Contingency Point repair 36"	\$ 5,500.00
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4. Scope of work

The above prices are for "Lining" work for a "CIPP structural lining". Vortex Infrastructure services will supply supervision, labor, equipment, and material, except as excluded, to perform the following tasks.

✓ Liner's installation method:

Water column
Hot water curing
☒

Air pressure
Steam curing
☐

Task	Included	Excluded
Submittals		
Design and design report as per ASTM-1216-09	X	
Proposed product data	X	
Potable water certification NSF-61	X	
Proposed method of construction	X	
Inspection DVDs of site		X
Lining report, Inspection Videos	X	
GPS surveys of existing watermains in excavations necessary to GPS mapping of pipe and as-built drawings		X
GPS mapping of pipe and submittal of data to be treated by surveyor in a specific format		X
Internal laser measurement		X
Survey coordinates		X
Temporary water bypass as it may be requiring		
Installation of plugs for water stoppage		X
Pumps and pumping, water disposal		X
Pipe dewatering		X
Pits dewatering		X
Access and site organisation		

Site permit, parking permit, fire hydrants permit		X
Bonds		X
Resident's notifications		X
Traffic management, Road signs, Flaggers, Pay Duty Officers, Railroad flaggers		X
Site safety plan		X
Free use at all times of a 2 inches water source for equipment connections at no greater than 20 feet distance from each lining pits. Otherwise, a water tanker is to be provided.		X
Settling tanks, Disposal of cleaning residues if dumping in sewers not allowed		X
Dewatering		X
All on-site requirements about COVID-19 situation		X
Access		
Any civil work (excavating), water control etc.		X
Cutting of the water, shoring systems, engineered drawings for shoring system		X
Shoring, jerseys, safety fences, steel plates, ramps etc.		X
Pipe Mechanical work		X
Tie-ins, connections		X
Road's cleaning		X
Site restoration		X
Clean and CIPP structural lining		
Vortex Infrastructure services site mobilization and demobilization	1 x	
Cleaning and swabbing pipes (with high pressure jetting machine)	X	
CCTV inspection before lining	X	
CIPP lining installation and curing	X	
Lining ends sealing	X	
Pressure testing of CIPP lined pipe as per ASTM F1216-16 Standards (@125psi max)	X	
Robotic plugging & reinstatement of services <2 inches	X	
CCTV inspection after lining	X	
Disinfection of water main / Chlorination		X
Dechlorinate water prior to discharge during any flushing		X

Note: It is the General Contractor's responsibility to estimate and to provide the "non include items" as they may be required by the Main Contract and to include them in the prices of the Tender schedule.

5. Documents attached to this proposal

Submittals attached	Yes	No
Commercial conditions	X	
Technical considerations	X	
Access pits lay-out and pads layout	X	
Access pits dimensions	X	
Structural lining history		X
Material Data Sheet		X
NSF 61 Potable water certification		X
Design as per ASTM F1216		X

Vortex Infrastructure services projects history		X
CIPP H2O brochure		X
Potable water certificates		X
Quality control procedures		X
Work History and list of equipment		X

6. Specific technical conditions

- ✓ Water cost for liner curing, cleaning, testing or any other purposes, if necessary, are at the general contractor's expense – water is to be available at 20 feet of distance (2" outlet) from every access pit at a minimum flow of 50 GPM;
- ✓ Access pits excavated and shored by the GC, all lunch pits must be 10 feet wide x 14 feet long and 12" below pipe invert. Receiving pits shall be 10x10
- ✓ GC must provide sufficient access for the lining equipment at each pit location. Minimum 2 lanes of traffic wide.
- ✓ NorCAT training or any other safety training that is site or City specific is not included;
- ✓ Any union fee or local worker ratio are not included;
- ✓ Any dewatering is at general contractor expenses;
- ✓ Inside diameter of existing pipe need to be measured or confirmed by customer for a minimum of 3 weeks before our crews mobilization;
- ✓ The unit prices of the present proposal are valid if the entirety of the lining of the present tender are sub-contracted to Vortex Infrastructure services. As such, no other company, unless approved by Vortex Infrastructure services Inc and/or a sister company, including Vortex. may line portions of the present tender. This does not apply to portions of the contract that may be removed from the contract by the owner.
- ✓ Treating or filtering of water pumped from excavation to either sanitary or storm sewers following high pressure cleaning of pipe or pressure testing is excluded. If settling tanks are needed, they will be at general contractor expenses;
- ✓ Disinfection of water main / Chlorination are excluded.
- ✓ A good condition access road to all working pits need to be provided by general contractor;
- ✓ Bends greater than 45-degrees must be excavated at general contractor expenses;
- ✓ Minimum 25ft between bends is required;
- ✓ If there is lateral service trap between two 45-degrees bends, at least 1 bend need to be removed by general contractor;
- ✓ If any active infiltration is encountered in the existing watermain during the CIPP process, costs for any necessary additional excavations, internal repair sleeves, dewatering pits, etc... will be at general contractor expenses;
- ✓ Downtime for issues beyond Vortex's control will be billed hourly at the rate of \$1,750 per hour.

7. Equipment provided by general contractor to Vortex Infrastructure services for the entire time or our works

If you accept this proposal, please initialize each page of this proposal and sign the section below and return it to us by e-mail.

We thank you for your interest in Vortex Infrastructure services's services and look forward to working with you on this project. We remain at your disposal if you have questions on the above or if further information is required.

Sincerely,

SECTION RESERVED FOR CUSTOMER

Emergency Lining 36" Water CIPP –City of Aurora

December 26, 2025

Accepted by :

Date

Purchase order

COMMERCIAL CONDITIONS

1. Prices are in US dollars without local taxes that may apply.
2. This offer is valid for a period equivalent to the one required by the Main Contract limited to a maximum of 30 days.
3. Payment conditions:
 - a. As per the Main Contract;
 - b. Payment to Vortex Infrastructure services will be issued after a maximum of 5 days following the corresponding payment has been received by General Contractor;
 - c. If payment from the Owner is delayed due to General Contractor faulty performance, Vortex

Infrastructure services will be paid as it should have been with no such delay. Interest rate at 2%/month or 26.82%/year.

4. Bonding is not included.
5. Insurance certificate included.
6. Warranty:
 - a. As per the Main contract;
 - b. If there are delays on the General Contractor's account, the warranty period for Vortex Infrastructure services's work will start at the completion date of its work;
 - c. The Warranty is limited to the making good the faulty work performed by Vortex Infrastructure services's;
 - d. The Warranty excludes the ancillary work that is required to prepare the site in order for the corrective work to be performed;
 - e. The Warranty also excludes direct, indirect, consequential damages, penalties, liquidated damages or other damages alike.
7. The responsibility of Vortex Infrastructure services for total consolidated losses or damages of any nature whatsoever, including claims from Third Parties, will not be superior to the price of Vortex Infrastructure services subcontract. If claims of any nature whatsoever, including claims from Third Parties, would be over the subcontract price, then the General Contractor would take over the responsibility of exceeding amounts.
8. No provision has been made for special locals, unions and/or safety rules or Owner training.
9. All permits except labor related are excluded.
10. Vortex Infrastructure services will support apprenticeship, minorities and small business programs as it may be possible.
11. Vortex Infrastructure services's workers compensation through general contractor, if needed.

**TECHNICAL CONSIDERATIONS – WATER
REVERSION & HOT WATER CURING**

1. Access pits for the liner insertion shall comply with Vortex Infrastructure services standards., and shored before Vortex Infrastructure services mobilization.
2. Rigs shall have access to the pits as per the attached drawings.
3. Pipes shall be cut before Vortex Infrastructure services mobilization.
4. The access pits shall be dewatered by others before and during Vortex Infrastructure services work.

5. Access shafts for replacement of valves. fire hydrants and other accessories can be used as access pits for lining when possible.
6. The Tees for service taps, fire hydrants etc over 2 inches and valves shall be excavated before Vortex Infrastructure services mobilization.
7. Bends:
 - a. The minimum distance between two consecutive 22 deg bends shall be 4 x diam. and between two consecutive 45 deg shall be 8 x dia.
 - b. Bends with other lay-outs shall be normally excavated except if specifically approved by Vortex Infrastructure services.
 - c. The bends over 45 deg shall be normally excavated except if approved by Vortex Infrastructure services.
 - d. If more than two bends and other bends are considered, it needs approval from Vortex Infrastructure services.
 - e. Wrinkles may be present on the inside radius of the pipe where the liner crosses bends
8. If a valve in a chamber is used to decommission the water main and the lining section starts or finishes at the chamber, then an access pit shall be excavated in front of the chamber except if approved by Vortex Infrastructure services.
9. Repairs, water infiltration, water back flow from lateral connections or services, lead joints or protuberances are excluded and shall be corrected by others prior the lining.
10. Some operations like lining cooling require extended hours.
11. Disposal of cleaning residues and cleaning water not included except to pump in storm sewer within 100 feet of job site.
12. Water source to be available on site (2-1/2" fire hydrant outlet less than 20 feet away. Or multiple water tankers). Water cost is excluded.
13. Supply of temporary caps for closing the pipes at the end of the Vortex Infrastructure services work is excluded.
14. Vortex Infrastructure services will not be responsible for water infiltration or damages after the end of Vortex Infrastructure services work.