



Roll Call Number

Agenda Item Number

22A

DATE March 7, 2022

ACCEPTING COMPLETED CONSTRUCTION AND APPROVING FINAL PAYMENT FOR 2019 SEWER LINING PROGRAM, INSITUFORM TECHNOLOGIES USA, LLC

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the attached report of the Des Moines City Engineer, showing the cost of the construction of the 2019 Sewer Lining Program, 072019009, in accordance with the contract approved between Insituform Technologies USA, LLC, Charles R. Gordon, President, 17988 Edison Avenue, Chesterfield, MO 63005, under Roll Call No. 19-1673, of October 14, 2019, and the City of Des Moines, and recommending the acceptance thereof, be and the same is hereby approved, and accepted.

BE IT FURTHER RESOLVED: That \$3,571,622.56 is the total cost, of which \$3,464,473.88 has been paid the Contractor, and \$0.00 is now due and is hereby approved as final partial payment for the above project, the remaining balance of \$107,148.68 is to be paid at the end of thirty days, with funds retained for unresolved claims on file in accordance with Iowa Code Chapter 573.

BE IT FURTHER RESOLVED: That the Director of Finance be and is hereby authorized to release said retainage if suit is not filed as above provided.

Moved by _____ to adopt. Second by _____

FORM APPROVED:

s/Kathleen Vanderpool

Kathleen Vanderpool
Deputy City Attorney

FUNDS AVAILABLE

Nickolas J. Schaul
Director of Finance

Funding Source: 2021-2022 CIP, Page 88, Sanitary Sewer Lining and Repairs, SS049, Sanitary Sewer Funds, Being: \$3,430,322.56 Sanitary Sewer Utility Funds and \$141,300 G.O. Bonds transferred from PK045

SL

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
GATTO				
MANDELBAUM				
SHEUMAKER				
VOSS				
WESTERGAARD				
TOTAL				

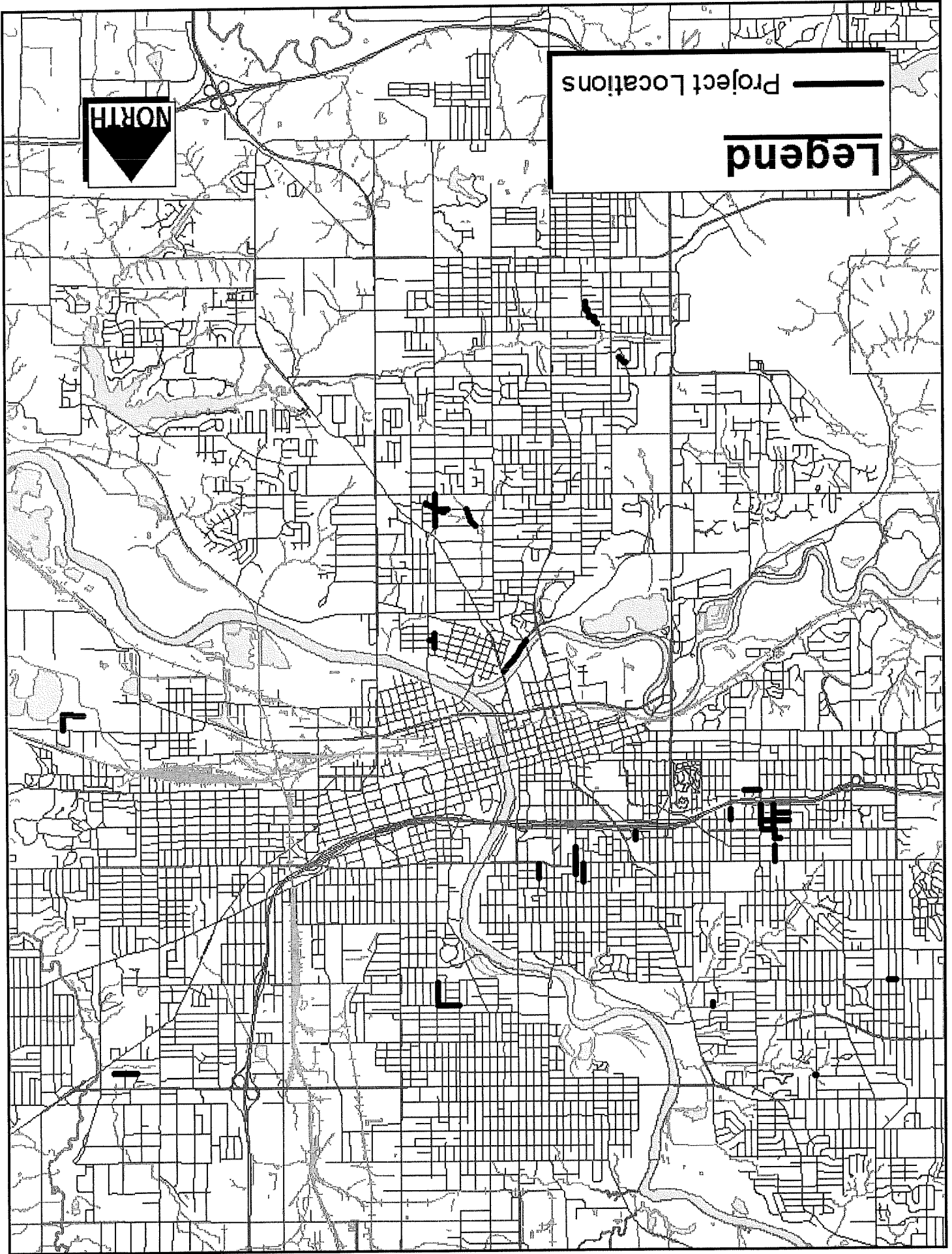
MOTION CARRIED APPROVED

I, P. Kay Cmelik, City Clerk of said City Council, hereby certify that at a meeting of the City Council, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

Mayor

City Clerk



Legend
— Project Locations

NORTH



PROJECT SUMMARY

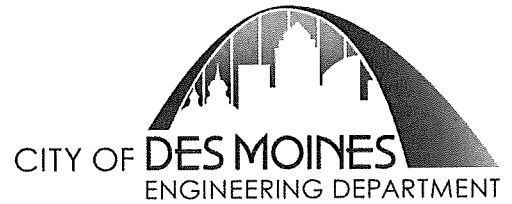
2019 Sewer Lining Program

Activity ID 072019009

On October 14, 2019, under Roll Call No. 19-1673, the Council awarded the contract for the above improvements to Insituform Technologies USA, LLC, in the amount of \$3,398,977.10. Tabulated below is a history of project change orders.

<u>Change Order No.</u>	<u>Initiated By</u>	<u>Description</u>	<u>Amount</u>
1	Engineering	5/13/2020 Add two sewer spot repairs on Rutland Ave.	\$48,600.00
2	City	6/5/2020 Replace sanitary sewer on Center Street with new pipe instead of lining.	\$47,850.00
3	City	8/11/2020 Add items for additional heavy cleaning.	\$12,991.22
4	Engineering	10/13/2020 Increasing the quantity of Bid Item #13 and adjust the lining size of two sewer lines from 10" to 8".	\$48,144.00
5	Engineering	1/7/2021 Add items for manhole enlargement and spot repair.	\$49,600.00
6	Engineering	2/16/2021 Increase the quantity for Spot Repairs by Pipe Replacement, 24" to 48" Diameter, 12' to 20' Depth and Manhole, 48" Diameter Structure for repair work near the Salisbury House.	\$49,250.00
7	Engineering	4/19/2021 Add additional CIPP pipes section and increase some existing CIPP pipe lining diameters for additional locations determined by Public Works.	\$270,705.50
8	Engineering	7/19/2021 Increase quantities for spot report and manhole adjustment.	\$49,700.00
9	Engineering	2/15/2022 Adjust contract quantities to match as-built quantities.	\$(404,195.26)
Original Contract Amount			\$3,398,977.10
Total Change Orders			\$172,645.46
Percent of Change Orders to Original Contract			5.08%
Total Contract Amount			\$3,571,622.56

March 7, 2022



CERTIFICATION OF COMPLETION

AGENDA HEADING:

Accepting completed construction and approving final payment for the 2019 Sewer Lining Program, Insituform Technologies USA, LLC.

SYNOPSIS:

Approve the Engineer's Certification of Completion, accept construction of said improvement, and authorize final payment to the contractor.

FISCAL IMPACT:

Amount: \$3,571,622.56 As-Built Contract Cost

Funding Source: 2021-2022 CIP, Page 88, Sanitary Sewer Lining and Repairs, SS049, Sanitary Sewer Funds, Being: \$3,430,322.56 Sanitary Sewer Utility Funds and \$141,300 G.O. Bonds transferred from PK045

CERTIFICATION OF COMPLETION:

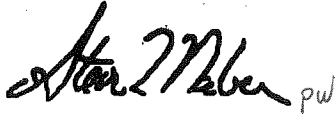
On October 14, 2019, under Roll Call No. 19-1673, the City Council awarded a contract to Insituform Technologies USA, LLC, Charles R. Gordon, President, 17988 Edison Avenue, Chesterfield, MO 63005 for the construction of the following improvement:

2019 Sewer Lining Program, 072019009

The improvement includes the rehabilitation of approximately 22,000 lineal feet of 10-inch through 36-inch diameter sanitary sewers with cured-in-place pipe (CIPP) lining, by-pass pumping, sewer cleaning and televising, sewer spot repairs, manhole rehabilitation, and other related items; all in accordance with the contract documents, including Plan File Numbers 612-001/039, at the following locations: Center Street, 28th Street, E. 14th Street, 31st Street (north of I-235), School Street, Iola Avenue, 33rd Street, Rutland Avenue, Kingman Boulevard, Hickman Road, 38th Street, Mann Avenue, 16th Street, 10th Street, 9th Street, 4th Street, Arthur Avenue, E. 9th Street, E. Ovid Avenue, Scott Avenue at Leetown Creekway, S.E. 5th Street, along the DM-III Levee (southside of Raccoon River between S.W. 7th Street and S.W. 5th Street), E. Broad Street, E. Pleasant View Drive, S.E. 5th Street, S.W. 16th Street, and Porter Avenue, all in Des Moines, Iowa

I hereby certify that the construction of said 2019 Sewer Lining Program, Activity ID 072019009, has been completed in substantial compliance with the terms of said contract, and I hereby recommend that the work be accepted. The work commenced on November 19, 2019, and was completed on February 15, 2022.

I further certify that \$3,571,622.56 is the total cost of said improvement, of which \$3,464,473.88 has been paid the Contractor and \$0.00 is now due and is hereby approved as final partial payment for the above project, the remaining balance of \$107,148.68 is to be paid at the end of thirty days, with funds retained for unresolved claims on file in accordance with Iowa Code Chapter 573. The amount of completed work is shown on the attached Estimate of Construction Completed.

A handwritten signature in black ink that reads "Steven L. Naber" followed by a small "pw" to the right.

Steven L. Naber, P.E.
Des Moines City Engineer

**ENGINEERING DEPARTMENT
CITY OF DES MOINES, IOWA**



**ESTIMATE OF CONSTRUCTION COMPLETED
FOR WORK DONE FROM 02/11/22 to 02/16/22
FINAL PAYMENT (Partial Payment NO. 14)**

**PROJECT: 2019 Sewer Lining Program
CONTRACTOR: Insituform Technologies USA, LLC**

**Activity ID: 07-2019-009
Date: 02/16/22**

LINE NO.	DESCRIPTION	UNIT	UNITS			UNIT PRICE	TOTAL AMOUNT
			ESTIMATED	AUTHORIZED	CONSTRUCTED TO DATE		
1	Replacement of Unsuitable Backfill Material	TON	100.000	6.000	6.000	\$55.00	\$330.00
2	Pipe Lining, CIPP, 10"	LF	10,461.000	9,733.000	9,733.000	\$25.00	\$243,325.00
3	Pipe Lining, CIPP, 12"	LF	5,367.000	4,998.000	4,998.000	\$30.00	\$149,940.00
4	Pipe Lining, CIPP, 15"	LF	948.000	1,151.000	1,151.000	\$42.00	\$48,342.00
5	Pipe Lining, CIPP, 18"	LF	1,129.000	825.000	825.000	\$65.00	\$53,625.00
6	Pipe Lining, CIPP, 24"	LF	1,007.000	1,003.000	1,003.000	\$85.00	\$85,255.00
7	Pipe Lining, CIPP, 36"	LF	3,295.000	3,310.000	3,310.000	\$175.00	\$579,250.00
8	Pipe Lining, CIPP, Lateral Connection	EACH	40.000	0.000	0.000	\$2,200.00	\$0.00
9	Sewer Service Reconnection	EACH	300.000	369.000	369.000	\$100.00	\$36,900.00
10	Bypass Pumping	LS	1.000	1.000	1.000	\$110,000.00	\$110,000.00
11	E Jackson Ave Spot Repair	LS	1.000	1.000	1.000	\$53,000.00	\$53,000.00
12	E 14th Street Spot Repair	LS	1.000	1.000	1.000	\$53,000.00	\$53,000.00
13	Spot Repairs by Pipe Replacement, Less Than 24" Diameter, Less Than 12' Depth	EACH	4.000	10.000	10.000	\$25,500.00	\$255,000.00
14	Spot Repairs by Pipe Replacement, 24" to 48" Diameter, Less Than 12' Depth	EACH	2.000	4.000	4.000	\$10,200.00	\$40,800.00
15	Spot Repairs by Pipe Replacement, Greater Than 48" Diameter, Less Than 12' Dep	EACH	1.000	0.000	0.000	\$10,000.00	\$0.00
16	Spot Repairs by Pipe Replacement, Less Than 24" Diameter, 12' to 20' Depth	EACH	4.000	8.000	8.000	\$30,750.00	\$246,000.00
17	Spot Repairs by Pipe Replacement, 24" to 48" Diameter, 12' to 20' Depth	EACH	2.000	2.000	2.000	\$34,850.00	\$69,700.00
18	Spot Repairs by Pipe Replacement, Greater Than 48" Diameter, 12' to 20' Depth	EACH	1.000	4.000	4.000	\$20,000.00	\$80,000.00
19	Spot Repairs by Pipe Replacement, Less Than 24" Diameter, Greater Than 20' Dep	EACH	2.000	2.000	2.000	\$35,800.00	\$71,600.00
20	Spot Repairs by Pipe Replacement, 24" to 48" Diameter, Greater Than 20' Depth	EACH	1.000	1.000	1.000	\$41,000.00	\$41,000.00
21	Spot Repairs by Pipe Replacement, Greater Than 48" Diameter, Greater Than 20' D	EACH	1.000	1.000	1.000	\$20,000.00	\$20,000.00
22	Dewatering for Spot Repair	EACH	6.000	3.000	3.000	\$2,100.00	\$6,300.00
23	Sewer Service Connection Repair made During Spot Repair	EACH	10.000	7.000	7.000	\$1,050.00	\$7,350.00
24	Sewer Cleaning and Video Inspection, Less Than 30" Diameter	LF	18,912.000	21,679.000	21,679.000	\$4.80	\$104,059.20
25	Sewer Cleaning and Video Inspection, 30" Diameter or Greater	LF	3,295.000	4,775.000	4,775.000	\$9.30	\$44,407.50
26	Manhole Enlargement	EACH	4.000	6.000	6.000	\$27,500.00	\$165,000.00

2024

LINE NO.	DESCRIPTION	UNIT	UNITS			UNIT PRICE	TOTAL AMOUNT
			ESTIMATED	AUTHORIZED	CONSTRUCTED TO DATE		
27	Manhole, 48" Diameter Structure	EACH	2.000	1.000	1.000	\$27,500.00	\$27,500.00
28	Manhole, Type SW-302	EACH	2.000	1.000	1.000	\$32,800.00	\$32,800.00
29	Minor Manhole Adjustment	EACH	30.000	6.000	6.000	\$1,550.00	\$9,300.00
30	Major Manhole Adjustment	EACH	5.000	7.000	7.000	\$4,200.00	\$29,400.00
31	Manhole Lining With Centrifugally Cast Mortar Liner	VF	700.000	575.300	575.300	\$180.00	\$103,554.00
32	Imported Granular Backfill	TON	150.000	749.860	749.860	\$52.50	\$39,367.65
33	Traffic Control for Spot Repair, Residential Street	EACH	6.000	6.000	6.000	\$1,050.00	\$6,300.00
34	Traffic Control for Spot Repair, Non-Residential Street	EACH	6.000	0.000	0.000	\$1,300.00	\$0.00
35	Composite Pavement	SY	1,500.000	368.600	368.600	\$205.00	\$75,563.00
36	PCC Pavement, 6"	SY	400.000	36.000	36.000	\$95.00	\$3,420.00
37	PCC Pavement, 8"	SY	400.000	0.000	0.000	\$115.00	\$0.00
38	Temporary Cap for Composite Pavement Patch	SY	200.000	0.000	0.000	\$79.00	\$0.00
39	PCC Curb & Gutter	LF	100.000	0.000	0.000	\$63.00	\$0.00
40	PCC Sidewalk	SY	300.000	0.000	0.000	\$125.00	\$0.00
41	Pavement Removal	SY	2,000.000	263.300	263.300	\$21.00	\$5,529.30
42	Traffic Control	LS	1.000	1.000	1.000	\$55,500.00	\$55,500.00
43	Flagger, Uniformed Police Officer	DAY	6.000	0.000	0.000	\$550.00	\$0.00
44	Hydraulic Seeding, Seeding, Fertilizing, and Mulching	ACRE	1.000	0.000	0.000	\$9,200.00	\$0.00
45	Sodding	SQ	50.000	0.000	0.000	\$315.00	\$0.00
46	Filter Sock	LF	350.000	0.000	0.000	\$5.00	\$0.00
47	Remove Filter Sock	LF	350.000	0.000	0.000	\$2.50	\$0.00
48	Tree Protection Fence	LF	500.000	0.000	0.000	\$5.00	\$0.00
49	Mobilization	LS	1.000	1.000	1.000	\$206,000.00	\$206,000.00
50	Mobilization for Emergency Spot Repair	EACH	5.000	4.000	4.000	\$1,050.00	\$4,200.00
2.01	Traffic Control (Center Street)	LS		1.000	1.000	\$1,650.00	\$1,650.00
2.02	6" Pavement Removal & Replacement	SY		472.800	472.800	\$88.00	\$41,606.40
2.03	10" PVC SDR-26 Sewer Replacement (18' Deep)	LF		288.000	288.000	\$275.00	\$79,200.00
2.04	Connect Existing House Service (Center Street)	EACH		3.000	3.000	\$1,100.00	\$3,300.00
3.01	Addition Heavy Cleaning	HOUR		140.500	140.500	\$354.29	\$49,777.75
3.02	Addition Heavy Cleaning, Robotic Cutting	HOUR		23.500	23.500	\$386.98	\$9,094.03
4001	Pipe Lining, CIPP, 8"	LF		949.000	949.000	\$24.00	\$22,776.00
4002	9th Street Detour	LS		1.000	1.000	\$3,999.00	\$3,999.00
7001	Pipe lining, CIPP, 27.8' Square Box (SW 30th Street)	LF		100.000	100.000	\$267.00	\$26,700.00
7002	Pipe lining, CIPP, 30" CMP Storm (SW 30th Street)	LF		60.000	60.000	\$267.00	\$16,020.00
7003	E Pleasant View Dr Storm Sewer, CIPP 30"	LF		392.000	392.000	\$193.00	\$75,656.00

LINE NO.	DESCRIPTION	UNIT	UNITS			UNIT PRICE	TOTAL AMOUNT
			ESTIMATED	AUTHORIZED	CONSTRUCTED TO DATE		
7004	Pipe Lining, CIPP, 27" (62nd Street Sanitary Sewer)	LF		529.000	529.000	\$131.00	\$69,299.00
7005	Pipe Lining, CIPP, 42"	LF		0.000	0.000	\$255.00	\$0.00
9001	Upcharge for Tube Taper, CIPP 36" to 30"	LS		1.000	1.000	\$2,242.50	\$2,242.50
9002	Manhole Bench Repair	EACH		1.000	1.000	\$550.00	\$550.00
9003	Manhole Locating	LS		1.000	1.000	\$277.65	\$277.65
9004	Sewer Debris Disposal	LS		1.000	1.000	\$4,712.13	\$4,712.13
9005	Additional Scott Ave Traffic Control	LS		1.000	1.000	\$2,144.45	\$2,144.45
TOTAL CONTRACT AMOUNT PLUS CHANGE ORDERS				\$3,571,622.56			
PARTIAL PAYMENT #1				\$109,181.45			
PARTIAL PAYMENT #2				\$86,039.00			
PARTIAL PAYMENT #3				\$72,313.50			
PARTIAL PAYMENT #4				\$198,579.18			
PARTIAL PAYMENT #5				\$150,652.83			
PARTIAL PAYMENT #6				\$166,960.38			
PARTIAL PAYMENT #7				\$166,155.18			
PARTIAL PAYMENT #8				\$319,464.94			
PARTIAL PAYMENT #9				\$309,042.58			
PARTIAL PAYMENT #10				\$80,346.66			
PARTIAL PAYMENT #11				\$321,803.32			
PARTIAL PAYMENT #12				\$547,141.59			
PARTIAL PAYMENT #13				\$936,793.27			
THIS PARTIAL PAYMENT				\$0.00			
TOTAL PARTIAL PAYMENTS				\$3,464,473.88			
BALANCE				\$107,148.68			

PREPARED BY: Matthew J. Beckler

CHECKED BY: DJK

TOTAL	\$3,571,622.56
RETAINAGE	\$107,148.68
TOTAL LESS RETAINAGE	\$3,464,473.88
LESS PREVIOUS PAYMENT	\$3,464,473.88
AMOUNT DUE	\$0.00

FINAL PAYMENT (Partial Payment NO. 14)