

DATE December 18, 2006

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT  
DOCUMENTS, AND ENGINEER'S ESTIMATE ON  
2006 SANITARY SEWER LINING PROGRAM;  
RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIBLE, RESPONSIVE  
BIDDER AS INSITUFORM TECHNOLOGIES USA, INC., THOMAS S. ROONEY, JR., PRESIDENT & CEO,  
\$3,580,276.00

WHEREAS, on November 6, 2006, under Roll Call No. 06-2159, plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following improvement:

2006 Sanitary Sewer Lining Program, 07-2006-002

The improvement includes renovation of 38,000 lineal feet of 8" through 60" diameter VCP and brick sewers with cured-in-place pipe (CIPP), by-pass pumping, manhole rehabilitation, and other related items; all in accordance with the contract documents, including Plan File Nos. 465-047/057 at:

1. The Urbandale Avenue area, near 30th Street
2. West of 48th Street between Harwood Drive and Ingersoll Avenue, East of 48th Street between Harwood Drive and Ingersoll Avenue, West of 46th Street between Harwood Drive and Ingersoll Avenue, East of 46th Street between Harwood Drive and Ingersoll Avenue
3. 40th Place, on the North side of I-235
4. Locust Street from 1st Street to 6th Avenue
5. 6th Avenue from Locust Street to High Street
6. High Street from 6th Avenue to 8th Street
7. 8th Street from High Street to Pleasant Street
8. Pleasant Street from 8th Street to 12th Street
9. Court Avenue from 1st Street to 5th Avenue
10. 5th Avenue from Mulberry Street to Cherry Street
11. Mulberry Street from 5th Avenue to 10th Street
12. Cherry Street from 5th Avenue to 6th Avenue
13. E. Grand Avenue from Robert D. Ray Drive to E. 6th Street
14. E. Locust Street from Robert D. Ray Drive to Penn Avenue
15. E. Walnut Street from Robert D. Ray Drive to E. 4th Street
16. SW 28th Street and Wolcott Avenue area
17. 4th Street, north of Market Street
18. 2400 Block of East Park Avenue area
19. 1400 Block of County Line Road area
20. 3800 block of John Lynde Road
21. Capitol Avenue from E. 29th Street to E 30th Street

WHEREAS, notice of the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost was published as required by law.

DATE December 18, 2006

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the hearing on the plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost for said improvement be closed; and that said plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost are hereby approved as the plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost for said improvement.

BE IT FURTHER RESOLVED: That sealed bids for said improvement were submitted by the following bidders:

|   |  |
|---|--|
| Insituform Technologies USA, Inc.   | Chesterfield, MO   |
| Lametti & Sons, Inc.  | Hugo, MN   |
| Ace Pipe Cleaning, Inc.   | Kansas City, MO, Bid read under advisement – see bid tabulation attached to roll call. |
| Municipal Pipe Tool Co., Inc. & American Infrastructure Technology Corp., A Joint Venture | Hudson, IA & Cullman, AL   |
| Visu-Sewer Clean & Seal, Inc.   | Pewaukee, WI   |

which were received and opened at a public meeting presided over by the Jurisdictional Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on December 5, 2006. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.

BE IT FURTHER RESOLVED: That the Jurisdictional Engineer has determined that the lowest responsible, responsive bid for the construction of said improvement was submitted by Insituform Technologies USA, Inc., Thomas S. Rooney, Jr., President & CEO, 17988 Edison Avenue, Chesterfield, MO, 63005 in the amount of \$3,580,276.00, and said bid be and the same is hereby accepted.

BE IT FURTHER RESOLVED: That the bid security of the unsuccessful bidders be and is hereby authorized and directed to be returned.

★ **Roll Call Number**

Agenda Item Number

68

DATE December 18, 2006

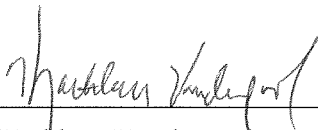
BE IT FURTHER RESOLVED: That the Jurisdictional Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Jurisdictional Engineer is directed to thereafter present said contract documents to this Council for approval and authorization to the Mayor to sign; and that no contract shall be deemed to exist between the City of Des Moines and said Bidder until said contract has been executed by the Bidder, and shall have been approved by this Council and executed by the Mayor and attested to by the City Clerk.

(City Council Communication Number 06-784 attached.)

Moved by \_\_\_\_\_ to adopt.

FORM APPROVED:

FUNDS AVAILABLE





Kathleen Vanderpool  
Deputy City Attorney

Allen McKinley  
Des Moines Finance Director

Funding Source: 2006-2007 CIP, Page Sanitary-13, Lining Sanitary Trunk and Lateral Sewers, SAE049, Various Funding, Being: 55% United States Environmental Protection Agency (EPA max. \$800,000) and 45% Local Match (\$2,780,276) from Sanitary Sewer Funds



| COUNCIL ACTION | YEAS | NAYS | PASS | ABSENT |
|----------------|------|------|------|--------|
| COWNIE         |      |      |      |        |
| COLEMAN        |      |      |      |        |
| HENSLEY        |      |      |      |        |
| KIERNAN        |      |      |      |        |
| MAHAFFEY       |      |      |      |        |
| VLASSIS        |      |      |      |        |
| TOTAL          |      |      |      |        |

MOTION CARRIED

APPROVED

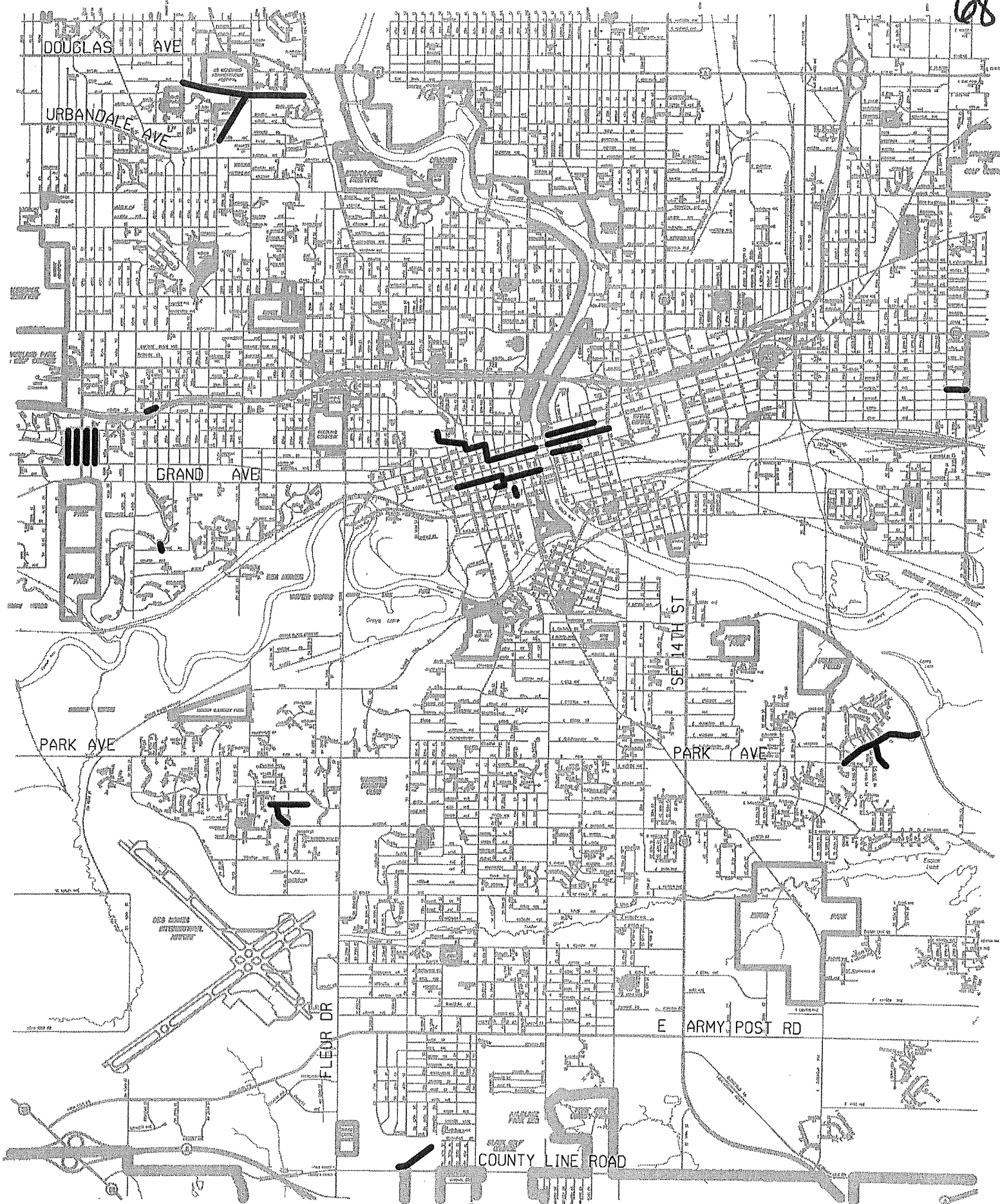
\_\_\_\_\_  
Mayor

**CERTIFICATE**

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, 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.

\_\_\_\_\_  
City Clerk



# 2006 SANITARY SEWER LINING PROGRAM

ACTIVITY ID: 07-2006-002

TABULATED BY: INMAN APPROVED BY *John F. Mcker*  
CHECKED BY: *SMF*

CONTRACTOR'S BID TABULATION  
PROJECT: 2006 SANITARY SEWER LINING PROGRAM

ESTIMATE

| ITEM                           | DESCRIPTION                 | QUANTITY | UNIT PRICE  | AMOUNT         |
|--------------------------------|-----------------------------|----------|-------------|----------------|
| 1                              | CIPP LINER, 8" DIA.         | 5100 LF  | \$25.00     | \$127,500.00   |
| 2                              | CIPP LINER, 10" DIA.        | 3150 LF  | \$25.00     | \$78,750.00    |
| 3                              | CIPP LINER, 12" DIA.        | 5700 LF  | \$35.00     | \$199,500.00   |
| 4                              | CIPP LINER, 15" DIA.        | 320 LF   | \$44.00     | \$14,080.00    |
| 5                              | CIPP LINER, 18" DIA.        | 3300 LF  | \$55.00     | \$181,500.00   |
| 6                              | CIPP LINER, 21" DIA.        | 300 LF   | \$60.00     | \$18,000.00    |
| 7                              | CIPP LINER, 24" DIA.        | 3500 LF  | \$75.00     | \$262,500.00   |
| 8                              | CIPPLINER, 26" EGG-SHAPE    | 8200 LF  | \$85.00     | \$697,000.00   |
| 9                              | CIPP LINER, 30" DIA         | 1300 LF  | \$90.00     | \$117,000.00   |
| 10                             | CIPP LINER, 30" EGG-SHAPE   | 1850 LF  | \$100.00    | \$185,000.00   |
| 11                             | CIPP LINER, 36" EGG-SHAPE   | 1500 LF  | \$120.00    | \$180,000.00   |
| 12                             | CIPP LINER, 40" DIA.        | 1200 LF  | \$180.00    | \$216,000.00   |
| 13                             | CIPP LINER, 54" DIA.        | 1300 LF  | \$340.00    | \$442,000.00   |
| 14                             | CIPP LINER, 60" LINER       | 700 LF   | \$400.00    | \$280,000.00   |
| 15                             | SPOT REPAIR, SANI.          | 8 EA     | \$14,500.00 | \$116,000.00   |
| 16                             | MANHOLE, 48" DIA. SANITARY  | 5 EA     | \$11,000.00 | \$55,000.00    |
| 17                             | MANHOLE REHAB., STRONG SEAL | 150 EA   | \$1,200.00  | \$180,000.00   |
| 18                             | SEWER SERVICES, RECONNECT   | 400 EA   | \$150.00    | \$60,000.00    |
| 19                             | BY-PASS PUMPING             | 1 JOB    | \$80,000.00 | \$80,000.00    |
| 20                             | CLEAN SANITARY SEWER        | 37420 LF | \$5.00      | \$187,100.00   |
| 21                             | CLEANINGS, SANITARY SEWER   | 300 TON  | \$40.00     | \$12,000.00    |
| 22                             | CLEANINGS, CONTAMINATED     | 50 TON   | \$80.00     | \$4,000.00     |
| 23                             | TRAFFIC CONTROL             | 1 JOB    | \$30,000.00 | \$30,000.00    |
| 24                             | PROJECT SIGN - SMALL        | 1 EA     | \$450.00    | \$450.00       |
| 25                             | RAISE MH TO GRADE           | 5 EA     | \$1,000.00  | \$5,000.00     |
| 26                             | TOPHATS                     | 100 EA   | \$1,500.00  | \$150,000.00   |
| TOTAL CONSTRUCTION COST        |                             |          |             | \$3,728,380.00 |
| PERCENT OF ENGINEER'S ESTIMATE |                             |          |             |                |

| INSITUFORM<br>CHESTERFIELD, MO. |              | 10% BID BOND |              | BID PRICE      |              |
|---------------------------------|--------------|--------------|--------------|----------------|--------------|
| UNIT PRICE                      | AMOUNT       | UNIT PRICE   | AMOUNT       | UNIT PRICE     | AMOUNT       |
| \$21.00                         | \$107,100.00 | \$21.00      | \$107,100.00 | \$21.00        | \$107,100.00 |
| \$22.00                         | \$69,300.00  | \$22.00      | \$69,300.00  | \$22.00        | \$69,300.00  |
| \$23.00                         | \$131,100.00 | \$23.00      | \$131,100.00 | \$23.00        | \$131,100.00 |
| \$41.00                         | \$13,120.00  | \$41.00      | \$13,120.00  | \$41.00        | \$13,120.00  |
| \$35.00                         | \$115,500.00 | \$35.00      | \$115,500.00 | \$35.00        | \$115,500.00 |
| \$49.00                         | \$14,700.00  | \$49.00      | \$14,700.00  | \$49.00        | \$14,700.00  |
| \$82.00                         | \$287,000.00 | \$82.00      | \$287,000.00 | \$82.00        | \$287,000.00 |
| \$91.00                         | \$746,200.00 | \$91.00      | \$746,200.00 | \$91.00        | \$746,200.00 |
| \$111.00                        | \$144,300.00 | \$111.00     | \$144,300.00 | \$111.00       | \$144,300.00 |
| \$110.00                        | \$203,500.00 | \$110.00     | \$203,500.00 | \$110.00       | \$203,500.00 |
| \$149.00                        | \$223,500.00 | \$149.00     | \$223,500.00 | \$149.00       | \$223,500.00 |
| \$146.00                        | \$175,200.00 | \$146.00     | \$175,200.00 | \$146.00       | \$175,200.00 |
| \$223.00                        | \$289,900.00 | \$223.00     | \$289,900.00 | \$223.00       | \$289,900.00 |
| \$284.00                        | \$198,800.00 | \$284.00     | \$198,800.00 | \$284.00       | \$198,800.00 |
| \$9,265.00                      | \$74,120.00  | \$9,265.00   | \$74,120.00  | \$9,265.00     | \$74,120.00  |
| \$19,050.00                     | \$95,250.00  | \$19,050.00  | \$95,250.00  | \$19,050.00    | \$95,250.00  |
| \$1,092.00                      | \$163,800.00 | \$1,092.00   | \$163,800.00 | \$1,092.00     | \$163,800.00 |
| \$110.00                        | \$44,000.00  | \$110.00     | \$44,000.00  | \$110.00       | \$44,000.00  |
| \$25,260.00                     | \$25,260.00  | \$25,260.00  | \$25,260.00  | \$25,260.00    | \$25,260.00  |
| \$5.80                          | \$217,036.00 | \$5.80       | \$217,036.00 | \$5.80         | \$217,036.00 |
| \$32.00                         | \$9,600.00   | \$32.00      | \$9,600.00   | \$32.00        | \$9,600.00   |
| \$103.00                        | \$5,150.00   | \$103.00     | \$5,150.00   | \$103.00       | \$5,150.00   |
| \$17,425.00                     | \$17,425.00  | \$17,425.00  | \$17,425.00  | \$17,425.00    | \$17,425.00  |
| \$515.00                        | \$515.00     | \$515.00     | \$515.00     | \$515.00       | \$515.00     |
| \$11,840.00                     | \$59,200.00  | \$11,840.00  | \$59,200.00  | \$11,840.00    | \$59,200.00  |
| \$1,497.00                      | \$149,700.00 | \$1,497.00   | \$149,700.00 | \$1,497.00     | \$149,700.00 |
| TOTAL CONSTRUCTION COST         |              |              |              | \$3,580,276.00 |              |
| PERCENT OF ENGINEER'S ESTIMATE  |              |              |              | -3.97%         |              |
|                                 |              |              |              | Low            |              |

| LAMETTI & SONS INC<br>HUGO, MN |              | 10% BID BOND |              | BID PRICE      |              |
|--------------------------------|--------------|--------------|--------------|----------------|--------------|
| UNIT PRICE                     | AMOUNT       | UNIT PRICE   | AMOUNT       | UNIT PRICE     | AMOUNT       |
| \$16.00                        | \$81,600.00  | \$16.00      | \$81,600.00  | \$16.00        | \$81,600.00  |
| \$17.00                        | \$53,550.00  | \$17.00      | \$53,550.00  | \$17.00        | \$53,550.00  |
| \$20.00                        | \$114,000.00 | \$20.00      | \$114,000.00 | \$20.00        | \$114,000.00 |
| \$28.00                        | \$8,960.00   | \$28.00      | \$8,960.00   | \$28.00        | \$8,960.00   |
| \$30.00                        | \$99,000.00  | \$30.00      | \$99,000.00  | \$30.00        | \$99,000.00  |
| \$50.00                        | \$15,000.00  | \$50.00      | \$15,000.00  | \$50.00        | \$15,000.00  |
| \$75.00                        | \$262,500.00 | \$75.00      | \$262,500.00 | \$75.00        | \$262,500.00 |
| \$80.00                        | \$656,000.00 | \$80.00      | \$656,000.00 | \$80.00        | \$656,000.00 |
| \$90.00                        | \$117,000.00 | \$90.00      | \$117,000.00 | \$90.00        | \$117,000.00 |
| \$95.00                        | \$175,750.00 | \$95.00      | \$175,750.00 | \$95.00        | \$175,750.00 |
| \$120.00                       | \$180,000.00 | \$120.00     | \$180,000.00 | \$120.00       | \$180,000.00 |
| \$125.00                       | \$150,000.00 | \$125.00     | \$150,000.00 | \$125.00       | \$150,000.00 |
| \$200.00                       | \$260,000.00 | \$200.00     | \$260,000.00 | \$200.00       | \$260,000.00 |
| \$260.00                       | \$182,000.00 | \$260.00     | \$182,000.00 | \$260.00       | \$182,000.00 |
| \$5,000.00                     | \$40,000.00  | \$5,000.00   | \$40,000.00  | \$5,000.00     | \$40,000.00  |
| \$10,000.00                    | \$50,000.00  | \$10,000.00  | \$50,000.00  | \$10,000.00    | \$50,000.00  |
| \$1,300.00                     | \$195,000.00 | \$1,300.00   | \$195,000.00 | \$1,300.00     | \$195,000.00 |
| \$200.00                       | \$80,000.00  | \$200.00     | \$80,000.00  | \$200.00       | \$80,000.00  |
| \$450,000.00                   | \$450,000.00 | \$450,000.00 | \$450,000.00 | \$450,000.00   | \$450,000.00 |
| \$8.00                         | \$299,360.00 | \$8.00       | \$299,360.00 | \$8.00         | \$299,360.00 |
| \$30.00                        | \$9,000.00   | \$30.00      | \$9,000.00   | \$30.00        | \$9,000.00   |
| \$100.00                       | \$5,000.00   | \$100.00     | \$5,000.00   | \$100.00       | \$5,000.00   |
| \$30,000.00                    | \$30,000.00  | \$30,000.00  | \$30,000.00  | \$30,000.00    | \$30,000.00  |
| \$850.00                       | \$850.00     | \$850.00     | \$850.00     | \$850.00       | \$850.00     |
| \$10,000.00                    | \$50,000.00  | \$10,000.00  | \$50,000.00  | \$10,000.00    | \$50,000.00  |
| \$1,000.00                     | \$100,000.00 | \$1,000.00   | \$100,000.00 | \$1,000.00     | \$100,000.00 |
| TOTAL CONSTRUCTION COST        |              |              |              | \$3,664,570.00 |              |
| PERCENT OF ENGINEER'S ESTIMATE |              |              |              | -1.71%         |              |

| ACE PIPE CLEANING<br>K.C., MO. |              | 10% BID BOND |              | BID PRICE      |              |
|--------------------------------|--------------|--------------|--------------|----------------|--------------|
| UNIT PRICE                     | AMOUNT       | UNIT PRICE   | AMOUNT       | UNIT PRICE     | AMOUNT       |
| \$26.50                        | \$135,150.00 | \$26.50      | \$135,150.00 | \$26.50        | \$135,150.00 |
| \$30.00                        | \$94,500.00  | \$30.00      | \$94,500.00  | \$30.00        | \$94,500.00  |
| \$37.00                        | \$210,900.00 | \$37.00      | \$210,900.00 | \$37.00        | \$210,900.00 |
| \$53.00                        | \$16,960.00  | \$53.00      | \$16,960.00  | \$53.00        | \$16,960.00  |
| \$53.00                        | \$174,900.00 | \$53.00      | \$174,900.00 | \$53.00        | \$174,900.00 |
| \$100.00                       | \$30,000.00  | \$100.00     | \$30,000.00  | \$100.00       | \$30,000.00  |
| \$100.00                       | \$350,000.00 | \$100.00     | \$350,000.00 | \$100.00       | \$350,000.00 |
| \$111.00                       | \$910,200.00 | \$111.00     | \$910,200.00 | \$111.00       | \$910,200.00 |
| \$132.00                       | \$171,600.00 | \$132.00     | \$171,600.00 | \$132.00       | \$171,600.00 |
| \$138.00                       | \$255,300.00 | \$138.00     | \$255,300.00 | \$138.00       | \$255,300.00 |
| \$196.00                       | \$294,000.00 | \$196.00     | \$294,000.00 | \$196.00       | \$294,000.00 |
| \$212.00                       | \$254,400.00 | \$212.00     | \$254,400.00 | \$212.00       | \$254,400.00 |
| \$302.00                       | \$392,600.00 | \$302.00     | \$392,600.00 | \$302.00       | \$392,600.00 |
| \$318.00                       | \$222,600.00 | \$318.00     | \$222,600.00 | \$318.00       | \$222,600.00 |
| \$1,600.00                     | \$12,800.00  | \$1,600.00   | \$12,800.00  | \$1,600.00     | \$12,800.00  |
| \$2,600.00                     | \$13,000.00  | \$2,600.00   | \$13,000.00  | \$2,600.00     | \$13,000.00  |
| \$1,235.00                     | \$185,250.00 | \$1,235.00   | \$185,250.00 | \$1,235.00     | \$185,250.00 |
| \$53.00                        | \$21,200.00  | \$53.00      | \$21,200.00  | \$53.00        | \$21,200.00  |
| \$127,500.00                   | \$127,500.00 | \$127,500.00 | \$127,500.00 | \$127,500.00   | \$127,500.00 |
| \$4.00                         | \$149,680.00 | \$4.00       | \$149,680.00 | \$4.00         | \$149,680.00 |
| \$50.00                        | \$15,000.00  | \$50.00      | \$15,000.00  | \$50.00        | \$15,000.00  |
| \$250.00                       | \$12,500.00  | \$250.00     | \$12,500.00  | \$250.00       | \$12,500.00  |
| \$9,500.00                     | \$9,500.00   | \$9,500.00   | \$9,500.00   | \$9,500.00     | \$9,500.00   |
| \$110.00                       | \$110.00     | \$110.00     | \$110.00     | \$110.00       | \$110.00     |
| \$12,000.00                    | \$60,000.00  | \$12,000.00  | \$60,000.00  | \$12,000.00    | \$60,000.00  |
| \$1,150.00                     | \$115,000.00 | \$1,150.00   | \$115,000.00 | \$1,150.00     | \$115,000.00 |
| TOTAL CONSTRUCTION COST        |              |              |              | \$4,234,650.00 |              |
| PERCENT OF ENGINEER'S ESTIMATE |              |              |              | +13.58%        |              |

BID READ UNDER ADVICE.  
BIDDER FAILED TO IDENTIFY  
PRESIDENT OR CEO ON  
PROPOSAL PART G

DEPARTMENT OF ENGINEERING  
CITY OF DES MOINES, IOWA  
ACT. ID: 07-2006-002

TABULATED BY: SMJ APPROVED BY: John F. McKee BID DATE: 12/15/06  
CHECKED BY: SMJ

**CONTRACTOR'S BID TABULATION**  
**PROJECT: 2006 SANITARY SEWER LINING PROGRAM**

**ESTIMATE**

| ITEM                           | DESCRIPTION                 | QUANTITY | UNIT        |                | MUNICIPAL PIPE TOOL AMERICAN TECH. CORP. JOINT VENTURE HUDSON IA CULLMAN AL. 10% BID BOND BID PRICE |                | VISU-SEWER PEWAUKEE, WI 10% BID BOND BID PRICE |                |
|--------------------------------|-----------------------------|----------|-------------|----------------|---|----------------|--|----------------|
|                                |                             |          | PRICE       | AMOUNT         | PRICE   | AMOUNT         | PRICE  | AMOUNT         |
| 1                              | CIPP LINER, 8" DIA.         | 5100 LF  | \$25.00     | \$127,500.00   | \$19.00   | \$96,900.00    | \$29.00  | \$149,850.00   |
| 2                              | CIPP LINER, 10" DIA.        | 3150 LF  | \$25.00     | \$78,750.00    | \$25.30   | \$79,695.00    | \$29.00  | \$91,350.00    |
| 3                              | CIPP LINER, 12" DIA.        | 5700 LF  | \$35.00     | \$199,500.00   | \$27.80   | \$158,460.00   | \$37.00  | \$210,900.00   |
| 4                              | CIPP LINER, 15" DIA.        | 320 LF   | \$44.00     | \$14,080.00    | \$55.00   | \$17,600.00    | \$45.00  | \$14,400.00    |
| 5                              | CIPP LINER, 18" DIA.        | 3300 LF  | \$55.00     | \$181,500.00   | \$57.00   | \$188,100.00   | \$64.50  | \$212,850.00   |
| 6                              | CIPP LINER, 21" DIA.        | 300 LF   | \$60.00     | \$18,000.00    | \$81.00   | \$24,300.00    | \$66.00  | \$19,800.00    |
| 7                              | CIPP LINER, 24" DIA.        | 3500 LF  | \$75.00     | \$262,500.00   | \$100.00  | \$350,000.00   | \$132.00                                       | \$462,000.00   |
| 8                              | CIPPLINER, 26" EGG-SHAPE    | 8200 LF  | \$85.00     | \$697,000.00   | \$117.00  | \$959,400.00   | \$96.00  | \$787,200.00   |
| 9                              | CIPP LINER, 30" DIA         | 1300 LF  | \$90.00     | \$117,000.00   | \$139.00  | \$180,700.00   | \$136.00                                       | \$176,800.00   |
| 10                             | CIPP LINER, 30" EGG-SHAPE   | 1850 LF  | \$100.00    | \$185,000.00   | \$147.00  | \$271,950.00   | \$130.00                                       | \$240,500.00   |
| 11                             | CIPP LINER, 36" EGG-SHAPE   | 1500 LF  | \$120.00    | \$180,000.00   | \$165.00  | \$247,500.00   | \$184.00                                       | \$276,000.00   |
| 12                             | CIPP LINER, 40" DIA.        | 1200 LF  | \$180.00    | \$216,000.00   | \$172.00  | \$206,400.00   | \$216.00                                       | \$259,200.00   |
| 13                             | CIPP LINER, 54" DIA.        | 1300 LF  | \$340.00    | \$442,000.00   | \$275.00  | \$357,500.00   | \$340.00                                       | \$442,000.00   |
| 14                             | CIPP LINER, 60" LINER       | 700 LF   | \$400.00    | \$280,000.00   | \$367.00  | \$256,900.00   | \$345.00                                       | \$241,500.00   |
| 15                             | SPOT REPAIR, SANI.          | 8 EA     | \$14,500.00 | \$116,000.00   | \$8,400.00  | \$67,200.00    | \$9,720.00                                     | \$77,760.00    |
| 16                             | MANHOLE, 48" DIA. SANITARY  | 5 EA     | \$11,000.00 | \$55,000.00    | \$16,800.00   | \$84,000.00    | \$19,980.00                                    | \$99,900.00    |
| 17                             | MANHOLE REHAB., STRONG SEAL | 150 EA   | \$1,200.00  | \$180,000.00   | \$1,550.00  | \$232,500.00   | \$1,050.00                                     | \$157,500.00   |
| 18                             | SEWER SERVICES, RECONNECT   | 400 EA   | \$150.00    | \$60,000.00    | \$125.00  | \$50,000.00    | \$150.00                                       | \$60,000.00    |
| 19                             | BY-PASS PUMPING             | 1 JOB    | \$80,000.00 | \$80,000.00    | \$150,000.00  | \$150,000.00   | \$126,000.00                                   | \$126,000.00   |
| 20                             | CLEAN SANITARY SEWER        | 37420 LF | \$5.00      | \$187,100.00   | \$2.80  | \$104,776.00   | \$3.00   | \$112,260.00   |
| 21                             | CLEANINGS, SANITARY SEWER   | 300 TON  | \$40.00     | \$12,000.00    | \$50.00   | \$15,000.00    | \$35.00  | \$10,500.00    |
| 22                             | CLEANINGS, CONTAMINATED     | 50 TON   | \$80.00     | \$4,000.00     | \$100.00  | \$5,000.00     | \$50.00  | \$2,500.00     |
| 23                             | TRAFFIC CONTROL             | 1 JOB    | \$30,000.00 | \$30,000.00    | \$66,344.00   | \$66,344.00    | \$30,000.00                                    | \$30,000.00    |
| 24                             | PROJECT SIGN - SMALL        | 1 EA     | \$450.00    | \$450.00       | \$1,125.00  | \$1,125.00     | \$500.00                                       | \$500.00       |
| 25                             | RAISE MH TO GRADE           | 5 EA     | \$1,000.00  | \$5,000.00     | \$3,100.00  | \$15,500.00    | \$12,420.00                                    | \$62,100.00    |
| 26                             | TOPHATS                     | 100 EA   | \$1,500.00  | \$150,000.00   | \$1,635.00  | \$163,500.00   | \$1,550.00                                     | \$155,000.00   |
| TOTAL CONSTRUCTION COST        |                             |          |             | \$3,728,380.00 |   | \$4,363,100.00 |  | \$4,425,420.00 |
| PERCENT OF ENGINEER'S ESTIMATE |                             |          |             |                |   | +17.02%        |  | +18.70%        |