

August 29, 2006

TO: Phillip L. Nelson, City Manager

FROM: Brian Murphy, Assistant City Manager/Services
Steven J. Vandette, City Engineer 

SUBJECT: **AGENDA ITEM** - Standard Purchasing Resolution #1: Award to Low Bidder
Contract 06-9 – Industrial Row Drive & Meijer Drive Reconstruction and
Water Main Reconstruction

RECOMMENDATION

It is recommended that City Council award a contract for the Industrial Row Drive & Meijer Drive Reconstruction and Water Main Reconstruction project to Six-S, Inc., 2210 Scott Lake Road, Waterford, MI, 48328 for their low bid of \$3,283,950.40 contingent upon submission of proper proposal and bid documents, including insurance certificates, bonds and all specified requirements.

In addition, we are requesting authorization to approve additional work, if needed, not to exceed 15% of the original project cost. This amount is 5% higher than our typical contingency due to the significant amount of underground water main work on this project and a corresponding higher potential for conflicts with existing utilities.

BACKGROUND INFORMATION

Bids were received and publicly read on August 29, 2006. The low bidder was Six-S, Inc., as can be seen in the attached tabulation of bids. The Engineer's estimate at the time of bidding was \$3,639,952.28. The low bid is therefore \$356,001.77 or 9.56% below the Engineer's estimate.

This project includes road and water main replacements on Industrial Row and Meijer Drive. The existing 12" water main will be replaced with a new 16" water main from Coolidge to Crooks Road. Temporary roads to maintain traffic will be constructed in the fall of 2006 to allow for water main construction throughout the winter of 2006/07. Once the water main is complete and as weather allows in the spring of 2007, Meijer Drive and Industrial Row will be completely reconstructed. The existing road on Industrial Row will be removed and replaced with a new concrete pavement section from Coolidge to the east end of Industrial Row and on Meijer from Crooks to the west city limits. Restoration and final project clean up will be completed in the fall of 2007.

FUNDING

Funds for this work are included in the 2006/07 Water Fund, account numbers 555.7972.065045 and 555.7972.065055. The budgeted amounts include funds for construction, inspection and contingencies.

19 - Bids Sent / 9 - Bids Rec'd

Prepared by: Steven J. Vandette, City Engineer

G:\Contracts\Contracts - 2006\06-09 Industrial Row and Meijer Reconstruction and Water Main\Correspondence\Bid Award.doc

ENGINEER'S ESTIMATE

Six-S, Inc.
2210 Scott Lake Road
Waterford, MI 48328

Angelo Iafate Construction
26300 Sherwood
Warren, MI 48091

Pamar Enterprises, Inc.
58021 Gratiot Avenue
New Haven, MI 48048

Item	Quantity	Unit Price	Total Cost						
1. Mobilization, Max. \$167,000	1 LS	\$167,000.00	\$167,000.00	\$167,000.00	\$167,000.00	\$167,000.00	\$167,000.00	\$100,000.00	\$100,000.00
2. Tree Remove, 6" to 18"	80 ea	\$225.00	\$18,000.00	\$150.71	\$12,056.80	\$150.00	\$12,000.00	\$675.00	\$54,000.00
3. Tree Remove, 19" to 36"	2 ea	\$500.00	\$1,000.00	\$678.20	\$1,356.40	\$680.00	\$1,360.00	\$150.00	\$300.00
4. Dr Structure, Remove	20 ea	\$250.00	\$5,000.00	\$251.18	\$5,023.60	\$203.00	\$4,060.00	\$198.00	\$3,960.00
5. Sewer, Remove, Less than 24"	426 lft	\$18.00	\$7,668.00	\$14.07	\$5,993.82	\$10.80	\$4,600.80	\$13.85	\$5,900.10
6. Pavement, Remove	24,900 syd	\$4.50	\$112,050.00	\$5.30	\$131,970.00	\$5.00	\$124,500.00	\$3.60	\$89,640.00
7. Sidewalk, Remove	302 syd	\$5.00	\$1,510.00	\$2.49	\$751.98	\$5.25	\$1,585.50	\$1.50	\$453.00
8. Fence, Remove	155 lft	\$2.00	\$310.00	\$2.00	\$310.00	\$2.95	\$457.25	\$1.95	\$302.25
9. Guardrail, Remove	30 lft	\$3.00	\$90.00	\$4.54	\$136.20	\$5.65	\$169.50	\$5.00	\$150.00
10. Remove Curing Compound for Longitudinal Marking	7,949 lft	\$0.30	\$2,384.70	\$0.45	\$3,577.05	\$0.45	\$3,577.05	\$0.45	\$3,577.05
11. Property Protection Fence	5,800 lft	\$1.25	\$7,250.00	\$1.81	\$10,498.00	\$2.75	\$15,950.00	\$2.50	\$14,500.00
12. Remove Curing Compound for Spec Marking	714 sft	\$0.90	\$642.60	\$1.76	\$1,256.64	\$1.75	\$1,249.50	\$1.75	\$1,249.50
13. Exploration for Utility Location (if needed)	120 lft	\$18.00	\$2,160.00	\$20.09	\$2,410.80	\$8.75	\$1,050.00	\$13.00	\$1,560.00
14. Relocating Landscaping Boulders	1 LS	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00	\$1,800.00	\$1,800.00	\$1,506.00	\$1,506.00
15. Road Ends Barricade	1 LS	\$1,500.00	\$1,500.00	\$1,255.92	\$1,255.92	\$5,050.00	\$5,050.00	\$1,670.00	\$1,670.00
16. Fence, Chain Link, 60 inch	155 lft	\$18.00	\$2,790.00	\$13.26	\$2,055.30	\$30.00	\$4,650.00	\$13.20	\$2,046.00
17. Ex. Meijer Road - Remove & Replace, Royal Oak	1 LS	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$3,290.00	\$3,290.00	\$2,476.00	\$2,476.00
18. Post, Mailbox	2 ea	\$150.00	\$300.00	\$74.85	\$149.70	\$100.00	\$200.00	\$108.05	\$216.10
19. Embankment, CIP	1,000 cyd	\$8.00	\$8,000.00	\$2.50	\$2,500.00	\$2.30	\$2,300.00	\$7.20	\$7,200.00
20. Excavation, Earth	20,300 cyd	\$7.00	\$142,100.00	\$6.80	\$138,040.00	\$4.00	\$81,200.00	\$6.30	\$127,890.00
21. Station Grading (For Temp. Road)	81 sta	\$600.00	\$48,600.00	\$200.00	\$16,200.00	\$560.00	\$45,360.00	\$659.00	\$53,379.00
22. Granular Material, CI II	25 cyd	\$15.00	\$375.00	\$35.00	\$875.00	\$40.10	\$1,002.50	\$30.10	\$752.50
23. Subgrade Undercutting, 1" x 3"	4,000 cyd	\$25.00	\$100,000.00	\$22.00	\$88,000.00	\$23.00	\$92,000.00	\$26.45	\$105,800.00
24. Subgrade Undercutting, 21AA	1,000 cyd	\$22.00	\$22,000.00	\$33.18	\$33,180.00	\$24.50	\$24,500.00	\$27.30	\$27,300.00
25. Geotextile Grid	13,200 syd	\$6.00	\$79,200.00	\$1.97	\$26,004.00	\$3.90	\$51,480.00	\$3.70	\$48,840.00
26. Erosion Control, Inlet Protection, Fabric Drop	45 ea	\$65.00	\$2,925.00	\$45.21	\$2,034.45	\$36.20	\$1,629.00	\$38.50	\$1,732.50
27. Erosion Control, Silt Fence	10,125 lft	\$1.00	\$10,125.00	\$0.85	\$8,606.25	\$1.15	\$11,643.75	\$0.90	\$9,112.50
28. Aggregate Base, 8", CIP, 21AA, Modified	31,482 syd	\$6.00	\$188,892.00	\$3.50	\$110,187.00	\$6.40	\$201,484.80	\$5.70	\$179,447.40

ENGINEER'S ESTIMATE

Six-S, Inc.
2210 Scott Lake Road
Waterford, MI 48328

Angelo Iafate Construction
26300 Sherwood
Warren, MI 48091

Pamar Enterprises, Inc.
58021 Gratiot Avenue
New Haven, MI 48048

Item	Quantity	Unit Price	Total Cost						
29. Temporary Aggregate Base, 4", CIP	9,969 syd	\$8.00	\$79,752.00	\$3.35	\$33,396.15	\$4.30	\$42,866.70	\$3.10	\$30,903.90
30. HMA Mixture 36A (2")	66 ton	\$60.00	\$3,960.00	\$150.71	\$9,946.86	\$150.00	\$9,900.00	\$94.30	\$6,223.80
31. HMA Mixture 13A (4" in 2 lifts)	132 ton	\$60.00	\$7,920.00	\$150.71	\$19,893.72	\$150.00	\$19,800.00	\$120.25	\$15,873.00
32. Maintenance Aggregate	12,000 ton	\$14.00	\$168,000.00	\$0.01	\$120.00	\$5.00	\$60,000.00	\$15.50	\$186,000.00
33. Cold Patch	300 ton	\$100.00	\$30,000.00	\$70.00	\$21,000.00	\$45.00	\$13,500.00	\$170.90	\$51,270.00
34. Cement	60 ton	\$125.00	\$7,500.00	\$150.00	\$9,000.00	\$133.00	\$7,980.00	\$122.00	\$7,320.00
35. Open Graded Drainage Course, 6", 5G	20,766 syd	\$6.00	\$124,596.00	\$4.90	\$101,753.40	\$4.80	\$99,676.80	\$5.10	\$105,906.60
36. Geotextile Fabric, Type NW8	22,374 syd	\$1.50	\$33,561.00	\$3.50	\$78,309.00	\$2.50	\$55,935.00	\$1.25	\$27,967.50
37. Temporary HMA	2,194 ton	\$60.00	\$131,640.00	\$55.90	\$122,644.60	\$55.70	\$122,205.80	\$59.50	\$130,543.00
38. Driveway, Nonreinf Conc, 8 inch	5,576 syd	\$40.00	\$223,040.00	\$31.15	\$173,692.40	\$32.00	\$178,432.00	\$31.00	\$172,856.00
39. Curb and Gutter, Conc, Det F3	6,971 lft	\$11.00	\$76,681.00	\$9.04	\$63,017.84	\$9.55	\$66,573.05	\$10.75	\$74,938.25
40. Driveway Opening, Conc, Det M	3,792 lft	\$12.00	\$45,504.00	\$9.55	\$36,213.60	\$12.20	\$46,262.40	\$12.00	\$45,504.00
41. Sidewalk, Conc, 4 inch	2,234 sft	\$3.20	\$7,148.80	\$3.00	\$6,702.00	\$2.45	\$5,473.30	\$3.00	\$6,702.00
42. Sidewalk Ramp	386 sft	\$5.00	\$1,930.00	\$6.03	\$2,327.58	\$3.95	\$1,524.70	\$4.50	\$1,737.00
43. Conc. Pvmt, Misc, Nonreinf, 9 inch	1,100 syd	\$34.00	\$37,400.00	\$32.00	\$35,200.00	\$32.90	\$36,190.00	\$26.85	\$29,535.00
44. Conc. Pvmt, Nonreinf, 9 inch	7,836 syd	\$27.00	\$211,572.00	\$30.65	\$240,173.40	\$28.00	\$219,408.00	\$26.85	\$210,396.60
45. Conc. Pvmt, Misc, Nonreinf, 10 inch	860 syd	\$38.00	\$32,680.00	\$34.00	\$29,240.00	\$36.50	\$31,390.00	\$30.10	\$25,886.00
46. Conc. Pvmt, Nonreinf, 10 inch	8,428 syd	\$29.50	\$248,626.00	\$31.75	\$267,589.00	\$31.00	\$261,268.00	\$30.10	\$253,682.80
47. Transverse Contraction Joint,	10,864 lft	\$2.60	\$28,246.40	\$1.50	\$16,296.00	\$2.05	\$22,271.20	\$1.75	\$19,012.00
48. Joint, Expansion, E3	555 lft	\$5.00	\$2,775.00	\$2.00	\$1,110.00	\$4.05	\$2,247.75	\$2.70	\$1,498.50
49. Pavement Gapping	480 lft	\$15.00	\$7,200.00	\$9.00	\$4,320.00	\$6.25	\$3,000.00	\$27.25	\$13,080.00
50. Lane Tie, Epoxy Anchored	178 ea	\$8.00	\$1,424.00	\$4.66	\$829.48	\$6.35	\$1,130.30	\$6.50	\$1,157.00
51. Sprinkler Head, Relocate	25 ea	\$100.00	\$2,500.00	\$50.24	\$1,256.00	\$35.00	\$875.00	\$35.00	\$875.00
52. Sprinkler Head, Replace	35 ea	\$200.00	\$7,000.00	\$50.24	\$1,758.40	\$50.00	\$1,750.00	\$50.00	\$1,750.00
53. Sprinkler Line	1,200 lft	\$12.00	\$14,400.00	\$1.00	\$1,200.00	\$1.00	\$1,200.00	\$1.00	\$1,200.00
54. Sanitary Lead Relocation (if needed)	10 ea	\$800.00	\$8,000.00	\$1,507.11	\$15,071.10	\$380.00	\$3,800.00	\$1,336.30	\$13,363.00
55. Sewer, C76 CI-IV, 12", Tr Det B (C.S.B.)	600 lft	\$60.00	\$36,000.00	\$47.22	\$28,332.00	\$38.30	\$22,980.00	\$22.30	\$13,380.00
56. Trench Undercut and Backfill	400 cyd	\$30.00	\$12,000.00	\$30.14	\$12,056.00	\$25.80	\$10,320.00	\$19.60	\$7,840.00
57. Dr Structure Tap, 12"	8 ea	\$300.00	\$2,400.00	\$1,093.15	\$8,745.20	\$270.00	\$2,160.00	\$385.90	\$3,087.20
58. Dr Structure, 24" (if needed)	1 ea	\$1,200.00	\$1,200.00	\$920.34	\$920.34	\$850.00	\$850.00	\$438.00	\$438.00
59. Dr Structure, 48"	23 ea	\$1,400.00	\$32,200.00	\$1,117.27	\$25,697.21	\$1,040.00	\$23,920.00	\$806.60	\$18,551.80
60. Dr Structure, 48", Over Existin	2 ea	\$1,800.00	\$3,600.00	\$1,464.91	\$2,929.82	\$1,700.00	\$3,400.00	\$1,459.65	\$2,919.30

ENGINEER'S ESTIMATE

Six-S, Inc.
2210 Scott Lake Road
Waterford, MI 48328

Angelo lafrate Construction
26300 Sherwood
Warren, MI 48091

Pamar Enterprises, Inc.
58021 Gratiot Avenue
New Haven, MI 48048

Item	Quantity	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
61. Dr Structure Cover	14,450 lbs	\$1.10	\$15,895.00	\$1.00	\$14,450.00	\$0.80	\$11,560.00	\$1.19	\$17,195.50
62. Dr Structure Cover, Adj	18 ea	\$220.00	\$3,960.00	\$350.00	\$6,300.00	\$310.00	\$5,580.00	\$102.60	\$1,846.80
63. Dr Structure Cover, Adj, Add Depth	4 lft	\$200.00	\$800.00	\$200.00	\$800.00	\$203.00	\$812.00	\$282.85	\$1,131.40
64. Rebuild Structure(if needed)	4 ea	\$250.00	\$1,000.00	\$1,089.14	\$4,356.56	\$730.00	\$2,920.00	\$630.65	\$2,522.60
65. Reconstructing Structures, Special	24 lft	\$125.00	\$3,000.00	\$128.61	\$3,086.64	\$163.00	\$3,912.00	\$138.55	\$3,325.20
66. Underdrain, Subgrade, 6"	10,700 lft	\$8.00	\$85,600.00	\$9.87	\$105,609.00	\$9.35	\$100,045.00	\$11.60	\$124,120.00
67. Sewer Bulkhead, 12"	3 ea	\$500.00	\$1,500.00	\$145.69	\$437.07	\$118.00	\$354.00	\$102.60	\$307.80
68. Sign, Type IIIB	124 sft	\$12.00	\$1,488.00	\$18.09	\$2,243.16	\$19.00	\$2,356.00	\$16.00	\$1,984.00
69. Sign, Type III, Rem	33 ea	\$15.00	\$495.00	\$30.14	\$994.62	\$25.00	\$825.00	\$10.00	\$330.00
70. Sign, Type III, Rem, Salvage	3 ea	\$50.00	\$150.00	\$50.24	\$150.72	\$85.00	\$255.00	\$50.00	\$150.00
71. Post, Steel, 3 lb	456 lft	\$5.00	\$2,280.00	\$5.27	\$2,403.12	\$6.00	\$2,736.00	\$6.00	\$2,736.00
72. Pavt Mrkg, Ovly Cold Plastic, 6", Crosswalk	90 lft	\$2.00	\$180.00	\$2.96	\$266.40	\$2.95	\$265.50	\$2.95	\$265.50
73. Pavt Mrkg, Ovly Cold Plastic, 24" Stop Bar	48 lft	\$8.00	\$384.00	\$10.55	\$506.40	\$10.50	\$504.00	\$10.50	\$504.00
74. Pavt Mrkg, Ovly Cold Plastic, Left Turn Arrow Sym	4 ea	\$80.00	\$320.00	\$135.64	\$542.56	\$135.00	\$540.00	\$135.00	\$540.00
75. Pavt Mrkg, Ovly Cold Plastic, Only	4 ea	\$82.00	\$328.00	\$145.69	\$582.76	\$145.00	\$580.00	\$145.00	\$580.00
76. Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	2 ea	\$82.00	\$164.00	\$135.64	\$271.28	\$135.00	\$270.00	\$135.00	\$270.00
77. Pavt Mrkg, Sprayable Thermoplastic, 4", White	287 lft	\$0.40	\$114.80	\$0.47	\$134.89	\$0.45	\$129.15	\$0.50	\$143.50
78. Pavt Mrkg, Sprayable Thermoplastic, 4", Yellow	7,662 lft	\$0.40	\$3,064.80	\$0.47	\$3,601.14	\$0.45	\$3,447.90	\$0.50	\$3,831.00
79. Barricade, Type III, High Intensity, Lighted, Furn	4 ea	\$80.00	\$320.00	\$200.00	\$800.00	\$125.00	\$500.00	\$125.00	\$500.00
80. Barricade, Type III, High Intensity, Lighted, Oper	4 ea	\$80.00	\$320.00	\$1.01	\$4.04	\$0.01	\$0.04	\$0.01	\$0.04
81. Flag Control	1 LS	\$12,000.00	\$12,000.00	\$46,000.00	\$46,000.00	\$40,700.00	\$40,700.00	\$24,580.72	\$24,580.72
82. Lighted Arrow, Type A, Furn	2 ea	\$800.00	\$1,600.00	\$361.71	\$723.42	\$950.00	\$1,900.00	\$950.00	\$1,900.00
83. Lighted Arrow, Type A, Oper	2 ea	\$800.00	\$1,600.00	\$1.01	\$2.02	\$0.01	\$0.02	\$0.01	\$0.02
84. Minor Traf Devices	1 LS	\$8,000.00	\$8,000.00	\$47,000.00	\$47,000.00	\$60,000.00	\$60,000.00	\$3,605.70	\$3,605.70
85. Pavt Mrkg, Type R, 4", White, Temp	4,485 ft	\$1.20	\$5,382.00	\$1.46	\$6,548.10	\$1.45	\$6,503.25	\$1.45	\$6,503.25
86. Pavt Mrkg, Type R, 4", Yellow, Temp	400 ft	\$1.20	\$480.00	\$1.46	\$584.00	\$1.45	\$580.00	\$1.45	\$580.00

ENGINEER'S ESTIMATE

Six-S, Inc.
2210 Scott Lake Road
Waterford, MI 48328

Angelo lafrate Construction
26300 Sherwood
Warren, MI 48091

Pamar Enterprises, Inc.
58021 Gratiot Avenue
New Haven, MI 48048

Item	Quantity	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
87. Plastic Drum, High Intensity, Lighted, Furn	238 ea	\$33.00	\$7,854.00	\$15.07	\$3,586.66	\$55.00	\$13,090.00	\$55.00	\$13,090.00
88. Plastic Drum, High Intensity, Lighted, Oper	238 ea	\$1.00	\$238.00	\$1.00	\$238.00	\$0.01	\$2.38	\$0.01	\$2.38
89. Sign, Type B, Temp, Furn	1,056 sft	\$3.00	\$3,168.00	\$2.01	\$2,122.56	\$4.00	\$4,224.00	\$4.00	\$4,224.00
90. Sign, Type B, Temp, Oper	1,056 sft	\$1.00	\$1,056.00	\$1.00	\$1,056.00	\$0.01	\$10.56	\$0.01	\$10.56
91. Class A Sodding	18,950 syd	\$3.00	\$56,850.00	\$1.81	\$34,299.50	\$1.80	\$34,110.00	\$1.80	\$34,110.00
92. Sod Replacement	1,600 syd	\$4.30	\$6,880.00	\$2.01	\$3,216.00	\$2.00	\$3,200.00	\$2.00	\$3,200.00
93. Mowing, Sod Replacement Areas	1,600 syd	\$2.00	\$3,200.00	\$0.15	\$240.00	\$0.15	\$240.00	\$0.15	\$240.00
94. Watering Sod Replacement Areas, 1000 gal./unit	60 unit	\$8.00	\$480.00	\$20.09	\$1,205.40	\$20.00	\$1,200.00	\$20.00	\$1,200.00
95. Hydroseeding	1,650 syd	\$2.00	\$3,300.00	\$0.75	\$1,237.50	\$0.75	\$1,237.50	\$0.75	\$1,237.50
96. Topsoil Surface Furnished, 4"	20,600 syd	\$2.00	\$41,200.00	\$2.01	\$41,406.00	\$2.50	\$51,500.00	\$2.00	\$41,200.00
97. Weed Killer, Special	18,000 syd	\$0.15	\$2,700.00	\$0.10	\$1,800.00	\$0.10	\$1,800.00	\$0.10	\$1,800.00
98. Watering Sod, 1000 Gallon Ur	640 unit	\$8.00	\$5,120.00	\$10.05	\$6,432.00	\$10.00	\$6,400.00	\$10.00	\$6,400.00
99. Hydrant, Remove	11 ea	\$800.00	\$8,800.00	\$502.37	\$5,526.07	\$440.00	\$4,840.00	\$389.55	\$4,285.05
100. Remove Gate Valve & Well	14 ea	\$600.00	\$8,400.00	\$502.37	\$7,033.18	\$560.00	\$7,840.00	\$404.85	\$5,667.90
101. Temporary Blowoff Valve, 2"	14 ea	\$500.00	\$7,000.00	\$502.37	\$7,033.18	\$540.00	\$7,560.00	\$314.40	\$4,401.60
102. Temporary Hydrant Relocation	7 ea	\$3,200.00	\$22,400.00	\$2,394.29	\$16,760.03	\$1,540.00	\$10,780.00	\$1,111.00	\$7,777.00
103. 4" WM, Abandoned in Place, Grouted	50 lft	\$5.00	\$250.00	\$10.05	\$502.50	\$3.50	\$175.00	\$3.35	\$167.50
104. 6" WM, Abandoned in Place, Grouted	84 lft	\$6.00	\$504.00	\$12.06	\$1,013.04	\$3.65	\$306.60	\$4.00	\$336.00
105. 12" WM, Abandoned in Place, Grouted	636 lft	\$12.00	\$7,632.00	\$14.07	\$8,948.52	\$3.95	\$2,512.20	\$6.00	\$3,816.00
106. Cut and Cap Exist WM, 4"	3 ea	\$320.00	\$960.00	\$122.58	\$367.74	\$260.00	\$780.00	\$230.30	\$690.90
107. Cut and Cap Exist WM, 6"	4 ea	\$360.00	\$1,440.00	\$130.62	\$522.48	\$380.00	\$1,520.00	\$256.50	\$1,026.00
108. Cut and Cap Exist WM, 8"	3 ea	\$400.00	\$1,200.00	\$144.68	\$434.04	\$430.00	\$1,290.00	\$265.25	\$795.75
109. Cut and Cap Exist WM, 12"	42 ea	\$540.00	\$22,680.00	\$177.84	\$7,469.28	\$450.00	\$18,900.00	\$392.70	\$16,493.40
110. Water Main Connection, 4"	1 ea	\$1,000.00	\$1,000.00	\$681.21	\$681.21	\$950.00	\$950.00	\$2,082.40	\$2,082.40
111. Water Main Connection, 6"	3 ea	\$1,200.00	\$3,600.00	\$703.32	\$2,109.96	\$1,260.00	\$3,780.00	\$2,152.30	\$6,456.90
112. Water Main Connection, 8"	2 ea	\$1,600.00	\$3,200.00	\$719.39	\$1,438.78	\$1,360.00	\$2,720.00	\$1,916.40	\$3,832.80
113. Water Main Connection, 12"	8 ea	\$2,400.00	\$19,200.00	\$766.62	\$6,132.96	\$2,160.00	\$17,280.00	\$2,631.70	\$21,053.60
114. Fire Hydrant, 6" Assembly	14 ea	\$3,200.00	\$44,800.00	\$3,297.55	\$46,165.70	\$2,980.00	\$41,720.00	\$2,496.50	\$34,951.00
115. 4" Gate Valve & Well	1 ea	\$2,700.00	\$2,700.00	\$2,612.32	\$2,612.32	\$2,220.00	\$2,220.00	\$2,276.90	\$2,276.90
116. 6" Gate Valve & Well	3 ea	\$3,300.00	\$9,900.00	\$2,618.35	\$7,855.05	\$2,300.00	\$6,900.00	\$2,343.50	\$7,030.50
117. 8" Gate Valve & Well	2 ea	\$3,500.00	\$7,000.00	\$2,788.15	\$5,576.30	\$2,570.00	\$5,140.00	\$2,565.15	\$5,130.30
118. 12" Gate Valve & Well	4 ea	\$4,000.00	\$16,000.00	\$3,280.47	\$13,121.88	\$3,320.00	\$13,280.00	\$2,831.60	\$11,326.40
119. 16" Gate Valve & Well	15 ea	\$4,800.00	\$72,000.00	\$5,308.03	\$79,620.45	\$7,550.00	\$113,250.00	\$3,347.00	\$50,205.00
120. 4" D.I.W.M., CI-54, TR G w/Polywrap	37 lft	\$48.00	\$1,776.00	\$47.73	\$1,766.01	\$60.00	\$2,220.00	\$49.70	\$1,838.90
121. 6" D.I.W.M., CI-54, TR G w/Polywrap	65 lft	\$50.00	\$3,250.00	\$48.73	\$3,167.45	\$82.00	\$5,330.00	\$50.55	\$3,285.75

ENGINEER'S ESTIMATE

Six-S, Inc.
2210 Scott Lake Road
Waterford, MI 48328

Angelo Iafrate Construction
26300 Sherwood
Warren, MI 48091

Pamar Enterprises, Inc.
58021 Gratiot Avenue
New Haven, MI 48048

Item	Quantity	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
122. 8" D.I.W.M., CI-54, TR G w/Polywrap	179 lft	\$54.00	\$9,666.00	\$53.25	\$9,531.75	\$72.00	\$12,888.00	\$55.55	\$9,943.45
123. 12" D.I.W.M., CI-54, TR G w/Polywrap	239 lft	\$62.00	\$14,818.00	\$66.56	\$15,907.84	\$95.00	\$22,705.00	\$69.30	\$16,562.70
124. 16" D.I.W.M., CI-54, TR G w/Polywrap	4,741 lft	\$76.00	\$360,316.00	\$83.39	\$395,351.99	\$79.80	\$378,331.80	\$78.40	\$371,694.40
125. Water, Dust Control (1,000 gallon units)	540 unit	\$8.00	\$4,320.00	\$9.99	\$5,394.60	\$10.00	\$5,400.00	\$160.20	\$86,508.00
126. Field Office	14 mo	\$1,200.00	\$16,800.00	\$1,001.05	\$14,014.70	\$1,000.00	\$14,000.00	\$1,074.00	\$15,036.00
127. Color Audio/Video Route Survey	1 LS	\$2,000.00	\$2,000.00	\$1,883.88	\$1,883.88	\$3,000.00	\$3,000.00	\$1,935.00	\$1,935.00
128. Inspection Crew Days	\$480 day	280	\$134,400.00	245	\$117,600.00	150	\$72,000.00	258	\$123,840.00
TOTAL AMOUNT OF BID			\$3,659,812.10		\$3,283,950.42		\$3,387,347.55 *		\$3,452,971.72 *

* Corrected By Engineer
Additional Bidders:

Tyger Excavating, Inc.	\$3,573,263.25 *
Major Cement Co.	\$3,595,594.98 *
John Carlo, Inc.	\$3,618,836.53
DiLisio Contracting Inc.	\$3,702,419.74
Florence Cement Co.	\$3,764,737.83
Dalessandro Contracting	\$3,953,600.00

ENGINEER:

Hubbell, Roth & Clark, Inc.
555 Hulet Drive
P.O. Box 824
Bloomfield Hills, MI 48083-0824