

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		*1. Workman Industrial		2. Stanley Miller Const.		3. Wolf Creek Engineering	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$10,000.00	\$10,000.00	\$11,720.00	\$11,720.00	\$9,410.00	\$9,410.00	\$8,000.00	\$8,000.00
2	202	Structures removed	1	L.S.	\$50,000.00	\$50,000.00	\$8,195.00	\$8,195.00	\$15,622.00	\$15,622.00	\$50,000.00	\$50,000.00
3	202	Guardrail removed	110	L.F.	\$3.00	\$330.00	\$3.00	\$330.00	\$2.00	\$220.00	\$1.00	\$110.00
4	202	Water Mains removed	170	L.F.	\$15.00	\$2,550.00	\$10.00	\$1,700.00	\$11.00	\$1,870.00	\$6.00	\$1,020.00
5	202	Valve removed	4	EACH	\$150.00	\$600.00	\$55.00	\$220.00	\$100.00	\$400.00	\$100.00	\$400.00
6	202	Bleeder valve removed	1	EACH	\$150.00	\$150.00	\$55.00	\$55.00	\$115.00	\$115.00	\$100.00	\$100.00
7	202	Pipe removed, 12"	140	L.F.	\$10.00	\$1,400.00	\$6.00	\$840.00	\$15.00	\$2,100.00	\$35.00	\$4,900.00
8	202	Catch basin or Inlet removed	6	EACH	\$200.00	\$1,200.00	\$50.00	\$300.00	\$100.00	\$600.00	\$170.00	\$1,020.00
9	202	Tree removed, 18"	8	EACH	\$600.00	\$4,800.00	\$345.00	\$2,760.00	\$156.00	\$1,248.00	\$535.00	\$4,280.00
10	202	Tree removed, 30"	1	EACH	\$1,200.00	\$1,200.00	\$710.00	\$710.00	\$945.00	\$945.00	\$1,000.00	\$1,000.00
11	203	Excavation including Embankment Construction	825	C.Y.	\$25.00	\$20,625.00	\$11.00	\$9,075.00	\$33.00	\$27,225.00	\$17.40	\$14,355.00
12	203	Aggregate Refill Type 1,	590	C.Y.	\$40.00	\$23,600.00	\$39.50	\$23,305.00	\$47.00	\$27,730.00	\$55.00	\$32,450.00
13	203	Borrow	100	C.Y.	\$15.00	\$1,500.00	\$22.00	\$2,200.00	\$30.00	\$3,000.00	\$10.00	\$1,000.00
14	207	Filter Fabric Fence	300	L.F.	\$4.00	\$1,200.00	\$2.00	\$600.00	\$2.00	\$600.00	\$2.00	\$600.00
15	254	8" Ductile Iron Pipe (Installation only)	180	L.F.	\$150.00	\$27,000.00	\$58.00	\$10,440.00	\$57.00	\$10,260.00	\$24.00	\$4,320.00
16	258	8" Valve	1	EACH	\$1,000.00	\$1,000.00	\$1,270.00	\$1,270.00	\$1,183.00	\$1,183.00	\$1,000.00	\$1,000.00
17	259	8" 45 degree bend	8	EACH	\$350.00	\$2,800.00	\$480.00	\$3,840.00	\$445.00	\$3,560.00	\$160.00	\$1,280.00
18	259	8" solid sleeve	3	EACH	\$350.00	\$1,050.00	\$475.00	\$1,425.00	\$440.00	\$1,320.00	\$160.00	\$480.00
19	259	Curb Meter Pit as Per Plan	1	EACH	\$2,000.00	\$2,000.00	\$2,600.00	\$2,600.00	\$2,761.00	\$2,761.00	\$2,000.00	\$2,000.00
20	261	Polyethylene encasement, 8" pipe	180	L.F.	\$1.50	\$270.00	\$1.00	\$180.00	\$1.00	\$180.00	\$1.00	\$180.00
21	263	Tying into 8" main	3	EACH	\$1,200.00	\$3,600.00	\$1,900.00	\$5,700.00	\$100.00	\$300.00	\$1,000.00	\$3,000.00
22	264	18 inch Steel Casing Pipe (0.375" Min Wall)	50	L.F.	\$250.00	\$12,500.00	\$305.00	\$15,250.00	\$108.00	\$5,400.00	\$165.00	\$8,250.00
23	265	Water Main Valve Boxes Adjusted	2	EACH	\$300.00	\$600.00	\$55.00	\$110.00	\$55.00	\$110.00	\$150.00	\$300.00
24	301	7-3/4 inch Bituminous aggregate base	400	C.Y.	\$105.00	\$42,000.00	\$120.00	\$48,000.00	\$149.00	\$59,600.00	\$105.00	\$42,000.00
25	407	Tack Coat	185	GAL	\$2.00	\$370.00	\$5.00	\$925.00	\$2.00	\$370.00	\$1.75	\$323.75
26	407	Tack Coat for Intermediate Course	185	GAL	\$2.00	\$370.00	\$5.00	\$925.00	\$2.00	\$370.00	\$1.75	\$323.75
27	448	Asphalt Concrete Intermediate Course, Type 2 Medium, PG64-22, 3 inch thick	150	C.Y.	\$130.00	\$19,500.00	\$106.80	\$16,020.00	\$132.00	\$19,800.00	\$118.00	\$17,700.00
28	448	Asphalt Concrete Surface Course, Type 1 Medium, PG64-22, 1-1/4 inch thick	65	C.Y.	\$160.00	\$10,400.00	\$193.00	\$12,545.00	\$195.00	\$12,675.00	\$175.00	\$11,375.00
29	455	Curb, 6"x18"	920	L.F.	\$15.00	\$13,800.00	\$15.75	\$14,490.00	\$15.00	\$13,800.00	\$16.90	\$15,548.00
30	455	Combination curb and gutter	30	L.F.	\$25.00	\$750.00	\$79.00	\$2,370.00	\$15.00	\$450.00	\$36.00	\$1,080.00
31	456	Concrete Walk, 4 inches thick	1600	S.F.	\$5.00	\$8,000.00	\$3.83	\$6,128.00	\$4.85	\$7,760.00	\$3.90	\$6,240.00
32	456	Concrete Walk, 6 inches thick	3700	S.F.	\$6.00	\$22,200.00	\$3.62	\$13,394.00	\$5.52	\$20,424.00	\$4.40	\$16,280.00
33	456	Concrete Housewalk, 4 inches thick	60	S.F.	\$5.00	\$300.00	\$14.00	\$840.00	\$4.85	\$291.00	\$3.20	\$192.00
34	456	Concrete Steps	20	L.F.	\$35.00	\$700.00	\$44.00	\$880.00	\$44.00	\$880.00	\$92.00	\$1,840.00
35	456	Concrete Driveway Reconstruction, 6 inches thick	200	S.F.	\$6.50	\$1,300.00	\$14.28	\$2,856.00	\$5.52	\$1,104.00	\$6.45	\$1,290.00
36	456	Concrete Aprons, 6 inches thick	1250	S.F.	\$6.50	\$8,125.00	\$5.90	\$7,375.00	\$5.52	\$6,900.00	\$4.60	\$5,750.00
37	456	Curb Ramps	6	EACH	\$300.00	\$1,800.00	\$8.75	\$52.50	\$390.00	\$2,340.00	\$675.00	\$4,050.00
38	503	Unclassified excavation including rock and/or shale	150	C.Y.	\$150.00	\$22,500.00	\$19.00	\$2,850.00	\$10.00	\$1,500.00	\$4.00	\$6,000.00
39	503	Cofferdams, Cribs, and Sheeting Railing, Tube Steel, in accordance w/ODOT BR-2-98 and 707.10	1	L.S.	\$125,000.00	\$125,000.00	\$25,900.00	\$25,900.00	\$23,722.00	\$23,722.00	\$35,000.00	\$35,000.00
40	517	36 inch RCP Storm Sewer, Type A, Class "B"	70	L.F.	\$45.00	\$3,150.00	\$70.00	\$4,900.00	\$75.00	\$5,250.00	\$360.00	\$25,200.00
41	552	Bedding 42 inch RCP Storm Sewer, Type A, Class "B"	23	L.F.	\$140.00	\$3,220.00	\$253.00	\$5,819.00	\$144.00	\$3,312.00	\$150.00	\$3,450.00
42	552	Bedding	32	L.F.	\$150.00	\$4,800.00	\$265.00	\$8,480.00	\$208.00	\$6,656.00	\$160.00	\$5,120.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		*1. Workman Industrial		2. Stanley Miller Const.		3. Wolf Creek Engineering	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
43	553	12 inch VCP Xtra Str. inlet connections, 706.08 w/ 706.12, Class "B" Bedding	10	L.F.	\$50.00	\$500.00	\$110.00	\$1,100.00	\$100.00	\$1,000.00	\$76.00	\$760.00
44	553	12 inch RCP inlet connections, 706.02 w/ 706.11, Class "B" Bedding	140	L.F.	\$50.00	\$7,000.00	\$82.00	\$11,480.00	\$57.64	\$8,069.60	\$85.00	\$11,900.00
45	562	Manhole 2C Slab Top on 36" Storm Sewer	1	EACH	\$4,000.00	\$4,000.00	\$5,370.00	\$5,370.00	\$2,179.00	\$2,179.00	\$3,200.00	\$3,200.00
46	562	Manhole 3A Slab Top on 42" Storm Sewer	1	EACH	\$5,000.00	\$5,000.00	\$6,250.00	\$6,250.00	\$2,990.00	\$2,990.00	\$4,000.00	\$4,000.00
47	562	Manhole Adjust Inlet, Double No. 5 Modified (Casting supplied by City)	5	EACH	\$300.00	\$1,500.00	\$429.00	\$2,145.00	\$115.00	\$575.00	\$150.00	\$750.00
48	563	Inlet, No. 5 (Casting supplied by City)	1	EACH	\$1,600.00	\$1,600.00	\$578.00	\$578.00	\$485.00	\$485.00	\$1,700.00	\$1,700.00
49	563	Inlet, No. 5 (Casting supplied by City)	5	EACH	\$1,100.00	\$5,500.00	\$407.00	\$2,035.00	\$361.00	\$1,805.00	\$800.00	\$4,000.00
50	564	4" Pipe Underdrains, 707.15	950	L.F.	\$10.00	\$9,500.00	\$10.00	\$9,500.00	\$8.30	\$7,885.00	\$8.00	\$7,600.00
51	601	Rock Channel Protection, Type A, Grouted	125	C.Y.	\$125.00	\$15,625.00	\$158.00	\$19,750.00	\$151.00	\$18,875.00	\$71.00	\$8,875.00
52	601	Rock Channel Protection, Type C, Grouted	115	C.Y.	\$125.00	\$14,375.00	\$154.00	\$17,710.00	\$146.00	\$16,790.00	\$68.00	\$7,820.00
53	602	Concrete Masonry	3	C.Y.	\$125.00	\$375.00	\$348.00	\$1,044.00	\$330.00	\$990.00	\$260.00	\$780.00
54	603	Limestone	50	C.Y.	\$25.00	\$1,250.00	\$38.00	\$1,900.00	\$56.00	\$2,800.00	\$40.00	\$2,000.00
55	604	Bankrun Gravel	100	C.Y.	\$15.00	\$1,500.00	\$16.00	\$1,600.00	\$34.00	\$3,400.00	\$10.00	\$1,000.00
56	606	Guardrail, Type 5A	100	L.F.	\$30.00	\$3,000.00	\$33.18	\$3,318.00	\$28.00	\$2,800.00	\$31.60	\$3,160.00
57	606	Bridge Terminal Assembly, Type 1	4	EACH	\$1,500.00	\$6,000.00	\$1,560.00	\$6,240.00	\$1,389.00	\$5,556.00	\$1,485.00	\$5,940.00
58	609	Engineering Geogrid for Roadway, Type BX 1200	1700	S.Y.	\$7.00	\$11,900.00	\$6.50	\$11,050.00	\$4.84	\$8,228.00	\$5.00	\$8,500.00
59	614	Maintaining Traffic	1	L.S.	\$20,000.00	\$20,000.00	\$2,940.00	\$2,940.00	\$3,944.00	\$3,944.00	\$5,000.00	\$5,000.00
60	618	Computer Equipment	1	allowan	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
61	619	Field Office	1	L.S.	\$3,500.00	\$3,500.00	\$5,000.00	\$5,000.00	\$5,055.00	\$5,055.00	\$4,800.00	\$4,800.00
62	622	Monument Boxes (Casting supplied by City)	2	EACH	\$500.00	\$1,000.00	\$890.00	\$1,780.00	\$224.00	\$448.00	\$300.00	\$600.00
63	623	Construction Layout Stakes	1	L.S.	\$10,000.00	\$10,000.00	\$2,640.00	\$2,640.00	\$9,389.00	\$9,389.00	\$10,000.00	\$10,000.00
64	624	Mobilization	1	L.S.	\$20,000.00	\$20,000.00	\$3,150.00	\$3,150.00	\$23,222.00	\$23,222.00	\$16,500.00	\$16,500.00
65	625	Trench in Unpaved Areas	305	L.F.	\$10.00	\$3,050.00	\$16.00	\$4,880.00	\$8.38	\$2,555.90	\$16.00	\$4,880.00
66	625	Trench in Paved Areas	60	L.F.	\$20.00	\$1,200.00	\$16.00	\$960.00	\$19.50	\$1,170.00	\$73.00	\$4,380.00
67	625	Conduit, 2" Schedule 40 PVC (Street Light)	365	L.F.	\$3.00	\$1,095.00	\$14.00	\$5,110.00	\$4.20	\$1,533.00	\$8.00	\$2,920.00
68	625	Pull Box, (Street Light) 13" x 24"	4	EACH	\$400.00	\$1,600.00	\$315.00	\$1,260.00	\$534.00	\$2,136.00	\$842.50	\$3,370.00
69	629	Street Name Sign Assembly	2	EACH	\$350.00	\$700.00	\$195.00	\$390.00	\$180.00	\$360.00	\$500.00	\$1,000.00
70	630	Traffic Sign, Type A	2	EACH	\$100.00	\$200.00	\$175.00	\$350.00	\$160.00	\$320.00	\$175.00	\$350.00
71	630	Traffic Sign, Type B	2	EACH	\$150.00	\$300.00	\$205.00	\$410.00	\$190.00	\$380.00	\$125.00	\$250.00
72	653	Topsoil, furnished and placed 4" thick	1300	S.Y.	\$4.00	\$5,200.00	\$3.78	\$4,914.00	\$3.34	\$4,342.00	\$3.60	\$4,680.00
73	654	Lawn Renovation with Seeding	300	S.Y.	\$5.00	\$1,500.00	\$4.20	\$1,260.00	\$1.12	\$336.00	\$4.00	\$1,200.00
74	654	Seeding and Excelsior Matting	300	S.Y.	\$8.00	\$2,400.00	\$3.15	\$945.00	\$3.06	\$918.00	\$3.00	\$900.00
75	659	Lawn Seeding and Mulching	1000	S.Y.	\$4.00	\$4,000.00	\$1.35	\$1,350.00	\$1.12	\$1,120.00	\$1.25	\$1,250.00
76	663	Tree Planting in Lawn Area	7	EACH	\$325.00	\$2,275.00	\$475.00	\$3,325.00	\$417.00	\$2,919.00	\$450.00	\$3,150.00
77	669	Protecting Trees	1	L.S.	\$300.00	\$300.00	\$1,150.00	\$1,150.00	\$1,000.00	\$1,000.00	\$100.00	\$100.00
78	SPEC	Modular Precast Bridge System (CON-SPAN)	1	L.S.	\$360,000.00	\$360,000.00	\$269,000.00	\$269,000.00	\$241,730.00	\$241,730.00	\$294,000.00	\$294,000.00

TOTAL CONSTRUCTION COSTS \$989,205.00 \$693,458.50 \$694,668.50 \$774,122.50

+/- ENGINEER'S ESTIMATE -29.9% -29.8% -21.7%

\* Ref. #37 extended amount incorrect in bid book, Unoffical Construction Cost incorrect in bid book

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Lockhart Concrete		5. Independence Excavating		6. Kenmore Construction	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$10,000.00	\$10,000.00	\$25,000.00	\$25,000.00	\$6,000.00	\$6,000.00	\$5,000.00	\$5,000.00
2	202	Structures removed	1	L.S.	\$50,000.00	\$50,000.00	\$27,000.00	\$27,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
3	202	Guardrail removed	110	L.F.	\$3.00	\$330.00	\$1.00	\$110.00	\$12.00	\$1,320.00	\$2.00	\$220.00
4	202	Water Mains removed	170	L.F.	\$15.00	\$2,550.00	\$1.00	\$170.00	\$25.00	\$4,250.00	\$5.00	\$850.00
5	202	Valve removed	4	EACH	\$150.00	\$600.00	\$25.00	\$100.00	\$400.00	\$1,600.00	\$100.00	\$400.00
6	202	Bleeder valve removed	1	EACH	\$150.00	\$150.00	\$25.00	\$25.00	\$1,250.00	\$1,250.00	\$100.00	\$100.00
7	202	Pipe removed, 12"	140	L.F.	\$10.00	\$1,400.00	\$1.00	\$140.00	\$22.00	\$3,080.00	\$10.00	\$1,400.00
8	202	Catch basin or Inlet removed	6	EACH	\$200.00	\$1,200.00	\$10.00	\$60.00	\$350.00	\$2,100.00	\$100.00	\$600.00
9	202	Tree removed, 18"	8	EACH	\$600.00	\$4,800.00	\$250.00	\$2,000.00	\$147.00	\$1,176.00	\$150.00	\$1,200.00
10	202	Tree removed, 30"	1	EACH	\$1,200.00	\$1,200.00	\$800.00	\$800.00	\$1,200.00	\$1,200.00	\$800.00	\$800.00
11	203	Excavation including Embankment Construction	825	C.Y.	\$25.00	\$20,625.00	\$6.00	\$4,950.00	\$28.00	\$23,100.00	\$17.00	\$14,025.00
12	203	Aggregate Refill Type 1,	590	C.Y.	\$40.00	\$23,600.00	\$30.00	\$17,700.00	\$45.00	\$26,550.00	\$36.00	\$21,240.00
13	203	Borrow	100	C.Y.	\$15.00	\$1,500.00	\$10.00	\$1,000.00	\$12.00	\$1,200.00	\$3.00	\$300.00
14	207	Filter Fabric Fence	300	L.F.	\$4.00	\$1,200.00	\$1.00	\$300.00	\$8.50	\$2,550.00	\$1.25	\$375.00
15	254	8" Ductile Iron Pipe (Installation only)	180	L.F.	\$150.00	\$27,000.00	\$40.00	\$7,200.00	\$150.00	\$27,000.00	\$85.00	\$15,300.00
16	258	8" Valve	1	EACH	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$950.00	\$950.00	\$900.00	\$900.00
17	259	8" 45 degree bend	8	EACH	\$350.00	\$2,800.00	\$200.00	\$1,600.00	\$170.00	\$1,360.00	\$200.00	\$1,600.00
18	259	8" solid sleeve	3	EACH	\$350.00	\$1,050.00	\$200.00	\$600.00	\$130.00	\$390.00	\$200.00	\$600.00
19	259	Curb Meter Pit as Per Plan	1	EACH	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$4,500.00	\$4,500.00	\$1,300.00	\$1,300.00
20	261	Polyethylene encasement, 8" pipe	180	L.F.	\$1.50	\$270.00	\$1.00	\$180.00	\$0.50	\$90.00	\$0.50	\$90.00
21	263	Tying into 8" main	3	EACH	\$1,200.00	\$3,600.00	\$500.00	\$1,500.00	\$1,500.00	\$4,500.00	\$500.00	\$1,500.00
22	264	18 inch Steel Casing Pipe (0.375" Min Wall)	50	L.F.	\$250.00	\$12,500.00	\$45.00	\$2,250.00	\$45.00	\$2,250.00	\$200.00	\$10,000.00
23	265	Water Main Valve Boxes Adjusted	2	EACH	\$300.00	\$600.00	\$50.00	\$100.00	\$800.00	\$1,600.00	\$150.00	\$300.00
24	301	7-3/4 inch Bituminous aggregate base	400	C.Y.	\$105.00	\$42,000.00	\$130.00	\$52,000.00	\$134.00	\$53,600.00	\$120.00	\$48,000.00
25	407	Tack Coat	185	GAL	\$2.00	\$370.00	\$2.00	\$370.00	\$3.15	\$582.75	\$3.00	\$555.00
26	407	Tack Coat for Intermediate Course	185	GAL	\$2.00	\$370.00	\$2.00	\$370.00	\$3.15	\$582.75	\$3.00	\$555.00
27	448	Asphalt Concrete Intermediate Course, Type 2 Medium, PG64-22, 3 inch thick	150	C.Y.	\$130.00	\$19,500.00	\$145.00	\$21,750.00	\$148.00	\$22,200.00	\$130.00	\$19,500.00
28	448	Asphalt Concrete Surface Course, Type 1 Medium, PG64-22, 1-1/4 inch thick	65	C.Y.	\$160.00	\$10,400.00	\$185.00	\$12,025.00	\$190.00	\$12,350.00	\$150.00	\$9,750.00
29	455	Curb, 6"x18"	920	L.F.	\$15.00	\$13,800.00	\$14.00	\$12,880.00	\$10.00	\$9,200.00	\$15.00	\$13,800.00
30	455	Combination curb and gutter	30	L.F.	\$25.00	\$750.00	\$20.00	\$600.00	\$25.00	\$750.00	\$20.00	\$600.00
31	456	Concrete Walk, 4 inches thick	1600	S.F.	\$5.00	\$8,000.00	\$5.00	\$8,000.00	\$4.00	\$6,400.00	\$4.00	\$6,400.00
32	456	Concrete Walk, 6 inches thick	3700	S.F.	\$6.00	\$22,200.00	\$6.00	\$22,200.00	\$4.45	\$16,465.00	\$4.25	\$15,725.00
33	456	Concrete Housewalk, 4 inches thick	60	S.F.	\$5.00	\$300.00	\$5.00	\$300.00	\$4.00	\$240.00	\$8.00	\$480.00
34	456	Concrete Steps	20	L.F.	\$35.00	\$700.00	\$50.00	\$1,000.00	\$63.00	\$1,260.00	\$60.00	\$1,200.00
35	456	Concrete Driveway Reconstruction, 6 inches thick	200	S.F.	\$6.50	\$1,300.00	\$6.00	\$1,200.00	\$4.15	\$830.00	\$5.00	\$1,000.00
36	456	Concrete Aprons, 6 inches thick	1250	S.F.	\$6.50	\$8,125.00	\$6.00	\$7,500.00	\$4.15	\$5,187.50	\$4.25	\$5,312.50
37	456	Curb Ramps	6	EACH	\$300.00	\$1,800.00	\$300.00	\$1,800.00	\$315.00	\$1,890.00	\$800.00	\$4,800.00
38	503	Unclassified excavation including rock and/or shale	150	C.Y.	\$150.00	\$22,500.00	\$10.00	\$1,500.00	\$19.00	\$2,850.00	\$25.00	\$3,750.00
39	503	Cofferdams, Cribs, and Sheeting Railing, Tube Steel, in accordance w/ODOT BR-2-98 and 707.10	1	L.S.	\$125,000.00	\$125,000.00	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
40	517	36 inch RCP Storm Sewer, Type A, Class "B"	70	L.F.	\$45.00	\$3,150.00	\$66.00	\$4,620.00	\$69.83	\$4,888.10	\$200.00	\$14,000.00
41	552	Bedding 42 inch RCP Storm Sewer, Type A, Class "B"	23	L.F.	\$140.00	\$3,220.00	\$160.00	\$3,680.00	\$140.00	\$3,220.00	\$110.00	\$2,530.00
42	552	Bedding	32	L.F.	\$150.00	\$4,800.00	\$180.00	\$5,760.00	\$185.00	\$5,920.00	\$150.00	\$4,800.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Lockhart Concrete		5. Independence Excavating		6. Kenmore Construction	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
43	553	12 inch VCP Xtra Str. inlet connections, 706.08 w/ 706.12, Class "B" Bedding	10	L.F.	\$50.00	\$500.00	\$50.00	\$500.00	\$90.00	\$900.00	\$60.00	\$600.00
44	553	12 inch RCP inlet connections, 706.02 w/ 706.11, Class "B" Bedding	140	L.F.	\$50.00	\$7,000.00	\$50.00	\$7,000.00	\$50.00	\$7,000.00	\$40.00	\$5,600.00
45	562	Manhole 2C Slab Top on 36" Storm Sewer	1	EACH	\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00	\$4,400.00	\$4,400.00	\$2,200.00	\$2,200.00
46	562	Manhole 3A Slab Top on 42" Storm Sewer	1	EACH	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$5,400.00	\$5,400.00	\$3,000.00	\$3,000.00
47	562	Manhole Adjust Inlet, Double No. 5 Modified (Casting supplied by City)	5	EACH	\$300.00	\$1,500.00	\$250.00	\$1,250.00	\$500.00	\$2,500.00	\$400.00	\$2,000.00
48	563	Inlet, No. 5 (Casting supplied by City)	1	EACH	\$1,600.00	\$1,600.00	\$900.00	\$900.00	\$1,275.00	\$1,275.00	\$1,000.00	\$1,000.00
49	563	Inlet, No. 5 (Casting supplied by City)	5	EACH	\$1,100.00	\$5,500.00	\$800.00	\$4,000.00	\$1,250.00	\$6,250.00	\$1,000.00	\$5,000.00
50	564	4" Pipe Underdrains, 707.15	950	L.F.	\$10.00	\$9,500.00	\$6.50	\$6,175.00	\$12.00	\$11,400.00	\$7.00	\$6,650.00
51	601	Rock Channel Protection, Type A, Grouted	125	C.Y.	\$125.00	\$15,625.00	\$75.00	\$9,375.00	\$140.00	\$17,500.00	\$65.00	\$8,125.00
52	601	Rock Channel Protection, Type C, Grouted	115	C.Y.	\$125.00	\$14,375.00	\$85.00	\$9,775.00	\$137.00	\$15,755.00	\$80.00	\$9,200.00
53	602	Concrete Masonry	3	C.Y.	\$125.00	\$375.00	\$600.00	\$1,800.00	\$800.00	\$2,400.00	\$250.00	\$750.00
54	603	Limestone	50	C.Y.	\$25.00	\$1,250.00	\$30.00	\$1,500.00	\$45.00	\$2,250.00	\$1.00	\$50.00
55	604	Bankrun Gravel	100	C.Y.	\$15.00	\$1,500.00	\$10.00	\$1,000.00	\$35.00	\$3,500.00	\$0.01	\$1.00
56	606	Guardrail, Type 5A	100	L.F.	\$30.00	\$3,000.00	\$30.50	\$3,050.00	\$33.18	\$3,318.00	\$25.00	\$2,500.00
57	606	Bridge Terminal Assembly, Type 1	4	EACH	\$1,500.00	\$6,000.00	\$1,475.00	\$5,900.00	\$1,559.25	\$6,237.00	\$1,100.00	\$4,400.00
58	609	Engineering Geogrid for Roadway, Type BX 1200	1700	S.Y.	\$7.00	\$11,900.00	\$7.00	\$11,900.00	\$5.00	\$8,500.00	\$6.50	\$11,050.00
59	614	Maintaining Traffic	1	L.S.	\$20,000.00	\$20,000.00	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00
60	618	Computer Equipment	1	allowan	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
61	619	Field Office	1	L.S.	\$3,500.00	\$3,500.00	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00
62	622	Monument Boxes (Casting supplied by City)	2	EACH	\$500.00	\$1,000.00	\$100.00	\$200.00	\$500.00	\$1,000.00	\$500.00	\$1,000.00
63	623	Construction Layout Stakes	1	L.S.	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00
64	624	Mobilization	1	L.S.	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00
65	625	Trench in Unpaved Areas	305	L.F.	\$10.00	\$3,050.00	\$5.00	\$1,525.00	\$8.55	\$2,607.75	\$8.00	\$2,440.00
66	625	Trench in Paved Areas	60	L.F.	\$20.00	\$1,200.00	\$6.00	\$360.00	\$15.00	\$900.00	\$16.00	\$960.00
67	625	Conduit, 2" Schedule 40 PVC (Street Light)	365	L.F.	\$3.00	\$1,095.00	\$2.00	\$730.00	\$9.00	\$3,285.00	\$2.50	\$912.50
68	625	Pull Box, (Street Light) 13" x 24"	4	EACH	\$400.00	\$1,600.00	\$350.00	\$1,400.00	\$600.00	\$2,400.00	\$425.00	\$1,700.00
69	629	Street Name Sign Assembly	2	EACH	\$350.00	\$700.00	\$182.50	\$365.00	\$194.25	\$388.50	\$200.00	\$400.00
70	630	Traffic Sign, Type A	2	EACH	\$100.00	\$200.00	\$172.00	\$344.00	\$173.25	\$346.50	\$150.00	\$300.00
71	630	Traffic Sign, Type B	2	EACH	\$150.00	\$300.00	\$121.00	\$242.00	\$204.75	\$409.50	\$150.00	\$300.00
72	653	Topsoil, furnished and placed 4" thick	1300	S.Y.	\$4.00	\$5,200.00	\$2.00	\$2,600.00	\$3.15	\$4,095.00	\$2.50	\$3,250.00
73	654	Lawn Renovation with Seeding	300	S.Y.	\$5.00	\$1,500.00	\$1.00	\$300.00	\$1.05	\$315.00	\$1.00	\$300.00
74	654	Seeding and Excelsior Matting	300	S.Y.	\$8.00	\$2,400.00	\$2.50	\$750.00	\$2.75	\$825.00	\$3.00	\$900.00
75	659	Lawn Seeding and Mulching	1000	S.Y.	\$4.00	\$4,000.00	\$1.00	\$1,000.00	\$1.05	\$1,050.00	\$1.00	\$1,000.00
76	663	Tree Planting in Lawn Area	7	EACH	\$325.00	\$2,275.00	\$370.00	\$2,590.00	\$393.75	\$2,756.25	\$300.00	\$2,100.00
77	669	Protecting Trees	1	L.S.	\$300.00	\$300.00	\$500.00	\$500.00	\$525.00	\$525.00	\$100.00	\$100.00
78	SPEC	Modular Precast Bridge System (CON-SPAN)	1	L.S.	\$360,000.00	\$360,000.00	\$388,129.00	\$388,129.00	\$321,552.00	\$321,552.00	\$436,000.00	\$436,000.00

TOTAL CONSTRUCTION COSTS \$989,205.00 \$775,000.00 \$798,972.60 \$832,146.00

+/- ENGINEER'S ESTIMATE -21.7% -19.2% -15.9%

\* Ref. #37 extended amount incorrect in bid book, Unoffical Construction Cost incorrect in bid book

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		7. Liberta Construction	
					PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
2	202	Structures removed	1	L.S.	\$50,000.00	\$50,000.00	\$50,163.00	\$50,163.00
3	202	Guardrail removed	110	L.F.	\$3.00	\$330.00	\$7.00	\$770.00
4	202	Water Mains removed	170	L.F.	\$15.00	\$2,550.00	\$15.00	\$2,550.00
5	202	Valve removed	4	EACH	\$150.00	\$600.00	\$150.00	\$600.00
6	202	Bleeder valve removed	1	EACH	\$150.00	\$150.00	\$195.00	\$195.00
7	202	Pipe removed, 12"	140	L.F.	\$10.00	\$1,400.00	\$6.00	\$840.00
8	202	Catch basin or Inlet removed	6	EACH	\$200.00	\$1,200.00	\$80.00	\$480.00
9	202	Tree removed, 18"	8	EACH	\$600.00	\$4,800.00	\$350.00	\$2,800.00
10	202	Tree removed, 30"	1	EACH	\$1,200.00	\$1,200.00	\$775.00	\$775.00
11	203	Excavation including Embankment Construction	825	C.Y.	\$25.00	\$20,625.00	\$13.00	\$10,725.00
12	203	Aggregate Refill Type 1,	590	C.Y.	\$40.00	\$23,600.00	\$37.00	\$21,830.00
13	203	Borrow	100	C.Y.	\$15.00	\$1,500.00	\$10.00	\$1,000.00
14	207	Filter Fabric Fence	300	L.F.	\$4.00	\$1,200.00	\$3.00	\$900.00
15	254	8" Ductile Iron Pipe (Installation only)	180	L.F.	\$150.00	\$27,000.00	\$38.00	\$6,840.00
16	258	8" Valve	1	EACH	\$1,000.00	\$1,000.00	\$1,250.00	\$1,250.00
17	259	8" 45 degree bend	8	EACH	\$350.00	\$2,800.00	\$285.00	\$2,280.00
18	259	8" solid sleeve	3	EACH	\$350.00	\$1,050.00	\$250.00	\$750.00
19	259	Curb Meter Pit as Per Plan	1	EACH	\$2,000.00	\$2,000.00	\$1,950.00	\$1,950.00
20	261	Polyethylene encasement, 8" pipe	180	L.F.	\$1.50	\$270.00	\$1.50	\$270.00
21	263	Tying into 8" main	3	EACH	\$1,200.00	\$3,600.00	\$750.00	\$2,250.00
22	264	18 inch Steel Casing Pipe (0.375" Min Wall)	50	L.F.	\$250.00	\$12,500.00	\$240.00	\$12,000.00
23	265	Water Main Valve Boxes Adjusted	2	EACH	\$300.00	\$600.00	\$75.00	\$150.00
24	301	7-3/4 inch Bituminous aggregate base	400	C.Y.	\$105.00	\$42,000.00	\$116.00	\$46,400.00
25	407	Tack Coat	185	GAL	\$2.00	\$370.00	\$3.15	\$582.75
26	407	Tack Coat for Intermediate Course	185	GAL	\$2.00	\$370.00	\$3.15	\$582.75
27	448	Asphalt Concrete Intermediate Course, Type 2 Medium, PG64-22, 3 inch thick	150	C.Y.	\$130.00	\$19,500.00	\$133.00	\$19,950.00
28	448	Asphalt Concrete Surface Course, Type 1 Medium, PG64-22, 1-1/4 inch thick	65	C.Y.	\$160.00	\$10,400.00	\$194.00	\$12,610.00
29	455	Curb, 6"x18"	920	L.F.	\$15.00	\$13,800.00	\$14.25	\$13,110.00
30	455	Combination curb and gutter	30	L.F.	\$25.00	\$750.00	\$21.00	\$630.00
31	456	Concrete Walk, 4 inches thick	1600	S.F.	\$5.00	\$8,000.00	\$4.00	\$6,400.00
32	456	Concrete Walk, 6 inches thick	3700	S.F.	\$6.00	\$22,200.00	\$4.50	\$16,650.00
33	456	Concrete Housewalk, 4 inches thick	60	S.F.	\$5.00	\$300.00	\$15.50	\$930.00
34	456	Concrete Steps	20	L.F.	\$35.00	\$700.00	\$49.00	\$980.00
35	456	Concrete Driveway Reconstruction, 6 inches thick	200	S.F.	\$6.50	\$1,300.00	\$4.50	\$900.00
36	456	Concrete Aprons, 6 inches thick	1250	S.F.	\$6.50	\$8,125.00	\$4.50	\$5,625.00
37	456	Curb Ramps	6	EACH	\$300.00	\$1,800.00	\$225.00	\$1,350.00
38	503	Unclassified excavation including rock and/or shale	150	C.Y.	\$150.00	\$22,500.00	\$103.00	\$15,450.00
39	503	Cofferdams, Cribs, and Sheeting Railing, Tube Steel, in accordance w/ODOT BR-2-98 and 707.10	1	L.S.	\$125,000.00	\$125,000.00	\$95,000.00	\$95,000.00
40	517	36 inch RCP Storm Sewer, Type A, Class "B"	70	L.F.	\$45.00	\$3,150.00	\$78.00	\$5,460.00
41	552	Bedding 42 inch RCP Storm Sewer, Type A, Class "B"	23	L.F.	\$140.00	\$3,220.00	\$140.00	\$3,220.00
42	552	Bedding	<del>32</del>	L.F.	\$150.00	\$4,800.00	\$145.00	\$4,640.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S PRICE	ESTIMATE AMOUNT	7. Liberta Construction PRICE	AMOUNT
43	553	12 inch VCP Xtra Str. inlet connections, 706.08 w/ 706.12, Class "B" Bedding	10	L.F.	\$50.00	\$500.00	\$79.00	\$790.00
44	553	12 inch RCP inlet connections, 706.02 w/ 706.11, Class "B" Bedding	140	L.F.	\$50.00	\$7,000.00	\$60.00	\$8,400.00
45	562	Manhole 2C Slab Top on 36" Storm Sewer	1	EACH	\$4,000.00	\$4,000.00	\$2,000.00	\$2,000.00
46	562	Manhole 3A Slab Top on 42" Storm Sewer	1	EACH	\$5,000.00	\$5,000.00	\$2,800.00	\$2,800.00
47	562	Manhole Adjust Inlet, Double No. 5 Modified (Casting supplied by City)	5	EACH	\$300.00	\$1,500.00	\$250.00	\$1,250.00
48	563	Inlet, No. 5 (Casting supplied by City)	1	EACH	\$1,600.00	\$1,600.00	\$1,100.00	\$1,100.00
49	563	Inlet, No. 5 (Casting supplied by City)	5	EACH	\$1,100.00	\$5,500.00	\$825.00	\$4,125.00
50	564	4" Pipe Underdrains, 707.15	950	L.F.	\$10.00	\$9,500.00	\$7.00	\$6,650.00
51	601	Rock Channel Protection, Type A, Grouted	125	C.Y.	\$125.00	\$15,625.00	\$125.00	\$15,625.00
52	601	Rock Channel Protection, Type C, Grouted	115	C.Y.	\$125.00	\$14,375.00	\$90.00	\$10,350.00
53	602	Concrete Masonry	3	C.Y.	\$125.00	\$375.00	\$820.00	\$2,460.00
54	603	Limestone	50	C.Y.	\$25.00	\$1,250.00	\$38.00	\$1,900.00
55	604	Bankrun Gravel	100	C.Y.	\$15.00	\$1,500.00	\$12.00	\$1,200.00
56	606	Guardrail, Type 5A	100	L.F.	\$30.00	\$3,000.00	\$35.00	\$3,500.00
57	606	Bridge Terminal Assembly, Type 1	4	EACH	\$1,500.00	\$6,000.00	\$1,700.00	\$6,800.00
58	609	Engineering Geogrid for Roadway, Type BX 1200	1700	S.Y.	\$7.00	\$11,900.00	\$7.00	\$11,900.00
59	614	Maintaining Traffic	1	L.S.	\$20,000.00	\$20,000.00	\$13,700.00	\$13,700.00
60	618	Computer Equipment	1	allowan	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
61	619	Field Office	1	L.S.	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00
62	622	Monument Boxes (Casting supplied by City)	2	EACH	\$500.00	\$1,000.00	\$400.00	\$800.00
63	623	Construction Layout Stakes	1	L.S.	\$10,000.00	\$10,000.00	\$2,800.00	\$2,800.00
64	624	Mobilization	1	L.S.	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
65	625	Trench in Unpaved Areas	305	L.F.	\$10.00	\$3,050.00	\$16.80	\$5,124.00
66	625	Trench in Paved Areas	60	L.F.	\$20.00	\$1,200.00	\$78.00	\$4,680.00
67	625	Conduit, 2" Schedule 40 PVC (Street Light)	365	L.F.	\$3.00	\$1,095.00	\$8.40	\$3,066.00
68	625	Pull Box, (Street Light) 13" x 24"	4	EACH	\$400.00	\$1,600.00	\$884.00	\$3,536.00
69	629	Street Name Sign Assembly	2	EACH	\$350.00	\$700.00	\$250.00	\$500.00
70	630	Traffic Sign, Type A	2	EACH	\$100.00	\$200.00	\$184.00	\$368.00
71	630	Traffic Sign, Type B	2	EACH	\$150.00	\$300.00	\$231.50	\$463.00
72	653	Topsoil, furnished and placed 4" thick	1300	S.Y.	\$4.00	\$5,200.00	\$3.75	\$4,875.00
73	654	Lawn Renovation with Seeding	300	S.Y.	\$5.00	\$1,500.00	\$2.10	\$630.00
74	654	Seeding and Excelsior Matting	300	S.Y.	\$8.00	\$2,400.00	\$3.90	\$1,170.00
75	659	Lawn Seeding and Mulching	1000	S.Y.	\$4.00	\$4,000.00	\$2.03	\$2,030.00
76	663	Tree Planting in Lawn Area	7	EACH	\$325.00	\$2,275.00	\$393.00	\$2,751.00
77	669	Protecting Trees	1	L.S.	\$300.00	\$300.00	\$300.00	\$300.00
78	SPEC	Modular Precast Bridge System (CON-SPAN)	1	L.S.	\$360,000.00	\$360,000.00	\$340,979.00	\$340,979.00

TOTAL CONSTRUCTION COSTS \$989,205.00 \$877,960.50

+/- ENGINEER'S ESTIMATE -11.2%

\* Ref. #37 extended amount incorrect in bid book, Unoffical Construction Cost incorrect in bid book