

FY12 Water Main Epoxy Lining				1		2		3	
				Heitkamp, Inc.		J Fletcher Creamer & Sons		United Construction	
1	MECHANICALLY CLEAN AND LINE WATER MAIN PIPE WITH EPOXY LINING								
A	12-INCH PIPE	4,000	LF	\$8.00	\$32,000.00	\$ 26.00	\$104,000.00	\$ 28.00	\$112,000.00
B	8-INCH PIPE	10,000	LF	\$8.00	\$80,000.00	\$ 26.00	\$260,000.00	\$ 24.00	\$240,000.00
C	6-INCH PIPE	35,000	LF	\$8.00	\$280,000.00	\$ 25.00	\$875,000.00	\$ 16.00	\$560,000.00
D	4-INCH PIPE	250	LF	\$8.00	\$2,000.00	\$ 25.00	\$6,250.00	\$ 50.00	\$12,500.00
E	SHORT RUNS OF 75-FEET OR LESS - TO BE PAID IN ADDITION TO ITEM 1 A-D								
1	12-INCH PIPE	50	LF	\$12.00	\$600.00	\$ 6.00	\$300.00	\$ 30.00	\$1,500.00
2	8-INCH PIPE	100	LF	\$12.00	\$1,200.00	\$ 5.00	\$500.00	\$ 30.00	\$3,000.00
3	6-INCH PIPE	700	LF	\$12.00	\$8,400.00	\$ 6.00	\$4,200.00	\$ 30.00	\$21,000.00
4	4-INCH PIPE	10	LF	\$12.00	\$120.00	\$ 3.00	\$30.00	\$ 30.00	\$300.00
2	FURNISH/INSTALL TEMPORARY WATER SYSTEM, INCLUDING RP BACKFLOW PREVENTER								
A	3-INCH PIPE AND SMALLER	90,000	LF	\$6.45	\$580,500.00	\$ 2.50	\$225,000.00	\$ 6.00	\$540,000.00
B	4-INCH PIPE	15,000	LF	\$6.50	\$97,500.00	\$ 5.00	\$75,000.00	\$ 7.50	\$112,500.00
C	6-INCH PIPE	1,000	LF	\$7.00	\$7,000.00	\$ 15.00	\$15,000.00	\$ 8.50	\$8,500.00
3	PROVIDE ACCESS PITS								
A	STANDARD 5-FEET BY 7-FEET BY 5-FEET DEEP PIT	150	EA	\$1,600.00	\$240,000.00	\$ 1,000.00	\$150,000.00	\$ 1,600.00	\$240,000.00
1	EXTRA DEPTH	25	VF	\$0.01	\$0.25	\$ 65.00	\$1,625.00	\$ 320.00	\$8,000.00
2	ADDITIONAL SIZE	150	SF	\$10.00	\$1,500.00	\$ 25.00	\$3,750.00	\$ 50.00	\$7,500.00
B	STANDARD 5-FEET BY 7-FEET BY 5-FEET DEEP PIT IN PAVEMENT	150	EA	\$2,000.00	\$300,000.00	\$ 1,600.00	\$240,000.00	\$ 1,900.00	\$285,000.00
1	EXTRA DEPTH	25	VF	\$0.01	\$0.25	\$ 65.00	\$1,625.00	\$ 380.00	\$9,500.00
2	ADDITIONAL SIZE	150	SF	\$52.00	\$7,800.00	\$ 35.00	\$5,250.00	\$ 50.00	\$7,500.00
4	PERFORM ALL WORK IN ACCESS PITS								
A	12-INCH PIPE	30	EA	\$400.00	\$12,000.00	\$ 1,000.00	\$30,000.00	\$ 1,400.00	\$42,000.00
B	8-INCH PIPE	65	EA	\$300.00	\$19,500.00	\$ 750.00	\$48,750.00	\$ 1,100.00	\$71,500.00
C	6-INCH PIPE	225	EA	\$300.00	\$67,500.00	\$ 750.00	\$168,750.00	\$ 950.00	\$213,750.00
D	4-INCH PIPE	5	EA	\$300.00	\$1,500.00	\$ 500.00	\$2,500.00	\$ 950.00	\$4,750.00
5	EXCAVATE/REMOVE AN OBSTRUCTION								
		20	EA	\$0.01	\$0.20	\$ 1.00	\$20.00	\$ 1,700.00	\$34,000.00
6	FURNISH/INSTALL POLYVINYL CHLORIDE PIPE OR D.I.P. (PRESSURE CLASS 350)								
	12-INCH WATER MAIN, 0-4 FEET OF COVER	300	LF	\$20.00	\$6,000.00	\$ 30.00	\$9,000.00	\$ 55.00	\$16,500.00
	12-INCH WATER MAIN, GREATER THAN 4 FEET OF COVER	50	LF	\$20.00	\$1,000.00	\$ 30.00	\$1,500.00	\$ 75.00	\$3,750.00
A	8-INCH WATER MAIN, 0-4 FEET OF COVER	500	LF	\$15.00	\$7,500.00	\$ 12.00	\$6,000.00	\$ 42.00	\$21,000.00
B	8-INCH WATER MAIN, GREATER THAN 4 FEET OF COVER	50	LF	\$15.00	\$750.00	\$ 12.00	\$600.00	\$ 75.00	\$3,750.00
C	6-INCH WATER MAIN, 0-4 FEET OF COVER	2,000	LF	\$10.00	\$20,000.00	\$ 7.00	\$14,000.00	\$ 36.00	\$72,000.00
D	6-INCH WATER MAIN, GREATER THAN 4 FEET OF COVER	200	LF	\$10.00	\$2,000.00	\$ 7.00	\$1,400.00	\$ 55.00	\$11,000.00
7	FURNISH AND INSTALL 2-INCH POLYVINYL CHLORIDE PIPE								
A	0-4 FEET OF COVER	2,000	LF	\$10.00	\$20,000.00	\$ 1.00	\$2,000.00	\$ 25.00	\$50,000.00
B	GREATER THAN 4 FEET OF COVER	200	LF	\$10.00	\$2,000.00	\$ 1.00	\$200.00	\$ 35.00	\$7,000.00
8	SUBSTITUTE D.I.P. WITH PUSH-ON JOINTS								
A	8-INCH WATER MAIN	20	LF	\$0.01	\$0.20	\$ 7.50	\$150.00	\$ 20.00	\$400.00
B	6-INCH WATER MAIN	50	LF	\$0.01	\$0.50	\$ 7.50	\$375.00	\$ 16.00	\$800.00
9	FURNISH AND INSTALL MAIN LINE GATE VALVES								
A	12-INCH GATE VALVE	10	EA	\$1,200.00	\$12,000.00	\$ 2,250.00	\$22,500.00	\$ 2,100.00	\$21,000.00
B	8-INCH GATE VALVE	15	EA	\$900.00	\$13,500.00	\$ 1,000.00	\$15,000.00	\$ 1,400.00	\$21,000.00

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C	6-INCH GATE VALVE	50	EA	\$650.00	\$32,500.00	\$ 900.00	\$45,000.00	\$ 1,100.00	\$55,000.00
D	4-INCH GATE VALVE	5	EA	\$130.00	\$650.00	\$ 500.00	\$2,500.00	\$ 800.00	\$4,000.00
E	2-INCH GATE VALVE	5	EA	\$120.00	\$600.00	\$ 150.00	\$750.00	\$ 700.00	\$3,500.00
10	FURNISH AND INSTALL FIRE HYDRANTS								
A	FIRE HYDRANT	60	EA	\$2,200.00	\$132,000.00	\$ 3,800.00	\$228,000.00	\$ 3,900.00	\$234,000.00
B	6-INCH DUCTILE IRON PIPE (PRESSURE CLASS 350)	500	LF	\$50.00	\$25,000.00	\$ 110.00	\$55,000.00	\$ 30.00	\$15,000.00
C	6-INCH HORIZONTAL 90 DEGREE BEND	15	EA	\$50.00	\$750.00	\$ 250.00	\$3,750.00	\$ 225.00	\$3,375.00
D	EXTENSION STEM	25	VF	\$0.01	\$0.25	\$ 200.00	\$5,000.00	\$ 400.00	\$10,000.00
E	INSTALL ON ACTIVE MAIN USING TAPPING SLEEVE & VALVE								
1	12-INCH MAIN	5	EA	\$100.00	\$500.00	\$ 600.00	\$3,000.00	\$ 6,000.00	\$30,000.00
2	8-INCH MAIN	2	EA	\$100.00	\$200.00	\$ 600.00	\$1,200.00	\$ 6,000.00	\$12,000.00
3	6-INCH MAIN	2	EA	\$100.00	\$200.00	\$ 600.00	\$1,200.00	\$ 6,000.00	\$12,000.00
11	TRANSFER EXISTING WATER SERVICE LINE								
A	LONG SIDE (3/4")-TYPE K COPPER	150	EA	\$300.00	\$45,000.00	\$ 900.00	\$135,000.00	\$ 850.00	\$127,500.00
B	LONG SIDE (1")-TYPE K COPPER	5	EA	\$300.00	\$1,500.00	\$ 1,150.00	\$5,750.00	\$ 1,050.00	\$5,250.00
C	LONG SIDE (2") -PVC	5	EA	\$1,700.00	\$8,500.00	\$ 2,300.00	\$11,500.00	\$ 2,000.00	\$10,000.00
D	SHORT SIDE (3/4") -TYPE K COPPER	100	EA	\$200.00	\$20,000.00	\$ 800.00	\$80,000.00	\$ 375.00	\$37,500.00
E	SHORT SIDE (1") -TYPE K COPPER	5	EA	\$200.00	\$1,000.00	\$ 500.00	\$2,500.00	\$ 475.00	\$2,375.00
F	SHORT SIDE (2") PVC	5	EA	\$900.00	\$4,500.00	\$ 1,100.00	\$5,500.00	\$ 900.00	\$4,500.00
G	REPLACE EXISTING METER BOX WITH NEW CONCRETE BOX	10	EA	\$200.00	\$2,000.00	\$ 300.00	\$3,000.00	\$ 100.00	\$1,000.00
12	SERVICE RENEWAL AND CONNECTION								
A	3/4-INCH	250	EA	\$600.00	\$150,000.00	\$ 1,100.00	\$275,000.00	\$ 400.00	\$100,000.00
B	1-INCH	5	EA	\$800.00	\$4,000.00	\$ 1,200.00	\$6,000.00	\$ 550.00	\$2,750.00
13	FURNISH/INSTALL ADDITIONAL FITTINGS	20,000	LBS	\$0.10	\$2,000.00	\$ 5.00	\$100,000.00	\$ 5.25	\$105,000.00
14	FURNISH, FORM AND PLACE PLAIN CONCRETE BLOCKING	425	CF	\$6.50	\$2,762.50	\$ 7.00	\$2,975.00	\$ 12.00	\$5,100.00
15	FURNISH/INSTALL TAPPING SLEEVES AND VALVES AND TAPPING SADDLES AND CORPORATIONS								
A	12" X 8" TAPPING SLEEVE AND VALVE	2	EA	\$1,240.00	\$2,480.00	\$ 1,650.00	\$3,300.00	\$ 2,500.00	\$5,000.00
B	12" X 6" TAPPING SLEEVE AND VALVE	2	EA	\$1,033.00	\$2,066.00	\$ 2,100.00	\$4,200.00	\$ 2,100.00	\$4,200.00
C	12" X 2" TAPPING SADDLE AND CORPORATION	2	EA	\$300.00	\$600.00	\$ 300.00	\$600.00	\$ 800.00	\$1,600.00
D	8" X 8" TAPPING SLEEVE AND VALVE (FULL BODY)	2	EA	\$1,240.00	\$2,480.00	\$ 1,750.00	\$3,500.00	\$ 2,100.00	\$4,200.00
E	8" X 6" TAPPING SLEEVE AND VALVE	2	EA	\$930.00	\$1,860.00	\$ 1,200.00	\$2,400.00	\$ 2,100.00	\$4,200.00
F	8" X 2" TAPPING SADDLE AND CORPORATION	2	EA	\$300.00	\$600.00	\$ 300.00	\$600.00	\$ 800.00	\$1,600.00
G	6" X 6" TAPPING SLEEVE AND VALVE (FULL BODY)	2	EA	\$600.00	\$1,200.00	\$ 1,300.00	\$2,600.00	\$ 2,100.00	\$4,200.00
H	6" X 2" TAPPING SADDLE AND CORPORATION	2	EA	\$300.00	\$600.00	\$ 300.00	\$600.00	\$ 800.00	\$1,600.00
16	FURNISH, USE AND REMOVE TEMPORARY 2-INCH BLOW OFFS	10	EA	\$500.00	\$5,000.00	\$ 800.00	\$8,000.00	\$ 800.00	\$8,000.00
17	PERMANENT 2" BLOW OFF (STD. DETAIL 13)	10	EA	\$300.00	\$3,000.00	\$ 900.00	\$9,000.00	\$ 1,500.00	\$15,000.00
18	CONNECT TO EXISTING WATER MAINS								
A	8-INCH DIAMETER	6	EA	\$100.00	\$600.00	\$ 300.00	\$1,800.00	\$ 1,200.00	\$7,200.00
B	6-INCH DIAMETER	8	EA	\$100.00	\$800.00	\$ 300.00	\$2,400.00	\$ 800.00	\$6,400.00
C	2-INCH DIAMETER	8	EA	\$100.00	\$800.00	\$ 150.00	\$1,200.00	\$ 800.00	\$6,400.00
19	ABANDONMENT OF EXISTING WATER MAINS								
A	CLOSE CORPORATION VALVE - DISCONNECT AND CAP OLD MAIN	10	EA	\$300.00	\$3,000.00	\$ 700.00	\$7,000.00	\$ 500.00	\$5,000.00
B	CUT AND REMOVE FITTING - CAP OLD MAIN - REPAIR ACTIVE MAIN	10	EA	\$900.00	\$9,000.00	\$ 1,400.00	\$14,000.00	\$ 2,500.00	\$25,000.00
C	REMOVE EXISTING VALVE BOX AND ABANDON EXISTING VALVE	40	EA	\$300.00	\$12,000.00	\$ 175.00	\$7,000.00	\$ 200.00	\$8,000.00
20	FOR REPAIR OF LEAKING WATER SERVICES								
A	3/4 INCH REPAIRS	20	EA	\$0.01	\$0.20	\$ 250.00	\$5,000.00	\$ 350.00	\$7,000.00

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B	1-INCH REPAIRS	2	EA	\$0.01	\$0.02	\$ 300.00	\$600.00	\$ 450.00	\$900.00
C	3/4-INCH TUBING	100	LF	\$30.00	\$3,000.00	\$ 75.00	\$7,500.00	\$ 15.00	\$1,500.00
D	1-INCH TUBING	20	LF	\$30.00	\$600.00	\$ 80.00	\$1,600.00	\$ 25.00	\$500.00
21	REPAIR AND REPLACE BROKEN/LEAKING 4-INCH DUCTILE IRON/POLYVINYL/CAST IRON PIPE	80	LF	\$220.00	\$17,600.00	\$ 90.00	\$7,200.00	\$ 90.00	\$7,200.00
22	ADJUST EXISTING VALVE BOX	10	EA	\$520.00	\$5,200.00	\$ 550.00	\$5,500.00	\$ 175.00	\$1,750.00
23	FOR CUTTING (SAWING), MILLING, AND REPLACING ALL ASPHALTIC PAVEMENT AS SPECIFIED, COMPLETE IN PLACE								
A	FOR CUTTING (SAWING) ASPHALT/CONCRETE PAVEMENT	15,000	LF	\$5.00	\$75,000.00	\$ 2.75	\$41,250.00	\$ 1.50	\$22,500.00
B	FOR REMOVING AND DISPOSING OF ASPHALT/CONCRETE PAVEMENT								
a	0"-3" DEPTH	2,100	SY	\$0.01	\$21.00	\$ 1.00	\$2,100.00	\$ 7.00	\$14,700.00
b	3"-6" DEPTH	2,000	SY	\$0.01	\$20.00	\$ 1.00	\$2,000.00	\$ 14.00	\$28,000.00
c	FOR EACH ADDITIONAL 3-INCH DEPTH OF REMOVAL AND DISPOSAL OF ASPHALT/CONCRETE PAVEMENT (will be in addition to item (b) above)	500	SY	\$100.00	\$50,000.00	\$ 4.50	\$2,250.00	\$ 8.00	\$4,000.00
C	FOR REPLACING ASPHALT PAVEMENT (INCLUDING SURFACE COURSE)								
a	6-INCH DEPTH	200	SY	\$106.00	\$21,200.00	\$ 115.00	\$23,000.00	\$ 38.00	\$7,600.00
b	8-INCH DEPTH	3900	SY	\$106.00	\$413,400.00	\$ 115.00	\$448,500.00	\$ 47.50	\$185,250.00
D	FOR ADDITIONAL 4-INCH DEEP BINDER COURSE (WILL BE IN ADDITION TO ITEMS C. (a) or (b) above)	500	SY	\$0.01	\$5.00	\$ 30.00	\$15,000.00	\$ 30.00	\$15,000.00
E	FOR 1-INCH DEPTH OF SURFACE COURSE OVERLAY	400	SY	\$54.00	\$21,600.00	\$ 16.00	\$6,400.00	\$ 12.00	\$4,800.00
F	FOR REMOVING AND REPLACING ROLL TYPE FULL DEPTH COMPACTED ASPHALT CURBING (hand placed or by machine - contractor's option)	500	LF	\$5.00	\$2,500.00	\$ 8.00	\$4,000.00	\$ 25.00	\$12,500.00
G	FOR MILLING EXISTING ASPHALT PAVEMENT TO A DEPTH OF 1.5 INCHES, AND REPAVING WITH S9.5C (I-2) OVERLAY	800	SY	\$5.00	\$4,000.00	\$ 26.00	\$20,800.00	\$ 25.00	\$20,000.00
24	CUT/REMOVE/REPLACE CONCRETE CURB	500	LF	\$30.00	\$15,000.00	\$ 15.00	\$7,500.00	\$ 40.00	\$20,000.00
25	CUT/SAW REMOVE AND REPLACE CONCRETE DRIVEWAYS								
A	DRIVEWAYS (6-INCH REINFORCED)	40	SY	\$5.00	\$200.00	\$ 45.00	\$1,800.00	\$ 80.00	\$3,200.00
B	SIDEWALKS (4-INCH)	600	SY	\$5.00	\$3,000.00	\$ 45.00	\$27,000.00	\$ 55.00	\$33,000.00
26	FURNISH SELECT BACKFILL MATERIAL					\$54,372.00			
A	GRANULAR	3,000	CY	\$35.00	\$105,000.00	\$ 40.00	\$120,000.00	\$ 60.00	\$180,000.00
B	FLOWABLE FILL	100	CY	\$90.00	\$9,000.00	\$ 125.00	\$12,500.00	\$ 175.00	\$17,500.00
27	LOCATE UNDERGROUND UTILITIES	100	EA	\$0.01	\$1.00	\$ 0.01	\$1.00	\$ 200.00	\$20,000.00
28	RELOCATE UNDERGROUND CABLES/PLASTIC MAINS								
A	PHONE (FIBER OPTICS)	25	LF	\$0.01	\$0.25	\$ 0.01	\$0.25	\$ 20.00	\$500.00
B	PHONE (NON-FIBER OPTICS)	25	LF	\$0.01	\$0.25	\$ 0.01	\$0.25	\$ 20.00	\$500.00
C	POWER CABLES	25	LF	\$0.01	\$0.25	\$ 0.01	\$0.25	\$ 20.00	\$500.00
D	CABLE TV CABLES	25	LF	\$0.01	\$0.25	\$ 0.01	\$0.25	\$ 20.00	\$500.00
E	PLASTIC NATURAL GAS MAINS	25	LF	\$0.01	\$0.25	\$ 0.01	\$0.25	\$ 20.00	\$500.00
29	CUT/REMOVE OLD TROLLEY TRACKS	25	LF	\$0.01	\$0.25	\$ 0.01	\$0.25	\$ 50.00	\$1,250.00
30	"C" FACTOR TESTING	20	EA	\$0.01	\$0.20	\$ 100.00	\$2,000.00	\$ 1,500.00	\$30,000.00
31	MAINTAIN TRAFFIC IN MAJOR THOROUGHFARES OR NCDOT ROADS								
A	2 FULL TIME FLAGGERS	150	DYS	\$450.00	\$67,500.00	\$ 525.00	\$78,750.00	\$ 300.00	\$45,000.00
B	REFLECTIVE TRAFFIC CONTROL SIGNS	50	EA	\$200.00	\$10,000.00	\$ 50.00	\$2,500.00	\$ 255.00	\$12,750.00

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C	REFLECTIVE 28-INCH TALL TRAFFIC CONES	200	EA	\$30.00	\$6,000.00	\$ 16.00	\$3,200.00	\$ 25.00	\$5,000.00
D	REFLECTIVE 36-INCH TALL, 18-INCH NON METALLIC DRUMS	50	EA	\$60.00	\$3,000.00	\$ 20.00	\$1,000.00	\$ 50.00	\$2,500.00
E	REFLECTIVE 36-INCH TALL, 18-INCH NON METALLIC DRUMS W/FLASHING WARNING LIGHTS	10	EA	\$10.00	\$100.00	\$ 0.01	\$0.10	\$ 125.00	\$1,250.00
F	REFLECTIVE 8-FEET WIDE TYPE III BARRICADES	5	EA	\$500.00	\$2,500.00	\$ 100.00	\$500.00	\$ 450.00	\$2,250.00
G	CONCRETE BARRIERS	10	EA	\$10.00	\$100.00	\$ 1.00	\$10.00	\$ 600.00	\$6,000.00
H	TYPE B (30" X 60") FLASHING ARROW PANEL	5	EA	\$1,200.00	\$6,000.00	\$ 1,000.00	\$5,000.00	\$ 500.00	\$2,500.00
I	OFF DUTY POLICE OFFICER	1,000	HR	\$15.00	\$15,000.00	\$ 45.00	\$45,000.00	\$ 40.00	\$40,000.00
32	RESTRICTED WORK HOURS OF 9:00 AM TO 4:00 PM	11,000	LF	\$10.00	\$110,000.00	\$ 30.00	\$330,000.00	\$ 10.00	\$110,000.00
33	MOBILIZATION								
A	INITIAL MOBILIZATION	1	EA	\$100,000.00	\$100,000.00	\$ 54,372.00	\$54,372.00	\$ 120,000.00	\$120,000.00
B	RE-MOBILIZATION	1	EA	\$0.01	\$0.01	\$ 1.00	\$1.00	\$ 60,000.00	\$60,000.00
C	MOBILIZATION TO PROVIDE EMERGENCY TEMPORARY WATER SYSTEM	10	EA	\$0.01	\$0.10	\$ 1.00	\$10.00	\$ 2,000.00	\$20,000.00
	SUBTOTAL (ITEMS 1-33)				\$3,370,169.18		\$4,614,945.60		\$4,718,350.00
34	CONTINGENCY ALLOWANCE (8% OF SUB-TOTAL)				\$269,613.53		\$369,195.65		\$377,468.00
	TOTAL ITEMS (1-34)				\$3,639,782.71		\$4,984,141.25		\$5,095,818.00