

MEMORANDUM

To: Mayor and City Council

From: Michael Smith, Public Works Director

Date: March 28, 2016

Subject: **Approval of a Construction Contract for Chamblee Dunwoody Water Main and Paving-Cambridge to Womack**

ITEM DESCRIPTION

Approval to award a construction contract to Kemi Construction in the amount of \$2,373,994 for water main replacement and paving on Chamblee Dunwoody Road between Cambridge Drive and Womack Road.

BACKGROUND

The city recently advertised and received bids for Invitation to Bid (ITB) 16-01 Chamblee Dunwoody Road Water Main Replacement and Road Resurfacing between Cambridge Drive and Womack Road. This bid is the final component necessary to complete of the water main replacement and road improvements on Chamblee Dunwoody Road between Cambridge Drive and Roberts Drive. Contracts for the water main and paving north of Womack Road and for the bicycle and pedestrian improvements south of Womack Road were approved by the city council in October 2015 and construction is currently underway.

Four bids were received with Kemi Construction Co., Inc. submitting the lowest bid at \$2,373,994. Of the total bid amount, the city will be responsible for the paving cost of \$945,280 with the county reimbursing the city for the water main cost of \$1,428,714 in accordance with the Intergovernmental Agreement for this project. The costs are within the amount budgeted for the project. A tabulation of the bids is included on the following page.

RECOMMENDED ACTION

Staff recommends approval of a contract with GS Construction, Inc. for an amount not to exceed \$2,373,994 plus a contingency of \$235,000 (up to \$95,000 city funds). Upon approval the city will work expeditiously for approval of the funding by the DeKalb Board of Commissioners so that construction can begin.

	Paving Item	Unit Measure	Qty	Site Eng		BRTU		GS Cont		Kemi Cont	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
150-1000	TRAFFIC CONTROL	LS	1	\$ 300,000.00	\$ 300,000.00	\$ 119,140.00	\$ 119,140.00	\$ 25,000.00	\$ 25,000.00	\$ 7,500.00	\$ 7,500.00
402-1802	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	TN	850	\$ 200.00	\$ 170,000.00	\$ 175.00	\$ 148,750.00	\$ 150.00	\$ 127,500.00	\$ 130.00	\$ 110,500.00
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	1100	\$ 130.00	\$ 143,000.00	\$ 100.00	\$ 110,000.00	\$ 104.00	\$ 114,400.00	\$ 124.00	\$ 136,400.00
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR GP 2, INCL BITUM MATL & H LIME	TN	600	\$ 130.00	\$ 78,000.00	\$ 125.00	\$ 75,000.00	\$ 150.00	\$ 90,000.00	\$ 130.00	\$ 78,000.00
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	270	\$ 130.00	\$ 35,100.00	\$ 138.00	\$ 37,260.00	\$ 104.00	\$ 28,080.00	\$ 130.00	\$ 35,100.00
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR GP 2, INCL BITUM MATL & H LIME	TN	2200	\$ 130.00	\$ 286,000.00	\$ 90.00	\$ 198,000.00	\$ 150.00	\$ 330,000.00	\$ 130.00	\$ 286,000.00
407-0010	ASPHALT- RUBBER JOINT AND CRACK SEAL, TP M	LF	15000	\$ 6.00	\$ 90,000.00	\$ 1.80	\$ 27,000.00	\$ 2.50	\$ 37,500.00	\$ 2.75	\$ 41,250.00
413-1000	BITUM TACK COAT	GL	1800	\$ 10.00	\$ 18,000.00	\$ 5.00	\$ 9,000.00	\$ 5.00	\$ 9,000.00	\$ 7.00	\$ 12,600.00
432-5010	MILL ASPH CONC PVMT, VARIABLE	SY	22000	\$ 10.00	\$ 220,000.00	\$ 4.50	\$ 99,000.00	\$ 4.00	\$ 88,000.00	\$ 7.00	\$ 154,000.00
647-6200	LOOP DETECTOR-6FT X 6FT, BIPOLE	EA	1	\$ 8,000.00	\$ 8,000.00	\$ 1,800.00	\$ 1,800.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
647-6300	LOOP DETECTOR-6FT X 40FT, QUADRUPOLE	EA	1	\$ 20,000.00	\$ 20,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,000.00	\$ 4,000.00	\$ 3,000.00	\$ 3,000.00
652-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	6	\$ 100.00	\$ 600.00	\$ 175.00	\$ 1,050.00	\$ 300.00	\$ 1,800.00	\$ 450.00	\$ 2,700.00

652-0094	PAVEMENT MARKING SYMBL, TP 4	EA	31	\$ 100.00	\$ 3,100.00	\$ 280.00	\$ 8,680.00	\$ 180.00	\$ 5,580.00	\$ 350.00	\$ 10,850.00
653-0110	PAVEMENT MARKING ARROW, TP 1	EA	31	\$ 100.00	\$ 3,100.00	\$ 175.00	\$ 5,425.00	\$ 180.00	\$ 5,580.00	\$ 350.00	\$ 10,850.00
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	4300	\$ 3.00	\$ 12,900.00	\$ 0.75	\$ 3,225.00	\$ 1.50	\$ 6,450.00	\$ 1.50	\$ 6,450.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	10100	\$ 2.00	\$ 20,200.00	\$ 0.75	\$ 7,575.00	\$ 1.50	\$ 15,150.00	\$ 1.25	\$ 12,625.00
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	250	\$ 10.00	\$ 2,500.00	\$ 12.00	\$ 3,000.00	\$ 12.00	\$ 3,000.00	\$ 20.00	\$ 5,000.00
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	1300	\$ 5.00	\$ 6,500.00	\$ 3.50	\$ 4,550.00	\$ 5.00	\$ 6,500.00	\$ 10.00	\$ 13,000.00
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	3000	\$ 3.00	\$ 9,000.00	\$ 0.65	\$ 1,950.00	\$ 1.25	\$ 3,750.00	\$ 1.50	\$ 4,500.00
653-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GLF	450	\$ 3.00	\$ 1,350.00	\$ 0.65	\$ 292.50	\$ 1.25	\$ 562.50	\$ 1.50	\$ 675.00
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	200	\$ 10.00	\$ 2,000.00	\$ 7.00	\$ 1,400.00	\$ 8.00	\$ 1,600.00	\$ 15.00	\$ 3,000.00
654-1001	RAISED PVMT MARKERS TP 1	EA	122	\$ 10.00	\$ 1,220.00	\$ 7.00	\$ 854.00	\$ 10.00	\$ 1,220.00	\$ 20.00	\$ 2,440.00
654-1003	RAISED PVMT MARKERS TP 3	EA	292	\$ 10.00	\$ 2,920.00	\$ 7.00	\$ 2,044.00	\$ 10.00	\$ 2,920.00	\$ 20.00	\$ 5,840.00
PAVING TOTAL					\$ 1,433,490.00		\$ 867,495.50		\$ 910,592.50		\$ 945,280.00

	Water Main Item	Unit Measure	Qty	Site Eng		BRTU		GS Cont		Kemi Cont	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
150-1000	TRAFFIC CONTROL	LS	1	\$ 500,000.00	\$ 500,000.00	\$ 310,350.00	\$ 310,350.00	\$ 425,000.00	\$ 425,000.00	\$ 222,630.00	\$ 222,630.00
163-0001	EROSION CONTROL PER WATER MAIN DRAWINGS	LS	1	\$ 170,000.00	\$ 170,000.00	\$ 32,269.00	\$ 32,269.00	\$ 25,000.00	\$ 25,000.00	\$ 22,600.00	\$ 22,600.00
441-0016	DRIVEWAY CONCRETE, 6 IN THICK	SY	80	\$ 60.00	\$ 4,800.00	\$ 65.00	\$ 5,200.00	\$ 55.00	\$ 4,400.00	\$ 60.00	\$ 4,800.00
441-0104	CONCRETE SIDEWALK, 4 IN	SY	80	\$ 50.00	\$ 4,000.00	\$ 50.00	\$ 4,000.00	\$ 50.00	\$ 4,000.00	\$ 45.00	\$ 3,600.00

441-6216	CONCRETE CURB & GUTTER, 8 IN X 24 IN, TP 2	LF	500	\$ 40.00	\$ 20,000.00	\$ 20.00	\$ 10,000.00	\$ 25.00	\$ 12,500.00	\$ 27.00	\$ 13,500.00
500-3200	CONCRETE ENCASEMENT, 12" THICK	CY	20	\$ 200.00	\$ 4,000.00	\$ 400.00	\$ 8,000.00	\$ 50.00	\$ 1,000.00	\$ 176.00	\$ 3,520.00
615-1000	JACK AND BORE PIPE, 8" DIP	LF	180	\$ 300.00	\$ 54,000.00	\$ 250.00	\$ 45,000.00	\$ 400.00	\$ 72,000.00	\$ 196.00	\$ 35,280.00
615-1002	JACK AND BORE PIPE, COPPER 3/4", 1", OR 2"	LF	800	\$ 25.00	\$ 20,000.00	\$ 40.00	\$ 32,000.00	\$ 30.00	\$ 24,000.00	\$ 38.00	\$ 30,400.00
670-0001	FLOWABLE FILL (ABANDON WATERLINE AND GROUT FILL)	CY	65	\$ 450.00	\$ 29,250.00	\$ 275.00	\$ 17,875.00	\$ 300.00	\$ 19,500.00	\$ 335.00	\$ 21,775.00
670-1001	POLYETHYLENE ENCASEMENT, WATER MAIN	LF	200	\$ 10.00	\$ 2,000.00	\$ 30.00	\$ 6,000.00	\$ 1.00	\$ 200.00	\$ 2.00	\$ 400.00
670-1060	WATER MAIN, 6" DIP	LF	310	\$ 252.00	\$ 78,120.00	\$ 160.00	\$ 49,600.00	\$ 100.00	\$ 31,000.00	\$ 115.00	\$ 35,650.00
670-1080	WATER MAIN, 8" DIP	LF	5000	\$ 227.00	\$ 1,135,000.00	\$ 160.00	\$ 800,000.00	\$ 105.00	\$ 525,000.00	\$ 104.00	\$ 520,000.00
670-1500	CAP AND REMOVE EXISTING WATER MAIN(PEROPERLY DISPOSE OF WM, INCL ASBESTOS CEMENT PIPE)	EA	8	\$ 2,000.00	\$ 16,000.00	\$ 3,500.00	\$ 28,000.00	\$ 750.00	\$ 6,000.00	\$ 2,630.00	\$ 21,040.00
670-1600	CUT & PLUG EXISTING WATER MAIN	EA	9	\$ 2,000.00	\$ 18,000.00	\$ 2,300.00	\$ 20,700.00	\$ 6,500.00	\$ 58,500.00	\$ 2,630.00	\$ 23,670.00
670-2002	VALVE MARKER	EA	60	\$ 100.00	\$ 6,000.00	\$ 75.00	\$ 4,500.00	\$ 100.00	\$ 6,000.00	\$ 162.00	\$ 9,720.00
670-2003	AIR RELEASE VALVE ASSEMBLY & VAULT	EA	2	\$ 5,000.00	\$ 10,000.00	\$ 3,000.00	\$ 6,000.00	\$ 7,500.00	\$ 15,000.00	\$ 4,250.00	\$ 8,500.00
670-2008	INILNE INSERTAVALVE, 8" OR SMALLER	EA	2	\$ 12,000.00	\$ 24,000.00	\$ 13,000.00	\$ 26,000.00	\$ 18,000.00	\$ 36,000.00	\$ 14,112.00	\$ 28,224.00
670-2060	GATE VALVE, 6" W/BOX & PAD	EA	15	\$ 1,200.00	\$ 18,000.00	\$ 1,500.00	\$ 22,500.00	\$ 1,200.00	\$ 18,000.00	\$ 970.00	\$ 14,550.00
670-2080	GATE VALVE, 8" W/BOX & PAD	EA	27	\$ 1,500.00	\$ 40,500.00	\$ 1,850.00	\$ 49,950.00	\$ 1,500.00	\$ 40,500.00	\$ 1,230.00	\$ 33,210.00
670-3066	TAPPING SLEEVE & VALVE ASSEMBLY, 6" X 6"	EA	9	\$ 4,500.00	\$ 40,500.00	\$ 4,600.00	\$ 41,400.00	\$ 7,000.00	\$ 63,000.00	\$ 2,627.00	\$ 23,643.00

670-3086	TAPPING SLEEVE & VALVE ASSEMBLY, 8" X 6"	EA	2	\$ 4,800.00	\$ 9,600.00	\$ 4,800.00	\$ 9,600.00	\$ 8,000.00	\$ 16,000.00	\$ 2,880.00	\$ 5,760.00
670-3087	TAPPING SLEEVE & VALVE ASSEMBLY; 8" X 8"	EA	3	\$ 4,800.00	\$ 14,400.00	\$ 5,200.00	\$ 15,600.00	\$ 8,600.00	\$ 25,800.00	\$ 3,255.00	\$ 9,765.00
670-3160	TAPPING SLEEVE & VALVE ASSEMBLY; 16" X 8"	EA	4	\$ 7,500.00	\$ 30,000.00	\$ 10,000.00	\$ 40,000.00	\$ 16,000.00	\$ 64,000.00	\$ 7,860.00	\$ 31,440.00
670-4000	FIRE HYDRANT ASSEMBLY (NO VALVE INCLUDED)	EA	11	\$ 3,500.00	\$ 38,500.00	\$ 3,500.00	\$ 38,500.00	\$ 4,000.00	\$ 44,000.00	\$ 2,098.00	\$ 23,078.00
670-4500	CONCRETE THRUST COLLAR, 6 IN PIPE OR SMALLER	EA	10	\$ 1,000.00	\$ 10,000.00	\$ 600.00	\$ 6,000.00	\$ 500.00	\$ 5,000.00	\$ 160.00	\$ 1,600.00
670-4510	CONCRETE THRUST COLLAR. 8 IN PIPE OR LARGER	EA	12	\$ 1,000.00	\$ 12,000.00	\$ 600.00	\$ 7,200.00	\$ 500.00	\$ 6,000.00	\$ 160.00	\$ 1,920.00
670-5620	WATER SERVICE LINE, 3/4 INCH	LF	400	\$ 30.00	\$ 12,000.00	\$ 55.00	\$ 22,000.00	\$ 25.00	\$ 10,000.00	\$ 3.00	\$ 1,200.00
670-5010	WATER SERVICE LINE, 1 INCH	LF	100	\$ 40.00	\$ 4,000.00	\$ 67.00	\$ 6,700.00	\$ 35.00	\$ 3,500.00	\$ 13.00	\$ 1,300.00
670-5015	WATER SERVICE LINE, 1 1/2 INCH	LF	100	\$ 50.00	\$ 5,000.00	\$ 80.00	\$ 8,000.00	\$ 40.00	\$ 4,000.00	\$ 15.00	\$ 1,500.00
670-5020	WATER SERVICE LINE, 2 INCH	LF	150	\$ 55.00	\$ 8,250.00	\$ 95.00	\$ 14,250.00	\$ 45.00	\$ 6,750.00	\$ 18.00	\$ 2,700.00
670-7000	STEEL CASING, 18 INCH	LF	180	\$ 150.00	\$ 27,000.00	\$ 75.00	\$ 13,500.00	\$ 100.00	\$ 18,000.00	\$ 60.00	\$ 10,800.00
670-9400	REPLACEMENT OF UNSUITABLE TRENCH MATERIAL	CY	15	\$ 80.00	\$ 1,200.00	\$ 45.00	\$ 675.00	\$ 50.00	\$ 750.00	\$ 116.00	\$ 1,740.00
670-9710	RELOCATE EXIST. FIRE HYDRANT AND ASSEMBLY	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 2,500.00	\$ 5,000.00	\$ 2,000.00	\$ 4,000.00	\$ 902.00	\$ 1,804.00
670-9729	REPLACE EXIST. WATER METER & BOX	EA	10	\$ 1,000.00	\$ 10,000.00	\$ 520.00	\$ 5,200.00	\$ 350.00	\$ 3,500.00	\$ 202.00	\$ 2,020.00
670-9730	RELOCATE EXISTING WATER METER, INCL BOX	EA	10	\$ 300.00	\$ 3,000.00	\$ 490.00	\$ 4,900.00	\$ 300.00	\$ 3,000.00	\$ 413.00	\$ 4,130.00

670-9728	REPLACE EXISTING WATER METER, BOX, & CUSTOMER CUT OFF VALVE & BOX	EA	50	\$ 1,100.00	\$ 55,000.00	\$ 765.00	\$ 38,250.00	\$ 450.00	\$ 22,500.00	\$ 426.00	\$ 21,300.00
670-9741	REMOVE OR RELOCATE EXISTING BACKFLOW PREVENTION ASSEMBLY, METER, AND VAULT. <4"	EA	3	\$ 10,000.00	\$ 30,000.00	\$ 10,000.00	\$ 30,000.00	\$ 2,500.00	\$ 7,500.00	\$ 311.00	\$ 933.00
670-1650	BACKFLOW PREVENTION ASSEMBLY, <8"	EA	1	\$ 15,000.00	\$ 15,000.00	\$ 13,500.00	\$ 13,500.00	\$ 16,000.00	\$ 16,000.00	\$ 12,281.00	\$ 12,281.00
670-9920	REMOVE EXISTING FIRE HYDRANT	EA	3	\$ 800.00	\$ 2,400.00	\$ 850.00	\$ 2,550.00	\$ 350.00	\$ 1,050.00	\$ 301.00	\$ 903.00
670-9743	RELOCATE EXISTING BACKFLOW PREVENTER, 3/4" TO 2"	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 1,000.00	\$ 2,000.00	\$ 1,000.00	\$ 2,000.00	\$ 414.00	\$ 828.00
CSR	COORDINATED SITE RESTORATION	LS	1	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00
P-01	SUBSURFACE UTILITY ENGINEERING TEST HOLES OWNER DIRECTED SUE BETWEEN STA 33+00 TO STA 46+00	EA	15	\$ 2,000.00	\$ 30,000.00	\$ 750.00	\$ 11,250.00	\$ 2,000.00	\$ 30,000.00	\$ 1,000.00	\$ 15,000.00
WATER MAIN TOTAL					\$ 2,715,520.00		\$ 2,014,019.00		\$ 1,879,950.00		\$ 1,428,714.00
BID TOTAL					\$ 4,149,010.00		\$ 2,881,514.50		\$ 2,790,542.50		\$ 2,373,994.00