

MEMORANDUM

To: Mayor and City Council

From: Michael Smith, Public Works Director

Date: July 28, 2020

Subject: **Approval of a Contract for Pavement Reconstruction on Dunwoody Club Drive Between Happy Hollow Road and the City Limit**

BACKGROUND

The 2020 paving plan includes the portion of Dunwoody Club Drive within Dunwoody east of Happy Hollow Road. This section of Dunwoody Club Drive is in marginal condition and an analysis of the pavement indicates that the pavement thickness is not adequate for the level of traffic. The recommendation based on the analysis is to improve the strength of the soil base supporting the pavement by mixing the existing asphalt and soil with cement in a process called Full Depth Reclamation (FDR). After mixing and preparation of the base, new layers of asphalt will be placed to achieve a thicker, stronger pavement without defects, resulting in a completely new pavement designed to better support the traffic loads. The FDR process will require temporary detours for through traffic but access will be maintained to the three side streets on this section of Dunwoody Club Drive.

An alternative to FDR would be to patch the damaged areas and place a thin overlay of new asphalt. This would extend the life of the existing pavement briefly but would not address the structural deficiency of the existing pavement because the existing curb and gutter limit the height to which the pavement can be built up. A second alternative would be to fully remove the existing pavement and completely reconstruct the road. This alternative would address all structural concerns but would take longer to complete and cause more traffic disruption.

The FDR work for Dunwoody Club was not completed as part of the paving this past spring because the scope was not part of the existing unit price paving contract with Blount Construction. The project was advertised for bid as a standalone project along with resurfacing Ashley Trace which is a cul de sac off of Dunwoody Club Drive on the 2020 paving list. Six bids were received representing most of the contractors that perform FDR work. Allied Paving submitted the lowest bid at \$327,269.50 which is within the budget set aside for this project.

Subsequent to the bid opening, staff asked Allied to provide a quote based on their unit prices to also perform FDR work on the western end of Mill Glen Drive. Blount was originally contracted to pave all of Mill Glen Drive, but at the city's request did not complete the section west of Mill Shire Lane because the city was in the process of determining if the culvert under the roadway needed to be increased in size, which would have required digging up the roadway. It has since been determined, subsequent to Blount completing their contract, that the culvert size is adequate and it can be lined without impacting the roadway. Allied's quote to add the remainder of the paving using their bid unit prices is \$90,175.



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RECOMMENDED ACTION

Staff recommends award of a contract to Allied Paving Contractors, Inc. in the amount of \$417,445 for full depth reclamation and paving on Dunwoody Club Drive and Mill Glen Drive and milling and paving on Ashley Trace, and authorization of an additional \$45,000 contingency. Approval is requested at this meeting to allow the contractor to start as soon as possible while traffic is lighter and the weather is favorable.

ROADWAY ITEMS				<i>Estimate</i>		<i>Allied Paving</i>		<i>Shepco</i>		<i>Blount</i>		<i>Atlanta Paving</i>		<i>CW Matthews</i>		<i>Stewart Bros</i>	
GDOT Pay Item	Description	UOM	QTY	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
150-1000	Traffic Control	LS	1	\$72,000.00	\$72,000.00	\$45,000.00	\$45,000.00	\$36,200.00	\$36,200.00	\$57,336.40	\$59,336.40	\$36,000.00	\$36,000.00	\$71,301.81	\$71,301.81	\$60,000.00	\$60,000.00
301-2170	Soil Cement Stabilized Base Course, 10 Inches	SY	4,550	\$18.75	\$85,312.50	\$7.50	\$34,125.00	\$16.20	\$73,710.00	\$12.47	\$56,738.50	\$16.38	\$74,529.00	\$16.39	\$74,574.50	\$21.50	\$97,825.00
301-5000	Portland Cement	TN	160	\$162.00	\$25,920.00	\$200.00	\$32,000.00	\$150.00	\$24,000.00	\$181.89	\$29,102.40	\$170.00	\$27,200.00	\$170.00	\$27,200.00	\$160.00	\$25,600.00
402-1802	Recycled Asphalt Concrete Patching Incl Bituminous Material & H-Lime	TN	225	\$125.00	\$28,125.00	\$148.00	\$33,300.00	\$175.00	\$39,375.00	\$143.31	\$32,244.75	\$165.00	\$37,125.00	\$130.56	\$29,376.00	\$230.00	\$51,750.00
402-3103	Recycled Asphalt Concrete 9.5 MM Superpave Type 2 GP 2 only, including Bituminous Material and H-Lime	TN	216	\$93.50	\$20,196.00	\$118.00	\$25,488.00	\$110.89	\$23,952.24	\$113.14	\$24,438.24	\$113.86	\$24,593.76	\$127.77	\$27,598.32	\$113.10	\$24,429.60
402-3121	Recycled Asphalt Concrete 25 MM Superpave GP 1 or GP 2 Incl Bituminous Material and H-Lime	TN	1,175	\$88.00	\$103,400.00	\$86.00	\$101,050.00	\$89.95	\$105,691.25	\$91.54	\$107,559.50	\$88.34	\$103,799.50	\$76.21	\$89,546.75	\$83.10	\$97,642.50
402-3130	Recycled Asphalt Concrete 12.5 MM Superpave GP 2 Only including Bituminous Material and H-Lime	TN	396	\$91.25	\$36,135.00	\$98.00	\$38,808.00	\$98.18	\$38,879.28	\$103.08	\$40,819.68	\$103.23	\$40,879.08	\$89.22	\$35,331.12	\$98.55	\$39,025.80
413-0750	Tack Coat	GL	325	\$3.25	\$1,056.25	\$3.00	\$975.00	\$6.00	\$1,950.00	\$2.93	\$952.25	\$4.00	\$1,300.00	\$1.71	\$555.75	\$3.00	\$975.00
432-5010	Mill Asphaltic Concrete Pavement, Variable Depth	SY	1,500	\$3.20	\$4,800.00	\$2.75	\$4,125.00	\$8.68	\$13,020.00	\$4.18	\$6,270.00	\$8.59	\$12,885.00	\$10.24	\$15,360.00	\$9.00	\$13,500.00
611-8050	Adjust Manhole to Grade	EA	2	\$995.00	\$1,990.00	\$1,200.00	\$2,400.00	\$850.00	\$1,700.00	\$675.63	\$1,351.26	\$1,400.00	\$2,800.00	\$2,577.00	\$5,154.00	\$1,500.00	\$3,000.00
653-1704	Thermoplastic Solid Traffic Stripe, 24-INCH, White	LF	30	\$4.85	\$145.50	\$5.65	\$169.50	\$8.91	\$267.30	\$5.50	\$165.00	\$8.00	\$240.00	\$4.68	\$140.40	\$5.50	\$165.00
653-3501	Thermoplastic Solid Traffic Stripe, 5 IN, White	LF	2,700	\$0.90	\$2,430.00	\$0.80	\$2,160.00	\$0.75	\$2,025.00	\$0.75	\$2,025.00	\$0.75	\$2,025.00	\$0.64	\$1,728.00	\$0.71	\$1,917.00
653-3502	Thermoplastic Solid Traffic Stripe, 5 IN, Yellow	LF	2,600	\$0.90	\$2,340.00	\$0.80	\$2,080.00	\$0.75	\$1,950.00	\$0.75	\$1,950.00	\$0.75	\$1,950.00	\$0.64	\$1,664.00	\$0.71	\$1,846.00
653-1804	Thermoplastic Solid Traffic Stripe, 8 IN, White	LF	200	\$2.85	\$570.00	\$2.75	\$550.00	\$3.45	\$690.00	\$2.63	\$526.00	\$3.50	\$700.00	\$2.28	\$456.00	\$2.50	\$500.00
653-3501	Thermoplastic Skip Traffic Stripe, 5-IN, White	GLF	200	\$0.67	\$134.00	\$0.70	\$140.00	\$1.15	\$230.00	\$0.67	\$134.00	\$1.25	\$250.00	\$0.57	\$114.00	\$0.65	\$130.00
654-1001	Raised Pavement Markers, TP-1	EA	70	\$4.80	\$336.00	\$5.70	\$399.00	\$5.75	\$402.50	\$5.58	\$390.60	\$6.00	\$420.00	\$4.75	\$332.50	\$5.25	\$367.50
001-3000	Private Utility Location	LS	1	\$ 2,150.00	\$2,150.00	\$4,500.00	\$4,500.00	\$500.00	\$500.00	\$1,762.50	\$1,762.50	\$3,900.00	\$3,900.00	\$2,500.00	\$2,500.00	\$15,000.00	\$15,000.00
Total Bid					\$387,040.25		\$327,269.50		\$364,542.57		\$365,766.08		\$370,596.34		\$382,933.15		\$433,673.40