



City Council Meeting - Final

March 11, 2024

7:00 PM

B. ATH2024-044 Request to Authorize Additional Services as requested by Baldwin Paving, 1014 Kenmill Drive NW, Marietta, GA, 30060, for soil remediation for Windy Hill Boulevard adjacent to the easterly bridge roadway in the amount of \$196,256.87 and authorize the Mayor to execute all related documents.



City of Smyrna

Issue Sheet

A Max Bacon
City Hall
2800 King Street
Smyrna, GA 30080

File Number: ATH2024-044

Agenda Date: 3/11/2024

In Control: City Council

File Type: Authorization

Agenda Section:
Formal Business

Agenda Number: B.

Department: Public Works

Agenda Title:

Request to Authorize Additional Services as requested by Baldwin Paving, 1014 Kenmill Drive NW, Marietta, GA, 30060, for soil remediation for Windy Hill Boulevard adjacent to the easterly bridge roadway in the amount of \$196,256.87 and authorize the Mayor to execute all related documents.

Ward 5 Councilmember - Susan Wilkinson

ISSUE AND BACKGROUND:

During regular inspection and testing prior to paving, the proof roll for the area under the easterly bridge was found to have inadequate bearing capacity, apparently due to a high water table. The geotechnical engineer hired to monitor and test for the project recommended several options for remediation – undercut and backfill with gravel/Geotech fabric, lime stabilization, and cement stabilization.

The PM and inspection team prefers to install cement stabilized subgrade because this would preclude time intensive undercut and replacement of unsuitable materials, and cement is a better stabilizing material than lime.

RECOMMENDATION / REQUESTED ACTION:

It is the recommendation of the Public Works Department to authorize Additional Services as requested by Baldwin Paving, 1014 Kenmill Drive NW, Marietta, GA, 30060, for soil remediation for Windy Hill Boulevard under the easterly bridge roadway in the amount of \$196,256.87 and authorize the Mayor to execute all related documents.



1014 Kenmill Dr. N.W., Marietta, GA 30060
770-425-9191 Fax: 770-425-0790

February 28, 2024

Thomas Robinson
Croy Engineering
200 Cobb Pkwy N #413
Marietta, GA 30062

Project: Windy Hill Blvd
RFP #20-016, Baldwin # - 159944

Subject: Undercut and Stabilization at STA 159+50 to 162+13 and STA 154+00 to 159+50

Dear Mr. Robinson,

Attached is the pricing to undercut and stabilize the area needed at STA 159+50 to 162+13 and STA 154+00 to 159+50 per GeoHydro's Daily Field report dated February 7th, 2024. Below is what was recommended per GeoHydro's report. Keep in mind these are just estimated QTYs and all items will be paid per unit price used in the field.

Item #	Item Description	UM	QTY	Unit Price	Extended Price
	Portland Soil Cement (12") – 40 lbs	SY	0.00	\$25.44	\$0.00
	Portland Soil Cement (18") – 80 lbs	SY	1,607.00	\$33.71	\$54,171.97
	Portland Soil Cement (18") – 106 lbs	SY	3,361.00	\$40.90	\$137,464.90
	Add'l Portland Cement (if needed)	TN	1.00	\$420.00	\$420.00
	Mobilization	EA	1.00	\$4,200.00	\$4,200.00
Total					196,256.87

Sincerely,

Baldwin Paving

Justin Oakes
Sr. Project Manager
Mobile No: 770-298-3914
Email: justin.oakes@baldwin-paving.com

Cc: Mark Roberts, Keith Rainey, Brian Newton, Shelley Thompson, Tyler Lankford, Madison Teague

Kennesaw

400 Chastain Center Boulevard
Suite 430
Kennesaw, GA 30144
Phone: (770) 426-7100

Client:

City of Smyrna
2190 Atlanta Road
Smyrna, GA 30080

Project:

200601.10
Windy Hill Blvd. Road Improvements
950 Windy Hill Road SE
Smyrna, GA 30080

Representative: Micah Lampton**Activity Date:** 02/07/2024**Weather:** Sunny**Temperature (F degrees):** 51-70**General Contractor:** Baldwin Paving**Observations:**

Geo-Hydro's representative arrived on site to perform a subgrade proofroll evaluation on the WBL between STA's 159 + 50 to 162 + 13. Representatives from Baldwin Paving and Cobb County were present during the proofroll. The evaluation was done using a fully loaded tandem axle dump truck along with extensive hand probing using a small diameter probe rod. A slight deflection of the subgrade was observed throughout the proofroll with the worst area being just before the east bridge underpass. Geo-Hydro recommends that the area be remediated to the following depths between the given STA's:

- STA 159 + 50 to 160 + 00 (24")
- STA 160 + 00 to 160 + 80 (18")
- STA 160 + 80 to 162 + 13 (12")

Geo-Hydro recommends the area be remediated in one of the following methods:

- Place a lining of Woven Geotextile fabric after excavating areas to the noted depth and place a layer of #34 stone as needed to reach subgrade elevation.
- Blend with soil cement at approximately 8-10% by dry weight of material
- Dry back with lime and reassess. We expect that 1 load of lime may dry approximately 1000 CY of soil.

Discrepancy Observed:

- Yes
 No

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This Report has been accepted by the following Geo-Hydro staff member, Jeremy Thompson on 02/09/2024.