



# CITY of NOVI CITY COUNCIL

**Agenda Item J**  
**August 14, 2017**

**SUBJECT:** Approval to award an amendment to the engineering services agreement with AECOM (URS Corporation-Great Lakes) for construction engineering services for the Meadowbrook Road Settlement project in the amount of \$28,840.48.

**SUBMITTING DEPARTMENT:** Department of Public Services, Engineering Division GDM

**CITY MANAGER APPROVAL:** 

<b>EXPENDITURE REQUIRED</b>	<b>\$ 28,840.48</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 18,075.00 (FY 2016-17 Budget Rollover)</b> <b>\$ 677,771.00 (FY 2017-18 Budget)</b> <b>\$ 695,846.00 Total Budget</b>
<b>LINE ITEM NUMBER</b>	<b>202-202.00-865.173</b>

## BACKGROUND INFORMATION:

There is a portion of Meadowbrook Road between Twelve Mile and Thirteen Mile Roads (just south of Burroughs Ave., along the MSU Tollgate Farm property) that has noticeable pavement deflection due to a structural issue with the underlying soils. This project will implement the recommendations of the geotechnical report, which includes the removal of the pavement and reconstructing the entire section of the roadway that has deflected.

AECOM assisted City staff with developing the engineering plans for this project. The plans were advertised for public bid on July 12, 2017. The construction phase engineering fees are determined using two components:

- 1) The contract administration fee, which is determined using the fee percentage in Exhibit B of the Agreement for Professional Engineering Services for Public Projects, and
- 2) The construction inspection fee determined using a cost per inspection (crew) day from Exhibit B of the consultant's agreement that is then multiplied by the number of days of inspection specified by the contractor.

The construction phase engineering fees for this project include a contract administration fee of \$12,840.48 (7.5% of the \$171,206.40 construction bid) and an inspection fee of \$16,000.00 (\$640 per crew day, multiplied by the 25 days provided in the contractor's bid) for a total fee of \$28,840.48.

The construction contract award is proposed for consideration elsewhere on this agenda. It is anticipated that this project will be substantially complete by the fall of 2017 with final completion and restoration by the late fall of 2017.

**RECOMMENDED ACTION:** Approval to award an amendment to the engineering services agreement with AECOM (URS Corporation-Great Lakes) for construction engineering services for the Meadowbrook Road Settlement project in the amount of \$28,840.48.

# Meadowbrook Road Reconstruction

Location Map



Project Area

Meadowbrook Rd


Map Author: J. Mathias  
Date: 6/24/17

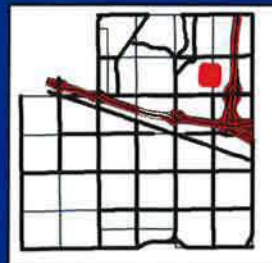
Amended By:  
Date:  
Department:

#### MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

#### Legend

 Roadway Reconstruction



#### City of Novi

Engineering Division  
Department of Public Services  
26300 Lee BeGole Drive  
Novi, MI 48375  
cityofnovi.org

Feet  
0 40 80 160 240  
1 inch = 208 feet





August 04, 2017

Mr. Joey Mathias  
City of Novi  
Engineering Department  
26300 Lee BeGole Drive  
Novi, MI 48375

Reference: Bid Analysis and Contract Award Recommendation  
Meadowbrook Road Reconstruction  
AECOM Project Number 60547640

Dear Mr. Mathias:

Attached is the Bid Tabulation for the above referenced project. Three bids were received and opened. This bid was less than the Engineer's Estimate. The following irregularity was noted in the bids:

There total bid for Springline Excavating, LLC, added up to \$191,509.00 rather than the \$209,509.00 shown in the submitted bid documents. This did not affect the apparent low bidder or the order of the three bids that were received.

The low bidder, Fonson Company, Inc., has successfully completed similar projects in Novi, Brighton, and Monroe County for the Michigan Department of Transportation. We also contacted references and they have performed satisfactorily on these projects. The bonding company listed in the Statement of Qualifications (Hylant Group, Inc., Lisa Wilmot is the agent) has a rating that exceeds the minimum requirements.

We recommend award of the contract to Fonson Company, Inc., for the Bid Amount, excluding crew day costs, of \$171,206.40.

Please feel free to contact me if you need anything else or wish to discuss the project.

Sincerely,

Sean Kelsch, P.E.  
Project Manager

cc: George D. Melistas, City of Novi  
Mark Koskinen, AECOM

**City of Novi  
Meadowbrook Road Reconstruction  
Bid Tabulation  
8/4/2017**

Item No.	Item Description	Unit	As Directed	Road	Total	Engineer's Estimate		Fonson Company		Sortingsline Excavating		Pre-Line Asphalt Paving	
						Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost Base Bid	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
1	Mobilization (10%)	LSUM	1		1	15,715.14	\$ 15,715.14	\$ 17,500.00	\$ 17,500.00	\$ 2,000.00	\$ 2,000.00	\$ 20,000.00	\$ 20,000.00
2	Pre-Construction Audio-Visual	LSUM	1		1	1,000.00	\$ 1,000.00	\$ 785.00	\$ 785.00	\$ 1,200.00	\$ 1,200.00	\$ 800.00	\$ 800.00
3	Remove HMA Surface	Syd		784	784	\$ 5.00	\$ 3,920.00	\$ 7.90	\$ 6,235.60	\$ 10.00	\$ 7,840.00	\$ 14.00	\$ 10,986.00
4	Curb and Gutter, Rem	R		400	400	\$ 10.00	\$ 4,000.00	\$ 7.85	\$ 3,140.00	\$ 12.00	\$ 4,800.00	\$ 12.00	\$ 4,800.00
5	Sidewalk, Rem	Syd		8	8	\$ 8.00	\$ 64.00	\$ 37.00	\$ 296.00	\$ 30.00	\$ 240.00	\$ 70.00	\$ 560.00
6	Roadway Grading	Sta		2	2	\$ 3,000.00	\$ 6,000.00	\$ 6,770.00	\$ 13,540.00	\$ 7,700.00	\$ 15,400.00	\$ 8,500.00	\$ 17,000.00
7	Subgrade Undercutting, Type II	Cyd		100	100	\$ 50.00	\$ 5,000.00	\$ 25.00	\$ 2,500.00	\$ 32.00	\$ 3,200.00	\$ 10.00	\$ 1,000.00
8	Silt Fence	R		400	400	\$ 2.00	\$ 800.00	\$ 3.75	\$ 1,500.00	\$ 3.00	\$ 1,200.00	\$ 3.00	\$ 1,200.00
9	Crbs and Gutter Inlet Filter	Ea		2	2	\$ 150.00	\$ 300.00	\$ 110.00	\$ 220.00	\$ 150.00	\$ 300.00	\$ 100.00	\$ 200.00
10	Tensar TX5 Geogrid	Syd		658	658	\$ 8.00	\$ 5,264.00	\$ 5.75	\$ 3,783.50	\$ 4.00	\$ 2,632.00	\$ 5.50	\$ 3,619.00
11	Geosynthetic Paving Fabric	Syd		536	536	\$ 8.00	\$ 4,304.00	\$ 11.00	\$ 5,918.00	\$ 10.00	\$ 5,360.00	\$ 10.50	\$ 5,649.00
12	6A Stone, 12 inch, for Stabilization	Syd		536	536	\$ 19.00	\$ 10,184.00	\$ 26.80	\$ 14,418.40	\$ 20.00	\$ 10,720.00	\$ 20.00	\$ 10,720.00
13	Aggregate Base, 21AA Limestone, 6 inch	Syd		184	184	\$ 10.00	\$ 1,840.00	\$ 18.80	\$ 3,459.20	\$ 10.00	\$ 1,840.00	\$ 25.00	\$ 4,600.00
14	Aggregate Base, 21AA Limestone, 10 inch	Syd		682	682	\$ 13.00	\$ 8,986.00	\$ 17.10	\$ 11,653.20	\$ 15.00	\$ 10,230.00	\$ 16.00	\$ 11,072.00
15	Trench Undercut and Backfill	Cyd		25	25	\$ 30.00	\$ 1,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Dr Structure, 48 inch dia	Ea		1	1	\$ 1,800.00	\$ 1,800.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	Dr Structure Cover, Type B	Ea		1	1	\$ 750.00	\$ 750.00	\$ 590.00	\$ 590.00	\$ 425.00	\$ 425.00	\$ 600.00	\$ 600.00
18	Dr Structure Cover, Adj. Case 1	Ea		1	1	\$ 450.00	\$ 450.00	\$ 1,250.00	\$ 1,250.00	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 800.00
19	DPW Structure Cover, Adj. Case 1	Ea		1	1	\$ 500.00	\$ 500.00	\$ 1,250.00	\$ 1,250.00	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 800.00
20	Point Up Drainage Structure	Ea		1	1	\$ 300.00	\$ 300.00	\$ 195.00	\$ 195.00	\$ 250.00	\$ 250.00	\$ 800.00	\$ 800.00
21	Reconstruct Drainage Structure	R		1	1	\$ 200.00	\$ 200.00	\$ 475.00	\$ 475.00	\$ 350.00	\$ 350.00	\$ 500.00	\$ 500.00
22	Underdrain, Subgrade, Open-Graded, 6 inch	R		400	400	\$ 12.00	\$ 4,800.00	\$ 18.60	\$ 7,440.00	\$ 19.00	\$ 7,200.00	\$ 20.00	\$ 8,000.00
23	HMA, SE10	Ton		92	92	\$ 150.00	\$ 13,800.00	\$ 134.00	\$ 12,328.00	\$ 150.00	\$ 13,800.00	\$ 190.00	\$ 17,490.00
24	HMA, SE10	Ton		137	137	\$ 150.00	\$ 20,550.00	\$ 134.00	\$ 18,358.00	\$ 150.00	\$ 20,550.00	\$ 145.00	\$ 19,855.00
25	HMA Approach	Ton		14	14	\$ 150.00	\$ 2,100.00	\$ 134.00	\$ 1,876.00	\$ 200.00	\$ 2,800.00	\$ 350.00	\$ 4,900.00
26	Curb and Gutter, Conc, Det C4	R		400	400	\$ 20.00	\$ 8,000.00	\$ 24.00	\$ 9,600.00	\$ 24.00	\$ 9,600.00	\$ 25.00	\$ 10,000.00
27	Sidewalk, Conc, 4 inch	Sft		68	68	\$ 7.00	\$ 482.00	\$ 5.00	\$ 330.00	\$ 5.00	\$ 330.00	\$ 5.00	\$ 330.00
28	Remove and Replace Decorative Fence	R		200	200	\$ 20.00	\$ 4,000.00	\$ 45.80	\$ 9,160.00	\$ 35.00	\$ 7,000.00	\$ 52.00	\$ 10,400.00
29	Barricade, Type III, High Intensity, Lighted, Fum	Ea		13	13	\$ 100.00	\$ 1,300.00	\$ 65.00	\$ 845.00	\$ 75.00	\$ 975.00	\$ 75.00	\$ 975.00
30	Barricade, Type III, High Intensity, Lighted, Oper	Ea		13	13	\$ 6.00	\$ 78.00	\$ 5.20	\$ 67.60	\$ 1.00	\$ 13.00	\$ 1.00	\$ 13.00
31	Channelizing Device, 42 inch, Fum	Ea		30	30	\$ 11.64	\$ 349.20	\$ 11.44	\$ 343.20	\$ 20.00	\$ 600.00	\$ 20.00	\$ 600.00
32	Channelizing Device, 42 inch, Oper	Ea		30	30	\$ 0.84	\$ 25.20	\$ 1.04	\$ 31.20	\$ 1.00	\$ 30.00	\$ 1.00	\$ 30.00
33	Lighted Arrow, Type C, Fum	Ea		2	2	\$ 380.00	\$ 760.00	\$ 520.00	\$ 1,040.00	\$ 485.00	\$ 970.00	\$ 500.00	\$ 1,000.00
34	Lighted Arrow, Type C, Oper	Ea		2	2	\$ 30.00	\$ 60.00	\$ 52.00	\$ 104.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00
35	Minor Traffic Devices	LSUM		1	1	\$ 5,000.00	\$ 5,000.00	\$ 4,350.00	\$ 4,350.00	\$ 5,500.00	\$ 5,500.00	\$ 5,000.00	\$ 5,000.00
36	Post Mktg, Longit, 6 inch or Less Width, Rem	R		300	300	\$ 0.50	\$ 150.00	\$ 0.85	\$ 255.00	\$ 1.00	\$ 300.00	\$ 5.00	\$ 1,500.00
37	Post Mktg, Wet Reflective, Type R, Tape, 4 inch, White	R		180	180	\$ 3.50	\$ 630.00	\$ 1.85	\$ 333.00	\$ 2.00	\$ 360.00	\$ 2.00	\$ 360.00
38	Post Mktg, Wet Reflective, Type R, Tape, 4 inch, Yellow	R		180	180	\$ 3.60	\$ 648.00	\$ 1.95	\$ 351.00	\$ 2.00	\$ 360.00	\$ 2.00	\$ 360.00
39	Plastic Drum, High Intensity, Fum	Ea		20	20	\$ 15.87	\$ 317.40	\$ 13.52	\$ 270.40	\$ 20.00	\$ 400.00	\$ 20.00	\$ 400.00
40	Plastic Drum, High Intensity, Oper	Ea		20	20	\$ 0.55	\$ 11.00	\$ 1.04	\$ 20.80	\$ 1.00	\$ 20.00	\$ 1.00	\$ 20.00
41	Sign, Type B, Temp, Prismatic, Fum	Sft		985	985	\$ 3.70	\$ 3,644.50	\$ 3.12	\$ 3,073.20	\$ 4.00	\$ 3,940.00	\$ 4.00	\$ 3,940.00
42	Sign, Type B, Temp, Prismatic, Oper	Sft		985	985	\$ 0.25	\$ 246.25	\$ 0.28	\$ 275.80	\$ 1.00	\$ 985.00	\$ 0.81	\$ 798.85
43	Sign, Type B, Temp, Prismatic, Special, Fum	Sft		100	100	\$ 6.00	\$ 600.00	\$ 3.38	\$ 338.00	\$ 6.00	\$ 600.00	\$ 9.00	\$ 900.00
44	Sign, Type B, Temp, Prismatic, Special, Oper	Sft		100	100	\$ 0.40	\$ 40.00	\$ 0.28	\$ 28.00	\$ 1.00	\$ 100.00	\$ 0.81	\$ 81.00
45	Traffic Regulator Control	LSUM		1	1	\$ 10,000.00	\$ 10,000.00	\$ 500.00	\$ 500.00	\$ 7,000.00	\$ 7,000.00	\$ 8,000.00	\$ 8,000.00
46	Pedestrian Type II Barricade, Temp	Ea		8	8	\$ 70	\$ 560.00	\$ 78	\$ 624.00	\$ 90	\$ 720.00	\$ 200	\$ 1,600.00
47	Sign, Portable, Changeable Message, NTCIP-Compliant	Ea		2	2	\$ 3,000	\$ 6,000.00	\$ 1,300	\$ 2,600.00	\$ 4,000	\$ 8,000.00	\$ 4,000	\$ 8,000.00
48	Sign, Portable, Changeable Message, NTCIP-Compliant	Ea		2	2	\$ 750.00	\$ 1,500.00	\$ 52.00	\$ 104.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00
49	Fence, Protective	R		50	50	\$ 6.00	\$ 300.00	\$ 6.00	\$ 300.00	\$ 6.00	\$ 300.00	\$ 6.00	\$ 300.00
50	Maintenance Gravel, LM	Cyd		100	100	\$ 15.00	\$ 1,500.00	\$ 15.00	\$ 1,500.00	\$ 42.00	\$ 4,200.00	\$ 50.00	\$ 5,000.00
51	Post Mktg, Sprayable Thermopt, 4 inch, Yellow	R		770	770	\$ 0.50	\$ 385.00	\$ 1.50	\$ 1,155.00	\$ 1.50	\$ 1,155.00	\$ 2.00	\$ 1,540.00
52	Surface Restoration	LSUM		1	1	\$ 5,000.00	\$ 5,000.00	\$ 4,500.00	\$ 4,500.00	\$ 8,800.00	\$ 8,800.00	\$ 3,800.00	\$ 3,800.00
53	Crew Days	Day				\$ 640.00	\$ 6,400.00	\$ 640.00	\$ 6,400.00	\$ 12,800.00	\$ 12,800.00	\$ 640.00	\$ 6,400.00
	Contingency for Estimate					\$ 18,781.15	\$ 18,781.15						
	<b>Total Cost</b>						<b>\$ 187,841.71</b>	<b>Total Cost</b>	<b>\$ 187,386.68</b>	<b>Total Cost</b>	<b>\$ 191,889.89</b>	<b>Total Cost</b>	<b>\$ 226,863.86</b>

\$ XXXXX Indicates Corrected Entry and Total Cost\* Indicates Corrected Total

Award Amount (Excludes Crew Days)

\$ 171,206.40