City of Birmingham
A Walkable Community

MEMORANDUM

ENGINEERING DEPARTMENT

DATE: **January 15, 2015**

TO: **Joseph A. Valentine, City Manager**

FROM: **Brendan Cousino, Assistant City Engineer**
Paul O'Meara, City Engineer

SUBJECT: **Quarton Road & Chesterfield Intersection Improvements**
Contract #11-15(P) Contract Award

On December 18, 2014 the Engineering Department opened bids on the above referenced project. Attached are the bid results. Two companies submitted bids for this project. The low bidder was Florence Cement Company, of Shelby Township, MI with their bid of $611,303.14. The engineer's estimate for this project was $493,000. (The low bid for this same project when bid in August, 2014, was $740,000. The new price represents a savings of over 17%.)

Florence Cement Company has performed a significant amount of work on several City projects over the past few years, both as a subcontractor and a prime contractor. They constructed the concrete pavement on both the Mohegan & Kennesaw paving project and the N. Eton Rd. paving project in 2014, as well as on the Cole Ave. reconstruction project in 2013. They were also the prime contractor for the City's 2014 Asphalt Street Resurfacing project in 2014, which included resurfacing W. Frank St. They have also performed similar asphalt work for other communities, including Royal Oak, Troy & Ferndale. We are confident that they are qualified to perform satisfactorily on this contract.

This project is to construct a new center left turn lane in Quarton Road to allow through traffic on Quarton Road to bypass cars that are queuing to turn left onto Chesterfield Ave. – both north and south. This will move the left turn vehicles out of the through lanes of the road, which will help to reduce the congestion on this road, and decrease the number of rear end and angled collisions. The portion of Chesterfield Ave. to the south of Quarton Rd. will be re-aligned to line up with Chesterfield to the north of Quarton, which will improve the safety and visibility at that intersection.

The contract requires that the Contractor start work on this project within 2 weeks of the end of spring seasonal load restrictions in Oakland County (aka "Frost Laws"). This has typically occurred around the beginning of April, although there is certainly a lot of variability. The contractor is anticipating approximately 62 working days to complete the work on this project.

Several agencies are involved in the funding of this project. In order to ensure that costs are distributed as fairly as possible, the attached list of anticipated expenditures and revenues has been assembled. Starting at the top, the contractor's bid price of $611,303.14 has been reduced by a $52,000 Road Closure Assessment. The assessment is a pay item structured to encourage the contractor to organize the job and be as efficient as possible. In order to get the

project built as quickly as possible, the Road Commission is allowing a complete closure. (The detour route will direct eastbound vehicles to Lahser Rd., Lone Pine Rd., and returned back via Woodward Ave. Westbound traffic will use the same roads in the opposite direction.) Each day the road is closed, $1,000 will be charged against this pay item. The contractor has suggested that they will need to close the road for 52 calendar days. If they beat that time, a small bonus will be paid back. Likewise, if they exceed 52 days, the assessment will grow.

On top of the estimated construction cost of $559,303.14, engineering costs including design, inspection, and testing services is expected to cost $96,860. The total project cost is estimated at $656,163.14.

For revenue sources, the State of Michigan has offered $432,800 through its special one-time program known as Roads & Risks Reserve Funds. The City has already received this payment. County Tri-Party Program funding can also be used for this project. Based on the original cost estimate, the County has agreed to fund a total of $14,066, matched by the Road Commission in the same amount. Each of the two cities must pay the remaining one-third, as well as any remaining overage. Since the project is equally in Birmingham and Bloomfield Hills, each City will be responsible for 50% of the local Tri-Party share ($7,033), as well as the remaining difference ($90,581.57). The total estimated cost of this project to the City of Birmingham is $97,614.57.

The City of Bloomfield Hills reviewed this project at their meeting on January 13, 2015, and approved expenditure of the funds required for their contribution on this project. A copy of the letter from HRC that they reviewed at their meeting is included for your reference.

It is recommended that the Quarton Road & Chesterfield Intersection Improvements Project, Contract #11-15(P), be awarded to Florence Cement Company, of Shelby Township, MI in the amount of $611,303.14, with engineering, inspection, and testing costs of approximately $96,860, for a total project cost not to exceed $656,162.00.

SUGGESTED RESOLUTION:

To award the Quarton Road & Chesterfield Intersection Improvements Project, Contract #11-15(P), be awarded to Florence Cement Company, of Shelby Township, MI in the amount of $611,303.14 to be paid out of account number 202-449.001-985.6700. Further, to approve the appropriations and budget amendments as follows:

Major Street Fund

Revenues:

Draw from fund balance #202-000.000-400.0000	$ 97,615.00
From State Grants #202-000.000-540.0000	$ 432,800.00
From Oakland County #202-000.000-583.0005	$ 14,066.00
From Road Commission for Oakland County #202-000.000-583.0005	$ 14,066.00
From Bloomfield Hills #202-000.000-583.0006	$ 97,615.00
Total Revenue Adjustments	$ 656,162.00

Expenditures:

Public Improvements #202-449.001-985.6700	$ 656,162.00
Total Expenditure Adjustments	$ 656,162.00

CITY OF BIRMINGHAM

QUARTON RD. & CHESTERFIELD AVE. INTERSECTION IMPROVEMENTS
CONTRACT #11-15(P)

BID SUMMARY

December 18, 2014 - 2:00 PM

Company Name	5% Bid Security	Total Bid
Florence Cement Co.	X	$ 611,303.14
DiPonio Contracting	X	$ 687,592.30

QUARTON ROAD & CHESTERFIELD INTERSECTION IMPROVEMENTS PROJECT
CONTRACT #11-15(P)
PROJECT FUNDING ANALYSIS
December 19, 2014

PROJECT COSTS

CONSTRUCTION COSTS				
Contractor's Total Bid (Florence Cement Co.)[1]	$	611,303.14		
Road Closure Assessments[2]	$	(52,000.00)		
TOTAL CONSTRUCTION COSTS			**$**	**559,303.14**
ENGINEERING, INSPECTION & TESTING				
Design (HRC)	$	57,860.00		
Inspection (City Inspector)	$	28,000.00		
Testing (2% of Const. Costs)	$	11,000.00		
TOTAL ENGINEERING, INSPECTION & TESTING COSTS			**$**	**96,860.00**
TOTAL PROJECT COSTS			**$**	**656,163.14**

SECURED PROJECT FUNDING

GRANTS				
Roads & Risks Reserve Funds	$	432,800.00		
TOTAL GRANTS			**$**	**432,800.00**
TRI PARTY FUNDING				
RCOC Share	$	14,066.00		
Oakland County Share	$	14,066.00		
Birmingham Share	$	7,033.00		
Bloomfield Share	$	7,033.00		
TOTAL TRI PARTY FUNDING			**$**	**42,200.00**
TOTAL SECURED FUNDING			**$**	**475,000.00**

REMAINING COSTS			**$**	**181,163.14**

Birmingham Share (1/2)	**$**	**90,581.57**
Bloomfield Hills Share (1/2)	**$**	**90,581.57**
Total Birmingham Share	**$**	**97,614.57**
Total Bloomfield Hills Share	**$**	**97,614.57**

[1] As-read low bid from bid opening on December 18, 2014.

[2] Assumed $10,000 Bonus for Early Completion

HRC 100 YEARS
CONSULTING ENGINEERS SINCE 1915

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January 8, 2015

City of Bloomfield Hills
45 East Long Lake Road
Bloomfield Hills, Michigan 48304

Attn: Mr. Jay Cravens, City Manager

Re: Intersection Improvement Funding — HRC Job No. 20140028
Quarton and Chesterfield Roads

Dear Mr. Cravens:

Over the years, the Cities of Bloomfield Hills and Birmingham reviewed road needs with the RCOC at biannual strategy and planning meetings. The congestion on Quarton Road has been identified and discussed. Further, the May 2009 Master Plan for the City identified several areas of congestion mainly on County or State Roads. This intersection is one of the identified areas. Further, reduction of congestion at these locations was classified as a mid time frame priority. The Master Plan also calls out High Crash Road Segments which again includes this intersection.

Complete project funding through the County's Tri Party program is not feasible due to the limited funds in that program. In 2009-2010, there was a call for projects to be added to the Federal Aid funding list. This program funds road improvements on eligible roads at 80% federal/state share and 20% local share but does not include design costs. The remaining 20% can be funded with Tri Party funds. The Cities discussed this funding source and a joint funding application was made. In seeking these funds, this project was compared to many others in the County. While this project scored well for existing congestion, there have (fortunately) not been many severe injury or fatality crashes. Even though the number of crashes has been high relative to other intersections in the City, it did not score as high as other intersections in the County on that criterion. Thus, while improvements at this intersection were kept on the future project list, it was not funded. All parties have since been looking for other funding opportunities.

In January of 2014, the Cities were notified that the State Legislature moved $115 million in surplus State funding into a Roads & Risk Reserve fund and selected a number of projects from across the State to be directly funded. The improvements at Quarton and Chesterfield were approved for $432,800 of funding.

Project Scope

The proposed improvements call for a new center left turn lane for both northbound Chesterfield into the City and southbound in Birmingham. This will move the left turn vehicles out of the traveled portion of the road; relieving the congestion and better protecting these vehicles from rear end and angled collisions.

Having heard several concerns from the City, Birmingham residents, and the Birmingham Commission, the previously proposed right hand turn lanes were removed from the project, leaving only the minimal tapers, and the alignment modified to minimize the improvement footprint.

Birmingham authorized their traffic engineer to review the intersection and further define the value of the improvements as well as offer their professional opinion as to any expected increase in thru traffic turning onto Chesterfield. Their report was previously provided and is summarized as follows:

1) The proposed addition of a center lane for left turns on Quarton at Chesterfield will significantly reduce traffic queues in the through traffic stream. In addition, the reduction in traffic queues will also work to correct nearly 65 percent of the crashes that are occurring at this intersection.

2) The proposed improvement will have virtually no impact on the delays associated with the traffic movements to and from Chesterfield from Quarton. Thus, the improvement will not promote more traffic on Chesterfield.

Project Funding and Costs

When selecting projects for the Roads & Risk Reserve Fund, it is our belief that the legislators used the existing Federal Aid project lists and costs. Therefore, even though all phases of the project including design are eligible under this program, not all costs were previously included. The estimated project costs used for the previously approved cost sharing agreements was $475,000.

Subtracting off the grant amount of $432,800, a local share of $42,200 was required. The cost sharing agreement calls for this and any additional ineligible costs to be evenly split ($21,200) between Bloomfield Hills and Birmingham. Under the approved Tri Party Agreement, these costs would be split again, lowering the anticipated City of Bloomfield Hills contribution to approximately $7,000.

The project was originally bid in August. The low bid was $740,872 which includes approximately $87,000 in inspection crew day and road closure assessments for a construction cost of $653,800. These bids were rejected.

The project was rebid in December. The low bid was $611,300 which includes approximately $62,000 in road closure assessments for a construction cost of $549,300.

While the rebids significantly lowered the project costs, the total project and thus the City's share is more than anticipated. This is shown on the attached breakdown.

Options

1. The City has a 2015 Tri Party balance of approximately $17,500 it could apply to this project, and then fund the remainder with one of the following options.

2. As the City contemplates the sale of bonds to pay for the 2015 Road Improvement Program - Vaughan and South Cranbrook Roads, the City's share could be included in that financing. As indicated under separate cover,

the total costs for that project are projected to be well under estimate.

3. The 2014 Road Improvement Program was also under budget, so funds are available in the City's Road Fund(s) that could be used for this project.

4. The City can vote to reject these bids and again try to rebid the project, if MDOT agrees to hold the funding.

5. The City can vote to not proceed with the project and Birmingham will then return the $432,800 grant.

The City of Birmingham will be considering their position later this month but is looking for direction from and is contingent upon Bloomfield Hills. Birmingham staff is optimistic that the City will proceed with the project if Bloomfield Hills elects to do so.

Summary

The additional costs, as indicated above, warrant a reconsideration of this project by the City Commission. However, this project still represents a unique opportunity to partner with the City of Birmingham, RCOC, Oakland County, and the State to fund a necessary improvement at the lowest possible cost to the City. It is also our opinion that in reducing congestion along Quarton by improving this intersection now, additional or higher impact improvements can be deferred.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

James F. Burton, P.E.
Associate

jfb
Enclosure
pc: Bloomfield Hills; Commissioners, Ms. Amy Burton
Birmingham; Mr. Paul O'Meara
Mr. Mike Kane
HRC; T. Biehl, W. Alix, C. Hart, File

Quarton Rd. & Chesterfield Ave. Intersection Improvements Project - Contract #11-15(P)
Bid Tabulation

				Florence Cement Co.		DiPonio Contracting	
No.	**ITEMS FOR BID**	**QTY**	**UNITS**	**UNIT PRICE**	**AMOUNT**	**QTY**	**AMOUNT**
	Sewer Pay Items						
1	Sewer, Rem, Less than 24 inch	25	LF	$ 24.00	$ 600.00	$ 10.00	$ 250.00
2	Culv, End Sect, Conc, 12 inch	1	EA	$ 520.00	$ 520.00	$ 800.00	$ 800.00
3	Culv, Cl F, 12 inch, RCOC	47	LF	$ 59.00	$ 2,773.00	$ 85.00	$ 3,995.00
4	Sewer, Cl IV, 12 inch Tr Det B	140	LF	$ 59.00	$ 8,260.00	$ 100.00	$ 14,000.00
5	Sewer Tap, 12 Inch	1	EA	$ 480.00	$ 480.00	$ 800.00	$ 800.00
6	Sewer Bulkhead, 12 inch	1	EA	$ 200.00	$ 200.00	$ 500.00	$ 500.00
7	Dr Structure Cover, Adj, Case 1	1	EA	$ 500.00	$ 500.00	$ 800.00	$ 800.00
8	Dr Structure Cover, Adj, Case 2	2	EA	$ 250.00	$ 500.00	$ 500.00	$ 1,000.00
9	Dr Structure Cover, Type B	4	EA	$ 360.00	$ 1,440.00	$ 700.00	$ 2,800.00
10	Dr Structure Cover, Type G	3	EA	$ 320.00	$ 960.00	$ 600.00	$ 1,800.00
11	Dr Structure Cover, Type J	2	EA	$ 750.00	$ 1,500.00	$ 1,200.00	$ 2,400.00
12	Dr Structure Lead, Cleaning, 12 inch	66	LF	$ 10.00	$ 660.00	$ 15.00	$ 990.00
13	Dr Structure, 24 inch dia	4	EA	$ 1,200.00	$ 4,800.00	$ 1,000.00	$ 4,000.00
14	Dr Structure, 48 inch dia	1	EA	$ 1,800.00	$ 1,800.00	$ 2,000.00	$ 2,000.00
15	Dr Structure, Adj, Add Depth	7	VF	$ 250.00	$ 1,750.00	$ 200.00	$ 1,400.00
16	Dr Structure, Cleaning	2	EA	$ 125.00	$ 250.00	$ 300.00	$ 600.00
17	Dr Structure, Tap, 12 inch	2	EA	$ 480.00	$ 960.00	$ 800.00	$ 1,600.00
18	Structure, Adjust	2	EA	$ 250.00	$ 500.00	$ 800.00	$ 1,600.00
19	Sanitary Structure, Adjust	1	EA	$ 670.00	$ 670.00	$ 900.00	$ 900.00
20	Structure Adjustment EJ Ring	4	EA	$ 300.00	$ 1,200.00	$ 500.00	$ 2,000.00
	SUBTOTAL SEWER PAY ITEMS				**$ 30,323.00**		**$ 44,235.00**
	Paving Pay Items						
21	Sidewalk, Rem	10	SY	$ 24.00	$ 240.00	$ 20.00	$ 200.00
22	Embankment, CIP	1127	CY	$ 28.00	$ 31,556.00	$ 25.00	$ 28,175.00
23	Excavation, Earth	1735	CY	$ 19.00	$ 32,965.00	$ 40.00	$ 69,400.00
24	Excavation, Earth, RCOC	150	SY	$ 35.00	$ 5,250.00	$ 22.00	$ 3,300.00
25	Subgrade Undercutting, 3 by 1	750	CY	$ 55.00	$ 41,250.00	$ 50.00	$ 37,500.00
26	Aggregate Base, 4 inch, CIP, 21AA, RCOC	182	SY	$ 11.00	$ 2,002.00	$ 16.00	$ 2,912.00
27	Aggregate Base, 6 inch, CIP, 21AA, RCOC	225	SY	$ 18.00	$ 4,050.00	$ 17.00	$ 3,825.00
28	Aggregate Base, 8 inch, CIP, 21 AA, RCOC	3616	SY	$ 11.00	$ 39,776.00	$ 19.00	$ 68,704.00
29	Maintenance Gravel	11	TON	$ 29.00	$ 319.00	$ 35.00	$ 385.00
30	Shoulder, Cl I, 8 inch	624	SY	$ 17.00	$ 10,608.00	$ 25.00	$ 15,600.00
31	Biaxial, Geogrid	750	SY	$ 2.75	$ 2,062.50	$ 6.00	$ 4,500.00
32	Cold Milling HMA Surface	4058	SY	$ 2.50	$ 10,145.00	$ 3.00	$ 12,174.00
33	HMA Surface, Rem	980	SY	$ 6.00	$ 5,880.00	$ 15.00	$ 14,700.00
34	Edge Trimming	2403	LF	$ 3.70	$ 8,891.10	$ 3.50	$ 8,410.50
35	Hand Patching	70	TON	$ 198.00	$ 13,860.00	$ 150.00	$ 10,500.00
36	HMA, 2C	504	TON	$ 106.00	$ 53,424.00	$ 86.00	$ 43,344.00
37	HMA, 3C	345	TON	$ 106.00	$ 36,570.00	$ 98.00	$ 33,810.00
38	HMA, 13A	566	TON	$ 108.00	$ 61,128.00	$ 98.00	$ 55,468.00
39	Joint, HMA Plane of Weakness	2403	LF	$ 2.08	$ 4,998.24	$ 3.00	$ 7,209.00
40	Corrugated HMA Divider, Depressed	430	LF	$ 8.00	$ 3,440.00	$ 12.00	$ 5,160.00
41	HMA Approach (Residential)	37	TON	$ 206.00	$ 7,622.00	$ 170.00	$ 6,290.00
42	Curb and Gutter, Conc, Det B2	660	LF	$ 27.00	$ 17,820.00	$ 21.00	$ 13,860.00
43	Spillway, Cone	19	LF	$ 40.00	$ 760.00	$ 40.00	$ 760.00
44	Detachable Warning Surface	20	LF	$ 63.50	$ 1,270.00	$ 64.00	$ 1,280.00
45	Sidewalk Ramp, Conc, 6 inch	311	SF	$ 5.50	$ 1,710.50	$ 6.00	$ 1,866.00
46	Sidewalk, Conc, 4 inch	1042	SF	$ 3.75	$ 3,907.50	$ 4.00	$ 4,168.00
	SUBTOTAL PAVING PAY ITEMS				**$ 401,504.84**		**$ 453,500.50**

	GENERAL PAY ITEMS						
47	Mobilization Max, 10%	1	LS	$ 60,000.00	$ 60,000.00	$ 50,000.00	$ 50,000.00
48	Tree, Rem, 19 inch to 36 inch	1	EA	$ 875.00	$ 875.00	$ 2,200.00	$ 2,200.00
49	Tree, Rem, 6 inch to 18 inch	9	EA	$ 225.00	$ 2,025.00	$ 750.00	$ 6,750.00
50	Guardrail, Rem	125	LF	$ 3.00	$ 375.00	$ 5.00	$ 625.00
51	Erosion Control, Check Dam, Stone	8	LF	$ 60.00	$ 480.00	$ 85.00	$ 680.00
52	Erosion Control, Silt Fence, RCOC	3,350	65	$ 1.00	$ 3,350.00	$ 2.00	$ 6,700.00
53	Erosion Control, Inlet Protection, Fabric Drop, RCOC	12	EA	$ 65.00	$ 780.00	$ 120.00	$ 1,440.00
54	Guardrail, Type B	100	lf	$ 16.50	$ 1,650.00	$ 15.00	$ 1,500.00
55	Guardrail Approach Terminal, Type 1 B	2	EA	$ 1,785.00	$ 3,570.00	$ 4,500.00	$ 9,000.00
56	Guardrail, Reflector	4	EA	$ 5.00	$ 20.00	$ 15.00	$ 60.00
57	Post, Mailbox	1	EA	$ 190.00	$ 190.00	$ 145.00	$ 145.00
58	Post, Steel, 3lb	107	LF	$ 5.25	$ 561.75	$ 5.25	$ 561.75
59	Sign, Type III, Erect, Salv	13	EA	$ 45.00	$ 585.00	$ 45.00	$ 585.00
60	Sign, Type III, Rem	14	EA	$ 5.00	$ 70.00	$ 5.00	$ 70.00
61	Post, Flexible Delineator, RCOC	4	EA	$ 30.00	$ 120.00	$ 30.00	$ 120.00
62	Street Sign Post	2	EA	$ 75.00	$ 150.00	$ 75.00	$ 150.00
63	Pavt Mrkg. Ovly Cold Plastic, 12 inch, Crosswalk	72	LF	$ 4.00	$ 288.00	$ 4.00	$ 288.00
64	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	2,317	LF	$ 0.55	$ 1,274.35	$ 0.55	$ 1,274.35
65	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	3,070	LF	$ 0.55	$ 1,688.50	$ 0.55	$ 1,688.50
66	Pavt Mrkg, Cold Plastic, Left-Trun Arrow Symbol	2	EA	$ 165.00	$ 330.00	$ 165.00	$ 330.00
67	Barricade, Type III, High Intensity, Double Sided, Lighted, Frun	11	EA	$ 80.00	$ 880.00	$ 80.00	$ 880.00
68	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	11	EA	$ 0.01	$ 0.11	$ 0.01	$ 0.11
69	Minor Traf Devices	1	LS	$ 1,400.00	$ 1,400.00	$ 26,000.00	$ 26,000.00
70	Plastic Drum, High Intensity, Furn	50	EA	$ 18.00	$ 900.00	$ 18.00	$ 900.00
71	Plastic Drum, High Intensity, Oper	50	EA	$ 0.01	$ 0.50	$ 0.01	$ 0.50
72	Sign Cover	1	EA	$ 30.00	$ 30.00	$ 30.00	$ 30.00
73	Sign, Type B, Temp, Prismatic, Furn	416	SF	$ 4.00	$ 1,664.00	$ 4.00	$ 1,664.00
74	Sign, Type B, Temp, Prismatic, Oper	416	SF	$ 0.01	$ 4.16	$ 0.01	$ 4.16
75	Sign, Type B, Temp, Prismatic, Special, Furn	393	SF	$ 7.00	$ 2,751.00	$ 7.00	$ 2,751.00
76	Sign, Type B, Temp, Prismatic, Special Oper	393	SF	$ 0.01	$ 3.93	$ 0.01	$ 3.93
77	Traffic Regulator Control	1	LS	$ 3,500.00	$ 3,500.00	$ 7,800.00	$ 7,800.00
78	Riprap, Plain, RCOC	100	SY	$ 40.00	$ 4,000.00	$ 60.00	$ 6,000.00
79	Turf Establishment, Performance, RCOC	2,601	SY	$ 9.00	$ 23,409.00	$ 5.50	$ 14,305.50
80	Monument Box Adjust	1	EA	$ 550.00	$ 550.00	$ 350.00	$ 350.00
81	Road Closure Assessment	$ 1,000.00	DAYS	$ 62.00	$ 62,000.00	$ 45.00	$ 45,000.00
	SUBTOTAL GENERAL PAY ITEMS				**$ 179,475.30**		**$ 189,856.80**
	TOTAL BID				**$ 611,303.14**		**$ 687,592.30**