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CITY of NOVI CITY COUNCIL

**Agenda Item 3
June 4, 2012**

SUBJECT: Approval to award a construction contract for the 2012 Neighborhood Road Program to Hard Rock Concrete, Inc., the low bidder, in the amount of \$1,012,788.

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

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 1,012,788
AMOUNT BUDGETED	\$ 1,000,000
APPROPRIATION REQUIRED	\$ 12,788
LINE ITEM NUMBER	203-203.00-865.432

BACKGROUND INFORMATION:

For several years, the City Council has made it a goal to invest annually in neighborhood streets to maintain the City's local road network. To implement this goal, the City selects several residential streets to be addressed based on an evaluation of the pavement condition using PASER ratings, field observations by staff, and resident concerns. The 2012 Neighborhood Road Program will implement the City's Asset Management approach for pavements that was established in 2009. This project includes multiple treatment methods which were determined during the design process based on our asset management approach, focused on preventative maintenance where appropriate and designed to extend the life of the City's roads in the most cost-effective manner.

The asset management program stresses the importance of using preventative maintenance to preserve good quality roads using low-cost rehabilitation techniques, rather than allowing the roads to deteriorate to a point that requires reconstruction involving much more effort at a higher cost. Roads that have deteriorated significantly will be addressed with rehabilitation methods such as overlays, panel replacements, and joint repairs to allow more efficient application of available road funds to maximize the number of neighborhood streets included in each year in the program. This year's program will address the following streets:

Road Segment	From	To	Material	PASER	Treatment
Glen Haven Cir	E Glen Haven Cir	Broquet Dr	Concrete	2-4	Joint/Slab Repair
Laramie	Eleven Mile	Cheyenne	Concrete	4-5	Joint/Slab Repair
Foxton Dr	9 Mile Rd	Steeple Path	Concrete	4	Joint/Slab Repair
Louvert Ct	Midway Dr	Cul-de-sac	Concrete	4	Joint/Slab Repair
Fairway Hills Dr	Simmons Dr	Surfside Rd	Concrete	3	Joint/Slab Repair
Braydon Ct	White Pines Dr	Cul-de-sac	Concrete	3	Reconstruct
Westminster Cir	Squire Rd	Haggerly Rd	Asphalt	4-5	Mill and Overlay
Squire Rd.	Nilan Dr	Westminster Cir	Asphalt	4-5	Mill and Overlay
Cottisford Rd	Novi Rd	City Limits	Asphalt	2	Reconstruct
Jamestown	Ten Mile	Yorkshire	Asphalt	8	Drainage Improvements

The streets listed above comprise 1.95 miles of improvements for 2012. In contrast, the portion of the additional \$2.1 million that could be generated from passage of the proposed road millage increase and allocated to local streets (or approximately \$1,365,000) would improve approximately 2.63 additional miles of neighborhood streets in 2013 (over and above the \$1,000,000 in construction currently planned for 2013).

The required reconstruction of Cottisford is an example of a road segment where maintenance may have been neglected, allowing the road to deteriorate to a point where the road cannot be rehabilitated. Braydon Court is an exception and has been proposed for reconstruction rather than rehabilitation because the concrete has exhibited evidence of deterioration due to a problem referred to as alkali-silica reaction (ASR), which is a chemical reaction that causes brittle cracks to radiate from the interior of the aggregate out into the surrounding cement, resulting in accelerated deterioration and eventual failure of the concrete.

Four bids were received and opened on May 23, 2012 following a public bid solicitation period. The lowest bidder is Hard Rock Concrete. Hard Rock's bid is recommended as being in the best interest of the City as it is responsive (i.e., Hard Rock has complied with all requirements of the bidding instructions) and it is the lowest price. (OHM's award recommendation letter including the bid tabulation dated May 29, 2012 is attached.) A summary of the four bids is as follows:

Contractor	Bid Price (including Crew Days)*
Hard Rock Concrete	\$1,052,148.00
Audia Construction	\$1,093,671.00
Florence Cement	\$1,244,669.25
Montes Contracting	\$1,260,460.50

*Crew Days are included to compare bids, but are not included in the award.

This project was included in the FY2011-12 Capital Improvement Program (CIP) in the budgeted amount of \$1,150,000 for construction and \$70,000 for engineering (total project budget of \$1,220,000), of which \$88,838 was awarded for design engineering, \$1,012,788 is now being recommended for award to Hard Rock for construction, and \$93,037 is also recommended for award to OHM for construction engineering services (a separate item on this agenda) for total contract awards in the amount of \$1,194,763.

Construction engineering services for this project is being recommended for award to OHM as a separate item on this agenda. It is anticipated that the construction of the project will begin this summer and be completed this construction season.

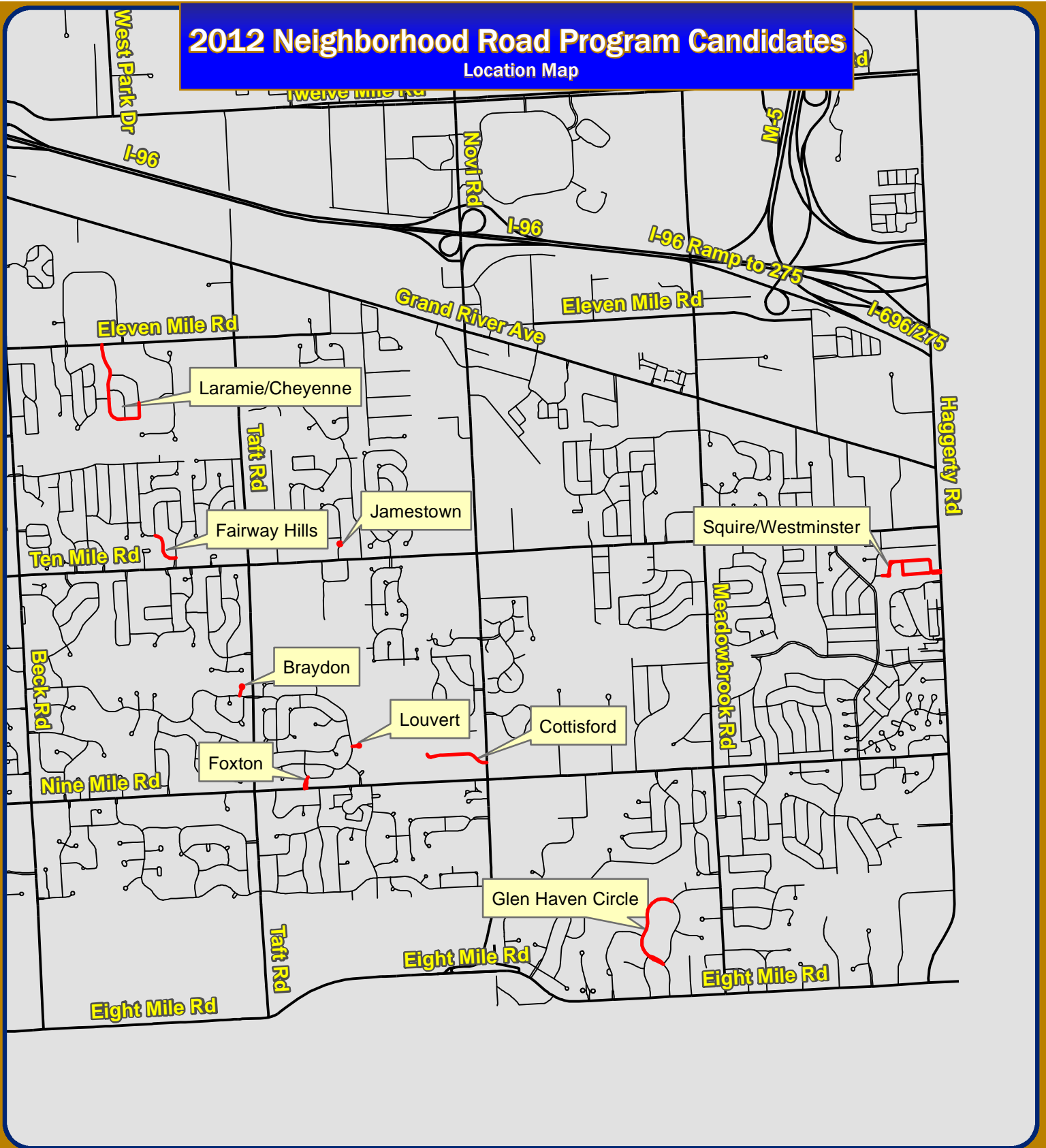
RECOMMENDED ACTION: Approval to award a construction contract for the 2012 Neighborhood Road Program to Hard Rock Concrete, Inc., the low bidder, in the amount of \$1,012,788.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Fischer				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Wrobel				

2012 Neighborhood Road Program Candidates

Location Map



Map Author: Croy
 Date: 5/17/12
 Project: 2012 Neighborhood Roads
 Version #: v1.1



City of Novi
 Engineering Division
 Department of Public Services
 26300 Delwal Drive
 Novi, MI 48375
cityofnovi.org

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.



1 inch = 3,040 feet

May 29, 2012

City of Novi
26300 Lee BeGole Drive
Novi, MI 48375



Attention: Ben Croy, P.E. Engineer

**Regarding: City of Novi - 2012 Neighborhood Roads Program
Recommendation of Award
OHM Job # 0163-11-0011**

Dear Mr. Croy:

Sealed bids for the 2012 Neighborhood Roads Program were received and publicly read aloud on Wednesday, May 23, 2012. Proposals were received from four (4) bidders. The four (4) bid amounts were read aloud were:

Contractor	Amount
Hard Rock Concrete, Inc	\$ 1,053,863.50
Audia Concrete Construction, Inc.	\$ 1,134,793.00
Florence Cement Company	\$ 1,284,840.25
Montes Contracting	\$ 1,352,401.50

The Engineer's Opinion of Probable Construction Cost was estimated to be \$1,173,047.00

The project scope consists of performing road reconstruction or rehabilitation work in the following locations: Westminster Circle, Squire Road, Glen Haven Circle, Cottisford Road, Foxtan Drive, Louvert Court, Braydon Court, Fairway Hills Drive, Laramie and Cheyenne Drive, and Jamestown Road. The work to be done under this Contract includes the furnishing of materials, equipment, and labor necessary to complete the proposed work, as well as all necessary restoration in accordance with the specifications.

Hard Rock Concrete, Inc is the apparent low bid. Hard Rock Concrete, Inc., located in Westland, MI, has completed many projects with the City, including the 2011, 2009, and 2008 Neighborhood Road Programs and has provided quality work for the City.

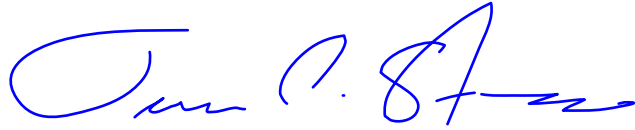
After reviewing the bid, it was noticed that several bid items did not have uniform unit prices across differing Divisions as required by the bidding instructions and project specifications. Our office contacted Hard Rock Concrete Inc. regarding these bid discrepancies, for the following items: Conduit, Direct Burial, Trench B, 3 inch, Driveway, Nonreinf Conc, 6 inch, HMA 13A, and HMA 3C. The lowest unit price was utilized for all these bid items, except for HMA 13A and HMA 3C. After discussions with the City and Hard Rock Concrete Inc., it was determined that the higher unit price of \$160/ton unit price for HMA, 13 A, and HMA 3C was justified for Division J - Jamestowne as the Contractor would need to complete this work with manual hand work versus utilizing the paving machine like in the other Divisions thereby creating a higher cost. After recalculating the bid for the agreed upon prices, the bid becomes \$1,052,148.00

Based on our findings, we recommend award of this contract to Hard Rock Concrete, Inc. in the amount of **\$1,052,148.00**, per the unit prices bid for the project.

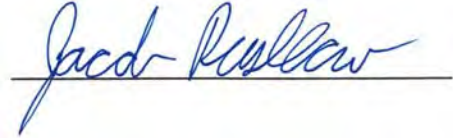
If you have any questions please do not hesitate to give our office a call at (734) 522-6711.

Sincerely,

ORCHARD, HILTZ & McCLIMENT, INC.



James C. Stevens P.E.
Client Representative



Jacob Rushlow, P.E.
Project Engineer

Item No.	Description	Estimated Quantity	Unit Price		Amount		Unit Price		Amount	
			Price	Amount	Price	Amount	Price	Amount	Price	Amount
Division A: Westminster Circle										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$3,250.00	\$3,250.00	\$8,500.00	\$8,500.00	\$7,500.00	\$7,500.00
2)	Audio Video Route Survey	1 LS	\$1,000.00	\$1,000.00	\$985.00	\$985.00	\$700.00	\$700.00	\$800.00	\$800.00
3)	Traffic Maintenance and Control	1 LS	\$1,000.00	\$1,000.00	\$1,300.00	\$1,300.00	\$1,900.00	\$1,900.00	\$3,500.00	\$3,500.00
4)	Flag Control	1 LS	\$2,000.00	\$2,000.00	\$250.00	\$250.00	\$4,100.00	\$4,100.00	\$1,000.00	\$1,000.00
5)	Crew Days	615 \$/day	7	\$4,305.00	11	\$6,765.00	18.75	\$11,531.25	9	\$5,535.00
6)	Pavt, Rem	1900 Syd	\$5.00	\$9,500.00	\$10.00	\$19,000.00	\$5.00	\$9,500.00 ³	\$10.00	\$19,000.00
7)	Curb and Gutter, Rem	372 Ft	\$10.00	\$3,720.00	\$9.00	\$3,348.00	\$17.00	\$6,324.00	\$7.50	\$2,790.00
8)	Cold Milling HMA Surface, 2 inch	3500 Syd	\$2.50	\$8,750.00	\$1.50	\$5,250.00	\$1.80	\$6,300.00	\$1.35	\$4,725.00
9)	Erosion Control, Inlet Protection, Silt Sack	7 Ea	\$150.00	\$1,050.00	\$60.00	\$420.00	\$80.00	\$560.00	\$100.00	\$700.00
10)	Maintenance Aggregate	100 Ton	\$15.00	\$1,500.00	\$22.00	\$2,200.00	\$22.00	\$2,200.00	\$17.00	\$1,700.00
11)	Aggregate Base, 21AA, 8 inch	1750 Syd	\$10.00	\$17,500.00	\$5.80	\$10,150.00 ³	\$14.50	\$25,375.00	\$7.50	\$13,125.00 ³
12)	Subgrade Undercutting, Type II (Modified)	145 Cyd	\$20.00	\$2,900.00	\$26.00	\$3,770.00	\$38.00	\$5,510.00	\$29.00	\$4,205.00 ³
13)	Curb and Gutter, Conc, Det D	372 Ft	\$30.00	\$11,160.00	\$15.50	\$5,766.00	\$18.50	\$6,882.00	\$19.00	\$7,068.00 ³
14)	HMA, 3C	192 Ton	\$80.00	\$15,360.00	\$58.00	\$11,136.00 ³	\$94.00	\$18,048.00	\$52.00	\$9,984.00 ³
15)	HMA, 13A	144 Ton	\$80.00	\$11,520.00	\$67.00	\$9,648.00 ³	\$72.00	\$10,368.00	\$60.00	\$8,640.00 ³
16)	Conduit, Direct Burial, Trench B, 3 inch	120 Ft	\$20.00	\$2,400.00	\$15.00	\$1,800.00	\$20.00	\$2,400.00	\$13.75	\$1,650.00
17)	Structure Cover, Adj, Case 1	8 Ea	\$175.00	\$1,400.00	\$350.00	\$2,800.00	\$300.00	\$2,400.00	\$250.00	\$2,000.00
18)	Structure, Recon	4.5 VFt	\$200.00	\$900.00	\$150.00	\$675.00	\$250.00	\$1,125.00	\$175.00	\$787.50 ³
19)	Frame and Cover, Replace	8 Ea	\$600.00	\$4,800.00	\$400.00	\$3,200.00	\$600.00	\$4,800.00	\$500.00	\$4,000.00
20)	Sidewalk, Conc, 4 inch	500 Sft	\$3.25	\$1,625.00	\$3.00	\$1,500.00	\$3.20	\$1,600.00	\$3.50	\$1,750.00
21)	Sidewalk, Conc, 8 inch	300 Sft	\$4.00	\$1,200.00	\$4.20	\$1,260.00	\$4.40	\$1,320.00	\$5.00	\$1,500.00
22)	Sidewalk Ramp, ADA	400 Sft	\$20.00	\$8,000.00	\$9.80	\$3,920.00	\$6.00	\$2,400.00	\$9.00	\$3,600.00 ³
23)	Irrigation Piping	150 Ft	\$2.00	\$300.00	\$3.00	\$450.00	\$4.00	\$600.00 ³	\$2.50	\$375.00
24)	Sprinkler Head, Adj	10 Ea	\$40.00	\$400.00	\$5.00	\$50.00	\$40.00	\$400.00	\$35.00	\$350.00
25)	Sprinkler Head, Replace	10 Ea	\$40.00	\$400.00	\$15.00	\$150.00	\$80.00	\$800.00	\$50.00	\$500.00
TOTAL DIVISION A:				\$112,790.00		\$99,043.00 ⁴		\$135,643.25 ⁴		\$106,784.50 ⁴
Division B: Squire Road										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$4,900.00	\$4,900.00	\$9,100.00	\$9,100.00	\$10,000.00	\$10,000.00
2)	Audio Video Route Survey	1 LS	\$1,300.00	\$1,300.00	\$1,125.00	\$1,125.00	\$700.00	\$700.00	\$725.00	\$725.00
3)	Traffic Maintenance and Control	1 LS	\$1,000.00	\$1,000.00	\$1,300.00	\$1,300.00	\$1,900.00	\$1,900.00	\$3,500.00	\$3,500.00
4)	Flag Control	1 LS	\$3,000.00	\$3,000.00	\$250.00	\$250.00	\$4,100.00	\$4,100.00	\$750.00	\$750.00
5)	Crew Days	615 \$/day	8	\$4,920.00	14	\$8,610.00	18.75	\$11,531.25	12	\$7,380.00
6)	Pavt, Rem	3450 Syd	\$5.00	\$17,250.00	\$10.00	\$34,500.00	\$5.00	\$17,250.00 ³	\$10.00	\$34,500.00
7)	Curb and Gutter, Rem	475 Ft	\$10.00	\$4,750.00	\$9.00	\$4,275.00	\$17.00	\$8,075.00	\$7.50	\$3,562.50 ³
8)	Cold Milling HMA Surface, 2 inch	6700 Syd	\$2.50	\$16,750.00	\$1.50	\$10,050.00	\$1.80	\$12,060.00	\$1.35	\$9,045.00
9)	Erosion Control, Inlet Protection, Silt Sack	12 Ea	\$150.00	\$1,800.00	\$60.00	\$720.00	\$80.00	\$960.00	\$100.00	\$1,200.00
10)	Maintenance Aggregate	75 Ton	\$15.00	\$1,125.00	\$22.00	\$1,650.00	\$22.00	\$1,650.00	\$17.00	\$1,275.00
11)	Aggregate Base, 21AA, 8 inch	3400 Syd	\$10.00	\$34,000.00	\$5.80	\$19,720.00 ³	\$14.50	\$49,300.00	\$7.50	\$25,500.00 ³
12)	Subgrade Undercutting, Type II (Modified)	277 Cyd	\$20.00	\$5,540.00	\$26.00	\$7,202.00	\$38.00	\$10,526.00	\$29.00	\$8,033.00
13)	Curb and Gutter, Conc, Det D	475 Ft	\$30.00	\$14,250.00	\$15.50	\$7,362.50	\$18.50	\$8,787.50	\$19.00	\$9,025.00 ³
14)	HMA, 3C	366 Ton	\$80.00	\$29,280.00	\$58.00	\$21,228.00 ³	\$94.00	\$34,404.00	\$52.00	\$19,032.00 ³
15)	HMA, 13A	274 Ton	\$80.00	\$21,920.00	\$67.00	\$18,358.00 ³	\$72.00	\$19,728.00	\$60.00	\$16,440.00 ³
16)	Structure Cover, Adj, Case 1	12 Ea	\$175.00	\$2,100.00	\$350.00	\$4,200.00	\$300.00	\$3,600.00	\$250.00	\$3,000.00
17)	Structure, Recon	6 VFt	\$200.00	\$1,200.00	\$150.00	\$900.00	\$250.00	\$1,500.00	\$175.00	\$1,050.00
18)	Frame and Cover, Replace	2 Ea	\$600.00	\$1,200.00	\$400.00	\$800.00	\$600.00	\$1,200.00	\$500.00	\$1,000.00 ³
19)	Sidewalk, Conc, 4 inch	250 Sft	\$3.25	\$812.50	\$3.00	\$750.00	\$3.20	\$800.00	\$3.50	\$875.00
20)	Sidewalk Ramp, ADA	500 Sft	\$20.00	\$10,000.00	\$9.80	\$4,900.00	\$6.00	\$3,000.00	\$9.00	\$4,500.00
21)	Irrigation Piping	150 Ft	\$2.00	\$300.00	\$3.00	\$450.00	\$4.00	\$600.00 ³	\$2.50	\$375.00
22)	Sprinkler Head, Adj	10 Ea	\$40.00	\$400.00	\$5.00	\$50.00	\$40.00	\$400.00	\$35.00	\$350.00
23)	Sprinkler Head, Replace	10 Ea	\$40.00	\$400.00	\$15.00	\$150.00	\$80.00	\$800.00	\$50.00	\$500.00
TOTAL DIVISION B:				\$173,397.50		\$153,450.50 ^{1,4}		\$201,971.75 ⁴		\$161,617.50 ⁴
Division C: W. Glen Haven Circle										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$7,100.00	\$7,100.00	\$5,000.00	\$5,000.00	\$20,000.00	\$20,000.00
2)	Audio Video Route Survey	1 LS	\$1,500.00	\$1,500.00	\$1,345.00	\$1,345.00	\$575.00	\$575.00	\$900.00	\$900.00
3)	Traffic Maintenance and Control	1 LS	\$2,000.00	\$2,000.00	\$1,300.00	\$1,300.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
4)	Flag Control	1 LS	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$1,200.00	\$1,200.00	\$750.00	\$750.00
5)	Crew Days	615 \$/day	10	\$6,150.00	14	\$8,610.00	15	\$9,225.00	12	\$7,380.00
6)	Pavt, Rem	4500 Syd	\$5.00	\$22,500.00	\$10.00	\$45,000.00	\$5.00	\$22,500.00 ³	\$10.00	\$45,000.00
7)	Erosion Control, Inlet Protection, Silt Sack	4 Ea	\$150.00	\$600.00	\$60.00	\$240.00	\$80.00	\$320.00	\$100.00	\$400.00
8)	Maintenance Aggregate	94 Ton	\$15.00	\$1,410.00	\$22.00	\$2,068.00	\$22.00	\$2,068.00	\$17.00	\$1,598.00
9)	Aggregate Base, 21AA, 6 inch	4200 Syd	\$8.00	\$33,600.00	\$5.45	\$22,890.00	\$11.00	\$46,200.00	\$7.00	\$29,400.00 ³
10)	Subgrade Undercutting, Type II (Modified)	355 Cyd	\$20.00	\$7,100.00	\$26.00	\$9,230.00	\$38.00	\$13,490.00	\$29.00	\$10,295.00 ³
11)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	4200 Syd	\$30.00	\$126,000.00	\$33.80	\$141,960.00	\$32.00	\$134,400.00	\$39.00	\$163,800.00
12)	HMA Approach	20 Ton	\$175.00	\$3,500.00	\$150.00	\$3,000.00	\$130.00	\$2,600.00	\$100.00	\$2,000.00
13)	Resealing Joints with Hot-Poured Rubber	1220 Lbs	\$2.20	\$2,684.00	\$2.45	\$2,989.00	\$2.20	\$2,684.00	\$2.25	\$2,745.00
14)	Saw Cut, Repair	750 Ft	\$5.00	\$3,750.00	\$2.65	\$1,987.50	\$4.00	\$3,000.00	\$0.70	\$525.00
15)	Sidewalk Ramp, ADA	1600 Sft	\$20.00	\$32,000.00	\$9.80	\$15,680.00	\$6.00	\$9,600.00	\$9.00	\$14,400.00 ³
16)	Structure Cover, Adj, Case 1	15 Ea	\$175.00	\$2,625.00	\$350.00	\$5,250.00	\$300.00	\$4,500.00	\$250.00	\$3,750.00
17)	Structure, Recon	1 VFt	\$200.00	\$200.00	\$150.00	\$150.00	\$250.00	\$250.00	\$175.00	\$175.00
18)	Frame and Cover, Replace	4 Ea	\$600.00	\$2,400.00	\$400.00	\$1,600.00	\$600.00	\$2,400.00	\$500.00	\$2,000.00 ³
19)	Irrigation Piping	150 Ft	\$2.00	\$300.00	\$3.00	\$450.00	\$4.00	\$600.00 ³	\$2.50	\$375.00
20)	Sprinkler Head, Adj	10 Ea	\$40.00	\$400.00	\$5.00	\$50.00	\$40.00	\$400.00	\$35.00	\$350.00
21)	Sprinkler Head, Replace	10 Ea	\$40.00	\$400.00	\$15.00	\$150.00	\$80.00	\$800.00	\$50.00	\$500.00
TOTAL DIVISION C:				\$250,219.00		\$271,299.50		\$266,812.00 ⁴		\$311,343.00 ⁴
Division D: Cottisford Road										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$4,775.00	\$4,775.00	\$3,685.00	\$3,685.00	\$19,000.00	\$19,000.00
2)	Audio Video Route Survey	1 LS	\$1,300.00	\$1,300.00	\$1,125.00	\$1,125.00	\$575.00	\$575.00	\$800.00	\$800.00
3)	Traffic Maintenance and Control	1 LS	\$2,000.00	\$2,000.00	\$1,300.00	\$1,300.00	\$500.00	\$500.00	\$5,000.00	\$5,000.00
4)	Flag Control	1 LS	\$1,500.00	\$1,500.00	\$250.00	\$250.00	\$500.00	\$500.00	\$2,000.00	\$2,000.00
5)	Crew Days	615 \$/day	8	\$4,920.00	15	\$9,225.00	18.75	\$11,531.25	15	\$9,225.00
6)	Erosion Control, Silt Fence	500 Ft	\$2.00	\$1,000.00	\$4.20	\$2,100.00	\$2.00	\$1,000.00	\$1.50	\$750.00
7)	Pavt, Rem	3300 Syd	\$5.00	\$16,500.00	\$10.00	\$33,000.00	\$5.00	\$16,500.00	\$10.00	\$33,000.00
8)	Maintenance Aggregate	100 Ton	\$15.00	\$1,500.00	\$22.00	\$2,200.00	\$22.00	\$2,200.00	\$17.00	\$1,700.00
9)	Station Grading	15 Sta	\$200.00	\$3,000.00	\$1,400.00	\$21,000.00	\$1.00	\$15.00	\$1,500.00	\$22,500.00
10)	Aggregate Base, 21AA, 8 inch	3500 Syd	\$10.00	\$35,000.00	\$5.80	\$20,300.00	\$14.50	\$50,750.00	\$7.50	\$26,250.00
11)	Subgrade Undercutting, Type II (Modified)	391 Cyd	\$20.00	\$7,820.00	\$26.00	\$10,166.00	\$38.00	\$14,858.00	\$29.00	\$11,339.00 ³
12)	HMA, 3C	517 Ton	\$80.00</							

Phone: 734-641-3333

Phone: 248-676-9570

Phone: 586-997-2666

Phone: 248-207-7819

Item No.	Description	Estimated Quantity	Unit Price		Amount		Unit Price		Amount	
			Price	Amount	Price	Amount	Price	Amount	Price	Amount
10)	Subgrade Undercutting, Type II (Modified)	70 Cyd	\$20.00	\$1,400.00	\$26.00	\$1,820.00	\$38.00	\$2,660.00	\$29.00	\$2,030.00 ³
11)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	800 Syd	\$30.00	\$24,000.00	\$33.80	\$27,040.00	\$32.00	\$25,600.00	\$39.00	\$31,200.00
12)	Structure Cover, Adj, Case 1	2 Ea	\$175.00	\$350.00	\$350.00	\$700.00	\$300.00	\$600.00	\$250.00	\$500.00
13)	Structure, Recon	4 VFt	\$200.00	\$800.00	\$150.00	\$600.00	\$250.00	\$1,000.00	\$175.00	\$700.00
14)	Frame and Cover, Replace	2 Ea	\$600.00	\$1,200.00	\$400.00	\$800.00	\$600.00	\$1,200.00	\$500.00	\$1,000.00
15)	Remove and Replace Decorative Stone	90 Syd	\$30.00	\$2,700.00	\$19.00	\$1,710.00	\$11.00	\$990.00	\$15.00	\$1,350.00
16)	Driveway, Nonreinf Conc, 6 inch	60 Syd	\$27.00	\$1,620.00 ³	\$28.00	\$1,680.00	\$30.50	\$1,830.00	\$27.00	\$1,620.00 ³
17)	Irrigation Piping	50 Ft	\$2.00	\$100.00	\$3.00	\$150.00	\$4.00	\$200.00 ³	\$2.50	\$125.00
18)	Sprinkler Head, Adj	5 Ea	\$40.00	\$200.00	\$5.00	\$25.00	\$40.00	\$200.00	\$35.00	\$175.00
19)	Sprinkler Head, Replace	5 Ea	\$40.00	\$200.00	\$15.00	\$75.00	\$80.00	\$400.00	\$50.00	\$250.00
TOTAL DIVISION F:				\$49,080.00 ⁴		\$54,055.00		\$69,526.25 ⁴		\$69,200.00 ⁴
Division G: Braydon Court										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$2,850.00	\$2,850.00	\$1,995.00	\$1,995.00	\$10,000.00	\$10,000.00
2)	Audio Video Route Survey	1 LS	\$1,000.00	\$1,000.00	\$725.00	\$725.00	\$625.00	\$625.00	\$675.00	\$675.00
3)	Traffic Maintenance and Control	1 LS	\$1,000.00	\$1,000.00	\$1,300.00	\$1,300.00	\$400.00	\$400.00	\$5,000.00	\$5,000.00
4)	Flag Control	1 LS	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$1,200.00	\$1,200.00	\$500.00	\$500.00
5)	Crew Days	615 \$/day	6	\$3,690.00	6	\$3,690.00	18.75	\$11,531.25	15	\$9,225.00
6)	Pavt, Rem	1550 Syd	\$5.00	\$7,750.00	\$10.00	\$15,500.00	\$5.00	\$7,750.00 ³	\$10.00	\$15,500.00
7)	Erosion Control, Inlet Protection, Silt Sack	2 Ea	\$150.00	\$300.00	\$60.00	\$120.00	\$80.00	\$160.00	\$100.00	\$200.00
8)	Station Grading	5 Sta	\$200.00	\$1,000.00	\$1,400.00	\$7,000.00	\$1.00	\$5.00	\$1,500.00	\$7,500.00
9)	Aggregate Base, 21AA, 6 inch	1550 Syd	\$8.00	\$12,400.00	\$5.45	\$8,447.50	\$11.00	\$17,050.00	\$7.00	\$10,850.00
10)	Subgrade Undercutting, Type II (Modified)	130 Cyd	\$20.00	\$2,600.00	\$26.00	\$3,380.00	\$38.00	\$4,940.00	\$29.00	\$3,770.00 ³
11)	Maintenance Aggregate	35 Ton	\$15.00	\$525.00	\$22.00	\$770.00	\$22.00	\$770.00	\$17.00	\$595.00
12)	Conc Pavt w/ Intg Curb, Nonreinf Conc, 8 inch	1550 Syd	\$30.00	\$46,500.00	\$33.80	\$52,390.00	\$32.00	\$49,600.00	\$37.00	\$57,350.00
13)	Driveway, Nonreinf Conc, 6 inch	70 Syd	\$27.00	\$1,890.00 ³	\$28.00	\$1,960.00	\$30.50	\$2,135.00	\$27.00	\$1,890.00 ³
14)	Underdrain, Subgrade, 6 inch	1000 Ft	\$8.00	\$8,000.00	\$12.00	\$12,000.00	\$14.50	\$14,500.00	\$10.00	\$10,000.00
15)	Dr Structure Tap, 6 inch	2 Ea	\$150.00	\$300.00	\$100.00	\$200.00	\$110.00	\$220.00	\$75.00	\$150.00
16)	Structure Cover, Adj, Case 1	2 Ea	\$175.00	\$350.00	\$350.00	\$700.00	\$300.00	\$600.00	\$250.00	\$500.00
17)	Structure, Recon	2 VFt	\$200.00	\$400.00	\$150.00	\$300.00	\$250.00	\$500.00	\$175.00	\$350.00
18)	Frame and Cover, Replace	2 Ea	\$600.00	\$1,200.00	\$400.00	\$800.00	\$600.00	\$1,200.00	\$500.00	\$1,000.00 ³
19)	Post, Mailbox, Remove and Reset	7 Ea	\$50.00	\$350.00	\$150.00	\$1,050.00	\$160.00	\$1,120.00	\$125.00	\$875.00
20)	Temporary Mailbox Units	1 LS	\$500.00	\$500.00	\$2,500.00	\$2,500.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00
21)	Restoration	1 LS	\$1,500.00	\$1,500.00	\$850.00	\$850.00	\$4,000.00	\$4,000.00	\$3,500.00	\$3,500.00
22)	Irrigation Piping	50 Ft	\$2.00	\$100.00	\$3.00	\$150.00	\$4.00	\$200.00 ³	\$2.50	\$125.00
23)	Sprinkler Head, Adj	5 Ea	\$40.00	\$200.00	\$5.00	\$25.00	\$40.00	\$200.00	\$35.00	\$175.00
24)	Sprinkler Head, Replace	5 Ea	\$40.00	\$200.00	\$15.00	\$75.00	\$80.00	\$400.00	\$50.00	\$250.00
TOTAL DIVISION G:				\$92,855.00 ⁴		\$117,032.50		\$121,601.25 ⁴		\$140,980.00 ⁴
Division H: Fairway Hills Drive - Simmons Road to Surfside										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$1,425.00	\$1,425.00	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00
2)	Audio Video Route Survey	1 LS	\$1,200.00	\$1,200.00	\$985.00	\$985.00	\$800.00	\$800.00	\$725.00	\$725.00
3)	Traffic Maintenance and Control	1 LS	\$1,000.00	\$1,000.00	\$1,300.00	\$1,300.00	\$700.00	\$700.00	\$3,500.00	\$3,500.00
4)	Flag Control	1 LS	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$1,200.00	\$1,200.00	\$500.00	\$500.00
5)	Crew Days	615 \$/day	6	\$3,690.00	3	\$1,845.00	12.50	\$7,687.50	7	\$4,305.00
6)	Pavt, Rem	775 Syd	\$5.00	\$3,875.00	\$10.00	\$7,750.00	\$5.00	\$3,875.00 ³	\$10.00	\$7,750.00
7)	Erosion Control, Inlet Protection, Silt Sack	8 Ea	\$150.00	\$1,200.00	\$60.00	\$480.00	\$80.00	\$640.00	\$100.00	\$800.00
8)	Maintenance Aggregate	15 Ton	\$15.00	\$225.00	\$22.00	\$330.00	\$22.00	\$330.00	\$17.00	\$255.00
9)	Aggregate Base, 21AA, 6 inch	600 Syd	\$8.00	\$4,800.00	\$5.45	\$3,270.00 ³	\$11.00	\$6,600.00	\$7.00	\$4,200.00 ³
10)	Subgrade Undercutting, Type II (Modified)	55 Cyd	\$20.00	\$1,100.00	\$26.00	\$1,430.00	\$38.00	\$2,090.00	\$29.00	\$1,595.00 ³
11)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	600 Syd	\$30.00	\$18,000.00	\$33.80	\$20,280.00	\$32.00	\$19,200.00	\$39.00	\$23,400.00 ³
12)	Driveway, Nonreinf Conc, 6 inch	175 Syd	\$27.00	\$4,725.00 ³	\$28.00	\$4,900.00	\$30.50	\$5,337.50	\$27.00	\$4,725.00
13)	Resealing Joints with Hot-Poured Rubber	2220 Lbs	\$2.20	\$4,884.00	\$2.45	\$5,439.00	\$2.20	\$4,884.00	\$2.25	\$4,995.00
14)	Saw Cut, Repair	2000 Ft	\$5.00	\$10,000.00	\$2.65	\$5,300.00	\$4.00	\$8,000.00	\$0.70	\$1,400.00
15)	Structure Cover, Adj, Case 1	3 Ea	\$175.00	\$525.00	\$350.00	\$1,050.00	\$300.00	\$900.00	\$250.00	\$750.00
16)	Structure, Recon	5 VFt	\$200.00	\$1,000.00	\$150.00	\$750.00	\$250.00	\$1,250.00	\$175.00	\$875.00
17)	Post, Mailbox, Remove and Reset	5 Ea	\$50.00	\$250.00	\$150.00	\$750.00 ³	\$160.00	\$800.00	\$125.00	\$625.00
18)	Irrigation Piping	100 Ft	\$2.00	\$200.00	\$3.00	\$300.00	\$4.00	\$400.00 ³	\$2.50	\$250.00
19)	Sprinkler Head, Adj	5 Ea	\$40.00	\$200.00	\$5.00	\$25.00	\$40.00	\$200.00	\$35.00	\$175.00
20)	Sprinkler Head, Replace	5 Ea	\$40.00	\$200.00	\$15.00	\$75.00	\$80.00	\$400.00	\$50.00	\$250.00
TOTAL DIVISION H:				\$58,174.00 ⁴		\$57,934.00 ⁴		\$67,794.00 ⁴		\$66,075.00 ⁴
Division I: Laramie and Cheyenne Drive										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$1,550.00	\$1,550.00	\$3,500.00	\$3,500.00	\$5,000.00	\$5,000.00
2)	Audio Video Route Survey	1 LS	\$1,600.00	\$1,600.00	\$1,385.00	\$1,385.00	\$575.00	\$575.00	\$950.00	\$950.00
3)	Traffic Maintenance and Control	1 LS	\$1,000.00	\$1,000.00	\$1,300.00	\$1,300.00	\$1,900.00	\$1,900.00	\$3,500.00	\$3,500.00
4)	Flag Control	1 LS	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$1,200.00	\$1,200.00	\$500.00	\$500.00
5)	Crew Days	615 \$/day	6	\$3,690.00	5	\$3,075.00	12.50	\$7,687.50	7	\$4,305.00
6)	Pavt, Rem	900 Syd	\$5.00	\$4,500.00	\$10.00	\$9,000.00	\$5.00	\$4,500.00 ³	\$10.00	\$9,000.00
7)	Curb and Gutter, Rem	81 Ft	\$10.00	\$810.00	\$9.00	\$729.00	\$17.00	\$1,377.00	\$7.50	\$607.50 ³
8)	Maintenance Aggregate	50 Ton	\$15.00	\$750.00	\$22.00	\$1,100.00	\$22.00	\$1,100.00	\$17.00	\$850.00
9)	Erosion Control, Inlet Protection, Silt Sack	2 Ea	\$150.00	\$300.00	\$60.00	\$120.00	\$80.00	\$160.00	\$100.00	\$200.00
10)	Aggregate Base, 21AA, 6 inch	850 Syd	\$8.00	\$6,800.00	\$5.45	\$4,632.50	\$11.00	\$9,350.00	\$7.00	\$5,950.00 ³
11)	Subgrade Undercutting, Type II (Modified)	70 Cyd	\$20.00	\$1,400.00	\$26.00	\$1,820.00	\$38.00	\$2,660.00	\$29.00	\$2,030.00 ³
12)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	560 Syd	\$30.00	\$16,800.00	\$33.80	\$18,928.00	\$32.00	\$17,920.00	\$39.00	\$21,840.00
13)	Pavt Repr, Nonreinf Conc, 8 inch	250 Syd	\$30.00	\$7,500.00	\$33.80	\$8,450.00	\$32.00	\$8,000.00	\$37.00	\$9,250.00
14)	Resealing Joints with Hot-Poured Rubber	1250 Lbs	\$2.20	\$2,750.00	\$2.45	\$3,062.50	\$2.20	\$2,750.00	\$2.25	\$2,812.50
15)	Saw Cut, Repair	300 Ft	\$5.00	\$1,500.00	\$2.65	\$795.00	\$4.00	\$1,200.00	\$0.70	\$210.00
16)	Structure Cover, Adj, Case 1	2 Ea	\$175.00	\$350.00	\$350.00	\$700.00	\$300.00	\$600.00	\$250.00	\$500.00
17)	Structure, Recon	1.5 VFt	\$200.00	\$300.00	\$150.00	\$225.00	\$250.00	\$375.00	\$175.00	\$262.50
18)	Sidewalk, Conc, 4 inch	250 Sft	\$3.25	\$812.50	\$3.00	\$750.00	\$3.20	\$800.00	\$3.50	\$875.00
19)	Sidewalk Ramp, ADA	500 Sft	\$20.00	\$10,000.00	\$9.80	\$4,900.00	\$6.00	\$3,000.00	\$9.00	\$4,500.00 ³
20)	Irrigation Piping	150 Ft	\$2.00	\$300.00	\$3.00	\$450.00	\$4.00	\$600.00 ³	\$2.50	\$375.00
21)	Sprinkler Head, Adj	5 Ea	\$40.00	\$200.00	\$5.00	\$25.00	\$40.00	\$200.00	\$35.00	\$175.00
22)	Sprinkler Head, Replace	5 Ea	\$40.00	\$200.00	\$15.00	\$75.00	\$80.00	\$400.00	\$50.00	\$250.00
TOTAL DIVISION I:				\$62,662.50		\$63,322.00		\$69,854.50 ⁴		\$73,942.50 ⁴
Division J: Jamestowne Road - at Yorkshire Drive										
1)	Mobilization, Max. 10%	1 LS	\$100.00	\$100.00	\$1,550.00	\$1,550.00	\$2,200.00	\$2,200.00	\$2,000.00	\$2,000.00
2)	Audio Video Route Survey	1 LS	\$1,000.00	\$1,000.00	\$825.00	\$825.00	\$850.00	\$850.00	\$675.00	\$675.00
3)	Traffic Maintenance and Control	1 LS	\$1,000.00	\$1,000.00	\$1,300.00	\$1,300.00	\$3,700.00	\$3,700.00	\$1,500.00	\$1,500.00
4)	Flag Control	1 LS	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$400.00	\$400.00	\$500.00	\$500.00
5)	Crew Days	615 \$/day	4	\$2,460.00	4	\$2,460.00	5	\$3,075.00		