CITY of NOVI CITY COUNCIL



Agenda Item ^I March 23, 2009

SUBJECT: Approval to award a contract for design engineering services for three federally funded major road projects: Meadowbrook Road (Eight Mile to Nine Mile), Nine Mile Road (Haggerty Road to Meadowbrook Road) and Nine Mile Road (Novi Road to Taft Road) to Orchard, Hiltz & McCliment for a total not-to-exceed design fee of \$56,900.

SUBMITTING DEPARTMENT: Department of Public Services/Engineering Division

CITY MANAGER APPROVAL	СІТҮ	MANAGER	APPROVAL.	Z.
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EXPENDITURE REQUIRED	\$18,500 (Meadowbrook Road) \$18,500 (Nine Mile—Haggerty to Meadowbrook) \$19,900 (Nine Mile—Novi to Taft)
AMOUNT BUDGETED	To be included in future budget amendment,
APPROPRIATION REQUIRED	\$18,500 (Meadowbrook Road) \$18,500 (Nine Mile—Haggerty to Meadowbrook) \$19,900 (Nine Mile—Novi to Taft)
LINE ITEM NUMBER	204-204.00-805.651 (Meadowbrook Road) 204-204.00-805.652 (Nine Mile—Haggerty to Meadowbrook) 204-204.00-805.653 (Nine Mile—Novi to Taft)

BACKGROUND INFORMATION:

The City of Novi is anticipating \$1,008,000 in federal funding through the American Recovery and Reinvestment Act of 2009. The Oakland County Federal Aid Committee met on February 24, 2009 and approved funding for these projects as submitted by the City of Novi, which were considered as candidates for Federal stimulus funding because they had been previously approved for funding on Oakland County's Transportation Improvement Program (TIP) list. In addition, the projects can be designed and under construction within 180 days as required by the act. Typically, federally funded projects are required to be bid and administered through Michigan Department of Transportation's (MDOT) Local Agency Program (LAP), however with the large number of stimulus projects that will be in the queue, it is possible the projects may get delayed in the MDOT process. In order to beat the demand of other stimulus projects that will be competing for inclusion in the LAP process, staff is striving for a 90 day design and bidding period to have the projects under construction by late summer. Staff will be working closely with MDOT to understand the process or perhaps work on an alternate process that will keep the projects on our 90 day schedule.

The three projects that received federal funding are 1) Meadowbrook Road from Eight Mile to Nine Mile Road, 2) Nine Mile Road from Meadowbrook Road to Haggerty Road and 3) Nine Mile Road from Novi Road to Taft Road. The attached map shows the location of these three projects. Each project consists of the rehabilitation or reconstruction of one mile of road, with other improvements such as curb replacement, base repair, sidewalk ramp replacement to comply with ADA requirements, and general drainage improvements.

The attached RFP for engineering services was sent to the six firms that City Council pre-qualified for roadway-related projects. Six proposals were received and each was evaluated using *Qualifications Based Selection*. While the construction engineering fee is not being recommended for award until the construction contract is awarded, the total estimated fee for the project is being

considered for the purpose of scoring. The following table summarizes the results of the proposal review process:

Firm	Design Phase Fee	Construction Engineering Fee	Total Engineering Fee	Total Staff Review Score	Proposal Rank
Orchard, Hiltz & McCliment	\$56,900	\$58,282	\$115,182	5,225	1
Spalding DeDecker	\$78 <u>,</u> 842	\$49,026	\$127,868	4,900	2
Fishbeck Thompson Carr & Huber	\$28,523	\$77,994	\$106,516	4,400	3
Anderson, Eckstein & Westrick	\$37,800	\$45,248	\$83,048	4,425	4
URS	\$47,260	\$88,169	\$135,429	3,825	5
Stantec	\$74,000	\$77,878	\$151,878	2,425	6

Of the six firms that submitted proposals, OHM met all of the requirements listed in the request for proposals and had highest staff review score (see attached OHM proposal dated March 11, 2009 and the Engineering Division's scoring summary for reference). In addition, OHM (as well as URS and FTCH) offered discounted fees if they were awarded all three projects. This discount reflects the efficiencies of designing and overseeing all three projects together. (The table above includes the discounted fees). Awarding all three projects to one firm will also streamline the projects is so similar there would be efficiencies in plan layout, survey, specifications, reporting and inspection if the projects were to be awarded to one firm. OHM has extensive experience with other communities working with MDOT's LAP.

According to OHM's schedule design will be completed in June 2009 and construction should be completed by November 2009.

RECOMMENDED ACTION: Approval to award a contract for design engineering services for the three federally funded major road projects: Meadowbrook Road (Eight Mile to Nine Mile) repaving, Nine Mile Road (Haggerty Road to Meadowbrook Road) and Nine Mile Road (Novi Road to Taft Road) to Orchard, Hiltz & McCliment for a total not-to-exceed design fee of \$56,900.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Burke				
Council Member Crawford				

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Council Member Margolis				
Council Member Mutch				
Council Member Staudt				





REQUEST FOR PROPOSALS CITY OF NOVI DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS

February 27, 2009

This **Request for Proposals (RFP) for 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS** is being sent to the firms selected in the Roadway Qualification Process completed on March 19, 2007. The City of Novi is anticipating federal funding through the American Recovery and Reinvestment Act of 2009. The Oakland County Federal Aid Committee met on February 24, 2009 and approved funding for three projects submitted by the City of Novi. These projects are described in detail below. All projects shall be completed and ready for bidding within 90 days of design award.

Project Descriptions

PROJECT 1: MEADOWBROOK ROAD (EIGHT MILE ROAD TO NINE MILE ROAD). The project will consist of milling the existing HMA surface and overlaying with 3" HMA consisting of 1 1/4" HMA wearing and 1 3/4" HMA leveling. The existing cross section of the roadway includes both a curb and gutter section (.6 miles) and open aggregate shoulders (.4 miles). The open shoulder sections of the roadway will be maintained consisting of 30' wide HMA (3' shoulders) and 5' aggregate shoulders. Some of the pavement will require removal and replacement due to poor subsurface drainage or stability problems. Those areas will be replaced with 6" HMA with 9 to 12" of aggregate base course. The existing curb and gutter sections will be maintained with only minor corrections required.

Meadowbrook Road is under the city's jurisdiction as is Nine Mile Road. Eight Mile Road is under the jurisdiction of Wayne County DPS.

The total federal funding amount for the project is \$340,000.

PROJECT 2: NINE MILE ROAD (HAGGERTY ROAD TO MEADOWBROOK ROAD). The project will consist of milling the existing surface and overlaying with 3 " HMA consisting of 1 1/4" HMA wearing and 1 3/4" HMA leveling. The existing cross section includes both open shoulder and curb and gutter sections. The open shoulder sections will consist of 30' wide HMA (3' shoulders) and 5' aggregate shoulders. Some total pavement removal will be required due to poor subsurface drainage or stability problems. The curb and gutter sections will be maintained with only minor repairs required.

Nine Mile and Meadowbrook are under the City's jurisdiction. Haggerty Road is under the jurisdiction of the Road Commission for Oakland County.

The total federal funding amount for the project is \$340,000.

PROJECT 3: NINE MILE ROAD (NOVI ROAD TO TAFT ROAD). The existing pavement section consists of HMA with curb and gutter section for the entire length. The scope of the rehabilitation will include milling the existing HMA surface and overlaying with 3 " HMA consisting of 1 1/4" HMA wearing and 1 3/4" HMA leveling. It is anticipated, due to its poor condition, that

approximately 30 to 40% of the curb and gutter needs to be replaced. There are also areas of total removal and replacement within the project limits due to subsurface drainage problems.

Nine Mile and Taft Roads are under the City's jurisdiction. Novi Road is under the jurisdiction of the Road Commission for Oakland County.

The total federal funding amount for the project is \$328,000.

<u>Schedule</u>

All design tasks shall be completed and the project shall be ready to bid within 90 days of award by the City. The City reserves to right to change the schedule to meet the requirements of the final regulations and/or rules for the timeframe to obligate the federal funds.

SCOPE OF SERVICES

- 1.) Upon authorization by the City Council and the City Engineer, the consultant shall (for each project for which they are selected) complete the following tasks:
 - This is a federally funded project. The consultant's fee shall include all work and coordination necessary with MDOT Local Agency Programs to design, review, bid, construct and close out the project.
 - Meet with the City at the beginning of the project to verify the scope of the projects.
 - Coordinate the geotechnical work with the City's geotechnical consultant (to be determined). The City will be requesting quotes from geotechnical consultants and will have selected a consultant by the time the engineering for these projects is awarded. The geotechnical request for quotes is included in Appendix B.
 - Review existing information available from the City. The City will provide information in the form of record drawings of existing roadways and utilities (as available), standard details, specifications, benchmarks, etc., as required to assist the Consultant in completing the work.
 - Evaluate the existing conditions to determine any drainage improvements that would be cost effective to prolong the life of the road.
 - Contact and coordinate with all utility companies with facilities within the project limits.
 - It is anticipated that no topographic survey is required and the work will be completed as log projects.
 - Provide preliminary design and project cost estimate at 30% complete for review and comment.
 - Provide final plans and contract documents for the project to MDOT and City as required before bidding for final review.
 - Coordinate and facilitate all required meetings with MDOT Local Agency including but not limited to grade inspection meetings, pre-construction meetings, etc.
 - A revised construction cost estimate shall be provided at the time of 90% review by the City.

- Coordinate all work with state and local agencies to acquire any permits required. (All local streets are under City of Novi jurisdiction and will not require a ROW permit).
- The plans shall be designed in accordance with the City of Novi Design and Construction Standards, Chapter 11, Novi Code of Ordinances, and RCOC requirements as applicable. The final design shall incorporate all items list above.
- The Consultant shall be responsible for specifying protection of existing survey monumentation and coordinating with the County surveyor as required.
- 2.) The Consultant shall complete a soil erosion and sedimentation control plan for each project in compliance with Part 91 of P.A. 451 of 1994, Chapter 29 of the Novi Code of Ordinances and the City of Novi SESC Program Manual. The consultant shall also provide a completed SESC application, SESC Checklist and three (3) sets of plans at such time as the SESC plan has been approved by Engineering.
- 3.) The consultant shall provide a Progress Status Report to the Engineering Division every other Friday (beginning on 3/20/09) using the form provided by the Engineering Division.
- 4.) In addition to the submittals stated elsewhere in this scope, the Consultant shall provide bidding services as required by MDOT and the City:
 - The Consultant shall be responsible for the distribution of all bid documents and addenda to potential bidders and plan holders. The costs associated with the reproduction of the bidding documents shall be included in the design phase fees for the consultant and may be offset by charging plan holders for bidding documents.
 - The consultant shall also submit the as-bid drawings and specifications in pdf format to the City Engineer at the time of bidding as well as a CD of the digital file converted to AutoCAD format.
 - The consultant shall meet all MDOT requirements for plan submittals.
 - The Consultant shall also provide all plan sets required for permit application submittal to any agencies as required.
 - At the end of the project, the consult shall submit to City Engineering all project reports and documents, and written recommendation regarding final acceptance of the project. The Consultant, shall also prepare record drawings and transmit one (1) digital copy of as-built plan in .tif format (400 dpi minimum), two (2) plan copies, and a CD containing the digital file of the record drawings in the City standard format (AutoCAD), and provide such information to the Engineering Division within three (3) months following substantial completion of the project.
- 5.) As a part of the Design Phase, the Consultant shall prepare bid documents and provide assistance to MDOT with the bidding of the project, including coordinating and facilitating the preparation of contract addenda, plan revisions, responding to bidder inquiries, review of bids, and recommendation of award. All bidding activities shall be coordinated through MDOT and the City. Following the bid opening, the consultant shall provide required documentation to facilitate award of the project on the City's behalf.
- 6.) Contract administration services shall include, but not be limited to: reviewing shop drawings furnished by the contractor at the pre-construction meeting, coordinating and running the pre-construction meeting, interpretation of plans and specifications, preparation and certification of pay estimates, preparation and submittal of progress reports, staking, project review, and record drawing preparation.
- 7.) Construction Inspection services shall include, but not be limited to: full-time construction inspection during active construction, part-time inspection during restoration, testing, and

other tasks that do not require full-time inspection (as determined by the City), ensuring compliance with contract documents, regular consultation with City Engineering, materials testing and final acceptance testing. Also part of construction inspection services shall be soil erosion and sedimentation control tasks (see detailed requirements below). The Consultant must also promptly attend to resident concerns and complaints as they become known.

- 8.) For the purposes of the engineering contract, crew days shall be defined by the construction contract documents. There will be no payment to the consultant for extra crew days that were not charged to the contractor. The intent of using crew days for inspection services is to provide a method for the consultant to recoup costs associated with slow progress by the contractor.
- 9.) During the construction phase the Consultant shall be responsible for administering and enforcing the soil erosion and sedimentation control plan as an agent for the City under the Authorized Public Agency (APA) program in compliance with the City of Novi Authorized Public Agency Soil Erosion and Sedimentation Control Program Manual. The Consultant shall also be responsible for soil erosion and sedimentation control inspections of the project for compliance with the approved soil erosion and sedimentation control plan. The inspections must be completed by an individual who has current certification through the Michigan Department of Environmental Quality under Part 91. The inspections must be maintained and provided to City staff as required. The Consultant shall also be responsible for instituting corrective measures in the field to prevent soil erosion and sedimentation as required, and for overseeing the Contractor's Storm Water Operator.
- 10.) As a Local Agency Project, the consultant will be responsible for all reporting requirements throughout the project.

DOCUMENT AND FILE FORMAT

All documents shall be submitted to the City of Novi in an electronic format as specified by the Engineering Division and MDOT.

CONSULTANT QUALIFICATIONS

The Consultant has been pre-qualified to provide engineering consulting services for roadway projects.

CONSULTANT SELECTION

As a pre-qualified consultant, the selection for this project will be based on the fee proposal, which is labeled as Exhibit A, in addition to the consultant's project understanding, approach, schedule, staffing plan, and past performance on City engineering projects.

Criteria	Weight
Engineering Fee	25%
Evaluation of Project Approach	50%
Evaluation of Schedule	25%

The selected consultant will enter into an agreement with the City of Novi to perform the services listed in this Request for Proposals. The City's standard Consulting Engineering Agreement is included as Exhibit C.

PROPOSAL SUBMITTALS

To be considered, sealed fee proposals (an one UNBOUND original and five bound copies) must arrive at the Purchasing Department, 45175 W. Ten Mile Road, Novi, Michigan 48375 on or before **2:00 PM Local Prevailing Time, Wednesday, March 11, 2009** addressed to City Clerk's office, and **clearly labeled 2009 Federally Funded Major Road Projects**. There will be no exceptions to this requirement and the City of Novi shall not be held responsible for late, lost, or misdirected proposals. Submitted proposals shall include one submittal for all three projects that includes:

- The completed fee proposal
- A proposed schedule for each project.
- A rate sheet or fee schedule depicting the Consultant's hourly rates that could be applied to additional work as may be necessary, for each category of staff that would work on the project.
- A detailed discussion of the proposed approach to the project, in detail (including any value-added concepts and related costs/savings that would improve the overall project (i.e., cost savings, time savings, innovation, etc.)). This section shall not contain more than 4 pages single sided for each project.

USE OF CITY LOGO IN YOUR PROPOSAL IS PROHIBITED.

In the hiring of employees for the performance of work under this contract, neither the contractor, subcontractor, nor any person acting in their behalf shall by reason of race, creed, color, age, height, weight, sex, sexual preference or handicap discriminate against any person qualified to perform the work required in the execution of the contract.

All proposals must remain valid for one hundred twenty (120) days from due date and cannot be withdrawn during this period.

Questions regarding this Request for Proposals may be directed to:

Civil Engineer, Brian Coburn, P.E. (248) 735-5632 -or-Civil Engineer, Ben Croy, P.E. (248) 735-5635

The City of Novi reserves the right to accept any or all alternative proposals and to award the project to other than the firm with the lowest fee proposal, waive any irregularities or informalities, or both, to reject any or all proposals, and in general, to make award in any manner deemed by the City, in its sole discretion, to be in the best interests of the City of Novi.

Exhibits

- A Fee Proposal
- B- Background Information
 - Location Map for Projects
 - Draft RFP for Geotechnical services
 - Federal Aid Applications for each project
- C Engineering Consultant Agreement

SCORING SUMMARY

Project Description:

Fed Roads - Meadowbrook

RANK 1= LOW, x= BEST (x = number of firms reponding)

Item weight:	25	50	25	100	
TOTAL SCORES	1	2	3	Totals	Rank
Anderson Eckstein & Westrick	24	13.5	8	1475	3
Fishbeck Thompson Carr & Huber	20	8.5	17	1350	4
Orchard Hiltz & McCliment	12	23	15	1825	1
Stantec	4	8	13	825	6
Spalding DeDecker	16	19	12	1650	2
URS Corporation	8	12	19	1275	5
TOTALS	84	84	84		

SCORING CRITERIA	
1. Engineering fee	25%
2. Evaluation of project approach	50%
Evaluation of schedule	25%

SCORING SUMMARY

Project Description:

Fed Roads - Nine Mile (Meadowbrook-Haggerty)

RANK 1= LOW, x= BEST (x = number of firms reponding)

Item weight:	25	50	25	100	
TOTAL SCORES	1	2	3	Totals	Rank
Anderson Eckstein & Westrick	24	13.5	8	1475	4
Fishbeck Thompson Carr & Huber	20	11.5	17	1500	3
Orchard Hiltz & McCliment	12	20	15	1675	1
Stantec	4	8	13	825	6
Spalding DeDecker	16	19	12	1650	2
URS Corporation	8	12	19	1275	5
TOTALS	84	84	84		

SCORING CRITERIA	
1. Engineering fee	25%
2. Evaluation of project approach	50%
4. Evaluation of schedule	25%

SCORING SUMMARY

Project Description:

Fed Roads - Nine Mile (Taft-Novi)

RANK 1= LOW, x= BEST (x = number of firms reponding)

ltem weight:	25	50	25	100	
TOTAL SCORES	1	2	3	Totals	Rank
Anderson Eckstein & Westrick	24	13.5	8	1475	4
Fishbeck Thompson Carr & Huber	20	12.5	17	1550	3
Orchard Hiltz & McCliment	12	21	15	1725	1
Stantec	4	7	13	775	6
Spalding DeDecker	16	18	12	1600	2
URS Corporation	8	12	19	1275	5

TOTALS 84 84 84

SCORING CRITERIA	
1. Engineering fee	25%
2. Evaluation of project approach	50%
4. Evaluation of schedule	25%

Proposal for Engineering Services for 2008 Federally Funded Major Road Projects

March 11, 2009.





City of Novi

Office of the City Clerk 45175 W. Ten Mile Road Novi, Michigan 48375-3024 OHM is an award winning consulting firm focused on serving government agencies on infrastructure issues. Every day, our staff of engineers, architects, surveyors and specialized technicians strives to fulfill the company's mission, Helping Build Better Communities for Tomorrow.

Helped numerous communities to successfully complete local agency programs (LAP) projects

Experienced team that fully understands these types of projects and that understands MDOT format plans and contracts Communicate to excess so that unexpected extras and time delays are avoided

Experienced in controlling project costs and construction schedules



March 11, 2009



Sue Morianti, Purchasing Manager City of Novi Office of the City Clerk 45175 W. Ten Mile Road Novi, Michigan 48375-3024

Re: 2009 Federally Funded Major Road Projects

Dear Ms. Morianti:

Continued maintenance and rehabilitation work on roadways has proven to be a more cost effective method to maintain a transportation network, than to let a roadway deteriorate to a point where reconstruction is the only option. The 2009 Federally Funded Major Road Projects is another example of the City using these cost effective methods and programs maintain their transportation network.

When utilizing federal funds, it is critical that the consultant is experienced in MDOT processes and plan/contract formats. This will help to avoid the common pitfalls associated with these types of projects:

- Delayed schedule due to missed deadlines (see LAP Project Planning Guide).
- Delayed schedule due to unanticipated requirements that are identified at the GI meeting (such as ADA upgrades).
- Delayed schedule due to inexperience with the MDOT format contracts and specifications.

We have helped many communities to successfully complete local agency programs (LAP) projects. We offer an experienced team who fully understands the success factors in completing these types of projects.

- OHM has and will communicate potential requirements of the LAP process, so that unexpected extras and time delays can be avoided.
- We will help control project costs and the construction schedule with an experienced team that understands MDOT format plans and contracts.

Enclosed is our proposal for the services that will accomplish your goals. If we can provide any additional information, please call me or Mr. Jim Stevens at (734) 522-6711. We look forward to the opportunity to serve the City of Novi on this project.

Respectfully, Orchard, Hiltz & McCliment, Inc.

e Kauli

Vyto kaunelis, PE Principal

34000 Plymouth Road | Livonia, Michigan 48150 p. (734) 522-6711 | f. (734) 522-6427 w ww.ohm-advisors.com

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City of Novi

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Section 1 - Project Understanding and Proposed Approach

Statement of Understanding

Introduction

OHM has reviewed and understands the information and requirements as detailed in the Request for Proposal for the 2009 Federally Funded Major Road Projects, dated February 26, 2009. The City is seeking design and construction engineering services for three major roads to be rehabilitated with a mill and overlay method. The three projects will be partially funded with federal stimulus funds, and will need to go through the LAP process. The three road sections consist of Meadowbrook Road, from Eight Mile to Nine Mile Road, Nine Mile Road, from Haggerty Road to Meadowbrook Road and Nine Mile Road, from Novi Road to Taft Road. The City will contract separately with a geotechnical firm for pavement cores and soil borings.

The POB and POE for each section of roadway is currently proposed to be outside the major mile intersections. The three projects, as listed, have a federal funding amount (50%) of \$340,000, \$340,000, and \$328,000 respectively. The three projects will include a mill and overlay, with various areas of full depth repair, concrete curb and gutter repair, shoulder construction, and drainage improvements.

The consultant will provide design tasks for this project in an MDOT format through the LAP process so that the project can be bid within 90 days of award.

The key to this project will be to create bid documents that can be quickly and efficiently developed, in the MDOT format, while only providing information and details that are necessary. This requires an engineering firm with a proven track record with these types of projects. OHM is that engineer. Most recently we have competed similar projects on Nine Mile Road from Greenfield to Parklawn, Nine Mile Road from Coolidge to Pine Crest, and Newburgh Road from Seven to Eight Mile Roads.

Existing Conditions and Planned Improvements

All three sections consist of a two lane HMA pavement. Widening for left turn and right turn lanes occurs at the major intersections. Sections of these roadways consist of both shoulder with open ditch and concrete curb and gutter. Based upon our field visits the following observations were made along with additional considerations (pictures of select areas along the project routes can be found at the end of this section) :

Meadowbrook Road, from Eight Mile to Nine Mile Road

- 30 MPH posted speed limit
- 0.6 miles 2 lanes HMA with concrete curb/gutter
- 0.4 miles 2 lanes HMA open 8' aggregate shoulder with ditches
- Pavement appears to have good aggregate base stability (no settlement noticed)
- Pavement appears to have good subbase drainage
- Widening lane in front of Meadowbrook Cong. Church (200' by 12') needs to be replaced with new drainage. Area is heavily map cracked.
- Bike Path on west side no sidewalk ADA considerations
- No gaps in laneage that would need to be connected
- No driveways to be closed or combined
- 2 24" to 30" walnuts about 3' back of curb, west side opposite of Lleweln road, require removal per funding application
- Drainage structure rehab
- One curb cut too close
- Curb and gutter in very good condition, less than 5% replacement
- Back of curb drainage for one block, east side just north of 8 Mile
- No left turn lanes into subdivisions (appears they do not need them)

• Left turn lanes exist both at 8 and 9 Mile



From our field review the following scope of services should be considered to be added to those stated in the RFP, but were not included in the cost quote:

- Consider enclosing the back of curb drainage mentioned above
- Sidewalk on the west side upgraded to current standards

Nine Mile Road, from Meadowbrook Road to Haggerty Road

- 35 MPH posted speed limit
- Pavement consists of 2 Lanes HMA with:
 - Concrete curb and gutter on the north end and open aggregate shoulder on the south end from Haggerty to about 800' east
 - o Open shoulders on both sides for 1200' (11' lanes with
 - 8' aggregate shoulders)
 - o 1600' curb/gutter on both sides
 - o Remainder is open shoulder on both sides
- No driveway removals or consolidation needed
- Left turn lane at Meadowbrook (10' wide)
- Left turn lane at Haggerty with a dedicated right turn
- Right turn lane at Haggerty needs to be removed and replaced (150' long) due to its poor condition. Drainage problem.
- Sidewalk on north side, not continuous
- Less than 5% removal and replacement of curb and gutter
- Approach pavements are in very poor condition at Crosswinds West and the approach opposite Cranbrook Drive
- Conflicting drives exist throughout the project
- Approx. 2000' of one-lane needs to removed and replaced due to poor condition
- Some trees exist at about 5' behind B/C, no sight distance problems, check clear zone requirements, tree removal required per application
- Site Distance at south east corner at Taft Road
- The lane widths of the open shoulder pavement is about 11'
- Limited road side drainage on the south side just east of Meadowbrook Road
- Sidewalk Ramps do not meet current standards
- Structure rehab
- Some drive culverts exist

From our field review the following scope of services should be considered to be added to those stated in the RFP, but were not included in the cost quote:

- Upgrade sidewalk ramps along the north side to current standards
- Upgrade road side drainage on south side just east of Meadowbrook Road

Nine Mile Road, from Taft Road to Novi Road

- Posted 30 MPH
- 2-lane road, 24' wide HMA with concrete curb/gutter full length
- Substantial Curb and Gutter Replacement
- Driveways are ok, no removal or consolidation needed
- At one low point of the road the pavement needs to be removed and replaced (200') subsurface drainage is inadequate.
- Existing retaining wall on south side of road at low point may need to be removed or replaced.
- Guard rail may be needed near steep slope on north side of road west of Novi Road.



- Boulders in the ROW need to removed.
- Roadway has a number of steep hills; sight distance may be an issue. Possible design exception may be needed.
- Possible sight distance issue at Taft Road
- Ponding water in gutter pan on south side of road at high point
- Approach pavements are in very poor condition.
- At Novi Road south side has dedicated right and left.
- Sidewalk ramps do not meet current standards.

From our field review the following scope of services should be considered to be added to those stated in the RFP, but was not included in the cost quote:

- Consider removal or replacement of retaining wall at low point.
- · Consider installation of guard rail adjacent to severe slope on north side of Nine Mile Road.
- Improve site distance at southeast corner at Taft Road (per funding application)
- Based upon available budget consider additional curb and gutter replacement.
- Upgrade sidewalk ramps to current standards.

Based upon the federal aid application, the City proposes to construct a pathway along the east side of Meadowbrook Road in conjunction with this project. We will coordinate this work with the City at the project kick off meeting.

Project Approach

OHM is committed to providing the highest quality service for the satisfactory completion of this project. We have assigned an experienced and knowledgeable project team who are driven to provide cost-effective services and innovative solutions to project challenges. They are ready to begin working on this project immediately upon receipt of a notice to proceed.

In addition to a thorough review of all work products leaving our office, as part of our internal quality assurance/quality control process, the complete project design will reviewed for its low-cost approach and constructability. Our goal is to complete the project in the most cost effective manner possible, while demonstrating the highest performance in our services.

The proposed project scope for the rehabilitation of these roadways consists of milling the existing surface and overlaying with 3" HMA, 1-1/4" of wearing course and 1-3/4" of leveling course, with areas that will require full depth repair consisting of 6"HMA with 9 to 12" of aggregate base course and drainage improvements. The open shoulder sections will be improved from an existing gravel shoulder of varying width to a 3' paved shoulder and 5' aggregate shoulder. The sections of roadway that contain concrete curb and gutter will have minimal to substantial repairs/replacement.

The soil investigation will confirm the proposed pavement sections above. Based upon the results of the soil analysis, alternatives to the planned methods of rehabilitation could arise. OHM can quickly analyze these alternatives and provide options to the City. With the City's participation and the geotechnical consultant assistance, OHM will propose alternatives to determine the most appropriate plan of action for these improvements.

Our team will coordinate with the City and MDOT, as well as, permitting agencies, and other parties to address key issues throughout the project.

Pavement Logging

Our experienced construction staff will log all necessary pavement work to be included in the construction for these projects. In addition to the items already noted, specific areas that should be repaired to help



prolong the life of the roadway will be identified. These areas include, full depth construction, concrete curb and gutter, side street approaches, and drives.

Storm Sewer Structures

As part of the project logging, storm structures within the influence of the project will identified and inventoried for needed repairs. These structures will also be identified for needed outlets for the areas that require sub-surface drainage improvements.

Franchise Utilities

Although utility impacts are not anticipated, OHM will notify franchise utility companies of the proposed construction project to receive feedback prior to construction.

Traffic Control

It is anticipated that this work can be performed utilizing the standard MDOT detail for temporary lane closures. However, based upon the results of the pavement cores and soil borings, (existing HMA thickness) additional traffic control may be necessary.

MDOT LAP Process

Our experience time will help guide the City and this project through the MDOT LAP process. Under new federal guidelines, MDOT is requiring a mobility analysis to be completed on any project that is anticipated to cause more than a 10 minute traffic delay to motorists. The preparation of a traffic crash analysis is typically required on all federal aid design projects. Prepare project programming forms to enter project into MDOT's tracking system. This is typically prepared and submitted prior to the GI meeting.

Additional Items not listed in the RFP

We have identified the following items that are not listed in the RFP but thought to be required:

- Removal and replacement of sidewalk ramps that do not meet current standards. It is anticipated that MDOT will require this for ramps within the limits of the project. Some ramps along the project route will require topographic survey.
- Design and construction of a section of guard rail along Nine Mile Road.

In additional to the items thought to be required, the federal aid application for Meadowbrook Road stated that a pathway would be constructed in conjunction with the Meadowbrook Road project to improve non-motorized modes. We would be happy assist the City in this venture.

These items have been identified to demonstrate our understanding of the project and the process, however, we have not included these efforts in our price proposal in order to be competitive with other firms in the rating and scoring of this proposal.

It has been our experience that the inspector day specification is not allowed for use within MDOT format projects. However, we have included a price for inspector days along with our estimate of the number of days that would be required, and anticipate that this item will be negotiated with the City.

Value Added Items

OHM will include the following Value Added Items in the completion of the project:

1. Experience – With a tight schedule time frame, this is not project for the novice designer or engineering firm to tackle. We understand the importance of this project to the city and we understand MDOT's LAP process. We will quickly and efficiently design this project. We have great working relationship with MDOT's Oakland County LAP plan reviewer, Brent Schriner to enhance the projects process. The Director of MDOT, Kirk T. Steudle, P.E., is quoted as saying, "OHM has proven that they are leaders in



our industry. Their involvement with recent high profile projects and leadership with statewide initiatives clearly demonstrates that they are living their tagline of advancing communities."

- 2. Bulk Rate Discount OHM can safely say that this project has the potential to realize significant cost savings if prepared and possibly bid and built as one project. The required details of all three projects are not significantly different. Effort would be deleted in the preparation of common items required in all three projects (ie. Special provisions, three GI meetings, and miscellaneous details). We have provided a separate fee determination form if all three projects are awarded to one consultant, combined and bid out as one project.
- 3. ADA Compliance We have been a leading expert in ADA compliant pedestrian facilities and have hosted educational seminars to educate our region. From our experience, the City should anticipate that MDOT will require the upgrade of adjacent pedestrian facilities to current standards. From our site visits, there are numerous areas where the sidewalk would need to be upgraded.
- 4. Alternatives Based upon our field visits, and our understanding of the federal funding allotment, the City would currently need to subsidize the funding allotment above and beyond the 50% match to build the project as currently proposed. There are variations of the milling and overlay options that could substantially reduce project costs. One such option would be to minimize the milling operation, by simply building up the pavement section. This is easily accomplished through the open ditch sections, and through the curb sections the overlay would extend to the face of curb. This option would save substantial construction costs with not only the milling, but the traffic control, and project duration. We would explore this option and others with the City at the project kick-off meeting.

Design, Plan Submittal and Review, and Bid Process

The required process for these three projects is very similar; we would apply this process to each of the three projects. As stated earlier, we believe the City can realize a substantial savings if these three projects can be combined into one design and bid process.

Task 1 - Collect Information and Data, and Coordination with City's Geotechnical Firm

Under this task, we will perform one (1) site visit, and the following information will be gathered from available records:

- 1. Meet with City staff to verify scope of the project. At this meeting OHM will seek information known by the City's DPW/Engineering that may affect the design. Design standards and preferences will also be discussed. This will also include a visit to the project site to identify potential issues that may affect the design.
- 2. Although utility impacts are not anticipated, OHM will request private utility records from the franchise utility companies. Construction operations sometimes affect utility facilities without being in direct conflict.
- 3. Coordinate the locations of the needed soil borings with the City's geotechnical Engineer to identify the location of the pavement cores and soil borings. Often OHM will paint the required locations for the geotechnical company.

Task 2 - Base Plan Design

As this project has a very aggressive design schedule with a fairly simple scope of work, the Base Plan development will be submitted to the City for an expedited review at the 30 percent complete stage.



However, with this submittal, the design will continue while waiting for City comments. Specific work efforts include:

- 1. Prepare log plans for the specific section of road work. This will include typical sections, and maintenance of traffic concepts.
- 2. Prepare a cost opinion based on preliminary proposed improvement plans.
- 3. Submit four (4) sets of preliminary plans and engineer's opinion of probable cost at 30% complete to the City for review.
- 4. Address the City's comments regarding the 30% plan submittal.

Task 3 - Preliminary Plan Design

Once comments are obtained from the City on the base plans, comments will be incorporated into the Preliminary Plans (GI). Specific work efforts include:

- 1. Prepare details of the design such as detailed grading, pavement marking and signing details, and miscellaneous details needed to construct this project.
- 2. Prepare MDOT style specifications for non-standard pay items, Maintenance of traffic, Utility Coordination and to develop the Progress Clause (contactor schedule).
- 3. Prepare and submit a soil erosion and sedimentation control plan meeting the requirements of the City's Code Ordinances and SESC Program Manual.
- Prepare an RCOC Construction Right-of-Way and Wayne County permit application for construction signing to be placed on Haggerty Road and Eight Mile Road, and upon City signature, submit it with four (4) sets of 90% plans for permitting.
- 5. Submit 1 set of plans, project specifications and engineer's opinion of probable cost to MDOT for GI review.
- 6. Submit four (4) sets of plans, one (1) set of specifications and engineer's opinion of probable cost at 90% complete to the City for review and comments.
- 7. Meet MDOT and the City to hold the required GI Meeting.

- 8. Address GI plan review comments and prepare a final Engineer's Opinion of Construction Costs.
- 9. Submit 1 set of final plans and engineer's opinion of probable cost in SAPW or MERL format to MDOT for the development of the final bidding documents.
- 10. Submit four (4) sets of plans, one (1) set of specifications and engineer's opinion of probable cost at 100% complete to the City for final review and comments.
- 11. Revise the log design and submit revised sheets as necessary to address any final comments. Provide markups to MDOT of the bid proposal including the final estimate. A digital copy of the final plans formatted into AutoCAD will be provided to the City on a CD.
- 12. Provide assistance to the MDOT during bidding, including responding to bidder inquiries and discussing the bid results with the City.

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Construction Services

Task 4 – Construction

Under this task we will perform construction observation and administration as follows:

- 1. Coordinate and facilitate a pre-construction meeting with the City of Novi, MDOT, the selected Contractor, and other interested parties. Prepare and issue pre-construction meeting minutes to attendees.
- 2. It is anticipated that construction staking will not be needed for the planned improvements as outlined in this Proposal.
- 3. Provide full-time daily construction observation during active periods of work on the project. The OHM representative's primary responsibility will be to observe the Contractor's work to verify that the materials, installation and construction methods used are in conformance with the project plans and specifications, and to perform SESC enforcement as an agent for the City under the Authorized Public Agency (APA) program in compliance with the City's Authorized Public Agency SESC Manual.

Daily Field Reports will be prepared in accordance with current MDOT and City of Novi standards to document work and record quantities of contract pay items.

- 4. Attend to resident concerns and complaints during the construction. OHM representatives will contact residents and meet if possible, to assist in resolving any project-related problems or complaints.
- 5. Coordinate the construction activities with other local agencies and departments, such as the school districts, police, and the fire department.
- 6. Provide reviews of project-related material certifications.
- 7. Provide documents to the City in an electronic format as specified by the Engineering Division.
- 8. Provide construction materials and soil density testing in accordance with accepted quality assurance and quality control practices. This work will be performed by Soils & Materials Engineers, Inc.
- 9. Perform contract administration in MDOT's Field Manager software for tracking of the contractors bid item work. Provide construction engineering services, assuring compliance with the contract documents, regular consultation with the City's engineering staff, interpretation of plans and specifications, processing of contractor pay requests, issuing of change orders, review of shop drawings and project supervision.
- 10. Conduct final inspection including preparation of punch list and a certificate of substantial completion.
- 11. Schedule bi-weekly progress meetings with the contractor and the City.
- 12. As this is a log project the preparation as-builts will consist only in the documentation of underground work. OHM will transmit one (1) digital copy of as-built plan in .tif format (400dpi minimum), two (2) plan copies, and a CD containing the digital file of the record drawings in AutoCAD format. These drawings will be provided to the City Engineering Department within three (3) months following substantial completion of the project.

Existing Condition Photographs



Meadowbrook Road, Eight to Nine Mile Roads – Open shoulder section looking south



Nine Mile Road, Taft to Novi Roads – Failed retaining wall causing curb and pavement settlement





Nine Mile Road, Taft to Novi Roads -Location of severe slope within clear zone



Nine Mile Road, Taft to Novi Roads -Location of potential vertical alignment, sight distance issue





Nine Mile Road, Taft to Novi Roads – Location of sidewalk ramp that is not ADA compliant



Nine Mile Road, Taft to Novi Roads – Location of potential sight distance issue



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Nine Mile Road, Meadowbrook to Haggerty Roads – Location of potential roadside drainage improvements



Nine Mile Road, Meadowbrook to Haggerty Roads – Photograph looking east to Haggerty Road

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Engineering Services for the City of Novi 2009 Federally Funded Major Road Projects

Section 2 - Proposed Schedule

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	Meadowbrook Road - Eight Mile to Nine Mile						
	l-	March 5, 2	sign Scr 2009	leaule			
a	Task Name	Duration Start	Finish	June November			
1	Authoriztion to Proceed	1 day Tue 3/24/09	Tue 3/24/09				
2	Design Phase	117 days Wed 3/25/09	Fri 9/4/09				
3	Pre-design meeting or discussion with City Engineer	1 day Fri 3/27/09	Fri 3/27/09				
4	Predesign meeting internal	1 day Mon 3/30/09	Mon 3/30/09				
5	Stations roadway for review and logging of pavement	1 day Tue 3/31/09	Tue 3/31/09				
6	Field log of repairs	2 days Wed 4/1/09	Thu 4/2/09				
7	Prepare base geometric concepts	5 days Wed 3/25/09	Tue 3/31/09				
8	Crash Data forwarded to OHM from City (if added to Scope)	1 day Mon 4/13/09	Mon 4/13/09				
9	Prepare Project Crash Analysis (if added to Scope)	3 days Tue 4/14/09	Thu 4/16/09				
10	QA/QC Base Plan and Revisions	2 days Wed 4/1/09	Thu 4/2/09				
11	Submit Base Plan to City	1 day Fri 4/3/09	Fri 4/3/09				
12	Base Plan Review Meeting	1 day Mon 4/13/09	Mon 4/13/09				
13	Programming forms forwarded to MDOT	1 day Tue 4/21/09	Tue 4/21/09				
14	Preliminary Design	8 days Tue 4/14/09	Thu 4/23/09				
15	QA/QC review and revisions	2 days . Fri 4/24/09	Mon 4/27/09	91			
16	90% Submittal to MDOT & City	1 day Tue 4/28/09	Tue 4/28/09				
17	MDOT & City review	17 days Wed 4/29/09	Thu 5/21/09				
18	GI Review meeting	1 day Fri 5/22/09	Fri 5/22/09				
19	Develop Final Design	5 days Mon 5/25/09	Fri 5/29/09				
20	QA/QC review and revisions	1 day Mon 6/1/09	Mon 6/1/09				
21	100% Submittal to MDOT & City	1 day Tue 6/2/09	Tue 6/2/09				
22	MDOT & City review	9 days Wed 6/3/09	Mon 6/15/09				
23	Final Corrections of bid documents	5 days Tue 6/16/09	Mon 6/22/09				
24	Final submittal to MDOT	1 day Tue 6/23/09	Tue 6/23/09	· •			
25	Construction bid opening	0 days Fri 9/4/09	Fri 9/4/09	◆ -9/4			
26	Construction Phase	31 days Fri 10/2/09	Fri 11/13/09				
27	Road construction	31 days Fri 10/2/09	Fri 11/13/09				
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	City of Novi Nine Mile Road - Haggerty to Meadowbrook							
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7	Prepare base geometric co	ncepts	5 days	Wed 3/25/09	Tue 3/31/09		:	
8	Crash Data forwarded to C	HM from City (if added to Scope)	1 day	Mon 4/13/09	Mon 4/13/09		-	1
9	Prepare Project Crash Ana	lysis (if added to Scope)	3 days	Tue 4/14/09	Thu 4/16/09	F	-	
10	QA/QC Base Plan and Rev	visions	2 days	Wed 4/1/09	Thu 4/2/09		:	
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12	Base Plan Review Meeting]	1 day	Mon 4/13/09	Mon 4/13/09		-	
13	13 Programming forms forwarded to MDOT		1 day	Tue 4/21/09	Tue 4/21/09	4	· · ·	
14	14 Preliminary Design		8 days	Tue 4/14/09	Thu 4/23/09	L La Con	-	
15	15 QA/QC review and revisions		2 days	Fri 4/24/09	Mon 4/27/09		:	
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18	GI Review meeting		1 day	Fri 5/22/09	Fri 5/22/09	L		
19	Develop Final Design		5 days	Mon 5/25/09	Fri 5/29/09			
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25	Construction bid opening		0 days	Fri 9/4/09	Fri 9/4/09		- -	9 /4
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City of Novi Nine Mile Road - Novi to Taft Rehabilitation Design Schedule						
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8 Crash	Data forwarded to OHM	I from City (if added to Scope)	1 day	Mon 4/13/09	Mon 4/13/09	
9 Prepar	re Project Crash Analysi	s (if added to Scope)	3 days	Tue 4/14/09	Thu 4/16/09	
10 QA/QC	C Base Plan and Revisio	ons	2 days	Wed 4/1/09	Thu 4/2/09	
11 Submi	it Base Plan to City		1 day	Fri 4/3/09	Fri 4/3/09	
12 Base I	Plan Review Meeting		1 day	Mon 4/13/09	Mon 4/13/09	
13 Progra	amming forms forwarded	to MDOT	1 day	Tue 4/21/09	Tue 4/21/09	
14 Prelim	iinary Design		8 days	Tue 4/14/09	Thu 4/23/09	
15 QA/Q0	C review and revisions		2 days	Fri 4/24/09	Mon 4/27/09	
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23 Final	Corrections of bid docun	nents	5 days	Tue 6/16/09	Mon 6/22/09	
24 Final	submittal to MDOT		1 day	Tue 6/23/09	Tue 6/23/09	
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17 MDOT & City review 17 days Tue 5/5/09 Wed 5/27/09	
18 GI Review meeting 1 day Thu 5/28/09 Thu 5/28/09	
19 Develop Final Design 10 days Fri 5/29/09 Thu 6/11/09	
20 QA/QC review and revisions 1 day Fri 6/12/09 Fri 6/12/09	
21 100% Submittal to MDOT & City 1 day Mon 6/15/09 Mon 6/15/09	
22 MDOT & City review 9 days Tue 6/16/09 Fri 6/26/09	
23 Final Corrections of bid documents 5 days Mon 6/29/09 Fri 7/3/09	
24 Final submittal to MDOT 1 day Mon 7/6/09 Mon 7/6/09	
25 Construction bid opening 0 days Fri 9/4/09 Fri 9/4/09	
26 Construction Phase 205 days Fri 10/2/09 Thu 7/15/10	
27 Road construction 205 days Fri 10/2/09 Thu 7/15/10	
Task Milestone 📤 External Tasks	
Project: prop sched Summary External Milestone	
pgw Progress Project Summary Deadline	



Engineering Services for the City of Novi 2009 Federally Funded Major Road Projects

Section 3 – Fee Proposal Overview Exhibit A Rate Schedule

NUMBER OF BRIDE OF BRIDE DOCUMENT



Fee Proposal Overview

We have attached three fee schedules as part of this proposal. The first fee proposal outlines our fees based upon our understanding of these projects, and assumes that these projects can be awarded individually. This fee schedule is based upon our site visit and understanding that this project will likely include more work than the \$340,000 construction cost estimate that is provided for in the RFP. This fee excludes ADA ramp upgrades, guard rail installation, and other ancillary improvements not requested in the RFP.

The second fee proposal assumes the same as the above, but that OHM is awarded all three projects, and that these projects can be combined and bid as one project. We feel that awarding these three projects to OHM and combining and bidding these projects as one, offers substantial benefit to the City.

The third fee proposal is for reference only. This fee was generated based upon the construction cost estimates that were in the funding application and the RFP will not be significantly exceeded. We have generated this fee so that the City may have a comparison to the other consultants who based their effort of the \$340,000 construction cost estimate. We do not recommend this option, since it appears that a greater level of rehabilitation is desirable.

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EXHIBIT A FEE PROPOSAL

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS

We the undersigned propose to furnish to the City of Novi services consistent with the Request for Qualifications dated January 11, 2007 and Request for Proposals dated February 27, 2009 respectively. Design fees will be paid on an hourly basis for actual work performed to a maximum as proposed. A separate fee schedule is being provided should the City request additional work on an hourly basis.

Project	Phase			Total Fee
	Design Phase (not-to-exceed fee)	\$ 23,700		
	Contract Administration (not-to-exc	\$ 9,800		
PROJECT 1-	A) Inspection Fee per Crew Day:	\$_608_	/day	
Meadowbrook (Eight Mile to Nine Mile)	B) Estimated Number of Crew Days:		_days	
	Total Estimated Inspection Fee (A:	k B, above)*		\$ 21,280
	TOTAL ENGINEERING FEE FOR	\$ 54,780		
a mað með her a Billan halssnið hvorð í ser ger se ann förskin handa försking.	Design Phase (not-to-exceed fee)			\$ 23,700
	Contract Administration (not-to-exc	\$ 9,800		
Project 2-Nine Mile	A) Inspection Fee per Crew Day:	\$ <u>608</u>	/day	
(Meadowbrook to Haggerty)	B) Estimated Number of Crew Days:	35	_days	
	Total Estimated Inspection Fee (A)	\$ 21,280		
	TOTAL ENGINEERING FEE FOR	\$ 54,780		
	Design Phase (not-to-exceed fee)			\$ 25,200
	Contract Administration (not-to-exc	\$ 9,800		
Project 3 Nine Mile	A) Inspection Fee per Crew Day:	\$ <u>608</u> /	/day	
(Novi to Taft)	B) Estimated Number of Crew Days:		days	
	Total Estimated Inspection Fee (A>	\$ 18,240		
	TOTAL ENGINEERING FEE FOR	\$ 53,240		

*Only Design Fees will be awarded at the time of initial award. Contract Administration and Construction Inspection fees will be awarded at the time of construction award. At that time, the number of crew days will be provided by the contractor. The total inspection fees will be determined by using the Inspection Cost per Crew Day (provided by the consultant, above) and the Number of Crew Days to be provided by the Contractor. Estimate crew days are used for estimated fee calculation only.

EXHIBIT A FEE PROPOSAL

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS (CONTINUED)

PLEASE TYPE:

Company Name:Orchard, Hiltz & McCliment, Inc.
Address: 34000 Plymouth Road, Livonia, MI 48150
Agent's Name:
Agent's Title:Principal
Agent's Signature: Kauli
Telephone Number: <u>734-522-6711</u> Fax Number: <u>734-522-6427</u>
E-mail Address: vvto.kaunelis@ohm-advisors.com Date: March 11, 2009

* With cost savings based on combining into one project



EXHIBIT A FEE PROPOSAL^{*}

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS

We the undersigned propose to furnish to the City of Novi services consistent with the Request for Qualifications dated January 11, 2007 and Request for Proposals dated February 27, 2009 respectively. Design fees will be paid on an hourly basis for actual work performed to a maximum as proposed. A separate fee schedule is being provided should the City request additional work on an hourly basis.

Project	Phase		Total Fee
	Design Phase (not-to-exceed fee)	\$ 18,500	
	Contract Administration (not-to-exc	\$ 6,700	
PROJECT 1-	A) Inspection Fee per Crew Day:	\$ <u>608</u> /day	
Meadowbrook (Eight Mile to Nine Mile)	B) Estimated Number of Crew Days:	<u>35</u> days	
	Total Estimated Inspection Fee (A	k B, above)*	\$ 21,280
	TOTAL ENGINEERING FEE FOR	PROJECT 1	\$ 46,480
	Design Phase (not-to-exceed fee)		\$ 18,500
	Contract Administration (not-to-exc	\$ 6,700	
Project 2-Nine Mile	A) Inspection Fee per Crew Day:	\$ <u>608</u> /day	
(Meadowbrook to Haggerty)	B) Estimated Number of Crew Days:	_ <u>35</u> _days	
	Total Estimated Inspection Fee (A)	\$ 21,280	
	TOTAL ENGINEERING FEE FOR	\$ 46,480	
	Design Phase (not-to-exceed fee)		\$ 19,900
	Contract Administration (not-to-exc	\$ 6,700	
Broject 2 Nine Mile	A) Inspection Fee per Crew Day:	\$ <u>608</u> /day	
(Novi to Taft)	B) Estimated Number of Crew Days:	<u>30</u> days	
	Total Estimated Inspection Fee (A)	\$ 18,240	
	TOTAL ENGINEERING FEE FOR	\$ 44,840	

*Only Design Fees will be awarded at the time of initial award. Contract Administration and Construction Inspection fees will be awarded at the time of construction award. At that time, the number of crew days will be provided by the contractor. The total inspection fees will be determined by using the Inspection Cost per Crew Day (provided by the consultant, above) and the Number of Crew Days to be provided by the Contractor. Estimate crew days are used for estimated fee calculation only.

* With cost savings based on combining into one project

EXHIBIT A FEE PROPOSAL^{*}

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS (CONTINUED)

PLEASE TYPE:

Company Name: Orchard, Hiltz & McCliment, Inc.
Address: 34000 Plymouth Road, Livonia, MI 48150
Agent's Name: Vyto Kaunelis, PE
Agent's Title: Principal
Agent's Signature: <u>Cyte Mauli</u>
Telephone Number: 734-522-6711 Fax Number: 734-522-6427
E-mail Address: vyto.kaunelis@ohm-advisors.com Date:March 11, 2009

** Based on \$340,000 construction cost



EXHIBIT A FEE PROPOSAL**

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS

We the undersigned propose to furnish to the City of Novi services consistent with the Request for Qualifications dated January 11, 2007 and Request for Proposals dated February 27, 2009 respectively. Design fees will be paid on an hourly basis for actual work performed to a maximum as proposed. A separate fee schedule is being provided should the City request additional work on an hourly basis.

Project	Phase		Total Fee
	Design Phase (not-to-exceed fee)	\$ 19,700	
	Contract Administration (not-to-exc	\$ 7,500	
PROJECT 1-	A) Inspection Fee per Crew Day:	\$ <u>608</u> /day	
Meadowbrook (Eight Mile to Nine Mile)	B) Estimated Number of Crew Days:	_25days	
	Total Estimated Inspection Fee (A	x B, above)*	\$ 15,200
	TOTAL ENGINEERING FEE FOR	PROJECT 1	\$ 42,400
	Design Phase (not-to-exceed fee)		\$ 19,700
	Contract Administration (not-to-exc	\$ 7,500	
Project 2-Nine Mile	A) Inspection Fee per Crew Day:	\$ <u>608</u> /day	
(Ńeadowbrook to Haggerty)	B) Estimated Number of Crew Days:	days	
	Total Estimated Inspection Fee (A)	\$ 15,200	
	TOTAL ENGINEERING FEE FOR	\$ 42,400	
	Design Phase (not-to-exceed fee)		\$ 21,200
	Contract Administration (not-to-exc	\$ 7,500	
Project 2Nino Milo	A) Inspection Fee per Crew Day:	\$ <u>608</u> /day	
(Novi to Taft)	B) Estimated Number of Crew Days:	days	
	Total Estimated Inspection Fee (A)	\$ 13,376	
	TOTAL ENGINEERING FEE FOR	\$ 42,076	

*Only Design Fees will be awarded at the time of initial award. Contract Administration and Construction Inspection fees will be awarded at the time of construction award. At that time, the number of crew days will be provided by the contractor. The total inspection fees will be determined by using the Inspection Cost per Crew Day (provided by the consultant, above) and the Number of Crew Days to be provided by the Contractor. Estimate crew days are used for estimated fee calculation only.

** Based on \$340,000 construction cost

EXHIBIT A FEE PROPOSAL **

ENGINEERING SERVICES FOR 2009 FEDERALLY FUNDED MAJOR ROAD PROJECTS (CONTINUED)

PLEASE TYPE:

Company Name: Orchard, Hiltz & McCliment, Inc.
Address: 34000 Plymouth Road, Livonia, MI 48150
Agent's Name:
Agent's Title: Principal
Agent's Signature: The Rauli
Telephone Number:734-522-6711 Fax Number:734-522-6427
E-mail Address: vyto.kaunelis@ohm-advisors.comDate:March 11, 2009



2009 RATE SCHEDULE

Graduate Engineer I	\$ 88.00
Graduate Engineer II	\$ 93.00
Graduate Engineer III	\$ 104.00
Professional Engineer I/Architect I	\$ 98.00
Professional Engineer II/Architect II	\$ 107.00
Professional Engineer III/Architect III	\$ 113.00
Professional Engineer IV/Architect IV	\$ 135.00
Technician I	\$ 60.00
Technician II	\$ 76.00
Technician III	\$ 90.00
Technician IV	\$ 100.00
Professional Surveyor	\$ 110.00
Graduate Surveyor	\$ 88.00
Surveyor I	\$ 65.00
Surveyor II	\$ 82.00
Surveyor III	\$ 86.00
Surveyor Aide	\$ 46.00
GIS Analyst I	\$ 87.00
GIS Analyst II	\$ 103.00
GIS Analyst III	\$ 124.00
IT Technician I	\$ 85.00
IT Technician II	\$ 128.00
IT Technician III	\$ 155.00
DB/AD Developer	\$ 160.00
Administrative Support	\$ 50.00
Clerical Aide	\$ 40.00
Engineering Aide	\$ 46.00
Principal	\$ 150.00
Senior Associate	\$ 145.00
Associate	\$ 140.00
Manager	\$ 140.00