

**AGREEMENT BETWEEN
NORTHWEST CONSULTANTS, INCORPORATED
AND THE CITY OF ANN ARBOR
FOR PROFESSIONAL SERVICES**

The City of Ann Arbor, a Michigan municipal corporation, having its offices at 301 E. Huron Street, Ann Arbor, Michigan 48104 ("City"), and Northwest Consultants, Incorporated ("Consultant") an Ohio Corporation with its address at 3220 Central Park West, Toledo, Ohio 43617 agree as follows on this _____ day of _____ 2014.

The Consultant agrees to provide professional services to the City under the following terms and conditions:

I. DEFINITIONS

Administering Service Area/Unit means Project Management Services Unit.

Contract Administrator means Nicholas Hutchinson, P.E., acting personally or through any assistants authorized by the Administrator/Manager of the Administering Service Area/Unit.

Deliverables means all Plans, Specifications, Reports, Recommendations, and other materials developed for or delivered to City by Consultant under this Agreement

Project means Stadium Boulevard Reconstruction Project – Hutchins to Kipke Drive; File No.: 2014-035.

II. DURATION

This Agreement shall become effective on _____, 2014, and shall remain in effect until satisfactory completion of the Services specified below unless terminated as provided for in this Agreement.

III. SERVICES

- A. The Consultant agrees to provide professional engineering services ("Services") in connection with the Project as described in Exhibit A. The City retains the right to make changes to the quantities of service within the general scope of the Agreement at any time by a written order. If the changes add to or deduct from the extent of the services, the contract sum shall be adjusted accordingly. All such changes shall be executed under the conditions of the original Agreement.

- B. Quality of Services under this Agreement shall be of the level of professional quality performed by experts regularly rendering this type of service. Determination of acceptable quality shall be made solely by the Contract Administrator.

- C. The Consultant shall perform its Services for the Project in compliance with all statutory, regulatory and contractual requirements now or hereafter in effect as may be applicable to the rights and obligations set forth in the Agreement.
- D. The Consultant may rely upon the accuracy of reports and surveys provided to it by the City except when defects should have been apparent to a reasonably competent professional or when it has actual notice of any defects in the reports and surveys.

IV. COMPENSATION OF CONSULTANT

- A. The Consultant shall be paid in the manner set forth in Exhibit B. Payment shall be made monthly, unless another payment term is specified in Exhibit B, following receipt of invoices submitted by the Consultant, and approved by the Contract Administrator. Total compensation payable for all Services performed during the term of this Agreement shall not exceed \$930,822.00.
- B. The Consultant will be compensated for Services performed in addition to the Services described in Section III, only when those additional Services have received prior written approval of the Contract Administrator. Compensation will be payable according to the fee schedule in Exhibit B. The Contract Administrator shall be the sole arbitrator of what shall be considered “reasonable” under this provision.
- C. The Consultant shall keep complete records of time spent and materials used on the Project so that the City may verify invoices submitted by the Consultant. Such records shall be made available to the City upon request and submitted in summary form with each invoice.

V. INSURANCE/INDEMNIFICATION

- A. The Consultant shall procure and maintain during the life of this contract, such insurance policies, including those set forth in Exhibit C, as will protect itself and the City from all claims for bodily injuries, death or property damage which may arise under this contract; whether the acts were made by the Consultant or by any subcontractor or anyone employed by them directly or indirectly. In the case of all contracts involving on-site work, the Contractor shall provide to the City, before the commencement of any work under this contract, documentation demonstrating it has obtained the policies required by Exhibit C.
- B. Any insurance provider of Consultant shall be admitted and authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company’s Key Rating Guide of “A-“ Overall and a minimum Financial Size Category of “V”. Insurance policies and certificates issued by non-admitted insurance companies are not acceptable unless approved in writing by the City.

- C. To the fullest extent permitted by law, the Consultant shall indemnify, defend and hold the City, its officers, employees and agents harmless from all suits, claims, judgments and expenses including attorney's fees resulting or alleged to result from any acts or omissions by the Consultant or its employees and agents occurring in the performance of or breach in this Agreement.

VI. COMPLIANCE REQUIREMENTS

- A. Nondiscrimination. The Consultant agrees to comply, and to require its subcontractor(s) to comply, with the nondiscrimination provisions of Section 209 of the Elliot-Larsen Civil Rights Act (MCL 37.2209) The Contractor further agrees to comply with the nondiscrimination provisions of Chapter 112 of the Ann Arbor City Code and to assure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity.
- B. Living Wage. The Consultant is a “covered employer” as defined in Chapter 23 of the Ann Arbor City Code and agrees to comply with the living wage provisions of Chapter 23 of the Ann Arbor City Code. The Consultant agrees to pay those employees providing Services to the City under this Agreement a “living wage,” as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Agreement are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

VII. WARRANTIES BY THE CONSULTANT

- A. The Consultant warrants that the quality of its Services under this Agreement shall conform to the level of professional quality performed by experts regularly rendering this type of service.
- B. The Consultant warrants that it has all the skills, experience, and professional licenses necessary to perform the Services specified in this Agreement.
- C. The Consultant warrants that it has available, or will engage, at its own expense, sufficient trained employees to provide the Services specified in this Agreement.
- D. The Consultant warrants that it is not, and shall not become overdue or in default to the City for any contract, debt, or any other obligation to the City including real and personal property taxes.

VIII. TERMINATION OF AGREEMENT

- A. If either party is in breach of this Agreement for a period of fifteen (15) days following receipt of notice from the non-breaching party with respect to a breach, the non-breaching party may pursue any remedies available to it against the breaching party under applicable law, including but not limited to, the right to terminate this Agreement without further notice.
- B. The City may terminate this Agreement, on at least thirty (30) days advance notice, for any reason, including convenience, without incurring any penalty, expense or liability to the Consultant except the obligation to pay for Services actually performed under the Agreement before the termination date.
- C. Consultant acknowledges that, if this Agreement extends for several fiscal years, continuation of this Agreement is subject to appropriation of funds for this Project. If funds to enable the City to effect continued payment under this Agreement are not appropriated or otherwise made available, the City shall have the right to terminate this Agreement without penalty at the end of the last period for which funds have been appropriated or otherwise made available by giving written notice of termination to the Consultant. The Contract Administrator shall give the Consultant written notice of such non-appropriation within thirty (30) days after it receives notice of such non-appropriation.
- D. The remedies provided in this Agreement will be cumulative, and the assertion by a party of any right or remedy will not preclude the assertion by such party of any other rights or the seeking of any other remedies.

IX. OBLIGATIONS OF THE CITY

- A. The City agrees to give the Consultant access to the Project area and other City-owned properties as required to perform the necessary Services under this Agreement.
- B. The City shall notify the Consultant of any defects in the Services of which the Contract Administrator has actual notice.

X. ASSIGNMENT

- A. The Consultant shall not subcontract or assign any portion of any right or obligation under this Agreement without prior written consent from the City. Notwithstanding any consent by the City to any assignment, Consultant shall at all times remain bound to all warranties, certifications, indemnifications, promises and performances, however described, as are required of it under the Agreement unless specifically released from the requirement, in writing, by the City.

- B. The Consultant shall retain the right to pledge payment(s) due and payable under this Agreement to third parties.

XI. NOTICE

All notices and submissions required under this Agreement shall be delivered to the respective party in the manner described herein to the address stated in this Agreement or such other address as either party may designate by prior written notice to the other.

Notices given under this Agreement shall be in writing and shall be personally delivered, sent by next day express delivery service, certified mail, or first class U.S. mail postage prepaid, and addressed to the person listed below. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; (2) the next business day when notice is sent next day express delivery service or personal delivery; or (3) three days after mailing first class or certified U.S. mail.

If Notice is sent to the CONSULTANT, it shall be addressed and sent to:

Northwest Consultants, Inc.
3220 Central Park West
Toledo, Ohio 43617
Attn: Jonathan B. Drummond, P.E.

If Notice is sent to the CITY, it shall be addressed and sent to:

City of Ann Arbor
c/o Project Management Services Unit
301 E. Huron
Ann Arbor, Michigan 48104
Attn: Michael G. Nearing, P.E.

XII. CHOICE OF LAW

This Agreement will be governed and controlled in all respects by the laws of the State of Michigan, including interpretation, enforceability, validity and construction. The parties submit to the jurisdiction and venue of the Circuit Court for Washtenaw County, State of Michigan, or, if original jurisdiction can be established, the United States District Court for the Eastern District of Michigan, Southern Division, with respect to any action arising, directly or indirectly, out of this Agreement or the performance or breach of this Agreement. The parties stipulate that the venues referenced in this Agreement are convenient and waive any claim of non-convenience.

XIII. OWNERSHIP OF DOCUMENTS

Upon completion or termination of this Agreement, all documents (i.e., deliverables) prepared by or obtained by the Consultant as provided under the terms of this Agreement shall be delivered to and become the property of the City. Original basic survey notes, sketches, charts, drawings, partially completed drawings, computations, quantities and other data shall remain in the possession of the Consultant as instruments of service unless specifically incorporated in a deliverable, but shall be made available, upon request, to the City without restriction or limitation on their use. The City acknowledges that the documents are prepared only for the Project. Prior to completion of the contracted Services the City shall have a recognized proprietary interest in the work product of the Consultant.

Unless otherwise stated in this Agreement, any intellectual property owned by Consultant prior to the effective date of this Agreement (i.e., preexisting information) shall remain the exclusive property of Consultant even if such Preexisting Information is embedded or otherwise incorporated in materials or products first produced as a result of this Agreement or used to develop Deliverables. The City's right under this provision shall not apply to any Preexisting Information or any component thereof regardless of form or media.

XIV. CONFLICT OF INTEREST

Consultant certifies it has no financial interest in the Services to be provided under this Agreement other than the compensation specified herein. Consultant further certifies that it presently has no personal or financial interest, and shall not acquire any such interest, direct or indirect, which would conflict in any manner with its performance of the Services under this Agreement.

XV. SEVERABILITY OF PROVISIONS

Whenever possible, each provision of this Agreement will be interpreted in a manner as to be effective and valid under applicable law. However, if any provision of this Agreement or the application of any provision to any party or circumstance will be prohibited by or invalid under applicable law, that provision will be ineffective to the extent of the prohibition or invalidity without invalidating the remainder of the provisions of this Agreement or the application of the provision to other parties and circumstances.

XVI. EXTENT OF AGREEMENT

This Agreement, together with any affixed exhibits, schedules or other documentation, constitutes the entire understanding between the City and the Consultant with respect to the subject matter of the Agreement and it supersedes, unless otherwise incorporated by reference herein, all prior representations, negotiations, agreements or understandings whether written or oral. Neither party has relied on any prior representations, of any kind or nature, in entering into this Agreement. This Agreement may be altered, amended or modified only by written amendment signed by the Consultant and the City.

FOR CONSULTANT

FOR THE CITY OF ANN ARBOR

By _____
Ernest Er-Li Ch'ang, P.E.
Its President

By _____
John Hieftje, Mayor

By _____
Jacqueline Beaudry, City Clerk

Approved as to substance

Steven D. Powers, City Administrator

Craig A. Hupy, P.E., Public Services Administrator

Approved as to Form and Content

Stephen K. Postema, City Attorney

EXHIBIT "A"

STADIUM BOULEVARD RECONSTRUCTION PROJECT SCOPE OF SERVICES

GENERAL

Northwest Consultants, Inc., the CONSULTANT, shall manage all aspects of the project design up to the award of the construction contract(s) for the project. This includes, but is not limited to; managing all aspects of the project, including the work of all sub-consultants and project coordination with all affected agencies.

The CONSULTANT's Project Manager shall provide full oversight, review, and coordination of their project deliverables with that of their internal staff and sub-consultants such that a seamless product is provided, all deadlines are met, and that the plans and specifications are detailed, thorough, accurate, and meet all the requirements of the City of Ann Arbor (CITY), the Michigan Department of Transportation (MDOT), American Association of State Highway Transportation Officials (AASHTO), Americans with Disabilities Act (ADA), and any other relevant jurisdictional body.

All work shall be approved by the CITY.

The CONSULTANT'S Project Manager shall coordinate their efforts with the CITY to ensure the timely and cost effective submittal of the project deliverables.

The CONSULTANT shall coordinate all elements of the design with all affected parties, including, but not limited to; FHWA; MDOT; MDEQ; various City Departments; University of Michigan; private utility companies; other formal and informal committees; and, the public in general.

SCOPE OF WORK

All improvements shall be designed by the CONSULTANT in accordance with the applicable AASHTO, City of Ann Arbor, MDOT, MDEQ, ADA, and any other relevant standards.

The CONSULTANT shall perform all work in accordance with the project schedule contained within Exhibit "B" and MDOT's Published FY 2016 Local Agency Project Planning Guide such that the project will be contained within the February 2016 Bid Letting.

The CONSULTANT shall establish all needed pay items and specifications for the proposed work. This will include unique pay items that properly detail all required work to be performed by the Contractor so that best management practices are followed in all areas of the proposed work. The CITY reserves the right of final determination regarding specific Items of Work and if Special Provisions will be required to the satisfactorily detail and describe the work.

The CONSULTANT shall also prepare all necessary permit applications (including all required supporting materials) from all approving agencies including, but not limited to; the MDEQ, MDNRE, and the Washtenaw County Water Resources Commission (WCWRC).

The CONSULTANT shall prepare complete, detailed, and accurate traffic control plans meeting the requirements of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), MDOT, and the CITY to complete the project.

Continuous pedestrian and bicycle traffic shall be maintained throughout the project limits on at least one side of the roadway at all times. It is desired that two lanes of traffic (one lane in each direction along Stadium Boulevard) be maintained throughout the project limits at all times. It is anticipated that due to needed utility construction, construction staging, and other concerns, that it will not be possible to effectively maintain two lanes of traffic either along Stadium Boulevard or S. Main Street at all times throughout the project. Consequently, the CONSULTANT shall review and consider this possibility during the preparation of the plans and specifications for the project. Should it be determined that it is not possible to maintain traffic as desired by the CITY, it will then be necessary for the CONSULTANT to analyze and evaluate up to three (3) potential detour routes for each of the directions (north, south, east, west) entering the project. The CONSULTANT shall create an existing operational analysis model of the affected project area using Highway Capacity Manual methods and *Synchro* and *SimTraffic* software. Traffic models for each detour route in up to two (2) varying construction scenarios will be analyzed to depict the various impacts of closures required during the reconstruction. The CONSULTANT shall include a list of mitigation measures suggested for improving operations along each detour option. The final detour route, if its use is required, shall be optimized in order to provide the optimum traffic flow while maintaining pedestrian accessibility during construction. The CITY shall be responsible for implementing changes to the traffic signals during construction. The CONSULTANT shall include all other mitigation measures in the final construction plans and specifications.

The CONSULTANT shall provide sufficient information to the CITY such that the CITY can prepare temporary and permanent traffic signal designs for the project.

The proposed closure of any streets must be approved by the CITY prior to traffic maintenance plans being prepared and developed.

The CONSULTANT shall prepare complete, detailed, and accurate traffic control plans to construct the project based on the optimized detour route(s).

The CONSULTANT shall prepare pavement marking and permanent signing plans to ensure safety of motorists and pedestrians. This shall include the re-striping of any streets affected by project detour routes.

The CONSULTANT shall propose and devise public awareness and involvement strategies throughout the course of the design of the project, including up to three (3) public meetings; fifteen (15) stakeholder meetings; and seven (7) meetings with City Council or other public committees and commissions. The CONSULTANT shall also develop and distribute project content and materials via informational flyers; e-mails; mass mailings; press releases; web and

social media (for deployment by CITY); and other information sharing techniques. The CONSULTANT must effectively communicate the purpose and the benefits of the project with the public and the stakeholders and assist with all necessary negotiations with the affected property owners and public and private agencies.

The CONSULTANT shall prepare a complete, detailed, ground survey of the entire construction influence area. This may be augmented by aerial photography, however, aerial photography will not be the primary tool in developing the topographic survey for the project. The CONSULTANT shall, at a minimum, provide the following items in their proposed scope of work; locate all trees 6" in diameter or greater and provide the genus, cultivar (if applicable), and health breakdown; locate all cultural features within the requested survey boundaries; provide an accurate survey with 1' contour intervals; locate all "breaklines" and other features as necessary to develop accurate contours; provide detailed spot elevations at all existing sidewalk and sidewalk ramp areas within the limits of construction; provide all survey work to national map accuracy standards; **establish and define** the existing Right-of-Way of Stadium Boulevard and S. Main Street, as well as all intersecting cross-streets that are affected by the project; coordinate with the CITY personnel such that the appropriate title work and appraisals can be obtained for the purposes of right-of-way and grading permit acquisition (the CITY will obtain the needed title work and appraisals required for the project); locate all existing property irons and monuments within the survey limits; and, locate existing public and private utilities. All survey work shall be performed in accordance with the City of Ann Arbor Public Services Area's Standards and its Geodetic Control Manual. The CONSULTANT shall complete and submit the CITY'S Survey Package Submittal Checklist upon completion of all survey work for the CITY'S review and approval.

The CONSULTANT shall perform a life-cycle cost analysis for the purposes of determining if a Portland Cement or a Hot-mix Asphalt pavement cross-section is the most cost-effective within the project limits from the S. Main Street/Stadium Boulevard intersection (and all turning lanes) easterly to the concrete pavement terminus at the westerly end of the E. Stadium Boulevard Bridges Replacement Project.

The CONSULTANT shall provide the design of retaining walls, railings, barriers, and guardrails, as necessary, to construct the planned roadway and path alignments. Retaining walls will be required along the Ann Arbor Golf and Outing property located at the southeast corner of the Stadium Boulevard/S. Main Street intersection in order to construct the planned 8' wide path along the southerly side of roadway. In order to minimize the taking of land in this area, the CITY desires to construct retaining walls that are capable of supporting the retained soil without the use of soil anchors, geogrid, or other elements that would require obtaining additional right-of-way. The CONSULTANT shall design such a wall system to be used on this project. The CONSULTANT shall provide up to three different colors, textures, geometric patterns, etc. shall be sketched and illustrated for comparison purposes in order to assist in making the final choice of a retaining wall system for a given location.

The CONSULTANT shall identify and define limits within the contract documents with regard to construction methods and practices. These include identifying potential staging areas, limits of where construction activity can, or cannot, occur within the construction influence area, University of Michigan property that is "off-limits" to the Contractor, roads/bridges that are not

to be used by the contractor, etc..

The CONSULTANT shall review and evaluate existing storm water drainage systems and options for on-site storm water detention and/or water quality improvement. The CONSULTANT shall design the storm water facilities to accommodate first-flush and bank-full rain events in accordance with the CITY'S accepted Storm Water Revolving Fund Plan. Excerpts of this plan and preliminary storm water management concepts are found in RFP No. 903 that was prepared for this project and are contained in Attachment "G".

The CONSULTANT shall perform a complete, detailed, geotechnical evaluation and analysis to determine the properties of the existing soils throughout the construction influence area for the purposes of evaluating all sub-surface soil conditions for designing either HMA or concrete pavements, retaining walls, underground storm water detention or infiltration facilities, and all other project elements.

The CONSULTANT shall perform the following soil borings:

- Roadway/Water Main Borings – 45 borings to 5 feet each
- Roadway/First-Flush Storm Sewer Borings – 12 borings to 15 feet each
- Retaining Wall Borings – 3 borings to 20 feet each
- Traffic Signal Mast Arm Borings – 4 borings to 30 feet each

The geotechnical evaluation shall provide, at a minimum; estimates of the soil's resilient modulus of subgrade reaction (M_r) throughout the project limits and on the affected side streets; estimates of the soil's permeability and infiltration capacity to be used in the design of storm water systems; determination of existing ground water elevations; investigation of the location and amount of hydrocarbon contaminated soils; all necessary remediation techniques for the treatment of contaminated soils(s); suitability of the existing soils for grading and earth-balancing purposes; and any other information that is necessary to effectively design and detail the project.

The CONSULTANT shall gather and review information pertaining to existing public and private utilities and determine the precise location, both horizontally and vertically, of all existing utilities. This includes the evaluation and recommendation as to the adequacy of existing public utilities including sanitary and storm sewers, water mains, and the possible need for utility expansion and/or renovation. The CONSULTANT shall obtain record drawings from the private utility companies and coordinate all aspects of the proposed work with the private utility companies. Where critical crossings of utilities are believed to exist, or the elevation(s) of existing utilities may significantly affect the design, or relocation, of utilities, roadways, retaining walls, and the like, test holes shall be dug to determine the precise location, both horizontally and vertically, of these points. The CONSULTANT shall arrange for these test holes to be dug and shall make arrangements to have the necessary inspection and survey personnel on hand to observe, locate, and verify the results of each excavation.

The CONSULTANT shall obtain two-way traffic counts and breakdown of traffic type throughout the project corridor in order to properly design the roadway structure. Also, obtain manual turning movement counts at each intersection in the AM and PM peak periods for the purposes of evaluating traffic queuing lengths in each travel lane, re-distribution of traffic on

potential detour routes, and other related work. Specifically, the CONSULTANT shall conduct 24-hour machine counts, turning movement counts, and vehicle operations observations at the intersection of Stadium Boulevard and Main Street. The CONSULTANTS shall also collect manual turning movement counts and roadway inventory data at up to twenty (20) locations throughout the study area.

The CONSULTANT shall provide geometric designs for the main line roadways and the intersecting streets in accordance with all AASHTO, City of Ann Arbor, and MDOT Standards. The current proposed alignment and typical cross-sections as shown in RFP No. 903, Attachment "I", that was created for this project will be reviewed, evaluated, and adjusted, as needed, in order to obtain the optimal final design.

All plan sheets shall be drawn and prepared by the CONSULTANT in accordance with the City of Ann Arbor Public Services Area Drafting Standards. All scales shall be approved by the CITY. The format of the drawings shall be completely compatible with the CITY'S drawing preparation standards and layout(s). All drawings shall be provided in an AutoCAD 2013 Civil 3D compatible format without the need to reconfigure drawings for plotting or other purposes. The CITY shall be provided with one portable flash drive containing all drawings, specifications, and cost estimates upon completion of the project's design.

The CONSULTANT shall prepare and analyze the needed construction critical path schedule for the proposed work of the project. Based upon the critical path of the project and how the proposed construction could impact University of Michigan home football game and special event traffic within the corridor, it may be necessary to construct the project over multiple construction seasons, specify intermediate completion dates, specify special construction phasing/staging requirements, or implement other strategies such that travel along the corridor is not unnecessarily impacted. The CONSULTANT shall propose for the review and approval of the CITY, and relevant project stakeholders, a construction strategy(ies) that best serves the needs of all users of the corridor.

The CONSULTANT shall prepare visual aids and attend meetings described elsewhere in this scope of services to coordinate the design of the project with other City Departments, City Council, stakeholders, the public at-large, and other formal and informal committees.

The CONSULTANT shall prepare all plans necessary to meet pertinent City of Ann Arbor requirements including Natural Features Protection Plans; Soil Erosion and Sediment Control Plans; Grading; Landscaping and Planting plans; and, all other plans needed to satisfy city ordinances, codes, best management practices, and the like. These requirements can be found in Chapters 57 and 60 of the City of Ann Arbor Code of Ordinances. The requirements of the City of Ann Arbor Code of Ordinances shall take precedence over all other MDOT standard practices.

The CONSULTANT shall prepare rendered drawings in order to illustrate the chosen design concept and overall depiction of the project in its finished state. This shall include, at a minimum, a 24" x 36" overall site plan; elevation and section views of the proposed sidewalks and retaining walls at key locations along the Ann Arbor Golf and Outing property, the Blue Course, Michigan Stadium, the Crisler Center, and Ann Arbor Pioneer High School.

The CONSULTANT shall identify, define, and prepare all legal descriptions and exhibit drawings for all easements and grading permits that will be required to construct the proposed improvements. This is to include technical assistance, surveying, metes and bounds legal descriptions, and the preparation of the corresponding recordable, exhibit drawings in an 8½" x 11" format, as required and directed by the CITY. The areas where the expected grading permits and easements are necessary will be determined as the design of the project progresses.

The CONSULTANT shall schedule and chair up to thirty (30) design progress meetings to be held on a bi-monthly basis. This is to include a design kick-off meeting in which all affected parties to the design will be contacted and invited to attend. The CONSULTANT shall prepare and distribute written meeting minutes for all progress and coordination meetings.

Design Details

In general, the CONSULTANT shall prepare to CITY Standards plan and profile sheets at a horizontal scale of 1"=20' and a vertical scale of 1"=2' for all work. This shall include, but not be limited to, water main, sewer, and roadway plans. Other plans, such as retaining wall plans, sections, and elevations; traffic control drawings; intersection enlargement plans; typical cross-sections, cross-sections, details, etc. shall be drawn at scales as approved by the CITY in order to properly complete the work of the project.

The following is a brief overview of the major or critical elements of the work:

1. Design Speed: It is expected that the currently proposed roadway alignment between S. Main Street and Kipke Drive will be reviewed, evaluated, and adjusted, if needed, in order to obtain the optimal final design.

E. Stadium Boulevard: 40 mph.
2. Design Vehicle: WB-40 (unless otherwise directed)
3. Horizontal Alignment: The proposed horizontal alignment(s) shall follow those as shown in Attachment "H" of RFP No. 903 for this project. It is expected that the currently proposed alignment will be reviewed, evaluated, and adjusted, if needed, in order to obtain the optimal final design.
4. Vertical Alignment: Minimum longitudinal grade shall be 1.0%, unless otherwise approved by the CITY. Maximum longitudinal grade shall be 5%. The proposed vertical alignment(s) shall follow those as shown in the above-referenced Attachment "H". It is expected that the currently proposed alignments will be reviewed, evaluated, and adjusted, if needed, in order to obtain the optimal final design.
5. Typical Cross-Sections: The typical cross-section(s) shall follow those as shown in Exhibit "I" of RFP No. 903 for this project. It is expected that the currently proposed cross-sections will be reviewed,

evaluated, and adjusted, if needed, in order to obtain the optimal final design.

6. Drainage: Provide enclosed conduit drainage systems and other elements in keeping with the City's approved Storm Water Revolving Fund Plan. All drainage systems shall be designed and/or evaluated to contain and process first-flush and bank-full rain events or as otherwise required by the CITY of Ann Arbor.
7. General Design Standards: Incorporate the AASHTO Policy on Geometric Design of Highways and Streets (2011); the MDOT Design Guide; 2012 MDOT Standard Specifications for Construction; MDEQ Permitting regulations; ADA accessibility standards; the City of Ann Arbor Code of Ordinances; and the City of Ann Arbor Public Services Department Standard Specifications (current edition).
8. Roadway Width(s): The number of lanes, intersection configurations, and width of lanes shall follow those as shown in the above-referenced Attachment "T". However, it is expected that these proposed sections may be revised multiple times based on comments received from the University of Michigan, citizen input, or Right-of-Way considerations. The CONSULTANT shall provide the necessary resources to accommodate the required revisions.
9. Water Main(s), Sanitary Sewer(s), and Storm Sewer(s):

The design of any proposed or relocated facility shall be designed in accordance with the City of Ann Arbor, Public Services Area, Standard Specifications and as directed by the CITY.

A proposed 30", ductile iron, raw water main shall be designed which runs from the recently constructed 30" raw water main just west of the entrance of the Blue Course to the existing 20" raw water main located at the intersection of S. Seventh Street and Potter Avenue. Attachment "J" of RFP No. 903 for this project contains the proposed routing and routing options associated with this water main. The design of this main must be sensitive to its location and will require off-hours tie-in periods and have seasonal restrictions regarding its shutdown.
10. Intersection Enlargement Plans: All roadway intersections shall be detailed to include roadway centerline elevations, curb elevations as measured at the edge of metal, roadway longitudinal and transverse grades, sidewalk and sidewalk ramp spot elevations, and longitudinal and transverse grades, any other large miscellaneous paved areas, and other areas as directed by the CITY. These drawings shall be drawn at scales as approved by the CITY, but in no case

shall they be smaller than 1" = 10'.

These drawings shall take into consideration the effects of "part-width" construction and shall be adequately dimensioned to allow key elevations, or dimensions, to be obtained without calculation.

Please see Attachment "K" of RFP No. 903 for this project for a sample of an acceptable Intersection Enlargement Plan for use in developing the plans of this project.

11. Soil Erosion, Grading, Tree Planting, Natural Features Protection Plans, and other miscellaneous Plans:

These plans shall be prepared in accordance with the appropriate Chapters of the City of Ann Arbor Code of Ordinances, and as approved by the Project Manager and/or the appropriate City Departments.

12. Soil Investigation:

The CONSULTANT shall employ a qualified geotechnical engineer to perform a detailed, comprehensive, soil investigation, the cost of which shall be detailed separately in the proposal. Soil borings shall be taken at frequencies as determined by the CONSULTANT, and as agreed to by the CITY, all as necessary to ensure an adequate representation of site soil conditions.

The CONSULTANT shall prepare a soil boring plan which details the location and depth of each soil boring planned to be taken. In general, it is expected that one boring will be taken in future and existing lanes of roadway, at 200 foot intervals. The depth of all soil borings shall be approved by the CITY. Where retaining walls are to be installed, the CONSULTANT shall propose, for CITY approval, soil boring locations and depths sufficient to properly design these structures. All soil borings shall be performed to a depth of at least 5' below any proposed structure or utility.

Based on the soil investigation, the CONSULTANT shall provide the CITY with recommendations as to the proper remediation of deleterious soils if encountered, by specifying suggested corrective measures which are then to be incorporated into the Contract Documents as work items. In addition, the CONSULTANT shall perform site earth work calculations and investigations to determine whether the site

earth work "balances". This includes analysis of any portion, or phase, of the construction when multiple phases are proposed.

All traffic control required to perform the soil borings and all related work shall be in accordance with the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) and the City of Ann Arbor Design Standards. The CONSULTANT shall also be responsible for coordinating this work with the Miss-Dig network a minimum of 3 working days in advance of any underground activities. **The costs associated with providing traffic control plans and obtaining the necessary permits, are included in this agreement and will not be paid for separately.** The City of Ann Arbor will waive the City of Ann Arbor permit fees associated with this work.

All findings as produced as part of the soil investigation shall be provided in a bound report and made available for review and comment by the CITY. The geotechnical sub-consultant shall be available to discuss in detail the report and its findings and respond to written comments regarding the report.

14. Pavement
Structural Design:

The pavements shall be designed in accordance with the "Guide for Design of Pavement Structures" as published by AASHTO and the City of Ann Arbor Design Standards. The pavements shall be designed for a service life of 20 years. Concrete and asphalt pavements shall be analyzed. A life-cycle cost analysis shall be prepared that determines the overall lowest life-cycle cost pavement.

15. Contract
Specifications:

The CONSULTANT shall be responsible for the preparation of a complete set of Contract Documents and all required Specifications meeting the complete satisfaction of the CITY and MDOT.

This will include unique pay items that properly detail all required work to be performed by the Contractor so that City of Ann Arbor Standards and/or best management practices are followed in all areas of the proposed work. The CITY reserves the right of final determination regarding specific Items of Work and if Special Provisions will be required to satisfactorily detail and describe the work. The CITY currently has a library of Special Provisions that can be used and will form the nucleus of the specifications to be utilized as part of this project. The CONSULTANT will be responsible for reviewing and updating these special provisions, if necessary to ensure that they are relevant and accurately reflect all proposed work of this contract.

16. Maintenance of Traffic:

The construction of the roadways and utilities associated with this project will be performed under traffic. Provide construction signing plans and detour plans that meet all requirements of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) and the City of Ann Arbor. The traffic control plans shall ensure the efficient, safe, and orderly maintenance of vehicular and pedestrian traffic throughout the project and around the construction staging areas.

A minimum of one lane of vehicular traffic in each direction shall be maintained along Stadium Boulevard within the limits of construction at all times, unless otherwise approved by the CITY. Pedestrian traffic along one side of the roadway and access to all properties shall be maintained at all times. Work restrictions will be required for the Ann Arbor Street Art Fairs, University of Michigan events such as home football and basketball games, commencement exercises, and other events. The construction operations must be carefully considered during the preparation of these plans.

The CONSULTANT shall be aware that traffic counts exist within the project vicinity, but are dated. As a result, the CONSULTANT shall provide the necessary resources to obtain all needed vehicular and pedestrian traffic counts along Stadium Boulevard, Main Street, and all other streets that will be used as part of the project detour route such that accurate models and simulations can be created and studied. This shall include manual turning movement counts and pedestrian counts along Stadium Boulevard.

17. Right-of-Way Requirements:

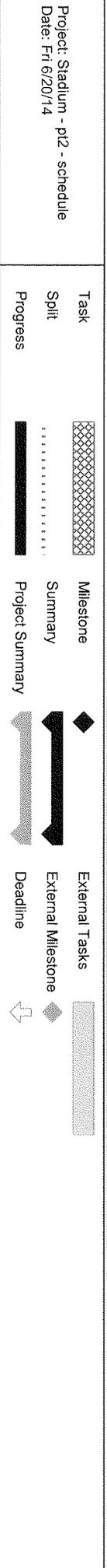
Identify, define, and prepare all legal descriptions and exhibit drawings for all easements and grading permits that will be required to construct the proposed improvements. This is to include technical assistance, surveying, metes and bounds legal descriptions, and the preparation of the corresponding exhibit drawings in recordable, 8½" x 11" format, as required and directed by the CITY. It is expected that permanent right-of-way and temporary grading permits will be required on the Ann Arbor Golf and Outing Property. Other permanent right-of-way or temporary grading permits may be required at other properties adjacent to the project and will be determined as the project's design progresses.

C. PROPOSED WORK PLAN

C-3. TIMELINE SCHEDULE

**Stadium Boulevard Reconstruction Project
Detailed Progress Schedule**

ID	Task Name	Duration	Start	Finish	Predecessors
1	Notice to Proceed	0 days	Mon 9/8/14	Mon 9/8/14	
2	Task 1. Field Work and Base Design	123 days	Mon 9/8/14	Wed 2/25/15	
3	Kickoff Meeting	0 days	Mon 9/8/14	Mon 9/8/14	
4	Bi-Monthly Meetings	95 days	Mon 9/22/14	Mon 2/2/15	
15	Topographic Survey & ROW Establishment	90 days	Mon 9/8/14	Fri 1/9/15	1SS
16	Geotechnical Investigation	60 days	Mon 9/8/14	Fri 11/28/14	1SS
17	Traffic Counts	30 days	Mon 10/6/14	Fri 11/14/14	1SS+20 days
18	Utility Investigation	90 days	Mon 9/8/14	Fri 1/9/15	1SS
19	Prepare Base Plans	92 days	Mon 9/22/14	Tue 1/27/15	1SSS+10 days
20	QA/QC Review & Revisions	10 days	Wed 1/28/15	Tue 2/10/15	19
21	Submit Base Design	1 day	Wed 2/11/15	Wed 2/11/15	20
22	City of Ann Arbor Review	10 days	Thu 2/12/15	Wed 2/25/15	21
23	Task 2. Preliminary Design	105 days	Thu 2/26/15	Wed 7/22/15	
24	Bi-Monthly Meetings	70 days	Mon 3/9/15	Mon 6/15/15	
33	ROW Documents & Plans	72 days	Thu 2/26/15	Fri 6/5/15	22
34	Prepare Preliminary Plans	72 days	Thu 2/26/15	Fri 6/5/15	22
35	QA/QC Review & Revisions	12 days	Mon 6/8/15	Tue 6/23/15	34
36	Submit Preliminary Design	1 day	Wed 6/24/15	Wed 6/24/15	35
37	City of Ann Arbor Review	20 days	Thu 6/25/15	Wed 7/22/15	36
38	Task 3. Final Design	100 days	Mon 7/6/15	Fri 11/20/15	
39	Bi-Monthly Meetings	90 days	Mon 7/6/15	Mon 11/9/15	
50	Prepare Final Plans (prior to GI)	32 days	Thu 7/23/15	Fri 9/4/15	37
51	QA/QC Review & Revisions	9 days	Mon 9/7/15	Thu 9/17/15	50
52	Submit Plans, Specs, and Est. to MDOT GI (approx.)	1 day	Fri 9/18/15	Fri 9/18/15	51
53	MDOT & City of Ann Arbor Review (approx.)	0 days	Fri 10/16/15	Fri 10/16/15	
54	Prepare Final Plans (after GI)	36 days	Fri 9/18/15	Fri 11/6/15	51
55	QA/QC Review & Revisions	9 days	Mon 11/9/15	Thu 11/19/15	54
56	Submit Plans, Specs, and Est. to MDOT (approx.)	1 day	Fri 11/20/15	Fri 11/20/15	55
57	MDOT Letting Date (approx.)	1 day	Fri 2/5/16	Fri 2/5/16	



Project: Stadium - p12 - schedule
Date: Fri 6/20/14

Task Split Progress

Milestone Summary Project Summary

External Tasks External Milestone Deadline

EXHIBIT "B"

FEE PROPOSAL STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE CITY OF ANN ARBOR June 20, 2014

Northwest Consultants, Inc.
3220 Central Park West
Toledo, OH 43617
(419) 841-4704
(419) 841-2979 - Fax

Personnel Category	Hourly Rate
Project Manager, PE	\$157.88
Deputy Project Manager, PE	\$125.21
QA/QC Engineer, PE	\$157.88
Sr. Project Engineer, PE	\$114.33
Project Engineer, PE	\$95.27
Design Engineer, EI	\$76.22
Project Surveyor, PS	\$103.44
Field Surveyor	\$68.05

DERIVATION OF HOURLY RATES

Overhead Rate: 143.04%
Profit: 12%

NAME	TITLE	CODE	SALARY RATE	HOURLY RATE *
Jonathan Drummond, PE	Project Manager, PE	PM	\$58.00	\$157.88
A. Kilpatrick, PE	Deputy Project Manager, PE	DPM	\$46.00	\$125.21
Tong Luo, PE	QA/QC Engineer, PE	QA	\$58.00	\$157.88
G. Schmitt, PE, P. Kammer, PE	Sr. Project Engineer, PE	SPE	\$42.00	\$114.33
A. Moncznik, PE, Eric Hansen, PE	Project Engineer, PE	PE	\$35.00	\$95.27
Various	Design Engineer, EI	DE	\$28.00	\$76.22
I. Scrott, PS	Project Surveyor, PS	PS	\$38.00	\$103.44
Various	Field Surveyor	FS	\$25.00	\$68.05

* Hourly Rate = Salary Rate x (1+Overhead Rate) x (1+Profit)

TASK 1 - FIELD WORK AND BASE DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY								Total Hours	DIRECT COSTS	TOTAL COST	
		PM	DPM	QA	SPE	PE	DE	PS	FS				
Kickoff Meeting	25	8	8							8			
Topographic Survey & ROW Establishment													
Record Research (incl. avail. survey)	3,23						16			24	40	\$0	\$3,702
Fieldwork	3,10,11		4							210	256	\$1,404	\$41,048
Establish alignments and ROW	3,23		2					40		50	102	\$25	\$9,177
Data processing, Preparing topo drawing & 1	3,10,11,23		2	8	32		120			40	202	\$0	\$18,455
Survey Package	3	2					32			24	58	\$0	\$5,237
Geotechnical Investigation													
Record Research (incl. avail. info)	10		2								2	\$391	\$641
Fieldwork	10		4								4	\$32,324	\$32,825
Report and Recommendations	10	4									4	\$9,154	\$9,786
Traffic Counts	13	8									8	\$20,667	\$21,930
Utility Coordination													
Record Research (incl. avail. info)	11		2	16		40					58	\$0	\$5,128
Fieldwork coordination	11		2	16				8	32		58	\$754	\$5,839
Conflict identification and resolution	11		4	16		40					60	\$0	\$5,379
Utility Meetings (Assume 1)	11		6	6							12	\$854	\$2,291
Base Plan Preparation													
Sheet Plan Preparation	8,12,14,19		8	16	24	80					128	\$0	\$11,215
Reference File Preparation	8,12,14,19		8	40	40	120					208	\$0	\$18,532
Conceptual Plan Preparation	8,12,14,19	8	40	16	64	40	120				288	\$11,563	\$40,634
Project Management	1		40								40	\$1,076	\$7,391
Progress Meetings (Assume 10)	25		40	40	40						120	\$4,620	\$20,517
Subtotal - Task 1		110	132	24	246	104	608	364	298	1886	\$86,652	\$266,639	

FEE PROPOSAL
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<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager, PE	\$157.88
Deputy Project Manager, PE	\$125.21
QA/QC Engineer, PE	\$157.88
Sr. Project Engineer, PE	\$114.33
Project Engineer, PE	\$95.27
Design Engineer, EI	\$76.22
Project Surveyor, PS	\$103.44
Field Surveyor	\$68.05

TASK 2 - PRELIMINARY DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY								Total Hours	DIRECT COSTS	TOTAL COST	
		PM	DPM	QA	SPE	PE	DE	PS	FS				
Preliminary Roadway/Utility Design & Plans													
	Sheet Plan Preparation	8,12,14,19		8		16			80		104	\$0	\$8,928
	Reference File Preparation	8,12,14,19				8			120		152	\$0	\$12,892
	Life-Cycle Cost Analysis	6	24					16			40	\$0	\$5,313
	Utility Design (WM & San)	11	4	40					80		164	\$0	\$16,311
	Pavement Markings	17		4					16		28	\$0	\$2,635
Preliminary Retaining Wall Design & Plans													
	Retaining Wall Type Study	7,20	16					40	40		96	\$1,861	\$11,247
	Prelim. Retaining Wall Design & Plans	7,20	12					32	64		108	\$0	\$9,821
Right-of-Way and Real Estate Impacts													
	Review impacts and limits of work	8,23		24		24					48	\$0	\$5,749
	Prepare exhibits and descriptions	3,23		24		32			40	16	112	\$0	\$11,367
Maintaining Traffic Design & Plans													
	Conceptual Alternatives	8,15	4	40		40	40	40			164	\$0	\$17,073
	Traffic Operations and Modeling	15	2	8							10	\$31,080	\$32,397
	Critical Path Analysis and Coordination	16	4	8		32	64				108	\$0	\$11,389
	Conceptual Approval Meeting (Assume 1)	15,16	8	8		8					24	\$1,276	\$4,455
	MOT Preliminary Plan Preparation	12,16	2	16		24	40	40			122	\$0	\$11,923
	Detour route improvements plan prep.	12,17	2	16		32	24	40			114	\$0	\$11,313
Landscape Plans and Street Lighting													
	Landscape Plans and Street Lighting	7,19,21,22	16								16	\$12,673	\$15,199
Stormwater Drainage Systems													
	Review existing system	9		24		40		24			88	\$0	\$9,407
	Prepare conceptual facilities design	9		32		40		40			112	\$0	\$11,629
	Prepare preliminary facilities design/plans	9		24		40		64			128	\$3,217	\$15,673
Public Awareness and Involvement													
	Scoping and Design	2,18,24	8								8	\$11,000	\$12,263
	Content and Materials	2,18,24	8								8	\$14,800	\$16,063
	Stakeholder Meetings (15)	24	30	30							60	\$15,179	\$23,672
	Public Meetings (Assume 3)	2,18	30	30							60	\$11,079	\$19,572
	Project Communications	2,18,24	8								8	\$12,400	\$13,663
	City Council Engagement	24	4								4	\$2,250	\$2,882
Utility Coordination													
	Conflict identification and resolution	11		16			16	16			48	\$0	\$4,747
	Fieldwork coordination	11		8				4	4	16	32	\$1,459	\$4,268
	Utility Meetings (Assume 1)	11		6			6				12	\$829	\$2,152
	Permit Preparation (City, County, State)	5		8		16	24				48	\$0	\$5,117
	Preliminary Environmental Protection Plan	21	2	8			24	32			66	\$0	\$6,043
	Preliminary Quantities/Cost Estimate	4		16		24	16				56	\$1,861	\$8,133
	Preliminary Special Provisions	4	12	16		32	16				76	\$2,113	\$11,194
	QA/QC	1	8	16	40						64	\$2,313	\$11,895
	Project Management	1	40	24							64	\$1,076	\$10,396
	Preliminary Plan Review Meeting	19	8	8		16					32	\$0	\$4,094
	Progress Meetings (Assume 8)	25	32	32		32					96	\$13,020	\$25,737
Subtotal - Task 2			284	502	40	520	358	740	20	16	2480	\$139,486	\$406,611

FEE PROPOSAL
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

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 Toledo, OH 43617
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<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager, PE	\$157.88
Deputy Project Manager, PE	\$125.21
QA/QC Engineer, PE	\$157.88
Sr. Project Engineer, PE	\$114.33
Project Engineer, PE	\$95.27
Design Engineer, EI	\$76.22
Project Surveyor, PS	\$103.44
Field Surveyor	\$68.05

TASK 3 - FINAL DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY								Total Hours	DIRECT COSTS	TOTAL COST	
		PM	DPM	QA	SPE	PE	DE	PS	FS				
Final Roadway/Utility Design & Plans													
	Sheet Plan Preparation	8,12,14,19		16		32		64			112	\$0	\$10,540
	Reference File Preparation	8,12,14,19		16		24		40			80	\$0	\$7,796
	Utility Design (WM & San)	11		32		40		64			136	\$0	\$13,458
	Pavement Markings	17		2		4		16			22	\$0	\$1,927
Final Retaining Wall Design & Plans													
	Final Retaining Wall Design & Plans	7,20	8					32		40	80	\$4,426	\$11,786
Right-of-Way and Real Estate Impacts													
	Review impacts and limits of work	8,23		24		24					48	\$0	\$5,749
	Prepare exhibits and descriptions	3,23		16		24		32	16		88	\$0	\$8,841
Maintaining Traffic Design & Plans													
	Traffic Operations and Modeling	15		8							8	\$11,840	\$12,842
	Critical Path Analysis and Coordination	16	4	16		24		40			84	\$0	\$9,190
	MOT Final Plan Preparation	12,16	2	16		24		40		32	114	\$0	\$11,313
	Detour route improvements plan prep.	12,17	2	16		24		24		32	98	\$0	\$9,788
Landscape Plans and Street Lighting													
	Landscape Plans and Street Lighting	7,19,21,22	16								16	\$29,671	\$32,197
Stormwater Drainage Systems													
	Prepare Final Drainage Report	9		40		40					120	\$0	\$12,630
	Prepare final facilities design/plans	9		24		40		64			128	\$0	\$12,456
Utility Coordination													
	Conflict identification and resolution	11		16				24			40	\$0	\$3,833
	Fieldwork coordination	11		8				4	4	16	32	\$50	\$2,859
	Utility Meetings (Assume 1)	11		12							12	\$25	\$1,528
	Permit Preparation (City, County, State)	5		16		16		8			40	\$0	\$4,442
	Final Environmental Protection Plan	21	2	8		16		32			58	\$0	\$5,586
	Final Quantities/Cost Estimate	4		16		16		16			48	\$5,758	\$10,810
	Final Special Provisions	4	24	24		32		16			96	\$4,402	\$16,379
	QA/QC	1	8	24	40						72	\$3,821	\$14,404
	Project Management	1	40	24							64	\$1,076	\$10,396
	MDOT GI Meeting	19	8	8		16					32	\$2,210	\$6,304
	Progress Meetings (Assume 10)	25	40	40		40					120	\$4,620	\$20,517
Subtotal - Task 3			154	422	40	436	152	508	20	16	1748	\$67,899	\$257,571
PROJECT TOTALS			548	1056	104	1202	614	1856	404	330	6114	\$294,037	\$930,822

FEE PROPOSAL - DIRECT COSTS
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

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TASK 1 - FIELD WORK AND BASE DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN					DIRECT COSTS	
		Mileage	Plots/ Handouts	SUB URS ¹	SUB CTI ²	SUB Bridgeport ³		
Kickoff Meeting	25	\$100		\$3,720			\$3,820	
Topographic Survey & ROW Establishment								
Record Research (incl. avail. survey)	3,23						\$0	
Fieldwork	3,10,11	\$600		\$804			\$1,404	
Establish alignments and ROW	3,23	\$25					\$25	
Data processing, Preparing topo drawing & I	3,10,11,23						\$0	
Survey Package	3						\$0	
Geotechnical Investigation								
Record Research (incl. avail. info)	10				\$391		\$391	
Fieldwork	10				\$32,324		\$32,324	
Report and Recommendations	10				\$9,154		\$9,154	
Traffic Counts	13			\$20,667			\$20,667	
Utility Coordination								
Record Research (incl. avail. info)	11						\$0	
Fieldwork coordination	11	\$50		\$704			\$754	
Conflict identification and resolution	11						\$0	
Utility Meetings (Assume 1)	11	\$50		\$804			\$854	
Base Plan Preparation								
Sheet Plan Preparation	8,12,14,19						\$0	
Reference File Preparation	8,12,14,19						\$0	
Conceptual Plan Preparation	8,12,14,19			\$11,563			\$11,563	
Project Management	1			\$1,076			\$1,076	
Progress Meetings (Assume 10)	25	\$900		\$3,720			\$4,620	
Subtotal - Task 1		\$1,725	\$0	\$43,058	\$41,869	\$0	\$0	\$86,652

FEE PROPOSAL - DIRECT COSTS
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 June 20, 2014

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TASK 2 - PRELIMINARY DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN					DIRECT COSTS	
		Mileage	Plots/ Handouts	SUB URS ¹	SUB CTI ²	SUB Bridgeport ³		
Preliminary Roadway/Utility Design & Plans								
Sheet Plan Preparation	8,12,14,19						\$0	
Reference File Preparation	8,12,14,19						\$0	
Life-Cycle Cost Analysis	6						\$0	
Utility Design (WM & San)	11						\$0	
Pavement Markings	17						\$0	
Preliminary Retaining Wall Design & Plans								
Retaining Wall Type Study	7,20			\$1,861			\$1,861	
Prelim. Retaining Wall Design & Plans	7,20						\$0	
Right-of-Way and Real Estate Impacts								
Review impacts and limits of work	8,23						\$0	
Prepare exhibits and descriptions	3,23						\$0	
Maintaining Traffic Design & Plans								
Conceptual Alternatives	8,15						\$0	
Traffic Operations and Modeling	15			\$31,080			\$31,080	
Critical Path Analysis and Coordination	16						\$0	
Conceptual Approval Meeting (Assume 1)	15,16	\$100		\$1,176			\$1,276	
MOT Preliminary Plan Preparation	12,16						\$0	
Detour route improvements plan prep.	12,17						\$0	
Landscape Plans and Street Lighting								
Landscape Plans and Street Lighting	7,19,21,22			\$12,673			\$12,673	
Stormwater Drainage Systems								
Review existing system	9						\$0	
Prepare conceptual facilities design	9						\$0	
Prepare preliminary facilities design/plans	9			\$3,217			\$3,217	
Public Awareness and Involvement								
Scoping and Design	2,18,24					\$11,000	\$11,000	
Content and Materials	2,18,24					\$14,800	\$14,800	
Stakeholder Meetings (15)	24	\$600		\$5,979		\$8,600	\$15,179	
Public Meetings (Assume 3)	2,18	\$300	\$1,000	\$6,179		\$3,600	\$11,079	
Project Communications	2,18,24					\$12,400	\$12,400	
City Council Engagement	24	\$100				\$2,150	\$2,250	
Utility Coordination								
Conflict identification and resolution	11						\$0	
Fieldwork coordination	11	\$50		\$1,409			\$1,459	
Utility Meetings (Assume 1)	11	\$25		\$804			\$829	
Permit Preparation (City, County, State)	5						\$0	
Preliminary Environmental Protection Plan	21						\$0	
Preliminary Quantities/Cost Estimate	4			\$1,861			\$1,861	
Preliminary Special Provisions	4			\$2,113			\$2,113	
QA/QC	1			\$2,313			\$2,313	
Project Management	1			\$1,076			\$1,076	
Preliminary Plan Review Meeting	19						\$0	
Progress Meetings (Assume 8)	25	\$700		\$3,720		\$8,600	\$13,020	
Subtotal - Task 2		\$1,875	\$1,000	\$75,461	\$0	\$61,150	\$0	\$139,486

FEE PROPOSAL - DIRECT COSTS
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TASK 3 - FINAL DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN					DIRECT COSTS	
		Mileage	Plots/ Handouts	SUB URS ¹	SUB CTI ²	SUB Bridgeport ³		
Final Roadway/Utility Design & Plans								
Sheet Plan Preparation	8,12,14,19						\$0	
Reference File Preparation	8,12,14,19						\$0	
Utility Design (WM & San)	11						\$0	
Pavement Markings	17						\$0	
Final Retaining Wall Design & Plans								
Final Retaining Wall Design & Plans	7,20			\$4,426			\$4,426	
Right-of-Way and Real Estate Impacts								
Review impacts and limits of work	8,23						\$0	
Prepare exhibits and descriptions	3,23						\$0	
Maintaining Traffic Design & Plans								
Traffic Operations and Modeling	15			\$11,840			\$11,840	
Critical Path Analysis and Coordination	16						\$0	
MOT Final Plan Preparation	12,16						\$0	
Detour route improvements plan prep.	12,17						\$0	
Landscape Plans and Street Lighting								
Landscape Plans and Street Lighting	7,19,21,22			\$29,671			\$29,671	
Stormwater Drainage Systems								
Prepare Final Drainage Report	9						\$0	
Prepare final facilities design/plans	9						\$0	
Utility Coordination								
Conflict identification and resolution	11						\$0	
Fieldwork coordination	11	\$50					\$50	
Utility Meetings (Assume 1)	11	\$25					\$25	
Permit Preparation (City, County, State)	5						\$0	
Final Environmental Protection Plan	21						\$0	
Final Quantities/Cost Estimate	4			\$5,758			\$5,758	
Final Special Provisions	4			\$4,402			\$4,402	
QA/QC	1			\$3,821			\$3,821	
Project Management	1			\$1,076			\$1,076	
MDOT GI Meeting	19	\$200		\$2,010			\$2,210	
Progress Meetings (Assume 10)	25	\$900		\$3,720			\$4,620	
Subtotal - Task 3		\$1,175	\$0	\$66,724	\$0	\$0	\$0	\$67,899
PROJECT TOTALS	0	\$4,775	\$1,000	\$185,243	\$41,869	\$61,150	\$0	\$294,037

Notes

- 1 - See attached URS Sub-Consultant Fee Proposal for Details
- 2 - See attached CTI Sub-Consultant Fee Proposal for Details
- 3 - See attached Bridgeport Sub-Consultant Fee Proposal for Details

FEE PROPOSAL
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

URS Corp.
 3950 Sparks Drive
 Grand Rapids, MI 49546
 (616) 574-8542

<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager & QA/QC	\$155.94
Project Engineer, PE or PS	\$112.99
Design Engineer, EI	\$88.05
Field Surveyor	\$58.70

DERIVATION OF HOURLY RATES

Overhead Rate: 118.37%
 Profit: 12%

<u>NAME</u>	<u>TITLE</u>	<u>AVG. RATE</u>	<u>HOURLY RATE *</u>
Matt Klawon, PE	PM & QA/AC	\$63.76	\$155.94
Various	Project PE/PS	\$46.20	\$112.99
Various	Design Engineer, EI	\$36.00	\$88.05
Various	Field Surveyor	\$24.00	\$58.70

* Hourly Rate = Salary Rate x (1+Overhead Rate) x (1+Profit)

TASK 1 - FIELD WORK AND BASE DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY					Total Hours	DIRECT COSTS	TOTAL COST
		PM & QA/QC	Project PE/PS	Design Engineer	Field Surveyor				
Kickoff Meeting	25	10	10	10		30	\$150	\$3,720	
Topographic Survey & ROW Establishment									
Record Research (incl. avail. survey)	3,23					0	\$0	\$0	
Fieldwork	3,10,11			8		8	\$100	\$804	
Establish alignments and ROW	3,23					0	\$0	\$0	
Prepare topo drawing and DTM Survey Package	3,10,11,23					0	\$0	\$0	
	3					0	\$0	\$0	
Geotechnical Investigation									
Record Research (incl. avail. info)	10					0	\$0	\$0	
Fieldwork	10					0	\$0	\$0	
Report and Recommendations	10					0	\$0	\$0	
Traffic Counts	13	4	16	40	220	280	\$1,800	\$20,667	
Utility Coordination									
Record Research (incl. avail. info)	11					0	\$0	\$0	
Fieldwork coordination	11			8		8	\$0	\$704	
Conflict identification and resolution	11					0	\$0	\$0	
Utility Meetings (Assume 1)	11			8		8	\$100	\$804	
Base Plan Preparation									
Sheet Plan Preparation	8,12,14,19					0	\$0	\$0	
Reference File Preparation	8,12,14,19					0	\$0	\$0	
Conceptual Plan Preparation	8,12,14,19		40	80		120	\$0	\$11,563	
Project Management	1	4	4			8	\$0	\$1,076	
Progress Meetings (Assume 1)	25	10	10	10		30	\$150	\$3,720	
Subtotal - Task 1		28	80	164	220	492	\$2,300	\$43,058	

FEE PROPOSAL
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR

June 20, 2014

URS Corp.
 3950 Sparks Drive
 Grand Rapids, MI 49546
 (616) 574-8542

<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager & QA/QC	\$155.94
Project Engineer, PE or PS	\$112.99
Design Engineer, EI	\$88.05
Field Surveyor	\$58.70

TASK 2 - PRELIMINARY DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY					DIRECT COSTS	TOTAL COST	
		PM & QA/QC	Project PE/PS	Design Engineer	Field Surveyor	Total Hours			
Preliminary Roadway Design & Plans									
	Sheet Plan Preparation	8,12,14,19					0	\$0	\$0
	Reference File Preparation	8,12,14,19					0	\$0	\$0
	Life-Cycle Cost Analysis	6					0	\$0	\$0
	Utility Design (WM & San)	11					0	\$0	\$0
	Pavement Markings	17					0	\$0	\$0
Preliminary Retaining Wall Design & Plans									
	Retaining Wall Type Study	7,20		4	16		20	\$0	\$1,861
	Prelim. Retaining Wall Design & Plans	7,20					0	\$0	\$0
Right-of-Way and Real Estate Impacts									
	Review impacts and limits of work	8,23					0	\$0	\$0
	Prepare exhibits and descriptions	3,23					0	\$0	\$0
Maintaining Traffic Design & Plans									
	Conceptual Alternatives	8,15					0	\$0	\$0
	Traffic Operations and Modeling	15	15	50	180	120	365	\$200	\$31,080
	Critical Path Analysis and Coordination	16					0	\$0	\$0
	Conceptual Approval Meeting (Assume 1)	15,16	4	4			8	\$100	\$1,176
	MOT Preliminary Plan Preparation	12,16					0	\$0	\$0
	Detour route improvements plan prep.	12,17					0	\$0	\$0
Landscape Plans and Streetlighting									
	Landscape Plans and Streetlighting	7,19,21,22		28	108		136	\$0	\$12,673
Stormwater Drainage Systems									
	Review existing system	9					0	\$0	\$0
	Prepare conceptual facilities design	9					0	\$0	\$0
	Prepare preliminary facilities design/plans	9		16	16		32	\$0	\$3,217
Public Awareness and Involvement									
	Scoping and Design	2,18,24					0	\$0	\$0
	Content and Materials	2,18,24					0	\$0	\$0
	Stakeholder Meetings (2)	24	20	20			40	\$600	\$5,979
	Public Meetings (2)	2,18	20	20			40	\$800	\$6,179
	Project Communications	2,18,24					0	\$0	\$0
	City Council Engagement	24					0	\$0	\$0
Utility Coordination									
	Conflict identification and resolution	11					0	\$0	\$0
	Fieldwork coordination	11			16		16	\$0	\$1,409
	Utility Meetings (Assume 1)	11			8		8	\$100	\$804
	Permit Preparation (City, County, State)	5					0	\$0	\$0
	Preliminary Environmental Protection Plan	21					0	\$0	\$0
	Preliminary Quantities/Cost Estimate	4		4	16		20	\$0	\$1,861
	Preliminary Special Provisions	4			24		24	\$0	\$2,113
	QA/QC	1		8	16		24	\$0	\$2,313
	Project Management	1	4	4			8	\$0	\$1,076
	Preliminary Plan Review Meeting	19					0	\$0	\$0
	Progress Meetings (Assume 1)	25					30	\$150	\$3,720
Subtotal - Task 2			73	168	410	120	771	\$1,950	\$75,458

FEE PROPOSAL
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR

June 20, 2014

URS Corp.
 3950 Sparks Drive
 Grand Rapids, MI 49546
 (616) 574-8542

<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager & QA/QC	\$155.94
Project Engineer, PE or PS	\$112.99
Design Engineer, EI	\$88.05
Field Surveyor	\$58.70

TASK 3 - FINAL DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY					Total Hours	DIRECT COSTS	TOTAL COST
		PM & QA/QC	Project PE/PS	Design Engineer	Field Surveyor				
Final Roadway Design & Plans									
	Sheet Plan Preparation	8,12,14,19					0	\$0	\$0
	Reference File Preparation	8,12,14,19					0	\$0	\$0
	Utility Design (WM & San)	11					0	\$0	\$0
	Pavement Markings	17					0	\$0	\$0
Final Retaining Wall Design & Plans									
	Final Retaining Wall Design & Plans	7,20		8	40		48	\$0	\$4,426
Right-of-Way and Real Estate Impacts									
	Review impacts and limits of work	8,23					0	\$0	\$0
	Prepare exhibits and descriptions	3,23					0	\$0	\$0
Maintaining Traffic Design & Plans									
	Traffic Operations and Modeling	15	8	24	60	40	132	\$250	\$11,840
	Critical Path Analysis and Coordination	16					0	\$0	\$0
	MOT Final Plan Preparation	12,16					0	\$0	\$0
	Detour route improvements plan prep.	12,17					0	\$0	\$0
Landscape Plans and Streetlighting									
	Landscape Plans and Streetlighting	7,19,21,22		60	260		320	\$0	\$29,671
Stormwater Drainage Systems									
	Prepare Final Drainage Report	9					0	\$0	\$0
	Prepare final facilities design/plans	9					0	\$0	\$0
Utility Coordination									
	Conflict identification and resolution	11					0	\$0	\$0
	Fieldwork coordination	11					0	\$0	\$0
	Utility Meetings (Assume 0)	11					0	\$0	\$0
	Permit Preparation (City, County, State)	5					0	\$0	\$0
	Final Environmental Protection Plan	21					0	\$0	\$0
	Final Quantities/Cost Estimate	4		12	50		62	\$0	\$5,758
	Final Special Provisions	4			50		50	\$0	\$4,402
	QA/QC	1		12	28		40	\$0	\$3,821
	Project Management	1	4	4			8	\$0	\$1,076
	Preliminary Plan Review Meeting	19		10	10		20	\$0	\$2,010
	Progress Meetings (Assume 1)	25	10	10	10		30	\$150	\$3,720
Subtotal - Task 3			22	140	508	40	710	\$400	\$66,724
PROJECT TOTALS			123	388	1082	380	1973	\$4,650	\$185,241

FEE PROPOSAL - DIRECT COSTS
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

URS Corp.
 3950 Sparks Drive
 Grand Rapids, MI 49546
 (616) 574-8542

TASK 1 - FIELD WORK AND BASE DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN					DIRECT COSTS	
		Mileage	Boards/ Handouts					
Kickoff Meeting	25	\$150					\$150	
Topographic Survey & ROW Establishment								
Record Research (incl. avail. survey)	3,23						\$0	
Fieldwork	3,10,11	\$100					\$100	
Establish alignments and ROW	3,23						\$0	
Prepare topo drawing and DTM	3,10,11,23						\$0	
Survey Package	3						\$0	
Geotechnical Investigation								
Record Research (incl. avail. info)	10						\$0	
Fieldwork	10						\$0	
Report and Recommendations	10						\$0	
Traffic Counts	13	\$1,800					\$1,800	
Utility Coordination								
Record Research (incl. avail. info)	11						\$0	
Fieldwork coordination	11						\$0	
Conflict identification and resolution	11						\$0	
Utility Meetings (Assume 1)	11	\$100					\$100	
Base Plan Preparation								
Sheet Plan Preparation	8,12,14,19						\$0	
Reference File Preparation	8,12,14,19						\$0	
Conceptual Plan Preparation	8,12,14,19						\$0	
Project Management	1						\$0	
Progress Meetings (Assume 1)	25	\$150					\$150	
Subtotal - Task 1		\$2,300	\$0	\$0	\$0	\$0	\$0	\$2,300

FEE PROPOSAL - DIRECT COSTS
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

URS Corp.
 3950 Sparks Drive
 Grand Rapids, MI 49546
 (616) 574-8542

TASK 2 - PRELIMINARY DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN					DIRECT COSTS
		Mileage	Boards/ Handouts				
Preliminary Roadway Design & Plans							
Sheet Plan Preparation	8,12,14,19						\$0
Reference File Preparation	8,12,14,19						\$0
Life-Cycle Cost Analysis	6						\$0
Utility Design (WM & San)	11						\$0
Pavement Markings	17						\$0
Preliminary Retaining Wall Design & Plans							
Retaining Wall Type Study	7,20						\$0
Prelim. Retaining Wall Design & Plans	7,20						\$0
Right-of-Way and Real Estate Impacts							
Review impacts and limits of work	8,23						\$0
Prepare exhibits and descriptions	3,23						\$0
Maintaining Traffic Design & Plans							
Conceptual Alternatives	8,15						\$0
Traffic Operations and Modeling	15	\$200					\$200
Critical Path Analysis and Coordination	16						\$0
Conceptual Approval Meeting (Assume 1)	15,16	\$100					\$100
MOT Preliminary Plan Preparation	12,16						\$0
Detour route improvements plan prep.	12,17						\$0
Landscape Plans and Streetlighting							
Landscape Plans and Streetlighting	7,19,21,22						\$0
Stormwater Drainage Systems							
Review existing system	9						\$0
Prepare conceptual facilities design	9						\$0
Prepare preliminary facilities design/plans	9						\$0
Public Awareness and Involvement							
Scoping and Design	2,18,24						\$0
Content and Materials	2,18,24						\$0
Stakeholder Meetings (2)	24	\$300	\$300				\$600
Public Meetings (2)	2,18	\$300	\$500				\$800
Project Communications	2,18,24						\$0
City Council Engagement	24						\$0
Utility Coordination							
Conflict identification and resolution	11						\$0
Fieldwork coordination	11						\$0
Utility Meetings (Assume 1)	11	\$100					\$100
Permit Preparation (City, County, State)	5						\$0
Preliminary Environmental Protection Plan	21						\$0
Preliminary Quantities/Cost Estimate	4						\$0
Preliminary Special Provisions	4						\$0
QA/QC	1						\$0
Project Management	1						\$0
Preliminary Plan Review Meeting	19						\$0
Progress Meetings (Assume 1)	25	\$150					\$150
Subtotal - Task 2		\$1,150	\$800	\$0	\$0	\$0	\$1,950

FEE PROPOSAL - DIRECT COSTS
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

URS Corp.
 3950 Sparks Drive
 Grand Rapids, MI 49546
 (616) 574-8542

TASK 3 - FINAL DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN						DIRECT COSTS
		Mileage	Boards/ Handouts					
Final Roadway Design & Plans								
Sheet Plan Preparation	8,12,14,19							\$0
Reference File Preparation	8,12,14,19							\$0
Utility Design (WM & San)	11							\$0
Pavement Markings	17							\$0
Final Retaining Wall Design & Plans								
Final Retaining Wall Design & Plans	7,20							\$0
Right-of-Way and Real Estate Impacts								
Review impacts and limits of work	8,23							\$0
Prepare exhibits and descriptions	3,23							\$0
Maintaining Traffic Design & Plans								
Traffic Operations and Modeling	15	\$250						\$250
Critical Path Analysis and Coordination	16							\$0
MOT Final Plan Preparation	12,16							\$0
Detour route improvements plan prep.	12,17							\$0
Landscape Plans and Streetlighting								
Landscape Plans and Streetlighting	7,19,21,22							\$0
Stormwater Drainage Systems								
Prepare Final Drainage Report	9							\$0
Prepare final facilities design/plans	9							\$0
Utility Coordination								
Conflict identification and resolution	11							\$0
Fieldwork coordination	11							\$0
Utility Meetings (Assume 0)	11							\$0
Permit Preparation (City, County, State)	5							\$0
Final Environmental Protection Plan	21							\$0
Final Quantities/Cost Estimate	4							\$0
Final Special Provisions	4							\$0
QA/QC	1							\$0
Project Management	1							\$0
Preliminary Plan Review Meeting	19							\$0
Progress Meetings (Assume 1)	25	\$150						\$150
Subtotal - Task 3		\$400	\$0	\$0	\$0	\$0	\$0	\$400
PROJECT TOTALS	0	\$3,850	\$800	\$0	\$0	\$0	\$0	\$4,650

FEE PROPOSAL
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

CTI and Associates, Inc.
 51331 W. Pontiac Trail
 Wixom, MI 48393
 (248) 486-5100

<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager & QA/QC	\$97.68
Project Engineer, PE or PS	\$73.26
Design Engineer, EI	\$0.00
Field Surveyor	\$0.00
Sr. Engineer	\$109.89
Staff Scientist	\$54.95
Engineering Technician	\$42.74

DERIVATION OF HOURLY RATES

Overhead Rate: 175.00%
 Profit: 11%

NAME	TITLE	AVG. RATE	HOURLY RATE *
Theresa Marsik, P.E.	PM & QA/AC	\$32.00	\$97.68
Kyle Ebenstein, EIT	Project PE/PS	\$24.00	\$73.26
Various	Design Engineer, EI		\$0.00
Various	Field Surveyor		\$0.00
Kevin Foye, Ph.D., P.E.	Sr. Engineer	\$36.00	\$109.89
Dayna Kent	Staff Scientist	\$18.00	\$54.95
various	Engineering Technician	\$14.00	\$42.74

* Hourly Rate = Salary Rate x (1+Overhead Rate) x (1+Profit)

TASK 1 - FIELD WORK AND BASE DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY							Total Hours	DIRECT COSTS	TOTAL COST
		PM & QA/QC	Project PE/PS	Design Engineer	Field Surveyor	Sr. Engineer	Staff Scientist	Engrg. Tech.			
Kickoff Meeting	25							0	\$0	\$0	
Topographic Survey & ROW Establishment											
Record Research (incl. avail. survey)	3,23							0	\$0	\$0	
Fieldwork	3,10,11							0	\$0	\$0	
Establish alignments and ROW	3,23							0	\$0	\$0	
Prepare topo drawing and DTM	3,10,11,23							0	\$0	\$0	
Survey Package	3							0	\$0	\$0	
Geotechnical Investigation											
Record Research (incl. avail. info)	10	4						4	\$0	\$391	
Fieldwork	10	4	18					78	\$27,636	\$32,324	
Report and Recommendations	10	12				2	48	8	22	\$7,420	\$9,154
Traffic Counts	13							0	\$0	\$0	
Utility Coordination											
Record Research (incl. avail. info)	11							0	\$0	\$0	
Fieldwork coordination	11							0	\$0	\$0	
Utility Meetings (Assume X)	11							0	\$0	\$0	
Base Plan Preparation											
Sheet Plan Preparation	8,12,14,19							0	\$0	\$0	
Reference File Preparation	8,12,14,19							0	\$0	\$0	
Conceptual Plan Preparation	8,12,14,19							0	\$0	\$0	
Project Management	1							0	\$0	\$0	
Progress Meetings (Assume X)	25							0	\$0	\$0	
Subtotal - Task 1		20	18	0	0	2	48	16	104	\$35,056	\$41,869
PROJECT TOTALS		20	18	0	0	2	48	16	104	\$35,056	\$41,869

FEE PROPOSAL - DIRECT COSTS
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

CTI and Associates, Inc.
 51331 W. Pontiac Trail
 Wixom, MI 48393
 (248) 486-5100

TASK 1 - FIELD WORK AND BASE DESIGN	SCOPE REF. (RFP pp. 8-13)	DIRECT COST BREAKDOWN								Geo Lab Testing ³	Analytical Testing ⁴	DIRECT COSTS
		Mileage	Traffic Control ¹	Permits	Access Equipment	Hazardous Mat'l ²	Boards/ Handouts	FWD	Drilling			
Kickoff Meeting	25											\$0
Topographic Survey & ROW Establishment												
Record Research (incl. avail. survey)	3,23											\$0
Fieldwork	3,10,11											\$0
Establish alignments and ROW	3,23											\$0
Prepare topo drawing and DTM	3,10,11,23											\$0
Survey Package	3											\$0
Geotechnical Investigation												
Record Research (incl. avail. info)	10											\$0
Fieldwork	10	\$269	\$1,400			\$800		\$6,435	\$18,732	\$4,120	\$3,300	\$27,636
Report and Recommendations	10											\$7,420
Traffic Counts	13											\$0
Utility Coordination												
Record Research (incl. avail. info)	11											\$0
Fieldwork coordination	11											\$0
Utility Meetings (Assume X)	11											\$0
Base Plan Preparation												
Sheet Plan Preparation	8,12,14,19											\$0
Reference File Preparation	8,12,14,19											\$0
Conceptual Plan Preparation	8,12,14,19											\$0
Project Management	1											\$0
Progress Meetings (Assume X)	25											\$0
Subtotal - Task 1		\$269	\$1,400	\$0	\$0	\$800	\$0	\$6,435	\$18,732	\$4,120	\$3,300	\$35,056
PROJECT TOTALS	0	\$269	\$1,400	\$0	\$0	\$800	\$0	\$6,435	\$18,732	\$4,120	\$3,300	\$35,056

Notes

- 1 - Advance warning signs and flashing arrowboard for 1 day of FWD and 6 days of drilling
- 2 - Drumming and disposal of excess cuttings
- 3 - To be done in-house by CTI. Includes visual classification of every sample, 6 granular permeability tests; 6 sieves; 10 sets of corrosivity tests (pH, Resistivity, ORP); and moisture content determination and unconfined compressive strength estimates on select samples
- 4 - Includes 10 sets of VOCs, PNA's, and Michigan 10 Metals tests

FEE PROPOSAL
STADIUM BOULEVARD RECONSTRUCTION PROJECT, HUTCHINS TO KIPKE DRIVE
CITY OF ANN ARBOR
 June 20, 2014

Bridgeport Consulting LLC
 1405 Arborview Blvd.
 Ann Arbor, MI 48103
 (734) 260-1926

<u>Personnel Category</u>	<u>Hourly Rate</u>
Lead Public Engagement Consultant	\$175.00
Support Public Engagement Consultant	\$125.00

TASK 2 - PRELIMINARY DESIGN	SCOPE REF. (RFP pp. 8-13)	HOURS BY PERSONNEL CATEGORY				Total Hours	DIRECT COSTS	TOTAL COST	
		Lead	Support						
Preliminary Roadway/Utility Design & Plans									
	Sheet Plan Preparation	8,12,14,19				0	\$0	\$0	
	Reference File Preparation	8,12,14,19				0	\$0	\$0	
	Life-Cycle Cost Analysis	6				0	\$0	\$0	
	Utility Design (WM & San)	11				0	\$0	\$0	
	Pavement Markings	17				0	\$0	\$0	
Preliminary Retaining Wall Design & Plans									
	Retaining Wall Type Study	7,20				0	\$0	\$0	
	Prelim. Retaining Wall Design & Plans	7,20				0	\$0	\$0	
Right-of-Way and Real Estate Impacts									
	Review impacts and limits of work	8,23				0	\$0	\$0	
	Prepare exhibits and descriptions	3,23				0	\$0	\$0	
Maintaining Traffic Design & Plans									
	Conceptual Alternatives	8,15				0	\$0	\$0	
	Traffic Operations and Modeling	15				0	\$0	\$0	
	Critical Path Analysis and Coordination	16				0	\$0	\$0	
	Conceptual Approval Meeting (Assume 1)	15,16				0	\$0	\$0	
	MOT Preliminary Plan Preparation	12,16				0	\$0	\$0	
	Detour route improvements plan prep.	12,17				0	\$0	\$0	
Landscape Plans and Street Lighting									
	Landscape Plans and Street Lighting	7,19,21,22				0	\$0	\$0	
Stormwater Drainage Systems									
	Review existing system	9				0	\$0	\$0	
	Prepare conceptual facilities design	9				0	\$0	\$0	
	Prepare preliminary facilities design/plans	9				0	\$0	\$0	
Public Awareness and Involvement									
	Scoping and Design	2,18,24	40	32		72	\$0	\$11,000	
	Content and Materials	2,18,24	56	40		96	\$0	\$14,800	
	Stakeholder Meetings (15)	24	32	24		56	\$0	\$8,600	
	Public Meetings (Assume 3)	2,18	12	12		24	\$0	\$3,600	
	Project Communications	2,18,24	48	32		80	\$0	\$12,400	
	City Council Engagement	24	8	6		14	\$0	\$2,150	
Utility Coordination									
	Conflict identification and resolution	11				0	\$0	\$0	
	Fieldwork coordination	11				0	\$0	\$0	
	Utility Meetings (Assume 1)	11				0	\$0	\$0	
	Permit Preparation (City, County, State)	5				0	\$0	\$0	
	Preliminary Environmental Protection Plan	21				0	\$0	\$0	
	Preliminary Quantities/Cost Estimate	4				0	\$0	\$0	
	Preliminary Special Provisions	4				0	\$0	\$0	
	QA/QC	1				0	\$0	\$0	
	Project Management	1				0	\$0	\$0	
	Preliminary Plan Review Meeting	19				0	\$0	\$0	
	Progress Meetings (Assume 8)	25	32	24		56	\$0	\$8,600	
Subtotal - Task 2			228	170	0	0	398	\$0	\$61,150
PROJECT TOTALS			228	170	0	0	398	\$0	\$61,150

EXHIBIT "C"
INSURANCE REQUIREMENTS

Effective the date of this Agreement, and continuing without interruption during the term of this Agreement, Consultant shall have the insurance required below and shall provide certificates of insurance to the City on behalf of itself and, when requested, any subcontractor(s).

A. The Consultant shall have insurance that meets the following minimum requirements:

1. Professional Liability Insurance or Errors and Omissions Insurance protecting the Consultant and its employees in an amount not less than \$1,000,000.
2. Worker's Compensation Insurance in accordance with all applicable state and federal statutes. Further, Employers Liability Coverage shall be obtained in the following minimum amounts:

Bodily Injury by Accident - \$500,000 each accident
Bodily Injury by Disease - \$500,000 each employee
Bodily Injury by Disease - \$500,000 each policy limit

3. Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 07 98 or current equivalent. The City of Ann Arbor shall be an additional insured. There shall be no added exclusions or limiting endorsements which diminish the City's protections as an additional insured under the policy. Further, the following minimum limits of liability are required:

\$1,000,000 Each occurrence as respect Bodily Injury Liability or
Property Damage Liability, or both combined
\$2,000,000 Per Job General Aggregate
\$1,000,000 Personal and Advertising Injury

4. Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, equivalent to, as a minimum, Insurance Services Office form CA 00 01 07 97 or current equivalent. There shall be no added exclusions or limiting endorsements. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. Further, the limits of liability shall be \$1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.

5. Umbrella/Excess Liability Insurance shall be provided to apply in excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of \$1,000,000.
- B. Insurance required under A.3 and A.4 above shall be considered primary as respects any other valid or collectible insurance that the City may possess, including any self-insured retentions the City may have; and any other insurance the City does possess shall be considered excess insurance only and shall not be required to contribute with this insurance. Further, the Consultant agrees to waive any right of recovery by its insurer against the City.
 - C. Documentation must demonstrate an unconditional 30 day written notice of cancellation in favor of the City of Ann Arbor. Further, the documentation must explicitly state the following: (a) the policy number; name of insurance company; name and address of the agent or authorized representative; name and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions which shall be approved by the City, in its sole discretion; (c) that the policy conforms to the requirements specified. A certificate of insurance may be provided as an initial indication of the required insurance, provided that no later than 21 calendar days after commencement of any work the Consultant supplies a copy of the endorsements required on the policies. Upon request, the Consultant shall provide within 30 days a copy of the policy(ies) to the City. If any of the above coverages expire by their terms during the term of this contract, the Consultant shall deliver proof of renewal and/or new policies to the Administering Service Area/Unit at least ten days prior to the expiration date.