

**GENERAL MEETING OF THE BOARD OF DIRECTORS
OF THE
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

RESOLUTION NO. 11-082

**APPROVE A WORK AUTHORIZATION UNDER THE GEC MASTER
CONTRACT WITH HNTB CORPORATION FOR PROJECT SPECIFIC
SERVICES RELATED TO THE DEVELOPMENT OF
THE MANCHACA EXPRESSWAY (APPROXIMATELY 4 MILES OF THE SH
45 SOUTHWEST CORRIDOR, FROM LOOP 1 TO FM 1626).**

WHEREAS, HNTB Corporation (“HNTB”) serves as a general engineering consultant to the Central Texas Regional Mobility Authority (“CTRMA”) under the Agreement for General Consulting Civil Engineering Services effective January 1, 2010 (the “Agreement”); and

WHEREAS, HNTB and the Executive Director have discussed and agreed to a proposed work authorization, a copy of which is attached and incorporated into this resolution as Attachment A, for HNTB to perform certain project management, administrative tasks and program oversight duties related to CTRMA’s development of the Manchaca Expressway; and


WHEREAS, the Executive Director recommends approval of the proposed amendment.

NOW THEREFORE, BE IT RESOLVED that the Board of Directors approves the proposed Work Authorization No. 9, in the form or substantially the same form as Attachment A; and

BE IT FURTHER RESOLVED that the proposed supplemental work authorization, as approved, may be finalized and executed by the Executive Director on behalf of CTRMA.


Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 29th day of June, 2011.

Submitted and reviewed by:



Andrew Martin
General Counsel for the Central
Texas Regional Mobility Authority

Approved:



Ray A. Wilkerson
Chairman, Board of Directors
Resolution Number: 11-082
Date Passed: 6/29/11

ATTACHMENT "A" TO RESOLUTION 11-082

PROPOSED WORK AUTHORIZATION NO. 8

[on the following 10 pages]

APPENDIX D

WORK AUTHORIZATION

WORK AUTHORIZATION NO. 8.0

This Work Authorization is made as of this 1st day of July, 2011, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of December 23rd, 2009 (the "Agreement"), between the Central Texas Regional Mobility Authority ("Authority") and **HNTB Corporation** ("GEC"). This Work Authorization is made for the following purpose, consistent with the services defined in the Agreement:

Manchaca Expressway Project Development

Section A. - Scope of Services

A.1. GEC shall perform the following Services:

Please reference Attachment A – Scope of Work

A.2. The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

N/A

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

Please reference Attachment A – Scope of Work

Section B. - Schedule

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein are expected to be substantially complete within thirty (36) months from the date this Work Authorization 8.0 becomes effective. This Work Authorization 8.0 will not expire until all tasks associated with the Scope of Services are complete.

Section C. - Compensation

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed **\$1,996,351** based on a Cost Plus fee listed in Attachment B – Fee Estimate. Compensation shall be in accordance with the Agreement.

The Authority and the GEC agree that the budget amounts contained in Attachment B-Fee Estimate for the GEC are estimates and that these individual figures may be redistributed and/or adjusted as necessary over the duration of this Work Authorization. The GEC may alter the compensation distribution between tasks or work assignments to be consistent with

the Services actually rendered within the total Work Authorization amount. The GEC shall not exceed the maximum amount payable without prior written permission by the Authority.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

Section D. - Authority's Responsibilities

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

Section E. - Other Provisions

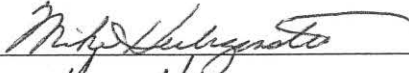
The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.


Authority:

**CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY**

By: 
Name: MIKE HEILIGENSTEIN
Title: EXECUTIVE DIRECTOR
Date: 6/29/11

GEC:

HNTB Corporation

By: 
Name: Glenn G. Gregory, Jr
Title: Vice President
Date: 6/28/11

CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**ATTACHMENT A – SCOPE OF SERVICES****WORK AUTHORIZATION NO. 8****SERVICES TO BE PROVIDED BY the GENERAL ENGINEERING CONSULTANT
(GEC)****General**

The services to be performed by GEC will include, but not be limited to, professional services and deliverables for various tasks related to the study and development of the Manchaca Expressway Project, "the Project". The limits of the services are from Loop 1 (MoPac) South to FM 1626. Because GEC has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet project schedules, the GEC's opinion of probable costs shall be made on the basis of experience and qualifications as a practitioner of its profession. GEC does not guarantee that proposals, bids, or actual project costs will not vary from GEC's construction cost estimates and/or GEC's projected schedules. No review, coordination or monitoring services by GEC under this Agreement relieve other project participant's of their contractual obligations to the Authority or any other party.

1.0 PROJECT MANAGEMENT & ADMINISTRATION

The GEC will perform project management, administrative and coordination duties, including contract administration, project management, reporting, meeting minutes of required meetings and telephone conversations, and other related administrative tasks (e.g., direct costs) associated with the Project, including:

1.1. Coordinate, Procure, and Administer Work Authorizations

Prepare contracts, as required, between the GEC and the Authority, GEC and subconsultants, and Authority and its Subconsultants. The GEC will also assist in the preparation of and/or review of contracts between the Authority and subconsultants. Monitor and coordinate subconsultant activities, review all work products prepared by subconsultant, review and approve subconsultant progress reports and invoices.

1.2. Progress Reports and Invoices

Prepare and issue monthly reports on the Project's status which will document any issues, delays encountered, and corrective actions as necessary. The GEC will also provide a monthly update to the Authority on key milestones accomplished during the preceding month, meetings, and key activities for the upcoming month, and identify outstanding issues requiring resolution.

Prepare monthly invoices and progress reports for the work tasks, together with evidence of services accomplished during the time period since the previous report. Prepare a detailed schedule (provide in the Authority approved format) of anticipated monthly invoice billing linking to the project work authorization tasks. A monthly progress report will be submitted and will include: activities completed, initiated or ongoing, during the reporting period; challenges encountered and actions to remedy them; overall status, including a tabulation of percentage complete by task; updated project schedule; and DBE utilization status. This includes reporting and invoicing to TxDOT for reimbursement of funding, quarterly reports and presentations, and preparation and support for monthly Project updates for distribution to stakeholders.

1.3. Record Keeping and File Management

Maintain, and, upload records and files, related to the Project, throughout the duration of GEC Services.

1.4. Correspondence

Prepare written materials, letters, survey forms, etc. used to solicit information or collect data for the project and submit them to the Authority for review and approval prior to its use or distribution. Copies of relevant outgoing correspondence and incoming correspondence will be provided to the Authority on a continuing basis.

1.5. Work Authorization Schedule

Prepare a detailed, graphic schedule linking work authorization tasks, subtasks, critical dates, milestones, deliverables, and the Authority/Texas Department of Transportation (TxDOT)/ Federal Highway Administration (FHWA) scheduled review requirements. The project schedule will be in a format that depicts the order and inter-dependence of the various tasks, subtasks, milestones and deliverables for each of the tasks identified therein. Progress will be reviewed periodically, and should these reviews indicate a substantial change in progress, a schedule recovery strategy will be developed collectively with the comprehensive Project team and the schedule will be revised accordingly. Implementation of the recovery schedule is subject to TxDOT's team.

1.6. Dashboard Update

Prepare and submit updated project information, including schedule and budget, for the Authority's dashboard on a monthly basis; provide QC review of revised information on website.

2.0 PROJECT DEVELOPMENT

This scope of services includes professional services and deliverables in support of the Authority's development of the Project from Loop 1 (MoPac) South to FM 1626.

2.1. Project Development Support

The GEC will provide support to the Authority as required during the Project Development process. Specific efforts will include

- 2.1.1. Loan and/or Grant Applications: Assist the Authority in the development of loan and/or grant applications for the project as required. This will include preparation of various elements of the loan and/or grant form and associated documentation for the Authority's review and approval; it will also include participation in the coordination efforts with State and/or Federal agencies as requested by the Authority.
- 2.1.2. Engineering and Technical Support: Provide various engineering and technical tasks as requested by the Authority including but not limited to: general engineering assistance, general technology assistance, general environmental coordination, reports, research, presentations, and meetings.
- 2.1.3. Traffic Modeling: Conduct a peer review of the CORSIM and/or VISSIM Traffic Models and provide summary of suggested revisions. Assist with coordination between consultants.
- 2.1.4. TxDOT and FHWA Coordination: Provide appropriate staff as part of coordination efforts between the Authority and TxDOT and FHWA. GEC will provide coordination efforts on the Authority's behalf at the direction of the Authority.
- 2.1.5. Traffic and Revenue (T&R) Consultant Coordination: Provide coordination and support to the Authority's T&R Consultant, as directed by the Authority.
- 2.1.6. Project Development Agreement (PDA): Assist in the development of the PDA, generation of PDA exhibits, review of PDA drafts, and TxDOT coordination support, as directed by the Authority.
- 2.1.7. CAMPO Coordination: Provide appropriate staff as part of coordination efforts between the Authority and CAMPO. GEC will provide coordination efforts on the Authority's behalf at the direction of the Authority.
- 2.1.8. Provide DBE Outreach as requested by the Authority.
- 2.1.9. Litigation Support: Provide litigation support which includes answering questions, reviewing documents and clarifying information as requested by the Authority. In the event HNTB is requested to attend a deposition or provide fact witness testimony, such time and expenses is an additional cost under this agreement and will be billed to CTRMA at HNTB's hourly rate for such individual.
- 2.1.10. Utility and Right-of-Way Support: Support the Authority in its efforts to coordinate future utility relocations and right-of-way acquisitions if needed.

2.2. Financial Planning Support

2.2.1. Operation, Maintenance, and Renewal & Replacement Estimate Updates

- 2.2.1.1. Develop and/or update GEC's opinion of probable operations cost estimates using either a Sketch Level approach (i.e., an assumed per transaction cost based on average operations costs of similar toll systems) or a Level 1 approach (i.e., estimate actual quantities for the various elements of the toll operations, enforcement and incident management and

applying anticipated unit prices to same to develop an opening year cost estimate which can be escalated over time).

- 2.2.1.2. Develop and/or update GEC's opinion of probable annual/routine maintenance cost estimates using either a Sketch Level approach (i.e., an estimated per centerline mile cost based on the facility type which considers the number of lanes, pavement material, and location) or a Level 1 approach (i.e., estimate actual quantities for the various elements of the maintenance efforts and applying anticipated unit prices to same to develop an opening year cost that can be escalated over time).
- 2.2.1.3. Develop and/or update GEC's opinion of probable renewal & replacement budget cost estimates (non-routine maintenance estimates) using either a Sketch Level approach (i.e., an estimated per mile cost based on renewal & replacement budgets utilized on similar facilities) or a Level 1 approach (i.e., includes the identification of a long-term, periodic maintenance/replacement schedule, estimation of quantities for the associated elements, and inflated prices of same to assess the overall cost requirements of the system in the target years).

2.2.2. Project Cost Estimate Updates

GEC will provide opinion of probable project cost estimate updates for the project. GEC will prepare an estimate of probable construction costs which will include quantity/cost estimates for major components of work such as; roadway paving, roadway earthwork, roadway drainage, bridge structures, retaining walls, other structures, signing and marking, lighting, and signalization. The estimate of probable construction costs will be used to estimate total project costs that will also include program management and oversight, preliminary engineering, final engineering, right-of-way (ROW) acquisition, environmental compliance/mitigation, construction, toll collection systems utility relocation and construction engineering and inspection (CEI), and financing costs.

Provide updates to preliminary costs estimate, schedule, financial feasibility analysis necessitated by the on-going project scoping/sizing process.

Incorporate the use of risk-based cost estimating as appropriate.

2.2.3. Toll Feasibility Analysis Updates

GEC will assist the Authority in updating toll feasibility analyses which includes the incorporation of traffic and revenue forecast updates (by others); operations, maintenance, and renewal & replacement estimates; and total project cost estimates to determine the financial feasibility of the project.

2.2.4. Financial Advisor Support/Financial Plan Development

GEC will provide financial advisor support necessary for the Authority to conduct financial programming of their system. This will include the development of cash flow analyses which contemplate implementation costs and schedules. GEC will also assist in the identification of priorities to support the determination of alternate project delivery scenarios. The tasks will include:

- Develop GEC's opinion of probable project costs based upon alternative project delivery approaches. Assess third party related costs for utility adjustments/relocations
- Coordinate the system financing plan which may include the 183A Phase I and II, the Mopac Improvement Project, and 290E Phase I and II projects, and may require the update and revision of the respective operations and maintenance costs, traffic and revenue studies, and renewal and replacement cost estimates.
- Assess funding sources such as state funds, federal formula funds, federal discretionary funds, and toll revenues.
- Assist with the assessment of financing techniques such as State Infrastructure Banks, the Transportation Infrastructure Finance and Innovation Act (TIFIA), Advanced Construction, Toll Revenue Bonds, TxDOT Toll Equity Grants, and other state bonds.
- Develop and provide summary of revenue shortfall mitigation strategies to minimize impacts on scheduled project delivery and prepare a summary of cost increases or reductions that could affect the cost of the project.
- Develop a Funding Contingency Plan should funding for the project as a whole not be provided and determine the impact of various design approaches on estimated project costs and project design life. GEC will:
 - Develop a list of “reasonable” design options for consideration such as project length reductions, ramp reductions, and pavement structure modifications
 - Meet with the Authority to get concurrence regarding design options prior to additional analysis.
 - Analyze and document the financial implications of the various design options considered and include such things as project cost, schedule impact, local economic impact, length of useful life, and impact on financing options.

2.3. Design Services – Toll Systems / Facilities Design

2.3.1. Toll Schematic Design Plans

The GEC will provide design services to develop schematic design plans for the toll collection system for the Project. It is anticipated the toll system will have four (4) toll locations along the Corridor and will utilize an Electronic Toll Collection (ETC) System (cashless). The GEC will prepare toll facilities preliminary design utilizing the roadway schematic prepared by others as a basis for the design. Sufficient input from the Authority and TxDOT will be included so that proper input is received regarding the design concept(s). The toll schematic design plans will be submitted to the Authority and TxDOT for approval prior to development of PS&E documents. Toll Systems/Facilities Schematic Design will include:

- Locate toll systems / facilities on Schematic Design plans.
- Include in the Schematic Design (in reference to toll systems):

- Plan view (Structural, Equipment Enclosures, Large Signs, Striping)
- Elevations
- General Sections
- Analysis of:
 - Toll Operations
 - Mechanical and Electrical Operations
 - Provisions for local utilities services
 - Facilities for surveillance, communication and control
 - Conceptual ITS interface and infrastructure
- Layouts for toll gantries
- Outline Specifications
- Opinion of Probable Construction Cost

2.3.2. Toll System/ Facilities PS&E Design 95%

- Based on the approved Schematic Design drawings and documents, the GEC will prepare the PS&E Documents. These documents will set forth in detail the requirements for construction of the toll collection systems portion of the Project. The PS&E Documents shall establish in detail the quality level of materials and systems for the toll collection systems / facilities and will include:
 - Plans
 - Elevations
 - Sections
 - Details
 - General Conditions
 - Technical Specifications
 - Updated Opinion of Probable Construction Cost
- 95% Review Documents and Plans will be submitted to the Authority and TxDOT for review. Any comments will be addressed and the updated 95% plans will be utilized for the CDA procurement. Any revisions that may be required for construction will be part of a future work authorization.

Surveillance, Communication and Control

- Development of Surveillance, Communication and Control (SC&C) plans, details and estimates is not included in this scope of services. However, conduits for SC&C facilities provided by others will be included as directed by the Authority.

Electrical Design

- The GEC will provide electrical design efforts related for the toll collection systems aspects of the Project.
- The GEC will provide required electrical standards.
- The GEC will provide necessary drawings and specifications to adequately describe the Electrical Design for the toll collection systems portion of the Project.

Utility Design

- The GEC will provide a preliminary report on utility requirements at the toll gantry locations.
- The GEC will determine availability of utilities locally and regionally at the gantries.
- The GEC will develop utility plan for regional and onsite service.
- Utility relocation plans are not included in this scope of services. Any utility relocation plans in the project area are assume to be the responsibility of the CDA Developer.

Miscellaneous

- The GEC will prepare general notes for the construction documents.
- The GEC will prepare list of governing specifications, special specifications and special provisions.
- The GEC will provide Quality Control/Quality Assurance for toll facilities design and plan production activities.

2.4. Design Services – Context Sensitive Design

Support the Authority in its efforts to provide context sensitive design solutions to the Project. The GEC will develop 95% Construction Plans and Specifications that will provide guidance and assistance to a developer for the final design of context sensitive solutions, to include hardscape and landscape planting enhancements, seeding and sodding and an irrigation system(s) along the Project. Landscape and Aesthetics Guidelines, will be developed as part of the Context Sensitive Design for the project and will establish hardscape and landscape planting enhancements for interchanges, underpasses, overpasses, medians, terraced planting, screening, and other unique locations of high visibility. These guidelines will provide the basis for the development of the 95% Landscape and Aesthetics related Construction Plans, Specifications, and Estimates.

2.4.1 Sustainability Design Competition:

As requested by the Authority, coordinate and participate in a Sustainability Design Competition to solicit innovative, “green” concepts and ideas, as well as to promote sustainability within the roadway design process. Incorporate ideas, where appropriate, into the Environmental Impact Statement and/or schematic.

2.5. Conceptual Operations Plan

Prepare a preliminary draft Conceptual Operations Plan for the Project which is intended to establish the basic framework for operations of the facility; including a basic definition of systems architecture for ITS and toll collection, incident management, safety and enforcement, and maintenance. The plan will include the roles and responsibilities of the various agencies. The basic approach for the development of the Conceptual Operations Plan will utilize the “183A CONCEPT OF OPERATIONS” and “MANOR EXPRESSWAY CONCEPT OF OPERATIONS” prepared for the Authority to the extent possible as a starting point for the Conceptual Operations Plan. This living document will identify program goals and specific project operational requirements, infrastructure, personnel, operations and maintenance support efforts, and resource requirements. In addition, the Conceptual Operations Plan will provide a preliminary program schedule and timeline of various activities to meet the Authority’s goals within the desired timeframe.

This task involves assisting the Authority with professional consulting services that include conceptual operations plan development and coordination with TxDOT, the City of Austin, Travis County, Hays County, TTI, and the Authority's Toll Systems Integrator. The work associated with the development of the Conceptual Operations Plan will include the following specific tasks.

2.5.1. Operations Plan Development

Based, in part, on the findings of industry research and the development of "Best Practices" for the operation of toll projects, prepare a draft preliminary Conceptual Operations Plan which presents the concept for operation of the proposed Project to include:

- Definition of the Operations Concept
- Description of the toll facility
- Description of the Systems Architecture, including
 - Toll Collection System components
 - Communications Infrastructure
 - ITS System and Interface
- Incident Management
- Enforcement
- Facility Maintenance
- Review of CTRMA policies to ensure they are applicable to the Project

2.5.2. Interagency Coordination

Assist the Authority in conducting a series of agency work sessions in order to develop a basic framework for establishment of the roles and responsibilities for the various respective agencies.

Based on discussions and conclusions identified during the interagency work sessions, prepare a basic organizational structure describing the roles and responsibilities of the agencies to be involved in the operation of the Project.

2.6. Pre-CDA Procurement Management Services Support

Support the Authority in its initial efforts to prepare deliverables required to complete the procurement of a development team (the Developer) to enter into a comprehensive development agreement (CDA) with the Authority to develop and construct the Project.

3.0 ENVIRONMENTAL SERVICES

3.1. Agency Coordination

Support the Authority in coordination activities with TxDOT Austin District, Consultants, Resource Agencies, TxDOT's Environmental Affairs Division, and the FHWA, as required; including meeting preparation and meeting participation. This includes but is not limited to TxDOT coordination meetings, FHWA coordination meetings, and EIS Technical Working Group meetings. Support the Authority in its efforts to adhere with the mandated Consent

Decree and Partial Final Judgment from Jan 23, 1990, in which deviation from the proposed Project design would require coordination with the Barton Springs/Edwards Aquifer Conservation District and, quite possibly, the Federal Court.

3.2. Document Review

- Review draft and final Environmental Documents and provide written comments and recommendations on such documents.
- Review draft and final schematic and provide written comments and recommendations on schematic.
- Reviews shall be for conformance to the applicable requirements of TxDOT and FHWA. Sources of materials will include data received from TxDOT and other federal, state and local governmental and quasi-governmental agencies and field investigations.

3.3 Schematic Design Review

GEC will provide design services to review the schematic design plans being prepared for the Project by TxDOT and its consultant(s). The fee allows for a draft and final review of schematics, including providing written comments and recommendations and a constructability review.

Bicycle and Pedestrian Accommodations: Support the Authority in its efforts to incorporate safe and feasible walking and bicycling connectivity into the Project per FHWA and TxDOT guidance.

4.0 Public Involvement Support

GEC will provide public involvement outreach support on behalf of the Authority for the environmental process, noise workshops, context sensitive design, and other stakeholders as identified.

Provide public involvement, neighborhood outreach, agency and elected official outreach services as requested by the Authority.

Provide a computer simulation of the Project for use in Open House meetings and outreach events as requested by the Authority.

[END OF SECTION]

TASK DESCRIPTION	CLASSIFICATION																				TOTAL HOURS			
	Group Director / Program Manager	Department Manager	Sr. Advisor / Project Director	Sr. Project Manager	Project Manager II	Project/Sr. Engineer	Engineer III	Sr. Technician	Sr. CPM Claims Analyst	Sr. Planner	Planner V	Sr. UDLA	UPD II	Public Involvement Mgr	Sr. Public Involvement Rep.	Sr. ITS Design Engineer	GIS Team Leader	Sr. Graphic Designer	Scientist II	Office Business Manager		Project Analyst	Admin. Assistant	Office Tech Specialist I
1.0 PROJECT MANAGEMENT AND ADMINISTRATION																								
1.1 Coordinate, Prepare, and Administer Work Authorizations	80	40			120										70						100		40	450
1.2 Progress Reports and Invoices	80				100				10						40					36	150	40	80	546
1.3 Record Keeping and File Management	40				24																300	60	220	664
1.4 Correspondence	40				40																20	20	60	180
1.5 Work Authorization Schedule	32	16	16	16	60				200														380	
1.6 Dashboard Update	40				60				40														200	
SUBTOTAL	312	56	16	16	404	0	100	0	250	0	0	0	0	0	110	0	0	0	0	36	580	140	400	2,420
2.0 PROJECT DEVELOPMENT																								
2.1 Project Development Support	210	120	80	200	360	240	240	240	40						360	240	120						200	2650
2.2 Financial Planning Support	120	16	40	180	40	80	0	0	0														100	576
2.3 Design Services - Toll Systems / Facilities Design	40	16	40	40	80	240	240	240	40							80							24	1040
2.4 Design Services - Context Sensitive Design	40	160	20		80	40	40			400	800												24	1604
2.5 Conceptual Operations Plan	40	20	20	160	40	20	20																100	420
SUBTOTAL	450	332	200	580	600	620	540	480	40	400	800	0	0	0	360	320	120	0	0	0	0	0	448	6290
3.0 ENVIRONMENTAL SERVICES																								
3.1 Agency Coordination	40	180	40	40	120	40					80	40								80			40	700
3.2 Document Review	40	360	40	80	160	240														160				1080
3.3 Schematic Design Review	40	24	40	20	200	240	120	120							40								24	868
SUBTOTAL	120	564	120	140	480	520	120	120	0	0	0	80	40	0	0	40	0	0	240	0	0	0	64	2,648
4.0 PUBLIC INVOLVEMENT SUPPORT																								
4.0 Public Involvement Support	40	80	20	40	40	20					40	60	40	400										800
SUBTOTAL	40	80	20	0	40	40	20	0	0	0	40	60	40	400	0	0	0	0	0	0	0	0	0	800
TOTAL HOURS	922	1,032	356	736	1,524	1,180	780	600	290	400	800	120	120	40	870	360	120	0	240	36	580	140	912	12,158
BASE RATE	\$ 101.05	\$ 78.49	\$ 109.95	\$ 84.39	\$ 60.25	\$ 50.40	\$ 38.15	\$ 45.51	\$ 45.69	\$ 65.61	\$ 48.71	\$ 66.59	\$ 27.52	\$ 43.93	\$ 34.89	\$ 57.90	\$ 41.29	\$ 41.16	\$ 34.01	\$ 46.17	\$ 26.59	\$ 20.23	\$ 24.71	
TOTAL LABOR	\$ 93,168	\$ 80,667	\$ 39,140	\$ 62,110	\$ 91,824	\$ 59,467	\$ 29,795	\$ 27,306	\$ 13,251	\$ 22,244	\$ 38,966	\$ 8,791	\$ 3,302	\$ 1,757	\$ 30,176	\$ 20,842	\$ 4,955	\$ -	\$ 8,162	\$ 1,662	\$ 15,421	\$ 2,832	\$ 22,536	\$ 676,667
LABOR BURDEN	\$ 173,442	\$ 150,784	\$ 72,864	\$ 115,624	\$ 170,940	\$ 110,704	\$ 55,393	\$ 50,833	\$ 24,669	\$ 41,409	\$ 72,540	\$ 12,642	\$ 6,148	\$ 3,271	\$ 56,176	\$ 38,800	\$ 9,225	\$ -	\$ 15,185	\$ 3,094	\$ 28,708	\$ 5,272	\$ 41,952	\$ 1,259,684
TOTAL	\$ 266,610	\$ 231,781	\$ 112,004	\$ 177,734	\$ 262,764	\$ 170,172	\$ 85,148	\$ 78,139	\$ 37,920	\$ 63,653	\$ 111,506	\$ 19,433	\$ 9,450	\$ 5,028	\$ 86,351	\$ 59,642	\$ 14,180	\$ -	\$ 23,358	\$ 4,757	\$ 44,129	\$ 8,105	\$ 64,488	\$ 1,936,351

EXPENSES	ITEM	Estimated Subcontractor Fee = \$250,000
MISCELLANEOUS EXPENSES	\$ 60,000	
MISCELLANEOUS SUBCONSULTANTS	TBD - Fee included in tasks above	
	\$ 60,000	

SUBTOTALS BY TASK	TOTAL HOURS	TOTAL LABOR	TOTAL BURDENED LABOR
1.0 PROJECT MANAGEMENT AND ADMINISTRATION	2,420	\$ 112,227	\$ 321,149
2.0 PROJECT DEVELOPMENT	6,290	\$ 362,362	\$ 1,036,992
3.0 ENVIRONMENTAL SERVICES	2,648	\$ 164,253	\$ 470,027
4.0 PUBLIC INVOLVEMENT SUPPORT	800	\$ 37,805	\$ 108,183
EXPENSES		\$ 60,000	
JOB TOTALS	12,158	\$ 676,667	\$ 1,996,351