

AMENDATORY AGREEMENT

THIS AMENDATORY AGREEMENT is made between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (the “City”), and **FELSBURG HOLT & ULLEVIG, INC.**, (the "Design Consultant") a Colorado corporation, whose address is 6300 South Syracuse Way, Suite 600, Centennial, Colorado 80111.

RECITALS:

A. The City and the Design Consultant entered into an Agreement dated April 20, 2010, relating to professional architecture and engineering design services (the “Agreement”); and

B. The City and the Design Consultant wish to amend the Agreement, to amend the scope and add additional funds;

NOW, THEREFORE, in consideration of the premises and the mutual covenants and obligations herein set forth, the parties agree as follows:

1. All references to “...Exhibit A...” in the Existing Agreement are amended to read: “...**Exhibit A** and **Exhibit A-1**, as applicable...” **Exhibit A-1** attached to this Amendatory Agreement.

2. All references to “...Exhibit B...” in the Existing Agreement are amended to read: “...**Exhibit B** and **Exhibit B-1**, as applicable...” **Exhibit B-1** is attached to this Amendatory Agreement.

3. Paragraph 2.01 entitled “**General**”, of the Agreement, is hereby deleted in its entirety and replaced with:

“**2.01 General.** The Design Consultant shall provide professional design services for the Project in accordance with the terms and conditions of this Agreement. The Design Consultant's basic services shall consist of all of those services described in this Agreement and in **Exhibit A** and **Exhibit A-1**.”

4. Subparagraphs (a) and (c) of Paragraph 2.05 entitled “**Personnel Assignments**”, of the Agreement, is hereby deleted in its entirety and replaced with:

“**2.05 Personnel Assignments**

(a) The key professional personnel identified in **Exhibit B** and **Exhibit B-1** will be assigned by the Design Consultant or its subconsultants to perform the services required under this Agreement, as appropriate.”

“(c) The Design Consultant agrees, at all times during the term of this Agreement, to maintain on its payroll or to have access to through outside subconsultants, professional design personnel and technicians in sufficient strength to meet the requirements of the City. Such personnel and technicians shall be of the classifications referenced in **Exhibit A** and **Exhibit A-1**. The hourly rates specified therein include all costs except those specifically referenced as reimbursables in the appropriate hourly rate schedule.”

5. Paragraph 2.07 of the Agreement, entitled “**Basic Services - Task Specific**”, is hereby deleted in its entirety and replaced with:

2.07 “Basic Services - Phase Specific. Complete all tasks as outlined in **Exhibit A** and **Exhibit A-1.**”

6. Paragraph 3.01 of the Agreement, entitled “**Fee for Basic Services**”, is hereby deleted in its entirety and replaced with:

“**3.01 Fee for Basic Services.** The City agrees to pay the Design Consultant, as full compensation for its basic services rendered hereunder, a fee not to exceed **THREE MILLION SEVEN HUNDRED SIXTY SEVEN THOUSAND SEVEN HUNDRED EIGHTY FIVE AND 81/100 DOLLARS (\$3,767,785.81)**, in accordance with the billing rates and project stated in **Exhibit A** and **Exhibit A-1**. The amounts budgeted for phases may be increased or decreased, and the amounts allocated for services and expenses adjusted, upon written approval of the Manager or his designee, and subject to the Maximum Contract Amount stated in this Section 3.”

7. Paragraph 3.02 of the Agreement, entitled “**Reimbursable Expenses**”, is hereby deleted in its entirety and replaced with:

“**3.02 Reimbursable Expenses.** Except for those reimbursable expenses specifically identified in Exhibit A and Exhibit A-1 or approved in writing by the City as reasonably related to or necessary for the Design Consultant’s services, all other expenses shall be included in the Design Consultant’s fee and will not be reimbursed hereunder. The maximum amount to be paid for all reimbursable expenses under this Agreement is **TWO HUNDRED FIFTY THOUSAND NINE HUNDRED SIXTY ONE AND 20/100 (\$250,961.20)** unless an additional amount is approved by the Manager or his designee in writing, subject to the Maximum Contract Amount stated herein. Unless this Agreement is amended in writing according to its terms to increase the Maximum Contract Amount, any increase in the maximum amount of reimbursable expenses will reduce the Design Consultant’s maximum fee amount accordingly.”

8. Subparagraph (a) of Paragraph 3.05 of the Agreement, entitled “**Maximum Contract Amount**”, is hereby deleted in its entirety and replaced with:

“3.05 Maximum Contract Amount.

(a) Notwithstanding any other provision of the Agreement, the City’s maximum payment obligation will not exceed **FOUR MILLION TWO HUNDRED EIGHTEEN THOUSAND SEVEN HUNDRED FORTY SEVEN AND 01/100 DOLLARS (\$4,218,747.01)** (the “Maximum Contract Amount”). The City is not obligated to execute an Agreement or any amendments for any further services, including any services performed by Consultant beyond those specifically described in **Exhibit A** and **Exhibit A-1**. Any Services performed beyond those set forth therein are performed at Consultant’s risk and without authorization under the Agreement.”

9. Paragraph 4.01 of the Agreement entitled, “**Term.**” is amended to read as follows:

“4.01 TERM: The term of the Agreement commenced on April 1, 2010 and will expire, unless sooner terminated, on December 31, 2015.”

10. Paragraph 5.08 of the Agreement, entitled “**Defense & Indemnification.**” is hereby deleted in its entirety and replaced with:

“5.08 Defense & Indemnification.

(a) To the fullest extent permitted by law, the Design Consultant hereby agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or related to the work performed under this Agreement that are due to the negligence or fault of the Design Consultant or the Design Consultant's agents, representatives, subcontractors, or suppliers ("Claims"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

(b) Design Consultant's duty to defend and indemnify City shall arise at the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Design Consultant is not named as a Defendant.

(c) Design Consultant will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation. Such payments on behalf of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.

(d) Insurance coverage requirements specified in this Agreement shall in no way lessen or limit the liability of the Design Consultant under the terms of this indemnification obligation. The Design Consultant shall obtain, at its own

expense, any additional insurance that it deems necessary for the City's protection.

(e) This defense and indemnification obligation shall survive the expiration or termination of this Agreement.”

11. Paragraph 5.10 of the Agreement, entitled “**Contract Documents: Order of Precedence.**” is hereby deleted in its entirety and replaced with:

“**5.10 Contract Documents; Order of Precedence.** This Agreement consists of Sections 1 through 5, which precede the signature page, and the following attachment, which is incorporated herein and made a part hereof by reference:

Exhibit A Scope of Work

Exhibit A-1 Scope of Work

Exhibit B Key Personnel

Exhibit B-1 Key Personnel

Exhibit C ACCORD Certificate of Insurance

In the event of an irreconcilable conflict between a provision of Sections 1 through 5 and the listed attachments, or between provisions of any attachments, such that it is impossible to give effect to both, the order of precedence to determine which provision shall control to resolve such conflict, is as follows, in descending order:”

Sections 1 through 5

Exhibit A

Exhibit A-1

Exhibit B

Exhibit B-1

Exhibit C”

12. A new Paragraph 5.29, entitled “**Electronic Signatures and Electronic Records,**” is hereby added to the Agreement to read as follows:

5.29. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS:

Design Consultant consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature hereunder, may be signed electronically by the City in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Agreement in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not

an original.”

13. As herein amended, the Agreement is affirmed and ratified in each and every particular.

[THE BALANCE OF THIS PAGE IS INTENTIONALLY LEFT BLANK.]

Contract Control Number:

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

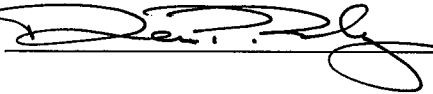
By _____

By _____



Contract Control Number: PWADM-CE93007-01


Contractor Name: FELSBURG HOLT & ULLEVIG

By:  _____

Name: DEAN P. BRADLEY
(please print)

Title: EXECUTIVE VP
(please print)

ATTEST: [if required]

By:  _____

Name: Robert W. Felsburg
(please print)

Title: president
(please print)





FELSBURG
HOLT &
ULLEVIG

engineering paths to transportation solutions

November 4, 2011

**City and County of Denver Project CE93007 Contract Amendment No. 1
South Broadway, Arizona to Exposition and I-25 Interchange**

Felsburg Holt & Ullevig Consultant Team Scope of Work for the following project segments:

- 1) Broadway Kentucky to South of Tennessee Final Design
- 2) Broadway Mississippi to Arizona Project Final Design
- 3) NB I-25 Loop On-Ramp & Water Quality Pond Final Design

Overview

This Scope of Work is for Professional Engineering Services necessary to complete final design, construction documents, opinions of probable construction costs and utility clearances / agreements for a portion of the overall South Broadway Arizona to Exposition and I-25 Interchange Project. Specifically the project includes the above listed project segments.

It should be noted final design of items such as roadway, lighting, utilities, drainage and water quality may be required for areas of the overall project outside the limits of the proposed project to ensure what is constructed in the initial project fits with construction of future project segments.

For the purposes of this scope of work and the associated proposed fee it is understood that design of the three segments will be conducted concurrently and that construction documents for the three segments will be assembled in one package. If it is decided at a future date that the segments need to be separated into individual packages, this will be done with funds from the Additional Services Budget.

Task 1 - Project Management

(Felsburg Holt & Ullevig)

This task is in support of the City & County of Denver's project manager, Michael Harmer, in management of this project.

Task Description

- Coordinate project tasks with the City and County of Denver's (CCD) Project Manager, Michael Harmer; other CCD personnel and departments as required.
- Prepare and submit monthly invoices and progress reports.
- Develop and maintain a project schedule in Microsoft Office Project; update monthly and include with monthly invoice.
- Manage and coordinate work efforts of the Consultant Team.

- Assist the City with those items identified as a local agency responsibility on CDOT Form 1243 (Local Agency Contract Administration Checklist) developed for this project.
- Coordinate with CCD as required on AutoCAD and Civil3D configuration.
- Assemble plans and specifications for 90% review, final review and bid. (Assume 3 separate packages for the project segments described in the overview.)
- Provide plan and specification quality assurance reviews to ensure consistency among all design disciplines and subconsultants.
- Prepare opinion of probable cost for 90% design and final review. (Assume 3 separate opinions of probable costs for the project segments described in the overview.)
- Resolve design and plan / specification questions raised at the 90% Design Review meeting and Final Construction Review submittal; document resolutions in a comment response matrix.
- Coordinate and prepare submittal of bid documents to CCD.
- Prepare record drawing sets following the bid document submittal.

Deliverables

- Monthly Invoices and Progress Reports
- Project Schedule (with monthly updates)
- Opinion of Probable Cost for 90% Design
- 90% Review Plans and Specifications
- 90% Design Review Comment Response Matrix
- Opinion of Probable Cost for Final Construction Review
- Final Construction Review Plans and Specifications
- Final Construction Review Comment Response Matrix
- Bid Document Submittal on Compact Disc
- Three Record Drawing Sets

Task 2 – Survey

(Nolte & Associates, Inc.)

This task includes providing miscellaneous survey and extracting information from the survey conducted for the 30% design to assist in final design for the project segments described in the overview.

Task Description

- As required, conduct limited field survey within the project limits to supplement existing project survey data generated during the 30% design effort; including but not limited to, topographical features; above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; utility vaults; land monuments; and range points.
- As required, extract additional information from 30% design survey to assist in final design.
- Provide required traffic control for survey activities. (Traffic Control by Nolte Sub/Vendor)
- If required, obtain required right-of-entry permits for survey and geotechnical investigation associated with Task 3.

- Coordinate with Yeh & Associates in locating subsurface investigation test holes in association with Task 3.
- Coordinate with Goodbee in locating utility potholes in association with Task 7.
- As required, update topographical mapping of project limits with new survey information and additional information extracted from the 30% survey.
- As required, update existing digital terrain model with new survey information and additional information extracted from the 30% survey.
- As required, assist Goodbee with updating the existing utility mapping with new survey information and additional information extracted from the 30% survey.
- Conduct/Attend coordination meetings with CCD and CDOT R6 Survey. (Assume 1 meeting)

Deliverables

- Survey Coordination Meeting Minutes
- Geotech Test Hole location map, with coordinates and existing grade elevations.
- Pothole location map, with coordinates and existing grade elevations.
- Updated Topographical Base Map
- Updated Existing Digital Terrain Model
- Updated Existing one-foot. interval Topographic Map

Task 2A – Right of Way

(Nolte & Associates, Inc.)

This task includes developing final ROW plans in accordance with CDOT policies and procedures for properties required within the three project segments described in the overview. It is assumed that one ROW set of plans will be developed for the three project segments.

Task Description

- Prepare legal exhibits and descriptions for temporary construction and permanent easements.
- Prepare final ROW plans.
- Conduct/Attend a ROWPR (Assume 1)
- Conduct/Attend coordination meetings with CCD and CDOT R6 Survey. (Assume 3 meetings)

Deliverables

- Meeting Minutes for ROW related meetings.
- Legal Exhibits and Descriptions
- Final ROW Plans (separate plans for each project segment described above)

Task 3 - Geotechnical Investigations and Pavement Design

(Yeh & Associates)

This task includes the subsurface investigation for the purposes of final structural foundation recommendations, roadway and structural fill recommendations and pavement design for Broadway from Arizona to Kentucky and the NB I-25 NB on-ramp from Ohio. The task also includes providing boring log plan sheets and materials' related project specifications.

Task Description

- Perform subsurface investigation and perform applicable laboratory tests in support of providing final pavement design, roadway and structural fill, and structural foundation recommendations. (Structures include Ramp 2 Walls 1 & 2)
- Obtain Street Occupancy Permit for subsurface investigation.
- Provide required traffic control for subsurface investigation activities. (Traffic Control by Yeh Sub/Vendor)
- Coordinate with Nolte & Associates for survey of the test hole locations.
- Prepare a Final Geotech and Pavement Design Report summarizing the above tests, investigations, analyses, calculations and recommendations for the project design. Report will include information on both the new test holes and test holes from 30% design subsurface investigation.
- Prepare geotechnical test hole reference file; reference file will include both new test holes and test holes from 30% design subsurface investigation. Reference file will show both test hole locations and labeling of the test holes. Test holes will be identified by the same call-out as shown in the Final Geotech Report.
- Prepare geotechnical test hole location map plan sheet(s); location map will include both new test holes and test holes from 30% design subsurface investigation. Test holes will be identified by the same call-out as shown in the Final Geotech Report.
- Prepare boring log information plan sheets; boring log information sheets will include boring logs from both the new test holes and the test holes drilled in the 30% design subsurface investigation.
- Assist in writing concrete pavement, hot mix asphalt, structural fill and roadway fill project special provisions.
- Conduct/Attend coordination meetings with CCD. (Assume 2 meetings)

Deliverables

- Geotechnical Coordination Meeting Minutes
- Final Geotechnical Subsurface Investigation & Design Report for the project segments listed above (Pavement, Roadway Fill, Structure Fill and Foundation Recommendations)
- Test Hole Location Reference File (including new and 30% design test holes)
- Geotechnical Test Hole Location Map plan sheet(s) (including new and 30% design test holes)
- Boring Log Information Plan Sheets (including new and 30% design test holes)
- Information for Concrete Pavement, HMA, Structural Fill and Roadway Fill Construction Specifications

Task 4 – Streetscape and Landscape Design

(Design Workshop, Hermsen)

This task includes final design and construction documents for streetscape and landscape design features and irrigation for the project segments described in the overview.

Task Description

- Advance 30% streetscape and landscape design for the project segments described above to 100%.
- Develop and design elements for mitigation of the historic trolley tracks. Assume development of project wide historic mitigation conceptual plan, and final design of plan within the project segments described in the overview.
- Support FHU Task 9 Structural Engineering with aesthetic treatments and details for ramp walls in the Broadway to NB I-25 loop on-ramp area.
- Support FHU Task 11 Water Quality Analysis & Design with regard to landscape design.
- Support SSG Task 13 Electrical and Lighting Analysis & Design to coordinate light locations with streetscape module.
- Design an irrigation system(s) to serve the project segments described in the overview.
- Develop 90% review, final construction review and bid plans and specifications for landscape, streetscape, irrigation and historic mitigation.
- Develop streetscape, landscape and irrigation quantity tabulations for 90% review, final construction review and bid. Provide unit costs for pay items in the tabulations. (Assume 3 separate tabulations for the project segments described in the overview.)
- Conduct/Attend coordination meetings with CCD and CDOT on streetscape, landscape irrigation, and historic mitigation design. (Assume 2 meetings)

Deliverables

- Streetscape, Landscape and Irrigation Coordination Meeting Minutes
- Streetscape, Landscape and Irrigation Quantity Calculations
- Streetscape, Landscape and Irrigation 90%, Final Construction Review and Bid Plans, Tabulations, Specifications and Cost Estimates
- Landscape Design / Field Notebook (Design Calculations, Design Decisions, Product Information and Quantity Calculations)

Task 5 – Roadway Design

(Felsburg Holt & Ullevig)

This task includes final design of roadway and roadside elements for the three project segments described in the overview.

Task Description

- Advance 30% roadway and multi-modal design within project limits to 100%.
- Develop intersection geometrics and grading.
- Run vehicle turning templates at turning movements within the project limits.
- Develop concrete jointing plans.
- Design temporary tie-ins back into existing Broadway at the north and south end of the project limits.
- Develop roadway removal plans.
- Document design variances including justification for each variance.

- Assist the City with obtaining concurrence from affected agencies for design variances.
- Generate a 3 dimensional digital terrain model of the design. (Assume separate models for three project segments described above, plus overall model.)
- Develop 90%, final construction review and bid plans and specifications for roadway design.
- Develop roadway quantity tabulations for 90%, final construction review and bid plans.
- Conduct/Attend coordination meetings with CCD on roadway design. (Assume 2 meeting)

Deliverables

- Roadway Design Coordination Meeting Minutes
- Roadway Design Quantity Calculations (Assume 3 separate packages for the project segments described in the overview.)
- Roadway Design 90%, Final Review and Bid Plans, Profiles, Tabulations and Specifications
- Roadway Design Notebook (Design Calculations, Design Variances, Design Decisions)
- Roadway Field Book (Alignment Information, Intersection Design Information and Quantity Calculations)

Task 6 - Utility Coordination

(Goodbee & Associates, Inc.)

This task is in support of the City & County of Denver's efforts to coordinate with utility companies and obtain utility agreements with the affected utility companies within the project segments described in the overview.

Task Description

- Coordinate with Nolte on applicable updates to existing utility reference file.
- Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. (Assume 15 meetings)
- Obtain easements, license agreements, and relocation agreement templates from Utility Companies as applicable and provide to CCD and CDOT's R6 Utility Engineer.
- Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections.
- Perform support services for CCD required to obtain Utility Agreements and prepare work orders.
- Prepare, coordinate and obtain utility clearance letters with the affected utility agencies.
- Prepare draft utility clearance requests to be processed by CCD and CDOT.
- Conduct/Attend utility coordination meetings with CCD and CDOT, separate from one-on-one utility meetings mentioned above. (Assume 2 meetings)
- Obtain estimates of probable cost for utility relocations that are a cost to the project.

Deliverables

- Utility Coordination Meeting Minutes
- Updated Existing Utility Map
- Documents as Required to Obtain Utility Agreements and Clearances

Task 7 - Utility Design

(Goodbee & Associates, Inc. - Dry Utilities, Nolte & Associates, Inc. - Wet Utilities)

This task includes potholing, developing existing utility plans and identifying utilities that will be affected by the final design within the project limits, and relocation design of affected wet utilities within the project limits. It is assumed dry utility (gas, non-CCD fiber optics, electric etc.) relocations will be by the utility owner. Dry utility relocations, as designed by the utility companies, will be shown in the plans.

Task Description

- Utility potholing, assume 25 potholes (Goodbee)
- Create pothole location map and log plan sheet(s); pothole location map and logs will include both new pot holes and pot holes from the 30% design pothole effort. (Goodbee)
- Prepare existing utility plan sheets showing existing utility facilities, exiting utility easements and conflicts with proposed construction. (Goodbee)
- Prepare a summary table of all utilities within the project limits, noting utility adjustments, relocations and / or replacement. (Goodbee)
- Create an existing manhole log plan sheet(s). (Goodbee)
- Design wet utility relocations (water line and sanitary sewer). (Nolte)
- Develop 90%, final construction review and bid plans and specifications for utility relocations. Each affected utility will have its own plan section. (Nolte & Goodbee)
- Develop wet utility relocation quantity tabulations for 90%, final construction review and bid. (Nolte & Goodbee)
- Develop tabulation of utility removals and adjustments. (Goodbee)
- Conduct/Attend coordination meetings with utility owners on wet and dry utility design. (Assume 2 meetings) (Nolte and Goodbee)
- Check utility clearances and existing utility locations as they relate to proposed grading. (Nolte and Goodbee)
- Develop memo of understanding of costs and work to be completed by XCEL and the Contractor as it relates to project lighting. (Goodbee)

Deliverables

- Utility Design Coordination Meeting Minutes (Goodbee and Nolte)
- Existing Utility Plan Sheets Including Table of Affected Utilities (Goodbee)
- Pothole Location Map + Log Plan Sheets (Goodbee)
- Manhole Log Plan Sheets Goodbee)
- Utility Design Quantity Calculations (Goodbee and Nolte)
- Utility Design Notebook (Design Calculations, Design Variances, Design Decisions) (Goodbee and Nolte)

- Utility Specification (Includes but is not limited to utility owner contact information, contractor responsibilities and utility owner responsibilities) (CDOT Format) (Goodbee with help from Nolte)
- Utility Relocation 90%, Final Construction Review and Bid Plans, Profiles, Tabulations and Specifications. Separate plan sections and tabulations will be completed for each wet utility. Dry utility relocations will be shown in plan-view in the overall utility plan sheets. (Goodbee and Nolte)
- Memo of Understanding of costs and work to be completed by XCEL and the Contractor as it relates to project lighting. (Goodbee)

Task 8 - Traffic Engineering Design

(Felsburg Holt & Ullevig)

This task includes final design for traffic elements including CCD and CDOT ITS, traffic signals, signing and striping for the project segments described in the overview.

Task Description

- Advance 30% traffic design within project limits to 100%.
- Coordinate with SSG MEP as required for electrical feeds for traffic signals.
- Develop 90%, final construction review and bid plans and specifications for traffic design elements and removals.
- Develop traffic design and removal quantity tabulations for 90%, final construction review and bid.
- Conduct/Attend coordination meetings with CCD and CDOT on traffic design. (Assume 2 meetings)

Deliverables

- Traffic Design Coordination Meeting Minutes
- Traffic Design Quantity Calculations
- Traffic Design and Removal 90%, Final Construction Review and Bid Plans, Tabulations and Specifications

Task 9 - Structural Engineering

(Felsburg Holt & Ullevig)

This task includes design of traffic signal foundations and retaining walls for the project segments described in the overview.

Task Description

- Design traffic signal foundations. (Assumes two signal foundations.)
- Design two retaining walls associated with the NB I-25 on-ramp from Ohio.
- Design minor retaining walls as required for the project.
- Conduct independent design check for retaining walls.
- Develop 90%, final construction review and bid plans and specifications for signal foundations and retaining walls.

- Develop structure quantity tabulations for 90%, final construction review and bid..

Deliverables

- Structure Design and Design Check Notes
- Structure Design Quantity Calculations
- Structure Field Book (Structure Geometry and Quantity Calculations)
- Structure Design 90%, Final Construction Review and Bid Plans, Tabulations and Specifications

Task 10 - Hydrology and Hydraulic Analysis & Design

(Nolte & Associates, Inc., Minor assistance from FHU)

This task includes final design of a stormwater conveyance system for the project segments described in the overview.

Task Description

- Advance 30% drainage design within project limits to 100%; design will be in conformance with CCD's Master Drainage Plan. (Nolte)
- Develop 90%, final construction review and bid plans and specifications for drainage design elements and removals. (Nolte)
- Develop drainage quantity tabulations for 90%, final construction review and bid design and removals. (Nolte)
- Prepare final drainage report for drainage facilities within the project limits. (Nolte)
- Conduct/Attend coordination meetings with CCD and CDOT on drainage analysis and design. (Assume 1 meeting) (Nolte)

Deliverables

- Drainage Design Coordination Meeting Minutes (Nolte)
- Final Drainage Report (Nolte)
- Drainage Quantity Calculations (Nolte)

- Drainage 90% review, Final Construction Review and Bid Plans, Details, Profiles, Tabulations and Specifications (Nolte)

Task 11 - Water Quality and Erosion Control Analysis & Design

(Felsburg Holt & Ullevig)

This task includes design of a water quality pond within the area enclosed by the NB I-25 on-ramp from Ohio and developing storm water management and erosion control plans for construction and final project conditions. Both project specific and regional water quality facilities will be considered in final design.

Task Description

- Advance 30% water quality design within project limits to 100%.
- Develop 90% review, final construction review and bid plans and specifications for construction and permanent erosion control and water quality BMP's.

- Develop water quality and erosion control quantity tabulations for 90%, final construction review and bid.
- Develop water quality design information for final drainage report in conjunction with Task 10.
- Provide assistance to CCD in obtaining miscellaneous permits from CCD departments and outside entities with regard to construction and permanent water quality features / BMP's.
- Prepare application for a construction activities stormwater discharge permit.
- Prepare the CASDP Permit and supporting plans.
- Conduct/Attend coordination meetings with CCD and CDOT on water quality facility design. (Assume 1 meeting)

Deliverables

- Water Quality Design Coordination Meeting Minutes
- Water Quality and Erosion Control Quantity Calculations
- Water Quality and Erosion Control 90% Review, Final Construction Review and Bid Plans, Details, Tabulations and Specifications

Task 12 - Environmental Services

(Felsburg Holt & Ullevig, Kumar)

This task is in support of the City & County of Denver's continuing compliance with the National Environmental Policy Act (NEPA) and FHWA and CDOT guidance for phases of the Preferred Alternative identified in the South Broadway Finding of No Significant Impact (FONSI).

Task Description

- Identify and document changes or the lack thereof to the human, socio economic, or natural environment since completion of the South Broadway FONSI.
- Evaluate refinements to the engineering design from the conceptual-level of design presented in the South Broadway FONSI.
- Assist CCD with filling out CDOT's Reevaluation Form (Form 1399), required by 23 CFR 771.129 for each of the project segments described in the overview.
- Develop project special provision outlining materials management requirements for the Contractor.
- Determine appropriate environmental pay items to include in construction documents.
- Develop environmental plans, tabulations and specifications for 90% review, final construction review and bid. Plans will include details for removal of monitoring wells.
- Implement the appropriate environmental mitigation identified in the South Broadway FONSI and documentation for environmental resources affected by design/construction.
- Conduct/Attend coordination meetings with CCD, CDPHE, DEH, FHWA, CDOT and SHPO. (Assume 2 coordination meetings)
- Continue to coordinate findings and mitigation measures with Gates/Lionstone and the completion of the VCUPS.
- Collect soil samples and test them to determine if elevated levels of arsenic exist on the east side of Broadway between Kentucky and Mississippi, as determined by Denver Health.

Deliverables

- Environmental Coordination Meeting Minutes
- Environmental Quantity Calculations.
- Environmental 90%, Final Construction Review and Bid Tabulations, Plans and Specifications
- CDOT NEPA Reevaluation Form(s) and CDOT form 128 as required.

Task 13 – Electrical and Lighting Analysis & Design

(SSG MEP)

This task includes final design of pedestrian and street lighting within the project limits, as well as all electrical facilities required for the project segments described in the overview.

Task Description

- Advance 30% electrical and lighting design within project limits to 100%.
- Coordinate electrical and lighting design with traffic signal design associated with Task 8.
- Coordinate electrical utility design in association with Task 7.
- Develop 90%, final construction review and bid plans and specifications for electrical facilities and lighting, plus associated removals of existing electrical and lighting equipment.
- Develop electrical and lighting tabulations for 90%, final construction review and bid design and removals.
- Conduct/Attend electrical and lighting design coordination meetings with CCD, CDOT and appropriate utility agency(ies). (Assume 2 meetings)

Deliverables

- Electrical and Lighting Design Coordination Meeting Minutes
- Electrical and Lighting Design Quantity Calculations
- Electrical and Lighting Design 90%, Final Construction Review and Bid Plans, Tabulations, Cost Estimates and Specifications
- Determination of Power Source Locations

Task 14 - Construction Phasing & Detour Design

(Felsburg Holt & Ullevig)

This task includes developing construction phasing plans for construction of the project segments described in the overview.

Task Description

- Develop 90%, final construction review and bid plans and specifications for construction phasing and detours. Detours design will include plans, typical sections, horizontal alignment, profiles and cross-sections. Phasing will take into consider and be coordinated with concrete pavement jointing design.
- Develop construction phasing and detour tabulations for 90%, final construction review and bid.

Deliverables

- Phasing and Detour Design Quantity Calculations
- Phasing and Detour Design 90%, Final Construction Review and Bid Plans, Tabulations and Specifications

Task 15 - Construction Traffic Control

(Felsburg Holt & Ullevig)

This task includes developing a schedule of traffic control items.

Task Description

- Develop a schedule of construction traffic control items based on traffic control required for detours and construction phasing.

Deliverables

- Schedule of construction traffic control items.
- Roll plots of traffic control items draped on detours and construction phasing.

Task 16 - Public Outreach and Information

(Felsburg Holt & Ullevig, Regnier & Associates, Inc., Two-Hundred, Design Workshop)

This task is in support of the City & County of Denver's continuing public outreach efforts for this project including during the final design and construction of the proposed project.

Task Description

- Maintain a primary public relations contact and coordination person for duration of the project. (Regnier)
- Maintain project stakeholder contact database. (Regnier)
- Create email blasts to serve as project updates, aligned with website updates. Distribute to those in the contact database. (FHU develop content, Regnier email)
- Assist CCD with project web page updates. (Assume 6 updates) (FHU and Regnier)
- Refine Project Simulations, illustrative plans and perspectives for one public meeting and website updates (Two Hundred)
- Project progress meetings with Council & Public Works Management. (Assume 3 meetings each) (FHU)
- Presentation to the City Council's Land Use, Transportation, and Infrastructure committee (Assume 1 presentation) (FHU)
- Exhibits, graphics and project presentations for web, project updates, council committee meetings, public outreach, project funding/phasing (FHU & DW)
- Prepare for and attend one Public Meeting. (FHU, DW & Regnier)
- Coordination meetings with adjacent property owners as related to ROW acquisition. (FHU)
- Coordination/ concept review meetings with adjacent developers relating to integration of future development. (FHU)

Deliverables

- Public Outreach Related Meeting Minutes/Summaries for web
- Website Page/Site Update Text and Graphics
- Meeting Graphics, Handouts, and Website file attachments

Task 17 - Multi Agency Involvement & Coordination

(Felsburg Holt & Ullevig, Nolte, Design Workshop, SSG MEP)

This task is in support of the City & County of Denver’s coordination efforts with outside agencies for this project.

Task Description

- Coordinate/consensus-build with CCD Agencies, Denver Water Board, CDOT, FHWA, CDPHE, RTD, DRCOG and others.
- Coordinate with project stakeholders including: Metro and Maintenance Districts within the project corridor.
- Conduct/Attend coordination meetings with coordinating agencies. (Assume 4 meetings total, one per subconsultant)

Deliverables

- Agency Coordination Meeting Minutes/Summaries
- Meeting Graphics, Handouts
- Meeting Documentation

Task 18 - Sustainability

(Design Workshop)

This task is in support of the City and County of Denver’s efforts to incorporate sustainability into the design of this project.

Task Description

- Facilitate sustainability updates by the Team as a regular part of coordination meeting agendas to ensure accountability to goals and measureable outcomes.
- Update sustainability matrix at 75% design
- Assist Mike with determining the appropriate categories to include on the Sustainability Closeout Form that is included in the Construction Documents.

Deliverables

- Updated Sustainability Matrix
- List of items to include on the Sustainability Closeout Form

Task 19 – Design Progress / Coordination Meetings

(Consultant Team)

This task covers project management coordination meetings, consultant team coordination meetings and miscellaneous meetings with CCD staff and outside entities.

Task Description

- Attend project management meetings. (Assume 40) (FHU only)
- Attend consultant team coordination meetings. (Assume 14 meetings) (All subconsultants)
- Attend miscellaneous meetings. (Assume 20) (5 per subconsultant except 8 for Design Workshop)
- Attend 90% review meeting. (Assume 1) (All subconsultants)
- Attend 90% comment resolution meeting. (Assume 1) (All subconsultants)
- Attend final construction review meeting. (Assume 1) (All subconsultants)
- Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. Minutes will be completed within 7 days of the meetings.
- Prepare agendas, exhibits, handouts, conduct and write meeting minutes for 90% Design Review Meeting. Minutes will be completed within 7 days of the meeting.

Deliverables

- Meeting agendas
- Meeting exhibits
- Meeting handouts
- Meeting minutes

Task 23 – Additional Services

(Consultant Team)

This task covers unanticipated items or additional services as approved by CCD's Project Manager.

Reimbursables

The following items will be reimbursable for this project:

- Mileage
- Parking (while attending meetings at CCD or other locations, does not include parking at consultant's facilities when returning to work from a project related meeting)
- RTD transportation fares to attend meetings.
- Bond Plots
- Mylar Plots
- Copies
- Foam Core Exhibit Mounting Boards
- CDs/DVDs
- Couriers
- Postage for Major Mailings
- Projector Use (company owned, per meeting charge)
- Meeting Facility Rentals
- Rental Equipment for Public Meetings (from outside source)
- Catering for Public Meetings

- Field Supplies for Surveying.

Miscellaneous Contract Requirements

- All CAD files/designs shall be produced in AutoCAD Civil 3D (2009).
- Development of topographic data shall follow CCD CAD Standards.
- Electronic information shall be organized using CCD's file directory structure.
- Electronic Files shall be transmitted to CCD upon completion of the project organized in accordance with the CCD file directory structure.
- All documents shall be provided in a pdf format in addition to the file created by the original program.
- Plan packages shall be submitted in accordance with CCD's CPEP Plan requirements and CDOT's final PS&E check list.

Exclusions

- Services do not include assisting CCD with advertisement of the project(s).
- Services do not include engineering assistance during construction.
- Services do not include construction management during construction.
- Services do not include ROW acquisition assistance.
- Services do not include meetings related to exploring possibilities for special district formation.

Assumptions

- Design for the three project segments will be done concurrently.
- All three segments will be combined into one set of construction bid documents. If the segments need to be broken into separate construction packages that will be done with budget set aside for Additional Services.
- If CCD determines that design should be adjusted to incorporate addition sustainability items after the sustainability matrix is updated at 75% design, changes to design will be done with budget set aside for Additional Services.
- If CCD requires assistance in a presentation to Greenprint Denver on the updated sustainability matrix, this will be completed with budget set aside for Additional Services.



CCD Project CE93007 Amendment 1

Fee Worksheet Summary Original Contract+ Additional Work + Final Design for Segments 1-3

Date:01/12/12

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

	ORIGINAL CONTRACT				AMENDMENT 1 + ADDITIONAL WORK + FEE TO FINISH ORIGINAL WORK					TOTAL ORIGINAL + AMENDMENT 1				
	Fee for Basic Services (Labor)	*Reimbursable Expenses	Additional Services	Total	Amendment 1 Fee for Basic Services (Labor)	Amendment 1 *Reimbursable Expenses	Additional Work Fee for Basic Services (Labor)	Additional Work *Reimbursable Expenses	Total	Fee for Basic Services (Labor)	% of Total Fee for Basic Services (Labor)	*Reimbursable Expenses	Additional Services	Total
Felsburg Holt & Ullevig	\$ 878,075.00	\$ 16,408.00		\$ 894,483.00	\$ 596,214.18	\$ 10,925.76	\$ 53,745.00	\$ (6,456.78)	\$ 654,428.16	\$ 1,528,034.18	40.56%	\$ 20,876.98		\$ 1,548,911.16
AECOM	\$ 35,550.00	\$ 575.00		\$ 36,125.00		\$ -	\$ (11,491.30)	\$ -	\$ (11,491.30)	\$ 24,058.70	0.64%	\$ 575.00	\$ -	\$ 24,633.70
BBC	\$ -			\$ -		\$ -	\$ 12,000.00	\$ -	\$ 12,000.00	\$ 12,000.00	0.32%	\$ -		\$ 12,000.00
Design Workshop	\$ 261,740.00	\$ 12,857.00		\$ 274,597.00	\$ 171,970.00	\$ 12,043.36	\$ (1,248.98)		\$ 182,764.38	\$ 432,461.02	11.48%	\$ 24,900.36	\$ -	\$ 457,361.38
Goodbee & Associates, Inc. (MWBE)	\$ 49,180.00	\$ 19,225.00		\$ 68,405.00	\$ 177,636.74	\$ 31,295.00	\$ 22,605.00	\$ 35,136.00	\$ 266,672.74	\$ 249,421.74	6.62%	\$ 85,656.00	\$ -	\$ 335,077.74
HC Peck	\$ 324,685.56	\$ 22,850.00		\$ 347,535.56	\$ -	\$ -	\$ 106,608.66	\$ -	\$ 106,608.66	\$ 431,294.22	11.45%	\$ 22,850.00	\$ -	\$ 454,144.22
Hermesen Consultants (MWBE)	\$ 7,200.00			\$ 7,200.00	\$ 5,760.00	\$ -	\$ (840.50)	\$ -	\$ 4,919.50	\$ 12,119.50	0.32%	\$ -	\$ -	\$ 12,119.50
Kumar & Associates (MWBE)	\$ 66,630.00	\$ 30,500.00		\$ 97,130.00		\$ -	\$ (20,000.00)	\$ -	\$ (20,000.00)	\$ 46,630.00	1.24%	\$ 30,500.00	\$ -	\$ 77,130.00
Nolte	\$ 511,572.00	\$ 18,200.00		\$ 529,772.00	\$ 243,023.50	\$ 8,614.60	\$ 2,856.50	\$ 2,752.50	\$ 257,247.10	\$ 757,452.00	20.10%	\$ 29,567.10	\$ -	\$ 787,019.10
Regnier & Associates, Inc.(MWBE)	\$ 44,520.00	\$ 6,807.00		\$ 51,327.00	\$ 9,990.00	\$ 150.00	\$ (5,342.89)	\$ -	\$ 4,797.11	\$ 49,167.11	1.30%	\$ 6,957.00	\$ -	\$ 56,124.11
SSG MEP (MWBE)	\$ 67,739.22	\$ 610.00		\$ 68,349.22	\$ 67,002.33	\$ 1,054.26	\$ (15,357.61)	\$ -	\$ 52,698.98	\$ 119,383.94	3.17%	\$ 1,664.26	\$ -	\$ 121,048.20
Two Hundred (MWBE)	\$ 30,800.00	\$ -		\$ 30,800.00	\$ 5,700.00	\$ -	\$ (13.40)	\$ -	\$ 5,686.60	\$ 36,486.60	0.97%	\$ -	\$ -	\$ 36,486.60
Yeh & Associates (MWBE)	\$ 30,090.00	\$ 14,180.00		\$ 44,270.00	\$ 39,936.80	\$ 13,234.50	\$ (750.00)	\$ -	\$ 52,421.30	\$ 69,276.80	1.84%	\$ 27,414.50	\$ -	\$ 96,691.30
Additional Services			\$ 200,000.00	\$ 200,000.00					\$ -				\$ 200,000.00	\$ 200,000.00
Totals	\$ 2,307,781.78	\$ 142,212.00	\$ 200,000.00	\$ 2,649,993.78	\$ 1,317,233.55	\$ 77,317.48	\$ 142,770.48	\$ 31,431.72	\$ 1,568,753.23	\$ 3,767,785.81	100%	\$ 250,961.20	\$ 200,000.00	\$ 4,218,747.01
	MWBE Total	\$ 296,159.22			MWBE Total	\$ 286,326.47				MWBE Total	\$ 582,485.69			
	% MWBE	12.83%			% MWBE	19.61%				% MWBE	15.46%			

Note: MWBE % based on labor only.

* Includes Vendors



CCD Project CE93007 Amendment 1
Fee Worksheet Summary Projects 1-3

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

	Fee for Basic Services (Labor)	% of Total Fee for Basic Services (Labor)	*Reimbursable Expenses	Additional Services	Total
Felsburg Holt & Ullevig	\$ 596,214.18	45.26%	\$ 10,925.76		\$ 607,139.94
AECOM	\$ -	0.00%	\$ -	\$ -	\$ -
Design Workshop	\$ 171,970.00	13.06%	\$ 12,043.36	\$ -	\$ 184,013.36
Goodbee & Associates, Inc. (MWBE)	\$ 177,636.74	13.49%	\$ 31,295.00	\$ -	\$ 208,931.74
HC Peck		0.00%		\$ -	\$ -
Hermesen Consultants (MWBE)	\$ 5,760.00	0.44%	\$ -	\$ -	\$ 5,760.00
Kumar & Associates (MWBE)		0.00%		\$ -	\$ -
Nolte	\$ 243,023.50	18.45%	\$ 8,614.60	\$ -	\$ 251,638.10
Regnier & Associates, Inc.(MWBE)	\$ 9,990.00	0.76%	\$ 150.00	\$ -	\$ 10,140.00
SSG MEP (MWBE)	\$ 67,002.33	5.09%	\$ 1,054.26	\$ -	\$ 68,056.59
Two Hundred (MWBE)	\$ 5,700.00	0.43%	\$ -	\$ -	\$ 5,700.00
Yeh & Associates (MWBE)	\$ 39,936.80	3.03%	\$ 13,234.50	\$ -	\$ 53,171.30
Additional Services				\$ -	\$ -
Totals	\$ 1,317,233.55	100%	\$ 77,317.48	\$ -	\$ 1,394,551.03

MWBE Total \$ 306,025.87
% MWBE 23.23%

Note: MWBE % based on labor only.

* Includes Vendors

Project 1 – TIP

Broadway Mississippi to Kentucky



CCD Project CE93007 Amendment 1

Fee Worksheet Summary Project 1 - TIP Broadway Mississippi to Kentucky

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

	Fee for Basic Services (Labor)	% of Total Fee for Basic Services (Labor)	*Reimbursable Expenses	Additional Services	Total
Felsburg Holt & Ullevig	\$ 204,795.10	41.25%	\$ 3,641.92		\$ 208,437.02
Design Workshop	\$ 57,323.33	11.54%	\$ 4,014.45	\$ -	\$ 61,337.79
Goodbee & Associates, Inc. (MWBE)	\$ 63,549.56	12.80%	\$ 8,431.67	\$ -	\$ 71,981.23
Hermesen Consultants (MWBE)	\$ 5,760.00	1.16%		\$ -	\$ 5,760.00
Nolte	\$ 107,419.50	21.63%	\$ 3,407.30	\$ -	\$ 110,826.80
Regnier & Associates, Inc.(MWBE)	\$ 3,330.00	0.67%	\$ 50.00	\$ -	\$ 3,380.00
SSG MEP (MWBE)	\$ 33,121.45	6.67%	\$ 351.42	\$ -	\$ 33,472.87
Two Hundred (MWBE)	\$ 5,700.00	1.15%	\$ -	\$ -	\$ 5,700.00
Yeh & Associates (MWBE)	\$ 15,525.90	3.13%	\$ 2,946.00	\$ -	\$ 18,471.90
Additional Services	\$ -	0.00%	\$ -	\$ -	\$ -
Totals	\$ 496,524.84	100%	\$ 22,842.76	\$ -	\$ 519,367.60

MWBE Total \$ 126,986.91
% MWBE 25.58%

Note: MWBE % based on labor only.

* Includes Vendors



engineering jobs in mississippi valley

CCD Project CE93007 Amendment 1 - Project 1 - TIP Broadway Mississippi to Kentucky

Summary by Task/Sub

Tasks	Totals	% Total	Additional Services	FHU	Design Workshop	Goodbee (MMBE)	Hermesen (MMVEE)	Nolte	Regnier (MMBE)	SSG MEP (MMBE)	Two Hundred (MMWBE)	Yeh (MMWBE)
1. Project Management	\$ 46,933.72	9.3%		\$ 46,933.72								
2. Survey	\$ 17,545.50	3.5%		\$ -				\$ 17,545.50				
2A. Right-of-Way	\$ 9,762.00	1.5%		\$ -				\$ 9,762.00				
3. Geotechnical Investigation & Pavement Design	\$ 15,525.90	3.1%		\$ -								\$ 15,525.90
4. Streetscape and Landscape Design	\$ 46,913.33	9.3%		\$ -	\$ 46,913.33							
5. Roadway Design	\$ 48,560.12	9.6%		\$ 48,560.12								
6. Utility Coordination	\$ 17,667.13	3.5%		\$ -		\$ 17,667.13						
7. Utility Design	\$ 67,746.67	13.4%		\$ -		\$ 40,350.67		\$ 27,396.00				
8. Traffic Engineering Design	\$ 16,093.88	3.2%		\$ 16,093.88								
9. Structural Engineering	\$ 5,337.44	1.1%		\$ 5,337.44								
10. Hydrology and Hydraulic Analysis & Design	\$ 28,732.00	5.7%		\$ -				\$ 28,732.00				
11. Water Quality Analysis & Design	\$ 14,621.84	2.9%		\$ 14,621.84			\$ 5,760.00					
12. Environmental Services	\$ 20,269.66	4.0%		\$ -					\$ 21,287.41			
13. Electrical and Lighting Analysis & Design	\$ 21,287.41	4.2%		\$ -								
14. Construction Phasing & Detour Design	\$ 8,180.00	1.6%		\$ 8,180.00								
15. Construction Traffic Control	\$ 4,171.80	0.8%		\$ 4,171.80								
16. Public Outreach and Information	\$ 31,900.37	6.3%		\$ 20,762.40	\$ 1,683.33				\$ 3,330.00	\$ 424.64	\$ 5,700.00	
17. Multi Agency Involvement & Coordination	\$ 7,810.72	1.5%		\$ 4,846.76	\$ 515.00			\$ 1,812.00		\$ 636.96		
18. Sustainability	\$ 1,670.00	0.3%		\$ -	\$ 1,670.00							
19. Design Progress / Coordination Meetings	\$ 51,014.01	10.1%		\$ 20,777.48	\$ 6,541.67	\$ 5,531.76		\$ 7,390.67		\$ 10,772.44		\$ 311.00
Vendors	\$ 10,074.43	2.0%		\$ 3,641.92	\$ 1,681.12	\$ 2,431.67		\$ 1,607.30	\$ 50.00	\$ 351.42		\$ 2,635.00
Reimbursables	\$ 12,768.33	2.5%		\$ -	\$ 2,333.33	\$ 6,000.00		\$ 1,800.00				
Additional Services	\$ -	0.0%	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 3,380.00	\$ 33,472.87	\$ 5,700.00	\$ 18,471.90
Totals	\$ 504,586.27	100.0%	\$ -	\$ 208,437.02	\$ 61,337.79	\$ 71,981.23	\$ 5,760.00	\$ 96,045.47	\$ 3,380.00	\$ 33,472.87	\$ 5,700.00	\$ 18,471.90

Tasks	Totals	%
SURVEY	\$ 17,545.50	3%
ROW	\$ 9,762.00	2%
DESIGN	\$ 264,818.59	52%
UTILITY CLEARANCE / COORDINATION	\$ 12,351.80	2%
PHASING AND CTC	\$ 17,667.13	4%
ENVIRONMENTAL	\$ 20,269.66	4%
MANAGEMENT + COORDINATION	\$ 54,744.44	11%
SUSTAINABILITY	\$ 1,670.00	0%
PUBLIC OUTREACH	\$ 31,900.37	6%
COORDINATION MEETINGS	\$ 51,014.01	10%
VENDORS	\$ 12,768.33	3%
ADDITIONAL SERVICES	\$ -	0%
REIMBURSABLES	\$ 10,074.43	2%
Totals	\$ 504,586.27	



Address: 6309 S. Syracuse Way, Suite 600, Centennial, CO 80111
 Phone: 303-221-1440

CCD Project CE03007 Amendment 1 - Project 1 - TIP Broadway Mississippi to Kentucky

Fee Worksheet - Labor

By: Jeanne Sharps, P.E.

Tasks	Principal I		Associate		Senior Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Senior Designer & Senior Bridge Designer	
	Rate \$150.00	Hours	Rate \$148.26	Hours	Rate \$138.04	Hours	Rate \$127.81	Hours	Rate \$117.59	Hours	Rate \$102.25	Hours	Rate \$92.03	Hours	Rate \$107.38	Hours
1. Project Management																
- General Coordination with CCD PM	\$ -	80	\$ -	11,043.20	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Monthly Progress Reports & Invoices	\$ -	16	\$ -	2,369.64	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Develop & Maintain Project Schedule	\$ -	100	\$ -	13,804.00	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Project Team Coordination	\$ -	8	\$ -	1,104.32	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Assist CCD with CDOT Form 1243 Checklist Items	\$ -	4	\$ -	552.16	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Coordinate with CCD on CAD Configuration	\$ -	4	\$ -	552.16	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Assemble 90% and Final Plans & Specification Packages	\$ -	8	\$ -	1,104.32	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- 90% and Final Cost Estimates	\$ -	8	\$ -	1,104.32	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- 90% Plan Review Meeting Prep, Minutes, Response to Questions	\$ -	12	\$ -	1,696.48	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Prepare Final Project Submittal for CCD	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
2A. Right-of-Way																
- Prepare Legal Exhibits and Descriptions for ROW Acquisition	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Prepare ROW Plans	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- ROW Related Coordination Meetings	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
5. Roadway Design																
- 90% and Final Roadway Design - Plans & Specifications	\$ -	4	\$ -	552.16	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Document and Obtain Comments on Design Variables	\$ -	2	\$ -	276.08	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Develop Digital Terrain Model (DTM) and Profile Grade	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Quantity Calculations and Tabulations	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Prepare Design Report Coordination Meetings, Exhibits - Minutes	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
6. Utility Coordination																
- Update Existing Utility Referenced File	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- One-on-One Meetings with Utility Companies	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Obtain Agreement & Letter of Agreement from Utility Companies	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Coordinate with other Design Disciplines	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Support Services for Utility Agreements	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Prepare and Coordinate Utility Clearance Letters	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- Prepare Draft Utility Clearance Requests	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-
- DMU Related Coordination Meetings - Minutes	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-



THE SHIRG
CONSULTANTS
ULLÉVIÖ
Aggregating people for energy efficient solutions

CCD Project CEE3007 Amendment 1 - Project 1 - TIP

Fee Worksheet - Labor

Date: 11/04/11

By: Jeanne Sharpe, P.E.

Tasks	Designer IV		Designer III		Designer II		Designer I		Administrative		Totals	
	Rate: \$92.01		Rate: \$81.90		Rate: \$71.58		Rate: \$61.35		Rate: \$66.45			
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
1. Project Management												
- General Coordination with CCD PM		\$ -		\$ -		\$ -		\$ -		\$ -	371	\$ 46,532.72
- Monthly Progress Reports & Invoices		\$ -		\$ -		\$ -		\$ -		\$ -	81	\$ 11,206.60
- Develop & Maintain Project Schedule		\$ -		\$ -		\$ -		\$ -		\$ -	16	\$ 2,206.64
- Project Team Coordination		\$ -		\$ -		\$ -		\$ -		\$ -	16	\$ 2,206.64
- Assist CCD with CDDT Form 1243 Checklist Items		\$ -		\$ -		\$ -		\$ -		\$ -	101	\$ 13,677.60
- Coordinate with CCD on CAD Configuration	8	\$ 736.24		\$ -		\$ -		\$ -		\$ -	8	\$ 1,043.52
- Assemble 90% and Final Plans & Specification Packages	20	\$ 1,840.60		\$ -		\$ -		\$ -		\$ -	20	\$ 2,558.40
- 90% and Final Plans and Specification Package Quality Assurance		\$ -		\$ -		\$ -		\$ -		\$ -	16	\$ 1,026.00
- 90% Plan Review Meeting Prep, Minutes, Response to Questions		\$ -		\$ -		\$ -		\$ -		\$ -	24	\$ 2,857.76
- Prepare Final Project Submittal for CCD	24	\$ 2,159.72		\$ -		\$ -		\$ -		\$ -	24	\$ 4,055.92
2A. Right-of-Way												
- Prepare Legal Exhibits and Descriptions for ROW Acquisition		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- Prepare ROW Plans		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- ROW Related Coordination Meetings		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
5. Roadway Design												
- 90% and Final Roadway Design - Plans & Specifications	120	\$ 11,443.60		\$ -		\$ -		\$ -		\$ -	120	\$ 17,927.76
- Document and Obtain Comments on Design Variables	0	\$ -		\$ -		\$ -		\$ -		\$ -	10	\$ 1,416.80
- Develop Digital Linear Asset & Profile Data	60	\$ 5,572.80		\$ -		\$ -		\$ -		\$ -	60	\$ 6,492.52
- Quantity Calculations and Tabulations	8	\$ 732.24		\$ -		\$ -		\$ -		\$ -	28	\$ 3,088.94
- Estimate Design Related Coordination Meetings, Exhibits, & Minutes		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
6. Utility Coordination												
- Update Existing Utility Referenced File		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- One-on-One Meetings with Utility Companies		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- Obtain Easement & Lateral Agreements From Utility Companies		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- Coordinate with other Design Disciplines		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- Support Services For Utility Agreements		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- Prepare and Coordinate Utility Clearance Letters		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- Prepare Draft Utility Clearance Requests		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
- DMF Related Coordination Meetings & Minutes		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -



CCD Project CE33007 Amendment 1 - Project 1 - TIP Broadway Mississippi to Kentucky
Fee Worksheet - Labor
 Date: 11/04/11
 By: Jeanne Sharps, P.E.

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111
 Phone: 303-221-1440

Tasks	Principal I		Associate		Senior Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Senior Designer & Engineer, Environmental Scientist or Planner	
	Hours	Rate \$150.00	Hours	Rate \$148.26	Hours	Rate \$138.04	Hours	Rate \$127.81	Hours	Rate \$117.59	Hours	Rate \$102.25	Hours	Rate \$81.00
7. Utility Design														
- Prepare Existing Utility Plans + Conflict Summary Table	5		5		5		5		5		5		5	
- Prepare Future Location and Log Plan Sheets	5		5		5		5		5		5		5	
- Prepare Manhole Log / Net Sheet	5		5		5		5		5		5		5	
- Tabulation of Utility Removals and Adjustments	5		5		5		5		5		5		5	
- 80% and Final Wet Utility Design + Plans + Specifications	5		5		5		5		5		5		5	
- 80% and Final Wet Utility Quantities and Tabulations	5		5		5		5		5		5		5	
- Utility Design Coordination Meetings + Minutes	5		5		5		5		5		5		5	
8. Traffic Engineering Design														
- 80% and Final Traffic Design + Plans + Specifications	1	\$ 163.00	5		4	\$ 552.16	100	\$ 12,781.50	5		5		5	
- Quality Calculations and Tabulations	5		5		5		5		5		5		5	
- Traffic Design Related Coordination Meetings + Minutes	5		5		5		5		5		5		5	
9. Structural Engineering														
- 80% and Final Structural Design + Plans + Specifications	5		5		16	\$ 2,308.64	5		5		5		8	\$ 664.40
- Quality Calculations and Tabulations	5		5		5		5		5		5		4	\$ 327.20
- Coordinate with Urban Design on Structure Aesthetics	5		5		5		5		5		5		5	
10. Hydrology and Hydraulic Analysis & Design														
- 80% and Final Damaging Design + Plans + Specifications	5		5		5		5		5		5		5	
- Quality Calculations and Tabulations	5		5		5		5		5		5		5	
- Final Damaging Report	5		5		5		5		5		5		5	
- Damaging Design Related Coordination Meetings, Exhibits + Minutes	5		5		5		5		5		5		5	
11. Water Quality Analysis & Design														
- 80% and Final Water Quality Design + Plans + Specifications	5		16	\$ 2,372.16	2	\$ 276.08	5		40	\$ 4,703.60	5		5	
- Quality Calculations and Tabulations	5		5		5		5		5		5		5	
- Water Quality Design Related Coordination Meetings + Minutes	5		5		5		5		5		5		5	
12. Environmental Services														
- Materials Management Project Special Provision	1	\$ 163.00	5		4	\$ 511	4	\$ 470.36	5		5		5	
- 80% and Final Design Environmental Plans + Specifications	5		5		4	\$ 511	6	\$ 640.72	5		10	\$ 1,472.48	5	
- Quality Calculations and Tabulations	5		5		5		5		5		5		5	
- Coordinate Env. Mitigation with Project Design	5		5		2	\$ 296	15	\$ 1,681.44	5		10	\$ 1,472.48	5	
- Coordinate with Outside Env. Agencies	5		5		4	\$ 511	6	\$ 705.54	5		5		5	
- Assist CCD with EA Re-Evaluation	5		5		4	\$ 511	6	\$ 640.72	5		10	\$ 1,472.48	5	
- Environmental Related Coordination Meetings + Minutes	5		5		4	\$ 511	6	\$ 705.54	5		5		5	
13. Electrical and Lighting Analysis & Design														
- Coordinate with Utility Companies	5		5		5		5		5		5		5	
- Coordinate Electrical Design with Traffic Signal Design	5		5		5		5		5		5		5	
- 80% and Final Lighting Design + Plans + Specifications	5		5		5		5		5		5		5	
- Quality Calculations and Tabulations	5		5		5		5		5		5		5	
- Lighting Related Coordination Meetings, Exhibits + Minutes	5		5		5		5		5		5		5	
14. Construction Phasing & Detour Design														
- 80% and Final Phasing and Detour Design + Plans	5		5		5		5		40	\$ 4,096	5		5	
- Quality Calculations and Tabulations	5		5		5		5		5		5		5	



CCD Project CEE3007 Amendment 1 - Project 1 - TIP

Fee Worksheet - Labor

Date: 11/04/11

By: Jeanne Sharpe, P.E.

Tasks	Designer IV		Designer III		Designer II		Designer I		Administrative		Totals	
	Rate: \$92.01		Rate: \$81.90		Rate: \$71.58		Rate: \$61.35		Rate: \$66.45			
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
7. Utility Design												
- Prepare Existing Utility Plans + Conflict Summary Table	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Prepare Future Location and Log Plan Sheets	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Prepare Manual Log /Asr Sheet	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Tabulation of Utility Removals and Adjustments	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- 80% and Final Wet Utility Design + Plans + Specifications	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- 80% and Final Wet Utility Quantities and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Utility Design Coordination Meetings + Minutes	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
8. Traffic Engineering Design												
- 80% and Final Traffic Design + Plans + Specifications	\$	-	\$	-	\$	-	\$	-	\$	-	125	\$
- Quantity Calculations and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	105	\$
- Traffic Design Related Coordination Meetings + Minutes	\$	-	\$	-	\$	-	\$	-	\$	-	8	\$
9. Structural Engineering												
- 80% and Final Structural Design + Plans + Specifications	\$	-	\$	-	\$	-	\$	-	\$	-	48	\$
- Quantity Calculations and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	40	\$
- Coordinate with Hvac Design on Structure Methods	\$	-	\$	-	\$	-	\$	-	\$	-	8	\$
10. Hydrology and Hydraulic Analysis & Design												
- 80% and Final Damaging Design + Plans + Specifications	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Quantity Calculations and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Final Damaging Report	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Damaging Design Related Coordination Meetings, Exhibits + Minutes	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
11. Water Quality Analysis & Design												
- 80% and Final Water Quality Design + Plans + Specifications	\$	-	\$	3,272.00	\$	-	\$	-	\$	-	158	\$
- Quantity Calculations and Tabulations	\$	-	\$	554.40	\$	-	\$	-	\$	-	16	\$
- Water Quality Design Related Coordination Meetings + Minutes	\$	-	\$	-	\$	-	\$	-	\$	-	18	\$
12. Environmental Services												
- Materials Management Project Special Provision	\$	-	\$	-	\$	-	\$	-	\$	-	9	\$
- 80% and Final Design Environmental Plans + Specifications	\$	-	\$	-	\$	-	\$	-	\$	-	28	\$
- Quantity Calculations and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	16	\$
- Coordinate Env. Mitigation with Project Design	\$	-	\$	-	\$	-	\$	-	\$	-	34	\$
- Coordinate with Outside Env. Agencies	\$	-	\$	-	\$	-	\$	-	\$	-	10	\$
- Assist CCD with EA File Evaluation	\$	-	\$	-	\$	-	\$	-	\$	-	28	\$
- Environmental Related Coordination Meetings + Minutes	\$	-	\$	-	\$	-	\$	-	\$	-	10	\$
13. Electrical and Lighting Analysis & Design												
- Coordinate with Utility Companies	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Coordinate Electrical Design with Traffic Signal Design	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- 80% and Final Lighting Design + Plans + Specifications	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Quantity Calculations and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
- Lighting Related Coordination Meetings, Exhibits + Minutes	\$	-	\$	-	\$	-	\$	-	\$	-	0	\$
14. Construction Phasing & Detour Design												
- 80% and Final Phasing and Detour Design + Plans	\$	-	\$	3,272.00	\$	-	\$	-	\$	-	60	\$
- Quantity Calculations and Tabulations	\$	-	\$	-	\$	-	\$	-	\$	-	8	\$



CCD Project CE33007 Amendment 1 - Project 1 - TIP Broadway Mississippi to Kentucky

Fee Worksheet - Labor

Date: 11/04/11
 By: Jeanne Sharps, P.E.

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111
 Phone: 303-221-1440

Tasks	Principal I		Associate		Senior Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Senior Designer & Engineer, Environmental Scientist or Planner			
	Hours	Rate \$150.00	Hours	Rate \$148.26	Hours	Rate \$138.04	Hours	Rate \$127.81	Hours	Rate \$117.59	Hours	Rate \$102.25	Hours	Rate \$92.03	Hours	Rate \$107.38		
15. Construction Traffic Control																		
- 80% and Final Construction Traffic Control Design + Plans		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Quality Calculations and Tabulations		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
16. Public Outreach and Information																		
- Maintain Primary Public Relations Contact		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Maintain Stakeholder Contact Database		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Develop and Distribute Project Newsletter / Mailer		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Maintain a Project Website		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Project Simulations		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Meetings with City Council	2	\$ 327		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Exhibits and Presentations to Neighborhood & Business Groups		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Exhibits for Presentations to Public Works Management		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Individual Meetings with Property and Business Owners		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Public Outreach Related Construction Meetings, Exhibits + Minutes	4	\$ 644		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
17. Multi Agency Involvement & Coordination																		
- Coordinate Concerns/Issues with Other Agencies	2	\$ 327		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Coordinate with Project Stakeholders		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Multi-Agency Related Construction Meetings, Exhibits + Minutes		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
18. Sustainability																		
- Maintain and Update Sustainability Matrix		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Presentation to Oversight/Owner Committee		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
19. Design Progress / Coordination Meetings																		
- Attend Meetings	8	\$ 1,209		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Agencies		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Meeting Materials/Minutes		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
- Meeting Minutes		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Totals	23	\$ 3,762.80	32	\$ 4,744.35	457	\$ 63,084.29	162	\$ 20,705.22	424	\$ 49,558.16	116	\$ 11,861.93	80	\$ 7,267.40	12	\$ 941.60	24	\$ 2,378.64



CCD Project CEE3007 Amendment 1 - Project 1 - TIP
 Fee Worksheet - Labor
 Date: 11/04/11
 By: Jeanne Sharpe, P.E.

Tasks	Designer IV		Designer III		Designer II		Designer I		Administrative		Totals	
	Rate: \$92.01		Rate: \$81.90		Rate: \$71.58		Rate: \$61.35		Rate: \$66.45			
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
15. Construction Traffic Control												
- 80% and Final Construction Traffic Control Design + Plans												
- Quality Calculations and Tabulations												
16. Public Outreach and Information												
- Maintain Primary Public Relations Contact												
- Maintain Stakeholder Contact Database												
- Develop and Distribute Project Newsletter / Mailer												
- Maintain a Project Website												
- Project Simulations												
- Meetings with City Council												
- Exhibits and Presentations to Neighborhood & Business Groups												
- Exhibits or Presentations to Public Works Management												
- Individual Meetings with Property and Business Owners												
- Public Outreach Street Coordination Meetings, Exhibits + Minutes												
17. Multi Agency Involvement & Coordination												
- Coordinate Concerns/Issues with Other Agencies												
- Coordinate with Project Stakeholders												
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes												
18. Sustainability												
- Maintain and Update Sustainability Matrix												
- Presentation to Oversight/Owner Committee												
19. Design Progress / Coordination Meetings												
- Attend Meetings												
- Agencies												
- Meeting Materials/Minutes												
- Meeting Minutes												
Totals	332	\$ 30,153.98	104	\$ 8,597.20	6	\$ -	0	\$ -	17	\$ 797.52	178	\$ 264,776.10



**FELSBERG
HOLT &
ULLEVIG**

engineering paths to transportation solutions

**CCD Project CE93007 Amendment 1 - Project 1 - TIP Broadway Mississippi to Kentucky
Fee Worksheet - Reimbursables**

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.50	300	\$ 150.00
Parking	Each	*	10	\$ 100.00
Plotting Bond	SF	\$ 0.24	400	\$ 96.00
Copies Black & White	Each	\$ 0.08	15,000	\$ 1,200.00
Copies Color	Each	\$ 0.19	800	\$ 152.00
Foam Core Exhibit Mounting Board	SF	\$ 1.22	36	\$ 43.92
Postage for Major Mailings	Each	*		\$ 200.00
Projector Use	Each	\$ 100.00	3	\$ 300.00
Meeting Facility Rental	Each	*	1	\$ 600.00
Catering for Public Meetings	Each	*	1	\$ 300.00
Field Supplies for Materials Testing	Each	*		\$ -
Couriers	Each	*	10	\$ 500.00
Overnight Deliveries	Each	*		\$ -
Total				3,641.92

* At actual cost

Vendors	Cost
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	\$ -
Total	-

Project 1

DESIGNWORKSHOP

CCD Project CE93007 - Projects 1, 2 and 3 Final Design

Fee Worksheet - Summary

Date: 10/18/2011 Address: 1390 Lawrence St., Denver, CO 80206
By: Allyson Mendenhall Phone: 303-623-5186

Summary		
Design Workshop		
Project 1 Labor	\$ 171,970.00	\$57,323.33 per project
Reimbursables	\$ 5,043.36	\$1,681.12 per project
subtotal	\$ 177,013.36	\$59,004.45 per project
Vendors		
Hydrosystems KDI--Project 1 Labor	\$ 6,750.00	
Hydrosystems KDI--Project 1 Reimbursables	\$ 250.00	
	\$ -	
	\$ -	
	\$ -	
subtotal	\$ 7,000.00	\$2,333.33 per project
Total	\$ 184,013.36	\$61,337.79 per project

Project 1



CCD Project CE93007 - Projects 1, 2 and 3 COMBINED Final Design

Fee Worksheet - Labor

Date: 10/18/2011

By: Allyson Menderhall

Address: 1310 Lawrence Street, Denver, CO 80204

Phone: 301-423-5186

Tasks	Principal (Johnson)		Associate (Menderhall)		Project Landscape Architect (John Sperry)		Quality Management (James Fogli)		Project Assistant (Heather Pittman)		Project Graphic Designer (Nino Perio)		Totals	
	Hours	Rate \$225.00	Hours	Rate \$150.00	Hours	Rate \$110.00	Hours	Rate \$150.00	Hours	Rate \$80.00	Hours	Rate \$130.00	Hours	Rate
A. Streetscape and Landscape Design	30	\$ 6,750.00	80	\$ 12,000.00	140	\$ 15,400.00	8	\$ 1,200.00	70	\$ 5,600.00	0	\$ -	1028	\$ 18,650.00
- 50% Streetscape and Landscape Design Plans + Specifications														
- 100% Streetscape and Landscape Design Plans + Specifications	3	\$ 675.00	0	\$ 0.00	80	\$ 8,800.00	4	\$ 600.00	0	\$ 0.00	0	\$ -	131	\$ 11,675.00
- Utility Calculations and Tabulations for 90%, final and 100% reviews	1	\$ 225.00	4	\$ 600.00	20	\$ 2,200.00	4	\$ 600.00	4	\$ 320.00	0	\$ -	33	\$ 3,945.00
- Post-CR and final plan changes	2	\$ 450.00	6	\$ 900.00	40	\$ 4,400.00	2	\$ 300.00	4	\$ 320.00	0	\$ -	54	\$ 6,410.00
16. Public Outreach and Information														
- Meetings with City Council														
- Meetings with City Council														
- Exhibits and Presentations to Neighborhood & Business Groups	2	\$ 450.00	5	\$ 750.00	35	\$ 3,850.00		\$ -	0	\$ 0.00	0	\$ -	42	\$ 5,050.00
- Exhibits for Presentations to Public Works Management														
- Individual Meetings with Property and Business Owners														
- Public Outreach Meetings, Exhibits + Materials														
17. Multi Agency Involvement & Coordination														
- Coordinate Consensus Build with Outside Agencies	0	\$ -	0	\$ -	0	\$ -		\$ -	0	\$ 0.00	0	\$ -	0	\$ -
- Coordinate with Project Stakeholders														
- Multi-Agency Related Coordination Meetings, Exhibits + Materials	3	\$ 675.00	3	\$ 450.00	3	\$ 330.00		\$ -	1	\$ 80.00	0	\$ -	10	\$ 1,545.00
18. Sustainability														
- Provide sustainability updates by consultants at coordination meetings	0	\$ -	4	\$ 600.00	0	\$ -		\$ -	0	\$ 0.00	0	\$ -	4	\$ 600.00
- Update sustainability matrix at 75% complete design stage	1	\$ 225.00	20	\$ 3,000.00		\$ -		\$ -	0	\$ 0.00	4	\$ 360.00		\$ 3,985.00
- Assist CCD PM to determine categories for CCD Sustainability Planning and Concept Form, including one meeting	1	\$ 225.00	4	\$ 600.00	0	\$ -		\$ -	0	\$ 0.00	0	\$ -	5	\$ 825.00
19. Design Progress/Coordination Meetings														
- Attend Meeting- Consultant Team Coordination Meetings (assumes 12)	15	\$ 3,375.00	30	\$ 4,500.00	30	\$ 3,300.00		\$ -	4	\$ 360.00	0	\$ -	79	\$ 11,535.00
- Attend Meeting- Metropolitan related to historic mitigation, lighting, aesthetics of structures, water quality (assumes 8)	12	\$ 2,700.00	18	\$ 2,700.00	22	\$ 2,420.00		\$ -	3	\$ 270.00	0	\$ -	55	\$ 8,090.00
Totals	70	\$ 15,750.00	180	\$ 27,000.00	1070	\$ 117,700.00	15	\$ 2,200.00	94	\$ 7,480.00	4	\$ 380.00	1432	\$ 171,970.00

Average hours per month: 5.8 19.0 89.2 1.5 7.8 0.3 1411 \$ 171,970.00 \$ 31,250.00

Labor divided equally among 3 projects

meetings = \$ 13,080.00

\$ 140,740.00

\$ 5,050.00

\$ 1,540.00

\$ 5,010.00

\$ 19,625.00

\$ 171,970.00

30 hrs/wk for 12 mos. Allyson 3.0 hrs/wk for 6 mos and 1.0 hrs/wk for 6 mos. Jake 3.0 hrs/wk for 6 mos and 1.0 hrs/wk for 6 mos. Heather 2 hrs/wk for 12 mos.

Assumes no explicit credits by DW assumes no illustrative presentations or simulations by DW

Assumes 5 exhibits for DW

Over 12 mos. assumes 1 meeting for DW

12 Monthly meetings. Assumes Todd is attend 6 meetings. Allyson attend 12 meetings. Heather attend 12 meetings. Jake attend 12 meetings. Assumptions 2.5 hours/meeting

9 additional meetings (2 with Heerman, 2 with FHU water quality, 2 with FHU structure, 2 with SSO lighting, 1 with CCD/CCD). Todd to attend 5 meetings. Allyson to attend 7 meetings. Heather to attend 9 meetings. DW to provide notes for all biweekly specific meetings. assume 8.

Project 1 DESIGNWORKSHOP

CCD Project CE93007 - Projects 1, 2 and 3 Final Design Fee Worksheet - Reimbursables

Date: 10/18/2011 Address: 1390 Lawrence Street, Denver, CO 80206
By: Allyson Mendenhall Phone: 303-623-5186

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.51	800	\$ 408.00
Parking	Each	\$11	0	\$ -
RTD Light Rail Fare	Each	\$5	12	\$ 36.00
Copies-Black and White (8 1/2" x 11" and 8 1/2" x 14")	Each	\$ 0.15	1,200	\$ 180.00
Copies-Black and White (11" x 17")	Each	\$ 0.30	2,400	\$ 720.00
Copies-Color (8 1/2" x 11" and 8 1/2" x 14")	Each	\$ 1.00	300	\$ 300.00
Copies-Color (11" x 17")	Each	\$ 2.00	300	\$ 600.00
Diazo/Blue/line and Blackline Plots	SF	\$ 1.00	1,080	\$ 1,080.00
Large-Scale Scans	Square Inch	\$ 0.03	6,912	\$ 207.36
Color Plots	SF	\$ 5.00	288	\$ 1,440.00
Couriers	Each	\$ 20.00	3	\$ 60.00
CDs/DVDs	Each	\$ 3.00	4	\$ 12.00
Total			Total	5,043.36

Assumptions

12 monthly mtgs. at FHU x 32 miles roundtrip = 384 miles; miscellaneous site visits and addl. mtgs.
 \$4.50 fare x two people x 4 trips
 100 copies x 12 mos.
 200 copies x 12 mos.
 25 copies x 12 mos.
 25 copies x 12 mos.
 24"x36" (6 sf per) x 15 per month x 12 mos.
 (8) 24" x 36" (864 sq. in.) scans
 24"x36" (6 sf per) x 4 per month x 12 mos.

* At actual cost

Vendors	Cost
Hydrosystems KDI--Reimbursables	\$ 250.00
Hydrosystems KDI--Labor	\$ 6,750.00
Total	7,000.00

Reimbursables and Vendors divided equally among 3 projects

Goodbee

3 Project Segments Summary

	Total Hrs	Average Labor Rate	Total Labor Costs	Total ODC	Grand Total
1 - Broadway Kentucky to South of Tennessee TIP Project	593	107.23	\$ 63,550	\$ 8,432	\$ 71,981
2 - Broadway Mississippi to Arizona Project Final Design	528	107.50	\$ 56,715	\$ 13,232	\$ 69,946
3 - NB I-25 Loop On-Ramp & Water Quality Pond	533	107.67	\$ 57,373	\$ 9,632	\$ 67,004
TOTAL	1653		\$ 177,637	\$ 31,295	\$ 208,932

2,009	\$	231,392	\$	31,295	\$	262,687
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3 Project Segments:

- 1 - Broadway Kentucky to South of Tennessee TIP Project;
- 2 - Broadway Mississippi to Arizona Project Final Design
- 3 - NB I-25 Loop On-Ramp & Water Quality Pond;

Task No.	Project Segment	Description of Activities /Assumptions	Princ. Engr (Goodbee)	Senior Project Manager	Staff Project Engr	Project Utility Coordinator	Administrative Assistant/ Tech	Total Hrs	Total Cost		
TASK 1 - PROJECT MANAGEMENT	1	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	\$127.81/hr	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00		7.00	12.00	1,127	
	2	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	0.00	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00		7.00	12.00	1,127	
	3	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	0.00	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00		7.00	12.00	1,127	
		SUBTOTAL	6	0.00	0.00	7.50	21.00	34.50	3,382		
TASK 6 - UTILITY COORDINATION	1	As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600	
		Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 15 meetings); Deliverable - Meeting Minutes	2	18.00	8.00	22.50		50.50	5,580		
		Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐	0.5	2.00	1.00	2.67		6.17	686		
		Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings); Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities;		8.00	4.00	10.17		22.17	2,419		
		Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)		10.00	3.00	10.67		23.67	2,621		
		Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)	1	8.00	2.00	8.67		19.67	2,207		
		Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;		5.00	2.00	6.00		13.00	1,426		
			4.0	55.00	24.00	68.00		150.17	16,540		
		2	As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600
			Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 8 meetings); Deliverable - Meeting Minutes	2	10.00	4.00	12.00		28.00	3,129	
	Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐		0.5	2.00	1.00	2.67		6.17	686		
	Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings); Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities;			8.00	4.00	10.17		22.17	2,419		
	Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)			10.00	3.00	10.67		23.67	2,621		
	Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)		1	8.00	2.00	8.67		19.67	2,207		
	Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;			5.00	2.00	6.00		13.00	1,426		
			4.0	47.00	20.00	58.00		127.67	14,088		
	3		As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600
			Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 15 meetings); Deliverable - Meeting Minutes	2	18.00	8.00	22.50		50.50	5,580	
		Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐	0.5	2.00	1.00	2.67		6.17	686		
		Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings); Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities;		8.00	4.00	10.17		22.17	2,419		
		Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)		10.00	3.00	10.67		23.67	2,621		
Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)		1	8.00	2.00	8.67		19.67	2,207			
Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;			5.00	2.00	6.00		13.00	1,426			
		4.0	55.00	24.00	68.00		150.17	16,540			
			SUBTOTAL	11	157.00	68.00	192.50	0.00	428.00	47,168	
TASK 7 - UTILITY DESIGN		1	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 3 data sheets at 40 scale = 10 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHU and 1 final deliverable)	4	28.00	60.00	84.00		176.00	18,426	
	Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. ☐			15.00	16.00	29.00		60.00	6,370		
	Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 18 potholes)		2	11.00	18.00	27.00		58.00	6,145		
	Create manhole tabulation plan sheet(s) (assumes 1 add'l sheet) ☐			5.00	2.00	6.00		13.00	1,426		
	Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)			5.00	2.00	6.00		13.00	1,426		
	Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.			3.00	2.00	3.50		8.50	928		
	Provide utility Quantity Calculations for Dry utilities only;		2	5.00	6.00	10.00		23.00	2,500		
	Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.		2	10.00	4.00	12.00		28.00	3,129		
		10.0	82.00	110.00	178.00	0.00	378.50	40,351			

Goodbee and Associates, Inc.
 CCD Project CE93007
 South Broadway, Arizona to Exposition and I-25 Interchange



Task No.	Project Segment	Description of Activities /Assumptions	Princ. Engr (Goodbee)	Senior Project Manager	Staff Project Engr	Project Utility Coordinator	Administrative Assistant/ Tech	Total Hrs	Total Cost
			\$138.04/hr	\$127.81/hr	\$102.25/hr	\$97.14/hr	\$86.91/hr		
	2	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 2 data sheets at 40 scale = 9 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHJ and 1 final deliverable)	4	26.00	56.00	78.40		164.40	17,217
		Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. □		15.00	16.00	29.00		60.00	6,370
		Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 10 potholes)	2	7.00	10.00	16.00		35.00	3,747
		Create manhole tabulation plan sheet(s) (assumes 1 add'l sheets) □		5.00	2.00	6.00		13.00	1,426
		Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)		5.00	2.00	6.00		13.00	1,426
		Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.		3.00	2.00	3.50		8.50	928
		Provide utility Quantity Calculations for Dry utilities only;	2	5.00	6.00	10.00		23.00	2,500
		Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.	2	10.00	4.00	12.00		28.00	3,129
			10.0	76.00	96.00	161.00	0.00	344.90	36,744
	3	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 1-2 data sheets at 40 /50 scale = 8 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHJ and 1 final deliverable)	4	22.00	48.00	67.20		141.20	14,800
		Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. □		15.00	16.00	29.00		60.00	6,370
		Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 12 potholes)	2	8.00	12.00	19.00		41.00	4,371
		Create manhole tabulation plan sheet(s) (assumes 1 add'l sheets) □		5.00	2.00	6.00		13.00	1,426
		Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)		5.00	2.00	6.00		13.00	1,426
		Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.		3.00	2.00	3.50		8.50	928
		Provide utility Quantity Calculations for Dry utilities only;	2	5.00	6.00	10.00		23.00	2,500
		Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.	2	10.00	4.00	12.00		28.00	3,129
			10.0	73.00	92.00	163.00	0.00	327.70	34,951
		SUBTOTAL	30	231.00	300.00	491.10	0.00	1,052.10	112,046
TASK 19 - DESIGN PROGRESS/ COORDINATION MEETING	1	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting; Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting)		0.00	0.00	8.00		8.00	777
			2.0	15.00	7.00	27.00	0.00	51.00	5,532
	2	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting; Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting) - NOT INCLUDED IN THIS SCOPE		0.00	0.00	0.00		-	-
			2.0	15.00	7.00	19.00	0.00	43.00	4,755
	3	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting; Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting) - NOT INCLUDED IN THIS SCOPE		0.00	0.00	0.00		-	-
			2.0	15.00	7.00	19.00	0.00	43.00	4,755
		SUBTOTAL	6	45.00	21.00	65.00	0.00	137.00	15,041
TOTAL LABOR			53	433.00	389.00	756.10	21.00	1,651.60	177,637

Prev. hrs 2,009.00

Project Item	Units	# of Units	Unit Price	Subtotal	
Mileage	Total miles for all three project (3000 per project)	miles	9000.00	0.56	4995.00
1	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	10.00	600.00	6000.00
2	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	18.00	600.00	10800.00
3	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	12.00	600.00	7200.00
Total miles for all three project (3000 per project) - Projects 1 through 3	LS	3.00	0.00	0.00	
Parking - Projects 1 through 3	LS	3.00	600.00	1800.00	
Reproduction - Projects 1 through 3	LS	3.00	500.00	500.00	
TOTAL ODCs				\$ 31,295.00	

TOTAL ESTIMATE \$ 177,637.00 + \$ 31,295.00 = \$ 208,932.00

Goodbye assumptions

1. Per our meeting discussion, I reviewed the hours for one-on-one meeting with utility owners and feel that the hours provided are necessary to discuss and resolve the potential impacts identified. These meeting can be combined from one segment to another, however it doesn't change the amount of effort to discuss issues therefore just resulting to a longer meeting. For budgeting purposes, I have left these as is.
2. In regards to question on what the pothole effort includes: The pothole rate includes the coordination time on locates, minor traffic plan approval and control (Major NOT included), permits, standard excavation of a pothole up to 8' deep, core drills of asphalt and/or concrete and backfill and road patching as needed and slight contingency to cover miss locates which accounts for a second hole as well as potential difficult excavations i.e. rocks, etc.

Hermesen Consultants

Gail Keeley
486 W. Fremont Dr.
Littleton, CO 80120
Phone and Fax (303) 797-6337
gailkeeley@msn.com

**Historic Preservation
Environmental Planning**

August 30, 2011

Re: CCD CE93007 Broadway Arizona to Exposition Final Design

Ms. Jeanne Sharps, PE
Felsburg Holt & Ullevig
6300 S. Syracuse Way, Suite 600
Centennial, CO 80111

Dear Jeanne,

This letter includes my cost estimate to provide historic assessment services for Tasks 4 and 12 in the Scope of Work. My estimate is as follows.

TASK	HOURS
Task 4 Streetscape and Landscape Design Work with Design Workshop to develop and design mitigation for adverse impacts to Denver Tramway Trolley Tracks. Coordinate with project team and CDOT.	16
Task 12 – Environmental Services Prepare documentation for and conduct coordination meetings with project team, CDOT and SHPO	16
Total	32

Charge rate = \$180.00/hour; 32 hours X \$180 = \$5,760
Total Cost Estimate = \$5760

I look forward to working with you again, Jeanne.

Sincerely,


Gail Keeley
President / Owner



CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Summary

Date: 10/19/2011 Address: 8000 S. Chester Street, Suite 200, Centennial, CO 80112
 By: Rome/Beresford Phone: 303.220.6400

	Phase 1	Phase 2	Phase 3	Total
Summary				
Noite Associates, Inc.				
Labor	\$ 107,419.50	\$ 66,279.50	\$ 69,324.50	\$ 243,023.50
Reimbursables	\$ 1,607.30	\$ 964.38	\$ 642.92	\$ 3,214.60
subtotal	\$ 109,026.80	\$ 67,243.88	\$ 69,967.42	\$ 246,238.10
Vendors				
ALTUS TRAFIC (Traffic Control)	1800	1800	1800	\$ 5,400.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
subtotal				\$ 5,400.00
Total				\$ 251,638.10

Project 1 total = \$110,826.80
 Project 2 total = \$69,043.88
 Project 3 = \$71,767.42



**CCD Project CE93007 - TIP Project Final Design + Construction Support
Fee Worksheet - Labor Rev 5**

Date: 10/19/2011
By: RonelBaresford

Tasks	Associate			Engineering Manager			Senior Engineer			Associate Engineer			Assistant Engineer					
	Hours	Rate: \$106.50	Fee	Hours	Rate: \$154.00	Fee	Hours	Rate: \$135.00	Fee	Hours	Rate: \$112.50	Fee	Hours	Rate: \$106.50	Fee			
2. Survey - Prepare Center Line Survey (Plan, Utility, Substructure Investigation) - Extract Additional Information from 2015 Survey - Obtain Right-of-Way Permit (for both survey and geotech) - Update TOPO CAD File - Update DTM - Assist Geotech with Existing Utility Base File Update - Assist Geotech with Geotechnical Investigation - Survey Related Coordination Meeting (1 meeting)																		
2A. Right-of-Way - Review EIR/IS and Dispersions for CE/IS Grading Limits - Prepare ROW Plans - ROW Related Coordination Meeting (2 meetings)																		
7. Utility Design - Conduct Utility Plans + Conflict Summary / Info - Prepare Portals Location and Log Path Details - Prepare Member Log Path Details - Prepare Utility Plans + Specifications - 50% and Final VAD Utility Quantities and Evaluations - 50% and Final VAD Utility Design + Plans + Specifications - Utility Calculations and Evaluations - 50% and Final Drainage Design + Plans + Specifications - Drainage Design Related Coordination Meetings, Exhibits + Minutes																		
10. Hydrology and Hydraulic Analysis & Design - 50% and Final Drainage Design + Plans + Specifications - Drainage Design Related Coordination Meetings, Exhibits + Minutes																		
11. Water Quality Analysis & Design - Conduct Water Quality Design + Plans + Specifications - Water Quality Design Related Coordination Meetings, Exhibits + Minutes - Water Quality Design Related Coordination Meetings, Exhibits + Minutes																		
17. Multi Agency Environment & Coordination - Coordinate with Project Stakeholders - Multi-Agency Related Coordination Meetings, Exhibits + Minutes																		
18. Design - Prepare Final Plans - Prepare Final Construction Documents - Prepare Final Construction Documents - Prepare Final Construction Documents - Prepare Final Construction Documents																		
Totals	30	0	0	175	74	85	51,430.00	234	142	153	71,820.00	0	0	0	138	84	60	32,131.00



CCD Project CE93007 - TIP Project Final Design + Cor
 Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBaresford

Tasks	Junior Engineer			Survey Manager			Senior Surveyor			Associate Surveyor		
	Hours	Rate: \$34.00	Fee	Hours	Rate: \$138.00	Fee	Hours	Rate: \$118.00	Fee	Hours	Rate: \$34.00	Fee
2. Survey												
- Prepare Survey and Survey Plans (Utility, Subsurface Investigation)												
- Extract Additional Information from 2011 Survey												
- Obtain Right-of-Way Permits (for both survey and geotech)												
- Update TOPO CAD File												
- Update DTM												
- Assist Geotech with Existing Utility Base File Update												
- Survey Related Coordination Meeting (1 meeting)												
2A. Right-of-Way												
- Survey Right-of-Way and Easements for CE/LE Cracking Earth												
- Prepare ROW Plans												
- ROW Related Coordination Meeting (2 meetings)												
7. Utility Design												
- Conduct Utility Design + Conduct Summary / Evals												
- Prepare Profile, Location and Log Plans Sheets												
- Prepare Member Log Plan Sheet												
- 50% and Final VPI Utility Quantities and Easements												
- 50% and Final VPI Utility Design + Plans + Specifications												
- 50% and Final VPI Utility Quantities and Easements												
- 50% and Final VPI Utility Design + Plans + Specifications												
10. Hydrology and Hydraulic Analysis & Design												
- Quantity Calculations and Publications												
- Drainage Design Related Coordination Meetings, Exhibits + Minutes												
11. Water Quality Analysis & Design												
- Develop Water Quality Design + Plans + Specifications												
- Water Quality Design Related Coordination Meetings + Minutes												
17. Multi Agency Environment & Coordination												
- Coordinate with Project Stakeholders												
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes												
18. Design Production												
- Appendices												
- Printing/Production/Graphics												
- Material Purchase												
Totals	20	10	20	4700.00	172	69	30	26,118.00	3	3	1,046.50	28,388.00



CCD Project CE93007 - TIP Project Final Design + Cor
 Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBaresford

Tasks	2 Person Field Crew										Total
	Rate: \$140.00	Hours	Fee	Hours						Fee	
				1	2	3	4	5	6	7	
2. Survey											
- Prepare Center and Survey Maps, Utilities, Subsurface Investigation		14	\$ 1,960.00								\$ 1,960.00
- Extract Additional Information from 2011 Survey		14	\$ 1,960.00								\$ 1,960.00
- Obtain Right-of-Way Permits (for both survey and geotech)		0	\$ -								\$ -
- Obtain Right-of-Way Permits (for both survey and geotech)		0	\$ -								\$ -
- Update LOTO CAD File		0	\$ -								\$ -
- Update DTM		0	\$ -								\$ -
- Assist Geotechnical with Existing Utility Base File Update		16	\$ 2,240.00								\$ 2,240.00
- Assist Geotechnical with Existing Utility Base File Update		8	\$ 1,120.00								\$ 1,120.00
- Survey Related Coordination Meetings (1 meeting)		0	\$ -								\$ -
2A. Right-of-Way											
- Prepare ROW Plans and Easements for C&E 1's Grading (Earth)		0	\$ -								\$ -
- Prepare ROW Plans		0	\$ -								\$ -
- ROW Related Coordination Meeting (2 meetings)		0	\$ -								\$ -
7. Utility Design											
- Conduct Utility Design + Corridor Summary / Exhibits		0	\$ -								\$ -
- Prepare Preliminary Location and Log Path Details		0	\$ -								\$ -
- Prepare Member Log Path Details		0	\$ -								\$ -
- Prepare Member Log Path Details		0	\$ -								\$ -
- 50% and Final VPI Utility Quantities and Easements		110	\$ 15,400.00								\$ 15,400.00
- 50% and Final VPI Utility Quantities and Easements		32	\$ 4,480.00								\$ 4,480.00
- 50% and Final VPI Utility Quantities and Easements		55	\$ 7,700.00								\$ 7,700.00
10. Hydrology and Hydraulic Analysis & Design											
- 50% and Final Drainage Design, 4 Plans + Specifications		109	\$ 15,260.00								\$ 15,260.00
- Drainage Calculations and Easements		28	\$ 3,920.00								\$ 3,920.00
- Drainage Calculations and Easements		19	\$ 2,660.00								\$ 2,660.00
- Drainage Design Related Coordination Meetings, Exhibits + Minutes		0	\$ -								\$ -
11. Water Quality Analysis & Design											
- Conduct Water Quality Analysis + Specifications		0	\$ -								\$ -
- Conduct Water Quality Analysis + Specifications		0	\$ -								\$ -
- Water Quality Design Related Coordination Meetings + Minutes		0	\$ -								\$ -
17. Multi Agency Environment & Coordination											
- Coordinate with Project Stakeholders		0	\$ -								\$ -
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes		13	\$ 1,820.00								\$ 1,820.00
18. Design											
- Prepare Final Design		88	\$ 12,320.00								\$ 12,320.00
- Appendices		10	\$ 1,400.00								\$ 1,400.00
- Appendixes/Calculations/graphics		27	\$ 3,780.00								\$ 3,780.00
- Meeting Minutes		0	\$ -								\$ -
Totals		48	\$ 6,720.00	32	20	20	15	51	51	61	\$ 8,400.00

\$19,933.00 carried forward to hydrology and drainage in overall consultant fee



**CCD Project CE93007 - TIP Project Final Design + Cor
Fee Worksheet - Labor Rev 5**

Date: 10/19/2011
By: RonelBarnesford

Tasks	
2. Survey	<ul style="list-style-type: none"> • Obtain/Confirm Field Survey Data (Utility, Subsurface Investigation) • Extract Additional Information from 2010 Survey • Obtain Right-of-Way Permits (for both survey and geotech) • Perform Geotechnical Investigation • Update TOPO CAD File • Update DTM • Assist Geotech with Existing Utility Base File Update • Assist Geotech with Proposed Utility Base File Update • Survey Related Coordination Meeting (1 meeting)
2A. Right-of-Way	<ul style="list-style-type: none"> • Obtain Survey Points and Descriptions for (C&G) Crating Limits • Prepare ROW Plans • ROW Related Coordination Meeting (2 meetings)
7. Utility Design	<ul style="list-style-type: none"> • Conduct Utility Design + Conflict Summary / Lists • Prepare Proposed Location and Log Path Sheets • Prepare Member Log Path Sheet • Prepare Utility Design + Conflict Summary / Lists • 50% and Final VTI Utility Design + Plans + Specifications • 50% and Final VTI Utility Quantities and Elevations • 50% and Final VTI Utility Design + Plans + Specifications
10. Hydrology and Hydraulic Analysis & Design	<ul style="list-style-type: none"> • Storm Drainage Design • Storm Calculations and Tabulations • Drainage Design Related Coordination Meetings, Exhibits + Minutes
11. Water Quality Analysis & Design	<ul style="list-style-type: none"> • Storm Water Pollution Prevention Plan + Specifications • Storm Water Pollution Prevention Plan • Water Quality Design Related Coordination Meetings + Minutes
17. Multi Agency Environment & Coordination	<ul style="list-style-type: none"> • Coordinate with Project Stakeholders • Multi-Agency Bureau Coordination Meetings, Exhibits + Minutes
18. Design Review Meeting	<ul style="list-style-type: none"> • Design Review Meeting • Agenda • Meeting Minutes/Graphics • Meeting Minutes
Totals	

Assumes required allocation of water Broadway to Lincoln along Mississippi. Depressions at 5 locations & hydrant relocation, documentation for tap location, stub service at Kentucky and Tennessee, reconfiguration at loop pump area for Storm Collection area
 Water Sheet Court 4 sheets + Details
 Sanitary Sheet Court 1 Sheet + Details
 Assumes Removal and replacement of Brick Lined Sewer along Broadway, New Storm along Broadway, Vault reconstruction in Mississippi/Broadway Intersection due to elevation adjustment, New Vault for East Side service, Local service connection at Ohio. Assume future expor
 Storm Sheet Court 7 plan view, 7 profile view, 4 details including outlet structures/elevations
 Assume the Grading associated with Pond area exporable above VSE 2 sheets



CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Reimbursables

Date: 10/19/2011

Address: 8000 S. Chester Street, Suite 200, Centennial, CO 80112

By: Rome

Phone: 303.220.6400

Reimbursables	Unit	Cost Per Unit	Number	Cost Total	Cost Phase 1	Cost Phase 2	Cost Phase 3
Mileage	Miles	\$ 0.50		\$ -	\$ -	\$ -	\$ -
Parking	Each	*	30	\$ 360.00	\$ 180.00	\$ 108.00	\$ 72.00
Plotting Bond	SF	\$ 0.24	3,200	\$ 768.00	\$ 384.00	\$ 230.40	\$ 153.60
Copies Black & White	Each	\$ 0.08	8,000	\$ 640.00	\$ 320.00	\$ 192.00	\$ 128.00
Copies Color	Each	\$ 0.19		\$ -	\$ -	\$ -	\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22	120	\$ 146.40	\$ 73.20	\$ 43.92	\$ 29.28
Postage for Major Mailings	Each	*	1	\$ 0.20	\$ 0.10	\$ 0.06	\$ 0.04
Project Use	Each	\$ 100.00		\$ -	\$ -	\$ -	\$ -
Meeting Facility Rental	Each	*		\$ -	\$ -	\$ -	\$ -
Catering for Public Meetings	Each	*		\$ -	\$ -	\$ -	\$ -
Field Supplies for Materials Testing	Each	*	1	\$ 100.00	\$ 50.00	\$ 30.00	\$ 20.00
Couriers	Each	*	20	\$ 1,000.00	\$ 500.00	\$ 300.00	\$ 200.00
Overnight Deliveries	Each	*	10	\$ 200.00	\$ 100.00	\$ 60.00	\$ 40.00
Total				\$ 3,214.60	\$ 1,607.30	\$ 964.38	\$ 642.92

* At actual cost

Vendors	Cost
ALTUS TRAFFIC (Traffic Control)	\$ -
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-



TRAFFIC CONTROL PROPOSAL

May 2nd 2011

To: Nolte Vertical Five
 Attn: Charles Beresford
Re: Traffic Control Proposal: Broadway

ALTUS Traffic provides personalized full-service traffic management, 24 hrs a day 365 days a year. Altus Traffic's all-inclusive rate structure, offers the following key components:

- Risk analysis / Job Safety Site Audits
- Road authority negotiations / notifications / assessments (Obtaining Permits)
- Emergency notifications
- Services notification (buses / trains)
- Necessary Vehicles and Best in Market Equipment (signs, two-way radios, ppe)
- Qualified Uniformed Traffic Controllers – Para-professionals
- Traffic control – Full implementation and management
- Single & Multiple lane closure.
- Road closures / detours.
- Short term / long term projects.
- Full Job Report on Completion

Item(s)	UOM	Quantity	Unit Price	Total Price
Traffic Control Plans	Each	3.00	\$100.00	\$300.00
1 - Man Crew	Day	3.00	\$500.00	\$1,500.00
<i>Projected Total</i>				\$1,800.00



Conditions

- *Terms – Net 21 Days*
- *Altus reserves the right to increase rates due to and not limited to – Union requirement, material cost and labor cost. Such increases will require 15 day written notice to Nolte Vertical Five , and a signed agreement by both parties.*
- *Estimate provided considering known quantities and conditions. Any changes in quantities and conditions may impact estimate.*
- *A 4 (four) hour minimum on all works*
- *1 – Man Crew Pricing includes 1 (one) person, 1 (one) barricade truck, all cones, signs and barricades needed for the scope of work and 1 (one) arrow board for up to 8 hours worked. If hours exceed 8 for any reason, invoicing will reflect those hours at the hourly rate of \$48.25 per hour.*

Accepted on behalf of Nolte Vertical Five

Signed on behalf of Altus Traffic

.....

.....

Date:.....

Date:.....

Thank You

Nolte Assumptions

- Phase 2-Survey:
 - Obtain Right Of Entry Permits: assumes all ROE permits will be prepared and sent at one time and that property owners will return the additional permits with little follow up from Nolte.
 - Assist Goodbye With Existing Utility File Updates: assumes ALL utility field work can be performed in four 8-hour days or total of 32 field hours including travel time.
 - Potholing (25 holes): assumes all potholing will be performed at one time for the 3 areas.
- Phase 2A-Right-Of-Way:
 - Prepare ROW Plans: assumes one ROW Plan set versus 3.
 - ROW Related Meetings: assumes 2 meetings instead of 3.
- Assumes that Nolte will not have involvement at Public Meetings including Neighborhood Meetings, Public Hearings or Stakeholder presentations
- Assumes that sustainability efforts will be limited to Matrix update at the 60% completion level and Final Plan Completion
- Assumes that the Project deliverable will be presented as a single Phase. Incremental phasing plans will be addressed as an additional service
- Assumes that existing conditions investigation of brick lined sewers and Sanitary Sewer in Mississippi will be available in the first 2 months of the project start to address design limits.
- Assumes that timing for Phase 1 Construction is scheduled to occur in the spring of 2013. Variations from the project that postpone the schedule, cause appreciable variation from the 30% design concept or delays to re-evaluate concepts previously addressed will be considered additional services



CCD Project CE93007 - Summary of 3 Tasks:

Broadway Kentucky to South of Tennessee TIP Project
 Broadway Mississippi to Arizona Project Final Design
 NB I-25 Loop On-Ramp & Water Quality Pond

Fee Worksheet - Summary

Date: Revised September 23, 2011

Address:

By: Nanci Regnier

Phone:

Summary	
Regnier & Associates, Inc.	
Labor Project 1	\$ 3,330.00
Labor Project 2	\$ 3,330.00
Labor Project 3	\$ 3,330.00
Reimbursables	\$ 150.00
subtotal	\$ 10,140.00
Vendors	
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ -
Total	\$ 10,140.00

total per project = \$3,380.00



CCD Project CE93007 - Broadway Kentucky to South of Tennessee TIP Project

Fee Worksheet - Labor

Date: Revised 9/23/2011
 By: Nanci Regnier
 Address: 1600 Glenarm Place #2505, Denver, CO 80202
 Phone: 303-680-6849

Tasks	Principal		Administrative		Vendor		Totals	
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
	Rate: \$120.00		Rate: \$75.00					
1. Project Management								
- General Coordination with CCD PM								
- Monthly Progress Reports & Invoices	1.5	\$ 180.00	3	\$ 225.00			4.5	\$ 405.00
- Develop & Maintain Project Schedule							0	\$ -
- Project Team Coordination	4.5	\$ 540.00					4.5	\$ 540.00
- Assist CCD with CDOT Form 1243 Checklist Items							0	\$ -
- Assemble 90% and Final Plans & Specification Packages							0	\$ -
- 90% and Final Plan and Specification Package Quality Assurance							0	\$ -
- 90% and Final Cost Estimates							0	\$ -
- 90% Plan Review Meeting Prep, Minutes, Response to Questions							0	\$ -
- Prepare Final Project Submittal for CCD							0	\$ -
16. Public Outreach								
- Maintain Primary Public Relations Contact	3	\$ 360.00					3	\$ 360.00
- Maintain Stakeholder Contact Database							3	\$ 225.00
- Develop and Distribute Project Newsletter / Mailer			3	\$ 225.00			3	\$ 225.00
- Maintain a Project Website	8	\$ 1,000.00					8	\$ 1,000.00
- Project Simulations							0	\$ -
- Meetings with City Council	3	\$ 320.00					3	\$ 320.00
- Exhibits and Presentations to Neighborhood & Business Groups							3	\$ 320.00
- Exhibits for Presentations to Public Works Management							0	\$ -
- Individual Meetings with Property and Business Owners							0	\$ -
- Public Outreach Related Coordination Meetings, Concalls + Minutes	1	\$ 160.00					1	\$ 160.00
Totals	24	\$ 2,880.00	6	\$ 450.00			30	\$ 3,330.00



**CCD Project CE93007 - Broadway Kentucky to South of Tennessee TIP Project
Fee Worksheet - Reimbursables**

Date: Revised September 23, 2011 Address: 1600 Glenarm Place #2505, Denver, CO 80202
By: Nanci Regnier Phone: 303-680-6849

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.50	100	\$ 50.00
Parking	Each	*		\$ -
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08		\$ -
Copies Color	Each	\$ 0.19		\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		\$ -
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		\$ -
Catering for Public Meetings	Each	*		\$ -
Field Supplies for Materials Testing	Each	*		\$ -
Couriers	Each	*		\$ -
Overnight Deliveries	Each	*		\$ -
Total				50.00

* At actual cost

Vendors	Cost
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-



**CCD Project CE93007 - 3 Project Segments + Construction Support
Fee Worksheet - Summary**

Date: 10/20/2011 Address: 3025 South Parker Rd. Suite 1100, Aurora
By: Sandra Scanlon Phone: 303-696-2602

Summary	
SSSG MEP, Inc.	
Labor Package #1	\$ 33,121.45
Reimbursables Package #1	\$ 351.42
Optional Construction Support Pkg #1	\$ -
subtotal	\$ 33,472.87
Labor Package #2	\$ 18,465.79
Reimbursables Package #2	\$ 351.42
Optional Construction Support Pkg #2	\$ -
subtotal	\$ 18,817.21
Labor Package #3	\$ 15,415.09
Reimbursables Package #3	\$ 351.42
Optional Construction Support Pkg #3	\$ -
subtotal	\$ 15,766.51
Vendors	
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ -
Total w CA	\$ 68,056.59



Pkg 1

**CCD Project CE93007 - Broadway Kentucky South to South of Tennessee TIP Project + Construction Support
Fee Worksheet - Reimbursables**

Date: 10/20/2011 Address: 3025 South Parker Rd. Suite 1100, Aurora, CO 80014
By: Sandra Scanlon Phone: 303-696-2602

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.51	200	\$ 102.00
Parking	Each	\$ 12.00	8	\$ 96.00
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08	75	\$ 6.00
Copies Color	Each	\$ 0.19	18	\$ 3.42
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		
Catering for Public Meetings	Each	*		
Field Supplies for Materials Testing	Each	*		
Couriers	Each	\$ 12.00	12	\$ 144.00
Overnight Deliveries	Each	*		
Total				351.42

* At actual cost



CCD Project: CE93007 - Broadway Kentucky South to South of Tennessee TIP Project + Optional Construction Support

Fee Worksheet - Labor

Date: 10/20/2011
By: Sankita Scanlon

Page 1

Address: 3029 South Parker Rd. Suite 1100, Aurora, CO 80014
Phone: 303-696-3002

Tasks	Principal - Scanlon		Engineer - Thorpe		CAD/Designer - Clark, Johnson		Administrative - Gibbs		Totals	
	Hours	Rate \$	Hours	Rate \$	Hours	Rate \$	Hours	Rate \$	Hours	Rate \$
13. Electrical and Lighting Analysis & Design										
- Coordination of lighting removals and resets										
- Coordination of lighting removals and resets in water										
- qualify pond Area										
- Any Structural base design for FHJ in this phase? No										
- Pedestrian lighting equipment selection is done, no modifications in FOR										
- Roadway lighting equipment is specified MH and luminaire										
- Purchase luminaire & 10' max arm										
- Provide luminaire schedule with a complete metered system for pedestrian lights, ITS eqm, HALO cameras, and traffic signals. Flat rate cost for street lights with branch circuits by the EC of this contract, due to Federal Funding.										
- Coordinate with electrical utility and utility consultant re										
- Obtain the installation requirements for one HALO camera, design electrical provisions										
- 90% Lighting Design + Plans + Specifications. New (3 plans and removals (3 plans)	1	168	12	1,274	4	335			17	1,776.79
- 100% Lighting Design + Plans + Specifications. New (3 plans and removals (3 plans)			2	212					2	212.32
- 90% Quantity Calculations and Tabulations			60	6,370	40	3,352			100	9,722.00
- 100% Quantity Calculations and Tabulations			32	3,897	10	838			42	4,735.22
- 90% Quantity Calculations and Tabulations			6	637	4	335			10	972.20
- 90% and 100% Develop Lighting and Electrical SOW			3	318					3	318.48
- Opinion of Probable Cost										
- O&M process	3	1,341	4	425	4	335			16	2,100.92
- Coordination with Design Team			12	1,274					12	1,273.92
- Coordination with Design Team			3	318.48			4	202.92	7	509.40
14. Construction Phasing & Detail Design										
- Assume no lighting design impact										
15. Construction Traffic Control										
- Plans										
- Quantity Calculations and Tabulations										
16. Public Outreach and Information										
- Maintain Primary Public Relations Contact										
- Maintain Stakeholder Contact Database										
- Develop and Distribute Project Newsletter / Mailer										
- Develop and Distribute Project Website										
- Project Simulation										
- Meetings with City Council										
- Business Groups										
- Management										
- Owners										
- Contribute photos for Exhibits			4	425					4	424.64
17. Multi Agency Involvement & Coordination										
- Coordinate/Consensus Build with Outside Agencies										
- Coordinate with Project Stakeholders										
- One Multi-Agency Related Coordination Meeting			6	637					6	636.96
18. Sustainability										
- Maintain and Update Sustainability Matrix										
- No Further analysis of Solar and/or LED lighting sources										
19. Design Meetings										
- Design Meetings			60	6,370					60	6,368.60
- Agenda										
- Meeting Handouts/Graphics			12	1,274	12	1,006			24	2,279.64
- Meeting Minutes			20	2,123					20	2,123.20
23. Additional Services										
- NA										
Totals	9	1,565.67	237	25,155.92	74	2,207.94	4	250.92	324	33,121.45
	3%		5%		73%		1%		100%	

Assumptions by SSG MEP

most of work is in this package, of assume 1 camera per package

I deleted these since this should j. split among 3 packages for 12 m

424.64 this covers all packages

636.96 this covers all packages

this covers all packages

this covers all packages

this covers all packages

this covers all packages

this covers all packages

Pkg 1		Broadway Kentucky South to South of Tennessee TIP Project		
		Sheet num	description	hours per sheet
		1	LT-1 cover sheet	21.6
		2	LT-2 map key	21.6
		3	LT-49 luminaire schedule	21.6
		4	LT-50 luminaire schedule	21.6
		5	LT-05 plan sheet	21.6
		6	LT-28 plan sheet	21.6
		7	LT-06 plan sheet	21.6
		8	LT-29 plan sheet	21.6
		9	LT-07 plan sheet	21.6
		10	LT-30 plan sheet	21.6
		11	LT-? details	21.6
		12	LT-? details	21.6
		13	LT-? panel schedules	21.6
		14	LT-? panel schedules	21.6
	total sheets	15	LT-? tabs	21.6
	total hours	324		324



CCD Project CE93007 - TIP Project Final Design + Construction Support
 Fee Worksheet - Labor

P.1

Date: 9/27/2011
 By: Marjorie Alexander

Tasks	Designer V		Totals	
	Hours	Fee	Hours	Fee
	Rate: \$95.00			
16. Public Outreach and Information				
- Maintain Primary Public Relations Contact		\$ -	0	\$ -
- Maintain Stakeholder Contact Database		\$ -	0	\$ -
- Develop and Distribute Project Newsletter / Mailer		\$ -	0	\$ -
- Maintain a Project Website		\$ -	0	\$ -
- Project Simulations and 3D Model - See "Explanation of Task" Sheet that follows	60	\$ 5,700	60	\$ 5,700.00
- Meetings with City Council		\$ -	0	\$ -
- Exhibits and Presentations to Neighborhood & Business Groups		\$ -	0	\$ -
- Exhibits for Presentations to Public Works Management		\$ -	0	\$ -
- Individual Meetings with Property and Business Owners		\$ -	0	\$ -
- Public Outreach Related Coordination Meetings, Exhibits + Minutes		\$ -	0	\$ -
Totals	60	\$ 5,700	60	\$ 5,700.00



CCD Project CE93007 - TIP Project Final Design
Project 1 - Broadway, Kentucky to Mississippi
Fee Worksheet - Summary

Date: 9/22/2011 Address:
By: Mike Kiefer, Yeh and Associates, Inc. Phone:

Summary	
Yeh and Associates, Inc.	
Labor	\$ 15,525.90
Reimbursables	\$ 311.00
subtotal	\$ 15,836.90
Vendors	
Drilling Subcontract	\$ 1,135.00
Traffic Control	\$ 1,250.00
Outside Laboratory	\$ 250.00
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ 2,635.00
Total	\$ 18,471.90



CCD Project CES007 - TIP Project Final Design
Project 1 - Broadway, Kentucky to Mississippi
Fee Worksheet - Labor

Date: 8/22/2011
 By: Mike Kicher, Yih and Associates, Inc.

Address: 4709 E. Evans Ave, Denver, CO 80222
 Phone: 303-751-6990

Tasks	Principal		Project Manager		Senior Engineer, Environmental Scientist or Planner		Project Engineer, Environmental Scientist or Planner		Staff Engineer, Environmental Scientist or Planner		Field Senior Engineer/Technician		Field Engineering Technician		Laboratory Technician		Drafter		Totals		
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	
3. Geotechnical Investigation & Pavement Design																					
- Subsurface Investigation (Test Holes + Laboratory Tests)																					
- Obtain Street Occupancy Permits																					
- Coordinate Survey of Test Holes																					
- Final Foundation Recommendation																					
- Final Geotech Report																					
- Final Geotech Memo																					
- Prepare Test Hole CAD Reference File																					
- Prepare Geotechnical Test Hole Location Map Plan Sheets																					
- Prepare Geotechnical Test Hole Location Map Section Sheets																					
- Geotechnical Pavement Design Related Coordination Meetings																					
Totals	2	\$ 304.00	54	\$ 7,452.00	0	\$ -	41	\$ 3,895.00	17	\$ 1,303.00	0	\$ -	0	\$ -	14	\$ 840.00	26	\$ 1,729.00	154	\$ 18,525.00	



CCD Project CE93007 - TIP Project Final Design
Project 1 - Broadway, Kentucky to Mississippi
Fee Worksheet - Reimbursables

Date: xx 9/22/2011 Address: 5700 E. Evans Ave, Denver, CO 80222
 By: xx Mike Kiefer, Yeh and Associates, Inc. Phone: 303-781-9590

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.555	200	\$ 111.00
Parking	Each	*		\$ -
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08		\$ -
Copies Color	Each	\$ 0.19		\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		\$ -
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		\$ -
Catering for Public Meetings	Each	*		\$ -
Field Supplies for Materials Testing	Each	*		\$ 200.00
Couriers	Each	*		\$ -
Overnight Deliveries	Each	*		\$ -
Total				311.00

* At actual cost

Vendors	Cost
Drilling Subcontract	\$ 1,135.00
Traffic Control	\$ 1,250.00
Outside Laboratory	\$ 250.00
Total	2,635.00

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-

Project 2

Broadway Arizona to Mississippi



CCD Project CE93007 Amendment 1

Fee Worksheet Summary Project 2 - Broadway Arizona to Mississippi

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

	Fee for Basic Services (Labor)	% of Total Fee for Basic Services (Labor)	*Reimbursable Expenses	Additional Services	Total
Felsburg Holt & Ullevig	\$ 177,273.88	45.59%	\$ 3,641.92		\$ 180,915.80
Design Workshop	\$ 57,323.33	14.74%	\$ 4,014.45	\$ -	\$ 61,337.79
Goodbee & Associates, Inc. (MWBE)	\$ 56,714.61	14.59%	\$ 13,231.67	\$ -	\$ 69,946.27
Hermesen Consultants (MWBE)		0.00%		\$ -	\$ -
Nolte	\$ 66,279.50	17.05%	\$ 2,764.38	\$ -	\$ 69,043.88
Regnier & Associates, Inc.(MWBE)	\$ 3,330.00	0.86%	\$ 50.00	\$ -	\$ 3,380.00
SSG MEP (MWBE)	\$ 18,465.79	4.75%	\$ 351.42	\$ -	\$ 18,817.21
Two Hundred (MWBE)		0.00%		\$ -	\$ -
Yeh & Associates (MWBE)	\$ 9,433.60	2.43%	\$ 2,411.00	\$ -	\$ 11,844.60
Additional Services					\$ -
Totals	\$ 388,820.71	100%	\$ 26,464.84	\$ -	\$ 415,285.55

MWBE Total \$ 87,944.00
% MWBE 22.62%

Note: MWBE % based on labor only.

* Includes Vendors



CCD Project CE93007 Amendment 1 - Project 2 - Broadway Arizona to Mississippi

Summary by Task/Sub

Tasks	Totals	% Total	FHU	Design Workshop	Goodbee (MMBE)	Hermesen (MMBE)	Nolte	Regnier (MMBE)	SSG MEP (MMBE)	Two Hundred (MMBE)	Yeh (MMBE)
1. Project Management	\$ 46,933.80	11.1%	\$ 45,933.80								
2. Survey	\$ 14,697.50	3.5%	\$ -				\$ 14,697.50				
2A. Right-of-Way	\$ 9,060.00	2.1%	\$ -				\$ 9,060.00				
3. Geotechnical Investigation & Pavement Design	\$ 9,433.60	2.2%	\$ -								\$ 9,433.60
4. Streetscape and Landscape Design	\$ 46,913.33	11.1%	\$ -	\$ 46,913.33							
5. Roadway Design	\$ 48,560.12	11.5%	\$ 48,560.12								
6. Utility Coordination	\$ 14,088.38	3.3%	\$ -		\$ 14,088.38						
7. Utility Design	\$ 58,482.59	13.8%	\$ -		\$ 37,871.58		\$ 20,611.00				
8. Traffic Engineering Design	\$ 16,093.88	3.8%	\$ 15,093.88								
9. Structural Engineering	\$ 5,337.44	1.3%	\$ 5,337.44								
10. Hydrology and Hydraulic Analysis & Design	\$ 21,082.00	5.0%	\$ -				\$ 21,082.00				
11. Water Quality Analysis & Design	\$ 14,785.44	3.5%	\$ 14,785.44								
12. Environmental Services	\$ 5,378.52	1.3%	\$ 5,378.52						\$ 18,465.79		
13. Electrical and Lighting Analysis & Design	\$ 18,465.79	4.4%	\$ -								
14. Construction Phasing & Detour Design	\$ 8,180.00	1.9%	\$ 8,180.00								
15. Construction Traffic Control	\$ 4,171.80	1.0%	\$ 4,171.80					\$ 3,330.00			
16. Public Outreach and Information	\$ 7,221.97	1.7%	\$ 2,208.64	\$ 1,683.33			\$ 829.00				
17. Multi Agency Involvement & Coordination	\$ 6,190.76	1.5%	\$ 4,846.76	\$ 515.00							
18. Sustainability	\$ 1,670.00	0.4%	\$ -	\$ 1,670.00							
19. Design Progress / Coordination Meetings	\$ 30,464.45	9.3%	\$ 20,777.48	\$ 6,541.67	\$ 4,754.64		\$ 7,390.67				
Reimbursables	\$ 9,431.51	2.2%	\$ 3,641.92	\$ 1,691.12	\$ 2,431.67		\$ 964.38	\$ 50.00	\$ 351.42		\$ 311.00
Vendors	\$ 17,033.33	4.0%	\$ -	\$ 2,333.33	\$ 10,800.00		\$ 1,800.00				\$ 2,100.00
Additional Services	\$ -	0.0%	\$ -	\$ -	\$ -		\$ -				\$ -
Totals	\$ 422,676.22	100.0%	\$ 180,915.80	\$ 61,337.79	\$ 69,946.27	\$ -	\$ 76,434.55	\$ 3,380.00	\$ 18,817.21	\$ -	\$ 11,844.60

Totals \$ 177,273.88

SURVEY	\$ 14,698	3%
ROW	\$ 9,060	2%
DESIGN	\$ 239,154.19	57%
PHASING AND CTC	\$ 12,352	3%
UTILITY CLEARANCE / COORDINATION	\$ 14,088.38	3%
ENVIRONMENTAL	\$ 5,379	1%
MANAGEMENT + COORDINATION	\$ 53,125	13%
SUSTAINABILITY	\$ 1,670	0%
PUBLIC OUTREACH	\$ 7,222	2%
COORDINATION MEETINGS	\$ 39,464	9%
VENDORS	\$ 17,033	4%
ADDITIONAL SERVICES	\$ -	0%
REIMBURSABLES	\$ 9,432	2%
Totals	\$ 422,676	



CCD Project CE93007 Amendment 1 - Project 2 - Broadway Atoms to Mississippi
Date: 1/10/2017 1:00 PM
By: Jeanne Sharps, P.E.

Address: 600 S. Spangour Way, Suite 600, Centralia, CO 80111
Phone: 303.721.1440

Table with 17 columns: Tasks, Principal I, Associate, Senior Environmental Scientist or Planner, Engineer, Environmental Scientist or Planner, V, Engineer, Environmental Scientist or Planner, IV, Engineer, Environmental Scientist or Planner, III, Engineer, Environmental Scientist or Planner, II, Engineer, Environmental Scientist or Planner, I, Senior Designer & Engineer, Designer IV, Designer III, Designer II, Designer I, Administrative, Totals. Each cell contains numerical data for hours and fees.



CCD Project CE93007 Amendment 1 - Project 2 - Broadway Ations to Mississippi
 Date: 11/18/2021 - Labor
 Address: 6900 S. Syracuse Way, Suite 600, Centennial, CO 80111
 By: Jeanne Sharps, P.E.

Tasks	Principal I		Associate		Senior Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Senior Designer & Project Manager		Designer IV		Designer III		Designer II		Designer I		Administrative		Totals			
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee		
18. <u>Scoping</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. <u>Design</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. <u>Construction</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Totals	17	2,711.35	32	4,744.32	410	56,598.43	132	18,870.32	372	4,214.40	100	8,102.00	95	5,153.08	92	9,811.62	24	3,170.64	244	5,242,953.03	104	8,102.30	12	5,757.52	189	26,177.63	939	127,273.88



**FELSBERG
HOLT &
ULLEVIG**

engineering paths to transportation solutions

CCD Project CE93007 Amendment 1 - Project 2 - Broadway Arizona to Mississippi Fee Worksheet - Reimbursables

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.50	300	\$ 150.00
Parking	Each	*	10	\$ 100.00
Plotting Bond	SF	\$ 0.24	400	\$ 96.00
Copies Black & White	Each	\$ 0.08	15,000	\$ 1,200.00
Copies Color	Each	\$ 0.19	800	\$ 152.00
Foam Core Exhibit Mounting Board	SF	\$ 1.22	36	\$ 43.92
Postage for Major Mailings	Each	*		\$ 200.00
Projector Use	Each	\$ 100.00	3	\$ 300.00
Meeting Facility Rental	Each	*	1	\$ 600.00
Catering for Public Meetings	Each	*	1	\$ 300.00
Field Supplies for Materials Testing	Each	*		\$ -
Couriers	Each	*	10	\$ 500.00
Overnight Deliveries	Each	*		\$ -
Total				3,641.92

* At actual cost

Vendors	Cost
Total	-

Additional Services	Cost
Total	-

Project 2

DESIGNWORKSHOP

CCD Project CE93007 - Projects 1, 2 and 3 Final Design

Fee Worksheet - Summary

Date: 10/18/2011 Address: 1390 Lawrence St., Denver, CO 80206
By: Allyson Mendenhall Phone: 303-623-5186

Summary		
Design Workshop		
Project 1 Labor	\$ 171,970.00	\$57,323.33 per project
Reimbursables	\$ 5,043.36	\$1,681.12 per project
subtotal	\$ 177,013.36	\$59,004.45 per project
Vendors		
Hydrosystems KDI--Project 1 Labor	\$ 6,750.00	
Hydrosystems KDI--Project 1 Reimbursables	\$ 250.00	
	\$ -	
	\$ -	
	\$ -	
subtotal	\$ 7,000.00	\$2,333.33 per project
Total	\$ 184,013.36	\$61,337.79 per project

Project 2



CCD Project CE93007 - Projects 1, 2 and 3 COMBINED Final Design

Fee Worksheet - Labor

Date: 10/18/2011

By: Allyson Menderhall

Address: 1310 Lawrence Street, Denver, CO 80204

Phone: 301-423-5186

Tasks	Principal (Johnson)		Associate (Menderhall)		Project Landscape Architect (John Sperry)		Quality Management (James Fogli)		Project Assistant (Heather Pittman)		Project Graphic Designer (Nino Piro)		Totals	
	Hours	Rate \$225.00	Hours	Rate \$150.00	Hours	Rate \$110.00	Hours	Rate \$150.00	Hours	Rate \$80.00	Hours	Rate \$130.00	Hours	Fee
A. Site/Scope and Landscape Design	30	\$ 6,750.00	30	\$ 4,500.00	140	\$ 15,400.00	8	\$ 1,200.00	70	\$ 5,600.00	0	\$ -	1028	\$ 118,650.00
- 50% Site/Scope and Landscape Design Plans + Specifications														
- 100% Specifications and Landscape Design Plans + Specifications	3	\$ 675.00	0	\$ 0.00	80	\$ 8,800.00	4	\$ 600.00	0	\$ 0.00	0	\$ -	131	\$ 11,875.00
- Utility Calculations and Tabulations for 90%, final and 100% reviews	1	\$ 225.00	4	\$ 600.00	20	\$ 2,200.00	4	\$ 600.00	4	\$ 320.00	0	\$ -	33	\$ 3,945.00
- Post-CR and final plan changes	2	\$ 450.00	6	\$ 900.00	40	\$ 4,400.00	2	\$ 300.00	4	\$ 320.00	0	\$ -	54	\$ 6,410.00
16. Public Outreach and Information														
- Meeting with City Council														
- Develop and Distribute Project Newsletter / Mailer														
- Website														
- Project Simulations														
- Meetings with City Council														
- Exhibits and Presentations to Neighborhood & Business Groups	2	\$ 450.00	5	\$ 750.00	35	\$ 3,850.00		\$ -	0	\$ 0.00	0	\$ -	42	\$ 5,050.00
- Exhibits for Presentations to Public Works Management														
- Individual Meetings with Property and Business Owners														
- Community Meetings, Exhibits + Materials														
17. Multi Agency Involvement & Coordination														
- Coordinate Consensus Build with Outside Agencies	0	\$ -	0	\$ -	0	\$ -		\$ -	0	\$ 0.00	0	\$ -	0	\$ -
- Coordinate with Project Stakeholders														
- Multi-Agency Related Coordination Meetings, Exhibits + Materials	3	\$ 675.00	3	\$ 450.00	3	\$ 330.00		\$ -	1	\$ 80.00	0	\$ -	10	\$ 1,545.00
18. Sustainability														
- Provide sustainability updates by consultants at coordination meetings	0	\$ -	4	\$ 900.00	0	\$ -		\$ -	0	\$ 0.00	0	\$ -	4	\$ 600.00
- Update sustainability matrix at 75% complete design stage	1	\$ 225.00	20	\$ 3,000.00		\$ -		\$ -	0	\$ 0.00	4	\$ 520.00		\$ 3,985.00
- Assist CCD PM to determine categories for CCD Sustainability Planning and Concept Form, including one meeting	1	\$ 225.00	4	\$ 900.00	0	\$ -		\$ -	0	\$ 0.00	0	\$ -	5	\$ 825.00
19. Design Progress/Coordination Meetings														
- Attend Meeting- Consultant Team Coordination Meetings (assumes 12)	15	\$ 3,375.00	30	\$ 4,500.00	30	\$ 3,300.00		\$ -	4	\$ 320.00	0	\$ -	79	\$ 11,535.00
- Attend Meeting- Miscellaneous related to historic mitigation, lighting, aesthetics of structures, water quality (assumes 8)	12	\$ 2,700.00	18	\$ 2,700.00	22	\$ 2,420.00		\$ -	3	\$ 270.00	0	\$ -	55	\$ 8,090.00
Totals	70	\$ 15,750.00	180	\$ 27,000.00	1070	\$ 117,700.00	15	\$ 2,200.00	94	\$ 7,520.00	4	\$ 520.00	1432	\$ 171,970.00

Average hours per month: 5.8 19.0 89.2 1.5 7.8 0.3 1.411 171,970.00 \$ 31,250.00

meetings = \$ 13,080.00

Totals 1 hr/wk for 12 mos. Alyson 3.0 hrs/wk for 6 mos and 1.0 hrs/wk for 6 mos. Jake 3.0 hrs/wk for 6 mos and 1.0 hrs/wk for 6 mos. Heather 2 hrs/wk for 12 mos.

Assumes no explicit credits by DW assumes no illustrative presentations or simulations by DW Assumes 5 exhibits for DW

Over 12 mos. assumes 1 meeting for DW

12 Monthly meetings. Assumes Todd is attend 6 meetings. Alyson attend 12 hours/meeting. Jake to attend 12 meetings. Assume 2.5

9 additional meetings (2 with Heeman, 2 with FHU water quality, 2 with FHU structure, 2 with SSO lighting, 1 with CCD/CCD). Todd to attend 5 meetings. Alyson to attend 7 meetings. Assume 8. DW to provide notes for all landscape specific meetings. assume 8.

1411 \$ 171,970.00 \$ 31,250.00

Labor divided equally among 3 projects

Project 2 DESIGNWORKSHOP

CCD Project CE93007 - Projects 1, 2 and 3 Final Design Fee Worksheet - Reimbursables

Date: 10/18/2011 Address: 1390 Lawrence Street, Denver, CO 80206
By: Allyson Mendenhall Phone: 303-623-5186

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.51	800	\$ 408.00
Parking	Each	\$11	0	\$ -
RTD Light Rail Fare	Each	\$5	12	\$ 36.00
Copies-Black and White (8 1/2" x 11" and 8 1/2" x 14")	Each	\$ 0.15	1,200	\$ 180.00
Copies-Black and White (11" x 17")	Each	\$ 0.30	2,400	\$ 720.00
Copies-Color (8 1/2" x 11" and 8 1/2" x 14")	Each	\$ 1.00	300	\$ 300.00
Copies-Color (11" x 17")	Each	\$ 2.00	300	\$ 600.00
Diazo/Blue/line and Blackline Plots	SF	\$ 1.00	1,080	\$ 1,080.00
Large-Scale Scans	Square Inch	\$ 0.03	6,912	\$ 207.36
Color Plots	SF	\$ 5.00	288	\$ 1,440.00
Couriers	Each	\$ 20.00	3	\$ 60.00
CDs/DVDs	Each	\$ 3.00	4	\$ 12.00
Total			Total	5,043.36

Assumptions

12 monthly mtgs. at FHU x 32 miles roundtrip = 384 miles; miscellaneous site visits and addl. mtgs.
 \$4.50 fare x two people x 4 trips
 100 copies x 12 mos.
 200 copies x 12 mos.
 25 copies x 12 mos.
 25 copies x 12 mos.
 24"x36" (6 sf per) x 15 per month x 12 mos.
 (8) 24" x 36" (864 sq. in.) scans
 24"x36" (6 sf per) x 4 per month x 12 mos.

* At actual cost

Vendors	Cost
Hydrosystems KDI--Reimbursables	\$ 250.00
Hydrosystems KDI--Labor	\$ 6,750.00
Total	7,000.00

Reimbursables and Vendors divided equally among 3 projects

Goodbee

3 Project Segments Summary

	Total Hrs	Average Labor Rate	Total Labor Costs	Total ODC	Grand Total
1 - Broadway Kentucky to South of Tennessee TIP Project	593	107.23	\$ 63,550	\$ 8,432	\$ 71,981
2 - Broadway Mississippi to Arizona Project Final Design	528	107.50	\$ 56,715	\$ 13,232	\$ 69,946
3 - NB I-25 Loop On-Ramp & Water Quality Pond	533	107.67	\$ 57,373	\$ 9,632	\$ 67,004
TOTAL	1653		\$ 177,637	\$ 31,295	\$ 208,932

2,009 \$ 231,392 \$ 31,295 \$ 262,687

3 Project Segments:

- 1 - Broadway Kentucky to South of Tennessee TIP Project;
- 2 - Broadway Mississippi to Arizona Project Final Design
- 3 - NB I-25 Loop On-Ramp & Water Quality Pond;

Task No.	Project Segment	Description of Activities /Assumptions	Princ. Engr (Goodbee)	Senior Project Manager	Staff Project Engr	Project Utility Coordinator	Administrative Assistant/ Tech	Total Hrs	Total Cost		
TASK 1 - PROJECT MANAGEMENT	1	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	\$127.81/hr	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00		7.00	12.00	1,127	
	2	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	0.00	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00		7.00	12.00	1,127	
	3	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	0.00	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00		7.00	12.00	1,127	
		SUBTOTAL	6	0.00	0.00	7.50	21.00	34.50	3,382		
TASK 6 - UTILITY COORDINATION	1	As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600	
		Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 15 meetings). Deliverable - Meeting Minutes	2	18.00	8.00	22.50		50.50	5,580		
		Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐	0.5	2.00	1.00	2.67		6.17	686		
		Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings). Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities.		8.00	4.00	10.17		22.17	2,419		
		Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)		10.00	3.00	10.67		23.67	2,621		
		Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)	1	8.00	2.00	8.67		19.67	2,207		
		Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;		5.00	2.00	6.00		13.00	1,426		
			4.0	55.00	24.00	68.00		150.17	16,540		
		2	As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600
			Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 8 meetings). Deliverable - Meeting Minutes	2	10.00	4.00	12.00		28.00	3,129	
	Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐		0.5	2.00	1.00	2.67		6.17	686		
	Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings). Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities.			8.00	4.00	10.17		22.17	2,419		
	Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)			10.00	3.00	10.67		23.67	2,621		
	Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)		1	8.00	2.00	8.67		19.67	2,207		
	Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;			5.00	2.00	6.00		13.00	1,426		
			4.0	47.00	20.00	58.00		127.67	14,088		
	3		As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600
			Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 15 meetings). Deliverable - Meeting Minutes	2	18.00	8.00	22.50		50.50	5,580	
		Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐	0.5	2.00	1.00	2.67		6.17	686		
		Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings). Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities.		8.00	4.00	10.17		22.17	2,419		
		Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)		10.00	3.00	10.67		23.67	2,621		
Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)		1	8.00	2.00	8.67		19.67	2,207			
Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;			5.00	2.00	6.00		13.00	1,426			
		4.0	55.00	24.00	68.00		150.17	16,540			
			SUBTOTAL	11	157.00	68.00	192.50	0.00	428.00	47,168	
TASK 7 - UTILITY DESIGN		1	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 3 data sheets at 40 scale = 10 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHU and 1 final deliverable)	4	28.00	60.00	84.00		176.00	18,426	
	Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. ☐			15.00	16.00	29.00		60.00	6,370		
	Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 18 potholes)		2	11.00	18.00	27.00		58.00	6,145		
	Create manhole tabulation plan sheet(s) (assume 1 add'l sheet) ☐			5.00	2.00	6.00		13.00	1,426		
	Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)			5.00	2.00	6.00		13.00	1,426		
	Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.			3.00	2.00	3.50		8.50	928		
	Provide utility Quantity Calculations for Dry utilities only;		2	5.00	6.00	10.00		23.00	2,500		
	Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.		2	10.00	4.00	12.00		28.00	3,129		
		10.0	82.00	110.00	178.00	0.00	378.50	40,351			

Goodbee and Associates, Inc.
 CCD Project CE93007
 South Broadway, Arizona to Exposition and I-25 Interchange



Task No.	Project Segment	Description of Activities /Assumptions	Princ. Engr (Goodbee)	Senior Project Manager	Staff Project Engr	Project Utility Coordinator	Administrative Assistant/ Tech	Total Hrs	Total Cost
			\$138.04/hr	\$127.81/hr	\$102.25/hr	\$97.14/hr	\$86.91/hr		
	2	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 2 data sheets at 40 scale = 9 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHJ and 1 final deliverable)	4	26.00	56.00	78.40		164.40	17,217
		Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. □		15.00	16.00	29.00		60.00	6,370
		Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 10 potholes)	2	7.00	10.00	16.00		35.00	3,747
		Create manhole tabulation plan sheet(s) (assumes 1 add'l sheets) □		5.00	2.00	6.00		13.00	1,426
		Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)		5.00	2.00	6.00		13.00	1,426
		Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.		3.00	2.00	3.50		8.50	928
		Provide utility Quantity Calculations for Dry utilities only;	2	5.00	6.00	10.00		23.00	2,500
		Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.	2	10.00	4.00	12.00		28.00	3,129
			10.0	76.00	96.00	161.00	0.00	344.90	36,744
	3	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 1-2 data sheets at 40 /50 scale = 8 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHJ and 1 final deliverable)	4	22.00	48.00	67.20		141.20	14,800
		Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. □		15.00	16.00	29.00		60.00	6,370
		Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 12 potholes)	2	8.00	12.00	19.00		41.00	4,371
		Create manhole tabulation plan sheet(s) (assumes 1 add'l sheets) □		5.00	2.00	6.00		13.00	1,426
		Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)		5.00	2.00	6.00		13.00	1,426
		Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.		3.00	2.00	3.50		8.50	928
		Provide utility Quantity Calculations for Dry utilities only;	2	5.00	6.00	10.00		23.00	2,500
		Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.	2	10.00	4.00	12.00		28.00	3,129
			10.0	73.00	92.00	163.00	0.00	327.70	34,951
		SUBTOTAL	30	231.00	300.00	491.10	0.00	1,052.10	112,046
TASK 19 - DESIGN PROGRESS/ COORDINATION MEETING	1	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting. Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting)		0.00	0.00	8.00		8.00	777
			2.0	15.00	7.00	27.00	0.00	51.00	5,532
	2	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting. Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting) - NOT INCLUDED IN THIS SCOPE		0.00	0.00	0.00		-	-
			2.0	15.00	7.00	19.00	0.00	43.00	4,755
	3	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting. Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting) - NOT INCLUDED IN THIS SCOPE		0.00	0.00	0.00		-	-
			2.0	15.00	7.00	19.00	0.00	43.00	4,755
		SUBTOTAL	6	45.00	21.00	65.00	0.00	137.00	15,041
TOTAL LABOR			53	433.00	389.00	756.10	21.00	1,651.60	177,637

Prev. hrs 2,009.00

Project Item	Units	# of Units	Unit Price	Subtotal	
Mileage	Total miles for all three project (3000 per project)	miles	9000.00	0.56	4995.00
1	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	10.00	600.00	6000.00
2	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	18.00	600.00	10800.00
3	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	12.00	600.00	7200.00
	Total miles for all three project (3000 per project) - Projects 1 through 3	LS	3.00	0.00	0.00
	Parking - Projects 1 through 3	LS	3.00	600.00	1800.00
	Reproduction - Projects 1 through 3	LS	3.00	500.00	500.00
TOTAL ODCs					\$ 31,295.00

TOTAL ESTIMATE \$ 177,637.00 + \$ 31,295.00 = \$ 208,932.00

Goodbye assumptions

1. Per our meeting discussion, I reviewed the hours for one-on-one meeting with utility owners and feel that the hours provided are necessary to discuss and resolve the potential impacts identified. These meeting can be combined from one segment to another, however it doesn't change the amount of effort to discuss issues therefore just resulting to a longer meeting. For budgeting purposes, I have left these as is.
2. In regards to question on what the pothole effort includes: The pothole rate includes the coordination time on locates, minor traffic plan approval and control (Major NOT included), permits, standard excavation of a pothole up to 8' deep, core drills of asphalt and/or concrete and backfill and road patching as needed and slight contingency to cover miss locates which accounts for a second hole as well as potential difficult excavations i.e. rocks, etc.



CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Summary

Date: 10/19/2011 Address: 8000 S. Chester Street, Suite 200, Centennial, CO 80112
 By: Rome/Beresford Phone: 303.220.6400

	Phase 1	Phase 2	Phase 3	Total
Summary				
Noite Associates, Inc.				
Labor	\$ 107,419.50	\$ 66,279.50	\$ 69,324.50	\$ 243,023.50
Reimbursables	\$ 1,607.30	\$ 964.38	\$ 642.92	\$ 3,214.60
subtotal	\$ 109,026.80	\$ 67,243.88	\$ 69,967.42	\$ 246,238.10
Vendors				
ALTUS TRAFIC (Traffic Control)	1800	1800	1800	\$ 5,400.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
subtotal				\$ 5,400.00
Total				\$ 251,638.10

Project 1 total = \$110,826.80
 Project 2 total = \$69,043.88
 Project 3 = \$71,767.42

CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Labor Rev 5

Date: 10/19/2011

By: Ronel Barriosford

Tasks	Associate			Engineering Manager			Senior Engineer			Associate Engineer			Assistant Engineer				
	Hours	Rate: \$106.50	Fee	Hours	Rate: \$154.00	Fee	Hours	Rate: \$135.00	Fee	Hours	Rate: \$112.50	Fee	Hours	Rate: \$106.50	Fee		
2. Survey																	
- Prepare Final Field Book, Maps, Utility, Subsurface Investigation																	
- Extract Additional Information from 2010 Survey																	
- Obtain Right of Entry Permit for both survey and geotech																	
- Obtain Right of Access Permit for both survey and geotech																	
- Update TOPCO CAD File																	
- Update DTM																	
- Assist Geotech with Existing Utility Base File Update																	
- Assist Geotech with Utility Base File Update																	
- Survey Related Coordination Meeting (1 meeting)																	
2A. Right of Way																	
- Obtain Right of Way and Easements for CE 1.5 Grading Limits																	
- Prepare ROW Plans																	
- ROW Related Coordination Meeting (2 meetings)																	
7. Utility Design																	
- Conduct Utility Design + Conflict Summary / Study																	
- Prepare Preliminary Location and Log Plan Sheets																	
- Prepare Preliminary Location and Log Plan Sheets																	
- Prepare Preliminary Utility Design + Specifications																	
- 50% and Final VMT Utility Quantities and Evaluations																	
- 50% and Final VMT Utility Quantities and Evaluations																	
18. Hydrology and Hydraulic Analysis & Design																	
- Quantity Calculations and Evaluations																	
- Quantity Calculations and Evaluations																	
- Design Output Related Coordination Meetings, Exhibits + Minutes																	
11. Water Quality Analysis & Design																	
- Prepare Water Quality Analysis + Specifications																	
- Water Quality Design Related Coordination Meetings + Minutes																	
17. Multi Agency Involvement & Coordination																	
- Coordinate with Project Stakeholders																	
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes																	
18. Design Coordination																	
- Design Coordination Meetings, Exhibits + Minutes																	
- Appendices																	
- Appendix																	
- Appendix																	
- Multi-Agency																	
Totals	30	0		175	74	11,420.00	234	142	133	71,820.00	0	0	0	138	84	60	32,131.00



CCD Project CE93007 - TIP Project Final Design + Cor
 Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBaresford

Tasks	Junior Engineer			Survey Manager			Senior Surveyor			Associate Surveyor		
	Hours	Rate: \$34.00	Fee	Hours	Rate: \$138.00	Fee	Hours	Rate: \$118.00	Fee	Hours	Rate: \$34.00	Fee
2. Survey												
- Prepare Survey and Survey Plans (Utility, Subsurface Investigation)												
- Extract Additional Information from 2011 Survey												
- Obtain Right-of-Way Permits (for both survey and geotech)												
- Update TOPO CAD File												
- Update DTM												
- Assist Geotechnical with Existing Utility Base File Update												
- Survey Related Coordination Meeting (1 meeting)												
2A. Right-of-Way												
- Survey Right-of-Way and Easements for CE/LE Cracking Limits												
- Prepare ROW Plans												
- ROW Related Coordination Meeting (2 meetings)												
7. Utility Design												
- Conduct Utility Design + Conduct Summary / Evals												
- Prepare Project Location and Log Plans Sheets												
- Prepare Utility Design + Specifications												
- 50% and Final VPI Utility Quantities and Easements												
- 50% and Final VPI Utility Design + Plans + Specifications												
10. Hydrology and Hydraulic Analysis & Design												
- Quantity Calculations and Publications												
- Drainage Design Related Coordination Meetings, Exhibits + Minutes												
11. Water Quality Analysis & Design												
- Develop Water Quality Design + Plans + Specifications												
- Water Quality Design Related Coordination Meetings + Minutes												
17. Multi Agency Environment & Coordination												
- Coordinate with Project Stakeholders												
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes												
18. Design Production												
- Appendices												
- Utility Calculations/Graphs												
- Meeting Minutes												
Totals	20		4,700.00	10		26,118.00	3		1,046.50	105		23,388.00



CCD Project CE93007 - TIP Project Final Design + Cor
 Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBarralford

Tasks	2 Person Field Crew											
	Rate: \$140.00						Total					
	1	2	3	4	5	6	7	8	9	10	11	12
2. Survey	3	17,845.50	\$	14,657.50	\$	13,753.50	\$	45,996.50				
* Prepare Center and Survey Lines (Utility, Subsurface Investigation)	3			1,600.00	\$	1,600.00	\$	4,800.00				
* Locate Additional Information from 2011 Survey	3	1,028.00	\$	840.00	\$	840.00	\$	2,508.00				
* Obtain Right-of-Way Permit (for both survey and photo)	6	600.00	\$	600.00	\$	600.00	\$	3,600.00				
* Obtain Right-of-Way Permit (for both survey and photo)	6	600.00	\$	600.00	\$	600.00	\$	3,600.00				
* Update LOTO CAD File	17	1,686.00	\$	1,686.00	\$	1,686.00	\$	14,331.00				
* Update ETM	14	1,644.00	\$	1,644.00	\$	1,644.00	\$	4,212.00				
* Assist Coordinates with Existing Utility Base File Update	18	3,870.00	\$	2,886.00	\$	2,886.00	\$	16,638.00				
* Assist Coordinates with Existing Utility Base File Update	18	3,870.00	\$	2,886.00	\$	2,886.00	\$	16,638.00				
* Survey Related Coordination Meeting (1 meeting)	6	696.00	\$	696.00	\$	696.00	\$	4,176.00				
2A. Right-of-Way	5	9,792.00	\$	9,792.00	\$	9,792.00	\$	48,960.00				
* Obtain Right-of-Way Permits for (CET) & Grading (Earth)	5			4,400.00	\$	4,400.00	\$	22,000.00				
* Obtain Right-of-Way Permits for (CET) & Grading (Earth)	5			4,400.00	\$	4,400.00	\$	22,000.00				
* R/WY Related Coordination Meeting (2 meetings)	10	1,992.00	\$	1,992.00	\$	1,992.00	\$	19,920.00				
7. Utility Design	3	27,396.00	\$	25,811.00	\$	21,317.00	\$	69,524.00				
* Conduct Utility Design + Conduct Summary / Revisions	3			9,445.00	\$	9,445.00	\$	28,335.00				
* Prepare Project Location and Log/Job Details	6	9,818.00	\$	9,818.00	\$	9,818.00	\$	58,908.00				
* Prepare Material Log/Job Sheet	6	13,565.00	\$	8,973.00	\$	8,973.00	\$	27,511.00				
* Obtain Right-of-Way Permit (for both survey and photo)	110	4,109.00	\$	4,109.00	\$	4,109.00	\$	451,990.00				
* 50% and Final VPI Utility Quantities and Evaluations	32	27,396.00	\$	27,396.00	\$	27,396.00	\$	876,672.00				
* 50% and Final VPI Utility Quantities and Evaluations	32	27,396.00	\$	27,396.00	\$	27,396.00	\$	876,672.00				
18. Hydrology and Hydraulic Analysis & Design	6	13,113.00	\$	8,057.00	\$	3,849.00	\$	25,019.00				
* Quantity Calculations and Evaluations	6			2,100.00	\$	2,100.00	\$	12,600.00				
* Quantity Calculations and Evaluations	6			2,100.00	\$	2,100.00	\$	12,600.00				
* Drainage Design Related Coordination Meeting, Exhibits + Minutes	42	6,057.00	\$	6,057.00	\$	6,057.00	\$	253,884.00				
11. Water Quality Analysis & Design	5							19,833.00				
* Obtain Final Water Quality + Storm + Specifications	5							39,666.00				
* Obtain Final Water Quality + Storm + Specifications	5							39,666.00				
* Water Quality Design Related Coordination Meeting, Exhibits + Minutes	36	1,872.00	\$	859.00	\$	859.00	\$	30,720.00				
17. Multi Agency Environment & Coordination	3							839.00				
* Coordinate with Project Stakeholders	3							1,678.00				
* Multi-Agency Related Coordination Meeting, Exhibits + Minutes	13							10,913.00				
19. Design	88	13,409.00	\$	13,409.00	\$	13,409.00	\$	118,280.00				
* Appendix	10	1,840.00	\$	1,840.00	\$	1,840.00	\$	18,400.00				
* Appendix	10	1,840.00	\$	1,840.00	\$	1,840.00	\$	18,400.00				
* Meeting Minutes	22	3,388.00	\$	3,388.00	\$	3,388.00	\$	74,536.00				
* Meeting Minutes	22	3,388.00	\$	3,388.00	\$	3,388.00	\$	74,536.00				
Totals	48	32	26	20	3	13,784.00	\$	69,374.50	\$	69,374.50	\$	243,322.50

\$19,933.00 carried forward to hydrology and drainage in overall consultant fee



**CCD Project CE93007 - TIP Project Final Design + Cor
Fee Worksheet - Labor Rev 5**

Date: 10/19/2011
By: RonelBarnesford

Tasks	
2. Survey	<ul style="list-style-type: none"> - Perform Survey of Right of Way, Manholes, Utilities, Subsurface Investigation - Extract Additional Information from 2010 Survey - Obtain Right-of-Way Permits (for both survey and geotech) - Set-up Survey Station - Update TOPO CAD File - Update DTM - Assist Geotech with Existing Utility Base File Update - Assist Geotech with New Utility Base File Update - Survey Related Coordination Meeting (1 meeting)
2A. Right-of-Way	<ul style="list-style-type: none"> - Survey Right of Way and Discrepancies for C&E L5 Grading Limits - Prepare ROW Plans - ROW Related Coordination Meeting (2 meetings)
7. Utility Design	<ul style="list-style-type: none"> - Conduct Utility Design + Conflict Summary / Lists - Prepare Proposed Location and Log Path Sheets - Prepare Member Log Path Sheet - 50% and Final VTI Utility Design + Plans + Specifications - 50% and Final VTI Utility Quantities and Elevations - 50% and Final VTI Utility Details
10. Hydrology and Hydraulic Analysis & Design	<ul style="list-style-type: none"> - Storm Drainage Design - Storm Drainage Design, 4 Plans + Specifications - Drainage Design Related Coordination Meetings, Exhibits + Minutes
11. Water Quality Analysis & Design	<ul style="list-style-type: none"> - Storm Drain Water Quality - Storm Drain Water Quality Design + Plans + Specifications - Water Quality Design Related Coordination Meetings + Minutes
17. Multi Agency Environment & Coordination	<ul style="list-style-type: none"> - Coordinate with Project Stakeholders - Multi-Agency Related Coordination Meetings, Exhibits + Minutes
18. Design and Construction Administration	<ul style="list-style-type: none"> - Design and Construction Administration - Appendices - Working Models/Graphics - Meeting Minutes
Totals	

Assumes required allocation of water Broadway to Lincoln along Mississippi. Depressions at 5 locations & hydrant relocation, documentation for tap location, stub service at Kentucky and Tennessee, reconfiguration at loop pump area for Storm Collection area
 Water Sheet Court 4 sheets + Details
 Storm Sheet Court 1 Sheet + Details
 Assumes Removal and replacement of Brick Lined Sewer along Broadway, New Storm along Broadway, Vault reconstruction in Mississippi/Broadway Intersection due to elevation adjustment, New Vault for East Side service, Local service connection at Ohio. Assume future expor
 Storm Sheet Court 7 plan view, 7 profile view, 4 details including outlet structures/elevations
 Assume the Grading associated with Pond area exporable above VSE 2 sheets



CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Reimbursables

Date: 10/19/2011

Address: 8000 S. Chester Street, Suite 200, Centennial, CO 80112

By: Rome

Phone: 303.220.6400

Reimbursables	Unit	Cost Per Unit	Number	Cost Total	Cost Phase 1	Cost Phase 2	Cost Phase 3
Mileage	Miles	\$ 0.50		\$ -	\$ -	\$ -	\$ -
Parking	Each	*	30	\$ 360.00	\$ 180.00	\$ 108.00	\$ 72.00
Plotting Bond	SF	\$ 0.24	3,200	\$ 768.00	\$ 384.00	\$ 230.40	\$ 153.60
Copies Black & White	Each	\$ 0.08	8,000	\$ 640.00	\$ 320.00	\$ 192.00	\$ 128.00
Copies Color	Each	\$ 0.19		\$ -	\$ -	\$ -	\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22	120	\$ 146.40	\$ 73.20	\$ 43.92	\$ 29.28
Postage for Major Mailings	Each	*	1	\$ 0.20	\$ 0.10	\$ 0.06	\$ 0.04
Project Use	Each	\$ 100.00		\$ -	\$ -	\$ -	\$ -
Meeting Facility Rental	Each	*		\$ -	\$ -	\$ -	\$ -
Catering for Public Meetings	Each	*		\$ -	\$ -	\$ -	\$ -
Field Supplies for Materials Testing	Each	*	1	\$ 100.00	\$ 50.00	\$ 30.00	\$ 20.00
Couriers	Each	*	20	\$ 1,000.00	\$ 500.00	\$ 300.00	\$ 200.00
Overnight Deliveries	Each	*	10	\$ 200.00	\$ 100.00	\$ 60.00	\$ 40.00
Total				\$ 3,214.60	\$ 1,607.30	\$ 964.38	\$ 642.92

* At actual cost

Vendors	Cost
ALTUS TRAFFIC (Traffic Control)	\$ -
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-



TRAFFIC CONTROL PROPOSAL

May 2nd 2011

To: Nolte Vertical Five
Attn: Charles Beresford
Re: Traffic Control Proposal: Broadway

ALTUS Traffic provides personalized full-service traffic management, 24 hrs a day 365 days a year. Altus Traffic's all-inclusive rate structure, offers the following key components:

- Risk analysis / Job Safety Site Audits
- Road authority negotiations / notifications / assessments (Obtaining Permits)
- Emergency notifications
- Services notification (buses / trains)
- Necessary Vehicles and Best in Market Equipment (signs, two-way radios, ppe)
- Qualified Uniformed Traffic Controllers – Para-professionals
- Traffic control – Full implementation and management
- Single & Multiple lane closure.
- Road closures / detours.
- Short term / long term projects.
- Full Job Report on Completion

Item(s)	UOM	Quantity	Unit Price	Total Price
Traffic Control Plans	Each	3.00	\$100.00	\$300.00
1 - Man Crew	Day	3.00	\$500.00	\$1,500.00
<i>Projected Total</i>				\$1,800.00



Conditions

- *Terms – Net 21 Days*
- *Altus reserves the right to increase rates due to and not limited to – Union requirement, material cost and labor cost. Such increases will require 15 day written notice to Nolte Vertical Five , and a signed agreement by both parties.*
- *Estimate provided considering known quantities and conditions. Any changes in quantities and conditions may impact estimate.*
- *A 4 (four) hour minimum on all works*
- *1 – Man Crew Pricing includes 1 (one) person, 1 (one) barricade truck, all cones, signs and barricades needed for the scope of work and 1 (one) arrow board for up to 8 hours worked. If hours exceed 8 for any reason, invoicing will reflect those hours at the hourly rate of \$48.25 per hour.*

Accepted on behalf of Nolte Vertical Five

Signed on behalf of Altus Traffic

.....

.....

Date:.....

Date:.....

Thank You

Nolte Assumptions

- Phase 2-Survey:
 - Obtain Right Of Entry Permits: assumes all ROE permits will be prepared and sent at one time and that property owners will return the additional permits with little follow up from Nolte.
 - Assist Goodbye With Existing Utility File Updates: assumes ALL utility field work can be performed in four 8-hour days or total of 32 field hours including travel time.
 - Potholing (25 holes): assumes all potholing will be performed at one time for the 3 areas.
- Phase 2A-Right-Of-Way:
 - Prepare ROW Plans: assumes one ROW Plan set versus 3.
 - ROW Related Meetings: assumes 2 meetings instead of 3.
- Assumes that Nolte will not have involvement at Public Meetings including Neighborhood Meetings, Public Hearings or Stakeholder presentations
- Assumes that sustainability efforts will be limited to Matrix update at the 60% completion level and Final Plan Completion
- Assumes that the Project deliverable will be presented as a single Phase. Incremental phasing plans will be addressed as an additional service
- Assumes that existing conditions investigation of brick lined sewers and Sanitary Sewer in Mississippi will be available in the first 2 months of the project start to address design limits.
- Assumes that timing for Phase 1 Construction is scheduled to occur in the spring of 2013. Variations from the project that postpone the schedule, cause appreciable variation from the 30% design concept or delays to re-evaluate concepts previously addressed will be considered additional services



CCD Project CE93007 - Summary of 3 Tasks:

Broadway Kentucky to South of Tennessee TIP Project
 Broadway Mississippi to Arizona Project Final Design
 NB I-25 Loop On-Ramp & Water Quality Pond

Fee Worksheet - Summary

Date: Revised September 23, 2011

Address:

By: Nanci Regnier

Phone:

Summary	
Regnier & Associates, Inc.	
Labor Project 1	\$ 3,330.00
Labor Project 2	\$ 3,330.00
Labor Project 3	\$ 3,330.00
Reimbursables	\$ 150.00
subtotal	\$ 10,140.00
Vendors	
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ -
Total	\$ 10,140.00

total per project = \$3,380.00



CCD Project CE93007 - Broadway Mississippi to Arizona Project Final Design

Fee Worksheet - Labor

Date: Revised 9/23/2011
 By: Nanci Regnier

Address: 1600 Glenarm Place #2505, Denver, CO 80202
 Phone: 303-680-6849

Tasks	Principal		Administrative		Vendor		Totals	
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
	Rate: \$120.00		Rate: \$75.00					
1. Project Management								
- General Coordination with CCD PM								
- Monthly Progress Reports & Invoices	1.5	\$ 180.00	3	\$ 225.00			4.5	\$ 405.00
- Develop & Maintain Project Schedule							0	\$ -
- Project Team Coordination	4.5	\$ 540.00					4.5	\$ 540.00
- Assist CCD with CDOT Form 1243 Checklist Items							0	\$ -
- Assemble 90% and Final Plans & Specification Packages							0	\$ -
- 90% and Final Plan and Specification Package Quality Assurance							0	\$ -
- 90% and Final Cost Estimates							0	\$ -
- 90% Plan Review Meeting Prep, Minutes, Response to Questions							0	\$ -
- Prepare Final Project Submittal for CCD							0	\$ -
16. Public Outreach								
- Maintain Primary Public Relations Contact	3	\$ 360.00					3	\$ 360.00
- Maintain Stakeholder Contact Database			3	\$ 225.00			3	\$ 225.00
- Develop and Distribute Project Newsletter / Mailer							0	\$ -
- Maintain a Project Website	8	\$ 1,000.00					8	\$ 1,000.00
- Project Simulations							0	\$ -
- Meetings with City Council	3	\$ 320.00					3	\$ 320.00
- Exhibits and Presentations to Neighborhood & Business Groups							0	\$ -
- Exhibits for Presentations to Public Works Management							0	\$ -
- Individual Meetings with Property and Business Owners							0	\$ -
- Public Outreach Related Coordination Meetings, Concalls + Minutes	1	\$ 160.00					1	\$ 160.00
Totals	24	\$ 2,880.00	6	\$ 450.00			30	\$ 3,330.00



Regnier

& Associates, Inc.

CCD Project CE93007 - Broadway Mississippi to Arizona Project Final Design

Fee Worksheet - Reimbursables

Date: Revised September 23, 2011

Address: 1600 Glenarm Place #2505, Denver, CO 80202

By: Nanci Regnier

Phone: 303-680-6849

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.50	100	\$ 50.00
Parking	Each	*		\$ -
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08		\$ -
Copies Color	Each	\$ 0.19		\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		\$ -
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		\$ -
Catering for Public Meetings	Each	*		\$ -
Field Supplies for Materials Testing	Each	*		\$ -
Couriers	Each	*		\$ -
Overnight Deliveries	Each	*		\$ -
Total				50.00

* At actual cost

Vendors	Cost
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-



**CCD Project CE93007 - 3 Project Segments + Construction Support
Fee Worksheet - Summary**

Date: 10/20/2011 Address: 3025 South Parker Rd. Suite 1100, Aurora
By: Sandra Scanlon Phone: 303-696-2602

Summary	
SSSG MEP, Inc.	
Labor Package #1	\$ 33,121.45
Reimbursables Package #1	\$ 351.42
Optional Construction Support Pkg #1	\$ -
subtotal	\$ 33,472.87
Labor Package #2	\$ 18,465.79
Reimbursables Package #2	\$ 351.42
Optional Construction Support Pkg #2	\$ -
subtotal	\$ 18,817.21
Labor Package #3	\$ 15,415.09
Reimbursables Package #3	\$ 351.42
Optional Construction Support Pkg #3	\$ -
subtotal	\$ 15,766.51
Vendors	
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ -
Total w CA	\$ 68,056.59



Pkg 2

**CCD Project CE93007 - Broadway Mississippi to Arizona Project + Optional Construction Support
Fee Worksheet - Reimbursables**

Date: 10/20/2011 Address: 3025 South Parker Rd. Suite 1100, Aurora, CO 80014
By: Sandra Scanlon Phone: 303-696-2602

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.51	200	\$ 102.00
Parking	Each	\$ 12.00	8	\$ 96.00
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08	75	\$ 6.00
Copies Color	Each	\$ 0.19	18	\$ 3.42
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		
Catering for Public Meetings	Each	*		
Field Supplies for Materials Testing	Each	*		
Couriers	Each	\$ 12.00	12	\$ 144.00
Overnight Deliveries	Each	*		
Total				351.42

* At actual cost



CCD Project CE03007 - Broadway Mississippi to Arizona Project - Optional Construction Support
Fee Worksheet - Labor
 Date: 10/20/2011
 By: Sandra Scanlon

Address: 3025 South Parker Rd. Suite 1100, Aurora, CO 80014
 Phone: 303-696-3002

Page 2

Tasks	Principal - Scanlon		Engineer - Thorpe		CAD Designer - Clark, Johnson		Administrative - Gibbs		Totals	
	Hours	Rate \$ 167.63	Hours	Rate \$ 109.18	Hours	Rate \$ 83.81	Hours	Rate \$ 57.73	Hours	Rate
13. Electrical and Lighting Analysis & Design										
- Coordination of lighting removals and resets in water										
- qualify pond Area										
- Any Structural base design for FHJ in this phase? No										
- Pedestrian lighting equipment selection is done, no modifications in FOR										
- Roadway lighting equipment is specified MH and luminaire										
- Purchase luminaire & 10' max arm										
- Provide a lighting layout with a complete metered system for pedestrian lights, ITS eqm, HALO cameras, and traffic signals. Flat rate cost for street lights with branch circuits by the EC of this contract, due to Federal Funding.										
- Coordination with electrical utility and utility consultant re										
- Coordinate the installation requirements for one HALO camera, design electrical provisions	1	\$ 168	3	\$ 318	2	\$ 168			6	\$ 653.73
- 90% Lighting Design + Plans + Specifications. New (3 plans and removals (3 plans)			2	\$ 212					2	\$ 212.32
- 100% Lighting Design + Plans + Specifications. New			60	\$ 6,370	40	\$ 3,352			100	\$ 9,722.00
- 90% Quantity Calculations and Tabulations			16	\$ 1,699	10	\$ 838			26	\$ 2,536.66
- 100% Quantity Calculations and Tabulations			6	\$ 637	4	\$ 335			10	\$ 972.20
- 90% and 100% Develop Lighting and Electrical SOW			3	\$ 318					3	\$ 318.48
- Opinion of Probable Cost			0	\$ 0					0	\$ 0
- O&M process	3	\$ 1,341	4	\$ 425	4	\$ 335			16	\$ 2,100.92
- Coordination with Design Team			12	\$ 1,274					12	\$ 1,733.92
- Coordination with Design Services			3	\$ 318.48			4	\$ 252.92	7	\$ 699.49
14. Construction Phasing & Detail Design										
- Assume no lighting design impact										
15. Construction Traffic Control										
- Plans										
- Quantity Calculations and Tabulations										
16. Public Outreach and Information										
- Maintain Primary Public Relations Contact										
- Maintain Stakeholder Contact Database										
- News and Distribute Project Newsletter / Mailer										
- Project Website										
- Project Simulation										
- Meetings with City Council										
- Business Groups										
- Management										
- Owners										
- Contribute photos for Exhibits										
17. Multi Agency Involvement & Coordination										
- Coordinate/Consensus Build with Outside Agencies										
- Coordinate with Project Stakeholders										
- One Multi-Agency Related Coordination Meeting										
18. Sustainability										
- Maintain and Update Sustainability Matrix										
- No Further analysis of Solar and/or LED lighting sources										
19. Design Meetings										
- Design Meetings										
- Agenda										
- Meeting Handouts/Graphics										
- Meeting Minutes										
23. Additional Services										
- NA										
Totals	3	\$ 1,565.67	110	\$ 11,877.60	60	\$ 5,028.60	4	\$ 252.92	183	\$ 18,465.79
	5%	8%	60%	63%	33%	27%	2%	1%	100%	100%

Assumptions by SSGMEP

most of work is in package 1
 assume 1 camera per package

I deleted these since this should just come from tabs
 split among 3 packages for 12 months of reporting

Pkg 2		Broadway Mississippi to Arizona Project		
		Sheet number	description	hours per sheet
		1 LT-1	cover sheet	12.2
		2 LT-2	map key	12.2
		3 LT-49	luminaire schedule	12.2
		4 LT-50	luminaire schedule	12.2
		5 LT-03	plan sheet	12.2
		6 LT-26	plan sheet	12.2
		7 LT-04	plan sheet	12.2
		8 LT-27	plan sheet	12.2
		9 LT-12	plan sheet	12.2
		10 LT-35	plan sheet	12.2
		11 LT-?	details	12.2
		12 LT-?	details	12.2
		13 LT-?	panel schedules	12.2
		14 LT-?	panel schedules	12.2
total sheets		15 LT-?	tabs	12.2
total hours	183			183



CCD Project CE93007 - Project 2 Final Design

Broadway, Mississippi to Arizona & Mississippi Intersection

Fee Worksheet - Summary

Date: 9/22/2011

Address:

5700 E. Evans Ave, Denver, CO 80222

By: Mike Kiefer, Yeh and Associates, Inc.

Phone:

303-781-9590

Summary	
Yeh and Associates, Inc.	
Labor	\$ 9,433.60
Reimbursables	\$ 311.00
subtotal	\$ 9,744.60
Vendors	
Drilling Subcontract	\$ 1,100.00
Traffic Control	\$ 1,000.00
Outside Laboratory	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ 2,100.00
Total	\$ 11,844.60



CCD Project CE93007 - Project 2 Final Design
Broadway, Mississippi to Arizona & Mississippi Intersection

Fee Worksheet - Labor

Date: 9/22/2011
 By: Mike Kiefer, Yeh and Associates, Inc.
 Address: 5700 E. Evans Ave., Denver, CO 80222
 Phone: 303.781-9590

Tasks	Principal		Project Manager		Senior Engineer, Environmental Scientist or Planner		Project Engineer, Environmental Scientist or Planner		Staff Engineer, Environmental Scientist or Planner		Laboratory Technician		Drafter		Totals	
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
3. Geotechnical Investigation & Permit Design																
- Submit Allowance for Construction (Test Holes + Laboratory Tests)																
- Obtain Street Occupancy Permits																
- Traffic Control for Geotech Investigation																
- Coordinate Survey of Test Holes																
- Final Foundation Recommendation																
- Final Geotechnical Design																
- Final Geotech Report																
- Prepare Test Hole CAD Reference File																
- Prepare Geotechnical Test Hole Location Map Plan Sheets																
- Prepare Boring Log Information Plan Sheets																
- Geotechnical/Pavement Design Related Coordination Meetings																
Totals	0	\$ -	30	\$ 4,160.00	0	\$ -	41	\$ 3,695.00	8	\$ 613.60	2	\$ 120.00	10	\$ 665.20	91	\$ 9,453.80



CCD Project CE93007 - Project 2 Final Design

Broadway, Mississippi to Arizona & Mississippi Intersection

Fee Worksheet - Reimbursables

Date: xx 9/22/2011

Address: 5700 E. Evans Ave, Denver, CO 80222

By: xx Mike Kiefer, Yeh and Associates, Inc.

Phone: 303-781-9590

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.555	200	\$ 111.00
Parking	Each	*		\$ -
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08		\$ -
Copies Color	Each	\$ 0.19		\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		\$ -
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		\$ -
Catering for Public Meetings	Each	*		\$ -
Field Supplies for Materials Testing	Each	*		\$ 200.00
Couriers	Each	*		\$ -
Overnight Deliveries	Each	*		\$ -
Total				311.00

* At actual cost

Vendors	Cost
Drilling Subcontract	\$ 1,100.00
Traffic Control	\$ 1,000.00
Outside Laboratory	
Total	2,100.00

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-

Project 3

NB I-25 Loop On-Ramp & Water Quality Pond



CCD Project CE93007 Amendment 1

Fee Worksheet Summary Project 3 - Loop Ramp

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

	Fee for Basic Services (Labor)	% of Total Fee for Basic Services (Labor)	*Reimbursable Expenses	Additional Services	Total
Felsburg Holt & Ullevig	\$ 214,145.20	49.58%	\$ 3,641.92		\$ 217,787.12
Design Workshop	\$ 57,323.33	13.27%	\$ 4,014.45	\$ -	\$ 61,337.79
Goodbee & Associates, Inc. (MWBE)	\$ 57,372.58	13.28%	\$ 9,631.67		\$ 67,004.24
Hermesen Consultants (MWBE)		0.00%		\$ -	\$ -
Nolte	\$ 69,324.50	16.05%	\$ 2,442.92	\$ -	\$ 71,767.42
Regnier & Associates, Inc.(MWBE)	\$ 3,330.00	0.77%	\$ 50.00	\$ -	\$ 3,380.00
SSG MEP (MWBE)	\$ 15,415.09	3.57%	\$ 351.42	\$ -	\$ 15,766.51
Two Hundred (MWBE)		0.00%		\$ -	\$ -
Yeh & Associates (MWBE)	\$ 14,977.30	3.47%	\$ 7,877.50	\$ -	\$ 22,854.80
Additional Services		0.00%			\$ -
Totals	\$ 431,888.00	100%	\$ 28,009.88	\$ -	\$ 459,897.88

MWBE Total \$ 91,094.97
% MWBE 21.09%

Note: MWBE % based on labor only.

* Includes Vendors



CCD Project CE93007 Amendment 1 - Project 3 - Loop Ramp

Summary by Task/Sub

Tasks	Totals	% Total	FHU	Design Workshop	Goodbee (MMBE)	Hermesen (MMBE)	Noite	Regnier (MMBE)	SSG MEP (MMBE)	Two Hundred (MMBE)	Yeh (MMBE)
1. Project Management	\$ 46,933.80	10.0%	\$ 45,933.80								
2. Survey	\$ 13,753.50	2.9%	\$ -				\$ 13,753.50				
2A. Right-of-Way	\$ 9,530.00	2.0%	\$ -				\$ 9,530.00				
3. Geotechnical Investigation & Pavement Design	\$ 14,977.30	3.2%	\$ -								
4. Streetscape and Landscape Design	\$ 46,913.33	10.0%	\$ -	\$ 46,913.33							\$ 14,977.30
5. Roadway Design	\$ 48,560.12	10.4%	\$ 48,560.12								
6. Utility Coordination	\$ 16,539.83	3.5%	\$ -		\$ 16,539.83						
7. Utility Design	\$ 57,695.11	12.3%	\$ -		\$ 36,078.11		\$ 21,617.00				
8. Traffic Engineering Design	\$ 16,093.88	3.4%	\$ 15,093.88								
9. Structural Engineering	\$ 26,380.68	5.6%	\$ 25,380.68								
10. Hydrology and Hydraulic Analysis & Design	\$ 9,592.40	2.1%	\$ 5,930.40				\$ 3,662.00				
11. Water Quality Analysis & Design	\$ 44,616.12	9.5%	\$ 24,683.12				\$ 19,933.00				
12. Environmental Services	\$ 5,378.52	1.2%	\$ 5,378.52						\$ 15,415.09		
13. Electrical and Lighting Analysis & Design	\$ 15,415.09	3.3%	\$ -								
14. Construction Phasing & Detour Design	\$ 8,180.00	1.8%	\$ 8,180.00								
15. Construction Traffic Control	\$ 4,171.80	0.9%	\$ 4,171.80					\$ 3,330.00			
16. Public Outreach and Information	\$ 7,221.97	1.5%	\$ 2,208.64	\$ 1,683.33			\$ 829.00				
17. Multi Agency Involvement & Coordination	\$ 6,190.76	1.3%	\$ 4,846.76	\$ 515.00							
18. Sustainability	\$ 1,670.00	0.4%	\$ -	\$ 1,670.00							
19. Design Progress / Coordination Meetings	\$ 30,464.45	6.4%	\$ 20,777.48	\$ 6,541.67	\$ 4,764.64		\$ 7,390.67				
Reimbursables	\$ 9,376.55	2.0%	\$ 3,641.92	\$ 1,691.12	\$ 2,431.67		\$ 642.92	\$ 50.00			\$ 577.50
Vendors	\$ 18,633.33	4.0%	\$ -	\$ 2,333.33	\$ 7,200.00		\$ 1,800.00				\$ 7,300.00
Additional Services	\$ -	0.0%	\$ -	\$ -	\$ -		\$ -				\$ -
Totals	\$ 467,288.55	100.0%	\$ 217,787.12	\$ 61,337.79	\$ 67,004.24	\$ -	\$ 79,158.09	\$ 3,380.00	\$ 15,766.51	\$ -	\$ 22,854.80

	Totals	%
SURVEY	\$ 13,754	3%
ROW	\$ 9,530	2%
DESIGN	\$ 280,244.03	60%
PHASING AND CTC	\$ 12,352	3%
UTILITY CLEARANCE / COORDINATION	\$ 16,539.83	4%
ENVIRONMENTAL	\$ 5,379	1%
MANAGEMENT + COORDINATION	\$ 53,125	11%
SUSTAINABILITY	\$ 1,670	0%
PUBLIC OUTREACH	\$ 7,222	2%
COORDINATION MEETINGS	\$ 38,464	8%
VENDORS	\$ 18,633	4%
ADDITIONAL SERVICES	\$ -	0%
REIMBURSABLES	\$ 9,377	2%
Totals	\$ 467,289	

\$ 76,715.17



CCD Project CE93007 Amendment 1 - Project 3 - Loop Ramp
 Date: 10/04/11
 By: Jeanne Sharps, P.E.

Address: 600 S. Syracuse Way, Suite 600, Centennial, CO 80111
 Phone: 303.721.1440

Tasks	Principal I		Associate		Senior Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Engineer, Environmental Scientist or Planner		Senior Designer & Supervisor / Senior Bridge Designer		Designer IV		Designer III		Designer II		Designer I		Administrative		Totals			
	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate		
16. Construction Traffic Control	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- 90% and Final Construction Traffic Control Design - Plans																												
18. Public Outreach and Information	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Meet with Primary Public Relations Contact																												
- Prepare and Distribute Project Information / Mailer																												
- Meet with Project Stakeholders / Mailer																												
- Meet with Project Stakeholders																												
- Project Evaluations																												
- Meetings with City Council																												
- Establish and Presentations to Neighborhood & Business Groups																												
- Establish for Presentations to Public Works Management																												
- Individual Meetings with Property and Business Owners																												
- Public Outreach Related Coordination Meetings, Exhibits - Minutes																												
19. Multi-Agency Investment & Coordination	2	\$ 1,207	\$ -	\$ 1,164	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Meet with Local Control Agencies																												
- Coordinate with Other Related Agencies																												
- Multi-Agency Related Coordination Meetings, Exhibits - Minutes																												
18. Sustainability	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Meetings and Updates Sustainability Matrix																												
- Presentations to Oversight Council Committee																												
19. Design Progress / Coordination Meetings	8	\$ 1,300	\$ -	\$ 1,166	\$ -	\$ 1,022	\$ -	\$ 941	\$ -	\$ 736	\$ -	\$ 429	\$ -	\$ 429	\$ -	\$ 736	\$ -	\$ 736	\$ -	\$ 736	\$ -	\$ 736	\$ -	\$ 736	\$ -	\$ 736	\$ -	\$ 736
- Attend Meetings																												
- Agencies																												
- Monthly Technical Meetings																												
- Monthly Meetings																												
Totals	16	\$ 3,198.40	108	\$ 88,872.26	409	\$ 80,899.98	132	\$ 16,870.92	380	\$ 44,646.20	104	\$ 9,921.12	68	\$ 5,699.42	73	\$ 7,832.26	264	\$ 324,260.80	112	\$ 9,161.80	0	\$ -	0	\$ -	13	\$ 782.02	8866	\$ 24,146.20



**FELSBERG
HOLT &
ULLEVIG**

engineering paths to transportation solutions

CCD Project CE93007 Amendment 1 - Project 3 - Loop Ramp

Fee Worksheet - Reimbursables

Date: 11/04/11

Address: 6300 S. Syracuse Way, Suite 600, Centennial, CO 80111

By: Jeanne Sharps

Phone: 303-721-1440

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.50	300	\$ 150.00
Parking	Each	*	10	\$ 100.00
Plotting Bond	SF	\$ 0.24	400	\$ 96.00
Copies Black & White	Each	\$ 0.08	15,000	\$ 1,200.00
Copies Color	Each	\$ 0.19	800	\$ 152.00
Foam Core Exhibit Mounting Board	SF	\$ 1.22	36	\$ 43.92
Postage for Major Mailings	Each	*		\$ 200.00
Projector Use	Each	\$ 100.00	3	\$ 300.00
Meeting Facility Rental	Each	*	1	\$ 600.00
Catering for Public Meetings	Each	*	1	\$ 300.00
Field Supplies for Materials Testing	Each	*		\$ -
Couriers	Each	*	10	\$ 500.00
Overnight Deliveries	Each	*		\$ -
Total				3,641.92

* At actual cost

Vendors	Cost
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-

Project 3

DESIGNWORKSHOP

CCD Project CE93007 - Projects 1, 2 and 3 Final Design

Fee Worksheet - Summary

Date: 10/18/2011 Address: 1390 Lawrence St., Denver, CO 80206
By: Allyson Mendenhall Phone: 303-623-5186

Summary		
Design Workshop		
Project 1 Labor	\$ 171,970.00	\$57,323.33 per project
Reimbursables	\$ 5,043.36	\$1,681.12 per project
subtotal	\$ 177,013.36	\$59,004.45 per project
Vendors		
Hydrosystems KDI--Project 1 Labor	\$ 6,750.00	
Hydrosystems KDI--Project 1 Reimbursables	\$ 250.00	
	\$ -	
	\$ -	
	\$ -	
subtotal	\$ 7,000.00	\$2,333.33 per project
Total	\$ 184,013.36	\$61,337.79 per project

Project 3



CCD Project CE93007 - Projects 1, 2 and 3 COMBINED Final Design

Fee Worksheet - Labor

Date: 10/18/2011

By: Allyson Menderhall

Address: 1310 Lawrence Street, Denver, CO 80204

Phone: 301-423-5186

Tasks	Principal (Johnson)		Associate (Menderhall)		Project Landscape Architect (John Sperry)		Quality Management (James Fogli)		Project Assistant (Heather Pittman)		Project Graphic Designer (Nino Piro)		Totals	
	Hours	Rate \$225.00	Hours	Rate \$150.00	Hours	Rate \$110.00	Hours	Rate \$150.00	Hours	Rate \$80.00	Hours	Rate \$130.00	Hours	Fee
A. Site/Scope and Landscape Design	30	\$ 6,750.00	30	\$ 4,500.00	140	\$ 15,400.00	8	\$ 1,200.00	70	\$ 5,600.00	0	\$ -	1028	\$ 118,650.00
- 50% Site/Scope and Landscape Design Plans + Specifications														
- 100% Site/Scope and Landscape Design Plans + Specifications	3	\$ 675.00	0	\$ 0.00	80	\$ 8,800.00	4	\$ 600.00	0	\$ 0.00	0	\$ -	131	\$ 11,875.00
- Utility Calculations and Tabulations for 90%, final and 100% reviews	1	\$ 225.00	4	\$ 600.00	20	\$ 2,200.00	4	\$ 600.00	4	\$ 320.00	0	\$ -	33	\$ 3,945.00
- Post-CR and final plan changes	2	\$ 450.00	6	\$ 900.00	40	\$ 4,400.00	2	\$ 300.00	4	\$ 320.00	0	\$ -	54	\$ 6,410.00
16. Public Outreach and Information														
- Meeting Series Concept														
- Meeting Series Concept														
- Develop and Distribute Project Newsletter / Mailer														
- Website														
- Project Simulations														
- Meetings with City Council														
- Exhibits and Presentations to Neighborhood & Business Groups	2	\$ 450.00	5	\$ 750.00	35	\$ 3,850.00		\$ -	0	\$ 0.00	0	\$ -	42	\$ 5,050.00
- Exhibits for Presentations to Public Works Management														
- Individual Meetings with Property and Business Owners														
- Public Outreach Meetings, Exhibits + Materials														
17. Multi Agency Involvement & Coordination														
- Coordinate Consensus Build with Outside Agencies	0	\$ -	0	\$ 0.00	0	\$ 0.00		\$ -	0	\$ 0.00		\$ -	0	\$ -
- Coordinate with Project Stakeholders														
- Multi-Agency Related Coordination Meetings, Exhibits + Materials	3	\$ 675.00	3	\$ 450.00	3	\$ 330.00		\$ -	1	\$ 80.00		\$ -	10	\$ 1,545.00
18. Sustainability														
- Provide sustainability updates by consultants at coordination meetings	0	\$ -	4	\$ 600.00	0	\$ 0.00		\$ -	0	\$ 0.00		\$ -	4	\$ 600.00
- Update sustainability matrix at 75% complete design stage	1	\$ 225.00	20	\$ 3,000.00		\$ -		\$ -	0	\$ 0.00	4	\$ 360.00		\$ 3,585.00
- Assist CCD PM to determine categories for CCD Sustainability Planning and Concept Form, including one meeting	1	\$ 225.00	4	\$ 600.00	0	\$ 0.00		\$ -	0	\$ 0.00		\$ -	5	\$ 625.00
19. Design Progress/Coordination Meetings														
- Attend Meeting- Consultant Team Coordination Meetings (assumes 12)	15	\$ 3,375.00	30	\$ 4,500.00	30	\$ 3,300.00		\$ -	4	\$ 360.00		\$ -	79	\$ 11,535.00
- Attend Meeting- Miscellaneous related to historic mitigation, lighting, aesthetics of structures, water quality (assumes 8)	12	\$ 2,700.00	18	\$ 2,700.00	22	\$ 2,420.00		\$ -	3	\$ 270.00		\$ -	55	\$ 8,090.00
Totals	70	\$ 15,750.00	180	\$ 27,000.00	1070	\$ 117,700.00	15	\$ 2,200.00	84	\$ 6,480.00	4	\$ 380.00	1432	\$ 171,970.00

Average hours per month: 5.8 19.0 89.2 1.5 7.8 0.3 1.411 171,970.00 \$ 31,250.00

Labor divided equally among 3 projects

Project 3 DESIGNWORKSHOP

CCD Project CE93007 - Projects 1, 2 and 3 Final Design Fee Worksheet - Reimbursables

Date: 10/18/2011 Address: 1390 Lawrence Street, Denver, CO 80206
By: Allyson Mendenhall Phone: 303-623-5186

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.51	800	\$ 408.00
Parking	Each	\$11	0	\$ -
RTD Light Rail Fare	Each	\$5	12	\$ 36.00
Copies-Black and White (8 1/2" x 11" and 8 1/2" x 14")	Each	\$ 0.15	1,200	\$ 180.00
Copies-Black and White (11" x 17")	Each	\$ 0.30	2,400	\$ 720.00
Copies-Color (8 1/2" x 11" and 8 1/2" x 14")	Each	\$ 1.00	300	\$ 300.00
Copies-Color (11" x 17")	Each	\$ 2.00	300	\$ 600.00
Diazo/Blue/line and Blackline Plots	SF	\$ 1.00	1,080	\$ 1,080.00
Large-Scale Scans	Square Inch	\$ 0.03	6,912	\$ 207.36
Color Plots	SF	\$ 5.00	288	\$ 1,440.00
Couriers	Each	\$ 20.00	3	\$ 60.00
CDs/DVDs	Each	\$ 3.00	4	\$ 12.00
Total			Total	5,043.36

Assumptions

12 monthly mtgs. at FHU x 32 miles roundtrip = 384 miles; miscellaneous site visits and addl. mtgs.
 \$4.50 fare x two people x 4 trips
 100 copies x 12 mos.
 200 copies x 12 mos.
 25 copies x 12 mos.
 25 copies x 12 mos.
 24"x36" (6 sf per) x 15 per month x 12 mos.
 (8) 24" x 36" (864 sq. in.) scans
 24"x36" (6 sf per) x 4 per month x 12 mos.

Vendors	Cost
Hydrosystems KDI--Reimbursables	\$ 250.00
Hydrosystems KDI--Labor	\$ 6,750.00
Total	7,000.00

* At actual cost

Reimbursables and Vendors divided equally among 3 projects

Goodbee

3 Project Segments Summary

	Total Hrs	Average Labor Rate	Total Labor Costs	Total ODC	Grand Total
1 - Broadway Kentucky to South of Tennessee TIP Project	593	107.23	\$ 63,550	\$ 8,432	\$ 71,981
2 - Broadway Mississippi to Arizona Project Final Design	528	107.50	\$ 56,715	\$ 13,232	\$ 69,946
3 - NB I-25 Loop On-Ramp & Water Quality Pond	533	107.67	\$ 57,373	\$ 9,632	\$ 67,004
TOTAL	1653		\$ 177,637	\$ 31,295	\$ 208,932

2,009 \$ 231,392 \$ 31,295 \$ 262,687

3 Project Segments:

- 1 - Broadway Kentucky to South of Tennessee TIP Project;
- 2 - Broadway Mississippi to Arizona Project Final Design
- 3 - NB I-25 Loop On-Ramp & Water Quality Pond;

Task No.	Project Segment	Description of Activities /Assumptions	Princ. Engr (Goodbee)	Senior Project Manager	Staff Project Engr	Project Utility Coordinator	Administrative Assistant/ Tech	Total Hrs	Total Cost		
TASK 1 - PROJECT MANAGEMENT	1	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	\$127.81/hr	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00			12.00	1,127	
	2	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	0.00	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00	7.00		12.00	1,127	
	3	Initial project kick-off and consultant Kick-off meeting (Assume 1 meeting) Included in the design progress meetings below.	0	0.00	0.00	0.00	0.00	0.00	-	-	
		Prepare and submit monthly invoices and progress report (assume 12 months, 14 Invoices) - Invoice will include all projects (1 thru 3) identified above	2		0.00	2.50	7.00		11.50	1,127	
			2.0	0.00	0.00	3.00			12.00	1,127	
		SUBTOTAL	6	0.00	0.00	7.50	21.00	34.50	3,382		
TASK 6 - UTILITY COORDINATION	1	As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600	
		Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 15 meetings); Deliverable - Meeting Minutes	2	18.00	8.00	22.50		50.50	5,580		
		Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐	0.5	2.00	1.00	2.67		6.17	686		
		Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings); Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities;		8.00	4.00	10.17		22.17	2,419		
		Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)		10.00	3.00	10.67		23.67	2,621		
		Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)	1	8.00	2.00	8.67		19.67	2,207		
		Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;		5.00	2.00	6.00		13.00	1,426		
			4.0	55.00	24.00	68.00		150.17	16,540		
		2	As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600
			Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 8 meetings); Deliverable - Meeting Minutes	2	10.00	4.00	12.00		28.00	3,129	
	Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐		0.5	2.00	1.00	2.67		6.17	686		
	Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings); Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities;			8.00	4.00	10.17		22.17	2,419		
	Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)			10.00	3.00	10.67		23.67	2,621		
	Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)		1	8.00	2.00	8.67		19.67	2,207		
	Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;			5.00	2.00	6.00		13.00	1,426		
			4.0	47.00	20.00	58.00		127.67	14,088		
	3		As required, coordinate with Nolte to conduct limited field survey within the project limits to supplement existing 30% project survey data for above ground utilities; storm sewer manhole and inlet invert elevations; sanitary sewer manhole inverts; and utility vaults. Deliverable: Update existing utility base map		4.00	4.00		7.00		15.00	1,600
			Conduct One-on-One Meetings with affected utility owners and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies (Assumes 15 meetings); Deliverable - Meeting Minutes	2	18.00	8.00	22.50		50.50	5,580	
		Obtain utility easements, license agreements, and relocation agreement templates from Utility Owners as applicable and provide to CCD and CDOT Reg. 6 Utility Engineer ☐	0.5	2.00	1.00	2.67		6.17	686		
		Coordinate with other design disciplines in showing existing utilities in profiles and cross-sections (Nolte/FHU design team coordination). (Assumes coordination plus 4 meetings); Assist Scanlon with points of service (assumes 2 meetings); and FHU regarding Detour and phasing development for potential impact to utilities;		8.00	4.00	10.17		22.17	2,419		
		Perform support services for CCD required to obtain Utility Agreements and prepare work orders (Assume 8 utility owners impacted)		10.00	3.00	10.67		23.67	2,621		
Coordinate with affected utility agencies as preparation to draft the utility clearance letter request to be processed by CCD and CDOT (assumes 5 owners, 1 meeting each)		1	8.00	2.00	8.67		19.67	2,207			
Prepare for and Conduct/Attend utility coordination meetings with CCD and CDOT, separate from One-on-One utility meeting as requested (Assume 2 meetings); includes documentation;			5.00	2.00	6.00		13.00	1,426			
		4.0	55.00	24.00	68.00		150.17	16,540			
		SUBTOTAL	11	157.00	68.00	192.50	0.00	428.00	47,168		
TASK 7 - UTILITY DESIGN		1	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 3 data sheets at 40 scale = 10 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHU and 1 final deliverable)	4	28.00	60.00	84.00		176.00	18,426	
	Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. ☐			15.00	16.00	29.00		60.00	6,370		
	Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 18 potholes)		2	11.00	18.00	27.00		58.00	6,145		
	Create manhole tabulation plan sheet(s) (assumes 1 add'l sheet) ☐			5.00	2.00	6.00		13.00	1,426		
	Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)			5.00	2.00	6.00		13.00	1,426		
	Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.			3.00	2.00	3.50		8.50	928		
	Provide utility Quantity Calculations for Dry utilities only;		2	5.00	6.00	10.00		23.00	2,500		
	Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.		2	10.00	4.00	12.00		28.00	3,129		
	10.0	82.00	110.00	178.00	0.00	378.50	40,351				

Goodbee and Associates, Inc.
 CCD Project CE93007
 South Broadway, Arizona to Exposition and I-25 Interchange



Task No.	Project Segment	Description of Activities /Assumptions	Princ. Engr (Goodbee)	Senior Project Manager	Staff Project Engr	Project Utility Coordinator	Administrative Assistant/ Tech	Total Hrs	Total Cost
			\$138.04/hr	\$127.81/hr	\$102.25/hr	\$97.14/hr	\$86.91/hr		
	2	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 2 data sheets at 40 scale = 9 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHJ and 1 final deliverable)	4	26.00	56.00	78.40		164.40	17,217
		Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. □		15.00	16.00	29.00		60.00	6,370
		Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 10 potholes)	2	7.00	10.00	16.00		35.00	3,747
		Create manhole tabulation plan sheet(s) (assumes 1 add'l sheets) □		5.00	2.00	6.00		13.00	1,426
		Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)		5.00	2.00	6.00		13.00	1,426
		Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.		3.00	2.00	3.50		8.50	928
		Provide utility Quantity Calculations for Dry utilities only;	2	5.00	6.00	10.00		23.00	2,500
		Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.	2	10.00	4.00	12.00		28.00	3,129
			10.0	76.00	96.00	161.00	0.00	344.90	36,744
	3	Prepare utility plan sheets showing existing and proposed utility facilities and easements in plan view, and summary table of all affected utilities within the project area (assumes 1-2 gen notes, 1 key map, pothole table and plan location; 2 tabulations (manhole tab & removal), 1-2 data sheets at 40 /50 scale = 8 sheets total); Provide internal QC review (Assumes 2 interim deliverables to FHJ and 1 final deliverable)	4	22.00	48.00	67.20		141.20	14,800
		Create Proposed utility base file to translate dry owner designs (Xcel, Qwest, etc) into project plans sheets and for information to design team. □		15.00	16.00	29.00		60.00	6,370
		Potholing- Develop pothole plan to confirm utility conflicts and needed relocations or mitigation with input from design team. Consult with utilities, Prime and City to finalize pothole locations. Coordinate and oversee potholing and survey of potholes. (Assume 12 potholes)	2	8.00	12.00	19.00		41.00	4,371
		Create manhole tabulation plan sheet(s) (assumes 1 add'l sheets) □		5.00	2.00	6.00		13.00	1,426
		Develop a tabulation of utility removals and adjustments (assume 1 add'l sheet)		5.00	2.00	6.00		13.00	1,426
		Prepare for and Attend Coordination meeting with Nolte (as lead) and utility owners for wet utility design. (assume 2 meetings) - Split between the projects Deliverable - Provide meeting notes to Nolte for preparation of final meeting minutes.		3.00	2.00	3.50		8.50	928
		Provide utility Quantity Calculations for Dry utilities only;	2	5.00	6.00	10.00		23.00	2,500
		Prepare Utility specifications (CDOT Format) with assistance from Nolte on wet designs.	2	10.00	4.00	12.00		28.00	3,129
			10.0	73.00	92.00	163.00	0.00	327.70	34,951
		SUBTOTAL	30	231.00	300.00	491.10	0.00	1,052.10	112,046
TASK 19 - DESIGN PROGRESS/ COORDINATION MEETING	1	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting. Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting)		0.00	0.00	8.00		8.00	777
			2.0	15.00	7.00	27.00	0.00	51.00	5,532
	2	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting. Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting) - NOT INCLUDED IN THIS SCOPE		0.00	0.00	0.00		-	-
			2.0	15.00	7.00	19.00	0.00	43.00	4,755
	3	Prepare for and attend Consultant Team coordination meetings (Assume 14 meetings); includes preparation and documentation of exhibits and minutes. Meetings to be conducted to include ALL projects. Time split between all three projects	2	11.00	5.00	14.00		32.00	3,553
		Prepare for and attend Misc. meetings as requested (assume 5 per sub consultant); includes preparation and documentation of meeting. Meetings to be conducted to include ALL projects. Time split between all three projects		4.00	2.00	5.00		11.00	1,201
		Prepare for and Attend 90% review meeting (Assume 1 meeting) - NOT INCLUDED IN THIS SCOPE		0.00	0.00	0.00		-	-
			2.0	15.00	7.00	19.00	0.00	43.00	4,755
		SUBTOTAL	6	45.00	21.00	65.00	0.00	137.00	15,041
TOTAL LABOR			53	433.00	389.00	756.10	21.00	1,651.60	177,637

Prev. hrs 2,009.00

Project Item	Units	# of Units	Unit Price	Subtotal	
Mileage	Total miles for all three project (3000 per project)	miles	9000.00	0.56	4995.00
1	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	10.00	600.00	6000.00
2	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	18.00	600.00	10800.00
3	Hydro Excavation (Pothole) Subcontractor - TBD (price includes MINOR traffic control, core drill, spoil haul off, back fill and patch per CCD standards (not included: Major Traffic Control - flaggers, concrete replaced, flow fill, permit and overtime/weekend work)	Potholes	12.00	600.00	7200.00
	Total miles for all three project (3000 per project) - Projects 1 through 3	LS	3.00	0.00	0.00
	Parking - Projects 1 through 3	LS	3.00	600.00	1800.00
	Reproduction - Projects 1 through 3	LS	3.00	500.00	500.00
TOTAL ODCs					\$ 31,295.00

TOTAL ESTIMATE \$ 177,637.00 + \$ 31,295.00 = \$ 208,932.00

Goodbye assumptions

1. Per our meeting discussion, I reviewed the hours for one-on-one meeting with utility owners and feel that the hours provided are necessary to discuss and resolve the potential impacts identified. These meeting can be combined from one segment to another, however it doesn't change the amount of effort to discuss issues therefore just resulting to a longer meeting. For budgeting purposes, I have left these as is.
2. In regards to question on what the pothole effort includes: The pothole rate includes the coordination time on locates, minor traffic plan approval and control (Major NOT included), permits, standard excavation of a pothole up to 8' deep, core drills of asphalt and/or concrete and backfill and road patching as needed and slight contingency to cover miss locates which accounts for a second hole as well as potential difficult excavations i.e. rocks, etc.



CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Summary

Date: 10/19/2011 Address: 8000 S. Chester Street, Suite 200, Centennial, CO 80112
 By: Rome/Beresford Phone: 303.220.6400

	Phase 1	Phase 2	Phase 3	Total
Summary				
Noite Associates, Inc.				
Labor	\$ 107,419.50	\$ 66,279.50	\$ 69,324.50	\$ 243,023.50
Reimbursables	\$ 1,607.30	\$ 964.38	\$ 642.92	\$ 3,214.60
subtotal	\$ 109,026.80	\$ 67,243.88	\$ 69,967.42	\$ 246,238.10
Vendors				
ALTUS TRAFIC (Traffic Control)	1800	1800	1800	\$ 5,400.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
subtotal				\$ 5,400.00
Total				\$ 251,638.10

Project 1 total = \$110,826.80
 Project 2 total = \$69,043.88
 Project 3 = \$71,767.42



CCD Project CE93007 - TIP Project Final Design + Construction Support
Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBaresford

Tasks	Associate			Engineering Manager			Senior Engineer			Associate Engineer			Assistant Engineer		
	Hours	Rate: \$106.50	Fee	Hours	Rate: \$154.00	Fee	Hours	Rate: \$135.00	Fee	Hours	Rate: \$112.50	Fee	Hours	Rate: \$106.50	Fee
2. Survey <ul style="list-style-type: none"> - Prepare Center and Survey Maps, Utilities, Subsurface Investigation - Extract Additional Information from 2011 Survey - Obtain Right-of-Way Permits (for both survey and geotech) - Update TOPO CAD File - Update DTM - Assist Geotech with Existing Utility Base File Update - Assist Geotech with Existing Utility Base File Update - Survey Related Coordination Meetings (1 meeting) 	13	\$1,384.50	\$1,384.50	1	\$1,540.00	\$1,540.00	3	\$1,350.00	\$4,050.00	1	\$1,125.00	\$1,125.00	1	\$1,065.00	\$1,065.00
2A. Right-of-Way <ul style="list-style-type: none"> - Survey Right-of-Way and Discrepancies for CCE 1.5 Grading Limits - Prepare ROW Plans - ROW Related Coordination Meeting (2 meetings) 	5	\$532.50	\$532.50	1	\$1,540.00	\$1,540.00	1	\$1,350.00	\$1,350.00	1	\$1,125.00	\$1,125.00	1	\$1,065.00	\$1,065.00
7. Utility Design <ul style="list-style-type: none"> - Existing Utility Plans + Conflict Summary / Lists - Prepare Proposed Location and Log Point Counts - Prepare Member Log Plan Sheets - Prepare Utility Design + Specifications - 50% and Final VPI Utility Quantities and Elevations - 50% and Final VPI Utility Design + Plans + Specifications 	4	\$426.00	\$426.00	14	\$2,356.00	\$3,340.00	30	\$13,500.00	\$4,050.00	30	\$3,375.00	\$10,125.00	8	\$852.00	\$2,856.00
10. Hydrology and Hydraulic Analysis & Design <ul style="list-style-type: none"> - Quantity Calculations and Publications - Drainage Design Related Coordination Meetings, Exhibits + Minutes 	2	\$213.00	\$213.00	10	\$3,340.00	\$3,340.00	44	\$9,900.00	\$2,970.00	20	\$2,130.00	\$2,130.00	14	\$1,491.00	\$1,491.00
11. Water Quality Analysis & Design <ul style="list-style-type: none"> - Develop Final Water Quality + Plans + Specifications - Water Quality Design Related Coordination Meetings, Exhibits + Minutes 	4	\$426.00	\$426.00	12	\$3,996.00	\$4,812.00	26	\$7,020.00	\$2,808.00	8	\$852.00	\$852.00	4	\$426.00	\$426.00
17. Multi Agency Environment & Coordination <ul style="list-style-type: none"> - Coordinate with Project Stakeholders - Multi-Agency Related Coordination Meetings, Exhibits + Minutes 	10	\$1,065.00	\$1,065.00	4	\$2,918.00	\$2,918.00	22	\$2,970.00	\$6,534.00	22	\$2,475.00	\$5,445.00	2	\$2,130.00	\$2,130.00
18. Design <ul style="list-style-type: none"> - Append - Printing / Plots/graphics - Meeting Minutes 	30	\$3,195.00	\$3,195.00	175	\$3,340.00	\$5,835.00	22	\$2,970.00	\$6,534.00	117	\$2,796.00	\$3,271.00	84	\$886.20	\$10,165.20
Totals	30	\$3,195.00	\$3,195.00	175	\$5,835.00	\$10,165.00	234	\$7,820.00	\$18,408.00	138	\$1,896.00	\$2,615.00	84	\$886.20	\$10,165.20



CCD Project CE93007 - TIP Project Final Design + Cor
 Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBarralFord

Tasks	Junior Engineer			Survey Manager			Senior Surveyor			Associate Surveyor		
	Hours	Rate: \$24.00	Fee	Hours	Rate: \$138.00	Fee	Hours	Rate: \$118.00	Fee	Hours	Rate: \$24.00	Fee
2. Survey												
- Obtain Permit and Survey Data (Utility, Subsurface Investigation)												
- Extract Additional Information from 2011 Survey												
- Obtain Right-of-Way Permit (for both survey and geotech)												
- Update TOPO CAD File												
- Update DTM												
- Assist Geotech with Existing Utility Base File Update												
- Survey Related Coordination Meeting (1 meeting)												
2A. Right-of-Way												
- Survey Right-of-Way and Easements for CE/TS Grading (Earth)												
- Prepare ROW Plans												
- ROW Related Coordination Meeting (2 meetings)												
7. Utility Design												
- Conduct Utility Design + Coordinate Surveying / Data												
- Prepare Proposed Location and Log Path Details												
- Prepare Member Log Path Sheet												
- Prepare Utility Design + Specifications												
- 50% and Final VPI Utility Quantities and Easements												
- 50% and Final VPI Utility Design + Plans + Specifications												
10. Hydrology and Hydraulic Analysis & Design												
- Quantity Calculations and Publications												
- Drainage Design Related Coordination Meetings, Exhibits + Minutes												
11. Water Quality Analysis & Design												
- Develop Water Quality Design + Plans + Specifications												
- Water Quality Design Related Coordination Meetings + Minutes												
17. Multi Agency Environment & Coordination												
- Coordinate with Project Stakeholders												
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes												
18. Design Production												
- Appendices												
- Printing/Production/Graphics												
- Material Purchase												
Totals	20		4700.00	10		2618.00	3		1048.00	105		25388.00



CCD Project CE93007 - TIP Project Final Design + Cor
 Fee Worksheet - Labor Rev 5

Date: 10/19/2011
 By: RonelBaresford

Tasks	2 Person Field Crew										
	Rate: \$140.00	Hours	Fee	Hours						Fee	Total
				1	2	3	4	5	6	7	8
2. Survey											
- Prepare Center and Survey Maps, Utilities, Subsurface Investigation		14	\$ 1,960.00								
- Extract Additional Information from 2011 Survey		14	\$ 1,960.00								
- Obtain Right-of-Way Permits (for both survey and geotech)		0	\$ -								
- Obtain Right-of-Way Permits (for both survey and geotech)		0	\$ -								
- Update LOTO CAD File		0	\$ -								
- Update DTM		0	\$ -								
- Assist Geotechnical with Existing Utility Base File Update		16	\$ 2,240.00								
- Assist Geotechnical with Existing Utility Base File Update		16	\$ 2,240.00								
- Survey Related Coordination Meetings (1 meeting)		0	\$ -								
2A. Right-of-Way											
- Prepare ROW Plans and Easements for C&E 1's Grading (Earth)		0	\$ -								
- Prepare ROW Plans		0	\$ -								
- ROW Related Coordination Meeting (2 meetings)		0	\$ -								
7. Utility Design											
- Conduct Utility Design + Coordinate Surveying / Data		0	\$ -								
- Prepare Proposed Location and Log Path Details		0	\$ -								
- Prepare Member Log Path Details		0	\$ -								
- Prepare Member Log Path Details		0	\$ -								
- 50% and Final VPI Utility Quantities and Easements		110	\$ 15,400.00								
- 50% and Final VPI Utility Quantities and Easements		110	\$ 15,400.00								
10. Hydrology and Hydraulic Analysis & Design											
- 50% and Final Drainage Design, 4 Plans + Specifications		109	\$ 15,260.00								
- 50% and Final Drainage Design, 4 Plans + Specifications		109	\$ 15,260.00								
- Quantity Calculations and Easements		28	\$ 3,920.00								
- Quantity Calculations and Easements		28	\$ 3,920.00								
- Drainage Design Related Coordination Meetings, Exhibits + Minutes		0	\$ -								
11. Water Quality Analysis & Design											
- Conduct Water Quality Analysis + Prepare Specifications		0	\$ -								
- Conduct Water Quality Analysis + Prepare Specifications		0	\$ -								
- Water Quality Design Related Coordination Meetings + Minutes		0	\$ -								
17. Multi Agency Environment & Coordination											
- Coordinate with Project Stakeholders		0	\$ -								
- Coordinate with Project Stakeholders		0	\$ -								
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes		0	\$ -								
- Multi-Agency Related Coordination Meetings, Exhibits + Minutes		0	\$ -								
18. Design											
- Prepare Final Plans		88	\$ 12,320.00								
- Prepare Final Plans		88	\$ 12,320.00								
- Appendices		10	\$ 1,400.00								
- Appendices		10	\$ 1,400.00								
- Meeting Minutes		22	\$ 3,080.00								
- Meeting Minutes		22	\$ 3,080.00								
Totals		48	\$ 6,720.00	32	20	0	0	0	0	0	0
				107,419.00	64,278.50	49,124.50	243,822.00				

\$19,933.00 carried forward to hydrology and drainage in overall consultant fee



**CCD Project CE93007 - TIP Project Final Design + Cor
Fee Worksheet - Labor Rev 5**

Date: 10/19/2011
By: Ronel Barnesford

Tasks	
2. Survey	<ul style="list-style-type: none"> • Obtain/Confirm Field Survey Data (Utility, Subsurface Investigation) • Extract Additional Information from 2010 Survey • Obtain Right-of-Way Permits (for both survey and geotech) • Survey Stationing • Update TOPO CAD File • Update DTM • Assist Geotech with Existing Utility Base File Update • Survey Stationing • Survey Related Coordination Meeting (1 meeting)
2A. Right-of-Way	<ul style="list-style-type: none"> • Survey Stationing • Prepare ROW Plans • ROW Related Coordination Meeting (2 meetings)
7. Utility Design	<ul style="list-style-type: none"> • Conduct Utility Design + Conflict Summary / Lists • Prepare Preliminary Location and Log Path Sheets • Prepare Member Log Path Sheets • 50% and Final VTI Utility Design + Plans + Specifications • 50% and Final VTI Utility Quantities and Elevations • 50% and Final VTI Utility Details
10. Hydrology and Hydraulic Analysis & Design	<ul style="list-style-type: none"> • Storm Drainage Design + Plans + Specifications • Drainage Design Related Coordination Meetings, Exhibits + Minutes
11. Water Quality Analysis & Design	<ul style="list-style-type: none"> • Storm Drainage Design + Plans + Specifications • Storm Drainage Design Related Coordination Meetings, Exhibits + Minutes • Water Quality Design Related Coordination Meetings + Minutes
17. Multi Agency Environment & Coordination	<ul style="list-style-type: none"> • Coordinate with Project Stakeholders • Multi-Agency Related Coordination Meetings, Exhibits + Minutes
18. Design Review Meeting	<ul style="list-style-type: none"> • Design Review Meeting • Agenda • Meeting Minutes/Graphics • Meeting Minutes
Totals	

Assumes required allocation of water Broadway to Lincoln along Mississippi. Depressions at 5 locations & hydrant relocation, documentation for tap location, stub service at Kentucky and Tennessee, reconfiguration at loop pump area for Storm Collection area
 Water Sheet Court 4 sheets + Details
 Sanitary Sheet Court 1 Sheet + Details
 Assumes Removal and replacement of Brick Lined Sewer along Broadway, New Storm along Broadway, Vault reconstruction in Mississippi Broadway Intersection due to elevation adjustment, New Vault for East Side service, Local service connection at Ohio. Assume future expor
 Storm Sheet Court 7 plan view, 7 profile view, 4 details including outlet structures/elevations
 Assume the Grading associated with Pond area exporable above VSE 2 sheets



CCD Project CE93007 - TIP Project Final Design + Construction Support

Fee Worksheet - Reimbursables

Date: 10/19/2011

Address: 8000 S. Chester Street, Suite 200, Centennial, CO 80112

By: Rome

Phone: 303.220.6400

Reimbursables	Unit	Cost Per Unit	Number	Cost Total	Cost Phase 1	Cost Phase 2	Cost Phase 3
Mileage	Miles	\$ 0.50		\$ -	\$ -	\$ -	\$ -
Parking	Each	*	30	\$ 360.00	\$ 180.00	\$ 108.00	\$ 72.00
Plotting Bond	SF	\$ 0.24	3,200	\$ 768.00	\$ 384.00	\$ 230.40	\$ 153.60
Copies Black & White	Each	\$ 0.08	8,000	\$ 640.00	\$ 320.00	\$ 192.00	\$ 128.00
Copies Color	Each	\$ 0.19		\$ -	\$ -	\$ -	\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22	120	\$ 146.40	\$ 73.20	\$ 43.92	\$ 29.28
Postage for Major Mailings	Each	*	1	\$ 0.20	\$ 0.10	\$ 0.06	\$ 0.04
Project Use	Each	\$ 100.00		\$ -	\$ -	\$ -	\$ -
Meeting Facility Rental	Each	*		\$ -	\$ -	\$ -	\$ -
Catering for Public Meetings	Each	*		\$ -	\$ -	\$ -	\$ -
Field Supplies for Materials Testing	Each	*	1	\$ 100.00	\$ 50.00	\$ 30.00	\$ 20.00
Couriers	Each	*	20	\$ 1,000.00	\$ 500.00	\$ 300.00	\$ 200.00
Overnight Deliveries	Each	*	10	\$ 200.00	\$ 100.00	\$ 60.00	\$ 40.00
Total				\$ 3,214.60	\$ 1,607.30	\$ 964.38	\$ 642.92

* At actual cost

Vendors	Cost
ALTUS TRAFFIC (Traffic Control)	\$ -
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-



TRAFFIC CONTROL PROPOSAL

May 2nd 2011

To: Nolte Vertical Five
 Attn: Charles Beresford
Re: Traffic Control Proposal: Broadway

ALTUS Traffic provides personalized full-service traffic management, 24 hrs a day 365 days a year. Altus Traffic's all-inclusive rate structure, offers the following key components:

- Risk analysis / Job Safety Site Audits
- Road authority negotiations / notifications / assessments (Obtaining Permits)
- Emergency notifications
- Services notification (buses / trains)
- Necessary Vehicles and Best in Market Equipment (signs, two-way radios, ppe)
- Qualified Uniformed Traffic Controllers – Para-professionals
- Traffic control – Full implementation and management
- Single & Multiple lane closure.
- Road closures / detours.
- Short term / long term projects.
- Full Job Report on Completion

Item(s)	UOM	Quantity	Unit Price	Total Price
Traffic Control Plans	Each	3.00	\$100.00	\$300.00
1 - Man Crew	Day	3.00	\$500.00	\$1,500.00
<i>Projected Total</i>				\$1,800.00



Conditions

- *Terms – Net 21 Days*
- *Altus reserves the right to increase rates due to and not limited to – Union requirement, material cost and labor cost. Such increases will require 15 day written notice to Nolte Vertical Five , and a signed agreement by both parties.*
- *Estimate provided considering known quantities and conditions. Any changes in quantities and conditions may impact estimate.*
- *A 4 (four) hour minimum on all works*
- *1 – Man Crew Pricing includes 1 (one) person, 1 (one) barricade truck, all cones, signs and barricades needed for the scope of work and 1 (one) arrow board for up to 8 hours worked. If hours exceed 8 for any reason, invoicing will reflect those hours at the hourly rate of \$48.25 per hour.*

Accepted on behalf of Nolte Vertical Five

.....

Date:.....

Signed on behalf of Altus Traffic

.....

Date:.....

Thank You

Nolte Assumptions

- Phase 2-Survey:
 - Obtain Right Of Entry Permits: assumes all ROE permits will be prepared and sent at one time and that property owners will return the additional permits with little follow up from Nolte.
 - Assist Goodbye With Existing Utility File Updates: assumes ALL utility field work can be performed in four 8-hour days or total of 32 field hours including travel time.
 - Potholing (25 holes): assumes all potholing will be performed at one time for the 3 areas.
- Phase 2A-Right-Of-Way:
 - Prepare ROW Plans: assumes one ROW Plan set versus 3.
 - ROW Related Meetings: assumes 2 meetings instead of 3.
- Assumes that Nolte will not have involvement at Public Meetings including Neighborhood Meetings, Public Hearings or Stakeholder presentations
- Assumes that sustainability efforts will be limited to Matrix update at the 60% completion level and Final Plan Completion
- Assumes that the Project deliverable will be presented as a single Phase. Incremental phasing plans will be addressed as an additional service
- Assumes that existing conditions investigation of brick lined sewers and Sanitary Sewer in Mississippi will be available in the first 2 months of the project start to address design limits.
- Assumes that timing for Phase 1 Construction is scheduled to occur in the spring of 2013. Variations from the project that postpone the schedule, cause appreciable variation from the 30% design concept or delays to re-evaluate concepts previously addressed will be considered additional services



CCD Project CE93007 - Summary of 3 Tasks:

Broadway Kentucky to South of Tennessee TIP Project
 Broadway Mississippi to Arizona Project Final Design
 NB I-25 Loop On-Ramp & Water Quality Pond

Fee Worksheet - Summary

Date: Revised September 23, 2011

Address:

By: Nanci Regnier

Phone:

Summary	
Regnier & Associates, Inc.	
Labor Project 1	\$ 3,330.00
Labor Project 2	\$ 3,330.00
Labor Project 3	\$ 3,330.00
Reimbursables	\$ 150.00
subtotal	\$ 10,140.00
Vendors	
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ -
Total	\$ 10,140.00

total per project = \$3,380.00



Regnier

& Associates, Inc.

CCD Project CE93007 - NB I-25 Loop On-Ramp & Water Quality Pond

Fee Worksheet - Reimbursables

Date: Revised September 23, 2011

Address: 1600 Glenarm Place #2505, Denver, CO 80202

By: Nanci Regnier

Phone: 303-680-6849

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.50	100	\$ 50.00
Parking	Each	*		\$ -
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08		\$ -
Copies Color	Each	\$ 0.19		\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		\$ -
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		\$ -
Catering for Public Meetings	Each	*		\$ -
Field Supplies for Materials Testing	Each	*		\$ -
Couriers	Each	*		\$ -
Overnight Deliveries	Each	*		\$ -
Total				50.00

* At actual cost

Vendors	Cost
Total	-

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-



**CCD Project CE93007 - 3 Project Segments + Construction Support
Fee Worksheet - Summary**

Date: 10/20/2011 Address: 3025 South Parker Rd. Suite 1100, Aurora
By: Sandra Scanlon Phone: 303-696-2602

Summary	
SSSG MEP, Inc.	
Labor Package #1	\$ 33,121.45
Reimbursables Package #1	\$ 351.42
Optional Construction Support Pkg #1	\$ -
subtotal	\$ 33,472.87
Labor Package #2	\$ 18,465.79
Reimbursables Package #2	\$ 351.42
Optional Construction Support Pkg #2	\$ -
subtotal	\$ 18,817.21
Labor Package #3	\$ 15,415.09
Reimbursables Package #3	\$ 351.42
Optional Construction Support Pkg #3	\$ -
subtotal	\$ 15,766.51
Vendors	
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ -
Total w CA	\$ 68,056.59



Pkg 3

**CCD Project CE93007 - NB I-25 Loop On-ramp & Water Quality Pond + Optional Construction Support
Fee Worksheet - Reimbursables**

Date: 10/20/2011 Address: 3025 South Parker Rd. Suite 1100, Aurora, CO 80014
By: Sandra Scanlon Phone: 303-696-2602

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.51	200	\$ 102.00
Parking	Each	\$ 12.00	8	\$ 96.00
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08	75	\$ 6.00
Copies Color	Each	\$ 0.19	18	\$ 3.42
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		
Catering for Public Meetings	Each	*		
Field Supplies for Materials Testing	Each	*		
Couriers	Each	\$ 12.00	12	\$ 144.00
Overnight Deliveries	Each	*		
Total				351.42

* At actual cost



Fig 3

CCD Project CEB3007 - NB I-25 Loop On-ramp & Water Quality Pond + Optional Construction Support

Fee Worksheet - Labor

Date: 10/20/2011
 By: Sandra Scanlon
 Address: 3225 South Parker Rd, Suite 1100, Aurora, CO 80014
 Phone: 303.696.2692

Tasks	Principal - Scanlon		Engineer - Thorpe		CAD/Designer - Clark Johnson		Administrative - Gibbs		Totals	
	Hours	Rate: \$167.63	Hours	Rate: \$106.16	Hours	Rate: \$53.81	Hours	Rate: \$62.73	Hours	Rate
13. Electrical and Lighting Analysis & Design										
- Coordination of lighting removals and resets										
- quality pond Area	2	\$ 335	8	\$ 849	8	\$ 670			18	\$ 1,855.02
- Any Structural base design for FHU in this phase? No									0	\$ -
- Pedestrian lighting equipment selection is done, no									0	\$ -
- modifications in FOR									0	\$ -
- Roadway lighting equipment is decided MH and									1	\$ 106.16
- curvilinear luminaire & 10 mast arm										
- Power system configuration is a private metered										
- system for pedestrian lights, ITS equip, HALO										
- cameras, and traffic signals. Flat rate cost for street										
- lights with branch circuits by the EC of this										
- contract, due to Federal Funding.										
- Cord with electrical utility and utility consultant re										
- SOW for entire project	1	\$ 168	3	\$ 318	2	\$ 168			6	\$ 653.73
- Coordinate the installation requirements for one HALO										
- camera, design electrical provisions										
- 90% Lighting Design + Plans + Specifications, New										
- (2 plans) and removals (2 plans)										
- 100% Lighting Design + Plans + Specifications, New										
- and removals										
- 90% Quantity Calculations and Tabulations										
- 100% Quantity Calculations and Tabulations										
- 90% and 100% Develop Lighting and Electrical SOW										
- Opinion of Probable Cost										
- OAMQC process										
- Coordination with Design Team	6	\$ 1,006	3	\$ 318	3	\$ 251			12	\$ 1,575.69
- Monthly Progress Reports & Invoices										
- Monthly Progress Reports & Invoices										
14. Construction Phasing & Detour Design										
Totals	9	\$ 1,508.67	86	\$ 9,129.76	64	\$ 4,525.74	4	\$ 250.92	153	\$ 15,415.09
	6%		56%		59%		3%		100%	

Assumptions by SSG MEP

decision made already, reduced hours

most of work is in package 1

assume 1 camera per package

I deleted these since this should just come from tabs

\$ 15,415.09

split among 3 packages for 12 months of reporting

153 15,415.09

Pkg 3		NB I-25 Loop On-ramp & Water Quality Pond		
		Sheet number	description	hours per sheet
		1 LT-1	cover sheet	12.75
		2 LT-2	map key	12.75
		3 LT-49,50	luminaire schedule	12.75
		4 LT-21	plan sheet	12.75
		5 LT-22	plan sheet	12.75
		6 LT-44	plan sheet	12.75
		7 LT-45	plan sheet	12.75
		8 LT-?	details	12.75
		9 LT-?	details	12.75
		10 LT-?	panel schedules	12.75
		11 LT-?	panel schedules	12.75
total sheets		12 LT-?	tabs	12.75
total hours	153			153



CCD Project CE93007 - Project 3 Final Design
Broadway, I-25 NB Loop Ramp
Fee Worksheet - Summary

Date: 9/22/2011 Address: 5700 E. Evans Ave, Denver, CO 80222
By: Mike Kiefer, Yeh and Associates, Inc. Phone: 303-781-9590

Summary	
Yeh and Associates, Inc.	
Labor	\$ 14,977.30
Reimbursables	\$ 577.50
subtotal	\$ 15,554.80
Vendors	
Drilling Subcontract	\$ 4,550.00
Traffic Control	\$ 2,500.00
Outside Laboratory	\$ 250.00
	\$ -
	\$ -
	\$ -
	\$ -
subtotal	\$ 7,300.00
Total	\$ 22,854.80



CCD Project CE03007 - Project 3 Final Design
Broadway, I-25 NB Loop Ramp

Fee Worksheet - Labor

Date: 9/22/2011
By: Mike Fisher, P.E. and Associates, Inc.

Address: 9708 E Evans Ave., Denver, CO 80222
Phone: 303-781-8898

Tasks	Principal		Project Manager		Senior Engineer, Environmental Scientist or Planner		Project Engineer, Environmental Scientist or Planner		Staff Engineer, Environmental Scientist or Planner		Senior Engineer/Technician		Field Engineering Technician		Laboratory Technician		Drafting		Designer V		Designer IV		Designer III		Designer II		Designer I		Administrative		Vendor		Totals					
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee						
	Rate \$135.00		Rate \$135.00		Rate \$110.00		Rate \$85.00		Rate \$75.00		Rate \$75.00		Rate \$60.00		Rate \$60.00		Rate \$60.00		Rate \$60.00		Rate \$10.00		Rate \$10.00		Rate \$10.00		Rate \$10.00		Rate \$10.00		Rate \$10.00		Rate \$10.00					
3 - Geotechnical Investigation & Permit Design	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-				
- Laboratory Investigation (see Notes - Laboratory Tests)	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00		
- Traffic Counts for Geotech Investigation	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00	1	\$135.00		
- Field Investigation	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
- Final Permit Design	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
- Permit Final Log-CD (Reference Fee)	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
- Permit Final Log-CD (Reference Fee)	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
- Permit Final Log-CD (Reference Fee)	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
- Permit Final Log-CD (Reference Fee)	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
- Construction Permit Design (Relative Coordination Meetings)	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-		
Totals	2	\$270.00	2	\$270.00	2	\$220.00	2	\$170.00	2	\$150.00	2	\$150.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00	2	\$120.00



CCD Project CE93007 - Project 3 Final Design
Broadway, I-25 NB Loop Ramp
Fee Worksheet - Reimbursables

Date: xx 9/22/2011

Address: 5700 E. Evans Ave, Denver, CO 80222

By: xx Mike Kiefer, Yeh and Associates, Inc.

Phone: 303-781-9590

Reimbursables	Unit	Cost Per Unit	Number	Cost
Mileage	Miles	\$ 0.555	500	\$ 277.50
Parking	Each	*		\$ -
Plotting Bond	SF	\$ 0.24		\$ -
Copies Black & White	Each	\$ 0.08		\$ -
Copies Color	Each	\$ 0.19		\$ -
Foam Core Exhibit Mounting Board	SF	\$ 1.22		\$ -
Postage for Major Mailings	Each	*		\$ -
Project Use	Each	\$ 100.00		\$ -
Meeting Facility Rental	Each	*		\$ -
Catering for Public Meetings	Each	*		\$ -
Field Supplies for Materials Testing	Each	*		\$ 300.00
Couriers	Each	*		\$ -
Overnight Deliveries	Each	*		\$ -
Total				577.50

* At actual cost

Vendors	Cost
Drilling Subcontract	\$ 4,550.00
Traffic Control	\$ 2,500.00
Outside Laboratory	\$ 250.00
Total	7,300.00

Additional Services	Cost
Miscellaneous as Requested By CCD Project Manager	
Total	-

Schedule of Personnel
Billing Rates

Felsburg Holt & Ullevig

SCHEDULE OF PERSONNEL BILLING RATES

Personnel Classification

Principal II

Principal I (Dean Bradley)

Associate (Ed Lind)

Sr. Engineer/Sr. Transportation Planner/ Sr. Environmental Scientist

Engineer V/ Environmental Scientist V/Transportation Planner V

Engineer IV/ Environmental Scientist IV/ Transportation Planner IV

Sr. Designer/Sr. Bridge Designer/Sr. Environmental Tech

Environmental Scientist/Transportation Planner III

Engineer/Environmental Scientist/Transportation Planner II

Engineer/Environmental Scientist/Transportation Planner I

Designer/Environmental Tech V

Designer/Environmental Tech IV

Designer/Environmental Tech III

Designer/Environmental Tech II

Designer/Environmental Tech I

Administrative

AMENDMENT 1

BILLING RATE

PER HOUR

\$180.00

\$163.60

\$148.26

\$138.04

\$127.81

\$117.59

\$107.36

\$102.25

\$92.03

\$81.80

\$97.14

\$92.03

\$81.80

\$71.58

\$61.35

\$66.46

AECOM

SCHEDULE OF PERSONNEL BILLING RATES

Personnel Classification

Principal

Project Manager

Senior Engineer

Senior Engineer (Eduardo Gamez)

Engineer

Engineer In Training

Senior CAD Operator

CAI) Operator

Administrative

AMENDMENT 1

BILLING RATE

PER HOUR

\$240.00

\$180.00

\$150.00

\$160.00

\$135.00

\$100.00

\$90.00

\$70.00

\$75.00

Design Workshop

SCHEDULE OF PERSONNEL BILLING RATES

PERSONNEL

CLASSIFICATION

Principal

Project Manager

Project Landscape Architect

Quality Management Reviewer

Project Assistant

Graphic Designer

AMENDMENT 1

BILLING RATE

PER HOUR

\$225.00

\$150.00

\$110.00

\$150.00

\$90.00

\$130.00

Schedule of Personnel
Billing Rates

Goodbee & Associates, Inc.	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal (Goodbee)	\$138.04
Lead Project/Construction Engineer	\$127.81
Lead Project Manager	\$127.81
Senior Project Manager	\$127.81
Staff Engineer	\$102.25
Staff Utility Specialist and Senior Environmental Specialist	\$102.25
Senior Environmental Specialist	\$100.00
Staff Engineer	\$102.25
Field Project Manager	\$97.14
Project Utility Coordinator	\$97.14
Field Engineer/Engineering Tech	\$86.91
CAD tech	\$66.46
Administrative/Clerical	\$86.91
HC Peck & Associates	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal	\$115.50
Senior Project/Quality Manager	\$97.02
Project Manager 1	\$84.89
Right of Way Agent III	\$77.62
Right of Way Agent II	\$65.49
Right of Way Agent I	\$55.79
Support Staff	\$48.51
HCP& A litigation support	\$150.00
Hermesen Consultants	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal	\$180.00
Research Assistant	\$30.00
Kumar & Associates	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal	\$145.00
Project Manager	\$90.00
Senior Project Geologist	\$110.00
Staff Scientist	\$75.00
Senior Drafter	\$60.00
Word Processing	\$50.00

Schedule of Personnel
Billing Rates

Nolte Vertical Five	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal	\$193.00
Associate	\$166.50
Engineering Manager	\$154.00
Senior Engineer	\$135.00
Associate Engineer	\$118.50
Assistant Engineer	\$106.50
Junior Engineer	\$94.00
CADD Technician II	\$84.00
Survey Manager	\$138.00
Senior Surveyor	\$116.50
Associate Surveyor	\$94.00
High Def Survey (HDS) Crew	\$306.50
1-person Field Crew	\$108.39
2-person Field Crew	\$149.00
3-person Field Crew	\$202.00
Administrative	\$59.00

Regnier & Associates, Inc.	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal	\$120.00
Public Involvement / Information Specialist	\$120.00
Spanish Translation / Facilitation Specialist	\$120.00
Graphic Artist	\$90.00
Project Administrator	\$75.00
Communication Specialist	\$75.00
Administrative Assistant	\$55.00

Scanlon Szynskie Group, Inc.	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Principal	\$167.63
Engineer	\$106.16
Designer	\$85.00
Drafter/CAD Operator	\$83.81
Administrative	\$62.73
Clerical	\$55.00

Two Hundred	AMENDMENT 1
PERSONNEL	BILLING RATE
CLASSIFICATION	PER HOUR
Web Developer	\$95.00
Visualization Developer	\$95.00

Schedule of Personnel
Billing Rates

Yeh & Associates

PERSONNEL

CLASSIFICATION

Principal

Project Manager

Sr. Engineer/Geologist

Graphic Specialist

Project Engineer/Geologist

Staff Engineer/Geologist

Sr. Field Inspector

Field Inspector

Sr. Field Engineer/Technician

Filed Engineering Technician

Drafter

Lab Technician

AMENDMENT 1

BILLING RATE

PER HOUR

\$153.00

\$138.00

\$110.00

\$120.00

\$95.00

\$76.70

\$95.00

\$81.80

\$75.00

\$65.00

\$66.50

\$60.00