

AMENDED DESIGN SERVICES AGREEMENT

THIS AMENDED DESIGN SERVICES AGREEMENT is by and between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (hereinafter, the "**City**"), and **CONSOR ENGINEERS, LLC**, a Florida limited liability company with a principal place of business address of 155 North Wacker Drive, Suite 4150, Chicago, IL 60606 (the "**Design Consultant**"). The City and Design Consultant are collectively referred to as the "Parties."

WITNESSETH:

WHEREAS the Parties entered into that certain Design Services Agreement dated **April 15, 2021** regarding, among others, the Design Consultant's furnishment of professional design services for that certain Project for improving transit speed and reliability on the Federal Boulevard corridor throughout the City ("**DSA**");

WHEREAS rather than enter into a new contract, the Parties desire to revise and amend the term of the DSA, amend the amount payable and scope of work under the DSA, as well as add and/or revise certain terms in the DSA;

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

1. Article 4.01 of the DSA sub-headed "**Term**" under the major heading of "**SECTION 4 - TERM AND TERMINATION**" is hereby amended by deleting it in its entirety and replacing it with the following:

"4.01 Term: The Agreement will commence on execution of this Agreement and expire on **December 30, 2024**, unless sooner terminated, upon final completion of the Project."

2. Articles 3.01, 3.02, 3.03, and 3.04(a) of the DSA under the major heading of “**SECTION 3 – COMPENSATION, PAYMENT, AND FUNDING**” are hereby amended by deleting the aforementioned articles in their entirety and replacing them as follows:

3. SECTION 3 – COMPENSATION, PAYMENT, AND FUNDING

The City shall compensate the Design Consultant for its service performed and expenses incurred under this Agreement as follows:

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 **SEVEN HUNDRED NINETY-TWO THOUSAND THREE HUNDRED FORTY-THREE DOLLARS AND ZERO CENTS (\$792,343.00.)**, in accordance with the billing rates and project budget stated in **Exhibits A, A-1, and B-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 Director or his designee, and subject to the Maximum Contract Amount stated in this Section 3.

3.02 Reimbursable Expenses. Except for those reimbursable expenses specifically identified in **Exhibits A, A-1 and/or B-1**, charged with the City’s approval as identified in **Exhibits A, A-1 and/or B-1**, and/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 **ELEVEN THOUSAND TWO HUNDRED THIRTY-FOUR DOLLARS AND ZERO CENTS (\$11,234.00)**. The City will not be obligated to pay the Design Consultant for any other fees, costs, expenses, or charges of any nature that may be incurred and paid by the Design Consultant in performing services under this Agreement including but not limited to, any charges or expenses related to personnel, benefits, contract labor,

overhead, administrative costs, operating costs, supplies, equipment, and/or out-of-pocket expenses.

3.03 Additional Services. If pre-approved additional services are performed by the Design Consultant, the City agrees to pay the Design Consultant for such additional services in accordance with Section 2.08. The maximum amount to be paid by the City for all additional services under this contract is **ZERO DOLLARS AND ZERO CENTS (\$0.00)**.

3.04 Maximum Contract Amount.

a) Notwithstanding any other provision of the Agreement, the City's maximum payment obligation will not exceed **EIGHT HUNDRED THREE THOUSAND FIVE HUNDRED SEVENTY-SEVEN DOLLARS AND ZERO CENTS (\$803,577.00)** (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 Design Consultant beyond that specifically described in **Exhibits A** and **A-1**. Any services performed beyond those set forth therein are performed at Design Consultant's risk and without authorization under the Agreement."

3. Article 5.06. of the DSA entitled "**No Discrimination in Employment**" is hereby amended by deleting it and replacing it with the following:

"5.06. No Discrimination in Employment (City Executive Order No. 8): In connection with the performance of work under the Agreement, the Design Consultant may not refuse to hire, discharge, promote, demote, or discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, ethnicity, citizenship, immigration status, gender, age, sexual orientation, gender identity, gender expression, marital status, source of income, military status, protective hairstyle, or disability.

The Design Consultant shall insert the foregoing provision in all subcontracts.”

4. Effective upon execution, all references to the Design Consultant as “Conzor Engineers, LLC d/b/a Apex Design” are hereby stricken from the Agreement and only to now read and referenced as “Conzor Engineers, LLC.”

5. Effective upon execution, all references to Exhibit A in the Agreement shall be amended henceforth to read as **Exhibits A** and **A-1**, and as applicable.

6. **Exhibit A-1** is attached and incorporated herein by reference.

7. Effective upon execution, **Exhibit B-1** of the Agreement titled “Consultant Team Members” shall replace, supersede, and serve as the Agreement’s **Exhibit B** over the previously attached Exhibit B with the same title.

8. Effective upon execution, all references to Exhibit B in the Agreement shall be amended henceforth to read as **Exhibit B-1**, and as applicable.

9. **Exhibit B-1** is attached and incorporated herein by reference.

10. Except as amended here, the Agreement is affirmed and ratified in each and every particular.

11. This Amended Design Services Agreement is not effective or binding on the City until it has been fully executed by all required signatories of the City and County of Denver, and if required by Charter, approved by City Council.

[SIGNATURE PAGES FOLLOW]

Contract Control Number: DOTI-202366708-01 [202158009-01]
Contractor Name: CONSOR ENGINEERS, LLC

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:

Attorney for the City and County of Denver


By:

By:

By:

Contract Control Number:
Contractor Name:

DOTI-202366708-01 [202158009-01]
CONSOR ENGINEERS, LLC

By: 
774B42A8CD884E6...

Matthew Cass
Name: _____
(please print)
Title: Secretary-Senior Vice President
_____ (please print)

ATTEST: [if required]

By: _____

Name: _____
(please print)

Title: _____
(please print)



SCOPE OF WORK

The Consor Engineers, LLC (Consor) (formerly Apex Design) team has been assisting with the Federal Boulevard Transit Reliability project for almost two years. As this project has progressed, DOTI requested detailed analysis of the proposed transit only lanes and queue jump locations beyond the level originally scoped. The estimated fee to complete the additional work is \$53,577. We do not anticipate that this will impact our project schedule.

To minimize the Impact to the project budget we propose to accommodate some of the additional work effort by adjusting our existing sub-consultant budgets. By reallocating funds, some of the additional analysis effort can be offset by cost savings on other original scope elements.

TASK 1 - ADDITIONAL MEETINGS

Subtask 1.1 – Traffic Analysis Meetings

Early in the project, during the Gap Analysis, recommendations came forward including converting general-purpose lanes to transit only lanes and developing transit bypass lanes with queue jumps at existing right-turn lane locations. Initially, following some Synchro analysis, the Project Management Team agreed with these recommendations. However, the City Traffic Engineer's Office expressed concerns about the recommendations. As a result, 4 additional meetings that were not originally budgeted for were held with representatives of the City Traffic Engineer's Office, the Project Management Team, and CDOT to discuss the expected traffic impacts of the recommendations and the potential implementation. Consor prepared for these meetings, facilitated the meetings and completed follow-up action items related to the meetings.

➤ Deliverables for this task include:

- Meeting Agendas and Notes

TASK 2 – ADDITIONAL DATA COLLECTION

Subtask 2.2 – Data Collection

The original scope included collection of peak hour traffic count data for up to ten (10) locations. After the Project Management Team requested additional analysis to determine the traffic impacts of the proposed transit only lanes, bypass lanes, and queue jump signals, it was determined that additional traffic count data was needed. Additional count data were determined to be needed for 4 intersections above the originally scoped 10 and queue measurements were determined to be needed at 2 locations to assist in calibration of the traffic modeling. In addition, video data was desired for 6 locations to further evaluate the proposed changes. Below is a summary of all the locations for data collection:

➤ Turning Movement Counts

- Original 10 locations:
 - 26th Avenue
 - Mississippi Avenue
 - Yale Avenue
 - Bates Avenue
 - Dartmouth Avenue
 - 20th Avenue
 - 17th Avenue
 - 6th Avenue WB Ramps



- 6th Avenue EB Ramps
- 5th Avenue
- Additional 4 locations:
 - 2nd Avenue
 - 1st Avenue
 - Alameda
 - 50th Ave

➤ **Queue Length Observations**

- 6th Avenue EB Ramps
- 6th Avenue WB Ramps

➤ **Video Documentation**

- 38th Avenue
- 19th Avenue
- Virginia Avenue
- Kentucky Avenue
- Colorado Avenue
- Dartmouth Avenue

➤ **Deliverables for this task include:**

- Peak hour traffic counts at 4 locations
- Queue measurements at 2 locations
- Video data at 6 locations

TASK 3 – ADDITIONAL TRAFFIC ANALYSIS

Subtask 3.1 – Traffic Analysis

The Consor team was only scoped to complete Synchro analysis for up to 5 locations. Additional analysis was requested by the Project Management Team related to the proposed transit only lanes, bypass lanes, and queue jump signal implementations. Additional analysis requested not only includes additional intersection locations, but also utilizing SimTraffic which was not originally scoped. In total, we will complete Synchro analysis and SimTraffic analysis for 22 intersections (17 more than originally scoped).

➤ **The following intersections were included in the Synchro analysis in coordination with the Project Management Team:**

- 50th Avenue
- 38th Avenue
- 20th Avenue
- 17th Avenue
- Howard Place
- Holden Place
- 10th Avenue
- 8th Avenue
- 6th Avenue (WB)
- 6th Avenue (EB)



- 5th Avenue
- 2nd Avenue
- 1st Avenue
- Alameda Avenue
- Virginia Avenue
- Exposition Avenue
- Kentucky Avenue
- Mississippi Avenue
- Florida Avenue
- Colorado Avenue
- Evans Avenue
- Dartmouth Avenue

➤ **Deliverables for this subtask include:**

- Summary of results of additional Synchro and SimTraffic analysis

TASK 4 – RESEARCH REALTED TO QUEUE JUMP IMPLEMENTATION

Subtask 4.1 – Review and Summary of Queue Jump Implementation Research

At the request of the project team and City Traffic Engineer's Office, research was conducted on queue jump implementation from other agencies across the country.

➤ **Research included the following:**

- MUTCD requirements related to queue jump signals
- Coordination with Cambridge, MA on their implementation of a queue jump signals
- Coordination with San Francisco, CA on their implementation of queue jump signals

➤ **Deliverables for this task include:**

- Summary memo describing findings
- Graphical PDF showing proposed queue jump signal timing operations

TASK 5 – PUBLIC OUTREACH

Subtask 5.1 – Public Outreach

Based on the above additional work, the public outreach materials will need to be updated. This includes updating and printing signs, updating the graphic map, updates to the website, updating the maps used within Mural, and related project team coordination.

➤ **Deliverables for this task include:**

- Updated public outreach collateral

REALLOCATION OF SUB CONSULTANT FEE

In the approved scope and fee, we estimated the fee for the subconsultants that would support the design phase of the project. Now that we have completed the planning phase, it is clear which elements of the project will move to final design. We have gone back to our subconsultants and received updates to their fee requests for their work based on the agreed design scope that is moving forward. The attached worksheet summarizes the previously assumed fee for the sub consultants, additions or



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303.339.0440

subtractions requested with this contract amendment and the proposed new fee for the sub-consultants. The following is a summary of the changes:

- HDR: Add \$115,962; proposed new sub consultant contract maximum is \$185,886. Increased fee to allow HDR to complete the civil design work related to construction at the bus stop areas.
- FHU: Reduce fee by 70,140; proposed new sub consultant contract maximum is \$45,130. Reduced fee due to reduction in the needed environmental services work that FHU is completing for the project.
- HKS: Reduce fee by \$40,000; proposed new sub consultant contract maximum is \$92,500. Reduce fee due to reduction in needed survey work.
- Goodbee: Scope reduced to zero. Eliminated fee because SUE is not needed, and utility coordination will be handled by ACL for efficiency.
- Yeh: Scope reduced to zero. Eliminated fee because no geotechnical work needed for design effort.
- ACL: Add ACL as a new DBE sub-consultant with a contract max of \$52,000. ACL will take the place of Goodbee and Yeh and fulfill our 7% DBE requirement for this project. ACL's scope will include completing civil design sheets for the sidewalk work, completing the SWMP and erosion control sheets, and utility coordination.
- The changes above result in \$13,711.43 being reallocated back to our Consor budget.

Federal Boulevard Speed Reliability Improvement Project
Chane Order 1, Fee Estimate

	Sr. Transportation Engineer III (Ben Waldman)	Senior Transportation Engineer II (Malinda Reese)	Senior Project Manager (Matt Rickard)	Sr. Transportation Planner II (Jessica Hernandez)	Transportation Engineer	Transportation Planner	EIT	Intern	Apex Total
	\$ 216.00	\$ 180.00	\$ 204.00	\$ 156.00	\$ 126.00	\$ 104.00	\$ 92.00	\$ 55.00	
Task 1. Additional Meetings									
Additional Meetings, Preparation, and Follow up (4 total)	12	12		4			8		
Total Hours Task 1	12	12	0	4	0	0	8	0	
Subtotal Task 1	\$ 2,592.00	\$ 2,160.00	\$ -	\$ 624.00	\$ -	\$ -	\$ 736.00	\$ -	\$ 6,112.00
Task 2. Additional Data Collection									
Turning Movement Counts Coordination		2					4		
Queue Length Observations		2						11	
Video Documentation		4			40				
Total Hours Task 2	0	8	0	0	40	0	4	11	
Subtotal Task 2	\$ -	\$ 1,440.00	\$ -	\$ -	\$ 5,040.00	\$ -	\$ 368.00	\$ 605.00	\$ 7,453.00
Task 3. Additional Traffic Analysis									
SimTraffic Analysis & Results Documentation	4	40			16		140		
Total Hours Task 3	4	40	0	0	16	0	140	0	
Subtotal Task 3	\$ 864.00	\$ 7,200.00	\$ -	\$ -	\$ 2,016.00	\$ -	\$ 12,880.00	\$ -	\$ 22,960.00
Task 4. Research on Queue Jump Implementatoin									
Research, Summary Memo, and Graphic PDF of Signal Timing	16	24	8						
Total Hours Task 4	16	24	8	0	0	0	0	0	
Subtotal Task 4	\$ 3,456.00	\$ 4,320.00	\$ 1,632.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,408.00
Task 5. Public Outreach									
Updating public outreach collateral and coordination	4			14		30	3		
Total Hours Task 4	4	0	0	14	0	30	3	0	
Subtotal Task 4	\$ 864.00	\$ -	\$ -	\$ 2,184.00	\$ -	\$ 3,120.00	\$ 276.00	\$ -	\$ 6,444.00
Hours	36	84	8	18	56	30	155	11	398
Apex Labor Costs	\$ 7,776.00	\$ 15,120.00	\$ 1,632.00	\$ 2,808.00	\$ 7,056.00	\$ 3,120.00	\$ 14,260.00	\$ 605.00	\$ 52,377.00
Traffic Data Collection (4 Intersections)									\$ 1,200.00
Total Fee Estimate									\$ 53,577.00

CONSULTANT TEAM MEMBERSPrime Consultant: Apex Design, PC

List ALL potential firm personnel titles/classification that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal	Contract management, general project oversight, quality review, public involvement participation, business engagement, and project design troubleshooting.	\$ 240
Senior ITS Engineer III	Full responsibility for large, complex projects or a number of large projects. Provides direction for ITS engineering drawings, analysis, preparation of specifications and engineering estimates.	\$ 224
Senior Transportation Engineer III	Full responsibility for large, complex projects or a number of large projects. Provides direction for transportation engineering drawings, analysis and report preparation, preparation of specifications and engineering estimates.	\$ 216
Senior Project Manager	Full responsibility for large, complex projects or a number of large projects. Provides direction for engineering drawings, analysis and report preparation, preparation of specifications and engineering estimates.	\$ 204
Senior Transportation Engineer II	Contract management and general project oversight. Applies standard engineering techniques and procedures, professional judgment to make modifications or execute complex features or solutions on projects.	\$ 180
Senior Civil Engineer	Manages and performs technical tasks, preparation of engineering drawings, analysis, reports and specifications.	\$ 164
Senior ITS Engineer	Preparation of ITS engineering concepts, analysis, report preparation, design, and preparation of specifications and engineering estimates. Directs EIT work tasks.	\$ 160
Senior Transportation Planner II	Project management, applies planning methods and procedures, professional judgment to make modifications or provide solutions on multimodal transportation projects. Public outreach, stakeholder engagement and consensus building.	\$ 156
Senior ITS Specialist	Providing technical expertise for traffic and ITS tasks, overseeing and delivering projects, field work, analysis, preparation of plans, specification, estimates, and schedules.	\$ 152
Senior Transportation Engineer	Preparation of traffic and transportation engineering analysis, design, and report preparation, preparation of specifications and engineering estimates. Directs EIT work tasks.	\$ 150
Transportation Engineer II	Preparation of engineering drawings, analysis and report preparation.	\$ 146
Construction Engineer II	Performs and supervises complex construction tasks. Professionally licensed with technical knowledge of engineering specifications and constructions quality requirements.	\$ 142
Construction Manager	Creates and manages construction schedules; Performs pre-and post-installation field reviews; shares lessons learned from installations, manages integration and testing in field.	\$ 136
Data Services Manager	Coordinates and collects traffic and transportation data. Reviews and summarizes data for use in engineering evaluations.	\$ 136
ITS Engineer	Preparation of engineering drawings, analysis and report preparation for ITS specific projects.	\$ 126

Prime Consultant: Apex Design, PC (cont.)

List ALL potential firm personnel titles/classification that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Transportation Engineer	Preparation of engineering drawings, analysis and report preparation.	\$ 126
ITS Construction Specialist	Providing field reconnaissance, remote support, design clarifications for ITS tasks, overseeing and delivering projects, field work, analysis, preparation of plans, specification, estimates, and	\$ 126
Senior Construction Inspector	Performs and supervises complex construction tasks. Thorough technical knowledge of testing requirements.	\$ 126
Senior TIM Coordinator	Manage and/or staff traffic management center	\$ 110
Transportation Planner	Supports preparation of technical analysis, data collection, GIS mapping, meeting and project graphics, and report preparation.	\$ 104
EIT III	Performs engineering analysis, design and drafting assignments under the general direction of a licensed professional engineer.	\$ 104
EIT II	Performs engineering analysis, design and drafting assignments under the general direction of a licensed professional engineer.	\$ 98
Technical Specialist I	Field reconnaissance; design plans, specifications; typical details; cost estimating; remote support; design clarifications; field revisions; as-builts.	\$ 96
EIT	Performs engineering analysis, design and drafting assignments under the general direction of a licensed professional engineer.	\$ 92
Construction Engineer	Performs and supervises complex construction tasks. Professionally licensed with technical knowledge of engineering specifications and constructions quality requirements.	\$ 90
Construction Inspector	Provides oversight of construction projects, monitoring progress and ensuring adherence to contract and subcontract terms, performance, quality requirements and engineering specification.	\$ 90
Data Analyst	Performs data analysis and reporting	\$ 88
Junior Transportation Planner	Supports preparation of technical analysis, data collection, GIS mapping, meeting and project graphics, and report preparation.	\$ 72
Intern	Performs data collection, analysis, and drafting assignments under the direction of professional staff	\$ 50
Project Administrator	Responsible for all accounting aspects of project.	\$ 134
Project Assistant	Performs word processing, report preparation, specifications, mailings and reproduction. Provides invoicing support and contract management.	\$ 90
Administrative Assistant	Performs word processing, report preparation, specifications, mailings and reproduction.	\$ 60

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: ~ 2.9.

The City will not compensate the consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproductions, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

REIMBURSABLE EXPENSESPrime Consultant: Apex Design, PC

The additional expenses of the consultant reimbursable by the City shall include:

1. Actual cost of reproduction of drawings and specifications requested by the City.
2. Travel/transportation costs shall not be reimbursable by the City for Prime Consultants.

Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	<u>\$0.10</u> / each
Copies (8 1/2 x 14")	<u>\$0.20</u> / each
Red-line copies	<u>\$5.00</u> / S.F.
Reproducibles	<u>\$2.00</u> / page

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Felsburg Holt & Ullevig

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal II	Senior Oversight, QA/QC, Team and Task Leadership	\$240
Associate	Team and Task Leadership	\$210
Sr Environmental Scientist/ Planner	Task Leadership, Environmental	\$190
Environmental Scientist/ Planner IV	Task Leadership, Environmental	\$155
Environmental Scientist/ Planner III	Task Leadership, Environmental	\$130
Environmental Scientist/ Planner II	Environmental	\$115
Environmental Scientist/ Planner I	Environmental	\$105
Transportation Planner IV	Task Leadership, Transportation Planning	\$155
Transportation Planner III	Transportation Planning	\$130
Transportation Planner II	Transportation Planning	\$115
Transportation Planner I	Transportation Planning	\$105
Sr. Engineer	Team and Task Leadership, Engineering	\$195
Engineer V	Task Leadership, Engineering	\$175
Engineer IV	Task Leadership, Engineering	\$155
Engineer III	Task Leadership, Engineering	\$130
Engineer II	Engineering	\$115
Engineer I	Engineering	\$105

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.9.

The City will not compensate the consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

REIMBURSABLE EXPENSESSub-Consultant: Felsburg Holt & Ullevig

The additional expenses of the consultant reimbursable by the City shall include:

1. Actual cost of reproduction of drawings and specifications requested by the City.
2. Travel/transportation costs shall not be reimbursable by the City for Prime Consultants.

Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>.19</u> / each
Copies (8 1/2 x 14")	\$ <u>.19</u> / each
Red-line copies	\$ <u>.31</u> / S.F.
Reproducibles \$ <u>.19</u> / page	

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Harris Kocher Engineering Group, Inc. DBA Harris Kocher Smith

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal	Manages firm, department staffing, QA/QC procedures	\$195.00
Associate Principal	Manages firm, department staffing, QA/QC procedures	\$175.00
Department Manager	Responsible for project schedule and budget, project management	\$160.00
Senior Project Manager	Responsible for project schedule and budget, project management	\$155.00
Project Manager	Responsible for project schedule and budget, project management	\$145.00
Senior Project Engineer	Responsible for engineering design of project, task assignments	\$135.00
Project Engineer	Responsible engineer-in-charge, responsible for quality of deliverables	\$130.00
Design Engineer	Technical designer and draftsperson	\$120.00
Engineering Technician	Draftsperson	\$105.00
Dry Utility Coordinator	Coordination of utility services for site	\$105.00
Construction Observer	Perform spot check as required to confirm conformance	\$110.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.0.

The City will not compensate the consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

REIMBURSABLE EXPENSES

Sub-Consultant: Harris Kocher Engineering Group, Inc. DBA Harris Kocher Smith

The additional expenses of the consultant reimbursable by the City shall include:

- 3. Actual cost of reproduction of drawings and specifications requested by the City.
- 4. Travel/transportation costs shall not be reimbursable by the City for Prime Consultants.

Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>.045</u> (bw) / each
Copies (8 1/2 x 14")	\$ <u>.065</u> (bw) / each
Red-line copies	\$ <u>4.46</u> (color) / S.F.
Reproducibles	\$ <u>.045</u> (bw) / page

REIMBURSABLE EXPENSES

Prime Consultant: HDR Engineering, Inc.

The additional expenses of the consultant reimbursable by the City shall include:

1. Actual cost of reproduction of drawings and specifications requested by the City.
2. Travel/transportation costs shall not be reimbursable by the City for Prime Consultants.

Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>0.05</u> / each
Copies (8 1/2 x 14")	\$ <u>0.05</u> / each
Red-line copies	\$ <u>1.00</u> / S.F.
Reproducibles	\$ <u>0.15</u> / page

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Yeh and Associates, Inc.

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal	Ensure project receives all needed support. Review Schedule, budget.	\$210.00
Senior Project Manager	Responsible for day to day management of project	\$190.00
Project Manager	Responsible for day to day management of limited scope projects	\$160.00
Sr. Engineer/Geologist	Performs engineering/geological investigations.	\$140.00
Project Engineer/Geologist	Performs investigations, prepares reports.	\$120.00
Staff Engineer/Geologist	Performs calculations, sketches, checks drawings supplied by others.	\$105.00
Engineer or Geologist Intern	Performs calculations, sketches, and work with the supervision a engineer.	\$65.00
Resident Construction Engineer	Responsible for managing, scheduling, and delivering construction projects. Licensed	\$185.00
Construction Manager	Responsible for day to day management of limited scope projects Non-licensed	\$160.00
Construction Observer 3	Inspects construction, submits daily field reports.	\$130.00
Construction Observer 2	Provide Construction Inspection services, written field reports	\$115.00
Construction Observer 1	Provide Construction Inspection services, written field reports	\$105.00
Technician Leader/Supervisor	Provides quality control for field project documentation	\$133.50
Laboratory Supervisor	Organizes and oversees all lab activities for materials testing.	\$115.00
Technician 3	Conducts tests on soils, concrete, asphalt. Fully certified	\$90.00
Technician 2	Samples and tests asphalt, concrete, aggregate, and soils.	\$80.00
Technician 1	Samples and tests asphalt, concrete, aggregate, and soils.	\$70.00
Graphics/CAD specialist	Prepares conceptual studies and designs	\$135.00
Cad Technician	Prepares studies and designs into electronic files	\$80.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.86

The City will not compensate the consultant for expenses such as postage, mileage, parking, or telephone costs.

Reproduction, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager.

Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc.

are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

REIMBURSABLE EXPENSESSub-Consultant: Yeh and Associates, Inc.

The additional expenses of the consultant reimbursable by the City shall include:

1. Actual cost of reproduction of drawings and specifications requested by the City.
2. Travel/transportation costs shall not be reimbursable by the City for Prime Consultants.

*All reimbursable expenses will need the approval by the City before being charged***Actual Costs**

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>N/A</u> / each
Copies (8 1/2 x 14")	\$ <u>N/A</u> / each
Red-line copies	\$ <u>N/A</u> / S.F.
Reproducibles \$ _____ / page	At Cost if outsourced
Outside Vendors (Drilling, Traffic Control, Outside Lab, etc.)	At Cost Plus 10%

SUB-CONSULTANT TEAM MEMBERSFirm Name: Goodbee & Associates, Inc.

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
President	Directs all aspects of the firm's operations	\$185
Principal	Directs all aspects of the firm's operations	\$185
Project Manager III	Leads and reviews technical work	\$150
Project Manager II	Leads and reviews technical work	\$135
Project Manager I	Leads and reviews technical work	\$125
Landscape Architect (Principal)	Leads and reviews technical work	\$175
Landscape Architect III	Leads and reviews technical work	\$150
Landscape Architect II	Leads and reviews technical work	\$130
Landscape Architect I	Leads and reviews technical work	\$110
Designer III	Completes technical work under direction of a PM/LA	\$115
Designer II	Completes technical work under direction of a PM/LA	\$110
Designer I	Completes technical work under direction of a PM/LA	\$100
CAD II	Completes technical work under direction of a PM/LA	\$100
CAD I	Completes technical work under direction of a PM/LA	\$80
SUE Field Manager	Leads and reviews field work	\$150
SUE Senior Technician	Leads and completes field work	\$130
SUE Technician II	Completes field work under direction of manager	\$110
SUE Technician I	Completes field work under direction of manager	\$90
SUE Junior Technician	Completes field work under direction of manager	\$70
Survey Manager	Leads and reviews field work	\$145
Survey Party Chief	Leads and completes field work	\$125
Survey Technician II	Completes field work under direction of manager	\$95
Survey Technician I	Completes field work under direction of manager	\$80
Administrator	Bookkeeping and general administration	\$110
Administrative Assistant	General administration	\$80

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.1.

The City will not compensate the consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

REIMBURSABLE EXPENSES

Sub-Consultant: Goodbee & Associates, Inc.

The additional expense of the consultant reimbursable by the City shall include:

Actual cost of reproduction of drawings and specifications requested by the City.

Travel/transportation costs shall not be reimbursable by the City for Consultants.

Actual Costs

Item

Copies (8 1/2 x 11")

Copies (8 1/2 x 14")

Red-line copies

Reproducibles

Charge Rate

\$ at cost / each

\$ at cost / each

\$ at cost / each

\$ at cost / each

SUB-CONSULTANT TEAM MEMBERS

Firm Name: ACL, Inc.

Category: _____

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Resource assignment, QA/QC, client coordination	\$178.00
Senior Transportation Specialist	Project/task mgmt., design, studies, reports, QC	\$173.00
Senior Project Manager	Project/task mgmt., budgets, design, specs, QC	\$168.00
Project Manager	Task management, design, specs, QC	\$159.00
Engineer V	Design, drawings, studies, specs, estimates, reports	\$150.00
Engineer IV	Design, drawings, studies, specs, estimates, reports	\$141.00
Engineer III	Design, drawings, studies, specs, estimates, reports	\$132.00
Engineer II	Design, drawings, studies, reports	\$123.00
Engineer I	Design, drawings, studies, reports	\$114.00
Senior Designer	CADD, plan production, drawings, exhibits, studies	\$112.00
Designer II	CADD, plan production, drawings, exhibits	\$106.00
Designer I	CADD, plan production, drawings	\$100.00
Administrative Assistant	Administrative support	\$ 96.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.6

All reimbursable expenses are subject to the review and approval of the City. The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Mileage: Reimbursable at the current IRS Business Rate ONLY when Consultant is required to drive to a project located outside the City and County of Denver Boundary.
- (2) Actual cost of reproducing and printing reports, drawings, specifications and other work products, and the associated cost for shipping and handling. These reimbursable expenses pertain only to requests made to the Consultant from the City, and exclude intra-office printing, scanning and reproduction required by the Consultant to complete the work.
- (3) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e. aerial photography) and which are provided especially under this Agreement for the benefit of the City.