

## **SECOND AMENDATORY DESIGN SERVICES AGREEMENT**

**THIS SECOND AMENDATORY DESIGN SERVICES AGREEMENT** is entered into between the **CITY AND COUNTY OF DENVER** (the “City”), a municipal corporation of the State of Colorado, and **PARSONS TRANSPORTATION GROUP INC.** (the “Design Consultant” or “Consultant”), an Illinois corporation authorized to do business in Colorado, whose address is 1776 Lincoln St., Suite 600, Denver, Colorado 80203, (collectively, “the Parties”).

### **RECITALS:**

**A.** The Parties entered into a Design Services Agreement dated October 21, 2020, and an Amendatory Design Services Agreement dated December 9, 2022, (collectively, the “Agreement”) to perform, and complete all of the services and produce all the deliverables set forth on Exhibit A, the Scope of Work/Budget, to the City’s satisfaction.

**B.** The Parties wish to amend the Agreement to update Section 3.01-fee for basic services, update Section 3.02-reimbursable expenses, increase the maximum contract amount, update Section 5.25-notices, add Section 5.29-Compliance with Denver Wage Laws, and update the scope of work exhibit.

**NOW THEREFORE**, in consideration of the premises and the Parties’ mutual covenants and obligations, the Parties agree as follows:

1. Section 3 of the Agreement entitled “**COMPENSATION, PAYMENT, AND FUNDING**”, Subsection **3.01 “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 **TWENTY-THREE MILLION ONE HUNDRED SIXTEEN THOUSAND FIVE HUNDRED THIRTY-ONE DOLLARS AND ZERO CENTS (\$23,116,531.00)** for all basic services in accordance with the scope of services set forth in **Exhibit A, Exhibit A-1 and Exhibit A-2**, and the corresponding billing rates and project budget stated in **Exhibits B and B-1**. The rates in **Exhibit B** shall apply to those services set forth in **Exhibit A**, while the rates in **Exhibit B-1** shall apply to those services set forth in **Exhibit A-1 and Exhibit A-2**. 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.”

2. Section 3 of the Agreement entitled "**COMPENSATION, PAYMENT, AND FUNDING**", Subsection **3.02**. "**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**, 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 **ONE MILLION ONE HUNDRED SIXTY-FOUR THOUSAND FOUR HUNDRED FIFTY-EIGHT DOLLARS AND ZERO CENTS (\$1,164,458.00)** unless an additional amount is approved by the Director 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. The rates in **Exhibit B-1** shall apply to reimbursable expenses authorized and approved after the effective date of this Amendatory Agreement."

3. Section 3 of the Agreement entitled "**COMPENSATION, PAYMENT, AND FUNDING**", Subsection **3.05 (a)**, "**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 **TWENTY-FIVE MILLION TWO HUNDRED TWENTY THOUSAND NINE HUNDRED EIGHTY-NINE DOLLARS AND ZERO CENTS (\$25,220,989.00)** (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 **Exhibit A, Exhibit A-1 and Exhibit A-2**. Any services performed beyond those set forth therein are performed at Design Consultant's risk and without authorization under the Agreement."

4. Section 5 of the Agreement entitled "**GENERAL PROVISIONS**", subsection 5.25 "**Notices.**" is hereby deleted in its entirety and replaced with:

**"5.25 Notices.** Notices, bills, invoices or reports required by this Agreement shall be sufficiently delivered if sent in the United States mail, postage prepaid, to the Parties at the following addresses:

to the City: Executive Director of Department of Transportation and Infrastructure or Designee  
201 West Colfax Avenue, Dept. 608  
Denver, Colorado 80202

to the Design Consultant:

Parsons Transportation Group Inc.  
1776 Lincoln St. Suite 600  
Denver, CO 80203

with a copy to:

Parson Transportation Group, Inc.  
5827 Trinity Parkway  
Centreville, Virginia 20120

The addresses may be changed by the Parties by written notice.”

5. Section 5 of the Agreement entitled “**GENERAL PROVISIONS**”, subsection 5.29 “**Compliance With Denver Wage Laws.**” is hereby added to the Design Services Agreement as follows:

**“5.29 Compliance With Denver Wage Laws.** To the extent applicable to the Design Consultant ’s provision of Services hereunder, the Design Consultant shall comply with, and agrees to be bound by, all rules, regulations, requirements, conditions, and City determinations regarding the City’s Minimum Wage and Civil Wage Theft Ordinances, Sections 58-1 through 58-26 D.R.M.C., including, but not limited to, the requirement that every covered worker shall be paid all earned wages under applicable state, federal, and city law in accordance with the foregoing D.R.M.C. Sections. By executing this Agreement, the Design Consultant expressly acknowledges that the Design Consultant is aware of the requirements of the City’s Minimum Wage and Civil Wage Theft Ordinances and that any failure by the Design Consultant , or any other individual or entity acting subject to this Agreement, to strictly comply with the foregoing D.R.M.C. Sections shall result in the penalties and other remedies authorized therein.”

6. All references in the original Agreement to **Exhibit A** now refer to **Exhibit A**, **Exhibit A-1** and **Exhibit A-2**. **Exhibit A-2** is attached and incorporated by reference herein.

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

8. This Second Amendatory Design Services Agreement will not be 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 the City Council.

**[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK.]**

**Contract Control Number:**  
**Contractor Name:**

DOTI-202477103-02 [202055954-02]  
PARSONS TRANSPORTATION GROUP INC.

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:

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**APPROVED AS TO FORM:**

Attorney for the City and County of Denver

By:

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**REGISTERED AND COUNTERSIGNED:**

By:

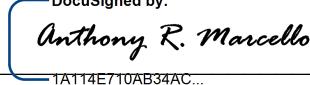
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By:

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**Contract Control Number:**  
**Contractor Name:**

DOTI-202477103-02 [202055954-02]  
PARSONS TRANSPORTATION GROUP INC.

By:   
1A114E710AB34AC...

Name: Anthony R. Marcello  
(please print)

Title: Vice President  
(please print)

ATTEST: [if required]

By: \_\_\_\_\_

Name: \_\_\_\_\_  
(please print)

Title: \_\_\_\_\_  
(please print)



October 11, 2024

Jonathan Stewart  
 East Colfax Ave BRT Project Director  
 City and County of Denver Department of Transportation and Infrastructure

Subject: **East Colfax Ave BRT - Denver - Parsons Change Order Request**

Dear Jon,

Please review this change order request for completed out-of-scope work and for requested additional design services. A summary of design fee estimates is provided below and supporting documentation is attached. All work referenced is in the City and County of Denver.

Item Description	Additional Fee
Parsons Change Log	\$ 242,300.00
AECOM Change	\$ 38,005.00
PK Electrical Change	\$ 44,000.00
Goodbee Change	\$ 273,777.00
Mayfair Town Center	\$ 208,005.00
CPTED	\$ 42,200.00
St Paul St to Jackson St Trunk Replacement	\$ 40,900.00
Ogden St Bikeway Extension	\$ 25,462.00
Green Infrastructure	\$ 48,500.00
Full Signal Replacement	\$ 67,200.00
MIG DSDC	\$ 49,625.00
<b>Total</b>	<b>\$ 1,079,974.00</b>

Please call if you have questions or require additional information. I can be reached at 303-764-1919.

Sincerely,

**PARSONS**

A handwritten signature in blue ink that reads 'James Moore'.

James Moore, PE  
 Senior Engineering Manager

Attachments: Parsons Design Change Log, Design Scope and Fees

# East Colfax Ave BRT Final Design Change Log

9/23/2024

Parsons Change Log (January 2023-September 2024)																		
Item #	Activity Description	Amber Haines	James Moore	Hilla Clark	Albert Herrera	Kacie Patterson	Brad Montgomery	Devin McDaniel	Andrew Moore	Asa Miller	Alex Abreu	Hayes Heil	Adam Borsch	Jason Frietas	Brent Heesemann	Katie Jones	Costs	
		\$248.00	\$234.00	\$206.00	\$242.00	\$143.00	\$129.00	\$165.00	\$198.00	\$131.00	\$92.00	\$106.00	\$140.00	\$182.00	\$180.00	\$139.00		
1.00	PHOTOVOLTAICS	0	0	0	0	0	5	8	0	0	0	0	0	0	0	0	\$ 1,965.00	
	Research						3	6									\$ 1,377.00	
	Support Materials & Presentation						1	1									\$ 294.00	
	Meetings						1	1									\$ 294.00	
2.00	SNOWMELT SYSTEM	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	\$ 1,161.00	
	Research						6										\$ 774.00	
	Support Materials & Presentation						2										\$ 258.00	
	Meetings						1										\$ 129.00	
3.00	SECONDARY ACCESS AT PLATFORMS	0	4	0	3	3	0	0	0	6	0	0	0	0	0	0	\$ 2,877.00	
	Design/QC		2		3	3											\$ 1,623.00	
	CADD											6					\$ 786.00	
	Meetings		2														\$ 468.00	
4.00	UN SIGNALIZED PED CROSSINGS	0	3	0	4	4	0	0	0	6	6	0	4	0	0	0	\$ 4,140.00	
	Design/QC				4	4							4				\$ 2,100.00	
	CADD										6	6					\$ 1,338.00	
	Meetings		3														\$ 702.00	
5.00	CDOT DESIGN COORDINATION/SCOPING (after 60%)	8	48	0	1	1	1	1	5	0	0	0	0	9	15	0	\$ 19,223.00	
	Design Decision Letters		24						4						4		\$ 7,128.00	
	Scoping Meeting and Prep (after 60%)	2	3														\$ 1,198.00	
	Individual Discipline Meetings	4	4		1	1	1	1	1					1	1		\$ 3,167.00	
	Biweekly Meetings		7														\$ 1,638.00	
	Ped Signal Redesign (TOUCANS/HAWKS) - still unresolved	2	8											8			\$ 3,824.00	
	Pipe Abandonment		2											10			\$ 2,268.00	
6.00	HSIP DESIGN INTEGRATION - GRANT & DOWNING	0	0	0	5	5	0	0	0	8	0	0	0	0	0	0	\$ 2,973.00	
	Design/QC				5	5											\$ 1,925.00	
	CADD									8							\$ 1,048.00	
	Meetings																\$ -	
7.00	MOCK STATION	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 950.00	
	Design/QC	2															\$ 468.00	
	CADD																\$ -	
	Meetings	1	1														\$ 482.00	
8.00	BIKE CROSSING REDESIGN	2	4	0	0	0	0	0	0	0	40	40	20	58	50	20	0	\$ 33,292.00
	Design/QC									20	20	10	40	20	10		\$ 16,560.00	
	CADD								20	20	10		20	10			\$ 10,960.00	
	Revised 2024 Denver Bike Standards												10	10			\$ 3,220.00	
	Meetings	2	4										8				\$ 2,552.00	
9.00	NEPA SHPO TERMINATION/MOA	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 17,856.00	
	Meetings and Coordination with FTA	72															\$ 17,856.00	
10.00	MAYFAIR BID COORDINATION	6	78	0	0	0	0	0	0	0	40	0	0	0	0	0	\$ 23,420.00	
	Initial Mayfair Town Center streetscaping design and quantities (Krameria, Kearney, Leyden)		48								20						\$ 13,072.00	
	Bi-weekly Task Force Meetings and Prep (December 2023/January 2024)	6	20								20						\$ 8,008.00	
	Post-RFC meetings, exhibits, and quantity tabulations		10														\$ 2,340.00	
11.00	COLFAX BID ADDITIONAL DESIGN COORDINATION	2	32	0	0	20	0	0	30	0	0	8	0	0	0	0	\$ 15,894.00	
	Ogden Bikeway/Emerson Alternative/Sidewalk in front of Ogden Evaluation	1	20									8					\$ 6,048.00	
	Vine Street Median	1	2														\$ 716.00	
	Ogden Redesign/QC		10			10			10			10					\$ 5,080.00	
	CADD						10				20						\$ 4,050.00	

# East Colfax Ave BRT Final Design Change Log

9/23/2024

PARSONS CHANGE LOG (January 2023-September 2024)																	
Item #	Activity Description	Amber Haines	James Moore	Hilla Clark	Albert Herrera	Kacie Patterson	Brad Montgomery	Devin McDaniel	Andrew Moore	Asa Miller	Alex Abreu	Hayes Heil	Adam Borsch	Jason Frietas	Brent Heesemann	Katie Jones	Costs
		\$248.00	\$234.00	\$206.00	\$242.00	\$143.00	\$129.00	\$165.00	\$198.00	\$131.00	\$92.00	\$106.00	\$140.00	\$182.00	\$180.00	\$139.00	
12.00	<b>ADDITIONAL LEFT TURN ANALYSIS</b>	0	8	0	12	12	0	0	0	0	0	0	0	10	0	0	\$ 8,312.00
	Design/QC		4		10	10								8			\$ 6,242.00
	Meetings		4		2	2								2			\$ 2,070.00
13.00	<b>INNOVATION LIST/COST ESTIMATING SUPPORT</b>	0	30	0	20	20	0	20	15	0	0	0	0	0	0	0	\$ 20,990.00
	Design/Quantity Revisions (Between 60/90%)		30		20	20		20	15								\$ 20,990.00
14.00	<b>DOWNTOWN BUS PRIORITY COORDINATION</b>	1	1	0	0	0	0	0	0	0	0	0	0	10	0	0	\$ 2,302.00
	Design/Coordination	1	1											10			\$ 2,302.00
15.00	<b>DESIGN/QC AUDITS - 60%, 90%. and 100%</b>	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	\$ 8,800.00
	Comment Responses and Meetings		20	20													\$ 8,800.00
16.00	<i>removed</i>																\$ -
17.00	<b>BLUEBIRD THEATRE CIVIL REDESIGN</b>	0	12	0	0	20	0	0	0	20	0	0	0	0	0	0	\$ 8,288.00
	Design/QC		10			10			10								\$ 5,080.00
	CADD					10				10							\$ 2,740.00
	Meetings		2														\$ 468.00
18.00	<b>ART GLASS COORDINATION</b>	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 1,170.00
	Meetings/Sub Coordination		5														\$ 1,170.00
19.00	<b>REDESIGN FOR APPROVED DEVELOPMENT PLANS (NDCs)</b>	0	12	0	0	32	0	0	0	0	40	0	0	40	0	0	\$ 18,344.00
	Design/QC		10			20				20			20				\$ 10,680.00
	CADD					10				20			20				\$ 6,910.00
	Meetings		2			2											\$ 754.00
20.00	<b>PROCORE SETUP, ADDITIONAL CONSTRUCTION TF MEETINGS</b>	0	20	0	0	20	0	0	20	0	0	0	0	0	0	0	\$ 11,500.00
	Meetings		20			20			20								\$ 11,500.00
21.00	<b>SAFETY AND SECURITY DESIGN VERIFICATION</b>	2	14	0	0	5	0	0	0	0	0	0	0	0	0	0	\$ 4,487.00
	Verification Checklists		10			5											\$ 3,055.00
	Meetings	2	4														\$ 1,432.00
22.00	<b>REVISIONS TO PARKING SIGNAGE AND BIKE PARKING (post-RFC)</b>	0	7	0	0	0	0	0	0	0	0	0	0	42	0	0	\$ 9,282.00
	Design/QC		5											20			\$ 4,810.00
	CADD													20			\$ 3,640.00
	Meetings		2											2			\$ 832.00
23.00	<b>PROJECT CONSTRUCTION SIGN DESIGN (FTA request)</b>	0	2	0	0	0	0	0	0	0	0	0	0	8	0	0	\$ 1,924.00
	Design/QC		2											4			\$ 1,196.00
	CADD													4			\$ 728.00
23.00	<b>REVISIONS TO STORM SEWER (post-RFC) - remove/add back design</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	90	50	\$ 23,150.00
	Remove System A and D trunk lines													50	30		\$ 13,170.00
	Add back System D trunk line													40	20		\$ 9,980.00
	<b>TOTAL CHANGE LOG ESTIMATE</b>																<b>\$ 242,300.00</b>

## Mayfair Town Center Design Fee

Firm	Scope	Fee	Notes
PKE	Pedestrian lighting layout and design	\$27,200	See PKE details attached. Assumes 2 submittals and 1 CRM. Based on current Exhibit B approved rates and classifications.
Goodbee	SUE	\$33,955	See Goodbee details attached. Assumes 2 submittals and 1 CRM. Based on current Exhibit B approved rates and classifications.
HCL	Topographic survey	\$13,745	See HCL details attached. Assumes 2 submittals and 1 CRM. Based on current Exhibit B approved rates and classifications.
MIG	Streetscape - trees	\$53,405	See MIG details attached. Assumes 2 submittals and 1 CRM. Based on current Exhibit B approved rates and classifications.
Parsons	Civil design - drainage, curbs/bulbouts, sidewalks	\$79,700	See Parsons details attached. Assumes 2 submittals and 1 CRM. Based on current Exhibit B approved rates and classifications.
<b>Total Design Fee</b>		<b>\$208,005</b>	



**PK Electrical, Inc.**

ENGINEERING | DESIGN | CONSULTING

681 Sierra Rose Drive, Suite B | Reno, NV 89511 | p. 775.826.9010 ext. 8816  
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | p. 720.481.3290  
pkelectrical.com

# Contract Proposal

## CP24096R3

Proposal For	From	May 21, 2024
James Moore, PE Parsons Transportation Group 1776 Lincoln Street, Suite 600 Denver, CO 80203 james.moore@parsons.com	Alan Wiskus Principal	
	<b>Project</b>	
	City of Denver East Colfax BRT #684205	

### Project Description

The City & County of Denver East Colfax Avenue Bus Rapid Transit project is a BRT project from Broadway to Yosemite with a dedicated transit lane in each direction.

#### ADDITIONAL DESIGN REQUEST:

The additional design request is for 100% design of pedestrian lights for the Mayfair Town Center, which extends south of Colfax down Kearney, Krameria and Leyden to 14th (BID boundary).

### Scope of Services

#### ASSUMPTIONS ON SCOPE TO INCLUDE:

- 2 submittals (90%, 100%)
- Photometric calculations, photometric plans for Envision requirements
- New meters installed in main BRT project at Krameria intersection will feed new ped lights (no new meter design)
- New ped lighting along Kearney, Krameria, and Leyden Streets from Colfax to 14th Ave.
- New ped lights will be same fixture type/design as used on Colfax
- At least 1 comment review meeting with BID after a 90% set.
- Branch circuit design for new lighting, including controls, voltage drop calcs, conduit/wire sizing
- Power and branch circuit design for potentially 2 new irrigation controllers for new landscaping along indicated side streets.
- Formal QAQC reviews using same process as Colfax BRT project.
- Quantities tables
- Design coordination meetings will be virtual

#### EXCLUSIONS:

- DSDC Services
- No new specifications, Colfax BRT project specs to remain for this work
- SUE and other utility coordination by others
- Additional submittals besides these indicated
- Cost Estimate
- Fiber and other telecom design

Fee and Structure	Amount
Add Service - Design Ped Lights Mayfair Town Center	Time & Expense
	<b>Total Amount</b> <b>\$27,200.00</b>

### Terms and Conditions

Per original Terms and Conditions.

#### Authorization and Acceptance

(Acknowledgment of Concurrence with the foregoing)

Alan Wiskus, Principal

James Moore, PE, Principal Project Engineer

Date



March 29, 2024, revised May 22, 2024

Amber Haines, PE  
Parsons  
Via email [amber.haines@parsons.com](mailto:amber.haines@parsons.com)

**RE: Mayfair Town Center Design – Subsurface Utility Engineering**

Dear Ms. Haines:

Goodbee & Associates, Inc. is pleased to present this proposal for professional services for the above project to Parsons ("Client"). This proposal is based on information provided to Goodbee by email on March 21, 2024.

**PROJECT UNDERSTANDING AND SCOPE OF WORK**

This project consists of streetscape improvements for the Mayfair Town Center, which extends south of Colfax down Kearney, Krameria, and Leyden to 14<sup>th</sup> Avenue in Denver. Goodbee will provide the following subsurface utility engineering (SUE) services.

***Project Management***

- Project meetings – assume 3 design team meetings.
- Progress reports – submit progress report and invoice, assume up to 4 invoices.

***Subsurface Utility Engineering (SUE)***

- Goodbee will perform SUE services in accordance with C.R.S. Article 1.5 of Section 9 and the recommended practices and procedures described in ASCE publication CI/ASCE 38-22 "Standard Guideline for Investigating and Documenting Existing Utilities".
- Utility Record Data Collection - Goodbee will submit CO 811 SUE notification. If utility companies do not provide records in 10 days, Goodbee will follow up utility companies to request records.  
Note that utility contacts identified during records collection will likely be different than utility contacts developed during the utility coordination process.
- Utility geophysical investigations (SUE QLB) – Goodbee will initiate ASCE 38-22 Quality Level B (QLB) investigations for underground utilities noted in the project area. The QLB investigation area is along Kearney, Krameria, and Leyden between Colfax and 14th from 2' in front of the existing gutter pan to ROW, both sides of the street and noted in green outline in the graphic that follows.

Goodbee will complete geophysical investigations to designate the horizontal location of underground utilities. Equipment generally includes RD 8100, rodger/sonde, and other devices as appropriate for field conditions. Utility service lines will be investigated where ground-level access is available. CCTV services to locate sanitary mains and services are excluded from this scope of work. Quality Level B designating of Zayo fiber optic facilities is excluded due to facility access restrictions. These facilities will be shown as QLD. Survey of utility owner provided marks will be incorporated when present.

Based on the anticipated sidewalk/soil conditions based on previous investigations in the project area, GPR investigations are excluded from this scope of work.

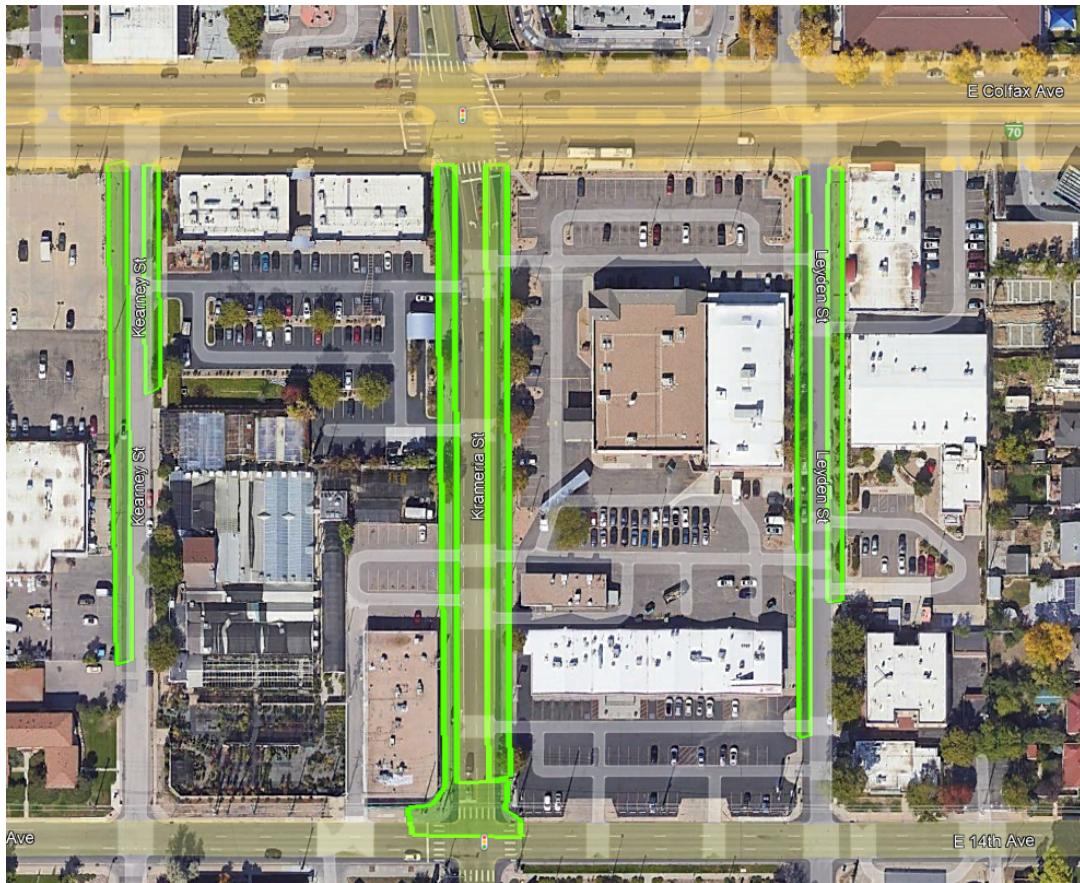
The Client will provide Project Control Diagram (PCD) and/or project survey control (.jxl or job file) and associated base mapping to Goodbee prior to the beginning of field work. Goodbee's survey technician will collect visible utility features associated with SUE markings, utility appurtenances, and utility poles. SUE investigations will be surveyed to 0.2' horizontal accuracy using Trimble R12i GPS receiver and Trimble TSC-5/7. Trimble Real Time eXtended Network (RTX) will be used in lieu of a

static base station. 3D elements (Storm/Sanitary structures and QLA Test Holes) will be collected with Receiver/Base Station combination and/or Total Station for 0.1' vertical accuracy.

Goodbee will survey electric or communication pole locations and complete associated pole diagrams. Line sag heights and electric voltages are excluded. When access is provided/allowed by utility companies, vaults, maintenance holes, or other accessible subsurface chambers, will be documented and diagrammed using LiDAR or direct survey measurements, including ground-level and invert elevations. Confined space entry is excluded from this scope of work. Goodbee's survey technician will not collect data on open channels, open-air culverts, irrigation ditches, or landscape irrigation systems, as it is assumed those will be collected as part of the project topographic survey provided by others.

Third-Party traffic control will be required for SUE investigations. The traffic control cost is estimated based on past fees and will be invoiced at cost. It is assumed that SUE investigations can be completed during weekday working hours (generally 8-5 Mon - Fri).

#### *SUE QLB Investigation Area*



- Test hole investigations: Goodbee will complete up to **10 QLA test holes** based on locations provided by the client. Goodbee will oversee, survey, and develop test hole data sheets. Goodbee will collect utility type, size, condition, and other notable characteristics in a test hole data sheet.

Vacuum excavation greater than 10-feet is excluded from this scope of work. QLA test holes will be backfilled with appropriate materials per industry standards. Asphalt repair will be completed with DOT-compliant cold-patch asphalt. Should alternative methods of test hole restoration be required, Goodbee will invoice the repairs at cost. Client should notify Goodbee prior to scoping if possibility to encounter and dispose of contaminated soil or water during test hole investigations.

Third-party traffic control will be required for SUE investigations. The traffic control cost is estimated based on past fees and will be invoiced at cost. It is assumed that SUE investigations can be completed during weekday working hours (generally 8-5 Mon - Fri). If CDOT or local agency permit requires night work, Goodbee will invoice at cost.

Goodbee will update existing utility CAD file and SUE Plan with test hole survey data.

- Finalize SUE Plan. The SUE plan set will be signed and stamped by a professional engineer licensed in the state of Colorado and will include associated notes, methodologies, and documentation as part of the deliverable. Per ASCE 38-22, investigation details or notes will be provided on the SUE plan or SUE report depending on the level of complexity.
- Deliverables after geophysical investigations: 2D utility CAD basefile at achieved quality levels and draft SUE plan.
- Deliverables after test hole investigations – Sealed SUE plan with test hole data. Utility ORD basefile.

## **SCHEDULE AND DURATION**

- Assume a 3-month period of performance (assume July 2024 through September 2024).
- Goodbee will provide an estimated field schedule once notice to proceed is received.

## **ESTIMATED FEE**

- Please see attached hours and cost estimate

## **ASSUMPTIONS AND EXCLUSIONS**

- CAD work in MicroStation OpenRoads.
- The SUE Plan set is valid only at the time of field investigations. Should the project occur over an extended duration of time, an additional SUE investigation may be warranted to collect updated existing subsurface utility conditions.
- It is the responsibility of Goodbee to perform due diligence with regards to records research (QLD level of effort) and acquisition of available utility records. Goodbee will further investigate the project area utilizing a suite of geophysical equipment to obtain QLB data. During QLB field work, Goodbee will scan the defined work area using electronic prospecting equipment to search for previously unrecorded utilities. Utilities that are not identified through these efforts will be here forth referred to as "unidentified" utilities. Goodbee is not responsible for designating "unidentified" utilities that were not detected through due diligence and scanning the work area.
- The project will be bid as one construction document package. Should more than one package be requested, additional fees will apply.
- Utility Coordination, utility relocation plans, and water and sanitary design excluded. Note that utility contacts identified during records collection (QLD) will likely be different than utility contacts developed during the utility coordination process that will be completed by others.
- 3D utility model is excluded.

We look forward to delivering this project with you. Should you have any questions or require additional information, please contact me at (303) 667-6985.

Sincerely,  
**GOODBEE & ASSOCIATES, INC.**



Mary Keith Floyd, AICP | President  
Attachments: cost estimate



## Mayfair Town Center - SUE

Scope and Fee Estimate 5/22/2024

Task	Description of Activities /Assumptions	President	Principal	Project Manager IV	Project Manager II	Project Manager I	Project Manager I	Designer I	CAD I	Administrator	SUE Technician III	SUE Technician I			Total Hrs.	Total Cost (2024 Rate Sheet)
		Floyd, Mary Keith	Bijold, Dana	Proper, Chris	Curtis, Linda	Hansen, Marina	Wolken, Zach	White, Kevin	Senesombath, Alison	Kiser, Elizabeth	Cantrelle, Ryan	Sanchez, Jaime				
		\$185/hr	\$185/hr	\$170/hr	\$140/hr	\$130/hr	\$130/hr	\$100/hr	\$80/hr	\$110/hr	\$130/hr	\$90/hr				
Project Mgmt.	Project Meetings (assume 3 meetings)					3	3								6	\$780
	Monthly progress reports and invoicing. Assume 4 invoices.	1				2				4					7	
Subsurface Utility Engineering	Utility Record Data Collection: Goodbee will submit CO 811 SUE notification. If utility companies do not provide records in 10 days, Goodbee will follow up utility companies to request records.					2			4						6	\$580
	Utility Designating (QLB): Complete geophysical investigations to designate the horizontal location of underground utilities. Prepare CAD for use in SUE Plan set and as background files. Begin preparation of draft SUE Plan set.			7	2	8		12			8	24			61	
Final Design - Utilities	Utility Test Holes (QLA): Test hole location plan provided by client. Complete test holes in the quantity noted in ODCs below. Update existing utility CAD file with test hole survey data. Prepare test hole table.			5	4	4	5				8	16			42	\$5,060
	3D Utility Surface - excluded														0	
	Final Sealed SUE Plan			2	4	4		2							12	
<b>SUBTOTAL LABOR</b>		<b>1</b>	<b>2</b>	<b>16</b>	<b>6</b>	<b>23</b>	<b>8</b>	<b>14</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>134</b>	<b>\$15,985</b>

## Other Direct Costs (ODC)

Expense Items	Units	Unit Price	Subtotal
SUE QLB Supplies and Equipment Use Fees (GPR Excluded)	3	\$ 190	\$ 570
SUE QLB Survey Equipment Use Fee	1	\$ 100	\$ 100
SUE QLA Survey Equipment Use Fee	1	\$ 100	\$ 100
Permitting - Assumes Permit fees and Costs are Waived by Agencies, Otherwise Billed At-Cost			
Denver Water Plan Review (or Other Plan Review) - Excluded			
Vendor Items	Units	Unit Price	Subtotal
SUE QLB Traffic Control (Estimated Vendor Charges)	1	\$ 1,400	\$ 1,400
SUE QLA Traffic Control (Estimated Vendor Charges)	2	\$ 1,400	\$ 2,800
SUE QLA Vacuum Excavation (Estimated Vendor Charges)	10	\$ 1,300	\$ 13,000
<b>SUBTOTAL ODCs</b>		<b>\$ 17,970</b>	

Total Estimate = \$ 33,955

Assumptions and Exclusions: see scope letter



HCL Engineering & Surveying, LLC  
5975 S. Quebec St., Suite 200  
Centennial, CO 80111  
[www.hclengineering.com](http://www.hclengineering.com)  
303-773-1605

March 7, 2024

Revised April 3, 2024

Revised April 12, 2024

James Moore  
Parsons  
1776 Lincoln St. Suite 600  
Denver CO, 80203  
[James.moore@parsons.com](mailto:James.moore@parsons.com)  
303-764-1919

**Re: Proposal for Professional Surveying Services – Colfax BRT, Additional Survey at Kearney St, Krameria St, and Leyden St.**

Dear James,

Thank you for allowing us to submit our proposal for the above referenced project. In response to your request for proposal for consulting services, HCL Engineering & Surveying, LLC (HCL), would be pleased to provide the professional surveying services Parsons (Client) require for this project.

**SCOPE OF WORK**

**Item 1 -- Management/QC: \$1,130**

- This task includes QC time, project oversight and time for billing/invoicing.

**Item 2 -- Establish Local Survey Control: \$3,150**

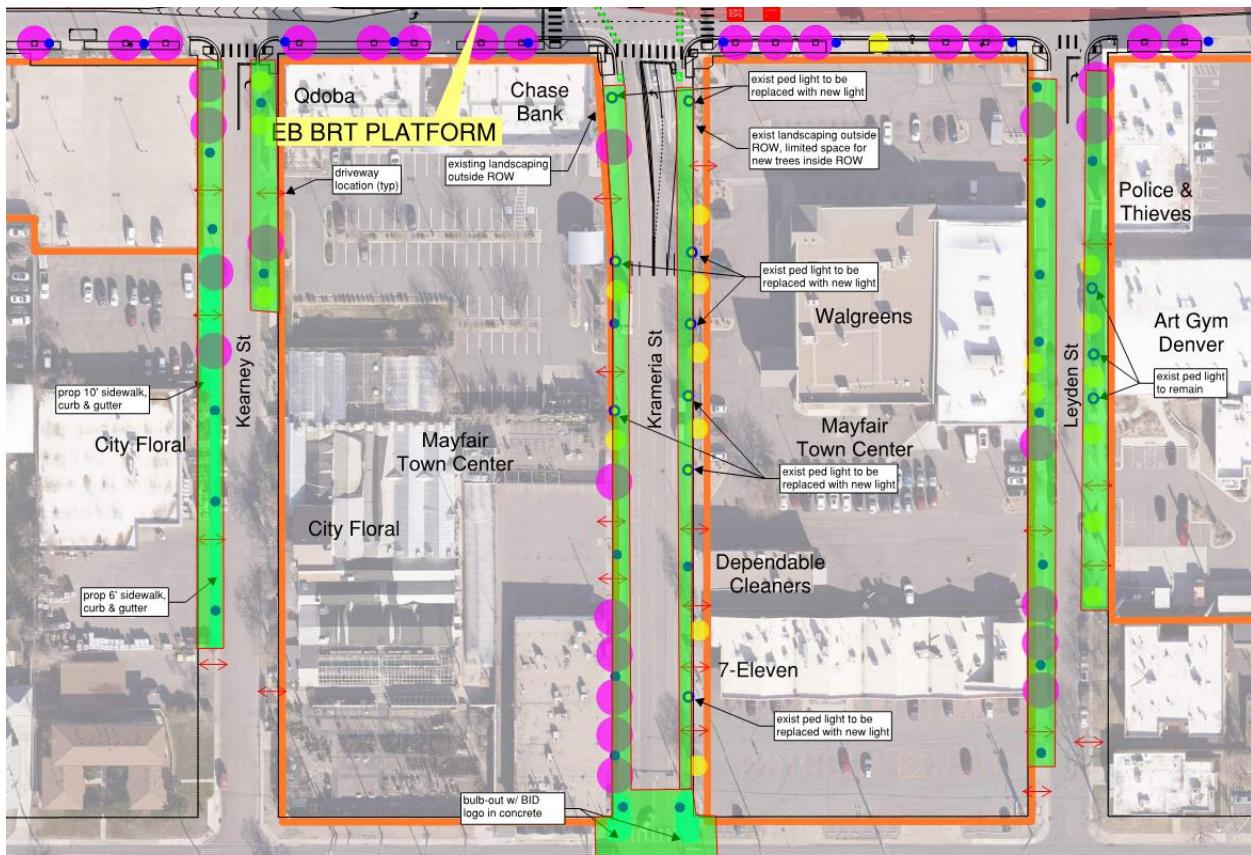
- HCL will establish a coordinate system referenced to the City and County of Denver (CCD) Local Metro Grid. Elevations will be referenced to a City and County of Denver benchmark. HCL will set semi-permanent control points throughout the project for future site construction.

**Item 3 -- Topographic Ground Survey: \$9,465**

HCL will conduct a topographic survey within the project limits noted in green in Exhibit A below and more specifically from 2' in front of the existing gutter pan to ROW, both sides of the street that will include the following items:

- Field verify above ground features, including but not limited to vaults, drives, fences, gates, trees, man-made landscape features, walls, manhole rims, above-ground utility features and adjacent roadways.
- Pavement/flatwork material type, paint stripes and curb and gutter
- Spot elevations on paving and hard surfaces to the nearest 0.01'
- Spot elevations at other surfaces to nearest 0.10'

**EXHIBIT A (Scope Limits):**



**Item 4 – Utility Locates and Survey of Marks:**

- To be completed by others

**DELIVERABLE**

- 3 dimensional AutoCAD 2020 or later CAD electronic file
- Civil 3D surface of topography

**Proposal Exclusions:**

- Land Survey Plat
- Post-construction as-builts are not part of this proposal
- Monumentation of existing property is not part of this scope
- Right-of entry is not part of this scope
- Subsurface Utility Engineering Plans is not part of this proposal
- Title Commitments are not part of this scope
- Survey Control Diagram
- Setting Range Points or Section Corners are not part of this scope
- Manhole inverts

---

### **SCHEDULE**

- HCL will make reasonable accommodations to the agreed upon schedule once an executed notice to proceed is received and all pertinent title documents have been delivered.
- Adverse weather conditions may delay the field work.
- HCL will respond to one set of comments and make minor clarifications on the drawing within 3 business days after they are provided.

### **COMPENSATION**

**TOTAL FEE.....\$13,745**

We sincerely appreciate the opportunity to work with you on this Project. Please let us know if you have any questions or need any further information.

Sincerely,  
HCL Engineering and Surveying, LLC

Julian Sisneros PLS  
Director of Surveying & Mapping

# Mayfair Town Center Streetscapes

## Scope of Work - MIG

The following scope of work describes the tasks required to complete streetscape design for the Mayfair Town Center area. As shown below, this area includes streetscape improvements (back of curb to Right-of-Way) for Kearney, Krameria and Leyden streets, generally between E. Colfax Avenue and 14<sup>th</sup> Avenue.

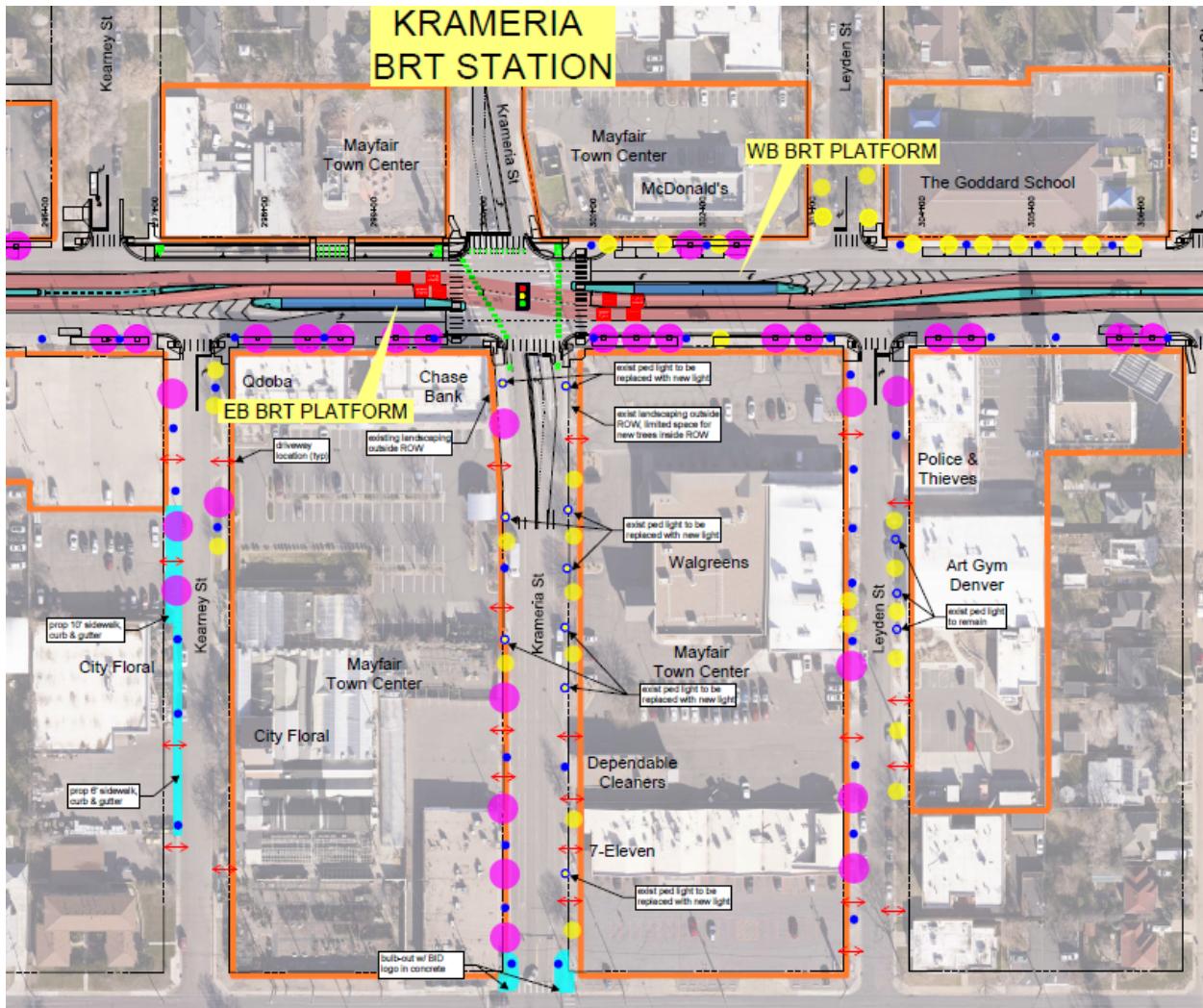


Figure 1: Mayfair Town Center concept design

## Task 1: Collaboration with CMGC

The Consultant will work in conjunction with the CMGC to collaborate on constructability, schedule, and pricing throughout the duration of the project. The Consultant will partner with an integrated design team that will consist of the City, the CMGC, and an independent cost estimator (ICE). The Consultant will provide input on schedule, phasing, constructability, and project quantities throughout the preconstruction phase of the project. The following will be prepared/delivered:

- Attend One (1) meeting with CMGC team to review design intent and costs

## Task 2: 90%/Final PS&E Documents

Based on the conceptual design illustrated in Figure 1 above, MIG will complete the design documents for the streetscape improvements. The design documents will identify paving materials, colors, patterns, and finishes, preferred site furnishings and locations, and street tree and shrub planting design and details. Where appropriate, we will coordinate with City / BID maintenance staff regarding standards for hardscape and landscape materials and products and the City Forester regarding street tree selections.

The following will be prepared/delivered for each submittal (90%, and Final):

- Design Plans
  - Layout and Materials Plans
  - Planting Plans
  - Irrigation Plans
  - Coordination of lighting plans (by others)
- Construction Details and enlargements as needed to communicate design intent.
- Specifications
- Quantities (for Independent Cost Estimate by CM/GC and Owner's Rep)
- One (1) Comment Review Meeting with City staff
- Comment Response and Resolution

## Project Assumptions & Exclusions:

### Assumptions:

- All survey and basemap materials to be provided to MIG in CAD/Microstation 2D format
- A complete topographic survey will be provided by others prior to commencing design.

### Exclusions

- Tree inventory and arborist report

- Soil testing (structural and agronomic)
- Civil engineering and site grading including stormwater mitigation design and calculations
- Documentation of ADA path of travel and preparation of ADA access diagrams; ADA audit
- Structural engineering (including that needed for site walls, stairs, pavement, structures, site amenities)
- Signage design
- Lighting design / photometrics
- Electrical engineering for irrigation
- Site survey
- Site inventory

## Fees

The scope of work described above will be billed on an hourly basis, based on existing MIG hourly rates

Task	Fee
Task 1: Collaboration with CMGC	\$500
Task 2: 90%/Final PS&E documents	\$52,900
<b>Total</b>	<b>\$53,405</b>

**PARSONS Mayfair Town Center Design Fee**

5/28/2024

Sheet Count	Discipline	Hours	Billable Rate/hr	Total Fee
	Drainage Letter	40	\$150	\$6,000
1	Title Sheet	10	\$150	\$1,500
2	CCD Standard Drawings List	3	\$150	\$450
1	Abbreviations	3	\$150	\$450
4	General Notes	4	\$150	\$600
1	Typical Sections	17	\$150	\$2,550
3	SAQ	24	\$150	\$3,600
4	Tabulation of Quantities	80	\$150	\$12,000
1	Survey Tabulation	3	\$150	\$450
3	Removal Plans	100	\$150	\$15,000
3	Roadway Plans	120	\$150	\$18,000
1	Intersection details including inlets (drainage)	50	\$150	\$7,500
2	Roadway Details	12	\$150	\$1,800
	Specifications QA/QC (taken from BRT Spec package)	12	\$150	\$1,800
	PM, Admin, Meetings, Subconsultant Coordination	40	\$200	\$8,000
<b>TOTAL Parsons Fee</b>		518		\$79,700

## CPTED Design Fee

Firm	Scope	Fee	Notes
PKE	Pedestrian lighting layout and design	\$36,200	
Goodbee	SUE	\$0	Current SUE covers these areas
HCL	Topographic survey	\$0	Current survey covers these areas
MIG	Landscape coordination	\$0	100% design shows not landscaping in these areas
Parsons	Civil design and oversight	\$6,000	
<b>Total Design Fee</b>		<b>\$42,200</b>	



**PK Electrical, Inc.**

ENGINEERING | DESIGN | CONSULTING

681 Sierra Rose Drive, Suite B | Reno, NV 89511 | p. 775.826.9010 ext. 8816  
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | p. 720.481.3290  
pkelectrical.com

# Contract Proposal

## CP24214

Proposal For	From	May 30, 2024
James Moore, PE Parsons Transportation Group 1776 Lincoln Street, Suite 600 Denver, CO 80203 james.moore@parsons.com	Alan Wiskus Principal	
	<b>Project</b>	
	City of Denver East Colfax BRT #684205	

### Project Description

The City & County of Denver East Colfax Avenue Bus Rapid Transit project is a BRT project from Broadway to Yosemite with a dedicated transit lane in each direction.

### Scope of Services

#### ASSUMPTIONS ON SCOPE TO INCLUDE:

- 2 submittals (90%, 100%)
- Photometric calculations, photometric plans for Envision requirements
- New meters will feed new ped lights
- New ped lighting along Colfax from Ulster St to Verbena St.
- New ped lights will be same fixture type/design as used on Colfax
- Note only reinstallation of existing city cameras on street lights.
- At least 1 comment review meeting with stakeholders after a 90% set.
- Branch circuit design for new lighting, including controls, voltage drop calcs, conduit/wire sizing
- One Line diagrams for new meter pedestals, new panel schedules
- Formal QAQC reviews using same process as Colfax BRT project.
- Quantities tables
- Design coordination meetings will be virtual

#### EXCLUSIONS:

- No new specifications, Colfax BRT project specs to remain for this work
- SUE and other utility coordination by others
- Additional submittals besides these indicated
- Cost Estimate
- Fiber and other telecom design, including security head end equipment
- Value Engineering
- Construction Support (RFI's, submittal review)

Fee and Structure	Amount
Add Service - CPTED Lighting Improvements Ulster to Verbena	Time & Expense
	<b>Total Amount</b> <b>\$36,200.00</b>

### Terms and Conditions

Per original Terms and Conditions.

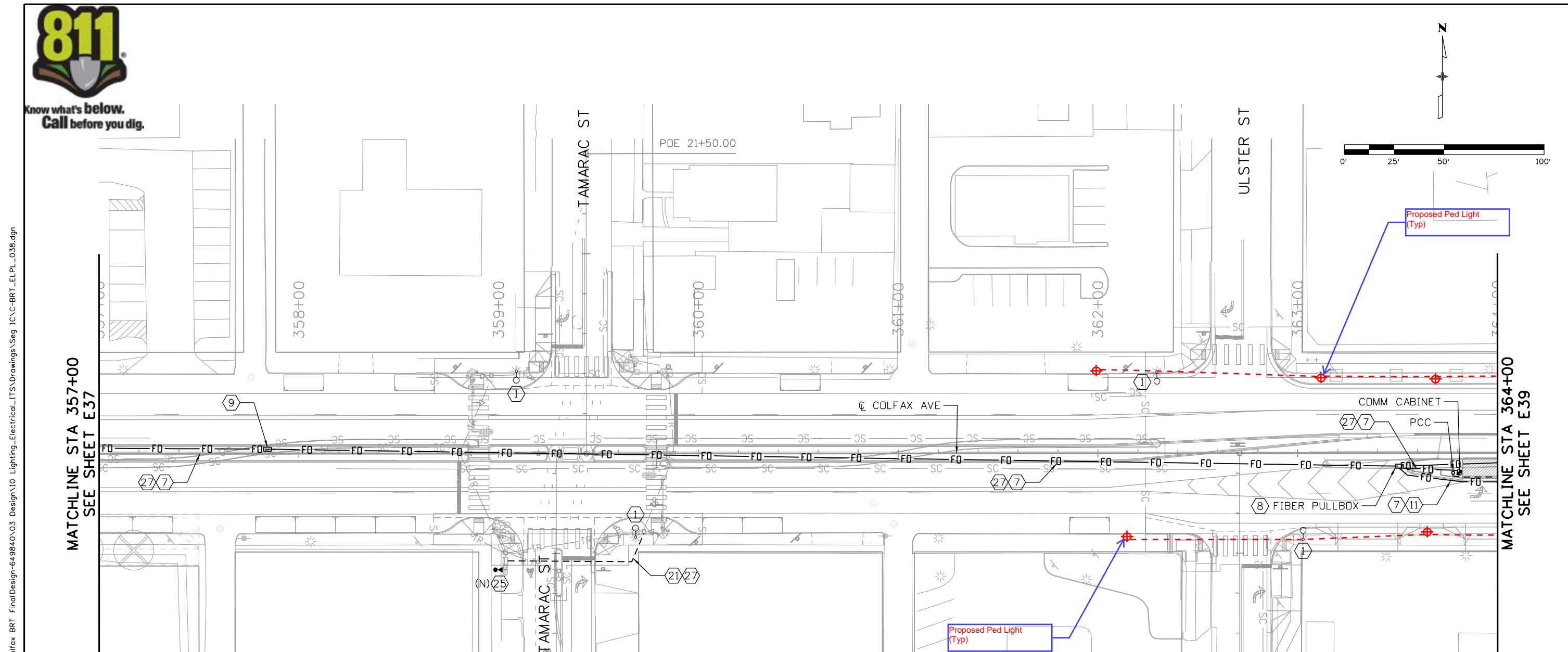
### Authorization and Acceptance

(Acknowledgment of Concurrence with the foregoing)

Alan Wiskus  
Principal

James Moore, PE  
Principal Project Engineer

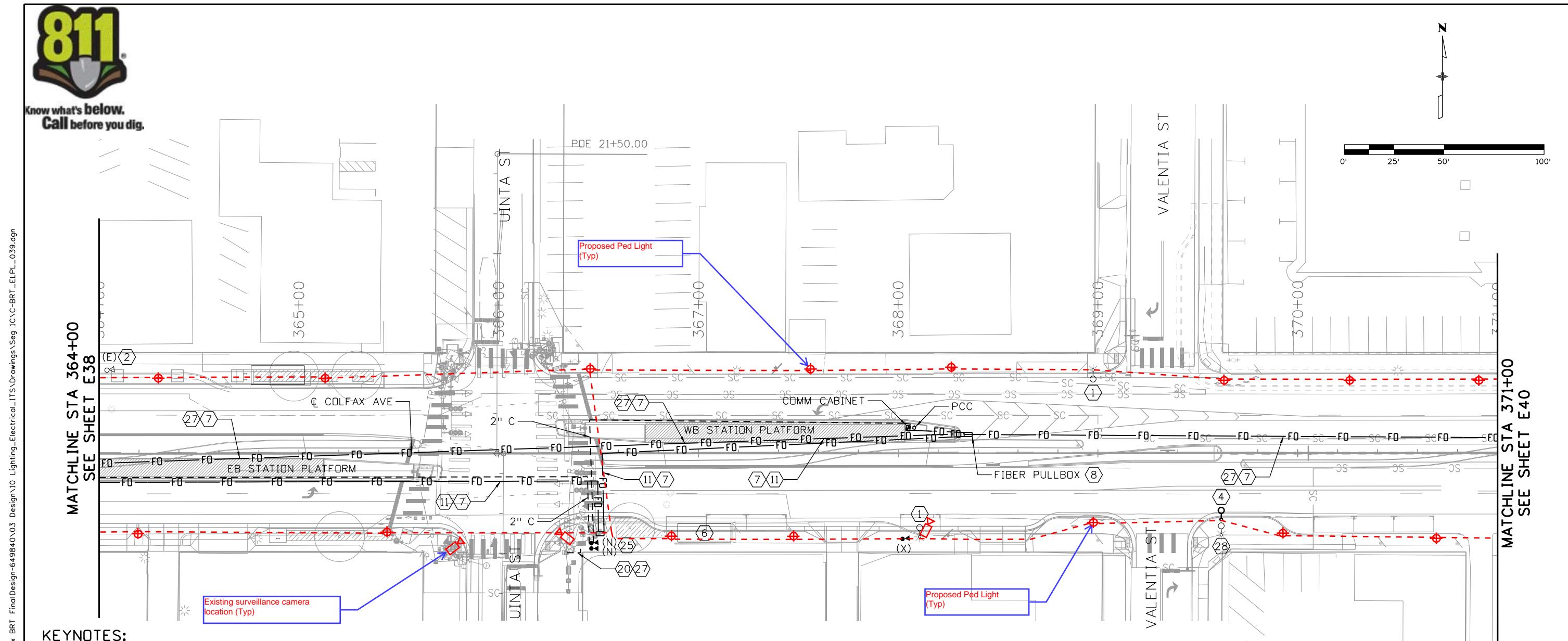
Date

**KEYNOTES:**

- ① EXISTING LIGHT TO BE RESET IN SAME LOCATION. DISCONNECT THE POWER TO EXISTING LIGHT POLE, PROTECT EXISTING FOUNDATION, REMOVE LIGHT, AND PROTECT LIGHT AND CIRCUIT DURING CONSTRUCTION. REINSTALL IN SAME LOCATION ONCE CONSTRUCTION OF INTERSECTION IS COMPLETE.
- ⑦ PROVIDE (2) 2" CONDUIT. (1) SPARE WITH PULL STRING AND (1) WITH PULL STRING, TRACER WIRE AND (3) CHANNEL FABRIC FIBER OPTIC INNERDUCT FOR SINGLE MODE OSP FIBER. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- ⑧ PROVIDE NEW 24" X 36" X 24" TRAFFIC RATED IN-GROUND FIBER PULL BOX WITH FIBER STORAGE RINGS. 24-STRAND SINGLE MODE OSP FIBER LATERAL FROM EXISTING CCD FIBER PULLBOX TO BE COILED UP IN 20' SERVICE LOOP AND STORED IN THIS BOX.
- ⑨ PROVIDE NEW 24" X 36" X 24" IN-GROUND FIBER PULL BOX FOR RTD FIBER. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- ⑪ PROVIDE 24-STRAND SINGLE MODE OSP FIBER LATERAL FROM NEW FIBER PULLBOX TO EXISTING CCD FIBER PULL BOX. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ⑯ CONTRACTOR TO PROVIDE (2) 2" CONDUIT. (1) SPARE WITH PULL STRING AND (1) WITH PULL STRING, TRACER WIRE AND (3) CHANNEL FABRIC FIBER OPTIC INNERDUCT. CONTRACTOR TO ROUTE CONDUIT FROM NEW SIGNAL PEDESTAL LOCATION TO EXISTING CCD COMM. PULLBOX FOR ACCESSIBILITY TO CCD FIBER BACKBONE.
- ⑯ CONTRACTOR TO PROVIDE NEW POWER PEDESTAL. SEE E46 - E48 FOR ADDITIONAL INFORMATION.
- ⑯ CONTRACTOR TO PROVIDE 96-STRAND SINGLE MODE OSP FIBER. FIBER CABLE TO BE ROUTED THROUGH (1) CHANNEL OF FIBER OPTIC INNERDUCT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

Sheet Revisions		
Date:	Comments	Init.

As Constructed	EAST COLFAX AVE BRT ELECTRICAL/FIBER PLAN STA 357+00 TO 364+00		Project No./Code
No Revisions:			DOTI-202055954-00
Revised:	Designer:	RP	Structure
	Detailer:	HS	Numbers
Void:	Sheet Subset:	ELEC	Subset Sheets: E38 of 50
			Sheet Number 1249

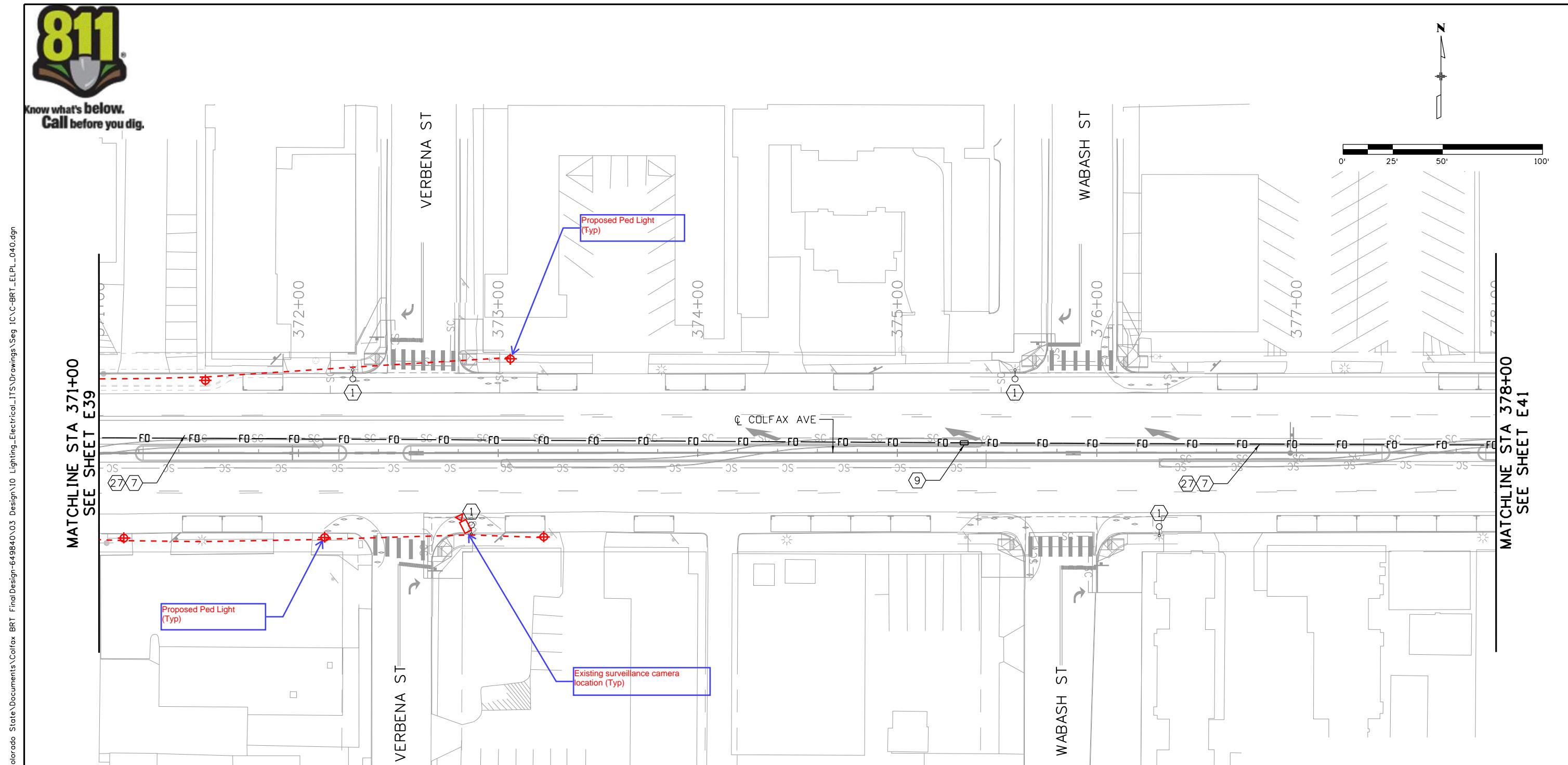


Print Date: 1/8/2024	
File Name: C-BRT_ELPL_039.dgn	
Horiz. Scale: 1:50	Vert. Scale: N/A
PK Electrical, Inc. Engineering · Design · Consulting	4601 DTC Boulevard, Suite 740 Denver, CO 80237 (720) 481-3290

Sheet Revisions		
Date:	Comments	Init.



As Constructed	EAST COLFAX AVE BRT ELECTRICAL/FIBER PLAN STA 364+00 TO 371+00		Project No./Code
No Revisions:			DOTI-202055954-00
Revised:	Designer: RP	Structure	
	Detailer: HS	Numbers	CDOT SA: 25456
Void:	Sheet Subset: ELEC	Subset Sheets: E39 of 50	Sheet Number 1250



## St Paul to Jackson Trunk Line Replacement

Task	Designer Time (hrs)		
	Brent	Katie/Alfy	Tyler
Iterate design in SWMM & ORD Utilities coordination, finalize SD size & inv.'s, IN/MH/lateral size & layout	20	80	20
Update drainage profiles	8	8	8
Update output tables & results figures	8	8	-
Update profile HGL's	-	-	8
Update Drainage Report	8	-	-
QC	20	40	10
Assemble Drainage Report	4	-	-
<b>Total Hours</b>	<b>68</b>	<b>136</b>	<b>46</b>
Average Billing Rate	\$ 200	\$ 150	\$ 150
Total Change Request	\$ 13,600	\$ 20,400	\$ 6,900
			<b>\$ 40,900</b>

# PARSONS COMMUNITY TRANSPORTATION NETWORK

Ogden St Design

PARSONS COST ESTIMATE						
Task #	Project Role	Project Manager	Transportation Planner	Traffic	Project Accountant	Costs
	Task Description	\$ 172.00	\$ 140.00	\$ 102.00	\$ 93.00	
<b>1</b>	<b>PROJECT MANAGEMENT</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>\$ 746.00</b>
	Progress Reports & Invoicing	0	4	0	2	\$ 746.00
<b>2</b>	<b>DESIGN</b>	<b>0</b>	<b>66</b>	<b>138</b>	<b>0</b>	<b>\$ 23,316.00</b>
	Field Verification	0	8	8	0	\$ 1,936.00
	60% Set (10 Sheets)	0	24	60	0	\$ 9,480.00
	100% Set (10 Sheets)	0	16	40	0	\$ 6,320.00
	Post 100% Set (10 Sheets)	0	12	20	0	\$ 3,720.00
	Cost Estimate	0	6	10	0	\$ 1,860.00
<b>3</b>	<b>DESIGN SERVICES DURING CONSTRUCTION</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>\$ 1,400.00</b>
	Field Verification	0	10	0	0	\$ 1,400.00
	<b>TOTAL TASK ORDER ESTIMATE</b>	<b>\$ -</b>	<b>\$ 11,200.00</b>	<b>\$ 14,076.00</b>	<b>\$ 186.00</b>	<b>\$ 25,462.00</b>

## Green Infrastructure Design Fee

Firm	Scope	Fee	Notes
MIG	Green infrastructure design	\$43,500	See MIG scope of work
Parsons	Civil design and oversight	\$5,000	
<b>TOTAL Design Fee</b>		<b>\$48,500</b>	

# Colfax BRT – Green Infrastructure Implementation

## Scope of Work

The following scope of work describes the tasks required to complete green infrastructure design for the Colfax BRT Project. As outlined in the reference documents below, the project will convert identified planting areas into LOG 2-5 green infrastructure facilities. Specifically this task will include:

1. Prepare new LOG planter details, including railing design that comply with DOTI and GI guidelines.
2. Prepare new typical planting plan LOG planters.
3. Prepare new soil specification for LOG planters
4. Compile porous paver products for review and approval of DOTI and GI staff.
5. Prepare paver layout plan, including paver and joint sizing (to reduce material waste and labor cutting pavers) for three typical paver area widths.
6. Create new porous paver detail at soil cell areas
7. Prepare new porous paver specification, including paver product, joint material and setting bed.
8. Revise Layout and Materials plans to identify new LOG planter areas, and porous paver areas.
9. Revise standard planter detail to remove raised curb, per OCF and DOTI direction.
10. Revise layout and planting plans to limit all at-grade planters to 40-feet in length, based on DOTI direction provided after final PS&E submittal.
11. Revise irrigation plans as required.
12. Revise tabulations based on new materials.

### Reference Documents

1. *08\_CCD\_100Pct\_Design\_Plans\_Landscape\_Irrigation\_GreenInfrastructure\_20240604*
2. *CCD-BluebirdBID\_OperationsandMaintenance\_ExhibitA*
3. *CCD-ColfaxAve\_BID\_OperationsandMaintenance\_ExhibitA*
4. *CCD-ColfaxMayfairBID\_OperationsandMaintenance\_IGA\_ExhibitA*
5. *Colfax BRT\_Green Infrastructure Matrix*

## Task 1: Project Coordination

MIG will work with the City and County of Denver and the project staff to coordinate the green infrastructure implementation for the Colfax BRT. MIG will attend up to up to 6 project coordination meetings. MIG will provide the necessary exhibits and project updates as required to support the facilitation of these meetings.

## Task 2: Change Order 1 PS&E Documents

MIG will complete the design documents for green infrastructure implementation and design modifications at the direction of the Client as summarized in the Scope of Work section above. Where appropriate, we will coordinate with City and County of Denver and Green Infrastructure staff regarding standards for hardscape and landscape materials and products and the City Forester regarding street tree selections.

The following will be prepared/delivered:

- Change Order 1 Plans
  - Revised Layout and Materials Plans
  - Revised Planting Plans
  - Revised Irrigation Plans
- Revised & new Construction Details and enlargements as needed to communicate design intent.
- Revised and new Specifications
- Revised tabulations

## Task 3: Quality Control

MIG assumes the Change Order submittal will require one (1) full QA/QC review, consistent with the requirements of the Final PS&E documentation process. MIG will attend in up to one (1) comment review meeting with City staff and provide one (1) comment resolution before final submittal.

## Project Assumptions & Exclusions:

### Assumptions:

- Project schedule is assumed to be 8 weeks, and will commence once team has received a NTP.
- All green infrastructure improvements are identified on the reference documents provided by the City, listed above.

### Exclusions

- Civil engineering and site grading including stormwater mitigation design and calculations
- Tree inventory and arborist report
- Soil testing (structural and agronomic)
- Documentation of ADA path of travel and preparation of ADA access diagrams; ADA audit
- Structural engineering (including that needed for site walls, stairs, pavement, structures, site amenities)
- Signage design
- Lighting design / photometrics
- Electrical engineering for irrigation

- Site survey
- Site inventory

## Fees

The scope of work described above will be billed on an hourly basis, based on existing MIG hourly rates

<b>Task</b>	<b>Fee</b>
Task 1: Project Coordination	\$3,500
Task 2: Change Order 1 documents	\$28,500
Task 3: Quality Control	\$11,500
<b>Total</b>	<b>\$43,500</b>

## Full Signal Replacement Design Fee

Firm	Scope	Fee	Notes
Stolfus	Green infrastructure design	\$60,200	See Stolfus scope of work
Parsons	Civil design and oversight	\$7,000	
<b>TOTAL Design Fee</b>		<b>\$67,200</b>	



5690 DTC Boulevard, Suite 330W  
Greenwood Village, CO 80111  
phone: 303-221-2330 • fax: 303-221-2331  
[www.stolfusandassociates.com](http://www.stolfusandassociates.com)

August 16, 2024

Ms. Jennifer Wood, PE  
Project Manager  
Parsons  
[Jennifer.Wood@parsons.com](mailto:Jennifer.Wood@parsons.com)

Dear Jen,

Stolfus is pleased to provide this proposal for additional traffic signal design services related to the East Colfax BRT Final Design project for Denver locations. This additional scope of services specifically includes re-design of eight traffic signals requested by DOTI after the 100% document submittals.

Our proposed scope of additional services includes the same technical elements included in our original scope of services for permanent traffic signal designs at the following eight locations:

- Sherman St
- Washington Ave
- Franklin St / Park Ave
- High St
- Pennsylvania St
- Clarkson St
- Williams St
- Race St

These updates will be submitted as a Notice of Design Change (NDC). Two NDC reviews are included in the scope of services.

**Schedule and Additional Fee:**

Stolfus will proceed with the additional services in alignment with the master project schedule with your approval of these services and associated fees. We will require additional fees, not-to-exceed \$60,200.00, per our Contract Rate schedule. This contract amendment is described in more detail in below:

**Contract Summary**

Original Scope of Work	2,371 hours	\$405,835.00
Amendment #1	488 hours	\$88,850.00
<b>Amendment #2</b>	<b>398 hours</b>	<b>\$60,200.00</b>
Total Scope of Work	3,257 hours	\$554,885.00

On behalf of Stolfus & Associates, Inc. thank you for the opportunity to submit this proposal. We look forward to completing this contract amendment and continuing the work.

Sincerely,

**STOLFUS & ASSOCIATES, INC.**

A handwritten signature in blue ink that reads "Matthew J. Brown".

Matthew J. Brown, PE, PTOE  
Traffic Safety, Systems & Operations Director



**PK Electrical, Inc.**

ENGINEERING | DESIGN | CONSULTING

681 Sierra Rose Drive, Suite B | Reno, NV 89511 | p. 775.826.9010 ext. 8816  
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | p. 720.481.3290  
pkelectrical.com

# Contract Proposal

## CP24387R1

### Proposal For

James Moore, PE  
Parsons Transportation Group  
1776 Lincoln Street, Suite 600  
Denver, CO 80203  
james.moore@parsons.com

### From

**Alan Wiskus**  
Principal

**Sep 10, 2024**

### Project

City of Denver East Colfax BRT #684205

### Project Description

Additional Requested Services During Design.

### Scope of Services

- BID ADDED SCOPE: New pedestrian lighting, receptacle power, meter pedestal design, conduit design, VD calcs, etc. in the Mayfair BID from Elm St to Monaco.
- BID ADDED SCOPE: Meter pedestal and circuit design for irrigation controllers along corridor
- SCOPE INTERPRETATION: DOTI traffic controller Fiber splicing diagrams. From SOW = "Further coordination and interconnectivity with traffic signals will also be considered." Interconnectivity was interpreted as connections to RTD fiber for signal priority and camera tie ins. We were asked to splice DOTI fiber to the signals, not to the RTD cabinets, which is how the SOW is written above.

### Fee and Structure

		<b>Amount</b>
BID Ped Lighting	Time & Expense	24,000.00
BID Meter Pedestal	Time & Expense	8,000.00
Traffic Controller Fiber	Time & Expense	12,000.00
<b>Total Amount</b>		<b>\$44,000.00</b>

### Terms and Conditions

Per Original Terms & Conditions

### Authorization and Acceptance

(Acknowledgment of Concurrence with the foregoing)

**Alan Wiskus**  
Principal

**James Moore, PE**  
Principal Project Engineer

Date

## ON-CALL PROFESSIONAL SERVICES TASK ORDER FEE PROPOSAL

Project Name City of Denver East Colfax BRT #684205 Date

**Firm Name** PK Electrical, Inc. **Task Order #** \_\_\_\_\_

**Master On-Call Contract #** \_\_\_\_\_ **% Complete Invoicing Approved?** \_\_\_\_\_

## City Project Manager

*\*Hourly rate & Personnel Classification must exactly match master on-call agreement rates*

M/WBE*	Firm Name	Name of Employee	Personnel Classification	Hourly Rate*	Hours	Total (\$)
						\$0.00
						\$0.00
						\$0.00
						\$0.00
						\$0.00

## BID Ped Lighting

Y	PK Electrical, Inc.		Principal	\$235.00	8	\$1,880.00
Y	PK Electrical, Inc.		Senior Project Engineer	\$195.00	20	\$3,900.00
Y	PK Electrical, Inc.		Electrical Designer	\$150.00	80	\$12,000.00
Y	PK Electrical, Inc.		TeleComm Manager	\$190.00		\$0.00
Y	PK Electrical, Inc.		Drafter	\$100.00	52	\$5,200.00
Y	PK Electrical, Inc.		Bookkeeper / Accounting	\$105.00	2	\$210.00
Y	PK Electrical, Inc.		Admin	\$90.00	9	\$810.00

## BID Meter Pedestal

Y	PK Electrical, Inc.		Principal	\$235.00	2	\$470.00
Y	PK Electrical, Inc.		Senior Project Engineer	\$195.00	7	\$1,365.00
Y	PK Electrical, Inc.		Electrical Designer	\$150.00	25	\$3,750.00
Y	PK Electrical, Inc.		TeleComm Manager	\$190.00		\$0.00
Y	PK Electrical, Inc.		Drafter	\$100.00	19.5	\$1,950.00
Y	PK Electrical, Inc.		Bookkeeper / Accounting	\$105.00	1	\$105.00
Y	PK Electrical, Inc.		Admin	\$90.00	4	\$360.00

## Traffic Controller Fiber

Firm Controller Filter						
Y	PK Electrical, Inc.		Principal	\$235.00	4	\$940.00
Y	PK Electrical, Inc.		Senior Project Engineer	\$195.00	9	\$1,755.00
Y	PK Electrical, Inc.		Electrical Designer	\$150.00		\$0.00
Y	PK Electrical, Inc.		TeleComm Manager	\$190.00	40	\$7,600.00
Y	PK Electrical, Inc.		Drafter	\$100.00	11.5	\$1,150.00
Y	PK Electrical, Inc.		Bookkeeper / Accounting	\$105.00	1	\$105.00
Y	PK Electrical, Inc.		Admin	\$90.00	5	\$450.00
					<b>SUBTOTALS</b>	<b>\$0.00</b>

for this subconsultant in Master Agreement

Complete This Section if % Complete Invoicing is Allowed			
			Total Fee (\$) per Milestone
	BID Ped Lighting		\$24,000.00
	BID Meter Pedestal		\$8,000.00
	Traffic Controller Fiber		\$12,000.00
			\$0.00
			\$0.00
			\$0.00
	<b>Subtotal</b>		<b>\$0.00</b>

\* Only include "Y" if an LOI was provided for this subconsultant in Master Agreement

<b>Anticipated Reimbursables (Receipts are required for invoicing)</b>				
Building Permit Application				
Zoning Permit if necessary				
Delivery services during CA				
<b>For this Task Order:</b>				
M/WBE Total \$	\$44,000.00			
M/WBE Total %	100.00%			
<b>TOTAL FEE THIS TASK ORDER</b>				<b>\$44,000.00</b>

**Completed By**

\_\_\_\_\_  
**(SIGNATURE):**

Rev 03/26/2019

**E. Colfax BRT - Denver - Final Design out of scope**

Scope and Fee Estimate 8/17/2024

Task	Description of Activities /Assumptions	Principal	Project Manager II	Project Manager I	Designer I	SUE Technician III	SUE Technician II	Total Hrs.	Total Cost (2024 Rate Sheet)
		\$185/hr	\$140/hr	\$130/hr	\$100/hr	\$130/hr	\$110/hr		
Final Design - Utilities	Utility Test Holes QLA: 200 test holes (175 assumed unneeded test hole funds (funds transferred back to project Jan 2024 thinking they were not necessary + 25 additional test holes).	20	4	50	100	45	280	499	\$57,410
	Denver Water Coordination for Denver water relocations: data from their construction as-built required a lot of processing/review. Regular Denver Water coordination meetings were not scoped (over 20 meetings to coordinate the new construction)	4		50	16			70	\$8,840
	Xcel - Weekly Xcel meetings were not scoped (20 completed); Work Requests - especially for new power sources and traffic was not in scope; use of Xcel 1% fund /design/work request not assumed	8		30				38	\$5,380
	Lumen - site walks and ongoing meetings (at least 8 over original scope)			12				12	\$1,560
	Intensive interdisciplinary fiber, lighting, electric, and traffic coordination for overall utility collaboration			20				20	\$2,600
	Major drainage and landscape impact changes and very close coordination			20	20			40	\$4,600
<b>SUBTOTAL LABOR</b>		<b>32</b>	<b>4</b>	<b>182</b>	<b>136</b>	<b>45</b>	<b>280</b>	<b>679</b>	<b>\$80,390</b>

**Other Direct Costs (ODC)**

Expense Items	Subtotal
<b>Vendor Items</b>	<b>Subtotal</b>
SUE QLA Vacuum Excavation and Traffic control (Estimated Vendor Charges from Badger)	\$ 18,600
SUE QLA Vacuum Excavation and Traffic control (Estimated Vendor Charges from Tom Richardson)	\$ 115,887
<b>SUBTOTAL ODCs</b>	<b>\$ 134,487</b>

Total Estimate = \$ 214,877

**E. Colfax BRT - Denver - DSDC**

Scope and Fee Estimate 9/20/2024

Task	Description of Activities /Assumptions	Principal	Project Manager I	Designer I	Total Hrs.	Total Cost (2024 Rate Sheet)
		\$185/hr	\$130/hr	\$100/hr		
Project Mgmt.	Progress reports and invoicing. Assume 16 invoices.		16	8	24	\$2,880
	<b>UPR level utility design review</b> - not originally scoped (Xcel and others, specifically on packages 3-4 with later submittal dates); assume review and CAD incorporation of up to four submittals.		20	32	52	\$5,800
	<b>Denver Water Relocation Plans one year prior to construction (segments 3 and 4):</b> Develop Denver Water relocation plans for relocation for segments 3 and 4.	8	20	80	108	\$12,080
Post-Design Services	<b>Utilities Post Design Support:</b> Includes meet on site at the request of DOTI to provide assistance during utility construction up to 4 field meetings, answering up to 10 RFIs, and reviewing up to 10 design change notices (DCNs).		58		58	\$7,540
	<b>Utility Owner As Construction Relocation Plans:</b> Incorporate utility owner relocation from CMGC survey data into proposed design files to assure compatibility with project elements		20	280	300	\$30,600
	Denver Water and DOTI Wastewater As Constructed - excluded					
<b>SUBTOTAL LABOR</b>		<b>8</b>	<b>134</b>	<b>400</b>	<b>542</b>	<b>\$58,900</b>

**Total Estimate** = **\$ 58,900**



September 10<sup>th</sup>, 2024

518 17<sup>th</sup> Street, Suite 630  
Denver, CO 80202  
P (303) 440-9200  
www.migcom.com

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NORTH CAROLINA  
RALEIGH

OREGON  
EUGENE AND PORTLAND

TEXAS  
SAN ANTONIO

WASHINGTON  
SEATTLE

**Parsons**  
Attn:  
James Moore, PE  
Senior Engineering Manager  
999 18th Street Suite 1555N, Denver, CO 8020

**Re: Add Service 7.5 for East Colfax Bus Rapid Transit (BRT) Final Design – Construction Administration and Construction Observation**

Dear James,

This letter will serve an Add Service to MIG Inc.'s Services Agreement for East Colfax Bus Rapid Transit (BRT) Final Design. This Add Service will cover Construction Administration and Construction Observation.

MIG Inc. (MIG) will complete our scope of work for Add Service 7.5, under the Previous Agreed Supplemental Agreement 2. If this contract is acceptable to Parsons, please sign this letter and return a PDF copy to MIG.

MIG's detailed scope of work and fee for Add Service 7.5, are summarized in **Exhibit A – Construction Administration and Construction Observation Estimated Project Cost**.

**Scope**

The following describes new services outside of the original scope:

**Task 7.5.1 Pre-Construction/ Contractor Meetings – Fee \$2,160**

MIG will attend and participate in two (2) preconstruction meetings at the initiation of the construction phase. All required subconsultants will be involved as directed by the City or Parsons, including Hydrosystems Irrigation\*KDI.

**Task 7.5.2 RFI/ Change Order Review and Responses – Fee \$13,300**

MIG will review and responded to required RFI and Change Order request submitted to MIG by the City of Parsons during the construction phase of the project. We assume no more than 15 total change orders or RFIs will be reviewed. All work beyond this assumed amount will require additional services.

**Task 7.5.3 Submittals and Shop Drawings – Fee \$2,445**

MIG will review and comment on all submittals and shop drawings sent to us by the Contractor or Subcontractor. It is assumed that all submittals reviewed during the first phase of the project will suffice for future construction phases. Submittals and shop drawings will include, but not limited to, landscape materials (mulch, soil sample, tree guying materials, fencing, tree guards, paver grate) and site furniture. We assume no more than 6 total shop drawings or submittals will be reviewed. All work beyond this assumed amount will require additional services.

**Fee**

**Task 7.5.4 Construction Observation – Fee \$20,530**

Over the course of the construction process, MIG will participate in construction observation visits as requested by the Contractor, City or Parsons. MIG will provide a written summary after each visit for record and distributed to appropriate parties. It is assumed that MIG will participate in three (3) nursery visits (one (1) per each planting phase), to one (1) designated nursery as directed by the Landscape contractor for the selection of trees. At the completion of each phase of construction, MIG will complete a substantial completion inspection and punch list memo, assume 3 total.

**Task 7.5.5 Project Management CA/CO – Fee 11,190**

MIG will participate in regularly scheduled and as needed meetings with City Staff, Project Team, Contractor or BID representatives during the course of the construction phase. Project visuals, graphic collateral or memos will be developed on an as needed basis. Internal project management, financing and invoicing will be incorporated into the project execution.

**Fee**

The fees for the scope of work described above will be billed on an hourly basis. MIG will not begin work on any task without written direction from the Client.

<b>Approved Tasks (Supplemental Agreement 2)</b>	<b>Fee</b>
3.2 Streetscape	\$15,000
7.1 Collaboration with CMGC	\$15,040
7.2.8 Station Layout Architecture/Landscape Arch.	\$5,000
7.3 60%/90%/Final PS&E Docs	\$128,858
7.4.1 Existing Conditions & BID Coordination	\$7,000
7.4.2 Add Alternative#1: 60% Design	\$38,000
7.4.4 Add Services #2	\$80,000
<b>Subtotal</b>	<b>\$288,898</b>
<b>Additional Services</b>	
7.5 Construction Observation & Construction Administration	\$49,625
<b>Subtotal</b>	<b>\$49,625</b>
<b>Revised Contract Total</b>	<b>\$345,573</b>

We very much appreciate the opportunity to continue working with Parsons. Please feel free to contact me or Matt Shawaker at 303-440-9200 for any questions or additional information needed.

Sincerely,



Mark De La Torre  
Director of Denver Area Operations

Please sign below to indicate your agreement to the terms outlined in this letter as a revision to the original contract and budget.

---

James Moore, PE.

Date

*Senior Engineering Manager*

**Parsons | East Colfax Bus Rapid Transit (BRT) Final Design**  
**Construction Administration and Construction Observation Estimated Project Cost**

		MIG, Inc.							Subconsultants (include direct costs)		MIG Direct Costs	Professional Fees Totals
		Matt Shawaker	Daniel Navarro-Gomez	Evan Rochelle	Amanda Dorsey	MIG Totals	Hydroystems	Sub Totals				
		Director of Urban Design	Project Manager	Project Associate	Project Administrator							
		Hrs@	\$205	Hrs@	\$150	Hrs@	\$90	Hrs@	\$105			
<b>Task 1:</b> Pre-Construction/ Contractor Meetings												
1.1	Contractor and Consultant Team Kick Off	2	\$410	2	\$300		\$0	4	\$710		\$0	\$710
1.2	Landscape and Irrigation Pre-Construction Meeting		\$0	2	\$300	2	\$180	4	\$480	\$350	\$350	\$830
1.3	Project Setup and Agreements	2	\$410		\$0		\$0	2	\$210	4	\$620	
	Subtotal	4	\$820	4	\$600	2	\$180	2	\$210	12	\$1,810	\$350
<b>Task 2:</b> RFI/ Change Order Review and Responses												
2.1	Review and Response to Contractor Questions	4	\$820	12	\$1,800	24	\$2,160		\$0	40	\$4,780	
2.2	Review and Respond to RFI or Change Orders (Assume 15)		\$0	12	\$1,800	48	\$4,320		\$0	60	\$6,120	
2.3			\$0		\$0		\$0	0		\$0	\$0	\$0
	Subtotal	4	\$820	24	\$3,600	72	\$6,480	0	\$0	100	\$10,900	\$2,400
<b>Task 3:</b> Submittals and Shop Drawings												
3.1	Submittal and Shop Drawing Reviews (Resubmittal Review Allowance 6 Total)	1	\$205	4	\$600	16	\$1,440		\$0	21	\$2,245	
3.2			\$0		\$0		\$0	0		\$0	\$200	\$200
	Subtotal	1	\$205	4	\$600	16	\$1,440	0	\$0	21	\$2,245	\$200
<b>Task 4:</b> Construction Observation												
4.1	Construction Observation Visits at City/ Contractor Request. (Assume 12,1 Hour Meeting)	6	\$1,230	12	\$1,800		\$0		\$0	18	\$3,030	\$500
4.2	Nursery Visit (Assume MIG will visit one (1) Nursery, 3x, within Denver Metro or Fort Collins)		\$0	24	\$3,600		\$0		\$0	24	\$3,600	
4.3	Substantial Completion Inspection and Punch List Memo (Assume 3)	12	\$2,460	24	\$3,600	6	\$540		\$0	42	\$6,600	
4.4	Substantial Completion Follow-Up Inspection & Punch List Completion Memo (Assume 3)	8	\$1,640	12	\$1,800	6	\$540		\$0	26	\$3,980	\$500
4.5	Construction Observation Site Visit Summaries / Distribute (9 Total)	4	\$820	9	\$1,350		\$0		\$0	13	\$2,170	
4.6			\$0		\$0		\$0	0		\$0		\$0
	Subtotal	30	\$6,150	81	\$12,150	12	\$1,080	0	\$0	123	\$19,380	\$1,000
<b>Task 5:</b> Project Management for CA/ CO												
5.1	City Staff, Construction Team Coordination Meetings	8	\$1,640	12	\$1,800	16	\$1,440		\$0	36	\$4,880	\$2,400
5.2	Internal MIG/ Project Management	4	\$820	8	\$1,200		\$0	18	\$1,890	30	\$3,910	
	Subtotal	0	\$0	0	\$0	0	\$0	0		0	\$8,790	\$2,400
<b>SUBTOTAL</b>		<b>51</b>	<b>\$10,455</b>	<b>133</b>	<b>\$19,950</b>	<b>118</b>	<b>\$10,620</b>	<b>20</b>	<b>\$2,100</b>	<b>322</b>	<b>\$43,125</b>	<b>\$6,350</b>
<b>TOTAL PROJECT COSTS</b>												<b>\$49,625</b>