COMMERCE CITY

SUPPLEMENTAL PROPOSAL
PRELIMINARY AND FINAL DESIGN
OF BRIGHTON ROAD FROM E. 104TH
AVENUE TO F. 112TH AVENUE

2019-05-PW

MARCH 4, 2020

HUITT-ZOLLARS

www.huitt-zollars.com

HUITT-ZOLLARS

CORE VALUES

- To achieve the highest level of quality in everything we do.
- To always conduct ourselves with consummate integrity.
- To achieve client satisfaction through uncompromised personal service.
- To provide the appropriate environment for people to work, grow, and prosper.
- To maintain consistent growth and a reasonable profit in order to perpetuate a healthy company.
- To always strive to advance our services to new horizons.

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HUITT-ZOLIARS

HUITT-ZOLLARS, INC. 1 4582 South Ulster St. 1 Suite 240 1 Denver, CO 80237-2639 1 303.740.7325 phone 1 303.224.9997 fax 1 huitt-zollars.com

March 4, 2020

Mr. Mark Winnen, Project Manager City of Commerce City 8602 Rosemary Street Commerce City, CO 80022

RE: Request for Supplemental Proposal

Preliminary and Final Design of Brighton Road from E. 104th Ave. to E. 112th Ave.

2019-05-PW

Dear Mark,

Thank you for the opportunity to present additional information augmenting our qualifications for Prime Consultant for the preliminary and final design for the reconstruction of Brighton Road from E. 104th Avenue to E. 112th Avenue. Our supplemental proposal requested by Addendum No. 2 (dated Fabruary 27, 2020) is enclosed on the following pages. This submittal is limited to only those items requested for this Supplemental Proposal, including:

- Detailed Design Schedules for Phase I and Phase II
- Phased Project Design Approach
- Proposed Exclusions
- Additional Information
- Modified Fee Proposal

All the information presented in our Original Proposal remains unchanged; Design Team, Management Approach, etc.

We have kept this submittal brief, while providing all requested supplemental data. We understand the urgency, and time constraints that you now face in order to issue the project Notice-to-Proceed on March 17th, as intended. Further, we acknowledge the need to issue Phase I for construction as early as this summer, as feasible. With that in mind, we have every intention of working closely with you to be sure that we meet that commitment. I have successfully completed several similar, time constrained projects and am confident that I can do so again on this project. As the HZ Project Manager, I can and will lead this design team, and the City, to a bid ready set of construction documents for the Brighton Road reconstruction within 120 calendar days of the project NTP.

We look forward to your favorable response; enabling us to move this project forward in a timely fashion. Please feel free to call if you have any questions or need further information.

Sincerely,

Huitt-Zollars, Inc.

Gerald Prusik, PE

Vice President / Project Manager

Wendy L. Amann, PE

Vice President / Denver Managing Principal

DETAILED DESIGN SCHEDULES

Our detailed Design Schedules for both Brighton Road Phase I and Phase II are enclosed on the two following pages. As requested with Addendum No. 2 (dated February 27, 2020), we have split the work into two phases, as follows:

- Phase I
 - Design for reconstruction of Brighton Road from 104th Avenue to 112th Avenue for reconstruction of the existing 2-lane road with 5-foot shoulders on both the east and west sides, right turn lanes at E. 104th Avenue and E. 112th Avenue, street lights and other appropriate safety improvements
- Phase II
 - Design for a detached multi-use trail, drainage improvements and Fulton Ditch bridge replacement

We have developed the Phase I schedule based on a Notice to Proceed (NTP) of March 17, 2020, and we show Phase I completed within the 120 days, as requested. Note that this schedule employs a single plan review at a 90% completion level. This design approach has been utilized throughout time, as a means of expediting a project to construction. CDOT has historically referred to this design approach as a combined FIR/FOR. This approach relies on "over-the-shoulder" reviews and close coordination with the City throughout design development, with a single formal review prior to preparation of final bid documents for advertisement for construction.

Our Phase II Design Schedule employs a traditional 2-phase design approach with independent preliminary and final design review activities. Note that we show an 8-month timeframe to complete the Phase II construction documents. This will allow C3 to advertise Phase II for construction in the Spring of 2021.

Also, note that our field efforts (survey, geotechnical engineering and environmental studies/clearance letter) all remain a part of Phase I. We see no need to replicate those field efforts individually as a part of each phase of the project. We also offer this approach as a cost savings means of conducting our up-front field activities, all at once.

Due to the compressed Phase I timeline, our survey field data will be developed with a focus of putting the base field topographic survey data in the hands of our design team as quickly as possible in order to timely develop our centerline geometric alignment. We may even start the development of our alignment ahead of receipt of our survey data, using publicly available mapping data.

We are confident that we can meet this aggressive Phase I schedule!



Commerce City

Huitt-Zollars, Inc Design Schedule

Preliminary and Final Design of Brighton Road - Phase I from E. 104th Ave to E. 112th Avenue

Notice to Proceed

Project Management, Design and Stakeholder Coordination Meetings

Data Collection, Field Studies and Analysis

Task Name

Mar '20

Apr '20

May '20

Duration

1 day

86 days

21 days

Tue 3/17/20

Wed 3/18/20

Wed 3/18/20

Tue 3/17/20

Wed 7/15/20

Wed 4/15/20

Jun '20 6/14

Jul *20 7/12 Commerce City

) _	Task		Task Name	Duration	Start	Finish	Jul '20	l Au	g '20 8/2	Sep '20 3 9/6 9/20	Oct '20	Nov 1	20	Dec '20 11/29 12/13 1	Jan '21 2/27 1/10 1/	Feb '21	Mar '21 21 3/7 3/21	I, A
1	Mode	e	Initiate Project	1 day	Mon 7/20/20	Mon 7/20/20	7/12	7/26 8 7/20	/9 8/2	3 9/6 9/20	10/4 10/18	11/1	11/15	11/29 12/13 1	2/27 1/10 1/	24 2/7 2/	21 3/7 3/21	4/4
2	-3	-	Project Management, Design and Stakeholder Coordination Meetings	186 days	Tue 7/21/20	Tue 4/6/21							11111					<u>_</u>
3	=		Kick-Off Meeting	1 day	Tue 7/21/20	Tue 7/21/20		7/21										+
4	-3	-	Preliminary Design	85 days	Wed 7/22/20	Tue 11/17/20						-	1					-
5	-3		SUE Investigation, Coordination and Documentation/Identify Conflicts	85 days	Wed 7/22/20	Tue 11/17/20							h					\vdash
6	-3		Plan Production (Title Sheet, General Notes, Typical Sections, etc)	60 days	Wed 7/22/20	Tue 10/13/20												+
7	-3	\dashv	Roadway and Trail Design	15 days	Wed 7/22/20	Tue 8/11/20												\vdash
8	=3	-	Drainage Design	30 days	Wed 8/12/20	Tue 9/22/20												+
9	-3		Fulton Ditch Structure Type Selection and General Layout	30 days	Wed 8/12/20	Tue 9/22/20												+
10	-3		Signing and Striping Plan	30 days	Wed 8/12/20	Tue 9/22/20												+
11	-3		Construction Phasing and Traffic Control Plan	30 days	Wed 8/12/20	Tue 9/22/20												+
12	-3		Storm Water Management Plan	30 days	Wed 8/12/20	Tue 9/22/20												+-
13	-3		Landscape Plan	30 days	Wed 8/12/20	Tue 9/22/20												\vdash
14	-3		Initial ROW Requirements	30 days	Wed 8/12/20	Tue 9/22/20												\vdash
15	-3		Technical Specifications	15 days	Wed 9/23/20	Tue 10/13/20												+-
16	-3		Quantity Determination and Opinion of Construction Costs	15 days	Wed 9/23/20	Tue 10/13/20												+
17	-		Quality Review and Revisions	10 days	Wed 10/14/20	Tue 10/27/20						+						+
18	-3		Public Open House	1 day	Thu 11/12/20	Thu 11/12/20						3 1	1/12					+-
19	-3		Field Inspection Review (FIR)	15 days	Wed 10/28/20	Tue 11/17/20												+
20	-		Final Design	100 days	Wed 11/18/20	Tue 4/6/21												+
21	-3		SUE Coordination/Conflict Resolution and Clearance Letters (Inc'l Fulton Ditch)	40 days	Wed 11/18/20	Tue 1/12/21												╁
22	-3		ROW Acquisition Documents	40 days	Wed 11/18/20	Tue 1/12/21									•			\vdash
23	-5		Plan Production (Title Sheet, General Notes, Typical Sections, etc)	40 days	Wed 11/18/20	Tue 1/12/21												+
24	-3	-	Roadway and Trail Design and Roadside Development	15 days	Wed 11/18/20	Tue 12/8/20								_				+
25	-3		Drainage Design and Details	25 days	Wed 12/9/20	Tue 1/12/21												\vdash
26	-3	\dashv	Fulton Ditch Structure Design and Details	25 days	Wed 12/9/20	Tue 1/12/21												\vdash
27	-3		Signing and Striping Plan	25 days	Wed 12/9/20	Tue 1/12/21												\vdash
28	=3		Construction Phasing and Traffic Control Plan	25 days	Wed 12/9/20	Tue 1/12/21												\vdash
29	-3	\dashv	Storm Water Management Plan	25 days	Wed 12/9/20	Tue 1/12/21												\vdash
30	=3		Landscape and Irrigation Plan and Details	25 days	Wed 12/9/20	Tue 1/12/21												\vdash
31	-3		Technical Specifications	15 days	Wed 1/13/21	Tue 2/2/21										- h		\vdash
32	-3	\dashv	Quantity Determination and Opinion of Construction Costs	15 days	Wed 1/13/21	Tue 2/2/21												\vdash
33	-3	\dashv	Quality Review and Revisions	10 days	Wed 2/3/21	Tue 2/16/21						+						+
34	-3		Final Office Review (FOR)	15 days	Wed 2/17/21	Tue 3/9/21						+						+
35	-3	+	Bid Documents (PS&E)	20 days	Wed 3/10/21	Tue 4/6/21						+						
			Task Summary Inactive M		.	Duration-only			Start-or	lv F		External Mile		*	Manual Progr			Щ

PROJECT APPROACH

As noted in our Design Schedule section (above), routine and continual coordination will be important, particularly throughout the Phase I design activities. We plan to meet weekly throughout this Phase of design, with some meetings at our Denver Tech Center office, so that Mark Winnen can be a part of the design development, as it occurs. We can also offer virtual interactive/live meetings (such as Go-to-Meeting) to share our design process with Mark, as needed to be sure that C3 knows what is coming with the single/final formal plan review.

As demonstrated with the Tables and Graphs included in our original Proposal, we do have the available manpower to meet the schedules of this phased design and construction approach.

The project management approach outlined in our original proposal will remain, especially regarding cost control and quality processes. Although we have created an expedited schedule, we will still maintain the detailed quality control process we do on every set of plans we release.

EXCLUSIONS AND ADDITIONAL SERVICES

As indicated in our original submittal, we have the following comments and proposed changes to the standard terms and conditions within the City of Commerce City's contract.

Article I.E. entitled "Warranties" should be deleted in its entirety and replaced with the "Standard of Care" with the following language following:

E. Standard of Care. In providing services under this Agreement, the Contractor shall perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances at the same time and in the same or similar locality. Upon notice to the Contractor and by mutual agreement between the parties, the Contractor will, without additional compensation, correct those services not meeting such a standard. The Contractor makes no warranty, express or implied, as to its professional services rendered under this Agreement.

Reason for requested change above — Although warranties may be commonplace in a constructor's contract, they have no place in a design consultant's agreement. The problem is that by definition, the word warrant means to assure the total accuracy of something and to certify that "... all work will be free from defects." The requirement for Warranties as noted lies in a construction contract, not a professional services contract. The perfect set of plans has yet to be produced and therefore professional services firms cannot and do not warrant their work. In addition, if we were to warrant something, we would be assuming a level of contractual liability well beyond the standard of care required by law. As a design professional, all we are required to do is conform to the standard of care as practiced by our peers. And that's what our professional liability insurance covers. It is important to remember that our professional liability insurance does not cover breach of contract or breach of warranty, the assumption of someone else's liability, or a promise to perform to a higher standard of care than required by law. Engineers, Architects, Surveyors and other designated professional service firms must perform in accordance with the Standard of Care as defined above. We therefore respectfully request a change in this section language.

Article IX.E. entitled "Time is of the Essence". We request that the following sentence be added at the end of the first sentence:

"Notwithstanding the foregoing, Contractor shall not be responsible for delays or damages or declared to be in default by reason of delays in performance or by reason of strikes, lockouts, accidents, acts of God, and other delays unavoidable or beyond Engineer's reasonable control, delays in approval by governmental agencies, or delays in work of other consultants performing services on behalf of the City.

Reason for requested change above — We agree with the concept of maintaining a strict schedule to the extent possible, but the language in this clause does not account for delays caused by issues beyond our ability to control, including, but not limited to extreme weather events, etc. We therefore respectfully request this change to add these extenuating circumstances to be excused instead of any delay potentially being considered "breach of our agreement" as the current language implies.



ADDITIONAL INFORMATION

In order for Phase I Brighton Road construction to advance to construction this summer, certain things must occur:

- No new ROW, or easements can be required there will not be any time for any ROW acquisition. The auxiliary turn laneage anticipated at E. 104th Avenue and E. 112th Avenue may exceed the existing ROW available. Should this be discovered, we can easily leave some of the intersection work for Phase II, where there will be more time available to address ROW requirements. However, the ROW identification will be done in Phase I, expediting that process in Phase II.
- No significant environmental impacts that would require greater time to mitigate and permit will be addressed in Phase I. If such is discovered, those issues will be addressed in Phase II.

Since there will not be sufficient time for any ROW acquisitions with Phase I, the roadway centerline will be developed to avoid any ROW impacts. This may result in the need for additional ROW, or easements, to accommodate the planned detached multi-use trail, in Phase II.

The existing Brighton Road width at the Fulton Ditch bridge will preclude construction of the full 2-lane roadway with 5-foot shoulders, across the existing bridge. Brighton Road will be milled and overlaid across the existing bridge with an approximate 30-foot total width during Phase I construction. The full 34-foot width, with any required additional bridge rail clearance, will be provided with the Fulton Ditch bridge replacement in Phase II.

Since we have had the opportunity to meet with the South Adams County Water & Sanitation District (SACWSD) with C3, we now understand that the District's future Bell Creek lift station (to be located west of Brighton Road, south of First Creek) and force main (along Brighton Road) remains in the early planning stage. So, exact locations of this planned lift station and force main remain unknown. Design for the Brighton Road improvements will be shared, and coordinated with SACWSD, in an effort to most efficiently accommodate, and not preclude future SACWSD anticipated work, with minimal impact to the reconstructed Brighton Road.

We have very recently met the Fulton Ditch attorney (on another municipal project affecting an irrigation ditch in metro Denver), and have had a very brief/introductory discussion of the pending Brighton Road project and the intent to replace the existing Brighton Road bridge, at the Fulton Ditch. We now know where to begin that Phase II discussion with the ditch company which will certainly facilitate the Phase II design process.



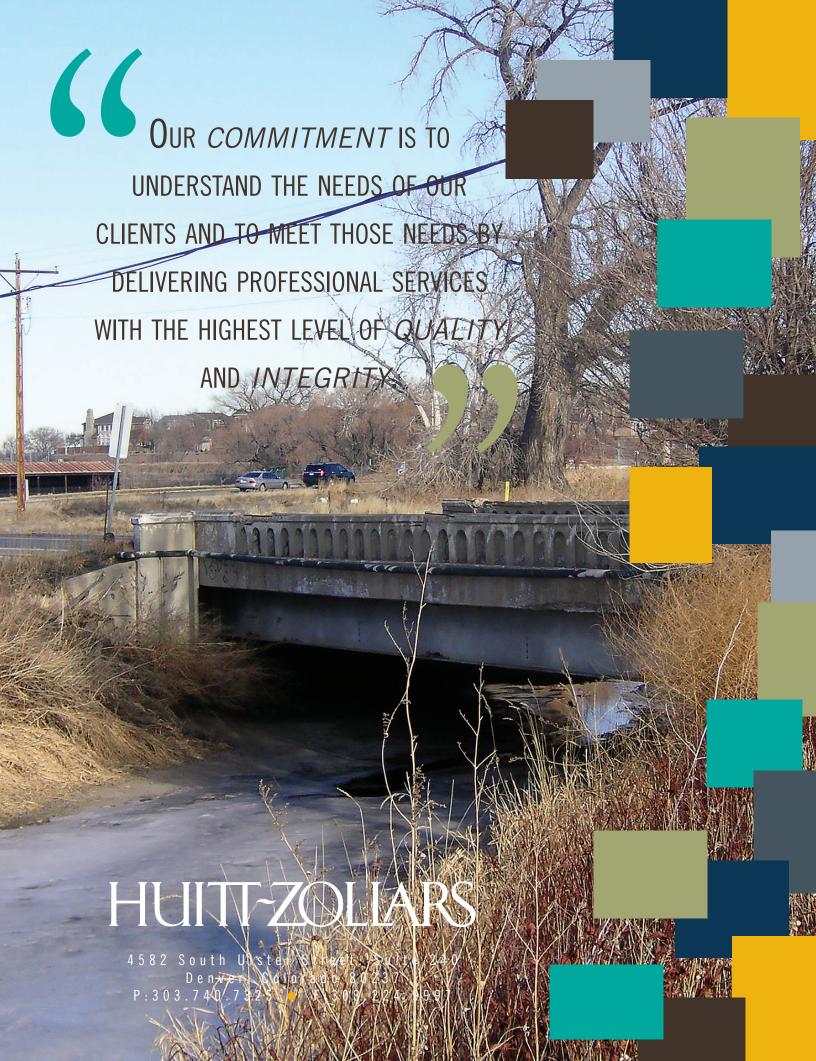
MODIFIED FEE PROPOSAL

Our Modified Fee Proposal for this Brighton Road Phased approach is included in a separate sealed envelope, as requested.



Why Choose HUIT-ZOLLARS?

- ✓ We have been engaged with C3 in the planning of this phased approach.
- ✓ We have worked with C3 previously and understand your requirements.
- ✓ Extensive experience with roadway improvement projects.
- ✓ We are excited and available to get started immediately!





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HUITT-ZOLLARS, INC. 1 4582 South Ulster St. 1 Suite 240 1 Denver, CO 80237-2639 1 303,740,7325 phone 1 303,224,9997 fax 1 huitt-zollars.com

Commerce City
2-Phase Preliminary and Final Design of Brighton Road
From E. 104th Avenue to E. 112th Avenue
Huitt-Zollars, Inc
Supplemental Proposal

March 4, 2020

Modified Fee Proposal

Our Modified Fee Proposal for the 2-Phase Preliminary and Final Design of Brighton Road from E. 104th Avenue to E. 112th Avenue is attached. Our Base and Additional Services fees have been split between Phase I and Phase II.

We have included a summary of manhours and fees, by Phase, by Task, by Base Services, by Additional Services for Huitt-Zollars and each of our subconsultant team members. We have reduced our Additional Service fees related to the South Adams County Water & Sanitation District (SACWSD), now that we have a better understanding of the coordination effort that will be required with the District. We have reduced this effort, although we still have adequate time for close coordination with the District throughout design development, anticipating no direct conflicts with existing SACWSD facilities.

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Huitt-Zollars, Inc 2 Phase Design and Construction Fee Summary

3 · E

			Fee	
Firm	Base	A	dditional	Total
Phase I				
Huitt-Zollars, Inc	\$ 148,565	\$	62,430	\$ 210,995
Foresight West Surveying	\$ 50,820	\$	9,360	\$ 60,180
Kumar and Associates	\$ 17,630	\$	-	\$ 17,630
ACI Consulting Group	\$ 10,980	\$	-	\$ 10,980
DHM Design	\$ 22,870	\$	3,140	\$ 26,010
Universal Field Services	\$ -	\$	_	\$ _
Phase I Total	\$ 250,865	\$	74,930	\$ 325,795
Phase II				 n der seiner der sein seiner Seiner der der der der der der der der der d
Huitt-Zollars, Inc	\$ 176,905	\$	35,900	\$ 212,805
Foresight West Surveying	\$ 31,920	\$	5,340	\$ 37,260
Kumar and Associates	\$ -	\$	4,795	\$ 4,795
ACI Consulting Group	\$	\$		\$ -
DHM Design	\$ -	\$	_	\$ -
Universal Field Services	\$ 525	\$	53,895	\$ 54,420
Phase II Total	\$ 209,350	\$	99,930	\$ 309,280
Total Propject	\$ 460,215	\$	174,860	\$ 635,075

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Huitt-Zollars, Inc

Base Services Manhour and Fee Estimate - Phase I

				Mani	nours						Fee			
Task	PIC	QM	Sr PM	Str Eng	EI	SD	PS		HZ	Direct Expense	C	Sub		Total
	\$235	\$225	\$205	\$145	\$125	\$155	\$65					************		
Project Management, Design and Stakeholder Coordination Meetings	6		48			8		62	\$ 12,490	\$	- \$	1,910	\$	14,400
Data Collection, Field Studies and Analysis									0.00	************				
Kickoff Meeting	2	2	4		2	2	1	13	\$ 2,365	S	- \$	730	\$	3,09
Design Topographic Survey and Mapping	-		4		4			8	\$ 1,320		- \$	36,060		37.38
ROW Research and Ownership Map			4			8		12			- \$	7,200		9,26
Geotechnical Investigation Analyses, Pavement Design and Recommendations	-		4			4		8	\$ 1,440		- \$	19,190		20,63
Initial Utility Locates and SUE Coordination			8		24	24	•	56	\$ 8,360		- \$	10,100	S	8,36
Environmental Field Studies			4		8	4		16			- \$	4,120		6,56
Design														
Environmental Agency Coordination and Clearance Letter			4		4	4		12	\$ 1,940	\$	- \$	4,950	\$	6,89
SUE Investigation/CoordDocumentation/IdentifyConflicts/Resolve Conflicts			8		16	12		36		s	- \$	6,000		11.50
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)			4		64	40		108		S	- \$	0,000	\$	15,02
Roadway Design and Roadside Development			8		16	16		40		S	- \$		\$	6,12
Drainage Design and Details			8		40	16		64	\$ 9,120	S	S		S	9.12
Signing and Striping Plan			4		16	8		28		S	- S	·····	S	4,06
Construction Phasing and Traffic Control Plan			8		20	Ω		36	\$ 5,380	S	- S		5	5,38
Storm Water Management Plan			0		12	24		40	\$ 6,040		- \$	· · · · · · · · · · · · · · · · · · ·	S	6.04
Landscape and Irrigation Plan and Details					12	1		12	\$ 1,940	S	- \$	5,890		7,83
Validate No New ROW Required			1		8	ρ η		20		S	- \$	3,030	\$	3,06
Technical Specifications			16		16		Ω	40	\$ 5,800	S	- \$	1,140	11	6,94
Quantity Determination and Opinion of Construction Costs			12		24	12		48		S	- \$	2,580		9,90
Quality Review and Revisions		ρ	8		12	12		40		S	S	1,505		8,30
Public Open House			12		16	12		40	\$ 6,320	S	- \$	3,285		9,60
Plan Review			12		10	12	2	10		S	- \$	780		2,35
Bid Documents (PS&E)			28		40	40		108		S	\$	5,260		22,200
Construction Administration														
Pre-Construction Meeting	1		4	***************************************		4		8	\$ 1,400	s	. \$	425	S	1,825
Requests for Information (RFI)	1		8		8	16	Le + v + +	32	\$ 5,040		. \$	425	No. of Concession,	5.465
Shop Submittals			4		8	8		20			. \$	425		3,445
Construction Document Clarification			8			8		16		S	S	425		3,22
Final Acceptance Review			4			4		8	\$ 1,400	\$	\$	-	\$	1,400
Direct Expenses										\$ 1,500	\$		\$	1,500
	. 8	10	240	0	362	310	11	941	\$ 147,065	\$ 1,500	\$	102,300	\$	250,865

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Huitt-Zollars, Inc Additional Services Manhour and Fee Estimate - Phase I

	The Mark		wik den	Mani	nours					F	ee		
Task	PIC	QM	Sr PM	Str Eng	EI	SD	PS		HZ	Direct Expense	Sub Consultant		Total
Idan	\$235	\$225	\$195	\$145	\$125	\$155	\$65		112.	Expense	Consultant		Total
Additional Right-of-Way Services													
Additional Title Commitments (6)								0	s -	s -	s -	s	
Additional ROW Legal Descriptions and Plan Exhibits (6)								Ö	\$ -	\$ -	\$ -	S	
ROW and Easement Acquisition (10)		*******		******	*******						****	-	
Appraisals								0	S -	\$ -	\$ -	\$	
Offer Letters								0	\$ -	s -	s -	\$	
Good Faith Negotiations								0		s -	s -	\$	
Final Legal Descriptions and Plan Exhibits								0		s -	s -	\$	
City Council Approvals								0	R *	s -	\$ -	S	
Real Estate Closings Coordination w/C3 Legal Counsel					***			0		S - S -	s - s -	S	
Utility Potholing (30)													
Utility Potholes			4		A	4		12	\$ 1,900	\$ 24,000	s -	S	25,900
Survey Utility Potholes					••••••••				\$ 1,500	\$ 24,000	\$ 3,120	S	3,120
Incorporate Utility Pothole Data into Utility Plans			4		12	8		24		\$ -	\$ -	\$	3,520
Property Owner/Citizen Coordination													
Compile Ownership List (40)			4				8			s -	\$ -	\$	1,300
Individual Property Owner Meetings (29)			52			16	8	76	\$ 13,140	s -	s -	\$	13,140
Plan Changes after FOR Comments												-	
FOR Revisions									s -	S -	\$ -	\$	
Landscape Revisions								0	S -	S -	\$ -	\$	-
Plan Reproduction Services													
Bid Document Reproduction (per C3 RFP)								0	\$ -	\$ 2,000	s -	S	2,000
Nater and Sanitary Sewer Relocations SACWSD Water and/or Sanitary Sewer Relocation Plans			12			0		28	\$ 4,580	s -		s	4 500
SACWSD Water and/or Sanitary Sewer Relocation Plans SACWSD Special Provisions			12			8		20		s -	\$ - \$ -	S	4,580
Opinion of Construction Costs									\$ -	\$ -	s -	\$	
Retaining Wall Design	51115												
Geotechnical Investigation, Analyses and Foundation Recommendations								0	s -	s -	s -	S	
Retaining Wall Layout and Design						44.1.			\$ -	s -	\$ - \$ -	\$	
Project Special Provisions									S -	\$ -	\$ -	\$	-
Misceallaneous Additional Survey													
Supplemental Field Survey								0	s -	\$ -	\$ 6,240	\$	6,240
Additional Project and Public Coordination													
Progress Meetings			12				2	14		\$ -	\$ - \$ 3,140 \$ -	S	2,470
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)			4		6	4	2	16		s -	\$ 3,140		5,420
Maintain Mail List			2		4		2		\$ 1,020 \$ 910	\$ - \$ -	\$ - \$ -	\$	1,020
Individual Property Owner Meetings (2)			4				2	6	\$ 910	3 -	ş -	\$	910
3id Services Pre-Bid Meeting			2					2	\$ 390	s -	s -	S	390
Pre-Bid Meeting Bid Addenda			2			4		10		\$.	\$ -	\$	1,510
Bid Opening and Documentation			2		4	4		10		s -	\$ -	S	390
Issued for Construction Documents			2		8	8		20		S -	\$ -	S	3,020
13300 IN ONISHOUNDI DOUBLESTIS					0			20	3,020			9	3,020
					-							-	-
Total	0		108	0	46	52	24	230	\$ 36,430	\$ 26,000	\$ 12,500	10	74,930

3 of 16 3/4/2020

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Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Foresight West Surveying

Base Services Manhour and Fee Estimate - Phase I

				Mani	nours					Fee		
Task	Prof Land Surveyor	2 Person Survey Crew	1 Person Survey Crew	Survey CAD Tech	Survey Project Manager	Drone & Pilot	Legal Desc & Exhibits	Total	FWS	Direct Expense	7	Total
	\$140	\$166	\$120	\$120	\$120	\$140	\$550					
Project Management, Design and Stakeholder Coordination Meetings								0	\$	- s -	\$	<u>-</u>
Data Collection, Field Studies and Analysis				***********					*****		ļ	
Kickoff Meeting								0	\$	- \$ -	\$	_
Design Topographic Survey and Mapping	20	30	100	120	4	10		284	\$ 36,060	\$ -	\$	36,060
ROW Research and Ownership Map				60				60	\$ 7,200) S -	\$	7,200
Geotechnical Investigation Analyses, Pavement Design and Recommendations			12		1			13			\$	1,560
Initial Utility Locates and SUE Coordination								O		· \$ -	\$	
Environmental Field Studies								0	\$	\$ -	\$	-
Design									14001140114011	17 SAMESSA - CONSTRUENCE - SAMESA - AMERICAN		
Environmental Agency Coordination and Clearance Letter				*************		*****************		o	s .	· S -	S	
SUE Investigation/CoordDocumentation/IdentifyConflicts/Resolve Conflicts				40	10			50	CONTRACTOR AND ADDRESS OF MALES AND		S	6,000
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0	to the second and have a supplied to be been	· s -	\$	0,000
Roadway Design and Roadside Development								0	s .	. S -	S	
Drainage Design and Details								ol	*****************	. S -	S	
Signing and Striping Plan								0	s .	s -	S	
Construction Phasing and Traffic Control Plan						*************		0	s .	s -	S	
Storm Water Management Plan								0	s .	s -	S	
Landscape and Irrigation Plan and Details								0	s .	ls -	S	
Validate No New ROW Required								0	\$	S -	S	
Technical Specifications								0	\$	s -	S	
Quantity Determination and Opinion of Construction Costs									\$.	s -	S	
Quality Review and Revisions									S -		S	
Public Open House									s .		S	
Plan Review						****		0	\$ -		S	
Bid Documents (PS&E)								0	\$.	\$ -	S	-
Construction Administration												
Pre-Construction Meeting								0	\$ -	s -	S	
Requests for Information (RFI)					P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A - 111 - Wallet C - 1 pinete 4			\$.	S -	S	
Shop Submittals								0	\$ -		S	_
Construction Document Clarification									\$ -	********************	S	
Final Acceptance Review									AND DESIGNATIONS OF THE PARTY OF	\$ -	\$	-
										44.00		
	20	30	112	220	15	10		407	\$ 50,820	s -	s	50,820

Commerce City, Colorado
Preliminary and Final Design of Brighton Road
from E. 104th Ave to E. 112th Ave
Foresight West Surveying
Additional Services Manhour and Fee Estimate - Phase I

				Man	hours					Fee	
	Prof Land	2 Person Survey	1 Person Survey	Survey	Survey Project	Drone &	Legal Desc &			Direct	
Task	Surveyor \$140	\$166	Crew \$120	Tech \$120	Manager \$120	Pilot \$140	Exhibits \$550	Total	FWS	Expense	Total
	3140	3100	\$120	\$120	\$120	\$140	3330				
Additional Right-of-Way Services											
Additional Title Commitments (6)								0		s -	\$
Additional ROW Legal Descriptions and Plan Exhibits (6)								0	\$ -	\$ -	\$
ROW and Easement Acquisition (10)			*****						************		
Appraisals								0		S -	S
Offer Letters								0		S -	\$
Good Faith Negotiations								0		S -	\$
Final Legal Descriptions and Plan Exhibits								0		s -	S
City Council Approvals Real Estate Closings								0	s -	s -	S
Coordination w/C3 Legal Counsel								0		\$ -	S
Octobration woo Edgar Godings											Ž
Jtility Potholing (30)											
Utility Potholes					Toront Bases of the Control			0		S -	\$
Survey Utility Potholes			20	6				26		\$ -	\$ 3,12
Incorporate Utility Pothole Data into Utility Plans								0	\$ -	s -	\$
Property Owner/Citizen Coordination											
Compile Ownership List (40)				7.0.0.0.0.0.0.0.				0		s -	S
Individual Property Owner Meetings (40)								0		s -	\$
					4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Plan Changes after FOR Comments											
FOR Revisions Landscape Revisions								0	\$ - \$ -	s -	S
Laliuscape Revisions				# 3 to 5 to 5 to 1 to 1 to 1 to 1 to 1 to 1							
Plan Reproduction Services											
Bid Document Reproduction (per C3 RFP)								0	s -	\$ -	\$
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE											
Nater and Sanitary Sewer Relocations SACWSD Water and/or Sanitary Sewer Relocation Plans							#. J. J. Comm. 1 (1917)	0	s -	s -	s
SACWSD Special Provisions								0	\$ -	s -	S
Opinion of Construction Costs		1251-12151-1216						0	s -	s -	S
Retaining Wall Design											
Geotechnical Investigation, Analyses and Foundation Recommendations								0	s -	s -	\$
Retaining Wall Layout and Design Project Special Provisions							· · · · · · · · · · · ·	0	S	S	S
Project Special Provisions								0	3		,
Misceallaneous Additional Survey											
Supplemental Field Survey			30	20	2			52	\$ 6,240	\$ -	\$ 6,24
Additional Project and Public Consider:				****							
Additional Project and Public Coordination Progress Meetings								0	s -	s -	s
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)								0		\$ -	\$
Maintain Mail List								0		s -	S
Individual Property Owner Meetings (2)								0	s -	\$ -	\$
Bid Services Pre-Bid Meeting								0	s -	s -	s
Pre-Bid Meeting Bid Addenda				14-15-1-1-1-1				0	s -	s -	S
Bid Opening and Documentation								0	N	s -	S
Issued for Construction Documents		Va			*************			0		\$ -	\$
	_										
Total	0	0	50	26	2	0	0	78	\$ 9,360	s -	\$ 9,36
									0,000		

5 of 16 3/4/2020 Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Kumar and Associates

Base Services Manhour and Fee Estimate - Phase I

	98144	No. of Street		Manh	nours					No.	Fee	
		Proj Eng	Field		Word				R		Direct	
Task	Engineer \$205	Geologist \$90	Engineer \$70	Drafter \$80	Processor \$50			Total		KA	Expense	Total
	\$205	Ψ30	4,0	400	ψ30							
Project Management, Design and Stakeholder Coordination Meetings								0	\$	-	\$ -	\$
Data Collection, Field Studies and Analysis Kickoff Meeting								0	\$		\$ -	\$
Design Topographic Survey and Mapping								0	\$	-	\$ -	\$
ROW Research and Ownership Map Geotechnical Investigation Analyses, Pavement Design and Recommendations	8	28	32	. 7	2			77	\$	7,060	\$ - \$ 10;570	\$ \$ 17.630
Initial Utility Locates and SUE Coordination		20			-			0	\$	-	\$ -	\$
Environmental Field Studies								0	\$		\$ -	\$
Preliminary Design								0	_			
Environmental Agency Coordination and Clearance Letter SUE Investigation, Coordination and Documentation/Identify Conflicts			-					0	\$	- 1	\$ - \$ -	\$
Plan Production (Title Sheet, General Notes, Typical Sections, etc)								0	\$	-	\$ -	\$
Roadway Design								0	\$	-	\$ -	\$
Drainage Design								0	\$	- 1	\$ -	\$
Fulton Ditch Structure General Layout Signing and Striping Plan							-	0	s	- 1	\$ -	s
Construction Phasing and Traffic Control Plan				-				0	Š		\$ -	s
Storm Water Management Plan								0	\$	-	\$ -	\$
Landscape Plan								0	\$		\$ -	\$
Identify Initial ROW Requirements							1	0	\$		\$ -	\$
Technical Specifications Quantity Determination and Opinion of Construction Costs								0	\$	- 5	\$ - \$ -	S
Quality Review and Revisions								0	Š	- 1	\$ -	S
Public Open House								0	\$	-	\$ -	\$
Field Inspection Review (FIR)								0	\$	-	\$ -	\$
Final Design										- 1		
SUE Coordination/Conflict Resolution					3			0	\$	-	\$ -	\$
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0	\$	- 1	\$ -	\$
Roadway Design and Roadside Development Drainage Design and Details								0	\$	01	\$ - \$ -	\$
Fulton Ditch Structure Design and Details					į į		1	ľ	*	- 1		
Signing and Striping Plan								0	\$	-	\$ -	\$ -
Construction Phasing and Traffic Control Plan								0	\$	-	\$ -	\$ -
Storm Water Management Plan								0	\$	-	\$ -	\$.
Landscape and Irrigation Plan and Details ROW Plans, Legal Descriptions and Plan Exhbiits							-	0	\$	- 1	\$ - \$ -	\$
Technical Specifications				-	- 3		_	0	\$	21	\$ -	S
Quantity Determination and Opinion of Construction Costs							-	0	\$	-	\$ -	\$
Quality Review and Revisions								0	\$		\$ -	\$.
Final Office Review (FOR)				_				0	\$	-	\$ -	\$
Construction Administration												
Pre-Construction Meeting								0	\$		\$ -	\$
Requests for Information (RFI) Shop Submittals								0	\$		\$ - \$ -	\$
Construction Document Clarification					******			0	\$		\$ -	S
Final Acceptance Review								0	\$		\$ -	\$
	8	28	32	7	2	0	0	77	\$	7,060	\$ 10,570	\$ 17,630

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave ACI Consulting Group Base Services Manhour and Fee Estimate - Phase I

	Real St			Mani	hours					Fee	
Task	Principal Ecologist	PM	Arch Lead	Scientist	Scientist	Admin		Total	ACI	Direct Expense	
	\$195	\$135	\$110	\$135	\$95	\$55	-	Total	ACI	Expense	Total
Project Management, Design and Stakeholder Coordination Meetings	2	8				8		18	\$ 1,910	\$ -	\$ 1,91
Data Collection, Field Studies and Analysis											
Kickoff Meeting Design Topographic Survey and Mapping								0	\$ -	\$ -	\$
ROW Research and Ownership Map								0	\$ -	s -	\$
Geotechnical Investigation Analyses, Pavement Design and Recommendations	-							0	\$ -	\$ -	\$
Initial Utility Locates and SUE Coordination	-								\$ - \$ -	\$ - \$ -	\$
Environmental Field Studies	-	16	4		16				\$ 4,120	s -	\$ 4,12
							************			***************************************	
Preliminary Design											
Environmental Agency Coordination and Clearance Letter	2	16	8		16				\$ 4,950	\$ -	\$ 4,95
SUE Investigation, Coordination and Documentation/Identify Conflicts Plan Production (Title Sheet, General Notes, Typical Sections, etc)									\$ -	\$ -	\$
Roadway Design									\$ -	\$ -	\$
Drainage Design									\$ -	\$ -	\$
Fulton Ditch Structure General Layout								0	\$ -	\$ -	\$
Signing and Striping Plan	-							0	\$ -	\$ -	\$
Construction Phasing and Traffic Control Plan								0	\$ - \$ -	\$ -	\$
Storm Water Management Plan	1								\$ -	\$ -	S
Landscape Plan							**********	0	\$ -	\$ -	\$
Identify Initial ROW Requirements									\$ -	\$ -	\$
Technical Specifications					*************				\$ -	\$ -	\$
Quantity Determination and Opinion of Construction Costs									\$ -	s -	\$
Quality Review and Revisions								0	\$ -	\$ -	\$
Public Open House									\$ -	\$ -	\$
Field Inspection Review (FIR)								0	\$ -	\$ -	\$
Final Design		200000000000000000000000000000000000000				A					
SUE Coordination/Conflict Resolution								0	\$ -	s -	\$
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0	\$ -	\$ -	\$
Roadway Design and Roadside Development						(*			s -	\$ -	S
Drainage Design and Details									\$ -	\$ -	s
Fulton Ditch Structure Design and Details	1										
Signing and Striping Plan									\$ -	\$ -	\$
Construction Phasing and Traffic Control Plan	J	2000/00/20							S -	\$ -	\$
Storm Water Management Plan Landscape and Irrigation Plan and Details	I	street, and and a sector							\$ -	\$ -	\$
ROW Plans, Legal Descriptions and Plan Exhbiits									\$ -	\$ -	\$
Technical Specifications									\$ - \$ -	\$ - \$ -	\$
Quantity Determination and Opinion of Construction Costs	1								\$ - \$ -	\$ -	\$
Quality Review and Revisions									\$ -	\$ -	\$
Final Office Review (FOR)		40-10-20-20-20		/12/	1150-11-17-17				\$ -	\$ -	\$
Construction Administration Pre-Construction Meeting										45	
Requests for Information (RFI)								0	\$ -	\$ -	\$
Shop Submittals	I							0	\$ -	\$ -	\$
Construction Document Clarification									\$ - \$ -	\$ - \$ -	\$
Final Acceptance Review									\$ -	\$.	S
						-					
	4	40	12	0	32	8	0	96	\$ 10,980	\$ -	\$ 10,980

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave DHM Design

Base Services Manhour and Fee Estimate - Phase I

				Mani	nours				Fee		
Task	PIC/PM	PM	Designer	Irrigation Designer		Total		DHM	Direct Expense		Total
	\$170	\$100	\$90	\$90		Total	十	Dine	LAPONSE	7	Total
Project Management, Design and Stakeholder Coordination Meetings						 	0 \$	-	\$	-	\$
Data Collection, Field Studies and Analysis							-				
Kickoff Meeting	4					 ***********	4 \$	680	S 5	0	73
Design Topographic Survey and Mapping	***					 	0 \$	- 000	S		8 73
ROW Research and Ownership Map					*		0 \$		S		5
Geotechnical Investigation Analyses, Pavement Design and Recommendations							0 \$		\$	-	
Initial Utility Locates and SUE Coordination							ol s		\$	-	
Environmental Field Studies						 CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAMED IN CONTRA	0 \$		\$	-	
Design						 	-				
Environmental Agency Coordination and Clearance Letter			A A			 	0 \$		S	-	
SUE Investigation/CoordDocumentation/IdentifyConflicts/Resolve Conflicts						 	0 \$		\$	-	
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)						 	ols		\$	- 1	
Roadway Design and Roadside Development						 	ol s	-	S	- 3	
Drainage Design and Details						 	0 8		S	-	
Signing and Striping Plan				*10*********		 	ol s	-	S	-	**************
Construction Phasing and Traffic Control Plan						 	ols	-	S	- 3	
Storm Water Management Plan							ols	-	S	- 3	
Landscape and Irrigation Plan and Details	8	16	32			 56	- 11	5,840	\$ 5	0 3	5,89
Validate No New ROW Required						(\$		S	- 3	
Technical Specifications	2	8				 10		1,140	S	- 3	1,14
Quantity Determination and Opinion of Construction Costs	2	8	16			26	3 8	2,580	S	- 3	I work to be a second or and the difference of the second or and the second or and the second or and the second or and the second or an additional or additional
Quality Review and Revisions	4	8				12	2 5	1,480	\$ 2		
Public Open House	6	8	16			30	\$	3,260	\$ 2		
Plan Review	4					4	1 5	680	\$ 10		or the state of th
Bid Documents (PS&E)	8	20	20			 48	\$	5,160	\$ 10	0 5	5,26
Construction Administration			****************			 	-		**********	-	
Pre-Construction Meeting		4				2	1 5	400	\$ 2	5 5	42
Requests for Information (RFI)		4				4	1 5	400	\$ 2		
Shop Submittals		4				4	1 \$	400	\$ 2		
Construction Document Clarification		4				4	1 5	400	\$ 2	5 5	42
Final Acceptance Review						 (\$		\$	- 5	*************
	38	84	84			206	\$	22,420	\$ 45	0 5	22,870

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave DHM Design

Additional Services Manhour and Fee Estimate - Phase I

				Mant	iours		1			Fee '	
Task	PIC/PM	PM	Designer	Irrigation Designer				Total	DHM	Direct Expense	Total
1421	\$170	\$100	\$90	\$90	-		-	Total	DHM	Expense	Total
Additional Biola of Was Consissa											
Additional Right-of-Way Services Additional Title Commitments (6)											
Additional ROW Legal Descriptions and Plan Exhibits (6)								0	S - S -	s - s -	S
ROW and Easement Acquisition (10)										************	
Appraisals				***********				0	s -	s .	S
Offer Letters								0		s .	S
Good Faith Negotiations			1					0		s .	S
Final Legal Descriptions and Plan Exhibits								0	s -	S -	S
City Council Approvals						1,100		0	S -	S -	S
Real Estate Closings			1			-		0	s -	s -	S
Coordination w/C3 Legal Counsel			- 1 - 1 - 1 - 1 - 1				************	0	\$ -	\$ -	S
Itility Potholing (30)	-								***********		
Utility Potholes								0	\$ -	\$ -	S
Survey Utility Potholes								0	s -	s -	\$
Incorporate Utility Pothole Data into Utility Plans						************		0	\$ -	s -	\$
Property Owner/Citizen Coordination							100000000000000000000000000000000000000		*****************		
Compile Ownership List (40)								0	s -	\$ -	S
Individual Property Owner Meetings (40)								0	\$ -	\$ -	\$
Plan Changes after FOR Comments										******************	
FOR Revisions								0	S -	\$ -	S
Landscape Revisions								0	\$ -	S -	S
Plan Reproduction Services			and the law								
Bid Document Reproduction (per C3 RFP)								0	s .	\$ -	S
Nater and Sanitary Sewer Relocations											
SACWSD Water and/or Sanitary Sewer Relocation Plans								0	S -	S -	\$
SACWSD Special Provisions								0	s -	s -	S
Opinion of Construction Costs								0	\$ -	s	\$
Retaining Wall Design											
Geotechnical Investigation, Analyses and Foundation Recommendations Retaining Wall Layout and Design								0	\$ -	\$ -	\$
Project Special Provisions			and the same					0	s - s -	s - s -	\$
Misceallaneous Additional Survey										***********	
Supplemental Field Survey			er e musero					0	s -	s -	s
Additional Project and Public Coordination								1515741544			
Progress Meetings							***********	0	s -	c	
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)	5	8	16					29		\$ 50	\$ 3,14
Maintain Mail List Individual Property Owner Meetings (2)								0	\$ 3,090 \$ - \$ -	S -	S
Bid Services	-						·				
Pre-Bid Meeting								0	\$ -	\$ -	\$
Bid Addenda								0	s -	\$ -	\$
Bid Opening and Documentation Issued for Construction Documents								0	\$ - \$ -	s -	S
1330EQ 101 CONSTRUCTION DOCUMENTS								0	3 .		3

Total	5	8	16	0	0	0	0	29	\$ 3,090	\$ 50	\$ 3,140

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Huitt-Zollars, Inc

Base Services Manhour and Fee Estimate - Phase II

ollection, Field Studies and Analysis Iff Meeting mary Design Investigation, Coordination and Documentation/Identify Conflicts Production (Title Sheet, General Notes, Typcial Sections, etc) way Design age Design n Ditch Bridge Type Selection Study and General Layout ng and Striping Plan truction Phasing and Traffic Control Plan I Water Management Plan scape Plan ROW Requirements nical Specifications titly Determination and Opinion of Construction Costs ty Review and Revisions c Open House Inspection Review (FIR) esign Coordination/Conflict Resolution Acquisition Documents Production (Title Sheet, General Notes, Typcial Sections, etc) way Design and Roadside Development age Design and Details n Ditch Structure Design and Details ng and Striping Plan truction Phasing and Traffic Control Plan I Water Management Plan scape and Irrigation Plan and Details Plans, Legal Descriptions and Plan Exhbits nical Specifications tity Determination and Opinion of Construction Costs ty Review and Revisions Office Review (FOR)				Mant	ours					1	ee	
Task	PIC	QM	Sr PM	Str Eng	EI	SD	PS		HZ	Direct Expense	Sub Consultant	Total
Idah	\$235	\$225	\$205	\$145	\$125	\$155	\$65		112	Lapense	Consultant	Total
roject Management, Design and Stakeholder Coordination Meetings	6		16			12		34	\$ 6,550	s -	\$ 105	\$ 6,65
Data Calliantian Field Chadian and Applicate		A 40 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -										
Kickoff Meeting	2	2	6	2	2	2	1	17	\$ 3,065	s -	s -	\$ 3,06
Preliminary Design												
SUE Investigation, Coordination and Documentation/Identify Conflicts			4	2	12 20	12 20		28 46	\$ 4,180 \$ 6,710	S - S -	\$ - \$ -	\$ 4,18 \$ 6,71
Roadway Design			4		16	8			\$ 4,060	S -	s -	\$ 4,06
			1		24	12			\$ 5,680	\$ -	s -	1 -
			9	100	12	8		128		S -	\$ -	
			4	100	8	4		16		S -	s -	
					8			12		S -	S -	\$ 2,44 \$ 1.82
			7		8	16						1
			4		4	4		28		\$ - \$ -	\$ -	\$ 4,30
			- 4		8	4		10	\$ 1,530	\$ -	\$ -	\$ 1,53
			4		8	8		20			\$ 210 \$ -	\$ 3,27
			4		12	8	4	24		S -	S -	\$ 3,32
			9	2	4	4		20			\$ - \$ -	\$ 3,56
		8	4	- 4	16	12				\$ - \$ -	Committee of the state of the s	\$ 3,62
			4		16	12	2	32 10		S -	\$ 210 \$ -	\$ 4,89
Tield inspection review (Firty							2		1,370		3	\$ 1,57
Final Design										TWO SEC. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
SUE Coordination/Conflict Resolution			4		12	12		28			S -	\$ 4,18
ROW Acquisition Documents			8		16	12		36		\$ -	\$ 31,920	\$ 37,42
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)			2	2	16	16		36		\$ -	\$ -	\$ 5,18
Roadway Design and Roadside Development			4		8			12	1,820	\$ -	\$ -	\$ 1,82
Drainage Design and Details			2		8			10	1,410	\$ -	\$ -	\$ 1,41
Fulton Ditch Structure Design and Details	-		4	192	16	8		220	31,900	\$ -	s -	\$ 31,90
Signing and Striping Plan			2		8			10	1,410	S -	S -	S 1,410
Construction Phasing and Traffic Control Plan			2		8			10	1,410	S -	s -	\$ 1,410
Storm Water Management Plan			2			16		18	2,890	s -	S -	\$ 2,890
Landscape and Irrigation Plan and Details			2		4	4		10		s -	s -	\$ 1,530
ROW Plans, Legal Descriptions and Plan Exhbiits								0		s -	S -	S
Technical Specifications			2		8	8	4	22		s -	s -	\$ 2,910
Quantity Determination and Opinion of Construction Costs		-14-4-4-14-15-1	4	8	12	8		32	4,720	S -	\$ -	\$ 4,720
Quality Review and Revisions		12	2	4	8	8		34		S -	\$ -	\$ 5,930
Final Office Review (FOR)			4			4	2	10 3		s -	S -	\$ 1,570
Bid Documents			12	8	16	16	• • • • • • • • • • • • • • • • • • • •	52		s -	s -	\$ 8,100
Construction Administration												
Pre-Construction Meeting			4			Α		8	1,400	s -	s -	\$ 1,400
Requests for Information (RFI)			4	4	12	12		32		\$ -	\$ -	
Shop Submittals			- 7	16	12	0		36		s -	\$ - S -	\$ 4,720 \$ 5,340
Construction Document Clarification			4	4	0	0		12		\$ - \$ -		
Final Acceptance Review		.,	4	4		4		12		\$ -	s - s -	\$ 1,980 \$ 1,980
Direct Expenses										\$ 2,000		\$ 2,000
	-1.						**************			*		****
		22	158	348	322	286	13	1,157	174,905	\$ 2,000	\$ 32,445	\$ 209,350

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Huitt-Zollars, Inc

Additional Services Manhour and Fee Estimate - Phase II

				Mani	nours	-			Fee					
Task	PIC	QM	Sr PM	Str Eng	EI	SD	PS		HZ	Direct Expense	C	Sub	Total	
The second secon	\$235	\$225	\$195	\$145	\$125	\$155	\$65							
Additional Right-of-Way Services					*********									
Additional Title Commitments (6)				*				0		S	- \$	3,000	\$ 3,0 \$ 5,3	
Additional ROW Legal Descriptions and Plan Exhibits (6)			2		6	6		14	\$ 2,070	5	- \$	3,300	\$ 5,3	
ROW and Easement Acquisition (10)														
Appraisals								0		\$ S	- \$	8,570	\$ 8,5 \$ 4,2	
Offer Letters								0	s -		- \$	4,285		
Good Faith Negotiations								0	\$ -	S	- \$		\$ 31,3 \$ 2,0	
Final Legal Descriptions and Plan Exhibits								0	\$ - \$ 1,880	S	- S - S	2,040	\$ 1,8	
City Council Approvals	8							0	\$ 1,000	S	- \$	3,345	\$ 3,3	
Real Estate Closings								0		S .	- \$.	3,345	\$ 3,3 \$ 3,3	
Coordination w/C3 Legal Counsel						********			3		- 3.	3,345	\$ 3,3	
Utility Potholing														
Utility Potholes					***			0		S	- \$		S	
Survey Utility Potholes								. 0		\$	- \$			
Incorporate Utility Pothole Data into Utility Plans								0	\$ -	\$	- \$		S	
Property Owner/Citizen Coordination														
Compile Ownership List (40)						*********		0	\$ - \$ 5,710	S	- S		S	
Individual Property Owner Meetings (11)			20			10	4	34	\$ 5,710	S	- \$		\$ 5,7	
Plan Changes after FOR Comments		nero nellar												
FOR Revisions								0		S	- \$	-	S	
Landscape Revisions			and the same					0	s -	\$	- \$		S	
Plan Reproduction Services														
Bid Document Reproduction (per C3 RFP)								0	\$ -	\$ 2,00	0 \$		\$ 2,0	
Water and Sanitary Sewer Relocations						*******			~~~					
SACWSD Water and/or Sanitary Sewer Relocation Plans			8		8	8		24	\$ 3,800		- \$	-	\$ 3,8	
SACWSD Special Provisions								0	\$ -	\$	- \$	-	\$	
Opinion of Construction Costs								0	s -	S	- \$	· · · · · · · · · · · · · · · ·	\$	
Retaining Wall Design														
Geotechnical Investigation, Analyses and Foundation Recommendations								0	\$ - \$ 7,040	S	- \$	4,795	\$ 4,7	
Retaining Wall Layout and Design			8		24	16		48	\$ 7,040	\$	- \$		\$ 7,0	
Project Special Provisions			4		4		2	10	\$ 1,410	\$	- \$	-	\$ 1,4	
Misceallaneous Additional Survey													*************	
Supplemental Field Survey								0	s -	\$	- \$		\$	
Additional Project and Public Coordination														
Progress Meetings			12				2	14	\$ 2,470 \$ 2,280 \$ 1,020		- \$		\$ 2,4	
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)			4		6	4	2	16	\$ 2,280		- \$		\$ 2,2	
Maintain Mail List			2		4		2	8	\$ 1,020		- \$		\$ 1,0	
Individual Property Owner Meetings (2)			4				2	6	\$ 910	\$	- \$		\$ 9	
Bid Services														
Pre-Bid Meeting			2					2			- \$		\$ 3	
Bid Addenda			2		4	4		10	\$ 1,510		- 8.		\$ 1,5	
Bid Opening and Documentation			2					2			- \$		\$ 3,0	
Issued for Construction Documents			4		8	8		20	\$ 3,020	\$	- \$	-	\$ 3,0	
			+:											
Total	8	0	74	0	64	56	14	216	\$ 33,900	\$ 2,00	0 S	64,030	\$ 99,9	
lotal			1.4		04	00			00,000	2,00	-	5.,556		

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Foresight West Surveying
Base Services Manhour and Fee Estimate - Phase II

				Fee							
	Prof Land	2 Person Survey	1 Person Survey	Survey CAD Tech	Survey Project	Drone & Pilot	Legal Desc &	Total	FWS	Direct Expense	Total
Task	Surveyor	Crew	Crew \$120	\$120	Manager \$120	\$140	\$550	Total	FWS	Expense	Total
	\$140	\$166	\$120	\$120	\$120	\$140	\$330				
roject Management, Design and Stakeholder Coordination Meetings								0	\$ -	\$ -	\$
A. C. W. at a. Fl. Id Ch. dise and Analysis											-
lata Collection, Field Studies and Analysis Kickoff Meeting								0	s -	s -	S
Nickoli Weeking					************						
reliminary Design											
SUE Investigation, Coordination and Documentation/Identify Conflicts								0	s -	\$ -	\$
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0	s -	s -	S
Roadway Design	_							0	s -	s -	S S
Drainage Design	_							0	s -	\$ -	2
Fulton Ditch Bridge Type Selection Study and General Layout											
Signing and Striping Plan								0	\$ -	\$ -	\$
Construction Phasing and Traffic Control Plan								0	s -	s -	S
Storm Water Management Plan								0	s -	s -	\$
Landscape Plan								0	s -	s -	S
Identify Initial ROW Requirements								0	s -	s -	S
Technical Specifications								0	s -	s -	S
Quantity Determination and Opinion of Construction Costs								0	\$ -	S -	S
Quality Review and Revisions							1	0	S -	s · -	S
Public Open House								0	\$ -	\$ -	\$
Field Inspection Review (FIR)					**********	414.000.000.000		0	\$ -	s -	\$
									***************************************		-
inal Design								0	s -	s -	\$
SUE Coordination/Conflict Resolution	40		48	90	0		16	202	\$ 31,920	s -	\$ 31,92
ROW Acquisition Documents	40		40	90	0		10	0	\$ 31,320	s -	\$ 51,52
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0	S -	s -	S
Roadway Design and Roadside Development								0	s -	S	S
Drainage Design and Details											
Fulton Ditch Structure Design and Details								0	s -	s -	S
Signing and Striping Plan								0	S -	\$ -	S
Construction Phasing and Traffic Control Plan		*********						0	s -	\$ -	S
Storm Water Management Plan								0	\$ -	S	
Landscape and Irrigation Plan and Details								0	\$ -	\$ -	\$
ROW Plans, Legal Descriptions and Plan Exhbiits								0	\$ -		
Technical Specifications								0	S -	S -	S
Quantity Determination and Opinion of Construction Costs								0	S -	S -	S
Quality Review and Revisions								0	S -	S -	S
Final Office Review (FOR)								0	S -	s -	S
Bid Documents									3	3	13
Construction Administration			190120000000000000000000000000000000000		100 A A A A A A A A A A A A A A A A A A	***********					
Pre-Construction Meeting								0	s -	\$ -	\$
Requests for Information (RFI)						A-1, 1-4 (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)	4-1-46	0		\$ -	\$
Shop Submittals	45 (4) 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6							0	s -	\$ -	\$
Construction Document Clarification								0	\$ -	S -	\$
Final Acceptance Review						*************		0	\$ -	\$ -	\$
That recognition to the temperature and the te						*************					
				e a trio to encate							
	40	0	48	90	8	0	16	202	\$ 31,920	6	\$ 31,93

12 of 16 3/4/2020 Commerce City, Colorado
Preliminary and Final Design of Brighton Road
from E. 104th Ave to E. 112th Ave
Foresight West Surveying

Foresight West Surveying
Additional Services Manhour and Fee Estimate - Phase II

					Fee						
Task	Prof Land Surveyor	2 Person Survey Crew	1 Person Survey Crew	Survey CAD Tech	Survey Project Manager	Drone & Pilot	Legal Desc & Exhibits	Total	FWS	Direct Expense	Total
IGSN	\$140	\$166	\$120	\$120	\$120	\$140	\$550	101111			
Additional Right-of-Way Services								0	s .	s .	s
Additional Title Commitments (6) Additional ROW Legal Descriptions and Plan Exhibits (6)							6	6			\$ 3,30
OM - 15											
ROW and Easement Acquisition (10) Appraisals			1		1111.00			0	s -	s -	s
Offer Letters								0	s -	S -	\$ \$ \$ \$ 2,04
Good Faith Negotiations								0	s .	S -	S
Final Legal Descriptions and Plan Exhibits	6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10			**********	16	\$ 2,040	S -	\$ 2,04
City Council Approvals								0	\$ -	\$ -	\$
Real Estate Closings								0	\$ -	S -	S
Coordination w/C3 Legal Counsel								0	\$ -	\$ -	\$
Itility Potholing (30)					*****						
Utility Potholes			*********		********			0	s .	s -	s
Survey Utility Potholes								0		S -	S
Incorporate Utility Pothole Data into Utility Plans								0		\$ -	S
Property Owner/Citizen Coordination											
Compile Ownership List (40)			*******					0	s -	s -	s
Individual Property Owner Meetings (40)								0		\$ -	S
Plan Changes after FOR Comments								0	s -	s -	\$
FOR Revisions								0		S	S
Landscape Revisions									3	3	3
Plan Reproduction Services				**********					s -	s -	s
Bid Document Reproduction (per C3 RFP)									3	3	3
Vater and Sanitary Sewer Relocations											
SACWSD Water and/or Sanitary Sewer Relocation Plans								0		s -	S
SACWSD Special Provisions								0		s -	S
Opinion of Construction Costs								0	s -	\$ -	S
Retaining Wall Design		İ					**********	***********	1-01010-0000000000000000000000000000000		
Geotechnical Investigation, Analyses and Foundation Recommendations			111111111111111111111111111111111111111	*****				0		\$ -	S
Retaining Wall Layout and Design			14)			1 hor (h,) and a contract		0		\$ -	\$
Project Special Provisions								0	S -	\$ -	S
lisceallaneous Additional Survey											1
Supplemental Field Survey								0	s -	\$ -	S
Additional Project and Public Coordination			1+	***							
Progress Meetings								0		\$.	\$
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)								C		S -	S
Maintain Mail List								0		\$ -	S
Individual Property Owner Meetings (2)								0	s -	\$ -	S
id Services											
Pre-Bid Meeting								0		\$ -	\$
Bid Addenda								C		s -	S
Bid Opening and Documentation			************					C		\$ -	\$
Issued for Construction Documents								C	s -	\$ -	\$
					173151101131111						
Total		0	0	10	0	0	6	22	\$ 5,340	s .	\$ 5,34
Total		'	0	10	U	U	0	- 22	0,040		3,0

Commerce City, Colorado
Preliminary and Final Design of Brighton Road
from E. 104th Ave to E. 112th Ave
Kumar and Associates

Kumar and Associates
Additional Services Manhour and Fee Estimate - Phase II

	A STATE OF THE STA	THE RESERVE AND ADDRESS.		Manhours							
Task	Principal Engineer	Proj Eng Geologist	Field Engineer	Drafter	Word Processor			Total	КА	Direct Expense	Total
1030	\$205	\$90	\$70	\$80	\$50						
additional Right-of-Way Services										s -	
Additional Title Commitments (6) Additional ROW Legal Descriptions and Plan Exhibits (6)								0	S - S -	\$ -	\$
ROW and Easement Acquisition (10)											
Appraisals								0	s -	s -	S
Offer Letters								0	\$ -	\$ -	\$
Good Faith Negotiations								0	s -	\$ -	S
Final Legal Descriptions and Plan Exhibits								0	s -	s -	\$
City Council Approvals								0	s -	\$ -	S
Real Estate Closings								0	\$ -	s -	S
Coordination w/C3 Legal Counsel		, a						0	\$ -	\$ -	\$
Jtility Potholing (30)									s -	s -	
Utility Potholes								0	S -	\$ -	S
Survey Utility Potholes											S
Incorporate Utility Pothole Data into Utility Plans								0	\$ -	s -	\$
Property Owner/Citizen Coordination								0		s -	s
Compile Ownership List (40) Individual Property Owner Meetings (40)								0	s - s -	S -	S
Plan Changes after FOR Comments FOR Revisions								0	s -	s -	s
Landscape Revisions		1						0	s .	s -	S
Landscape Revisions											
Plan Reproduction Services Bid Document Reproduction (per C3 RFP)								0	s -	s -	\$
Water and Sanitary Sewer Relocations											
SACWSD Water and/or Sanitary Sewer Relocation Plans								0	S -	S -	S
SACWSD Special Provisions								0	s -	S -	S
Opinion of Construction Costs								0	\$ -	s -	\$
Retaining Wall Design								40	4.545	\$ 3,280	\$ 4,795
Geotechnical Investigation, Analyses and Foundation Recommendations	1	5	10	2				18			
Retaining Wall Layout and Design								0	s -	s -	S
Project Special Provisions									,	3	3
Misceallaneous Additional Survey											
Supplemental Field Survey								0	s -	s -	\$
Additional Project and Public Coordination								100-110-010-01			
Progress Meetings								0		s -	\$
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)								0	s -	\$ -	S
Maintain Mail List			(Marie 1, 100 m d - 1 mm) (p 4 m)					0	\$ -	s -	. S
Individual Property Owner Meetings (2)								0	\$ -	s -	S
Bid Services											
Pre-Bid Meeting								0		\$ -	\$
Bid Addenda								0		\$ -	\$
Bid Opening and Documentation								0	1	S -	\$
Issued for Construction Documents									3 .	3	3
											-
Total	1	5	10	2	0	0	0	18	\$ 1,515	\$ 3,280	\$ 4,79

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Universal Field Services - 5 5°

				Mani	nours		22/16				
		Senior								Direct	
Task	PM	Agent					7148460	Total	UFS	Expense	Total
	\$105	\$94					1.01.000			*****	
Project Management, Design and Stakeholder Coordination Meetings		1,						1	\$ 105	\$ -	\$ 10
Data Collection, Field Studies and Analysis										Management (1111)	
Kickoff Meeting								0	\$ -	\$ -	\$
Preliminary Design				*****							
SUE Investigation, Coordination and Documentation/Identify Conflicts							1	- 0	\$	\$ -	\$
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0	\$ -	\$ -	\$
Roadway Design								0	\$ -	\$ -	\$
Drainage Design								0	\$ -	\$ -	\$
Fulton Ditch Bridge Type Selection Study and General Layout						1					1
Signing and Striping Plan								0	\$ -	\$ -	\$
Construction Phasing and Traffic Control Plan								0	s -	S -	S
Storm Water Management Plan								0	\$ -	\$ -	S
Landscape Plan								0	\$ -	S -	\$
								2	\$ 210	\$ -	\$ 21
Initial ROW Requirements								0	s -	s -	S
Technical Specifications								0		S -	S
Quantity Determination and Opinion of Construction Costs								0	T	s -	S
Quality Review and Revisions									\$ 210	s -	\$ 21
Public Open House								0	11 / 1 / 1 / 1 m - 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	s -	¢ 21
Field Inspection Review (FIR)								· · · · · · ·		3	
Final Design											S
SUE Coordination/Conflict Resolution									s -	s -	11 -
ROW Acquisition Documents								0	×	s -	S
Plan Production (Title Sheet, General Notes, Typcial Sections, etc)								0		s -	\$
Roadway Design and Roadside Development					**********				S -	s -	S
Drainage Design and Details								0	\$ -	\$ -	\$
Fulton Ditch Structure Design and Details											
Signing and Striping Plan									\$ -	\$ -	\$
Construction Phasing and Traffic Control Plan								0	S -	S -	\$
Storm Water Management Plan								0		s -	\$
Landscape and Irrigation Plan and Details									\$ -	\$ -	\$
ROW Plans, Legal Descriptions and Plan Exhbiits									\$ -	\$ -	\$
Technical Specifications		-						0	\$ -	\$ -	\$
Quantity Determination and Opinion of Construction Costs								0	\$ -	\$ -	\$
Quality Review and Revisions								0	\$ -	\$ -	\$
Final Office Review (FOR)								0	S -	\$ -	S
Bid Documents								0	\$ -	\$ -	\$
Construction Administration										*******	
Pre-Construction Meeting								0	s -	\$ -	\$
Requests for Information (RFI)								. 0		s	S
								0		s -	S
Shop Submittals									š -	s -	S
Construction Document Clarification		-						0		S -	S
Final Acceptance Review		e a monte									
	11	5 0	1 () (1 (11 (111 5	\$ 525	\$ -	\$ 52

Commerce City, Colorado Preliminary and Final Design of Brighton Road from E. 104th Ave to E. 112th Ave Universal Field Services

Universal Field Services

	1000					Fee					
		Senior						Total	UFS	Direct Expense	Total
Task	PM \$105	Agent \$94	-	-	-	-		Total	UF3	Expense	Total
	3103	Q 34			***********						
Additional Right-of-Way Services											
Additional Title Commitments (6)								0	S -	\$ 3,000 \$ -	\$ 3,000
Additional ROW Legal Descriptions and Plan Exhibits (6)								0	5 -	5 -	\$
ROW and Easement Acquisition (10)											
Appraisals	10	80						90	\$ 8,570	\$ -	\$ 8,57 \$ 4,28
	5	40						45	\$ 4,285		\$ 4,28
Offer Letters	30	300						330	\$ 31,350	\$ -	\$ 31,35
Good Faith Negotiations	30	000							\$ -	S -	S
Final Legal Descriptions and Plan Exhibits									s -	s -	\$ \$ \$ 3,345 \$ 3.345
City Council Approvals										s -	\$ 3,345
Real Estate Closings	5	30							\$ 3,345	s -	\$ 3,345
Coordination w/C3 Legal Counsel		30						35	\$ 3,345	3 -	\$ 3,346
Itility Potholing (30)						18.8 20.01 (2000)					
Utility Potholes								0	\$ -	\$ -	\$
Survey Utility Potholes					*****			0	\$ -	\$ -	S
Incorporate Utility Pothole Data into Utility Plans			***********					0	\$ -	\$	S
Property Owner/Citizen Coordination					****						
Compile Ownership List (40)								0		S -	S
Individual Property Owner Meetings (40)								0	\$.	\$ -	\$
Plan Changes after FOR Comments					*****				*		****************
								0	s -	\$ -	S
FOR Revisions								0	s -	\$ -	S
Landscape Revisions											
Plan Reproduction Services											
Bid Document Reproduction (per C3 RFP)								0	\$ -	S -	\$
Nater and Sanitary Sewer Relocations											
								0	s -	s -	S
SACWSD Water and/or Sanitary Sewer Relocation Plans								0	s -	S -	S
SACWSD Special Provisions								0	\$ -	\$ -	S
Opinion of Construction Costs											
Retaining Wall Design											
Geotechnical Investigation, Analyses and Foundation Recommendations					l			0	s -	s -	S
Retaining Wall Layout and Design					1			0	\$ -	\$ -	\$
Project Special Provisions								0	\$ -	\$ -	\$
Misceallaneous Additional Survey								0	s -	s -	S
Supplemental Field Survey											
Additional Project and Public Coordination											
Progress Meetings								0	\$ -	s -	S
Public Open House (1) (inc'l location arrangements, exhibits, notification, etc)								0	\$ -	S -	S
Maintain Mail List	1							0	\$ -	S -	\$
Individual Property Owner Meetings (2)								0	s -	\$ -	S

Bid Services Pre-Bid Meeting							***********	0	s -	s -	\$
					1			0	\$ -	\$ -	\$
Bid Addenda								0		s -	\$
Bid Opening and Documentation								0		s -	S
Issued for Construction Documents											
										-	
			1	1	1	1	1			\$ 3,000	\$ 53,89