### TOWN OF CASTLE ROCK SERVICES AGREEMENT (Plum Creek Parkway Widening/Roundabout Project Design)

## **DATE:** \_\_\_\_\_, 2020.

**ROCK** a Colorado municipal corporation 100 N

**PARTIES:** TOWN OF CASTLE ROCK, a Colorado municipal corporation, 100 N. Wilcox Street, Castle Rock, Colorado 80104 ("Town").

**KIMLEY-HORN AND ASSOCIATES, INC.,** a North Carolina corporation, 4582 South Ulster Street, Suite 1500, Denver, Colorado 80237 ("Consultant").

### **RECITALS:**

- A. Town and Consultant are parties to the Town of Castle Rock Services Agreement (Plum Creek Parkway Widening/Roundabout Design) dated April 3, 2018 ("Agreement").
- B. The Service Agreement (Plum Creek Parkway Widening/Roundabout Design) dated April 3, 2018 was modified by the First Amendment dated September 18, 2018 ("First Amendment").
- C. The parties have determined that it is necessary and appropriate to amend the Agreement to include additional scope of services, to increase the contract sum for such additional work, and to change the completion date.

### **TERMS:**

Section 1. <u>Amendment.</u> Section 1 of the Agreement is amended to include the additional scope of services as described in the attached *Exhibit 1*. Section 2 of the Agreement is amended to increase the amount paid to the Consultant by an additional \$294,736. In no event shall the cumulative payment to the Consultant exceed \$860,286, unless authorized in writing by the Town. Section 3 of the Agreement is amended to change the completion date of these services to December 30, 2021.

Section 2. <u>Ratification</u>. Except to the extent expressly modified by this Second Amendment and the First Amendment, the Agreement is in full force and effect. To the extent of any inconsistency between this Second Amendment, the First Amendment, and the Agreement, the terms and conditions of this Second Amendment shall control.

## ATTEST:

## TOWN OF CASTLE ROCK

Lisa Anderson, Town clerk

Approved as to form:

Jason Gray, Mayor

Approved as to content:

Michael J. Hyman, Town Attorney

Dan Sailer, Director of Public Works

**CONSULTANT:** 

## KIMLEY-HORN AND ASSOCIATES, INC.

Kong By: inter

Its: Vice President

June 3, 2020

Mr. Aaron Monks and Mr. Andrew Focht Town of Castle Rock – Public Works Department 4175 N. Castleton Ct. Castle Rock, CO 80109

### Re: Plum Creek Pkwy – Task Order 2019-06 Construction Phase Services

Dear Mr. Monks and Mr. Focht:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") appreciates the opportunity to submit this proposal to the Town of Castle Rock ("Town" or "Client") to provide construction phase services for the Plum Creek Pkwy Widening and Gilbert Roundabout Improvements project. The following described the work and scope of services.

### **SCOPE OF SERVI CES:**

Kimley-Horn provided the following construction phase services during Phase 1 and Phase 2 construction:

### Task 1 – Construction Phase Services

### Task 1.1 Construction Phase Services

Kimley-Horn will assist the Town by providing construction phase services when requested by the Town. Kimley-Horn may attend and assist with the Pre-Construction Meeting, Weekly Progress Meetings, Site Visits to Observe Construction, Provide Clarifications or Interpretations, Review Change Orders, and Review Shop Drawing Submittals.

Requested site observations will not be exhaustive or extend to every aspect of Contractor's work. Observations will to be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during site visits, Kimley-Horn will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents and inform the Town of the general progress of the work.

Kimley-Horn will not supervise, direct, or have control over Contractor's work, nor shall Kimley-Horn have authority to stop the Work or have responsibility for the means, methods, techniques, equipment choice and usage, schedules, or procedures of construction selected by Contractor, for safety programs incident to Contractor's work, or for any failure of Contractor to comply with any laws. Consultant does not guarantee the performance of any Contractor and has no responsibility for Contractor's failure to perform its work in accordance with the Contract Documents.

We have included up to approximately up to 150 hours (depending on the staff level assigned to each task) to support construction phase services. If additional hours are required, Kimley-Horn will contact the Town for approval prior to performing the additional work.

### Task 1.2 Temporary Traffic Signal Design

As requested by the Town, Kimley-Horn will prepare a temporary traffic signal plan for a temporary span wire signal during the contractor's first phase of construction of the Plum Creek Pkwy and Gilbert St. intersection. This task consists of providing one detour road plan for the intersection, one detour road profile for the intersection, and one traffic signal plan showing relocation of the existing

Mr. Aaron Monks Page 2

Attachment B

traffic signs to the new roadway. Kimley-Horn will attend up to two coordination meetings with the Town and contractor to discuss the temporary signal.

### Task 1.3 Retaining Wall Revised Layout

Kimley-Horn will revise the sidewalk and Retaining Wall 2 alignment from Sta 45+67 to 48+95. The sidewalk will be revised to maintain a 16-foot tree lawn. The profile will provide a 3:1 Slope from the back of curb to the sidewalk and a 2.5:1 slope from the back of easement to the top of the retaining wall. The Retaining Wall 2 Plan and Profile Sheet 72 and Sidewalk Control Plans Sheet 81 and 82 will updated to reflect the revised plan and revised wall quantities will be calculated. The Town will provide topographic survey data for the easement area. Additional survey information will be provided by the Town using the same datum from the design plans. We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives.

### **ADDITIONAL SE RVICES**

Any services not specifically provided for in the above scope will be considered additional services and can be performed upon authorization by the Town.

### FEE AND EX PENSES

Kimley-Horn will perform the services described herein for a not-to-exceed fee of \$34,360.00 per the attached hourly workplan, to be billed in accordance with the terms of our current Town of Castle Rock Service Agreement for On-Call Professional.

### Closure

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

## Sincerely, KIMLEY-HORN AND ASSOCIATES, INC.

By: Curtis D. Rowe, P.E., PTOE Vice President

By:

Christopher Hopkins, P.E. Senior Project Manger

#### Town of Castle Rock Plum Creek Parkway- Task Order 2019-06 Schedule of Fees and Charges Monday, April 6, 2020

_		Kimle	Kimley-Horn and Associates, Inc.											
Task	Description	Senior	Prof. IV	Senior Prof. III	Senior Prof. II	Professional	Analyst III	Analyst II	Analyst I	Senior Admin	Admin	Subconsult.	Т	OTALS
	Rate	e \$	225.00	\$ 210.00	\$ 170.00	\$ 150.00	\$ 130.00	\$ 120.00	\$ 110.00	\$ 115.00	\$ 95.00			
Task 2 F	Phase 1 Construction Phase Services													
2.1	Phase 1 Construction Phase Services			15	75	35			30					155.0
2.2	Temporaray Traffic Signal Construction Plans			4		16			10					30.0
2.4	Retaining Wall Revised Layout			2	2	20			11					35.0
														-
														-
	Task Subtotal Hours	5	-	21	77	71	-	-	51	-	-			220.0
	Task Subtotal Fee	\$	-	\$ 4,410.00	\$ 13,090.00	\$ 10,650.00	\$-	\$-	\$ 5,610.00	\$-	\$-	\$-	\$	33,760.00
	Total KH Labor Fee												\$	33,760.00
	Total Subconsultants Fee											Ī	\$	
	Reimbursable Expenses												\$	600.00
	Total Proposed Fee											1	\$	34,360.00

June 3, 2020

Mr. Aaron Monks and Andrew Focht Town of Castle Rock – Public Works Department 4175 N. Castleton Ct. Castle Rock, CO 80109

### Re: Plum Creek Pkwy – Task Order 2019-05 Additional Phase 1 Services

Dear Mr. Monks and Mr. Focht:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") appreciates the opportunity to submit this proposal to the Town of Castle Rock ("Town" or "Client") to provide additional engineering services for the Plum Creek Pkwy Widening and Gilbert Roundabout Improvements project. The following described the work and scope of services.

### **SCOPE OF SERVI CES:**

During the design of the Phase 1 improvements Kimley-Horn provided the following additional services:

### Task 1 – Additional Phase 1 Services (Gilbert to Eaton)

Kimley-Horn has provided the following additional services in support of the Phase 1 design:

- Following the Town's decision to purchase the Stanbro property in its entirety, Kimley-Horn prepared 3 legal descriptions with exhibits for the Stanbro property and field stake the proposed property line.
- Prepare 3 legal descriptions for IREA easements.
- Revise the Water Quality Pond to take advantage of the full Stanbro property purchased by the Town, thereby eliminating the retaining wall and making the pond more accessible for maintenance.
- Revise the striping plans to include bike lanes from Gilbert to Emerald Drive
- Add RRFB's to roundabouts at Gilbert and Eaton, add conduit for Town's fiber optic communication lines from Gilbert to Eaton, delete previously designed landscaped median and prepare detail signage for the Vista apartments.
- Attend additional property owner meeting and ROW coordination meetings
- Additional meeting and coordination with the Town.
- Prepare street lighting plans and coordinate with IREA for electrical design
- Prepare an additional 333 L.F. of retaining wall to reduce the need for additional ROW acquisitions.
- Delineate offsite drainage basins, update storm frequency from 2-yr to 5-yr event to meet current Town drainage criteria, expand storm sewer design to replace existing storm sewer to reduce pipe flow velocities to meet current Town criteria and modify alignment to keep storm sewer out of existing travel lanes.

### ADDITIONAL SE RVICES

Any services not specifically provided for in the above scope will be considered additional services and can be performed upon authorization by the Town.





Mr. Aaron Monks Page 2

## FEE AND EX PENSES

Kimley-Horn will perform the services described herein for a not-to-exceed fee of \$94,430.00 per the attached hourly workplan, to be billed in accordance with the terms of our current Town of Castle Rock Service Agreement for On-Call Professional.

### Closure

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

By:

### Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Kup

By:

Curtis D. Rowe, P.E., PTOE Vice President

Čhristopher Hopkins, P.E. Senior Project Manger

#### Town of Castle Rock TO 2019-05 Plum Creek Parkway- Phase 1 Additional Services Schedule of Fees and Charges Monday, April 6, 2020

## Attachment B

		Kimle	ey-Horn	and Associate	es, Inc.								
Task	Description	Senio	or Prof. I\	Senior Prof. III	Senior Prof. II	Professional	Analyst III	Analyst II	Analyst I	Senior Admin	Admin	Subconsult.	TOTALS
	Rate	\$	225.00	\$ 210.00	\$ 170.00	\$ 150.00	\$ 130.00	\$ 120.00	\$ 110.00	\$ 115.00	\$ 95.00		
Task 1 /	Additional Phase 1 Services												
1.1	Legal Descriptions for Stanbro Property and IREA			4		10			20	4			38.0
1.2	Revised Plum Creek Water Quality Pond			10	10	20	20	20	30				110.0
1.3	Striping for Bike Lanes to Emerald Drive			2	4	8			16				30.0
1.4	Design for RRFB, Vista Signage, Fiber and Median Revisions			6	4	16	16		12				54.0
1.5	Additional Bid Phase, Pre-Bid Meeting and Repond to RFI's			13		14							27.0
1.6	Property Owner Meeting, and Coordination and Typical Section Revisions			26	6	30			8	4			74.0
1.7	Phase 1 Offsite Drainage Design			10	16	42	50	40	48				206.0
1.8	Streetlighting Design			4		7	12		28				51.0
1.9	Additional Retainining Wall Design			5		28	20		30				83.0
													-
	Task Subtotal Hours		-	80	40	175	118	60	192	8	-		673.0
	Task Subtotal Fee	\$	-	\$ 16,800.00	\$ 6,800.00	\$ 26,250.00	\$ 15,340.00	\$ 7,200.00	\$ 21,120.00	\$ 920.00	\$	\$-	\$ 94,430.00
	Total KH Labor Fee												\$ 94,430.00
	Total Subconsultants Fee												\$ 
	Reimbursable Expenses												
	Total Proposed Fee	Ī										Î	\$ 94,430.00

## Attachment B

# Kimley »Horn

June 1, 2020

Mr. Aaron Monks and Mr. Andrew Focht Town of Castle Rock – Public Works Department 4175 N. Castleton Ct. Castle Rock, CO 80109

### Re: Plum Creek Pkwy – Additional Services Amendment Request

Dear Mr. Monks and Mr. Focht:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") appreciates the opportunity to submit this proposal to the Town of Castle Rock ("Town" or "Client") to provide additional engineering services for the Plum Creek Pkwy Widening and Gilbert Roundabout Improvements project. The following described the work and scope of services.

### **SCOPE OF SERVI CES:**

During the design of the Phase 1 improvements Kimley-Horn provided the following additional services:

### Task 1 – Additional Phase 2 Services (Eaton to Ridge Road)

A project coordination meeting was held on May 1, 2019 to review the project design. It was determined that the original SEACR design and construction of Plum Creek Pkwy did not accommodate offsite drainage flows that enter the road ROW. Additionally, the previously designed improvements could not be constructed within the available ROW. To mitigate this issue, the Town requested that the roadway typical section be redesigned to narrow the center median, provide an attached 8' sidewalk, and add additional retaining walls. To support this re-design Kimley-Horn will obtain additional survey information, conduct a drainage analysis of offsite drainage, and update the construction plans.

Kimley-Horn will provide the following additional services to support the final design of Phase 2:

### Task 1.1 Additional Topographic Survey and Legal Descriptions

Kimley-Horn will subconsult with Aztec Surveying to perform additional topographic survey of the areas outside of existing ROW needed to complete the revised design will the following tasks:

- Provide a topographic survey of the area show in Exhibit A below. We have assumed that the Town will obtain permission to access private properties and provide documentation prior to proceeding with the survey.
- Provide up to two (2) additional days of supplemental topo if additional areas of detail are identified.
- Prepare up to six (6) legal descriptions with exhibits for permanent or temporary easements that may be required for the project.
- Kimley-Horn will update the existing CAD base map to include the additional topographic information obtain in this task, prepare proposed easement linework, and coordinate with Aztec for preparing of the legal descriptions.



Mr. Aaron Monks Page 2

# Kimley »Horn

### EXHIBIT A Topographic Survey Limits



### Task 1.2 QL-B Subsurface Utility Engineering (SUE)

Kimley-Horn will subconsult with Maser Consulting to perform Subsurface Utility Engineering (SUE) professional services for the south half of Plum Creek Pkwy (existing edge of asphalt to existing south ROW line) from 75-feet east Eaton Street to approximately 4,672 feet east. Maser will conduct the following services:

- Quality Level B (QL-B) Designating Service (Horizontal Location of Utilities)
  - Designate within the identified area described above, by marking with paint, the presence and approximate horizontal location of subsurface utilities using geophysical prospecting techniques including, electromagnetic, sonic and acoustical techniques.
  - Mark the utilities on the ground with spray paint to be surveyed by Maser Consulting.
  - Prior and during the SUE investigation, MC will notify K-H of any utilities that do not meet QL-B criteria.
  - Create field sketch drawings and collect photographs of the designated utilities.

### Task 1.3 QL-A Subsurface Utility Engineering (SUE)

Kimley-Horn will subconsult with Maser Consulting to perform QL-A Subsurface Utility Engineering (SUE) professional services. Maser will conduct the following services:

- Quality Level A (QL-A) Locating (Test Hole) Services
  - Excavate up to twenty (20) test holes to expose the utility to be measured.
    Excavations will be performed using specially developed vacuum excavation equipment that is non-destructive to existing facilities.

Attachment B

- Locate and identify the horizontal and vertical position of existing facilities. Positive identification includes the determination or confirmation of facility type, size, depth and material composition.
- Backfill around the exposed facility using the excavated materials compacted in sixinch lifts.
- Pavement cores, vacuum excavation in paved areas and restoration of pavement is not included in this estimate.
- Maser Consulting P.A. will provide a PE stamped and signed PDF of the signed utility plans, CAD files detailing QL-A and QL-B information, and a test hole log/conflict matrix of our field findings. The test hole log/conflict matrix will include the conflict number, latitude and longitude coordinates, grade elevation, utility depth below grade, size, type, ownership, encasement, material, location notes, and surface type notes.

### Task 1.4 Roadway Cross Section Revisions and Updated Construction Plans

After the additional survey information from Task 3.1 has been obtained, Kimley-Horn will complete the Phase 2 roadway design and update the preliminary construction plans to reflect the design modifications requested by the Town. Design changes to be incorporated consist of a narrowed center median, 8' attached sidewalk, interconnect conduit within the corridor, and retaining walls identified in Task 3.4. No additional construction plans will be prepared from those listed in the original scope of services.

### Task 1.5 Additional Retaining Wall Design

The Town has requested that additional retaining walls be designed for the project to reduce the amount of right-of-way or easement required for the improvements. After the additional survey information from Task 3.1 has been obtained, Kimley-Horn will prepare retaining wall plan and profile sheets for up to 2,150 L.F. We have assumed that the proposed walls will consist of MSE walls or the gravity block walls being used in Phase 1, and that the structural design will be done by the contractor. We have not included fees to prepare structural analysis of the walls. We will prepare wall details for reference only of the Town's preferred wall type.

### Task 1.6 Offsite Drainage Analysis and Design

Kimley-Horn will prepare an analysis of the off-site drainage affecting the project consisting of the following tasks:

- Offsite Flow Routing Analysis using the flow values from the SEACR report for runoff from the adjacent properties on the south side of Plum Creek Pkwy, we will analyze the offsite conveyance system to determine the means to manage those flows. This task does not include analysis of the offsite drainage basins and assume flow values from the SEACR report will be used in the analysis.
- Ditchline & Roadside Conveyance Design we will model and design the conveyance system to address offsite flows. It is anticipated that the conveyance design will consist of grouted roadside swales located behind the proposed sidewalk, with culverts (or modification of existing culverts) through fill slope conditions.
- Proposed Drainage Analysis Due to Roadway Changes from Initial Design Based on the May 1, 2019 Phase 2 coordination meeting with the Town modifications are being made to the roadway to reduce the roadway section. The revised design requires the proposed hydrologic and hydraulic calculations to be updated.
- Revised Phase II Drainage Report Following the analysis described in Task 3.5, we will update the Drainage Report to reflect the revised design and the offsite drainage analysis. proposed design will be reflected into the Drainage Report.
- Revised Construction Plans We will update the construction plans to incorporate the design revisions described above and proposed final design.

Mr. Aaron Monks Page 4

 Revised TESC Plans – We will update the grading and erosion control plans to incorporate the revised design and update the previously prepared GESC plans to meet the Town's new TESC standards.

### Task 2 Wetland Investigation

The Town has indicated a potential wetlands area existing within the Phase 2 ROW. Kimley-Horn will subconsult with Pinyon Environmental to perform a Wetland Delineation, Section 404 Permitting and Cultural Resources Survey per the attached Pinyon Scope Attachment A – Scope of Services. We have assumed that if wetlands are present, disturbance will be less that 0.1 acre and that a mitigation plan or compensatory mitigation will not be required. We have assumed that, if required, permission to access private property will be obtained by the Town.

### **Task 3 Additional Meetings and Coordination**

To facilitate Task 3.1 to 3.6, Kimley-Horn will coordinate with the Town and attend up to eight (8) progress meetings or video conferences. We have included up to 30 hours within this task. If additional meeting time is requested this can be performed as an additional service upon written authorization from the Town.

### Task 4 Phase 2 Construction Phase Services

Kimley-Horn will assist the Town by providing construction phase services when requested by the Town. Kimley-Horn may attend and assist with the Pre-Construction Meeting, Weekly Progress Meetings, Site Visits to Observe Construction, Provide Clarifications or Interpretations, Review Change Orders, and Review Shop Drawing Submittals.

Requested site observations will not be exhaustive or extend to every aspect of Contractor's work. Observations will to be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during site visits, Kimley-Horn will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents and inform the Town of the general progress of the work.

Kimley-Horn will not supervise, direct, or have control over Contractor's work, nor shall Kimley-Horn have authority to stop the Work or have responsibility for the means, methods, techniques, equipment choice and usage, schedules, or procedures of construction selected by Contractor, for safety programs incident to Contractor's work, or for any failure of Contractor to comply with any laws. Consultant does not guarantee the performance of any Contractor and has no responsibility for Contractor's failure to perform its work in accordance with the Contract Documents.

We have included up to approximately up to 150 hours (depending on the staff level assigned to each task) to support construction phase services. If additional hours are required, Kimley-Horn will contact the Town for approval prior to performing the additional work.

### Final Plan Deliverables:

Following completion of Tasks 1-2, Kimley-Horn will provide the Town a set of 90% construction plans and specifications for review. We will address up to one round of consolidated, reasonable comments and provide final signed PS&E package.

### **EXCLUSIONS**

The provided scope of services includes, but is not limited to, the following exclusions:

• We understand that all acquisitions services will be done by the Town under separate contract. We have not included fees for acquisition and appraisal services, nor scope to obtain title commitments or reports.

Mr. Aaron Monks Page 5

Attachment B

- We have not included structural design or detailing for retaining wall including soil walls if desired by the Town.
- We have not included scope to design access or utilities to the future Oak Development.
- We have assumed that existing streetlights within Phase 2 will remain in place and have not included scope for streetlighting design for that portion.
- We have not included scope to prepare CDHPE permit applications that will be required for construction.
- We have assumed there will not be a permit fee for the SUE investigations. We have assumed that all test holes will be located outside of traffic and have not included fees for traffic control.

### ADDITIONAL SER VICES

Any services not specifically provided for in the above scope will be considered additional services and can be performed upon authorization by the Town.

### FEE AND EX PENSES

Kimley-Horn will perform the services described herein for a not-to-exceed fee of \$165,945.80 per the attached hourly workplan, to be billed in accordance with the terms of our current Town of Castle Rock Service Agreement for On-Call Professional.

### Closure

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

By:

# Sincerely, KIMLEY-HORN AND ASSOCIATES, INC.

By:

Curtis D. Rowe, P.E., PTOE Vice President

Čhristopher Hopkins, P.E. Senior Project Manger

#### Town of Castle Rock Plum Creek Parkway- Amendment 3 Schedule of Fees and Charges Monday, April 6, 2020

Task      Description      Analyte Market Mark		· · · · · · · · · · · · · · · · · · ·	Kimley											
Table 1 Additional Phase 2 Services    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the programe Survey and Lagal Decomptions (op to 0)    Note of the pr	Task	Description	Senior	Prof. IV	Senior Prof. III	Senior Prof. II	Professional	Analyst III	Analyst II	Analyst I	Senior Admir	Admin	Subconsult.	TOTALS
1.1    Additional Topognaphic Survey and Lagal Descriptions (up to 6)    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12		Rate	\$	225.00	\$ 210.00	\$ 170.00	\$ 150.00	\$ 130.00	\$ 120.00	\$ 110.00	\$ 115.00	\$ 95.00		
1.1    Additional Topognaphic Survey and Lagal Descriptions (up to 6)    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12    12	Task 1 A	dditional Phase 2 Services												
1.3    Oct. A Subarlace Engineering (up to 2) test Holes)    Image Angles and Construction Plans					2		8			8	2		13,960.00	20.0
1.4    Readway Cross Section Revision and Updated Construction Plane    0    8    0    4    10    50    50    50    50      1.5    Additional Relaining Wall Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km or Readway Changes from Initial Design (up to 2, 10km o	1.2	QL-B Subsurface Engineering			2		6			8	2		10,200.00	18.0
1.5    Additional Reaining Wall Design (up to 2.150 LF)    (m)	1.3	QL-A Subsurface Engineering (up to 20 Test Holes)					6			8	2		15,535.00	16.0
1.0    Offsite Dranage Analysis and Design    Image of the Mound Analysis Analysis and Design	1.4	Roadway Cross Section Revisions and Updated Construction Plans			8		24	10		50				92.0
Offsite Flow Routing Analysis    Image Analysis	1.5	Additional Retaining Wall Design (up to 2,150 L.F.)			6		38	10	40	60				154.0
Ditchine & Readedide Conveymence Design    Image Regord	1.6	Offsite Drainage Analysis and Design												-
Proposed Drainage Analysis Due to Roadway Changes From Initial Design    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1		Offsite Flow Routing Analysis				3	8		20					31.0
Revised Phase II Drainage Report    1    4    6    12    30    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1						12	28		30					70.0
Revised Construction Documents for Drainage Plan due to Project Changes    8    16    18    24    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1 <th1< th="">    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1<td></td><td></td><td></td><td></td><td>2</td><td>4</td><td>8</td><td></td><td>25</td><td></td><td></td><td></td><td></td><td>39.0</td></th1<>					2	4	8		25					39.0
Revised TESC Plans      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C      C <thc< th="">      C      <thc< th=""></thc<></thc<>					4	8	12		30					54.0
Image: constraint of the strength of the strengt of the strength of the strength of the strengt					8	16	18		24					66.0
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2.1    Wetlands Delineation	Task 2 V	/etlands Investigation												
2.3    Cultural Resources Survey    Image: Subtool Resources Survey    Image: Survey Survey    Image: Subtool Resources Survey					2		4				4		4,530.60	10.0
Image: Construction Phase Services    Task Subtotal Hours    ·    2    ·    6    ·    ·    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0	2.2	Section 404 Permitting					2						4,629.60	2.0
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Task 3 Additional Meeting and Coordination    Image: Model of the set of the s		Task Subtotal Fee	\$	-	\$ 420.00	\$ -	\$ 900.00	\$ -	s -	s -	\$ 460.00	\$ -	\$ 12,580,80	\$ 14,360.80
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Reimbursable Expenses 56													1 1	\$ 52,275.80
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