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Date Action Taken	8/9/10
Other:	¥ ¥
	10.
Verified by:	90m,18

### WASILLA CITY COUNCIL ACTION MEMORANDUM

AM No. 10-24

TITLE:

CONTRACT AMENDMENT TO HATTENBURG, DILLEY AND LINNELL IN THE AMOUNT OF \$537,913 FOR SOUTH MACK DRIVE ENGINEERING SERVICES THROUGH SEVENTY FIVE PERCENT

DESIGN.

Agenda of: August 9, 2010

Originator: Public Works Director

**Date**: July 27, 2010

Route to:	Department	Signature/Date
X	Director of Public Works	1/27/10
Х	Finance Director	Man Jan 7-29-10
X	Deputy Administrator	Madlel
Х	City Clerk	Franks

<b>REVIEWED</b>	BY MAYOF	R VERNE E.	<b>RUPRIGHT:</b>	$/ \lambda$	-2-	Turane and the same and the sam
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**FISCAL IMPACT**:  $\boxtimes$  yes \$537,913 or  $\square$  no Funds Available  $\boxtimes$  yes  $\square$  no

**Account name/number:** S. Mack Dr/160-4320-432.45-38

**Attachments**: Scope of Services

**SUMMARY STATEMENT:** The original contract was awarded by City Council on March 10, 2009 by AM 09-01 in the amount of \$427,108 in accordance with RFP 0704-0-2009/WM. The initial phase of the contact provides preliminary engineering services for the extension of S. Mack Drive to Knik-Goose Bay Road that included the evaluation of multiple routes. State grants are funding this project in the amount of \$4 million for the design and right-of-way acquisition. \$15 million will be needed for construction.

Amendment No. 1 of the contract was issued by Purchase Order No. 18510 on April 12, 2010 in the amount of \$39,994 for additional geotechnical work in accordance with Mayor's Authority under WMC 5.08.090.B.2. Amendment No. 2 was authorized by City Council on April 27, 2010 for a grade separated crossing of the Alaska Railroad near the Parks Highway in the amount of \$198,705.

Clapp Road has now been determined to be the best route for connection to Knik-Goose Bay Road with the realignment of Fairview Loop to create a new 4-way intersection. This amendment will take the engineering design to 75 percent for the selected route.

Total construction cost is \$15 million for S. Mack Drive Extension to Clapp Road with the re-alignment of Fairview Loop intersection. The grade separated crossing of the Alaska Railroad is estimated at another \$4 million or \$19 million total construction cost.

Engineer design ranges between 9 and 12 percent of construction cost for this type of project. Total engineering cost to date with this contract amendment is \$1,203,720. This is 6 percent of the estimated construction cost which will bring the design to 75 percent which is in line with the industry standard for engineering design services.

**STAFF RECOMMENDATION:** Authorize the Mayor to execute a contract amendment with Hattenburg, Dilley and Linnell in the amount of \$537,913 for South Mack Drive for engineering services through seventy five percent design.



July 28, 2010 File No. 09-006

Archie Giddings, Public Works Director City of Wasilla 290 East Herning Avenue Wasilla, AK 99654-7091

Re:

Amendment 3 - Design through Plans-In-Hand

S. Mack Drive Extension Project

CIVIL ENGINEERING

GEOTECHNICAL ENGINEERING

TRANSPORTATION ENGINEERING

ENVIRONMENTAL SERVICES

**PLANNING** 

SURVEYING

CONSTRUCTION ADMINISTRATION

MATERIAL TESTING Dear Mr. Giddings:

Hattenburg Dilley & Linnell is pleased to present this fee proposal for additional professional services through the plans-in-hand phase of the project. Included in this amendment is surveying for right-of-way mapping, surveying for topographic mapping, geotechnical investigation for the roadway extension, geotechnical reporting and recommendations for the entire project, a utility conflict report, and design through the plans-in-hand (75% complete) submittal. Attached is a proposed amendment to the Statement of Services, which defines the right of way mapping and surveying services and adds the scope of services for the geotechnical investigation, report, and recommendations.

Our estimated fee for the additional services included in this amendment request is \$537,913.00 as shown on the attached fee proposal worksheet.

We look forward to continuing our work with the City on this project. If you have any questions, you can contact me at 746-5230.

Sincerely,

HATTENBURG DILLEY & LINNELL, LLC

David Lundin, P.E.

Project Manager

Attach: Amendment 3 to the Statement of Services (6 pages)
Amendment 3 Fee Proposal Worksheet (8 pages)

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# AMENDMENT 3 to the STATEMENT OF SERVICES

South Mack Drive Extension

## ARTICLE 8 - TASK 2 SURVEYING SERVICES

- 8.12 Right-of-Way Survey. Delete the paragraph and substitute the following:
- **8.12.1 Right-of-Way Boundary Survey**. The Contractor shall perform the following services to Third Order, Class II standards, as specified by the ASPLS Standards of Practice, with an allowable error of closure of 1:5,000 or better.
- **8.12.1.1** Prior to commencement of the survey, the Contractor will review any title documents and mapping in the Contracting Agency's possession which the Contractor considers relevant to the project. The Contractor will be responsible for researching additional relevant documentation from other sources. These documents may include but are not limited to the following:

Bureau of Land Management (BLM) and Department of Natural Resources (DNR) land status plats, BLM township survey plats, Mineral and U.S. Survey plats and field notes, any records of survey, subdivisions, and relevant engineering control surveys, United States Coast and Geodetic Survey (USC&GS)/ National Geodetic Survey (NGS) control diagrams-descriptions, DOT&PF right-of-way records and other easement or boundary documents of record, DOT&PF engineering as-builts, DNR surveys, and aerial photos.

One legible blueline or xerox copy of all of the above referenced reports, plats, notes and other source materials shall be submitted to the Contracting Agency weekly as they are gathered.

- **8.12.1.2** Tie all Public Land Survey System monuments along both sides of the roadway right-of-way corridor. Additional PLSS monuments shall be recovered to allow section breakdown for property boundary determination as directed by the Contracting Agency. Tie adequate centerline monumentation on side streets to determine side street alignment for the affected portions of side streets. A minimum of one side street centerline monument will be tied. Include these corners on the SCD.
- **8.12.1.3** Tie all subdivision and property corners located along the roadway right-of-way and those corners necessary to control impacted areas. This includes corners both inside the right-of-way and those within 50 feet of the right-of-way. The Contractor shall locate sufficient property corners to determine the boundaries of the parent parcels of lands required by the project. Include these corners on the SCD.

**8.12.2** Survey Point Plot. The Contractor shall provide a Survey Point Plot showing all recovered monuments (including those recovered in the Control Surveys) with point numbers for the purpose of point number referencing. The scale shall be adequate to clearly show the relationship of the corners, and shall be tailored to the density of the points. A Printout of Adjusted Coordinates with descriptions of the corners shall accompany the plot along with the ASCII coordinate file with descriptors and AutoCAD drawing file. An ASCII file and hard copy printout listing all descriptors used and an expanded description of their meanings shall accompany all coordinate file submittals. The survey point plot shall be sealed, signed, and certified by the PLS responsible for the services, currently registered in the state of Alaska. The certification shall state the survey standard that was followed in performing the services.

**8.12.3** Additional Topography for Right-of-Way Acquisition. The Contractor shall collect all topographic information that may affect the cost and/or schedule of defined right-of-way acquisitions for the project, such as culverts, land service or access roads, improvements, apparent contaminated soils or waters, fences and any structures. Septic system, well and building locations are examples of pertinent data, usually outside of the acquisition area, that may affect the value of the right-of-way to be acquired. Structures located on impacted parcels and within the specified distance (200 feet) of the right-of-way centerline shall have dimensions and ties to the centerline shown. For properties that have (or had) buried fuel tanks, collect data to the specified distance (200 feet) from centerline. The data collected for this survey shall be incorporated into the topographic AutoCAD drawing files, project coordinate file, and where applicable, the TIN.

**8.12.4 Deliverable Items**. The Contractor shall submit the following items related to the Right-of-Way Survey:

Type of Document	<u>Para</u>	Copies	<u>Originals</u>
Field Books	8.4	0	All
Project Coordinate File	8.6	1	0
Project Descriptor File	8.6	1	0
Survey Point Plot	8.12.2	1	1
Research Documents	8.12.1.1	1	0
GPS Vector Files	8.9.1.5	1	0

#### Add the following:

**8.13.1 Right-of-Way Mapping.** The Contractor shall perform the services necessary to prepare Record of Survey Maps; establish the Existing Right of Way Centerline; and prepare Base Maps, Right of Way Maps, and Parcel Plats, in accordance with the DOT&PF Right of Way Manual and specific instructions from the Contract Manager. Services by the Contractor to modify the PS&E assemblies, as required to accommodate the right of way negotiations, shall be performed as part of the PS & E task.

- **8.13.2 Base Maps** shall be ink on vellum or mylar and shall show the entire project limits and shall include a DOT&PF standard Right-of-Way title sheet, symbol sheet, tract maps, and plan sheets, using Contracting Agency supplied AutoCAD format at the scale and layout specified by the Contracting Agency Project Manager. The plan sheets shall show the following information:
  - a. Existing property boundaries, including all Public Land System survey lines.
  - b. All subdivisions, including name, plat number, and lot and block designations or aliquot part description.
  - c. Existing roadway centerline.
  - d. Existing rights-of-way and easements.
  - e. Improvements.
  - f. Other features required by the Right-of-Way Manual and/or the Contracting Agency.
- **8.13.2.1** When preparing Base Maps, the Contractor shall (a) resolve problems with existing Right-of-Way and boundary locations and (b) analyze preliminary engineering information to determine where additional survey ties are required. The Contractor shall provide a written summary of (any significant) boundary problems encountered in making specific boundary determinations, including rationale for the solution.
- **8.13.2.2 Index Sheets.** The Contractor shall provide Base Map Index Sheets that depict the existing centerline and right-of-way lines, adjacent property lines including rectangular survey lines, and point numbers of all found and calculated points associated with said lines. The drawings shall be on vellum at a scale equal to the scale of the Base Maps.
- **9.13.2.3** The Contractor shall not begin base map preparation without prior specific written authorization from the Contracting Agency.
- **8.13.3 Right-of-Way Maps** shall be ink (or other Contracting Agency approved permanent markings) on mylar and shall include a title sheet, standard right-of-way symbols sheet, tract maps, and plan sheets for the entire project. The plan sheets shall show all the information required for the Base Maps plus the following information:
  - a. Proposed Right-of-Way.
  - b. Easements.
  - c. Parcels.
  - Parcel Information Block.
  - e. Proposed slope limits needed for construction or future maintenance.
  - f. Other features required by the Right-of-Way Manual and /or the Contracting Agency.
- **8.13.3.1** During preparation of Right-of-Way Maps, the Contractor shall:
  - a. Resolve problems with existing right-of-way and boundary locations.
  - b. Analyze preliminary engineering information to determine where additional survey ties are required.
  - c. Examine Title Reports and adjust preliminary boundaries as required.
  - d. Compute the Take and Remain areas of each parcel based on right-of-way requirements supplied by the Contracting Agency. Provide in a notebook format, inverse information for properties affected by acquisition. Include inverses for the larger

parcel, take including easement, net take, and remain areas. Provide a plot of the immediate area showing property lines and associated point numbers.

- **8.13.4 Parcel Plats.** The Contractor shall prepare plats for all parcels to be acquired for this project. Parcel plats shall contain the information required by the DOT&PF Right-of-Way Manual. Parcel Plats shall be prepared during the Right of Way Plan stage of development. The Contractor shall make revisions to Parcel Plats requested by the Contracting Agency. Plats shall be at a scale suitable for legibility and clarity of detail using Contracting Agency supplied AutoCAD format and shall contain information as required by the DOT&PF Right-of-Way Manual and the parcel plat checklist. Final plats are to be filed and approved by the Borough after acquisition of all parcels.
- **8.13.5** Copies. The Contractor shall provide a hard copy of all draft and final maps and parcel plats (with the script files used to generate the hard copy documents) and a copy on CDRom with project coordinate file with descriptors and AutoCad drawing file.
- **8.13.6 Registration**. The Contractor's preparation of Base Maps, Right-of-Way Maps, and Parcel Plats shall be conducted by or under the direct supervision of a Professional Land Surveyor holding current registration in the State of Alaska. All final documents shall be sealed, signed, and certified by the Professional Land Surveyor responsible for the accuracy of the services.
- **8.13.7 Presentation.** The Contractor shall make an oral presentation with visual displays of Right-of-Way requirements to the Contracting Agency's personnel when requested near the beginning of the Contracting Agency's Right-of-Way acquisition activities. The presentation shall provide a project overview and show the proposed project features and impact on adjoining properties. Features shall include side streets, roadways, sidewalks, medians, curb and gutter, slope limits, impacts to driveways, striping, illumination, and signalization. Property information shall include lot boundaries, buildings, driveways, and any other features that will help the Contracting Agency in negotiations with affected property owners, and others to assess project impacts. Visual displays shall be at a scale to clearly show all features without being cluttered. Different colors shall be used to differentiate between project features and adjoining property features.
- **8.13.8 Reviews and Schedule.** The Contractor shall submit drafts of the Base Maps, Right of Way Maps and Parcel Plats, for the Contracting Agency's review, in accordance with the following: Base Maps shall be submitted with the Progress Review Assembly. Right of Way Maps including proposed takes for project construction shall be submitted with the Plans-In-Hand Review Assembly. Right of Way Maps including proposed takes for the project and all required utility relocations shall be submitted within four months of the Plans-In-Hand Review submittal. Current Right of Way Maps shall be submitted with the Pre PS&E Assembly. The Summary of Boundary Problems shall be submitted with the drafts of Base Maps. The Contracting Agency shall have a minimum of four weeks for the return of written comments. The Contractor shall address comments to the satisfaction of the Contracting Agency prior to submitting final documents. Final Right of Way Maps and Parcel Plats shall be submitted at the same time, after all parcels have been acquired.

#### 8.13.9 Deliverable Items.

Type of Document	<u>Para</u>	<b>Copies</b>	<b>Originals</b>
Base Maps	8.13.2		
Draft	8.13.2	2	0
- Disc	8.13.2	1	0
Final	8.13.2	4	1
- Disc	8.13.2	1	0
Summary of Boundary Problems	8.13.2.1	1	0
Index Sheets	8.13.2.2	1	1
Right-of-Way Maps	8.13.3		
Draft	8.13.3	2	0
- Disc	8.13.3	1	0
Final	8.13.3	4	1
- Disc	8.13.3	1	0
Parcel Plats	8.13.4		
Draft	8.13.4	2	0
- Disc	8.13.4	1	0
Final	8.13.4	4	1
- Disc	8.13.4	1	0

## <u>ARTICLE 13 – TASK 7</u> GEOTECHNICAL INVESTIGATIONS

13.2 Geotechnical Investigation for Railroad and Lucille Creek. Renumber this paragraph (added by Amendment 1) as 13.2.1.

Add the following:

- **13.2.2 Geotechnical Investigation for Roadway.** The contractor will perform a geotechnical investigation for the roadway extension. This investigation will involve literature research, site visits, and subsurface test holes. It is anticipated that nineteen (19) test holes will be advanced to depths ranging from 15 to 35 feet deep. One-inch diameter PVC pipe will be installed in select borings in order to monitor groundwater elevations.
- 13.3 Geotechnical Reporting. Delete this paragraph (added by Amendment 1) and substitute the following paragraphs.
  - **13.3.1 Geotechnical Recommendations.** Following field investigations, the Contractor shall provide recommendations to evaluate engineering criteria. After review and/or as design proceeds, modifications to the Geotechnical Recommendations may be required. The Contractor shall implement required changes in a timely manner. The Geotechnical

Recommendations shall not be included, appended or otherwise identified in the Geotechnical Report. Geotechnical Recommendations become final concurrently with final design.

13.3.2 Geotechnical Report. The Contractor shall provide a Geotechnical Report that presents data collected during the geotechnical investigation. Information shall include at least the following: project location map, description of the project scope, presentation of the field investigations, station to station descriptions of the earth materials encountered during the field investigation, laboratory test results, and plan and profile sheets with test holes or pits shown in plan and profile views. The report shall be submitted to the Contracting Agency in both draft and final forms. The draft shall be made available concurrently with the distribution of the PIH Review. The final report shall be completed concurrently with the PS&E.

FIRM: Hattenburg Dilley & Linnell PROJECT TITLE: South Mack Extension DATE: 7/28/2010 Amendment 3 Road design through PIH **TOTAL NEGOTIATED FIXED FEE:** \$0 FIRM'S TOTAL LABOR INDIRECT FEE \*SUB-**PRICE PLUS** ARTICLE TASK **EXPENSES TOTAL COST** (or FP) COST DISTRIBUTION **PRICE** CONTRACTS SUBS \$0 \$0 B7 \$0 \$0 \$0 \$0 \$0 В8 2 \$108,110 \$0 \$550 \$108,660 \$108,660 \$121,822 \$230,482 B9 3 \$0 \$0 \$0 \$0 \$0 \$0 \$0 B10 4 \$0 \$0 \$0 \$0 \$0 \$0 \$0 5 \$0 \$0 \$0 \$0 \$0 \$0 \$0 B11 \$25,470 \$0 \$25,470 B12 6 \$24,920 \$0 \$550 \$25,470 \$1,045 \$31,555 \$57,680 7 \$30,510 \$0 \$31,555 \$26,125 B13 8 \$0 \$199,360 \$199,360 \$24,921 \$224,281 B14 \$199,360 \$0 B15 9 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \*Subcontractors for negotiated professional or technical services, products, etc. (Commodity items available to the general public at market prices, equipment use, and unit priced items are generally included in estimate as expenses.) **ESTIMATED** INDIRECT FIRM'S TOTAL \*SUB-PRICE PLUS **LABOR EXPENSES TOTAL COST** FEE PRICE **TOTALS** (or FP) COST CONTRACTS SUBS

\$362,900

\$0

\$2,145

FOR FIRM:

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\$537,913

\$172,868

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<sup>\*</sup> Labor Rates shall be direct labor (base pay) only if Method of Payment is CPFF; otherwise, Labor Rates shall be total rates (i.e. base pay + benefits + overhead + profit.)

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TASK NO:	6	TASK DESCRIP	TION:	Utilities						· · · · · · · · · · · · · · · · · · ·		DATE:	7/28/2010
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<sup>\*</sup> Labor Rates shall be direct labor (base pay) only if Method of Payment is CPFF; otherwise, Labor Rates shall be total rates (i.e. base pay + benefits + overhead + profit.)

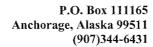
FIRM:	Hattenburg I	Dilley & Linnell			PROJECT TITLE: South Mack Extension - Amendment 3 Design through PIH								
TASK NO:	7	TASK DESCRIPT	TION:	Geotechnica	I Investigation						····	DATE:	7/28/2010
GROUP:		METHOD OF PAYMENT:		FP	FPPE	T&E 🗸	CPFF		PREPA	RED BY:	David Lundin		
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	<u> </u>					<u> </u>				<b> </b>			
								-					
TOTAL LAI	BOR HOURS		4	16	30	84	144	0	16	16	0	0	0
<u> </u>	ATES (\$/HR)		\$165.00	\$145.00	\$165.00	\$105.00	\$85.00	\$80.00	\$95.00	\$70.00		<u> </u>	
LABOR CC			\$660,00	\$2,320.00	\$4,950.00	\$8,820.00	\$12,240.00	\$0.00	\$1,520,00	\$1,120,00	\$0.00	\$0.00	\$0.00
			EXPENSES		0.,000.00	1 00,020.00	0.12,2.0.00					1	<b></b>
SUB- TASK NO.		ITEM(S)			QUANTITY	UNIT PRICE	TOTAL PRICE	COMMENTS: Final portion of geotechnical field investigation for proposed alignment. 19 borings water advanced to depths of 15 to 35 feet between STA 36					100
13.1	Field Supplies	3			1	\$500.00	\$500.00	<b>6</b> 1	-				100
13,1	Truck Rental				6	\$75.00	\$450.00	83			_	hnical rep	1.25
		·········					\$0.00	<b>1</b> €1		-	_	ıs a tree re	moval
							\$0.00	subcontr	actor inclu	ded in pro	posal.		
			//////				\$0.00						
			***************************************				\$0.00	FIRM'S TOTA	AL COST OF	LABOR (or Fi	xed Price):		\$30,510
			/	Markup at 10%	6		\$95.00	IF CPFF, TO	TAL INDIREC	T COST @		0.00%	\$0
					TOTAL EXPENSES: \$1,045 FIRM'S TOTAL EXPENSES						\$1,045		
SUB-CONTRACTORS: Firm Initials and Price Per Tas					sk			FIRM'S TOTAL COST (no Subcontracts or Fee)					\$31,555
FIRM: Discovery Drilling						Subtotal	10% Markup						
AMOUNT:		\$23,750				\$23,750	\$2,375	TOTAL SUB	CONTRACTO	R PRICES:			\$26,125

<sup>\*</sup> Labor Rates shall be direct labor (base pay) only if Method of Payment is CPFF; otherwise, Labor Rates shall be total rates (i.e. base pay + benefits + overhead + profit.)

FIRM:	Hattenburg I	Dilley & Linnell			PROJECT TITLE: South Mack Extension - Amendment 3 Design through PIH								
TASK NO:	8	TASK DESCRIPTION:		Plans, Specif	ications, and f	Estimate						DATE:	7/28/2010
GROUP:		METHOD OF PAYMENT:		FP	FPPE	T&E ✓	CPFF		PREPA	RED BY:	David Lundin		
SUB-						LABOR HOL	JRS PER JOB	CLASSIFICA	TION				
TASK NO.	SUB-	TASK DESCRIPTION	Principal	Proj Mgr/ Civil Eng	Senior Staff Eng	Staff Engineer	Drafter	Admin. Asst.	Envmtl Manager				Sheets
B14.1	General Mgm	t & Coordination	16	80				24	***************************************				***************************************
B14.1	Title/Legend/	Layout		3	3		6						3
B14.1	Survey Contr	ol		2	4		2	}					2
B14.1	Typical Section			3	36	ļ	24						3
	Estimate of C			2	4		8						1
	Summary Sh			3	8	12	24						3
	Detail Sheets			12	24	24	48			<b></b>	ļ		6
		Sediment Control	l ,	4	32	ļ	32	8	40				8
		ile - Mack, Fairview, Old Fair	view	120	240	90	240						15
	Approach Pro			4	8	16 32	32	<del> </del>					2
	Signing & Stri Retaining Wa			<u>4</u> 8	16 48	32	64 48	<u> </u>	<u> </u>				8
	Illumination &			12	12		8		ļ	·		<u> </u>	6
	Traffic Contro				added by ame	I ndment					<u> </u>		
	ROW Maps	) ; (at)		15	15	T	15						15
	Specifications			16	16	40	1	24					1
	Estimate & Q			16	24	40	40	<u> </u>					
	Cross Section			2	8		16	-				1	
	Progress Rev			4	8	8	8						
		Review (75%)		4	8	8	8						
	Peer Review	<u> </u>	16				İ T						
B14.3	Pre-PS&E Re	view		To be	added by ame	ndment							
B14.4	Final PS&E			To be	added by ame	ndment							
	·												<u> </u>
	OR HOURS		32	314	514	270	623	56	40	0	0	0	76
	ATES (\$/HR)		\$165.00	\$150.00	\$110.00	\$95.00	\$90.00	\$70.00	\$120.00	\$0.00			
LABOR CO	STS (\$)		\$5,280	\$47,100	\$56,540	\$25,650	\$56,070	\$3,920	\$4,800	\$0	\$0	\$0	
			EXPENSES		·			COMMEN	TS: Includ	es design	of Alternat	ive B1 to Pl	ans-In-
SUB-TASK NO.		ITEM(S)			QUANTITY	UNIT PRICE	TOTAL PRICE	<b>4</b> 1		_		ımendment	100
	Reproductions	s. misc.				·	\$0.00						
		<u> </u>					\$0.00						
							\$0.00						
						<u> </u>	\$0.00						
							~						
							\$0.00	L				GOSTOWN GROUP OF THE PARTY OF T	
								FIRM'S TOTA			ed Price):		\$199,360
Markup at 10%								IF CPFF, TO				0.00%	\$0
					TOTAL	EXPENSES:	\$0	FIRM'S TOTA	L EXPENSES				\$0
SUB-CONTRACTORS: Firm Initials and Price Per Task					k			FIRM'S TOTA	L COST (no S	Subcontracts	or Fee)		\$199,360
FIRM:	FIRM: EDC					Subtotal	10% Markup						
AMOUNT:	UNT: \$22,655					\$22,655	\$2,266	TOTAL SUBC	ONTRACTOR	R PRICES:			\$24,921
New Law Learning Committee Committee Committee Committee Committee Committee Committee Committee Committee Com	and the same of th		<del></del>	THE PROPERTY OF THE PROPERTY O		Lancard Company			and the second second second				AND DESCRIPTION OF THE PROPERTY OF THE PROPERT

<sup>\*</sup> Labor Rates shall be direct labor (base pay) only if Method of Payment is CPFF; otherwise, Labor Rates shall be total rates (i.e. base pay + benefits + overhead + profit.)

FIRM:	McClintock	Land Associates.		<u> </u>	PROJE		South Mack				PROJECT TITLE: South Mack Road								
TASK NO:	2	TASK DESCRIP	TION:	*	Control and	Right of Way	Survey & M	apping				DATE:	7/28/2010	1					
GROUP:		METHOD OF PAYMENT:		FP	FPPE	T&E ✓	CPFF		PREP/	RED BY:	Bill McClintoo	:k		1					
SUB-					**************************************			CLASSIFICA"				· · · · · · · · · · · · · · · · · · ·				ld Crew Wo	orksheet		
TASK NO.		-TASK DESCRIPTION	MLA Principal PLS	MLA Project Manager	PLS Survey Party Chief ST		Survey Tech ST	Survey Tech OT	PLS Land Surveyor	Staff Office Tech ST	e Photogramm etrist ST	MLA Principal Planner	Clerical / Expeditr ST	Crew Days		PLS Survey Party Chief OT	Survey Crew ST	Survey Crew OT	
		JND RESEARCH			0.0	0.0	0.0	0.0							0.0	0.0	0.0	0.0	
	Obtain Docu	iments ples to ADOT		2.0	0.0	0.0	0.0	0.0	32,0	<u></u>			<del> </del>	I	0,0 0.0	0.0 0.0	0.0 0.0	0.0	
	Horizontal C			2.0	15.0	17.5	15.0	15.0				-	THE STREET STREET	2.5	15.0	17.5	15.0	0.0 15.0	
	Vertical Con		<del> </del>	2.0	18.0	21.0	18.0	18.0			<del></del>			3.0	18.0	21.0	18.0	18.0	
	Monument F		<del> </del>	2.0	30.0	35.0	30.0	30.0		<del> </del>		<del>                                     </del>		5.0	30.0	35.0	30.0	30.0	
5	Data Reduc	tion/QC		2.0	0.0	0.0	0.0	0.0	16.0		<b>-</b>		<del></del>	1	0.0	0.0	0.0	0.0	
6	ROW Resea	arch		2.0	0.0	0,0	0.0	0.0	80.0					1	0.0	0.0	0.0	0.0	
		DW/Parcel Plats/Review		40.0	0.0	0.0	0.0	0,0	370.0					I	0.0	0.0	0.0	0.0	
	BOR HOURS		0.0	54.0	69.0	73.5	63.0	63.0	498.0	0,0	0.0	0.0	0.0	10.5	63.0	73.5	63.0	63.0	
	ATES (\$/HR	)	\$0.00	\$130.00	\$130.00	\$130.00	\$84,00	\$84.00	\$116.00	\$19.00		\$42.00							
LABOR CO	ISTS (\$)		\$0	\$7,020	\$8,970	\$9,555	\$5,292	\$5,292	\$57,768	\$0	\$0	\$0	\$0	į					
L							COMMEN	TS:				:	ľ						
SUB- TASK NO.		ITEM(S)			QUANTITY	UNIT PRICE	TOTAL PRICE	See seperate	scope docur	nent									
11	Deep rod mo	onuments			3	\$450	\$1,350						1:						
2	Title Reports					\$15,000	\$15,000						13						
3	Mileage 100	0 miles @ 0.50 per mile				\$500	\$500						[3						
							\$0						1:	ľ					
							\$0						(:	Į.					
							\$0							l					
	_						\$0			•			[:	l					
							\$0						13						
							\$0	<u> </u>	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		ł					
								FIRM'S TOTA			ixed Price):		\$93,897						
	\$0 IF CPFF, TOTAL INDIRECT COST @ 0.00%										\$0								
:::::::::				1:::::::	TOTAL	EXPENSES:	\$15,850	FIRM'S TOTA	L EXPENSE	S	,,,,,,		\$16,850						
		SUB-CONTRACTORS: Fire	m Initials and	Price Per Ta	sk			FIRM'S TOTA	L COST (no				\$110,747						
													\$0						
FIRM:								TOTAL SUBC		W-1-1			\$0						
AMOUNT:								TOTAL COST	+ FIXED FE	E INCL. EXP	ENSE & SUBS		\$110,747						





July 27, 2010

Quote #194

Mr. John Thornley Hattenburg, Dilley & Linnell, LLC 3335 Arctic Blvd., Suite 100 Anchorage, AK 99503

Discovery Drilling Inc. is pleased to submit this cost estimate for geotechnical drilling near Mac Road in Wasilla. We plan to drill this project with a truck and nodwell mounted CME 75 drill rig and a 2 man crew.

We understand the scope of work to be as follows;

- Mobilize a truck and nodwell mounted CME 75 auger drill with 2 man crew to Wasilla.
- Drill, sample and backfill 9 borings to 15 feet in depth with the nodwell mounted drill.
- Drill, sample and backfill 10 borings, 15 to 35 feet (total 205) in depth with the truck mounted drill.
- Sample at 2.5 foot intervals to 10 feet in depth and then every 5 feet to bottom.
- Install 100 feet of 1" PVC in selected borings and backfill with cuttings.
- Install flush monuments on 5 borings in the street.

Discovery Drilling assumes the following regarding this work

- Any ROW permits and or traffic control required Drill sites are truck accessible.
- Utilities will be located and marked as necessary.
- No wage requirements apply to this work.

Estimated Project Total	\$23,750
Asphalt Patch – Estimated 9 holes @ \$45 Ea.	\$405
Greatland Tree Service 2 man crew and equipment - 3406 Ft @ \$1.65/Ft	\$5,620
Flush vaults – 5 @ \$75 Ea.	\$375
1" PVC – estimate 100 feet @ \$1/ft	\$ 100
Drill, sample and backfill truck mounted borings – estimate 2.5 days @ \$3200/day	\$8,000
Drill, sample and backfill track mounted borings – estimate 2 day @ \$3200/day	\$6,400
Mobilization/Demobilization Truck and nodwell mounted auger rig, equipment and crew	\$2,850

We look forward to working with you on this project, please call with any questions you may have. Sincerely,

Kyle Brown Discovery Drilling Inc.

FIRM:	EDC, Inc.		··········		PROJE	PROJECT TITLE: South Mack Extension - Amendment 3 Design through PIH									
TASK NO:	8	TASK DES	SCRIPTION:	Plans, Speci	fications, and	Estimate					- COLORADO DE	DATE:	7/27/2009		
GROUP:		METHOD OF	PAYMENT:	FP _	FPPE	T&E ✓	CPFF		PREPA	RED BY:	John Pepe	<u> </u>	The state of the s		
SUB-				Market and the second		LABOR HOU	IRS PER JOE	CLASSIFICA	TION	Water 1, 1981					
TASK NO.	SUB-TASK [	DESCRIPTION	Principal/ Manager	Project Manager	Senior Engineer	Staff Engineer	Drafter								
35%	Meetings		1		1					The same of the sa					
	Plans		8		20		20								
	Specifications	5	11		8										
<u> </u>	Estimate		11		6										
	Calculations		2		8	1									
75%	Meetings		2		2										
	Plans		12		55		50								
	Specifications	3	1		4										
	Estimate		1		1										
	Calculations		1		2										
						<b></b>									
						ļ		<u> </u>							
								<u> </u>							
									3						
TOTAL LA	BOR HOURS		30	0	107	0	70	0	0	0	0	0	0		
* LABOR R	ATES (\$/HR)		\$135.00		\$115.00	\$100.00	\$90.00								
LABOR CO	STS (\$)		\$4,050.00	\$0.00	\$12,305.00	\$0.00	\$6,300.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
			EXPENSES					COMMEN	тς.	парішто мертонії, — с.					
SUB- TASK NO.		ITEN	1(S)		QUANTITY	UNIT PRICE	TOTAL PRICE		, 0.				20 20 20 20 20 20 20 20 20 20 20 20 20 2		
							\$0.00						500 600 600 600		
							\$0.00						1.3 22 22		
							\$0.00						2		
							\$0.00	28400000 2440000000000000000000000000000					000 000 000 000 000		
		······································	ABPUNTO				\$0.00								
							\$0.00	FIRM'S TOTA	L COST OF	ABOR (or Fi	xed Price):	(m	\$22,655		
							\$0.00	IF CPFF, TO	TAL INDIREC	T COST @		0.00%	\$0		
					TOTAL	EXPENSES:	\$0	\$0 FIRM'S TOTAL EXPENSES							
	SUB-CONTRACTORS: Firm Initials and Price							FIRM'S TOTA	L COST (no	Subcontracts	or Fee)		\$22,655		
FIRM:															
AMOUNT:								TOTAL SUBC	ONTRACTO	R PRICES:			\$0		

<sup>\*</sup> Labor Rates shall be direct labor (base pay) only if Method of Payment is CPFF; otherwise, Labor Rates shall be total rates (i.e. base pay + benefits + overhead + profit.)