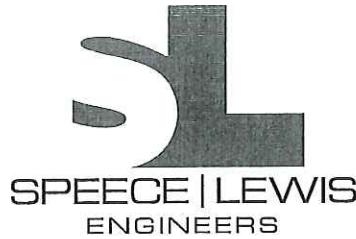


Agenda Item # 21.e.iii
Date 5-8-2019



COPY

2019 MAY -1 PM 12:03

RECEIVED

906 South 26th Street | Lincoln, NE 68510 | Phone: 402.483.5466 | Fax: 402.483.1729 | www.speecelewis.com

PROPOSAL - WORK AUTHORIZATION

CLIENT: Dodge County, Nebraska Project No.: ER-9
Address: 435 N Park, Room 204 Project Name: Hooper South Project
Fremont NE 68025
Property Owner: _____ Project Location: Dodge County, Nebraska
Address: _____ Telephone No.: (402) 720-1181
Client Contact: Scott Huppert
dodgecoroads@hotmail.com

DESCRIPTION OF WORK

This PROPOSAL-WORK AUTHORIZATION constitutes the express authority given to SPEECE LEWIS ENGINEERS, INC., by the above-named CLIENT to do the following work:

The scope of services for this project involves engineering design services required to produce final construction plans and specifications for the following:

Project description: Design of sheet pile to retain fill at the abutments at structure no. C002713920. Replace crushed rock surfacing north and south of C002713920. Approximately 0.4 miles of crushed rock surfacing needs to be replaced. In addition, due to the flood event, scour at bridge C002713910 requires replacement of channel embankment and rip-rap in the channel adjacent to the bridge.

The project will include the following: survey, right-of-way survey, roadway design, right-of-way design plans, and opinion of probable cost.

Construction Engineering will also be included and compensation will be at the hourly rates shown below.

Work tentatively scheduled to begin as soon as possible.

COMPENSATION

It is specifically agreed that the parties to this contract are Dodge County, Nebraska, herein called CLIENT and SPEECE LEWIS ENGINEERS, INC. and that by signing this document CLIENT agrees to pay for all work authorized. CLIENT further agrees to pay SPEECE LEWIS ENGINEERS, INC. for the above-described work, on the basis of compensation listed below:

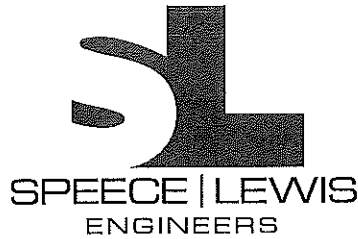
Preliminary / Final Engineering	\$59,113.75	Lump Sum – See attached worksheet for hours and cost
<u>Construction Engineering</u>		
Project Manager	\$190.00	
Engineer	\$115.00	
EIT	\$80.00	
Technician	\$65.00	
Survey (2-man crew)	\$135.00	

Mileage will be billed at the current Federal mileage rate of \$.58 per mile. Testing by Terracon, meals and hotels will be billed at cost.

Payment due upon receipt of invoice by CLIENT

CLIENT SPEECE LEWIS ENGINEERS, INC.
By _____ By Tim Garner
Authorized Representative
Date _____, 2019 Date April 26, 2019

Please sign and return one copy to: SPEECE LEWIS ENGINEERS, INC.



906 South 26th Street | Lincoln, NE 68510 | Phone: 402.483.5466 | Fax: 402.483.1722 | www.speecelewis.com

PROPOSAL - WORK AUTHORIZATION

CLIENT: <u>Dodge County, Nebraska</u>	Project No.: <u>ER-9</u>
Address: <u>435 N Park, Room 204</u>	Project Name: <u>Hooper South Project</u>
<u>Fremont NE 68025</u>	
Property Owner: _____	Project Location: <u>Dodge County, Nebraska</u>
Address: _____	
Client Contact: <u>Scott Huppert</u>	Telephone No.: <u>(402) 720-1181</u>
<u>dodgecoroads@hotmail.com</u>	

DESCRIPTION OF WORK

This PROPOSAL-WORK AUTHORIZATION constitutes the express authority given to SPEECE LEWIS ENGINEERS, INC., by the above-named CLIENT to do the following work:

The scope of services for this project involves engineering design services required to produce final construction plans and specifications for the following:

Project description: Design of sheet pile to retain fill at the abutments at structure no. C002713920. Replace crushed rock surfacing north and south of C002713920. Approximately 0.4 miles of crushed rock surfacing needs to be replaced. In addition, due to the flood event, scour at bridge C002713910 requires replacement of channel embankment and rip-rap in the channel adjacent to the bridge.

The project will include the following: survey, right-of-way survey, roadway design, right-of-way design plans, and opinion of probable cost.

Construction Engineering will also be included and compensation will be at the hourly rates shown below.

Work tentatively scheduled to begin as soon as possible.

COMPENSATION

It is specifically agreed that the parties to this contract are Dodge County, Nebraska, herein called CLIENT and SPEECE LEWIS ENGINEERS, INC. and that by signing this document CLIENT agrees to pay for all work authorized. CLIENT further agrees to pay SPEECE LEWIS ENGINEERS, INC. for the above-described work, on the basis of compensation listed below:

Preliminary / Final Engineering	\$59,113.75	Lump Sum – See attached worksheet for hours and cost
<u>Construction Engineering</u>		
Project Manager	\$190.00	
Engineer	\$115.00	
EIT	\$80.00	
Technician	\$65.00	
Survey (2-man crew)	\$135.00	

Mileage will be billed at the current Federal mileage rate of \$.58 per mile. Testing by Terracon, meals and hotels will be billed at cost.

Payment due upon receipt of invoice by CLIENT

CLIENT	SPEECE LEWIS ENGINEERS, INC.
By _____	By <u>Tim Farmer</u>
Authorized Representative	
Date _____, 2019	Date <u>April 26</u> , 2019

Please sign and return one copy to: SPEECE LEWIS ENGINEERS, INC.

Staffing Plan (Lump Sum)

Preliminary Engineering

Project Name: HOOPER SOUTH
 Consultant: SPEECE LEWIS ENGINEERS, INC.
 Consultant PM: Chris Lane
 LPA RC: Scott Huppert
 NDOT PC: TBD?
 Date: April 17, 2019

Project Number: ER-9
 Control Number: XXXX



Billing Rates Entered Directly, or

Calculated, based on:

Overhead: 158.55%
 Profit Rate: 13.00%
 FCM (if applicable):
 *Salary Escalation Factor: 3.0%
 *Escalation Period: 2 yrs
 *(default is 3% and 1 yr period)

#	Code	Classification	#	Code	Classification
1	PR	Principal	7	SDES	Senior Designer/Technician
2	RLS	Registered Land Surveyor	8	DES	Designer/Technician
3	ENV	Environmental Scientist	9	ADM	Administrative
4	PM	Project Manager	10	SPC	Survey Party Chief
5	SENG	Senior Engineer	11	SUR	Surveyor I
6	ENG	Engineer	12	UND	Undefined

Effective Multiplier For New Staff = 2.96

SRC BILLING RATE TABLE per employee

Template: T-12B-D1 Construction (rev 6-05-2017) SRC

Employee Name	Job Title & Certifications	Current Actual Hourly Rate	SRC Billing Rate	% Assigned
Principal				
Chris Lane	Vice President	\$65.00	\$193.00	50%
Tim Farmer	President	\$65.00	\$193.00	50%
			Weighted Average Rate:	\$193.00
Registered Land Surveyor				
			Weighted Average Rate:	
Environmental Scientist				
Kara Rosburg	Environmental Scientist	\$20.00	\$60.00	30%
Chris Hedgecock	Environmental Scientist	\$27.00	\$81.00	70%
			Weighted Average Rate:	\$74.70
Project Manager				
Chris Lane	Project Manager	\$65.00	\$193.00	50%
Tim Farmer	Project Manager	\$65.00	\$193.00	50%
			Weighted Average Rate:	\$193.00

Consultant's Estimate of Hours

Preliminary Engineering

Project Name: HOOPER SOUTH
 Consultant: SPEECE LEWIS ENGINEER
 Consultant PM: Chris Lane
 NDOT PC: TBD?
 Date: April 17, 2019

Project Number: ER-9
 Control Number: XXXX



TASKS	PERSONNEL CLASSIFICATIONS													Total
	PR	RLS	ENV	PM	SENG	ENG	SDES	DES	ADM	SPC	SUR	UND		
Project Management	50													50
1 Project Management	40													40
2 Project Description / Purpose and Need														
3 Quality Assurance / Quality Control	10													10
Meetings	16				16									32
1 Owner Meetings	12				12									24
2 Plan-In-Hand Meeting														
3 LPA/NDOT Coordination Meetings														
4 Meetings with Utilities	4				4									8
5 Public Involvement Planning Meetings														
6 Key Stakeholder Outreach														
7 City Council/County Board														
8 Open Houses														
9 One-on-One, Small Group Meetings														
Survey							48			30	40			118
1 Preliminary Field Survey										20	20			40
2 Digital Terrain Model								20			10			30
3 Base Map Preparation								20						20
4 Horizontal and Vertical Control											4	4		8
5 Section / Property Corners											2	2		4
6 Existing Utilities											4	4		8
7 Note Reduction / Preliminary Plotting								8						8
8 PIH Staking the Right of Way														
9 Negotiations Staking the Right of Way														
Preliminary Roadway Design (PIH/30%)	1				26	33	51							111
1 Complete Form DR-76														
2 Data Collection and Review														
3 Roadway Horizontal Alignment					1	2	2							5
4 Roadway Vertical Alignment					1	1	2							4
5 Template Roadway Cross sections					1	4	6							11
6 Limits of Construction						2	6							8
7 Earthwork					1	4	4							9
8 Roadway Geometric Design						2	2							4
9 Roadway and Driveway Culverts							2							2
10 Construction and Removal					1	1	1							3
11 Utility Coordination/Verification					2									2
12 Construction Phasing/Detour Route/Temporary Roads														
13 Erosion Control						2	4							6
14 Quantities/Estimates						8	8							16
15 Typical Sections					1	1	2							4
16 2W/2A Sheets							4							4
17 Guardrail														
18 Floodplain Identification					4									4
19 Floodplain Permitting					4									4
20 Plan-in Hand Meeting/Report					6	6	8							20
21 Working Day Calculations	1				4									5
22 Pavement Determination														
Functional Plans (60%)	4				6	4	28							42
1 Functional plans					4		16							20
2 Quantity estimates	4				2	4	4							14
3 Sixty percent plan submittal							8							8
Draft PS&E Submittal (90%) plan review	6				4	2	16							28
1 Incorporate review comments						2	8							10
2 Opinion of probable cost	4													4
3 Draft PS&E package submittal	2				4		8							14

TASKS	PERSONNEL CLASSIFICATIONS													Total
	PR	RLS	ENV	PM	SENG	ENG	SDES	DES	ADM	SPC	SUR	UND		
Final PS&E Submittal/Blue Line Corrections	2				2		16						20	
1 Final PS&E Submittal							4						4	
2 Address comments or questions					2								2	
3 Electronic CADD files							4						4	
4 Temporary erosion control							2						2	
5 Printing							4						4	
6 SWPPP							2						2	
7 QA/QC	2												2	
8 Letting Task														
Utilities														
1 Existing Right-of-Way Base														
2 Proposed Right-of-Way														
3 Right-of-Way Plan Sheets														
4 Title Research														
5 Permit to occupy right of way														
Right-of-Way Design					22	14				8			44	
1 Existing Right-of-Way Base					2	2							4	
2 Proposed Right-of-Way					8	4							12	
3 Right-of-Way Plan Sheets					8	8							16	
4 Title Research										8			8	
5 Permit to occupy right of way					4								4	
Right of Way Cost Estimate														
1 Right of Way Cost Estimate														
Bridge Design Services					24		24						48	
1 General Project management, Field Inspections and Meetings														
2 Bridge Design Data Sheets and Bridge Type, Size and Location Plans (TS&L) for Non-Hydraulic Structures														
3 Bridge Design Data Sheets and Bridge Type, Size and Location Plans (TS&L) for Hydraulic Structures														
4 Final Bridge Design					24		24						48	
5 Final Bridge Plans														
6 Load Rating Services														
7 Review Shop Drawings, Provide Construction Consultation and Girder Shim Calculations														
8 Construction Consultation														
9 Girder Shim Calculations														
Environmental Coordination	17				18								35	
1 Review of NEPA documents and commitments	8												8	
2 NEPA exhibits	2												2	
3 Preliminary Waterway Permit Data Sheet														
4 Wetlands Impacts	1				4								5	
5 Permits	2												2	
5a Floodplain Permit	2												2	
5b Army Corps of Engineers 404 permit	1												1	
5c NPDES, SWPPP & NOI	1				2								3	
5d Activity Checklists														
5e NEPA Coordination					8								8	
5f Wetland Impact calculations					2								2	
5g Nebraska Department of Environmental Quality					2								2	
5h City/County Health Department Permits														
Hydrology and Hydraulic Design					12		4						16	
1 Hydraulic Survey														
2 Hydrology														
3 Hydraulic Analysis					12		4							
4 Bridge Design Data Sheet, TS&L for Hydraulic Structures														
Misc. Items														
1														
2														
3														
Total Days	12				16.25	6.625	23.38			4.75	5		68	
Total Hours	96				130	53	187			38	40		544.0	

Direct Expenses

Preliminary Engineering

Project Name: HOOPER SOUTH
Consultant: SPEECE LEWIS ENGINEERS, INC.
Consultant PM: Chris Lane
LPA RC: Scott Huppert
NDOT PC: TBD?
Date: April 17, 2019

Project Number: ER-9
Control Number: xxxx



Subconsultants:			Amount
Subtotal			
Printing and Reproduction:	Qty	Unit Cost	Amount
Full Size Prints	50	\$5.00	\$250.00
11x17 Copies/prints	100	\$0.35	\$35.00
Subtotal			\$285.00
Mileage/Travel:	Qty	Unit Cost	Amount
Mileage	500	\$0.580	\$290.00
Subtotal			\$290.00
Lodging/Meals:	Qty	Unit Cost	Amount
25 Hotel nights (price includes taxes as allowed by FAR)		\$120.00	
39 meals		\$55.00	
Subtotal			
Other Miscellaneous Costs:	Qty	Unit Cost	Amount
Title Research		\$200.00	
Subtotal			
TOTAL DIRECT EXPENSES			\$575.00

Project Cost & Breakdown

Preliminary Engineering

Project Name: HOOPER SOUTH
 Consultant: SPEECE LEWIS ENGINEERS, INC.
 Consultant PM: Chris Lane
 NDOT PC: TBD?
 Date: April 17, 2019

Project Number: ER-9
 Control Number: XXXX



LABOR COSTS			
Classification	Hours	Weighted Rate	Amount
Principal	96.00	\$193.00	\$18,528.00
Registered Land Suveyor			
Environmental Scientist		\$74.70	
Project Manager		\$193.00	
Senior Engineer	130.00	\$119.00	\$15,470.00
Engineer	53.00	\$85.25	\$4,518.25
Senior Designer/Technician	187.00	\$77.50	\$14,492.50
Designer/Technician		\$77.00	
Administrative		\$62.00	
Survey Party Chief	38.00	\$75.00	\$2,850.00
Surveyor I	40.00	\$67.00	\$2,680.00
Undefined			
	544.00	Subtotal	\$58,538.75

DIRECT EXPENSES	Amount
Subconsultants:	
Printing And Reproduction:	\$285.00
Mileage/Travel:	\$290.00
Lodging/Meals:	
Other Miscellaneous Costs:	
Subtotal	\$575.00

TOTAL PROJECT COSTS	Amount
Labor Costs	\$58,538.75
Direct Expenses	\$575.00
TOTAL COST	\$59,113.75