

**FIRST AMENDMENT
TO
CIVIL ENGINEERING DESIGN SERVICES
FOR THE
N. MAIN AND SOLEDAD (PECAN TO NAVARRO)
PROJECT NUMBER: 23-01598**

This first amendment to the Civil Engineering Design Services Agreement for the N. Main and Soledad (Pecan to Navarro) Project authorized by Ordinance No. 2017-10-05-0742, is entered into by and between the City of San Antonio ("City"), a home rule municipal corporation, and Lockwood, Andrews & Newman, Inc. ("Consultant"), referred to collectively herein as the "Parties".

WHEREAS, in October 2017 through Ordinance No. 2017-10-05-0742, the City authorized the negotiation and execution of 48 professional services contracts for civil engineering services; and

WHEREAS, City and Consultant entered into the Civil Engineering Design Services Agreement for the N. Main and Soledad (Pecan to Navarro) Project in an amount not to exceed \$1,376,253.40 ("Original Agreement"); and

WHEREAS, it is necessary to amend the Original Agreement to add additional engineering services to complete the design of the N. Main and Soledad (Pecan to Navarro) Project; and

WHEREAS, the cost for the aforementioned work will increase the contract capacity by \$157,694.00;

NOW THEREFORE, in consideration of the terms, covenants, agreements and demises herein contained each to the other given, the sufficiency and receipt of which are hereby acknowledged, the Original Agreement is amended as follows:

1. **Exhibit A - Scope Of Services/Schedule of Project Services/Fee Summary.**
The not-to-exceed contract amount set out in Exhibit A of the Original Agreement is hereby increased by ONE HUNDRED FIFTY-SEVEN THOUSAND SIX HUNDRED NINETY-FOUR AND 00/100 DOLLARS (\$157,694.00) for a total not-to-exceed contract amount of ONE MILLION FIVE HUNDRED THIRTY-THREE THOUSAND NINE HUNDRED FORTY-SEVEN AND 40/100 DOLLARS (\$1,533,947.40).

2. **Exhibit A - Scope Of Services/Schedule of Project Services/Fee Summary.**
The Fee Summary and Timeline for Professional Services attached hereto as Attachment 1 is hereby incorporated into and made a part of Exhibit A of the Original Agreement.

Except as amended hereby, all other provisions of the Agreement are hereby retained in their entirety and remain unchanged.

EXECUTED and **AGREED** to as of the dates indicated below.

City of San Antonio

Lockwood, Andrews & Newman, Inc.

(Signature)
Razi Hosseini
Director
Public Works Department
Date:

DocuSigned by:
Robert D. Austin, P.E.
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(Signature)
Printed Name: Robert D. Austin, P.E.
Title: Robert D. Austin
Date: 3/30/2020

Approved as to Form:

Assistant City Attorney

ATTACHMENT A FEE SUMMARY AND TIMELINE FOR PROFESSIONAL SERVICES

**City of San Antonio - Capital Improvements Management Services Department
FEE SUMMARY AND TIMELINE FOR PROFESSIONAL SERVICES**

Project: N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598
 Prime Consultant: Lockwood, Andrews & Newnam, Inc.
 Subconsultants: Nine - See list below
 Proposal Date: 3/19/2020
 Prepared By: Bob Austin, PE
 Scope of Work: Reconstruct Main and Soledad between Pecan and Navarro. Includes pedestrian amenities and continuation of the 2012 Bond Program project.

ACTIVITY	TIMELINE (CALENDAR DAYS)	FEE	Amendment No. 1
20% Design Phase	105	\$151,820.00	
1. Lockwood, Andrews & Newnam, Inc. (LAN)		\$12,665.00	
2. AECOM, Inc. (AECOM)		\$0.00	
3. Bain Medina Bain, Inc. (BMB)		\$116,130.00	
4. Bender, Inc. DBA Bender Wells Clark Design (BWCD)		\$0.00	
5. KCI Technologies, Inc. (KCI)		\$0.00	
6. Maestas & Associates, Inc. (M&A)		\$9,970.00	
7. Reyes & Hamilton Engineers (R&H)		\$300.00	
8. Raba Kistner, Inc. (RKI)		\$12,755.00	
9. Ximenes & Associates, Inc. (X&A)		\$0.00	
10. Young Professional Resources (YPR)		\$0.00	
40% Design Phase	105	\$184,198.00	
1. Lockwood, Andrews & Newnam, Inc. (LAN)		\$118,330.00	
2. AECOM, Inc. (AECOM)		\$0.00	
3. Bain Medina Bain, Inc. (BMB)		\$0.00	
4. Bender, Inc. DBA Bender Wells Clark Design (BWCD)		\$0.00	
5. KCI Technologies, Inc. (KCI)		\$0.00	
6. Maestas & Associates, Inc. (M&A)		\$9,955.00	
7. Reyes & Hamilton Engineers (R&H)		\$32,148.00	
8. Raba Kistner, Inc. (RKI)		\$0.00	
9. Ximenes & Associates, Inc. (X&A)		\$7,530.00	
10. Young Professional Resources (YPR)		\$16,335.00	
70% Design Phase	105	\$247,739.00	\$64,495.00
1. LAN		\$152,100.00	\$26,695.00
2. AECOM		\$0.00	
3. BMB		\$5,390.00	\$37,800.00
4. BWCD		\$13,860.00	
5. KCI		\$0.00	
6. M&A		\$36,940.00	
7. R&H		\$19,694.00	
8. RKI		\$0.00	
9. X&A		\$9,780.00	
10. YPR		\$9,975.00	
95% Design Phase	42	\$135,978.00	\$24,432.00
1. LAN		\$74,475.00	\$18,085.00
2. AECOM		\$0.00	
3. BMB		\$0.00	\$7,670.00
4. BWCD		\$21,340.00	
5. KCI		\$0.00	
6. M&A		\$13,235.00	\$697.00
7. R&H		\$15,768.00	
8. RKI		\$0.00	
9. X&A		\$4,455.00	
10. YPR		\$6,705.00	

**City of San Antonio - Capital Improvements Management Services Department
FEE SUMMARY AND TIMELINE FOR PROFESSIONAL SERVICES**

Project: N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598
 Prime Consultant: [Lockwood, Andrews & Newnam, Inc.](#)
 Subconsultants: Nine - See list below
 Proposal Date: 3/19/2020
 Prepared By: Bob Austin, PE
 Scope of Work: Reconstruct Main and Soledad between Pecan and Navarro. Includes pedestrian amenities and continuation of the 2012 Bond Program project.

ACTIVITY	TIMELINE (CALENDAR DAYS)	FEE	Amendment No. 1
Bid Phase	35	\$28,360.00	
1. LAN		\$25,940.00	
2. AECOM		\$0.00	
3. BMB		\$0.00	
4. BWCD		\$2,420.00	
5. KCI		\$0.00	
6. M&A		\$0.00	
7. R&H		\$0.00	
8. RKI		\$0.00	
9. X&A		\$0.00	
10. YPR		\$0.00	
Construction Phase & Project Close-Out	365	\$89,528.00	
1. LAN		\$86,670.00	
2. AECOM		\$0.00	
3. BMB		\$0.00	
4. BWCD		\$13,750.00	
5. KCI		\$0.00	
6. M&A		\$1,970.00	
7. R&H		\$4,688.00	
8. RKI		\$0.00	
9. X&A		\$3,450.00	
10. YPR		\$0.00	
BASE FEE TOTAL	652	\$837,623.00	\$88,927.00
Additional Services and Allowances			
1. Additional Service LAN		\$86,880.00	\$46,140.00
2. Additional Service AECOM		\$50,901.00	
3. Additional Service BMB		\$22,740.00	\$9,820.00
4. Additional Service BWCD		\$0.00	
5. Additional Service KCI		\$154,109.40	
6. Additional Service M&A		\$0.00	
7. Additional Service R&H		\$0.00	
8. Additional Service RKI		\$0.00	\$12,807.00
9. Additional Service X&A		\$0.00	
10. Additional Service YPR		\$0.00	
11. Allowance 1			
12. Allowance 2			
ADDITIONAL SERVICES TOTAL		\$313,630.40	\$68,767.00
GRAND TOTAL		\$1,151,253.40	\$157,694.00

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Neenan, Inc.**
 Subconsultant: **N/A**
 Proposal Date: **3/15/2020**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager	Sr. Engineer	Sr. Project Engineer	Project Engineer	Design Engineer	ET II	ET I	Sr. Eng. Tech	Eng. Tech	Admin.	TASK HOURS	TASK / PHASE FEE
	\$250.00	\$225.00	\$180.00	\$170.00	\$130.00	\$115.00	\$105.00	\$125.00	\$85.00	\$70.00		
20% Design											72	\$ 12,865.00
01- Project Management and General Items	17	2	20	11	0	2	18	0	0	1		
01.010 DSR Preparation / Scoping Meeting	4		4				8				18	\$2,050.00
01.040 Design Review Meeting	3			8							13	\$2,050.00
01.050 Prepare Meeting Minutes	1			1			2			1	5	\$700.00
01.050.010 Prepare 20% Utility Coordination Meeting Minutes	1											
01.050.010 Prepare Design Schedule	2			4							6	\$1,350.00
01.070 GAO/C Reviews	2		4				4				10	\$1,050.00
01.080 Team Coordination (Call/Meetings)												
01.080.010 Host Bi-weekly Design Team Meetings (Have one meeting and then continue routinely once survey files arrive) - Assume 2 meetings	5	2	4			2	2				15	\$2,900.00
07- Utility Coordination / Management											0	\$1,520.00
07.020 Utility Coordination (Section 5.0 of the UCD)			0								0	\$1,520.00
40% Design	62	80	48	52	0	74	238	195	102	3	661	\$ 118,330.00
01- Project Management and General Items												
01.020 General Sheets, Index, Summaries / Quantities, Notes												
01.030.010 Title Sheet		1						7			8	\$1,100.00
01.030.011 Index of Sheets		3							18		18	\$2,150.00
01.030.012 General Notes - Place on SFT & add to as needed	1			8					9		13	\$1,940.00
01.030.014 Quantity take for Removals (for estimate)		1					2		4		7	\$815.00
01.030.015 Quantity take for Retaining Wall (for estimate)		1					2		4		7	\$815.00
01.030.016 Quantity take for Earthwork (for estimate)		1					8		4		9	\$1,050.00
01.030.017 Quantity take for Traffic Control (for estimate)		2						12			14	\$1,950.00
01.040 Design Review Meeting												
01.040.011 40% Design Review Meeting	3		8				3				13	\$2,415.00
01.050 Prepare Meeting Minutes												
01.050.011 Prepare 40% Design Review Meeting Minutes & Response to Comment Resolution Spreadsheet	2	4					4			1	11	\$1,900.00
01.070 GAO/C Reviews												
01.070.012 Revise 40% deliverables, complete GDM checklist, prepare GAO/C Cert. & upload all to PrimeLink	4	8	8				4				24	\$4,740.00
01.080 Team Coordination (Call/Meetings)												
01.080.011 Host Bi-Weekly Design Team Meeting - Assume 5 meetings	15	6	12			6	6				45	\$9,700.00
04- Roadway Design												
04.010 Typical Sections - Existing and Proposed - 8 sheets	1	3					18	18			39	\$4,800.00
04.020 Horizontal Roadway Alignments & Hor. Alignment Data Sheets	1	1				8	8				18	\$2,250.00
04.030 MicroStation Open Roads Model	2						32	32			66	\$7,850.00
04.040 Roadway Profiles	2	2				12	12				26	\$3,580.00
04.040 Street Cross Sections												
04.050 Develop Street Cross Sections (8 X-Sections / SHI - 1"=20')		2	2			24	24				52	\$6,310.00
04.050.010 Geometrics												\$0.00
04.050.010 Update Open Roads Model & ref. file for N. Main			8			24					32	\$4,250.00
04.050.011 Update Open Roads Model & ref. file for Soledad			8			24					32	\$4,140.00
04.050.012 Incorporate Proposed Storm Drains & Proposed Utilities into Open Roads Model			8	4				16	16		44	\$5,720.00
04.050.015 Plan and Profile sheets	4	18					48		48		116	\$14,250.00
04.070 Driveway Summary Sheet		2									42	\$6,450.00

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **N/A**
 Proposal Date: **3/19/2020**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager	Sr. Engineer	Sr. Project Engineer	Project Engineer	Design Engineer	ET III	ET I	Sr. Eng. Tech	Eng. Tech.	Admin.	TASK HOURS	TASK / PHASE FEE
	\$250.00	\$225.00	\$190.00	\$170.00	\$130.00	\$115.00	\$105.00	\$125.00	\$95.00	\$70.00		
07. Utility Coordination / Management												
07.020. Utility Coordination Section 5.0 of the DGM	2										2	
07.020.010. Develop Utility & Removal Layouts @ 1"=20' (exist & p	4	8		16			32	32			82	\$12,880.00
08. Traffic Control Plan												
08.010. Construction Phasing Typical Sections	1	2		5				28			36	\$5,600.00
08.020. Construction Phasing & Sequence of Work (Notes & Narrative)	2	3		14					0		27	\$4,315.00
09. Other Plans												
09.050. Print 5 Sets of Plans, Bids, Make CDs, Deliver	4	0					0	0		2	30	\$4,700.00
11. Cost Estimating												
11.010. Prepare Cost Estimate				4				0			12	\$1,800.00
15. Communications												
15.010. Scoping Public Meeting (Complete Streets) and Exhibits	2										2	\$500.00
15.020. Public Meeting and Exhibits	4										4	\$1,000.00
15.030. Stakeholder Meetings	8										8	\$2,000.00
70% Design - Block is unchanged from original contract & shown FYI	37	98	00	105	0	228	108	282	79	14	1122	\$
70% Design Supplemental Work Authorization No. 1	4	27.5	0	0	0	56	0	55	0	0	192.5	\$26,655.00
01. Project Management and General Items												
01.030. General Sheets - Index, Summaries / Quantities, Notes												
01.030.010. Title Sheet		1						2			3	\$475.00
01.030.011. Index of Sheets		1						12			13	\$1,725.00
01.030.012. Project Layout		2					16				18	\$2,130.00
01.030.013. General Notes		2		8					5		14	\$2,150.00
01.030.014. Summary of Escalway & Removal Quantities		1					16		16		33	\$3,425.00
01.030.015. Summary of Earthwork Quantities		1					4		4		9	\$1,025.00
01.030.017. Summary of Traffic Control Plan Quantities		2						20			22	\$2,950.00
01.040. Design Review Meeting												
01.040.012. 70% Design Review Meeting	4	4					3				11	\$2,215.00
01.050. Prepare Meeting Minutes												
01.050.012. Responses on Comment Resolution Spreadsheet	2	4					4			1	11	\$1,820.00
01.060. Project Schedule (Includes Construction)												
01.070. QA/QC Reviews												
Review 70% deliverables, perform constructability review, complete DGM checklist, prepare QA/QC Certification & upload all to PrimeLink	4	8	8	4			4				28	\$5,420.00
01.080. Team Coordination (Call s/Meetings)												
Host Bi-weekly Design Team Meetings - Assume 6 meetings.	15	6	12			6	6			12	57	\$9,540.00

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **NA**
 Proposal Date: **3/19/2020**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager	Sr. Engineer	Sr. Project Engineer	Project Engineer	Design Engineer	ET III	ET II	Sr. Eng. Tech	Eng. Tech.	Admin.	TASK HOURS	TASK/FEE
	\$250.00	\$225.00	\$180.00	\$170.00	\$130.00	\$115.00	\$108.00	\$125.00	\$98.00	\$70.00		
04. Roadway Design												
04.010 Typical Sections - Existing and Proposed	1	2						18	18		36	\$4,380.00
04.011 Modifications to Row Typical Section due to Bicycle Lane												
Changes 6' to 5' width and include 2' buffer on each side of bike lane (N. Main Ave); Bulk Out Terminal; Sidewalk's Starting												
Maximization and Horiz Alignment Changes (Soledad Only)												
N. Main Ave - 0 typicals		2					16				18	\$2,250.00
Soledad St - 3 typicals		1					6				7	\$915.00
Side Streets - 6 typicals		1					10				11	\$1,375.00
04.020 Horizontal Roadway Alignments & Hor. Alignment Data Sheets		1						4			5	\$945.00
04.030 Roadway Profiles		2					12	12			25	\$3,020.00
04.040 Street Cross Sections			15				16	16			45	\$6,550.00
4.041 Revise/Develop Cross Sections for Full Length of Giraud & Savings												
Giraud St		0.5							3		3.5	\$487.50
Savings St		0.5							3		3.5	\$487.50
04.050 Geometrics												
04.051.015 Plan and Profile Sheets	4	3				40	40				82	\$11,600.00
04.051.015 Update P&P Sheets due to Modifications to Row												
Typical Section (Bicycle Lane Changes), Parking, Sidewalk Widths, Bulk Out Terminal, Driveway												
Geometrics (Soledad St) Alignment Updates												
Drainage Change in Roof Top Crown on Soledad St and no grate inlet use for Soledad St & N. Main												
N. Main Ave - 4 sheets	1	4				7.5		7.5			20	\$2,950.00
Soledad St - 4 sheets	1	4				7.5		7.5			20	\$2,950.00
04.054.016 Develop new P&P sheets for Giraud and Savings due to require 2' Storm Main construction												
Giraud St		2				8		6			16	\$2,120.00
Savings St		2				8		6			16	\$2,120.00
04.050.018 Roadway Details Sheets		2						8	8		18	\$2,250.00
04.070 Driveway Summary Sheet												
04.071 Revise Driveway Plan View Geometrics per New City Detail												
Revise Driveway Geometrics on Soledad Street		0.5				2					2.5	\$342.50
Revise Driveway Geometrics on N. Main Street		0.5				2					2.5	\$342.50
04.072 Re-analysis of Driveway Profile Compliance due to Sidewalk Width Updates (Wider Pavement (bicycle buffer spaces))												
N. Main Ave - 10 driveways		4				15					19	\$2,625.00
Soledad St - 12 driveways		4				16					20	\$2,740.00
05. Drainage Design												
05. Pavement Design and Geotech Engineering												

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01698**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **NA**
 Proposal Date: **01/19/2023**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager \$250.00	Sr. Engineer \$225.00	Sr. Project Engineer \$180.00	Project Engineer \$170.00	Design Engineer \$130.00	EIT II \$115.00	EIT I \$105.00	Sr. Eng. Tech \$125.00	Eng. Tech \$95.00	Admin. \$70.00	TASK HOURS	TASK/FEE
70% Design (Continued)												
07. Utility Coordination / Management	2										2	
07.020.011 Develop Utility & Removal Layouts @ 1"=20' (exist & p	2	4		24		40			40		110	\$13,850.00
08. Traffic Control Plan												
08.010 Construction Phasing Typical Sections	1	2		5				20			31	\$4,550.00
08.010 Construction Phasing & Sequence of Work (Notes & Narrative)	2	2		4							8	\$1,510.00
08.020 Conceptual Construction Phasing Layouts												
08.020.010 TCP Advance Warning Signs		2		4				40			48	\$6,150.00
08.020.012 TCP Layouts - N. Main & Soledad Phase 1		8		24				54			86	\$13,000.00
08.020.015 TCP Layouts - N. Main & Soledad Phase 2		5		24				54			83	\$13,550.00
08.020.021 TCP Horizontal Alignment Data Sheets		1						8			9	\$1,225.00
08.020.022 Detours		1		2					15		18	\$1,850.00
08. Other Plans												
08.010 Intersection Layouts (5 on N. Main, 8 on Soledad) (1"=20')		4	8			40	40				92	\$11,220.00
08.020 Bridge Layouts												\$0.00
08.030 Traffic Signal Plans												\$0.00
08.040 Illumination Plans												
08.040.011 Illumination Layout Sheets		4	4			24		18			48	\$6,420.00
08.040.012 Electrical details		1	2			10					13	\$1,755.00
08.040.013 Summary of Illumination Quantities		1	2			10					13	\$2,135.00
08.040.016 Illumination Specifications		1	2			10					13	\$1,755.00
08.040.017 Illumination OPCC		1	8			8					17	\$2,655.00
08.040.018 Voltage Drop Calculations		1	2			12					17	\$2,365.00
08.040.019 Coordinate electrical needs with Architect				4							4	\$750.00
08.040.020 Coordinate electrical service and metering CPDs				8							8	\$1,510.00
08.050 Print 5 Sets of Plans, Bind, Make CDs, Deliver		2						8		1	11	\$1,520.00
08.050 Details and Specifications												
08.050.010 Special Details								4			4	
08.050.020 List of Governing Specifications		4									4	
08.050.030 Special Provisions		4						4			8	
08.050.040 Special Specifications												
10. Environmental and Regulatory Coordination												\$0.00
10.010 General Environmental Coordination												\$0.00
10.020 WFA#												\$0.00
10.030 TDCOT Permits												\$0.00
10.040 EIR Permits												\$0.00
11. Environmental and Regulatory Coordination												\$0.00
11. Cost Estimating												
11.010 Prepare Cost Estimate				3				6			9	\$1,250.00
15. Communications												
15.020 3 Public Meetings - Exhibits (Project Layout Schematics)	2	2						52			56	\$4,950.00
15.030 Stakeholder Meetings												

City of San Antonio - Capital Improvements Management Services Department
 Project Work Plan and Fee Proposal Breakdown
 Revised 02/11/23

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **N/A**
 Proposal Date: **01/19/2020**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager	Sr. Engineer	Sr. Project Engineer	Project Engineer	Design Engineer	EIT III	EIT II	Sr. Eng. Tech.	Eng. Tech.	Admin.	TASK HOURS	TASK FEE
	\$250.00	\$225.00	\$180.00	\$170.00	\$130.00	\$115.00	\$105.00	\$125.00	\$95.00	\$70.00		
95% Design	21	60	32	58	0	77	32	118	80	5	531	\$ 74,475.00
95% Design Supplemental Work Authorization No. 1	0	15	0	0	0	27	0	57	0	0	57	\$16,065.00
01. Project Management and General Items												
01.030 General Sheets - Index, Summaries / Quantities, Notes												
01.030.010 Title Sheet		1						1			2	\$355.00
01.030.011 Index of Sheets		1						8			9	\$1,225.00
01.030.012 Project Layout		1					2				3	\$455.00
01.030.013 General Notes	1	1		2					2		6	\$1,055.00
01.030.014 Summary of Roadway & Removal Quantities		1					12		12		25	\$2,825.00
01.030.015 Summary of Earthwork Quantities		1					2		2		5	\$625.00
01.030.017 Summary of Traffic Control Plan Quantities		2						12	2		14	\$1,850.00
01.040 Design Review Meeting												
01.040.013 95% Design Review Meeting	3	5					3				12	\$2,415.00
01.050 Prepare Meeting Minutes												
01.050.013 Responses on Comment Resolution Spreadsheet	2	3					3			1	9	\$1,550.00
01.060 Project Schedule (Includes Construction)												
01.060.011 Prepare Construction Schedule				32							32	\$5,440.00
01.070 QA/QC Reviews												
01.070.014 Review 95% deliverables, use/complete DGM checklist, prepare QA/QC Certification & upload all to PinnerLink	4	8	4				4				20	\$3,950.00
01.080 Team Coordination (Cal submeetings)												
01.080.012 Host Bi-Weekly Design Team Meeting - Assume 2 meetings	5	2	4			2	2			4	19	\$3,180.00
02. Right-of-Way Surveying and Mapping												
03. Topographic Surveying / Base Mapping												
04. Roadway Design												
04.010 Typical Sections - Existing and Proposed												
04.020 Horizontal Roadway Alignments & Hor. Alignment Data Sheets												\$0.00
04.030 Roadway Profiles												
04.040 Street Cross Sections			4			16	16				36	\$4,260.00
4.042 Update cross sections for full length of Giraud & Savings		0.5						1			1.5	\$207.50
Giraud St		0.5						1			1.5	\$207.50
Savings St												
04.050 Geometrics												
04.050.015 Plan and Profile Sheets	2	8						24	24		58	\$7,550.00
04.050.018 Roadway Details Sheets		1					8	8			13	\$1,675.00
04.050.017 Update Giraud & Savings P&P Shts												
Giraud St		1				3		3			7	\$945.00
Savings St		1				3		3			7	\$945.00
4.051 Modify DoRA Ramp Slot to add Modified Curb Ramps	1	2				4		14			21	\$2,910.00
04.010 Driveway Summary Sheet												\$0.00

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **N/A**
 Proposal Date: **3/19/2020**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager	Sr. Engineer	Sr. Project Engineer	Project Engineer	Design Engineer	ET III	ET II	Sr. Eng. Tech.	Eng. Tech.	Admin.	TASK HOURS	TASK/FEE
	\$250.00	\$225.00	\$180.00	\$170.00	\$130.00	\$115.00	\$105.00	\$125.00	\$95.00	\$70.00		
85% Design (Continued)												
07. Utility Coordination / Management												
07.020 Utility Coordination (Section 5.0 of the DGM)												
07.020.012 Develop Utility & Removal Layouts @ 1"=20' (exist & prop.)		2		4			16		16		38	\$4,330.00
08. Traffic Control Plan												
08.010 Construction Phasing Typical Sections		2		4				12			18	\$2,610.00
08.020 Construction Phasing & Sequence of Work (Notes & Narrative)		2		2				8			12	\$1,750.00
08.030 Conceptual Construction Phasing Layouts			1	2					16		19	\$2,015.00
08.030.011 TCP Advance Warning Signs												
08.030.012 TCP Layouts - N. Main & Soledad Phase 1	1	2		4				20			27	\$3,850.00
08.030.015 TCP Layouts - N. Main & Soledad Phase 2	1	2		4				20			27	\$3,850.00
08.030.021 TCP Horizontal Alignment Data Sheets		1						2			3	\$475.00
08.030.022 Detours		1		2					8		11	\$1,325.00
09. Other Plans												
09.010 Intersection Layouts (5 on N. Main, 6 on Soledad) (1"=20')	1	4	5			16	16				42	\$5,620.00
09.040 Illumination Plans												
09.040.011 Illumination Layout Sheets		2	2			24					28	\$3,580.00
09.040.012 Electrical Details		1	2			4					7	\$1,025.00
09.040.013 Summary of Illumination Quantities		1	2			6					9	\$1,255.00
09.040.014 Illumination Specifications		1	1			3					5	\$750.00
09.040.015 Illumination OPCC		1	2			2					5	\$625.00
09.040.016 Voltage Drop Calculations		1	1			4					6	\$875.00
09.040.017 Coordinate electrical needs with Architect			2								2	\$350.00
09.040.018 Coordinate electrical service and metering UPS			1								1	\$150.00
09.050 Pavement Marking and Signing Plan												
09.051 Pmnt. Mkr. on Main from E of Soledad to N. Main for Lane Shift		2				7		7			16	\$2,130.00
Pavement Markings at the W. Pecan & N. Main Intersection due to SAWG work.												
09.052		2				7		7			16	\$2,130.00
Pavement Markings at the W. Pecan & Soledad Intersection due to SAWG work.												
09.053		2				7		7			16	\$2,130.00
Pavement Markings on Savings from Soledad to N. Main due to Storm Sewer Construction & Street Rehabilitation.												
09.054		1						8			9	\$1,225.00
Pavement Markings on Gravel from Soledad to N. Main due to Storm Sewer Construction & Street Rehabilitation.												
09.055		1						8			9	\$1,225.00
09.055 Pmnt. Mkr. on Navarro from Seymour to the existing X-walk on Navarro St. northwest of the Soledad/Navarro intersection.												
09.055		2						12			14	\$1,950.00
11. Cost Estimating												
11.010 Prepare Cost Estimate	1			2				5			8	\$1,215.00

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **N/A**
 Proposal Date: **3/19/2020**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project Manager \$250.00	Sr. Engineer \$225.00	Sr. Project Engineer \$180.00	Project Engineer \$170.00	Design Engineer \$130.00	ET III \$115.00	ET II \$105.00	Sr. Eng. Tech. \$95.00	Eng. Tech. \$85.00	Admin. \$70.00	TASK HOURS	TASK/FEE
Bid Phase	21	14	18	26	27	0	8	16	8	37	176	\$ 26,340.00
12. Bid Phase												
12.010. Submit 100% Plans With All Joint-Bid Utilities	2	2	2	4			0		0		28	\$9,610.00
12.020. Final Project Specifications Book	8		8	8						4	28	\$6,160.00
12.030. Finalize Constructability Issues			4	2	4			4			14	\$2,120.00
12.040. Review Utility Conflict Report and Address Pending Items			4		4					4	12	\$1,860.00
12.050. 100% Bid Phase Review Meeting												\$0.00
12.050.010. Attend 100% Bid Phase Review Meeting	3	3			3					3	12	\$2,025.00
12.050.011. Prepare Bid Phase Review Meeting Minutes & Responses on Comment Resolution Spreadsheet		1			2					2	5	\$625.00
12.050.012. Review bid phase deliverables, update the EGM checklist, prepare QA/QC Certification & upload all to PrimeLink					2					2	4	\$400.00
12.050.013. Host Weekly Design Team Meeting - Assume 1 meeting	2	2			2					2	0	\$1,950.00
12.060. Assist the City in Preparing Advertising Documents		2								2	4	\$550.00
12.070. Distribute Plans and Specifications to Contractors and Plan Rooms				2						2	4	\$450.00
12.080. Attend Pre-Bid Meeting	2			2						2	6	\$900.00
12.090. Respond to Contractor Questions	2	2			2						6	\$1,210.00
12.100. Prepare and Distribute an Addendum if needed		2		4	0			0		12	34	\$4,010.00
12.110. Prepare Bid Tabulation and Letter of Recommendation	2			4				4		2	12	\$1,820.00
Construction Phase	4	0	0	242	0	0	0	104	0	80	433	\$ 80,360.00
13. Construction Management												
13.030. Attend Citizen Meeting(s) and Prepare Exhibits Prior to Start of Construction	4			4				4			12	\$2,180.00
13.040. Prepare and Review Monthly Play App				40						3	51	\$9,310.00
13.050. Review/Negotiate Change Orders				40						12	52	\$7,640.00
13.060. Review Shop Drawings				32						48	80	\$9,800.00
13.070. Respond to RFIs				32						32	32	\$5,440.00
13.080. Project Site Visits and Reports (Minimum Two Per Month)				48				54			112	\$16,780.00
13.090. 13.08 when possible. Conduct on Progress Meetings & Meeting Minutes. Coincide with				32				32		18	80	\$10,700.00
13.100. Final Walkthrough and Punchlist review				4				4		2	10	\$1,320.00
13.120. Finalize TDLR Inspection				2							2	\$340.00
Project Closeout	1	2	0	2	0	0	16	18	0	0	37	\$ 4,720.00
14. Project Closeout												
14.010. Prepare Record Drawings	1	2					16	18			35	\$4,385.00
14.020. Final Warranty Inspection				2							2	\$340.00
TOTAL BASE FEE WITH HOUR BREAKDOWN	146	264	174	485	27	379	528	745	269	142	3149	\$ 436,515.00

City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01698**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **NA**
 Proposal Date: **03/29/2023**
 Prepared By: **Bob Austin, PE**

TASK CODE AND DESCRIPTION	Sr. Project	Sr.	Sr. Project	Project	Design	ET II	ET I	Sr.	Eng. Tech.	Admin.	TASK	TASK / PHASE
	Manager	Engineer	Engineer	Engineer	Engineer	II	I	Eng. Tech.	Eng. Tech.	Hours		
	\$250.00	\$225.00	\$180.00	\$170.00	\$130.00	\$115.00	\$108.00	\$125.00	\$85.00	\$70.00	HOURS	FEE
Additional Services	16	8	0	144	0	0	288	184	16	0	864	\$ 85,880.00
Additional Services	16	8	0	144	0	0	288	184	16	0	864	\$ 85,880.00
List additional services as scoped. Examples include Geotech and SUE												
20% Design												
04.050 Geometric Layout												
04.050.010 Develop Geometric Layout (Roll Plot) for N. Main	2	4					24	16			48	\$5,920.00
04.050.011 Develop Geometric Layout (Roll Plot) for Soledad	2	4					24	16			48	\$5,440.00
04.050.012 Incorporate Existing Utilities into Geometric Layouts							8	24			32	\$3,840.00
70% Design												
08.030.023 Temporary Signal Plans (Assume 2 Phases)												
Main St & Pecan St	2			20			32	20			74	\$9,750.00
Main St & Martin St	2			20			32	20			74	\$9,750.00
Main St & Girard St	2			20			32	20			74	\$9,750.00
Soledad St & Pecan St	2			20			32	20			74	\$9,750.00
Soledad St & Martin St	2			20			32	20			74	\$9,750.00
Soledad St & Navarro St	2			20			32	20			74	\$9,750.00
95% Design												
08.030.023 Temporary Signal Plans (Assume 2 Phases)												
Main St & Pecan St				4			8	4			16	\$2,020.00
Main St & Martin St				4			8	4			16	\$2,020.00
Main St & Girard St				4			8	4			16	\$2,020.00
Soledad St & Pecan St				4			8	4			16	\$2,020.00
Soledad St & Martin St				4			8	4			16	\$2,020.00
Soledad St & Navarro St				4			8	4			16	\$2,020.00
08.040.010 Traffic Signal Modification Layouts												
1) Relocate Traffic Signals to Final Rwy & Ramp Configuration												
Add Roll Poles & Post Equipment to Intersection Layouts												
In coordination with AEC and P&S at Main/Pecan												
Main/Martin, Soledad/Pecan & Soledad/Martin				120			120					\$3,000.00
2) Conduiting - Prepare Notes/Narrative,												
Pay Items & Quantities for Signal Modifications				60			28					\$18,140.00

**City of San Antonio - Capital Improvements Management Services Department
PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN**

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navaro Street) - Project No. 23-01590**
 Plans Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **Dain Holdings Dain, Inc.**
 Proposal Date: **01/9/2020**
 Prepared by: **R.J. Medina**

TASK CODE AND DESCRIPTION	Principal	Pr. Project Manager	CAD Tech I (Proj Tech I)	CAD Tech II (Proj Tech II)	Account Clerk	Survey Crew 2 man	Survey Crew 3 man	Survey Crew 4 man	Survey Tech Assistant	RPLR	3-D Digital Scanner Survey Crew	Field Man	TASK HOURS	TASK PRICE
	\$700.00	\$200.00	\$100.00	\$100.00	\$85.00	\$165.00	\$205.00	\$250.00	\$115.00	\$150.00	\$130.00	\$55.00		
70% Design	0	0	10	20	42	0	225	0	189	0	30	43	0	738
02 - Rights-of-Way Surveying and Mapping														
02.010. Acquire Ownership Information				4					32				44	\$5,220.00
02.020. Secure Rights of Entry (Grant of Easements)			2		24				4				30	\$7,848.00
02.030. Survey ROW								64					164	\$18,720.00
02.040. ETO - Adjacent ROW			8						32				40	\$3,900.00
02.050. ETO - Boundary Survey													0	\$0.00
02.060. Monument ROW													0	\$0.00
02.070. Prepare ROW Map													0	\$0.00
02.080. Plans and Field Notes													0	\$0.00
02.090. Plan of Survey - New Corners													0	\$0.00
03 - Topographic Surveying & Mass Mapping														
03.010. Establish Primary Project Control							24		12		0		44	\$7,500.00
03.020. Establish Secondary Project Control							40		12		0		60	\$11,220.00
03.030. Set Project Control Line and Grades (Interval 50 feet)							22		18		4		52	\$8,000.00
03.040. Survey Topographic Features				60			66		48		16	43	260	\$39,100.00
03.050. Survey Cross Sections / Spot Elevations to Develop DTM / Cross Sections							24		32		4		60	\$9,200.00
03.060. 3.00' (0.914 m) to 10.00' (3.048 m)														
03.070. 3.050, 0.20', 25 FT Into Adjacent Property (where possible)													49	\$9,100.00
03.080. Survey Gasline Level C Locates				12			22				4		19	\$1,945.00
03.090. Tree Locates													2	\$0.00
03.090. Survey Bridges and Structures - N/A													0	\$0.00
03.110. Develop Project Layout Sheet With Control Points					3				18		3		25	\$3,210.00
70% Design	0	0	0	0	0	0	116	0	4	0	0	18	0	\$6,390.00
70% Design	0	0	20	20	0	0	144	0	4	0	30	0	212	\$37,000.00
03 - Topographic Surveying & Mass Mapping														
03.120. Cemetery ROW Survey for Utility Relocation Prior to Project Bid				2			16		4		4	16	42	\$5,200.00
03.121. Locate (top) and (middle) 15" to 24" Voids and Manholes				32			40		16		36		132	\$20,280.00
03.122. Locate (top) Telecommunication Utility Voids and Manholes (22" dia)				32			40		16		24		112	\$17,520.00
85% Design	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
95% Design	0	0	10	0	0	0	24	0	4	3	0	0	41	\$7,670.00
03 - Topographic Surveying & Mass Mapping														
03.130. Survey (Locate) 36" to 48" (9.14 m to 12.19 m) dia			4	0			16		2		2		32	\$6,050.00
03.135. Survey (Locate) 36" to 48" (9.14 m to 12.19 m) dia			0	0			0		2		1		37	\$7,620.00
Bid Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
Construction Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
Project Closeout	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
TOTAL BASE FEE WITH HOUR BREAKDOWN	0	0	40	60	44	0	344	0	172	84	40	16	788	\$121,520.00
TOTAL SUBMIT BASE FEE WITH HOUR BREAKDOWN	0	0	20	60	0	0	144	0	0	30	60	0	342	\$48,970.00
Additional Services														\$22,100.00
02.010. horizontal and vertical location of an existing tunnel. Show bid location on this base drawing. Cost will include coordination and assisting L&H with closing right of entry. Per each.				0	2		24		0	4	0			\$8,400.00
Tunnels and basements will be surveyed using bench marks, turning points, and stammers. Ground Penetrating Radar is available if desired for an extra fee.				\$840.00	\$170.00		\$5,920.00		\$920.00	\$200.00	\$1,040.00			\$8,400.00
02.010. Gather horizontal and vertical location of an existing underground structures (i.e. basements, etc.) Show bid location on this base drawing. Cost will include coordination and assisting L&H with closing right of entry. Per each. Tunnels and basements will be surveyed using bench marks, turning points, and stammers. Ground Penetrating Radar is available if desired for an extra fee.				0	2		24		0	2	0			\$8,400.00
02.010. Ground Penetrating Radar to locate the rails of the old railroad survey cor.				4			24			2		30		\$5,820.00
02.120. Survey for rail locations														\$4,200.00
02.121. GPR for Soledad and Main St. - \$40,450.00 see city G-2014														\$4,200.00
Location and description of pot holes (up to 50 by others) will be to project control and embedded on the drawing.							24		0	3				\$5,820.00
							\$5,920.00		\$600.00	\$450.00				\$6,060.00
														\$17,800.00
														\$7,670.00
														\$48,970.00
														\$9,820.00
														\$ 55,290.00

City of San Antonio - Transportation & Capital Improvements

PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newman, Inc.**
 Subconsultant: **Maestas (formerly Reyes & Hamilton Engineers PLLC)**
 Proposal Date: **3/19/2020**
 Prepared By: **Dwayne Hamilton**

TASK CODE AND DESCRIPTION	Principal	Project	Project	Design	EIT III	Eng Tech III	TASK HOURS	TASK / PHASE	FEE
	\$190.00	Manager \$160.00	Engineer \$125.00	Engineer \$110.00	\$88.00	\$80.00			
20% Design	0	2	0	0	0	0	0	2	\$300.00
07. Utility Coordination / Management									
07.020. Attend utility kickoff coordination meeting.		2						2	\$300.00
40% Design	0	26	88		156	44		314	\$32,148.00
05. Drainage Design									
05.010. Establish Drainage Discharge									
05.010.010. Drainage Area Map		2	18		16	8		44	\$4,598.00
05.010.020. Model Hydrology (Pre-Project and Post-Project)		2	8		36	12		58	\$5,428.00
05.010.030. Calculate Design Discharges		1	4		8			13	\$1,354.00
05.020. Design Storm Drain Facilities (Plan and Profile)									
05.020.010. Roadways and Storm Drain System									
Hydraulic Analysis of Storm Sewer Systems		4	10		24			38	\$3,962.00
Street Capacity and Inlet Placement Analysis		2	8		16			26	\$2,708.00
Storm Sewer Plan and Profile Sheets		4	8		24	16		52	\$4,992.00
Storm Sewer Hydraulic Computation Sheets		2	8		8			18	\$2,004.00
Street Hydraulic Computation Sheets		1	8		8			17	\$1,854.00
05.020.020. Channels								0	\$0.00
05.020.030. Bridges / Bridge Class Culverts								0	\$0.00
05.020.040. Horizontal Channel Alignments								0	\$0.00
05.020.050. Channel Cross Sections								0	\$0.00
05.020.060. Culvert Excavation Cross Sections								0	\$0.00
05.020.070. Prepare Drainage Report		8	16		16	8		48	\$5,248.00
70% Design	0	15	52	0	88	40	0	195	\$19,694.00
05. Drainage Design									
05.020. Design Storm Drain Facilities (Plan and Profile)									
05.020.010. Roadways and Storm Drain System									
Update Analysis of Storm Sewer Systems		4	16		24			44	\$4,712.00
Update of Inlet Placement and Sizing		1	4		8			13	\$1,354.00
Storm Sewer Plan and Profile Sheets		4	16		24	24		68	\$6,632.00
Storm Sewer Hydraulic Computation Sheets		1	4		8	8		21	\$1,994.00
Street Hydraulic Computation Sheets		1	4		8	8		21	\$1,994.00
05.020.020. Channels								0	\$0.00
05.020.030. Bridges / Bridge Class Culverts								0	\$0.00
05.020.040. Horizontal Channel Alignments								0	\$0.00
05.020.050. Channel Cross Sections								0	\$0.00
05.020.060. Culvert Excavation Cross Sections								0	\$0.00
05.020.070. Update Drainage Report		4	8		16			28	\$3,008.00

City of San Antonio - Transportation & Capital Improvements

PROJECT WORK PLAN AND FEE PROPOSAL BREAKDOWN

Project: **N. Main Avenue & Soledad Street (Pecan Street to Navarro Street) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **Maestas (formerly Reyes & Hamilton Engineers PLLC)**
 Proposal Date: **3/19/2020**
 Prepared By: **Dwayne Hamilton**

TASK CODE AND DESCRIPTION	Principal	Project	Project	Design	EIT III	Eng Tech III	TASK HOURS	TASK / PHASE FEE	
	\$190.00	\$150.00	\$125.00	\$110.00	\$88.00	\$80.00			
95% Design	0	20	32	0	56	48	0	156	\$15,768.00
95% Design	0	0	1	2	4	0	0	0	\$697.00
05. Drainage Design									
05.020. Design Storm Drain Facilities (Plan and Profile)									
05.020.010. Roadways and Storm Drain System									
Finalize Storm Sewer Plan and Profile Sheets		8	16		32	24		80	\$7,936.00
Finalize Hydraulic Computation Sheets		8	8		16	16		48	\$4,888.00
Analysis of Additional Street Capacity (Giraud)			1	2	4				\$697.00
05.020.020. Channels								0	\$0.00
05.020.030. Bridges / Bridge Class Culverts								0	\$0.00
05.020.040. Horizontal Channel Alignments								0	\$0.00
05.020.050. Channel Cross Sections								0	\$0.00
05.020.060. Culvert Excavation Cross Sections								0	\$0.00
05.020.070. Finalize Drainage Report		4	8		8	8		28	\$2,944.00
Bid Phase	0	0	0		0	0		0	\$0.00
Construction Phase	0	8	16		0	0		24	\$3,200.00
13. Construction Management									
13.010. Reestablish Project Control Points for Contractor Prior to Construction									
13.020. Review Contractor Pay Estimates									
13.030. Review / Negotiate Change Orders									
13.040. Review Shop Drawings		4	8					12	\$1,600.00
13.050. Respond to RFIs		4	8					12	\$1,600.00
13.060. Project Site Visits and Reports (Minimum Two Per Month)									
13.070. Participate in Construction Progress Meetings and Prepare Meeting Minutes (Coincide With 13.6 When Possible)									
13.080. Final Walkthrough and Punchlist Review									
13.090. TDLR Inspection									
Project Closeout	0	1	0		6	6		16	\$1,488.00
05. Drainage Design									
05.030. Regulatory Coordination									
05.030.030. Secure LOMR									
14. Project Closeout									
14.010. Prepare Record Drawings		1		3	6	6		16	\$1,488.00
14.020. Final Warranty Inspection									
TOTAL BASE FEE WITH HOUR BREAKDOWN	0	72	188	0	306	138	0	707	\$72,598.00
TOTAL SWA1 FEE WITH HOUR BREAKDOWN	0	0	1	2	4	0	0	0	\$697.00

Additional Services

List additional services as scoped. Examples include Geotech and SUE.

City of San Antonio - Transportation & Capital Improvements

Project: **N. Main Avenue & Soledad St (Pecan St to Navarro St) - Project No. 23-01598**
 Prime Consultant: **Lockwood, Andrews & Newnam, Inc.**
 Subconsultant: **Raba Kistner Inc.**
 Original Proposal PSA17-169-00: 11/14/2017 Revised Proposal: 10/5/2019
 Prepared By: Eric J Neuner Prepared By: Bob Austin

BORINGS	Number of Borings	Depth of Borings	Footage
Soledad Street	3	10	30
Main Street	3	10	30
Total:	6		60 Ft

Boring Location and Excavation Permits	Unit	# Units	Cost/Unit	Total
Vehicle Charge Per Day	DAY	2	\$ 65.00	\$ 130.00
Traffic Control - assume night drilling will be required	DAY	2	\$ 2,500.00	\$ 5,000.00
Total				\$ 5,130.00

Work (Drilling/Sampling/Testing)	Unit	# Units	Cost/Unit	Total
Drill Rig Mobilization	EA	2	\$ 325.00	\$ 650.00
Auger Drilling w/o Sampling 0-25 ft (Soil)	FT	60	\$ 24.00	\$ 1,440.00
Patch Holes	EA	6	\$ 25.00	\$ 150.00
Hand Penetrometer Test	EA	24	\$ 3.00	\$ 72.00
Vehicle Charge	Day	2	\$ 65.00	\$ 130.00
Total				\$ 2,442.00

Laboratory Testing and Analysis	Unit	# Units	Cost/Unit	Total
Moisture Content Test	EA	24	\$ 15.00	\$ 360.00
Atterberg Limits Determination	EA	12	\$ 95.00	\$ 1,140.00
Material Finer than No. 200 Sieve	EA	6	\$ 95.00	\$ 570.00
Sulfate Content	EA	5	\$ 105.00	\$ 525.00
California Bearing Ratio (CBR) - 1 pt. w/ Moisture-Dens	EA	2	\$ 650.00	\$ 1,300.00
Percent Swell Test	EA	2	\$ 220.00	\$ 440.00
pH Testing	EA	5	\$ 180.00	\$ 900.00
Total				\$ 5,235.00

Total \$ 12,807.00