

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2025	2026	2027	2028	2029
Capital Expenditures	-\$258,766-	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	-258,766-	-0-	-0-	-0-	-0-
# ADDITIONAL FTE					
POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget? Yes No
 Is this item using Federal Funds? Yes No
 Is this item using State Funds? Yes No

Budget Account No: Fund 3500 Dept 361 Unit 1480 Object 6505

Recommended Sources of Funds/Summary of Fiscal Impact:

Transportation Improvement Fund/CR 880 Bridge over C-51 Canal

Brief Description:

Supplement No. 3

• Basic Services	\$ 38,652.00
• Reimbursable	\$ 19,873.55
• Optional Services	\$ 147,939.47
Total Supplement No. 3	\$ 206,465.02

Estimated Staff Costs

• Roadway Production	\$ 42,000.00
• Survey	\$ 10,300.00
Total Staff Costs	\$ 52,300.00

Fiscal Impact \$ 258,765.02

C. Departmental Fiscal Review:

Darry Ramalsingh
III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

ASDUAL 11/5/24
 OFMB as 11/5 MD 11/5

Frankie Jack 11/12/24
 Contract Dev. and Control

B. Approved as to Form and Legal Sufficiency:

[Signature] 11/2/24
 Assistant County Attorney

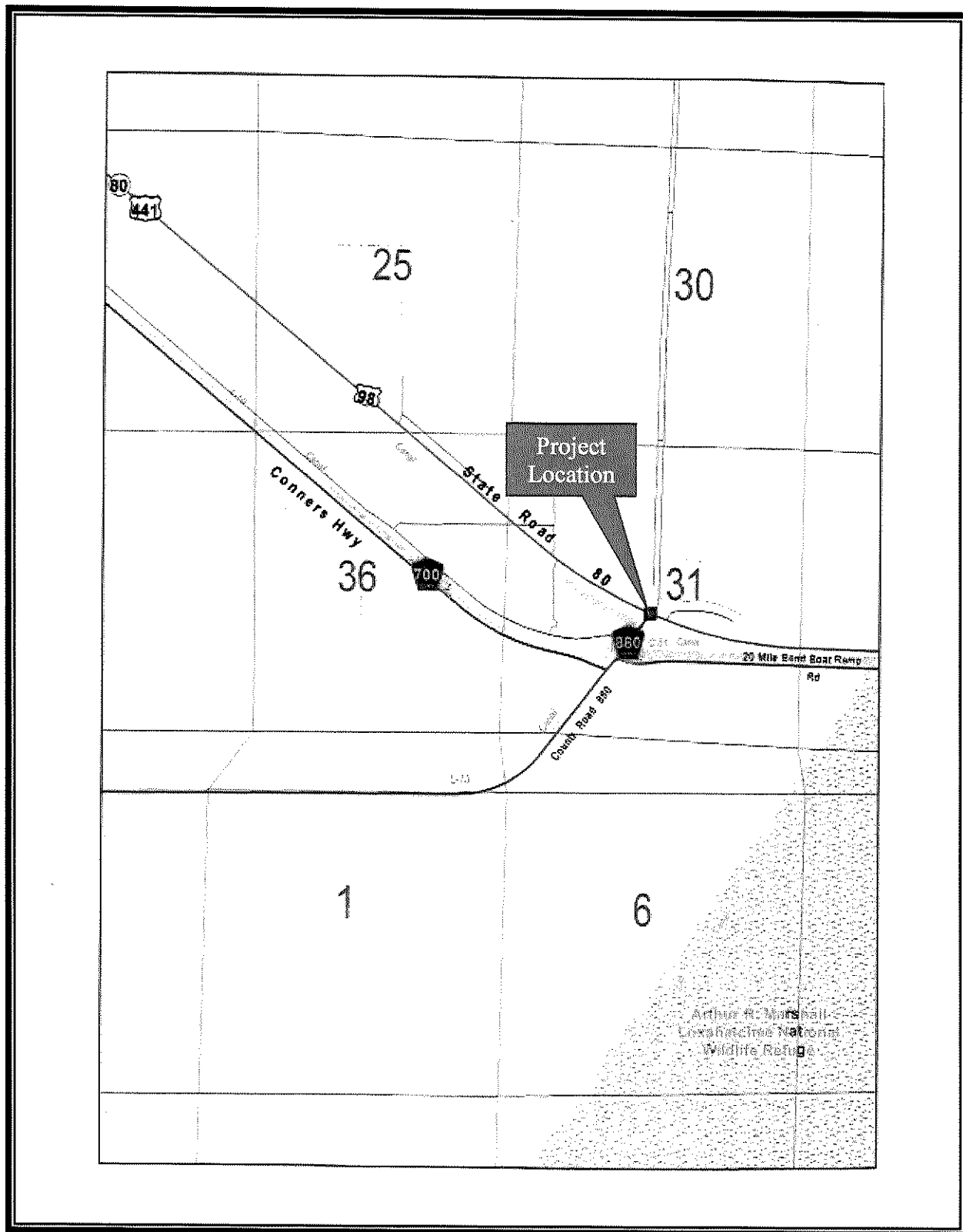
C. Other Department Review:

 Department Director

This summary is not to be used as a basis for payment. 2

CR 880 BRIDGE OVER C-51 CANAL

Palm Beach County Project #2015500



LOCATION MAP

ATTACHMENT 1

SUPPLEMENT NO. 3 TO THE CR 880 BRIDGE OVER C-51 CANAL
PROJECT CONTRACT

Project Name: **CR 880 Bridge over C-51 Canal**

Project No: **2015500**

Commission District No.: **6**

SBE Participation for this authorization is **10.50%**

SBE Participation to date for this Contract is **74.67%**

SBE Commitment is **100%**

This authorization is under the SBE Ordinance.

PALM BEACH COUNTY

BOARD OF COUNTY COMMISSIONERS

Account No.: 3500-361-1480-6505

Supplement No. 3 to the Project Contract dated July 7, 2015, (R2015-0839), (CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the Additional Services described in **EXHIBIT A** and **EXHIBIT B** for this Supplement.

1. CONSULTANT: Alan Gerwig & Associates, Inc.
2. Address: 12798 W. Forest Hill Boulevard, Suite 201 Wellington, FL 33414
3. CONSULTANT shall begin work promptly on the requested Additional Services, per the schedule attached as part of **EXHIBIT A**.
4. Scope of Services to be provided by CONSULTANT: Provide professional engineering services to Palm Beach County for the CR880 Bridge over C-51 Canal project that includes geotechnical review and structural evaluation in accordance with the attached **EXHIBIT A** dated July 19, 2024.
5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

<input checked="" type="checkbox"/> Basic Services in a lump sum fee of	\$ 38,652.00
<input checked="" type="checkbox"/> Reimbursable Expenses capped at	\$ 19,873.55
<input checked="" type="checkbox"/> Optional Services capped at	<u>\$147,939.47</u>
Totaling	\$206,465.02

OEBO Schedules 1 & 2 **EXHIBIT C**

Project History **EXHIBIT D**

6. All terms of the CONTRACT, shall apply to this Supplement.

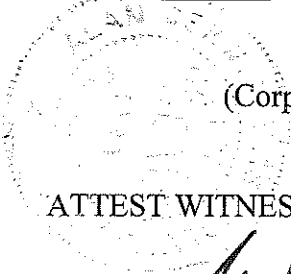
ATTACHMENT 2

SUPPLEMENT NO. 3 TO THE CR 880 BRIDGE OVER C-51 CANAL
PROJECT CONTRACT

IN WITNESS WHEREOF, this Supplement is accepted as of the date signed by the COUNTY below, subject to the terms and conditions of the aforementioned CONTRACT.

CONSULTANT: Alan Gerwig & Associates, Inc.
Federal ID: 65-0843137

Signed: _____
Typed Name: Alan Gerwig, P.E., LEED AP
Title: Vice President
Date: 10/30/2024



(Corporate Seal)

ATTEST WITNESS:

Signed: _____

Typed Name: Simon Coleman

Title: Chief Engineer

Date: 10/30/2024

COUNTY:

Approved as to Terms and Conditions

By: _____
for
Typed Name: Morton L. Rose, P.E.
Title: Division Director

SUPPLEMENT NO. 3 TO THE CR 880 BRIDGE OVER C-51 CANAL
PROJECT CONTRACT

{SIGNATURE PAGES CONTINUED}

COUNTY: **Palm Beach County**, a Political
Subdivision of the State of Florida, by and
through its Board of County Commissioners

Signed: _____

Typed Name: _____

Title: Mayor _____

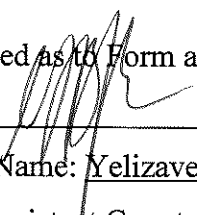
Date: _____

ATTEST:

Joseph Abruzzo
Clerk of the Circuit Court & Comptroller

By: _____
Deputy Clerk

Approved as to Form and Legal Sufficiency

By:  _____

Typed Name: Yelizaveta B. Herman

Title: Assistant County Attorney

N:\ROADWAY\CCNA\2015\2015500 CR880\Project\Supp 3\CSA and Supplement Template.docx

12798 W. Forest Hill Boulevard
Suite 204
Wellington, FL 33414
Phone: (561) 792-9000
Fax: (561)792-9901
CA No. 7969

Alan Gerwig & Associates, Inc.

Consulting Engineers



CR880 Bridge Replacement – Supplemental No. 3

Palm Beach County Project No. 2015500

AGA Proj. No. 15-034

July 8, 2022

(Revised September 19, 2022)

(Revised October 24, 2022)

(Revised December 20, 2022)

(Revised January 23, 2023)

(Revised February 2, 2023)

(Revised February 13, 2023)

(Revised March 10, 2023)

(Revised April 3, 2023)

(Revised April 21, 2023)

(Revised July 5, 2023)

(Revised September 12, 2023)

(Revised April 19, 2024)

(Revised July 19, 2024)

AB
8/11/24
OK HK
9/19/24

Scope of Services

Basic Services

Unsuitable Organic Material (Muck) in Project Corridor

The majority of the project corridor contains unsuitable organic material (muck), which needs to be addressed to avoid significant and inconsistent settlement of the new roadway section. Please see the attached proposals from TSF and HSQ for further information.

Reimbursable Services

Survey

Additional survey services to change the specific purpose survey to 11"x17" format from the original 24"x36" format and to perform additional title review. Please see proposal from HSQ for further details.

Optional Services

Relocation of FDOT Multi-Post Sign

The FDOT has installed a multi-post sign on the east side of CR880, close to Southern Blvd. This sign is in the proposed roadway widening and will need to be removed and relocated. Please see proposal from HSQ for further details.

Structural Analysis for Multi-Post Sign

A structural analysis for the multi-post sign using the FDOT Mathcad program will be performed by AGA if necessary.

Soil Boring for Multi-Post Sign

If soil data for the relocation of the multi-post sign is not available, a soil boring will be performed at the proposed location for the sign. Please see proposal from TSF for further information.

Implementation of Mitigation Measures in Memorandum of Agreement (MoA)

The draft MoA for the project contains a range of mitigation measures that were agreed during the consultation between Palm Beach County and the State Historic Preservation Officer (SHPO) and the Army Corps of Engineers. Please see proposal from Janus Research for further details.

3D Scan/Development of 3D Model of Existing Bridge

One of the agreed mitigation measures in the draft MoA involves a 3D scan and the development of a 3D model of the existing bridge. Please see proposal from Arc Surveying & Mapping, Inc. for further details. AGA will coordinate this activity with Arc Surveying & Mapping, Inc.

Preparation of Storm Water Pollution Prevention Plan (SWPPP)

The SFWMD requires that a SWPPP be prepared and submitted as part of the Environmental Resource Permit application. Please see proposal from HSQ Group for further information.

Retaining Wall to Avoid Wetland Impacts

The use of a retaining wall along the east side of the road, south of the bridge is being considered to avoid wetland impacts in that area of the project. It is anticipated that the wall will be a gravity wall, which will be evaluated by HSQ Group and incorporated in the roadway plans. Please see proposal from HSQ Group for further information.

Address SFWMD Comments from Environmental Resource Permit

Following the review of the Environmental Resource Permit application, the SFWMD is requiring additional stormwater analysis that is beyond the original scope of work. Please see proposal from HSQ Group for further information.

Fees

Basic Services Fees

Muck Issue – AGA:	\$9,706.32
Muck Issue – HSQ:	\$12,225.68
Muck Issue – TSF:	\$16,720.00
Basic Services Total:	\$38,652.00

Reimbursable Services Fees

Survey – HSQ:	\$19,873.55
Reimbursable Services Total:	\$19,873.55

Optional Services Fees

Multi-Post Sign – HSQ:	\$2,081.55
Multi-Post Sign Structural Analysis – AGA:	\$1,891.44
Multi-Post Sign Soil Boring – TSF:	\$4,975.00
MoA Mitigation Measures – Janus Research:	\$35,341.99
MoA Mitigation Measures – AGA:	\$8,085.42
State Historical Marker – Janus Research:	\$8,471.88
3D Scan & Model of Existing Bridge – ASM:	\$47,930.74
Coordination of 3D scan/3D modeling – AGA:	\$10,851.12
SWPPP – HSQ:	\$7,025.24
Incorporate Retaining Wall in Plans – HSQ:	\$1,951.46
Address SFWMD Comments – HSQ:	\$19,333.63
Optional Services Total:	\$147,939.47

Grand-Total: \$206,465.02 ✓

A breakdown of the above fees is provided in the attached documents.



HSQ GROUP, LLC
Engineers • Planners • Surveyors

**CR880 Bridge Replacement
COUNTY PROJECT NO. 2015500
SUPPLEMENTAL AGREEMENT 3
SCOPE OF SERVICES**

October 24, 2022
Revised on 2/9/2023
Revised 4/18/2023
Revised 6/29/2023 ✓

DESCRIPTION

Basic Services

The additional services related to the Supplement Agreement 3 are:

1. The Geotechnical Report shows that unsuitable material "muck" exists along the entire length of the roadway. The scope related to this task is summarized below:
 - 1.1 Analyze the different options of the muck removal and prepare a memorandum along with needed sketches and submit to the county.
 - 1.2 Coordinate with project team and attend meetings with the county.
 - 1.3 Filed meetings with the design team to evaluate the surcharge impact.
 - 1.4 Prepare typical sections for an estimated six phases of the soil surcharge to stabilize the muck in place. The anticipated phases are:
 - Phase 1: From Southern Blvd to the Bridge (southbound only)
 - Phase 2: From the bridge to Conner Hwy (southbound)
 - Phase 3: From Conner Hwy to the beginning of the project (southbound)
 - Phase 4: From the beginning of the project to the bridge (northbound)
 - Phase 5: From the bridge to Southern Blvd (Northbound)
 - Phase 6: Along 20 Mile Bend Boat Ramp Road
 - 1.5 Each phase will be analyzed separately from impact point view on the surroundings and the possible height and slopes of the surcharge fill. Cross sections will be used for the analyses but will not be part of the plans.

Reimbursable Services

1. The original specific purpose survey as per contract, was prepared on 24"x36" sheet size, during the review of the survey, the county requested to prepare the plans on 11"x17" sheets which resulted in recutting new sheet. Also, survey comments prompted the need for additional title search review which is not part of the original scope. In addition, HSQ staff attended meetings that were not part of the original contract.

**CR880 Bridge Replacement
SA 3 Scope of Services**



HSQ GROUP, LLC
Engineers • Planners • Surveyors

Optional Services

1. The FDOT installed a sign at CR880 approaching Southern Blvd which states "Reduced Visibility Possible". The sign has electric meter and flashers. This sign will be removed since it conflicts with the roadway widening and must be redesigned with foundation and breakaway double posts.

HSQ will prepare the sign plan details but no electrical work or foundation work. The 96% plans that were submitted to the county shows this sign to be relocated without any special design, which was not part of the original scope of services. It is anticipated that the sign will be a custom design. However, the details of the sign and foundation will be evaluated and discussed with the County before any work under Optional Services for this item takes place.

Also, structural analyses will be required as warranted for the sign that will be prepared by Alan Gerwig and Associates, Inc.

2. Prepare SWPPP plans for SFWMD permit purposes.
3. Evaluate the impact on the wetland area east of CR 880 and south of Connors Hwy revise plans if needed to either add gravity wall at the east side of the project or modify front slope with guardrail to avoid impact on wetlands if doable. If not, then wetland mitigation impact will be required.
4. Address comments made by SFWMD as applicable and as listed below. The comments were triggered due to the impact on the wetland which are above and beyond the original scope

"13. Please provide calculations and documentation demonstrating that the project, as proposed, meets the applicable design criteria as indicated in the District's Applicant's Handbook, Vol. II. Typically, the information would include, at a minimum, but is not necessarily be limited to, the following:

- *Provided summary of the total swale area (acres) and the provided water quality treatment volume (acre-feet) to compensate for the additional impervious area proposed for the project.*
- *Provide an analysis and maps of the pre- development peak rate of discharge, for all design storm events. Account for all onsite and offsite contributing area.*
- *Provide an analysis and maps of the post-development peak rate of discharge for the design storm events. Account for all onsite and offsite contributing area.*

These analyses should include:

- a. Offsite areas contributing runoff to the system.*
- b. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin.*
- c. Design storms used to include rainfall depth, duration, frequency, and distribution.*
- d. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s).*

CR880 Bridge Replacement
SA 3 Scope of Services

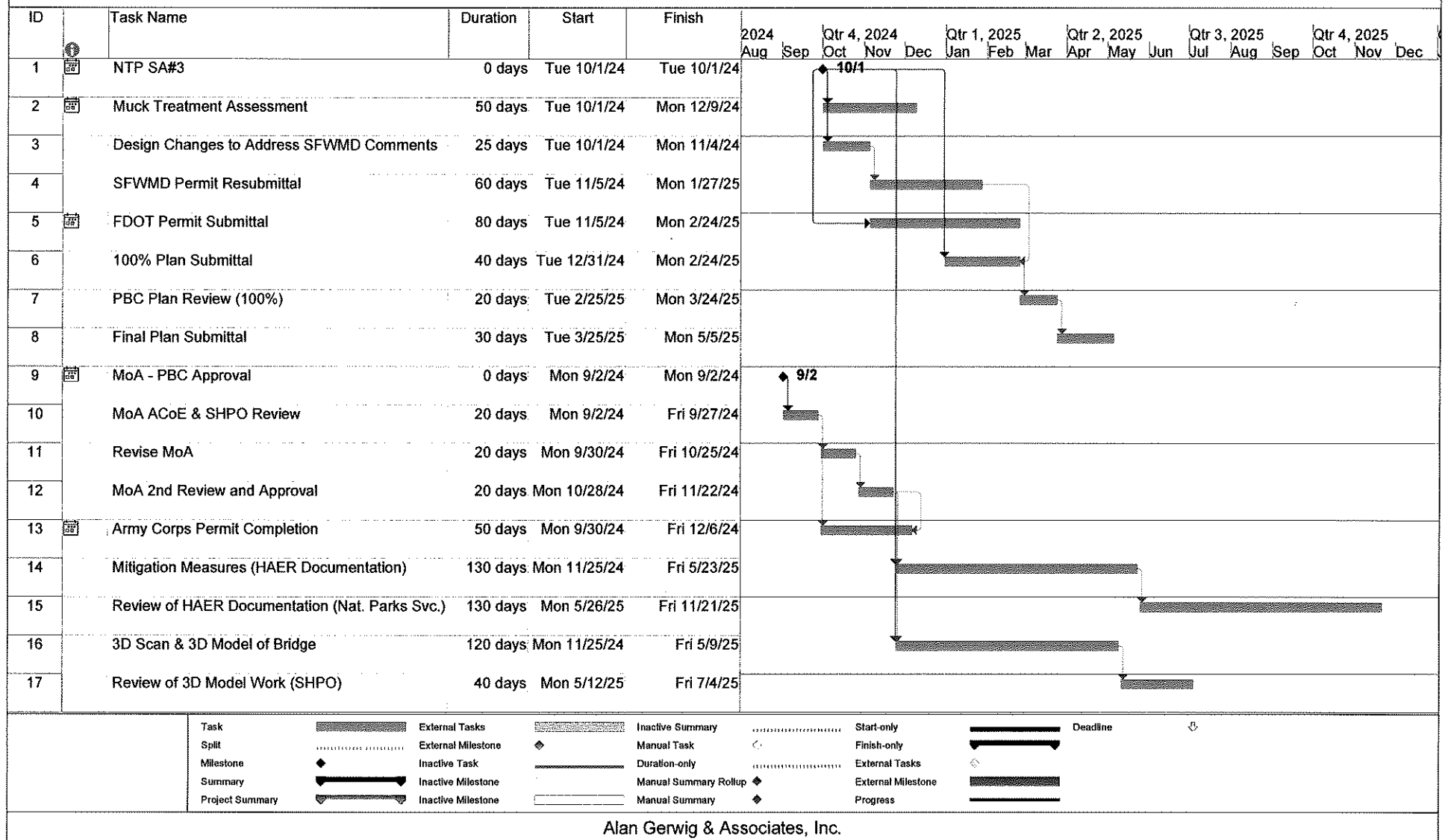


HSQ GROUP, LLC
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- e. Stage-storage computations for any area such as a reservoir, closed basin, detention area, or channel, used in storage routing.
 - f. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction.
 - g. Flood routings through on-site conveyance and storage areas.
 - h. Water surface profiles in the primary drainage system for each required design storm event(s).
 - i. Runoff peak rates and volumes discharged from the site for each required design storm event(s).
 - j. Design tailwater elevation(s) for each storm event at all points of discharge
14. Please provide a land use summary table comparing the existing and proposed land use for the project (disturbed) area. Include acreage and minimum and maximum elevations of pavement, swale bottom and swale bank, and pervious area. [Section 4.2.3(b), Vol. I]
15. Please provide an additional 50% water quality treatment volume above the amounts required pursuant to Section 4.2.1, A.H. Volume 2 and a site-specific pre- vs. post-development nutrient analysis in accordance with the procedures outlined in Appendix E - A.H. Volume 2.
16. The portions of the project site are located within a FEMA Flood Zone. For impacts to regulated floodplains, in accordance with the Applicant's Handbook, Vol. II, provide: [Form 62-330.060(1)1.4.c.]
- Location and volume of encroachment within regulated floodplain(s)
 - Plans and calculations for compensating floodplain storage to demonstrate the proposed project will not result in a net encroachment into the floodplain from the average wet season water table up to the 100-year flood stage. Please use Design Aid V. for guidance.

CR880 Bridge Replacement
 SA 3 Scope of Services

CR 880 Bridge Replacement - Schedule 7/30/24



Name of Project:
County:

CR880 Bridge Replacement

SA 3

6/29/2023
Nour Shehadeh

Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr Engineer	Project Engineer	Project Manager	Engineer Intern	Salary Cost By Activity
		\$60.00	\$44.00	\$70.00	\$33.00	
5. Roadway Plans	94	9.00	19.00	19.00	47.00	\$4,257.00
Total Staff Hours	94	9.00	19.00	19.00	47	
Total Staff Cost		\$540.00	\$836.00	\$1,330.00	\$1,551.00	\$4,257.00

Check = \$4,257.00

<u>BASIC SERVICES:</u>	
Salary Related Costs	\$4,257.00
Multiplier	2.8719
Roadway Basic Services	\$12,225.68
Basic Services Total:	\$12,225.68

<u>REIMBURSABLE SERVICES:</u>	
Surveying Services	\$19,873.55
Reimbursable Services Total:	\$19,873.55

<u>OPTIONAL SERVICES:</u>	
Roadway Optional Services	\$30,391.88
Optional Services Total:	\$30,391.88

Grand Total Estimated Fees: \$62,491.11 ✓

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Muck removal design memorandum		LS	1	12	12	Analyze the different options of the muck removal and prepare a memorandum along with needed sketches and submit to the county.
5.2	Design meetings		EA	4	1	4	Coordinate with project team and attend meetings with the county.(2 WITH COUNTY AND 2 WITH SUBS)
5.3	Field meetings		EA	2	3	6	Filed meetings with the design team to evaluate the surcharge option
5.4	Analyses /Typical section for surcharge		EA	6	12	72	Prepare typical sections for an estimated six phases of the soil surcharge to stabilize the muck in place and prepare typical section sheets
Roadway Plans Technical Subtotal						94	



HSQ GROUP, LLC
 Engineers • Planners • Surveyors

**CR880 Bridge Replacement
 County Proj. Number 2015500
 Summary of fee proposal SA 3
 Reimbursable Surveying Services**

ACTIVITY	Senior Surveyor and Mapper		Surveyor and Mapper		Survey Technician		Total	Total COST BY ACTIVITY
	STAFF HOURS	HR. RATE	STAFF HOURS	HR. RATE	STAFF HOURS	HR. RATE	STAFF HRS. ACTIVITY	
Survey Tasks	60	\$ 60.00	40	\$ 50.00	40	\$ 33.00	140	\$ 6,920.00
TOTAL Basic Services	60	\$ 3,600.00	40	\$ 2,000.00	40	\$ 1,320.00	140	\$ 6,920.00

<u>Surveying Services</u>	
Salary Related Costs	\$6,920.00
Multiplier	2.8719
Survey Basic Services	\$19,873.55
Total Surveying Services:	\$19,873.55

CR880 Bridge Replacement

County Proj. Number 2015500

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	TOTAL HOURS	REMARKS
Cover sheet	EA	1	4	4	
Survey plan sheets	EA	10	9	90	
Project control sheets	EA	4	5	20	
Reference points	EA	2	5	10	
Additional title search reviews	LS	1	16	16	
TOTAL				140	✓

**CR880 Bridge Replacement
(optional services)**

SA 3

4/18/2023

Nour Shehadeh

Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr Engineer	Project Engineer	Project Manager	Engineer Intern	Salary Cost By Activity
		\$60.00	\$44.00	\$70.00	\$33.00	
1.0 Special sign design	16	1.60	3.20	3.20	8.00	\$724.80
2.0 Prepare SWPPP plans	54	5.40	10.80	10.80	27.00	\$2,446.20
3.0 Revise plans to avoid wetlands	15	1.50	3.00	3.00	7.50	\$679.50
4.0 Adress SFWMD Comments	120	60.00	24.00	24.00	12.00	\$6,732.00
Total Staff Hours	205	68.50	41.00	41.00	55	
Total Staff Cost		\$4,110.00	\$1,804.00	\$2,870.00	\$1,798.50	\$10,582.50

Check = \$10,582.50

OPTIONAL SERVICES:	
Salary Related Costs	\$10,582.50
Multiplier	2.8719
Roadway Basic Services	\$30,391.88
Optional Services Total:	\$30,391.88

Project Activity 20: Signing and Pavement Marking Plans

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
1	Special sign design	Sheet	1	16	1	16	design analyses / detail sheet / permitting
2	Prepare SWPPP plans	EA	9	6	2	54	7 plan sheets and 2 typical detail sheets
3	Evaluate the impact on the wetland	LS	1	15	3	15	
4	Address additional SFWMD comments	LS	1	120		120	comments made were beyond the original scope of services
Subtotal					6	205	



Revised December 8, 2022
July 6, 2022

TO: Mr. Simon Coleman, Ph.D., P.E.
Alan Gerwig & Associates, Inc.
12798 W. Forest Hill Boulevard, Suite 201
Wellington, FL 33414

SUBJECT: Additional Geotechnical Engineering Study
CR 880 Bridge over C-51 Canal
Palm Beach County, Florida
County Project No. 2015500
TSF Project No. 7111-18-455

Dear Simon:

Tierra South Florida, Inc. (TSF) is pleased to present this proposal for the above-referenced project. The price proposal is based upon an understanding of the required geotechnical work scope for the project.

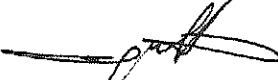
Organic soils were encountered during the Geotechnical Engineering Study. Several options were discussed in the Geotechnical Engineering Study report to address the impact of organic soils. It is our understanding that the surcharge option will be utilized to treat the organic soils.


Attachment A lists our scope of work proposed for this phase of the project. Attachment B shows the price proposal for the proposed work.

Please call with any questions or need further information.

Very truly yours,

TIERRA SOUTH FLORIDA, INC.


Raj Krishnasamy, P.E.
President/Principal Engineer


Ramakumar Vedula, P.E.
Principal Engineer

Attachments: Attachment A – Estimated Scope of Work
Attachment B – Estimated Fee

ATTACHMENT A
ESTIMATED SCOPE OF WORK
CR880 OVER C-51 CANAL

Based on the scope of services, we estimate the following work will be required.

Basic Service

1. Provide technical specifications for surcharge.
2. Provide technical specifications for settlement plates.
3. Assist with surcharge cross-section, and soil treatment related issues.
4. Field meeting and review.
5. Meetings.

Optional Service:

6. Perform one (1) SPT boring to a depth of 25 feet below existing grade for sign structure.
7. Utility call and related coordination.
8. Provide soil parameters.

Estimated cost

It is proposed that the fee for the performance of the services outlined above is determined on a unit fees basis with an estimated fee of **\$16,720.00** for Basic Service, and **\$4,975.00** for optional service (sign structure). The estimated cost will not be exceeded without prior authorization from the client.

**ATTACHMENT B
TIERRA SOUTH FLORIDA, INC.
CR880 Over C-51 Canal
Additional Geo Services (Basic Service)**

	Unit	# of Units	Unit Price		Total
I. ENGINEERING AND TECHNICAL SERVICES					
Principal Engineer, P.E.	Hour	22	\$	185.00	\$ 4,070.00
Senior Geotechnical Engineer, P.E.	Hour	35	\$	175.00	\$ 6,125.00
Engineer, P.E.	Hour	45	\$	145.00	\$ 6,525.00
TOTAL FEE FOR ADDITIONAL GEOTECHNICAL SERVICES (BASIC SERVICE)					\$ 16,720.00 ✓

ATTACHMENT B
TIERRA SOUTH FLORIDA, INC.
CR880 Over C-51 Canal
Optional Services (Sign Structure)

	Unit	# of Units	Unit Price		Total
I. FIELD INVESTIGATION					
Mobilization of Men and Equipment Truck-Mounted Equipment	Trip	1	\$	350.00	\$ 350.00
SPT Borings 0 - 50 ft depth	L.F.	25	\$	13.00	\$ 325.00
Grout Boreholes 0 - 50 ft depth	L.F.	25	\$	6.00	\$ 150.00
Casing Allowance 0 - 50 ft depth	L.F.	25	\$	7.00	\$ 175.00
II. LABORATORY TESTING					
Visual Examination by Staff Engineer	Hour	2	\$	110.00	\$ 220.00
Natural Moisture Content Tests	Test	1	\$	20.00	\$ 20.00
Grain-Size Analysis - Full Gradation	Test	1	\$	75.00	\$ 75.00
Corrosion Test	Test	1	\$	190.00	\$ 190.00
Organic Content Tests	Test	1	\$	50.00	\$ 50.00
III. FIELD ENGINEERING AND TECHNICAL SERVICES					
Site Recon./Utility Coordination/MOT Sr. Engineering Technician	Hour	8	\$	80.00	\$ 640.00
IIIA. ENGINEERING AND TECHNICAL SERVICES					
Principal Engineer, P.E.	Hour	2	\$	185.00	\$ 370.00
Senior Geotechnical Engineer, P.E.	Hour	4	\$	175.00	\$ 700.00
Engineer, P.E.	Hour	10	\$	145.00	\$ 1,450.00
Draftperson	Hour	4	\$	65.00	\$ 260.00
TOTAL FEE FOR GEOTECHNICAL SERVICES-Sign Structure (Optional)					\$ 4,975.00

**Scope of Work
Mitigation Implementation for the CR880 Bridge Replacement Project
Palm Beach County, Florida**

**Janus Research
May 4, 2023**

The following scope of work details the documentation and tasks that Janus Research will complete to implement the mitigation outlined in the Memorandum of Agreement (MOA). Janus Research previously completed a Cultural Resources Assessment Survey and Effects Case Study Report for this project. Both documents will assist in the preparation of the tasks outlined below, but more detail and documentation is needed due to the federal and state specifications for the items below. The documentation below is also time intensive due to the field, writing, and formatting requirements, and the time included in the costs will cover the multiple reviews and revisions that will come from the National Park Service and the State Historic Preservation Officer/Florida Division of Historical Resources.

HAER Documentation:

Prior to the demolition of the bridge, Janus Research will perform the following documentation of the Bridge in accordance with Historic American Engineering Record (HAER) Level Two standards that are outlined in Item II of the MOA.

1. The written historical and descriptive data (information will be used from previous report, as applicable) prepared in accordance with outline format (Level II) guidelines containing:
 - a. A general history of the community development;
 - b. A construction history of the bridge including the history of the bridge type;
 - c. An architectural description of the resource including alterations;
 - d. A description of the site and changes;
 - e. Any historical photographs in the supplementary materials section (these may be subject to copyright release); and
 - f. A site plan.
2. Large-format (4" x 5" or larger negative size) photographs processed for archival permanence in accordance with Historic American Buildings Survey(HABS)/Historic American Engineering Record (HAER) photographic specifications (www.nps.gov/hdp/standards/photoguidelines.pdf).

Views will include: At least one view that shows the resource in context; One photograph of both faces; Photographs of the substructure; Views of any detail unique to the resource including railings or date stamps/plaques.

3. At least one, color digital photograph of the bridge and its setting. The digital format should meet the NPS National Register of Historic Places (NRHP's) 75-year permanence standard and higher resolution digital files (www.nps.gov/NR/PUBLICATIONS/bulletins/photopolicy/index.htm).
4. Photo locations keyed to the site plan and included with the "Index to Photographs."
5. Select copies of existing drawings printed on archival vellum.

Archival and non-archival copies of documentation will be produced according to the MOA Item II C. It is important to note that HAER documentation is precise and requires the use of specific equipment and materials as well as archival processing. These costs are included in the costs proposal. Additionally, a boat will be needed for photography. The processing and review time by National Park Service cannot be determined by Janus Research; at this time, it may be up to 12 months for the National Park Service to complete review of the documentation. Janus Research will address one round of comments from the County and Alan Gerwig and Associates (AGA), and two rounds of comments from the National Park Service.

Educational Website of the Twenty Mile Bend/Loxahatchee Bridge:

An educational website will be developed and hosted by Palm Beach County. Janus Research will provide the written information/historic context and current and historic photographs for the website. This information will be provided in a format that will be ready to be placed on the County website. This includes distilling the information from other sources in a user-friendly format, and will require time from the graphics staff to ensure the material is visually appealing. Janus Research will meet the stipulations in Item III of the MOA regarding the specific information needed for the website.

***Janus Research will not develop the website. The Survey Quality drone footage/3D scanning of the bridge which highlight the significant engineering/architectural features of the bridge will not be provided by Janus Research. Janus Research will assist AGA to incorporate these materials provided by others into the materials for the website.

Marker:

A state historical marker will be placed in an appropriate location adjacent to the new bridge. Janus Research will prepare the text for the marker, and will help navigate the state marker process, and present the marker at the State Marker Committee meeting; these meetings take place typically four times a year. Although the text is taken from previous materials, the format and word limitations requires rewriting of material. This task will include two rounds of reviews by the County. Janus will address the comments by the State

Marker staff, and the correspondence that take place as part of the writing and revising of the marker's text. Costs for the fabrication of the marker are not included in this costs proposal at this time.

Meetings and coordination:

Janus Research will participate in 5 meetings with the Team and 3 meetings with Agencies.

JANUS RESEARCH
Cost Proposal
Mitigation Implementation for the CR 880 Bridge Replacement
Memorandum of Agreement



August 25, 2023 Revised

TASK 1: HAER Documentation of the Bridge

POSITION	HOURS		RATE		TOTAL
Project Manager	16	\$	70.00	\$	1,120.00
Project Archaeologist	4	\$	28.75	\$	115.00
Senior Architectural Historian	56	\$	54.60	\$	3,057.60
Architectural Historian	87	\$	42.00	\$	3,654.00
Historical Technician	16	\$	22.64	\$	362.24
Graphics Specialist	22	\$	20.70	\$	455.40
			Subtotal	\$	8,764.24
			Multiplier: 2.32	\$	20,333.04

DIRECT EXPENSES

Printing / Photocopies	84.00
HAER Large Format Costs	2,523.96
Postage/Express Mail	108.00
Total Direct Expenses	\$ 2,715.96

TOTAL LABOR & EXPENSES - TASK 1 **\$ 23,049.00** ✓

TASK 2: Educational Website of the CR 880 Bridge Replacement

POSITION	HOURS		RATE		TOTAL
Project Manager	1	\$	70.00	\$	70.00
Senior Architectural Historian	80	\$	54.60	\$	4,368.00
Architectural Historian	4	\$	42.00	\$	168.00
Graphics Specialist	10	\$	20.70	\$	207.00
			Subtotal	\$	4,813.00
			Multiplier: 2.32	\$	11,166.16

DIRECT EXPENSES

Printing / Photocopies	24.00
Total Direct Expenses	\$ 24.00

TOTAL LABOR & EXPENSES - TASK 2 **\$ 11,190.16** ✓

TASK 3: Florida Historical Marker

Project Manager	2	\$	70.00	\$	140.00
Senior Architectural Historian	23	\$	54.60	\$	1,255.80
Architectural Historian	50	\$	42.00	\$	2,100.00
Historical Technician	5	\$	22.64	\$	113.20
			Subtotal	\$	3,609.00
			Multiplier: 2.32	\$	8,372.88

DIRECT EXPENSES

Printing / Photocopies		65.00
Project Supplies		8.00
Telephone Expense		2.00
Express Mail		24.00
Total Direct Expenses - Task 2	\$	99.00

TOTAL LABOR & EXPENSES - TASK 3

\$ 8,471.88

TASK 4: Meetings and Coordination

POSITION	HOURS		RATE		TOTAL
Project Manager	2	\$	70.00	\$	140.00
Senior Architectural Historian	6	\$	54.60	\$	327.60
			Subtotal	\$	467.60
			Multiplier: 2.32	\$	1,084.83

DIRECT EXPENSES

Printing / Photocopies		6.00
Telephone Expense		12.00
Total Direct Expenses	\$	18.00

TOTAL LABOR & EXPENSES - TASK 4

\$ 1,102.83

TOTAL LABOR - TASK 1 to TASK 4:	\$	40,956.91
TOTAL EXPENSES - TASK 1 to TASK 4:	\$	2,856.96
TOTAL LABOR & EXPENSES - TASK 1 to TASK 4:	\$	43,813.87



**Janus Research
Scope of Work
HAER Documentation for the Twenty Mile Bend/Loxahatchee Bridge:
February 24, 2023**

Large Format Photography Expenses

Large Format Photography Supplies		
Archival Film	(\$170.00 per 50-pack) 1 pack required	\$ 170.00
4 x 5 Black & White Processing	\$4.50 per sheet print x 50	\$ 225.00
Contact Prints (4 per sheet)	\$12.95 each x 13	\$ 168.35
Loading film	Reloading film holders	\$ 50.00
Archival supplies		
Archival CDs	(\$4.99 per CD) 1 CD required	\$ 4.99
Archival Paper 11x17	\$64.50 per ream	\$ 64.50
Archival Paper 8.5x11	\$25.75 per ream	\$ 25.75
Photo Mount Cards	(\$42.00 per 100-pack) 1 packs required	\$ 42.00
Archival Negative Envelopes	(\$25.25 per 100-pack) 1 pack required	\$ 25.25
Vellum Plan Copies		\$ 435.00
Boat Rental		\$ 1,000.00
Shipping Costs		\$ 148.00
Subtotal for Supplies		\$ 2,358.84
	Add Sales Tax @ 7%	\$165.12
TOTAL - EXPENSES		\$ 2,523.96 ✓



ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE, JACKSONVILLE, FL 32210
PHONE (904) 384-8377 FAX (904) 384-8388
WWW. ARCSURVEYORS.COM

April 04, 2024 – Revised3

Simon Coleman, Ph.D., P.E.
Alan Gerwig & Associates, Inc.
12798 W. Forest Hill Blvd, Suite 201
Wellington, FL 33414
Phone: (561) 792-9000, ext. 215
Cell: (561) 543 4846
Fax: (561) 792-9901
scoleman@gm2inc.com

Re: Cost Proposal for Laser Scanning and Hydrographic Survey Services – CR 800 Bridge located in Palm, Beach County, FL.

Dear Mr. Coleman:

In response to your request for the subject cost proposal, the following is submitted for your consideration:

Bridge Survey: Arc will perform a Laser Scan and Hydrographic survey of the CR880 Bridge, located in Palm Beach County, Florida. Data collection will be completed utilizing a Riegl VZ-400 terrestrial laser scanner, which will provide 100% coverage of the survey area. Target registration process will be used during acquisition through RiSCAN PRO. Acquired data will be referenced to site control utilizing Trimble R10 RTK receivers. Hydrographic singlebeam soundings will be acquired to document seafloor conditions. Drone images and video will be taken to document the existing conditions of the structure.

DATUMS: The horizontal datum for this project shall be State Plane Coordinates, Florida East Zone, North American Datum 1983 (NAD83). The vertical datum shall be the North American Vertical Datum 1988, (NAVD88).

DELIVERABLES:

1. Specific locations will be modeled and provided in AutoCAD and Civil3D (2022 or earlier).
2. Point cloud information will be provided in a 3D Polyworks viewer.
3. Planview map will be provided showing all data collected during survey.

PROFESSIONAL FEES:

It is proposed to perform the above-mentioned survey as described herein for a lump sum amount of **\$ 23,456.56**

In addition to the above scope and fee a full 3D model of the bridge structure will be created utilizing terrestrial Laser scan data. This data will likely be in Civil 3d format or an equivalent thereof. Total Additional cost to generate this model will be **\$ 19,191.80**

Additional analysis/modeling that is not in the scope that may be required following review by the SHPO, etc., is offered as Optional Services on an hourly basis. The budget for this item is **\$ 5,282.38**

See attached rate sheets below for break down of fees. Daily and Hourly rate sheets attached for any work performed outside of this scope

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'John K. Maffett', is written over a horizontal line.

John K. Maffett, PSM
Vice President

LAND SURVEYORS-TOPOGRAPHERS-HYDROGRAPHERS-PRECISE CONTROL-GLOBAL POSITIONING-MAPPING-CONSULTANTS

BRIDGE NAME: CR 880 Bridge Bridge Number _____
 Consultant Name: Arc Surveying & Mapping, Inc.
 FIN No.: _____ Name of Job: _____

Estimators Name/Date: John K. Maffett, PLS 02/19/24

ACTIVITY	SUR Chief Surveyor		3-Man Survey Crew		2-Man Survey Crew		GIS Specialist		SUR Clerical		Misc Cost		MANHOURS BY ACTIVITY	SALARY COST BY ACTIVITY	AVG. HOURLY RATE
	MAN HOURS	HOURLY RATE	Crew HOURS	HOURLY RATE	Crew HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	CREW HOURS	DAILY RATE			
Mob Demob			16	275.06									16.00	4,400.96	275.06
Establish Control			8	275.06									8.00	2,200.48	275.06
Hydrographic Survey			8	275.06									8.00	2,200.48	275.06
Laser / UAV Survey			16	275.06									16.00	4,400.96	275.06
Data Processing							16	151.20					16.00	2,419.20	151.20
Mapping & Modeling							16	151.20					16.00	2,419.20	151.20
Project Manager	8	221.99											8.00	1,775.92	221.99
Clerical									8	79.92			8.00	639.36	79.92
Lodging and Per Diem											5	600.00	5.00	3,000.00	600.00
TOTAL M-H & TOTAL COST	8	1,775.92	48	13,202.88	0		32	4,838.40	8		0		96	23,456.56	244.34

TOTAL ITEM COST COMPUTATIONS

Total Activity Salary Costs		\$23,456.56
Overhead Additives:	%	
Home Overhead	0.00%	\$0.00
FCCM	0.00%	\$0.00
Direct Expenses	0.00%	\$0.00
Margin	%	
Complexity	0.00%	
Risk	0.00%	
Schedule	0.00%	
Cost Control	0.00%	
CDAF	0.00%	
Proposed Margin	0.00%	\$0.00
Subtotal		\$23,456.56
Subcontracted Expenses		\$0.00
Total Task (L.S.)		\$23,456.56

This includes one day of field survey and processing.
 (PLEASE SIGN) Prepared by: John K. Maffett

Date: 19-Feb-24

BRIDGE NAME: CR 880 Bridge Bridge Number _____
 Consultant Name: Arc Surveying & Mapping, Inc. Name of Job: _____
 FIN No.: _____

Estimators Name/Date: John K. Maffett, PLS 02/19/24

ACTIVITY	SUR Chief Surveyor		3-Man Survey Crew		2-Man Survey Crew		GIS Specialist		SUR Clerical		CREW HOURS	HOURLY RATE	MANHOURS BY ACTIVITY	SALARY COST BY ACTIVITY	AVG. HOURLY RATE
	MAN HOURS	HOURLY RATE	Crew HOURS	HOURLY RATE	Crew HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE					
Establish Control													0		
Hydrographic Survey													0.00		275.06
Laser Scan Survey													0.00		275.06
Data Processing													0.00		
Mapping & Modeling							120	151.20					120.00	18,144.00	151.20
Project Manager	4	221.99							2	79.92			6.00	1,047.80	221.99
Clerical													0.00		79.92
TOTAL M-H & TOTAL COST	4	887.96	0		0		120	18,144.00	2	159.84	0		126	19,191.80	152.32

TOTAL ITEM COST COMPUTATIONS

Total Activity Salary Costs		\$19,191.80
Overhead Additives:	%	
Home Overhead	0.00%	\$0.00
FCCM	0.00%	\$0.00
Direct Expenses	0.00%	\$0.00
Margin	%	
Complexity	0.00%	
Risk	0.00%	
Schedule	0.00%	
Cost Control	0.00%	
CDAF	0.00%	
Proposed Margin	0.00%	\$0.00
Subtotal		\$19,191.80
Subcontracted Expenses		\$0.00
Total Task (L.S.)		\$19,191.80

This includes one day of field survey and processing.

(PLEASE SIGN) Prepared by: John K. Maffett _____

Date: 19-Feb-24 _____

BRIDGE NAME: CR 880 Bridge Bridge Number _____
 Consultant Name: Arc Surveying & Mapping, Inc.
 FIN No.: _____ Name of Job: _____

Estimators Name/Date: John K. Maffett, PLS 02/19/24

ACTIVITY	SUR Chief Surveyor		3-Man Survey Crew		2-Man Survey Crew		GIS Specialist		SUR Clerical		Misc Cost		MANHOURS BY ACTIVITY	SALARY COST BY ACTIVITY	AVG. HOURLY RATE
	MAN HOURS	HOURLY RATE	Crew HOURS	HOURLY RATE	Crew HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	CREW HOURS	DAILY RATE			
Mob Demob				275.06									0.00		
Establish Control				275.06									0.00		275.06
Hydrographic Survey				275.06									0.00		275.06
Laser / UAV Survey				275.06									0.00		275.06
Data Processing								151.20					0.00		
Mapping & Modeling							32	151.20					32.00	4,838.40	151.20
Project Manager	2	221.99											2.00	443.98	221.99
Clerical										79.92			0.00		79.92
Lodging and Per Diem												600.00	0.00		600.00
TOTAL M-H & TOTAL COST	2	443.98	0		0		32	4,838.40	0		0		34	5,282.38	155.36

TOTAL ITEM COST COMPUTATIONS

Total Activity Salary Costs		\$5,282.38
Overhead Additives:	%	
Home Overhead	0.00%	\$0.00
FCCM	0.00%	\$0.00
Direct Expenses	0.00%	\$0.00
%		
Margin		
Complexity	0.00%	
Risk	0.00%	
Schedule	0.00%	
Cost Control	0.00%	
CDAF	0.00%	
Proposed Margin	0.00%	\$0.00
Subtotal		\$5,282.38
Subcontracted Expenses		\$0.00
Total Task (L.S.)		\$5,282.38

This includes one day of field survey and processing.

(PLEASE SIGN) Prepared by: John K. Maffett

Date: 4-Apr-24

OEBO SCHEDULE 1

SOLICITATION/PROJECT/BID NAME: CR 880 Bridge Replacement

SOLICITATION/PROJECT/BID NO.: 2015500

SOLICITATION OPENING/SUBMITTAL DATE: June 18, 2019

COUNTY DEPARTMENT: Roadway Production Division

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Alan Gerwig & Associates, Inc.

ADDRESS: 12798 W. Forest Hill Blvd. Suite 201 Wellington, FL 33414

CONTACT PERSON: Alan Gerwig, P.E.

PHONE NO.: 561-792-9000

E-MAIL: agerwig@gm2inc.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$30,534.30

*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE	MBE	WBE	SBE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE	WBE	SBE	Black	Hispanic	Women	Caucasian	Asian	Other
		Minority Business	Women Business	Small Business						
1. HSQ Group, LLC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				\$62,491.11		
2. Tierra South Florida, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					\$21,695.00	
3. Janus Research, Inc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				\$43,813.87		
4. Arc Surveying & Mapping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				\$47,930.74		
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

(Please use additional sheets if necessary)

Total Bid/Offer Price \$	<u>206,465.02</u>	Total Certified S/M/WBE Participation \$	<u>21,695.00</u>
		Total	<u>\$184,770.02</u> <u>\$21,695.00</u>

I hereby certify that the above information is accurate to the best of my knowledge: Alan Gerwig  Vice President

Name & Authorized Signature Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation opening or due date are eligible to meet the established OEBO Affirmative Procurement initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2015500

SOLICITATION/PROJECT NAME: CR 880 Bridge Replacement

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: HSQ Group, LLC

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Basic Roadway Services	1	1	0	\$12,225.68
2	Basic Surveying Services	1	1	0	\$19,873.55
3	Optional Roadway Services	1	1	0	\$30,391.88

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$62,491.11

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: _____

Name of 2nd/3rd tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.

Print Name of Prime

By: [Signature]
Authorized Signature

Alan Gerwig, P.E.

Print Name

Vice President

Title

Date: 07/19/2024

HSQ Group, LLC

Print Name of Subcontractor/subconsultant

By: [Signature]
Authorized Signature

Nour Shehadeh, PE

Print Name

Managing Member

Title

Date: 7/23/2024

OEBO LETTER OF INTENT - SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2015500

SOLICITATION/PROJECT NAME: CR 880 Bridge Replacement

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Janus Research, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION - S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	MoA Mitigation Measures & State Historical Marker				\$43,813.87

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$43,813.87

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: _____

Name of 2nd/3rd tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.

Print Name of Prime

By: [Signature]

Authorized Signature

Alan Gerwig, P.E.

Print Name

Vice President

Title

Date: 07/19/2024

Janus Research, Inc.

Print Name of Subcontractor/subconsultant

By: [Signature]

Authorized Signature

Kenneth Hardin

Print Name

President

Title

Date: August 9, 2024

OEBO LETTER OF INTENT - SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2015500
 SOLICITATION/PROJECT NAME: CR 880 Bridge Replacement

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Arc Surveying & Mapping

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION - S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Professional Services: 3D Scan & Model of Existing Bridge				\$47,930.74

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$47,930.74

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: _____

Name of 2nd/3rd tier Subcontractor/subconsultant _____

Alan Gerwig & Associates, Inc.

Print Name of Prime

By: [Signature]
 Authorized Signature

Alan Gerwig, P.E.
 Print Name

Vice President
 Title

Date: 07/19/2024

Arc Surveying & Mapping

Print Name of Subcontractor/subconsultant

By: [Signature]
 Authorized Signature

Frank J. Sawyer
 Print Name

President
 Title

Date: 7/19/2024

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2015500
 SOLICITATION/PROJECT NAME: CR 880 Bridge over SFWMD C-51 Canal Bridge Replacement

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Tierra South Florida, Inc

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10/19/21-10/18/24

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input checked="" type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	<input type="checkbox"/> Supplier

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Geotechnical Engineering Services				\$21,695.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$21,695.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: _____
 Name of 2nd/3rd tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc

Print Name of Prime

By: _____
 Authorized Signature

Alan Gerwig

Print Name

Vice President

Title

Date: 8/27/2024

Tierra South Florida, Inc

Print Name of Subcontractor/subconsultant

By: _____
 Authorized Signature

Raj Krishnasamy, P.E.

Print Name

President

Title

Date: 8/27/2024

PROJECT HISTORY

CR880 Bridge over C-51 Canal					
Project# 2015500					
Authorization	Supplement	Date Approved	Total Amount	SBE Amount	SBE %
BCC	Original Contract	7/5/15	\$ 543,612.43	\$ 512,759.18	94.32%
CRC	Supplement # 1	3/18/20	\$ 56,280.27	\$ 56,280.27	100.00%
Lead	Supplement # 2	6/10/20	\$ 45,198.00	\$ 45,198.00	100.00%
BCC	Supplement # 3	Pending	\$ 206,465.02	\$ 21,695.00	10.50%
Project Totals			\$ 851,555.72	\$ 635,932.45	74.67%