

CONSULTANT WORK ORDER

Date:	01/25/2024
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1. PROJECT INFORMATION:

Project Title:	Air Park Asphalt Resurfacing	
City Project Number:	23-0014-AP	
City Plan Set Number:	2023020	
Consultant Project Number:	CLW23001	

2. SCOPE OF SERVICES:

The owner wishes to rehabilitate Aprons and Taxilanes identified as “poor” or “very poor” condition in the 2022 Statewide Airfield Pavement Management Program. American Infrastructure Development, Inc. (AID) will provide design, bidding, and award services. Deliverables will include 100% design documents to issue to contractors for bidding purposes. Additional optional services have been included in this design such as “Fair” condition Taxiways that will be evaluated for rejuvenation in accordance with the AIP Handbook, as well as an expansion of the North Apron to facilitate future construction improvements. Electrical design or layout has not been included in this proposal. Areas included in the scope of work have been identified on the attached supplemental exhibit and as describe below:

Base Bid: Professional Services Tasks I thru V for the Hangar Taxilane Rehabilitation identified in the FDOT Statewide Airport Pavement Management Program as TL T-Hang in Poor Condition (PCI 41-55)

Bid Additive 1: Professional Services Tasks I thru V for the Center Taxilane rehabilitation and re-alignment of the taxilane identified in the FDOT Statewide Airport Pavement Management Program as TL Center in Poor Condition (PCI 41-55)

Bid Additive 2: Professional Services Tasks I thru V for the North Apron rehabilitation for the apron identified in the FDOT Statewide Airport Pavement Management Program as Apron N in Very Poor Condition (PCI 26-40)

CONSULTANT WORK ORDER

Air Park Asphalt Resurfacing

American Infrastructure Development, Inc. 23-0014-AP

City of Clearwater

Bid Additive 3: Optional Services Task 6.5 to remove and re-apply sealcoat as necessary for the Taxilanes identified in the T-Hangar areas and in areas along Taxiway A, A2, and A3 in fair condition (PCI 56-70)

Bid Additive 4: Optional Services Task 6.6 to expand Apron N to the north to accommodate future hangar construction.

I. PRE-DESIGN PHASE:

Task 1.1: Compile and Review Project Related Documents

Task 1.2: Perform Field Inspection

Task 1.3 Pre-Design Meeting and General Coordination

II. DESIGN PHASE (30%, 60%, 90%):

Task 2.1: Specifications

Task 2.2a: Hangar Taxilane Rehabilitation

Task 2.2b: North Apron Rehabilitation

Task 2.2c: Center Taxilane Rehabilitation and Re-Alignment

Task 2.3: Internal Meetings/Team Coordination/Quality Review

Task 2.4: Cost Estimates

Task 2.5: Prepare and Submit Design Documents

Task 2.6: General Coordination with Owner

III. FINAL DESIGN PHASE (100%):

Task 3.1: Incorporate Final 90% Review Comments

Task 3.2: Prepare and Submit Final Project Documentation

IV. BIDDING PHASE:

Task 4.1: Coordinate with Owner

Task 4.2: Respond to Bidder Questions

Task 4.3: Prepare Documents for Addendum

Task 4.4: Attend and Participate in a pre-bid meeting

V. CONSTRUCTION PHASE

Task 5.1: Owner and Tenant Coordination

Task 5.2: Pre-Construction Conference

Task 5.3: Shop Drawing Review

- Task 5.4a: Taxilane Weekly Remote/Virtual Construction meetings (up to 12 Weeks)
- Task 5.4b: Apron Weekly Remote/Virtual Construction Meetings (4 Additional)
- Task 5.5a Taxilane Site Visits and Field Coordination (6 Visits Total)
- Task 5.5b Apron Site Visits (2 Additional)
- Task 5.6 Assist in preparing routine change orders
- Task 5.7a Review Taxilane test results provided by the contractor
- Task 5.7b Review Apron test results provided by the contractor
- Task 5.8a Review Contractor's Taxilane monthly pay applications
- Task 5.8b Review Contractor's Apron monthly pay application
- Task 5.9a Respond to Taxilane RFI's
- Task 5.9b Respond to Apron RFI's
- Task 5.10 Substantial Completion Walk through, Closeout, and Punchlist

VI. OPTIONAL SERVICES

- Task 6.1: Airspace Analysis for Temporary Construction Activities
- Task 6.2: Prepare and Submit Construction Safety and Phasing Plan (CSPP)
- Task 6.3: Stormwater Pond Modifications for New Impervious Area
- Task 6.4 Supplemental Geotechnical and Survey Support
- Task 6.5 Sealcoat Design and Construction Administration Services for "Fair" Condition Taxiways
- Task 6.6 Apron Expansion to accommodate a future hangar construction

3. PROJECT GOALS:

Task I – Pre-Design and Due Diligence

The Consultant will perform the following tasks under this phase:

1. Determine the number and locations of soil borings.
2. Compile and review project related documents.
3. Perform a Field Inspection, review contractor provided as-builts, and prepare record drawings
4. Coordinate and attend a pre-design Kick-Off meeting with the owner and tenants on project challenges such as design alternatives, project phasing, construction staging, budget, and schedule.

CONSULTANT WORK ORDER

Air Park Asphalt Resurfacing

American Infrastructure Development, Inc. 23-0014-AP

City of Clearwater

5. Evaluate Pavement Alternatives for the Taxilanes and Apron and document findings in a technical memorandum.
8. Prepare a preliminary construction schedule considering weather and air traffic conditions.
9. Prepare initial cost estimate memorandum for Taxilanes and Apron along each submittal
10. Provide geometric layout for future taxilane located to the north of the Center Taxilane to ensure that no clearances or protection zones are violated.

Deliverables: The Project Team will submit electronic PDF copies of the program verification report to the owner and attend one review meeting to go through taxiway alternatives.

One (1) site visit is included during this phase for a project manager to visit the site and meet with the City project manager, Marine and Aviation Director and the Operations Manager.

Task II – Design Phase

The Project Team will proceed with the design and plans production as soon as a notice-to-proceed is issued by the City. Specifically, the following tasks will be performed under this phase:

1. Prepare Technical Specifications
2. Preliminary pavement design
3. Preliminary phasing analysis
4. Prepare contract drawings
5. Prepare construction cost estimates
6. Prepare construction schedule
7. Prepare Preliminary Engineer's Report

Deliverables: The Project Team will submit electronic PDF copies of contract drawings and the Preliminary Engineer's Report to the City for review. Deliverables will be reviewed with the City Staff and the Airport. Also see City Deliverables last page of work order.

Task III: Final Contract Documents

Upon receipt of final comments from the Owner, the Project Team will proceed with the preparation of the bidding documents. This effort includes the preparation of construction drawings, project manual (front-end documents, general provisions, and technical specifications), Engineer's Report, construction cost estimate, Construction Safety and Phasing Plan, and construction schedule.

CONSULTANT WORK ORDER

Air Park Asphalt Resurfacing

American Infrastructure Development, Inc. 23-0014-AP

City of Clearwater

The Project Team will submit two (2) bound signed and sealed copies of (24" x 36") of the 100% contract documents to the City and reproduce a digital copy for distribution during the bidding phase.

Task IV: Bidding and Award Services

This phase will include the effort necessary to advertise for and receive bids from contractors, and to review the bids and make a recommendation of award to the City and FDOT.

The following tasks will be performed by the Project Team during this phase:

1. Distribute bidding documents to the prospective bidders and plan rooms
2. Prepare for and attend the Pre-Bid Conference
3. Prepare agenda and document meeting minutes
4. Address questions from bidders
5. Revise contract documents and issue Addenda
6. Attend the Bid opening
7. Review all bids for responsiveness and accuracy
8. Prepare Bid Tabulation Sheet(s)
9. Make recommendation for the award of the contract
10. Prepare Conformed Contracts

Task V – Construction Administration Services will be provided by AID for both the Apron and Taxilane Areas. AID will perform the following tasks under this phase:

1. Coordinate with the Owner, tenants, and project team members throughout the duration of procurement, construction, and closeout of the project.
2. Prepare for and participate in a pre-construction conference.
3. Review and approve or take other appropriate action upon review of the shop drawings, samples, and other submissions furnished by the Contractor and submitted to AID. AID shall determine if the shop drawings, samples, and other submissions reasonably conform to the design of the project and the requirements of the contract documents. Such action(s) shall be taken with reasonable promptness so that the progress of the construction of the project will not be delayed. AID will maintain a log of all Contractor submittals, which shall include the submittal date, the action taken, and the date returned to the Contractor.
4. Prepare for and participate in weekly remote construction meetings. AID will prepare the meeting agenda and record meeting minutes for each meeting. AID will have one on-site representative at the construction meetings and additional personnel via teleconference as needed.

CONSULTANT WORK ORDER

Air Park Asphalt Resurfacing

American Infrastructure Development, Inc. 23-0014-AP

City of Clearwater

5. Perform periodic site visits and inform the Owner of any deviation from the contract documents or the Contractor's construction schedule observed by or brought to the attention of AID. On the basis of its on-site observations, AID will keep the Owner informed as to the progress and quality of the work and will endeavor to protect the Owner against defects and deficiencies in the work completed by the Contractor. However, AID shall not have control or be in charge of and shall not be responsible for construction means, methods, techniques, sequences, or procedures or for the safety precautions and programs in connection with the project construction. Further, AID will notify the Owner of any such act, omission, or failure on the part of the Contractor observed by AID during on-site visits.
6. Assist in preparing routine change orders and assess the justification for such change orders, as required.
7. Review test results provided by the Contractor and the Owner.
8. Review Contractor's monthly applications for payment and supporting data; review the amount owed to Contractor and approve in writing payments to Contractor in accordance with the contract documents, and review and coordinate weekly certified payrolls with the Airport.
9. Provide design clarifications and recommendations to assist the Owner in resolving field problems relating to construction. AID will receive, review, and respond to all the Contractor Requests for Information (RFI's) and issue clarification as necessary through Engineer's Supplemental Instructions (ESI's).
10. Perform, together with the Owner, up to two (2) pre-completion inspections of the construction site to determine if the project is substantially complete, develop a punch list, and perform one (1) final inspection to determine if the project has been completed in accordance with the contract documents, and if each contractor has fulfilled all of its obligations thereunder, so that AID may approve in writing, if applicable, final payment to the Contractor.
11. Assist in receiving from the Contractor, and forwarding to the Owner, written warranties, and related documents assembled for the project.

To avoid misunderstandings, AID understands and agrees that the Owner shall have responsibility for the general administration of the construction contract. Accordingly, AID shall not have the authority or responsibility to issue direct instructions to the Contractor on work stoppage authorizations that are contractually obligated to the Owner, or to require special inspections and/or tests. However, AID shall provide continuing counsel to the Owner throughout the construction of the project.

Task VI – In addition to the Basic Services described above, the Project Team will provide the following special services required under this contract:

1. Airspace Checklist – Obstruction Evaluation / Airport Airspace Analysis (OE/AAA) documentation will be filed for the temporary construction of the facilities. The Project team will prepare one (1) exhibit and submit up to 6 points to the

- OE/AAA portal to identify project limits, staging areas and haul routes that will be needed for the project.
2. A Construction Safety and Phasing Plan (CSPP) will be developed and submitted to the FAA through the OE/AAA portal for approval.
 3. Stormwater Pond Modifications to account for additional impervious.
 4. Supplemental Geotechnical Investigations and Field Survey – the City of Clearwater has contracted with others to perform necessary geotechnical investigations and survey for the site, however additional soil borings or specific survey features may be needed to supplement the new design elements.
 - a. Portions of the Airpark property operated as a trench and fill landfill in the 1950s. Geotechnical and environmental engineering study will need to be completed to address possible impacts of buried debris on site development. Disturbance of buried landfill debris to be managed under FDEP guidelines.
 - b. Pond locations for new impervious areas are not known at this time and additional pond borings or permeability rates may need to be obtained once the pavement area has been designed.
 5. Bid Additive 3 – Includes elements for tasks I thru V above for the additional design related to sealing of taxilane pavement that is in fair condition.
 6. Bid Additive 4 - Includes elements for tasks I thru V above for the additional design associated with expanding the existing north apron to accommodate a future hangar.

4. FEES:

See Attachment "A".

This price includes all labor and expenses anticipated to be incurred by American Infrastructure Development, Inc. for the completion of these tasks in accordance with Professional Services Method "B" – Lump Sum – Percentage of Completion by Task, for a fee not to exceed Three Hundred Sixteen Thousand, and One Hundred Fifty Four Dollars and zero cents (\$316,154).

AID will prepare permit submittals and obtain pricing from permit agencies for the City to issue a check for direct costs.

5. SCHEDULE:

The project is to be completed in 7 months from issuance of notice-to-proceed. The project deliverables are to be phased as follows:

Program Verification Report	45 calendar days
30% Construction Plans:	30 calendar days
60% Progress Submittal	60 calendar days
90% Construction Plans:	20 calendar days
Final Construction Documents:	15 calendar days
Bidding and Award Phase	45 calendar days

6. STAFF ASSIGNMENT:

Kyle Holley, PE – Project Manager (AID)

Michael Cummings, BSCE – Construction Administrator (AID)

Kevin Knowles, PE – Drainage, Utilities, Permitting (AID)

Joseph Clark – CAD Design

7. CORRESPONDENCE/REPORTING PROCEDURES:

Consultant's project correspondence shall be directed to:

Kyle Holley, PE

813-426-4515

KHolley@AIDinc.us

All City project correspondence shall be directed to:

Philopateer Hanna – 727-224-7457

philopateer.hanna@myclearwater.com

Cc: Michael MacDonald, Marine and Aviation Director – 727-224-7005

michael.mcdonald@myclearwater.com

Cc: William Hodgson, Marine and Aviation Operations Manager – 727-444-7692

william.hodgson@myclearwater.com

8. INVOICING/FUNDING PROCEDURES:

City Invoicing Code: 3027302-565000-G2306

For work performed, invoices shall be submitted monthly to:

Attention: Aaron Braley, Controller

City of Clearwater, Marine and Aviation Department

25 Causeway Blvd

Clearwater, FL, 33767

Aaron.braley@myclearwater.com

Contingency services will be billed as incurred only after written authorization provided by the City to proceed with those services.

9. INVOICING PROCEDURES:

At a minimum, in addition to the invoice amount(s) the following information shall be provided on all invoices submitted on the Work Order:

1. Purchase Order, Project and Invoice Numbers and Contract Amount.
2. The time period (begin and end date) covered by the invoice.
3. A short narrative summary of activities completed in the time period.

CONSULTANT WORK ORDER

Air Park Asphalt Resurfacing

American Infrastructure Development, Inc. 23-0014-AP

City of Clearwater

4. Contract billing method – Lump Sum or Hourly Rate.
5. If Lump Sum, the percent completion, amount due, previous amount earned and total earned to date for all tasks (direct costs, if any, shall be included in lump sum amount).
6. If Hourly Rate, hours, hourly rates, names of individuals being billed, amount due, previous amount earned, the percent completion, total earned to date for each task and other direct costs (receipts will be required for any single item with a cost of \$50 or greater or cumulative monthly expenses greater than \$100).
7. If the Work Order is funded by multiple funding codes, an itemization of tasks and invoice amounts shall be broken out by funding code.

10. CONSIDERATIONS:

Consultant acknowledges the following:

1. The Consultant named above is required to comply with Section 119.0701, Florida Statutes, where applicable.
2. All City directives shall be provided by the City Project Manager.
3. "Alternate equals" shall not be approved until City Project Manager agrees.
4. All submittals must be accompanied by evidence each has been internally checked for QA/QC before providing to City.
5. Consultants/Contractors are not permitted to use City-owned equipment (i.e. sampling equipment, etc.).
6. PDF Documents posted on City website must ADA accessible.

11. ADDITIONAL CONSIDERATIONS:

All work orders should include considerations for the following:

1. Sea Level Rise and Flood Resilience, as applicable.
2. Submittal of a Critical Path Method (CPM) Schedule(s).
3. Submittal of a Project Catalog with the following items, as appropriate:
 - a. Data requests, assumptions, critical correspondence, meeting agenda, sign-in sheets, meeting minutes, document comment-response log(s), technical memorandum/reports, addenda, progress reports, regulatory correspondence, and other project-related documents.
 - b. If construction project, also include design plans, conformed plans, change orders, field orders, RFIs, work change directives, addenda, progress reports, shop drawing and progress submittals, as-builts, record drawings, and other project-related documents such as O&M manuals and warranty information.
 - c. At the conclusion of the project, ENGINEER will combine this information into a Project Catalog and submit to the City for review and comment.

CONSULTANT WORK ORDER

Air Park Asphalt Resurfacing

American Infrastructure Development, Inc. 23-0014-AP

City of Clearwater

4. Arc Flash labeling requirements:

- a. All electrical designs and construction shall adhere to NFPA 70 E "Standard for Electrical Safety in the Workplace".
- b. Updated calculations of Fault and Arc Flash, and provisions for new or updated Arc Flash equipment labeling shall be included in the contract documents.

12. SPECIAL CONSIDERATIONS:

A fee proposal for Construction Administration Services has been included, but it is anticipated that this will be executed under separate NTP depending on the contract portion (portions) that are awarded.

13. SIGNATURES:

PREPARED BY:

APPROVED BY:



Sabina C. Mohammadi
President/CEO
American Infrastructure Development, Inc.

Tara Kivett, P.E.
City Engineer
City of Clearwater


Date

Date

ATTACHMENT "A"**CONSULTANT WORK ORDER – PROJECT FEES TABLE**

Air Park Asphalt Resurfacing

AID, Inc.

23-0014-AP

City of Clearwater

CONSULTANT WORK ORDER

PROJECT FEES TABLE

Task	Description	Subconsultant Services	Labor	Total
1.0	Pre-Design			
1.1	Review Project Documentation		\$2,808	\$2,808
1.2	Perform a Field Inspection		\$1,626	\$1,626
1.3	Pre-Design Meeting and Coord.		\$4,708	\$4,708
1.4	Future Taxilane Layout		\$4,416	\$4,416
Pre-Design Total:				\$13,558.00
2.0	Design			
2.1	Specifications		\$2,225	\$2,225
2.2a	Base Bid - Taxiways in Poor Cond.		\$35,856	\$35,856
2.2b	Bid Add 1 – Re-align Center T/L		\$40,555	\$40,555
2.2c	Bid Add 2 – North Apron Rehab		\$20,721	\$20,721
2.3	Internal Meetings and Coord.		\$5,918	\$5,918
2.4	Cost Estimates		\$2,984	\$2,984
2.5	Prepare and Submit Design Docs		\$5,946	\$5,946
2.6	Owner Coordination		\$12,734	\$12,734
Design Total:				\$126,939.00
3.0	Final Design Plans and Specifications			
3.1	Incorporate review comments		\$11,164	\$11,164
3.2	Prepare and submit final design		\$5,705	\$5,705
Final Design Plans and Specifications Total:				\$16,869.00
4.0	Bidding and Award			
4.1	Coordinate with Owner		\$3,020	\$3,020
4.2	Respond to Bidders questions		\$1,834	\$1,834
4.3	Prepare Addendum Documents		\$2,142	\$2,142
4.4	Attend Pre-Bid Meeting		\$572	\$572
Permitting Services Total:				\$7,568.00
5.0a	Construction Phase Services - Taxilane			
5.1	Owner and Tenant Coordination		\$1,184	\$1,184
5.2	Pre-Construction Conference		\$1,612	\$1,612
5.3	Shop Drawing Review		\$1,184	\$1,184
5.4a	12 Weekly Remote Meetings		\$10,430	\$10,430
5.5a	6 Site Visits and Field Coordination		\$8,754	\$8,754

ATTACHMENT "A"**CONSULTANT WORK ORDER – PROJECT FEES TABLE**

Air Park Asphalt Resurfacing

AID, Inc.

23-0014-AP

City of Clearwater

5.6a	Change Order preparation		\$1,224	\$1,224
5.7a	Review Test Results		\$1,626	\$1,626
5.8a	Review Monthly Pay Applications		\$1,146	\$1,146
5.9a	Respond to RFI's		\$5,662	\$5,662
5.10	Substantial (2)/Final (1) Completion/Punchlist		\$2,992	\$2,992
Construction Phase Services Total:				\$35,814.00
5.0b	Construction Phase Services - Apron			
5.4b	4 Additional Meetings		\$1,980	\$1,980
5.5b	2 Additional Site Visits		\$3,190	\$3,190
5.7b	Review Additional Test Results		\$449	\$449
5.8b	Review 1 additional Pay App		\$488	\$488
5.9b	Respond to RFI's		\$1,227	\$1,227
Construction Phase Services Total:				\$7,334.00
SUBTOTAL, LABOR, AND SUB-CONTRACTORS:				
6.0	Optional Services			
6.1	Airspace Analysis		\$2,564	\$2,564.00
6.2	Prepare and Submit CSPP		\$4,850	\$4,850.00
6.3	Stormwater Modifications		\$26,078	\$26,078
6.4	Supplemental Geo and Survey	\$5,000		5,000
6.5	Bid Add 3 – T/W Rejuvenation		\$14,214	\$14,214
6.6	Bid Add 4 – Apron Expansion		\$26,366	\$26,366
Optional Services Total:				\$79,072.00
	Subtotal			\$287,154.00
7.0	10% Allowance			\$29,000.00
8.0	Other Direct Costs (prints, photocopies, postage, etc.) (Not applicable to lump sum Work Orders)			N/A
GRAND TOTAL:				\$316,154.00

CONSULTANT WORK ORDER

CITY DELIVERABLES

1. FORMAT:

The design plans shall be compiled utilizing the following methods:

1. City of Clearwater CAD standards.
2. Datum: Horizontal and Vertical datum shall be referenced to North American Vertical Datum of 1988 (vertical) and North American Datum of 1983/90 (horizontal). The unit of measurement shall be the United States Foot. Any deviation from this datum will not be accepted unless reviewed by City of Clearwater Engineering/Geographic Technology Division.

2. DELIVERABLES:

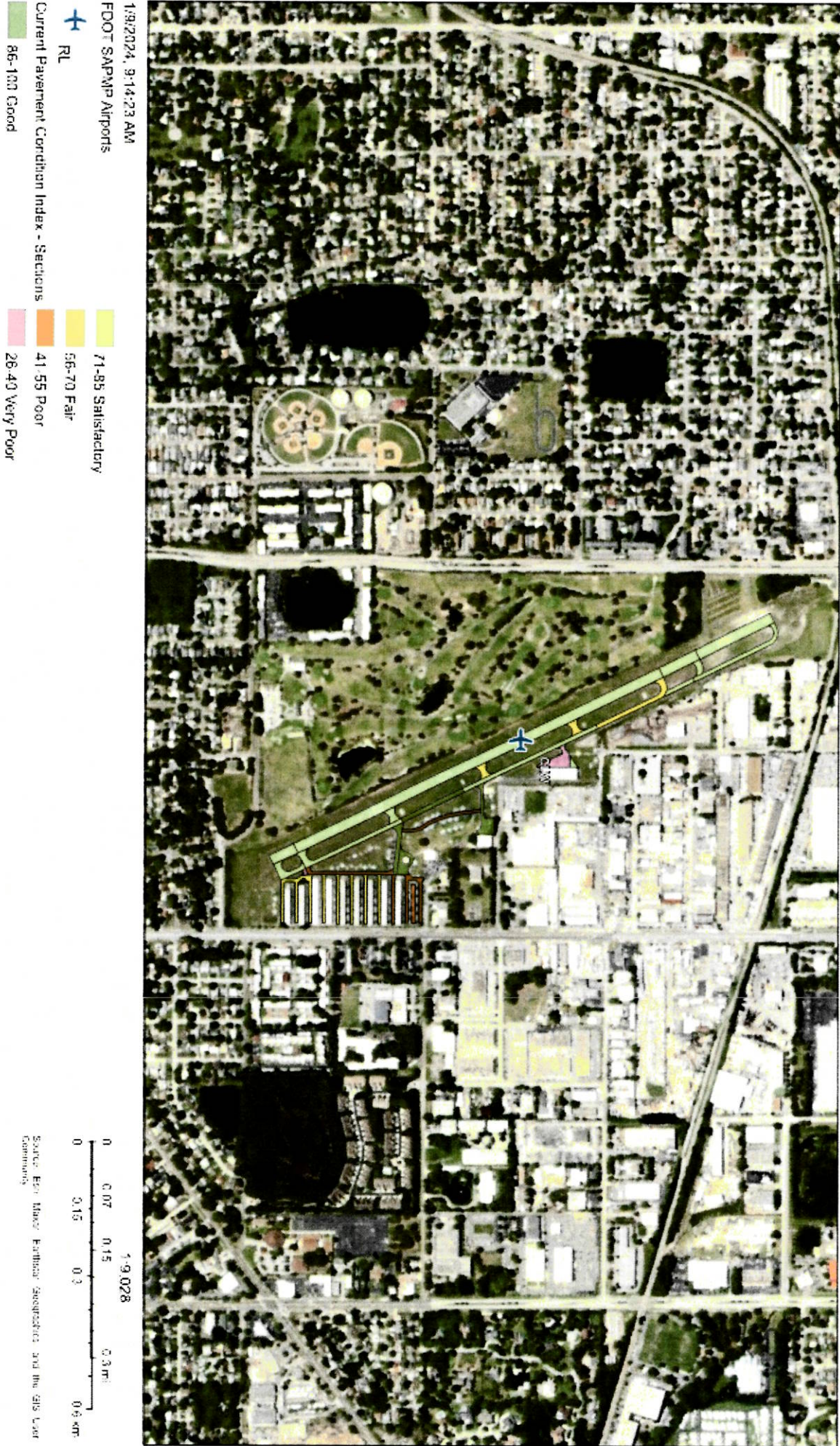
The design plans shall be produced on bond material, 24" x 36" at a scale of 1" = 20' unless approved otherwise. Upon completion the consultant shall deliver all drawing files in digital format with all project data in Autodesk Civil 3D file format.

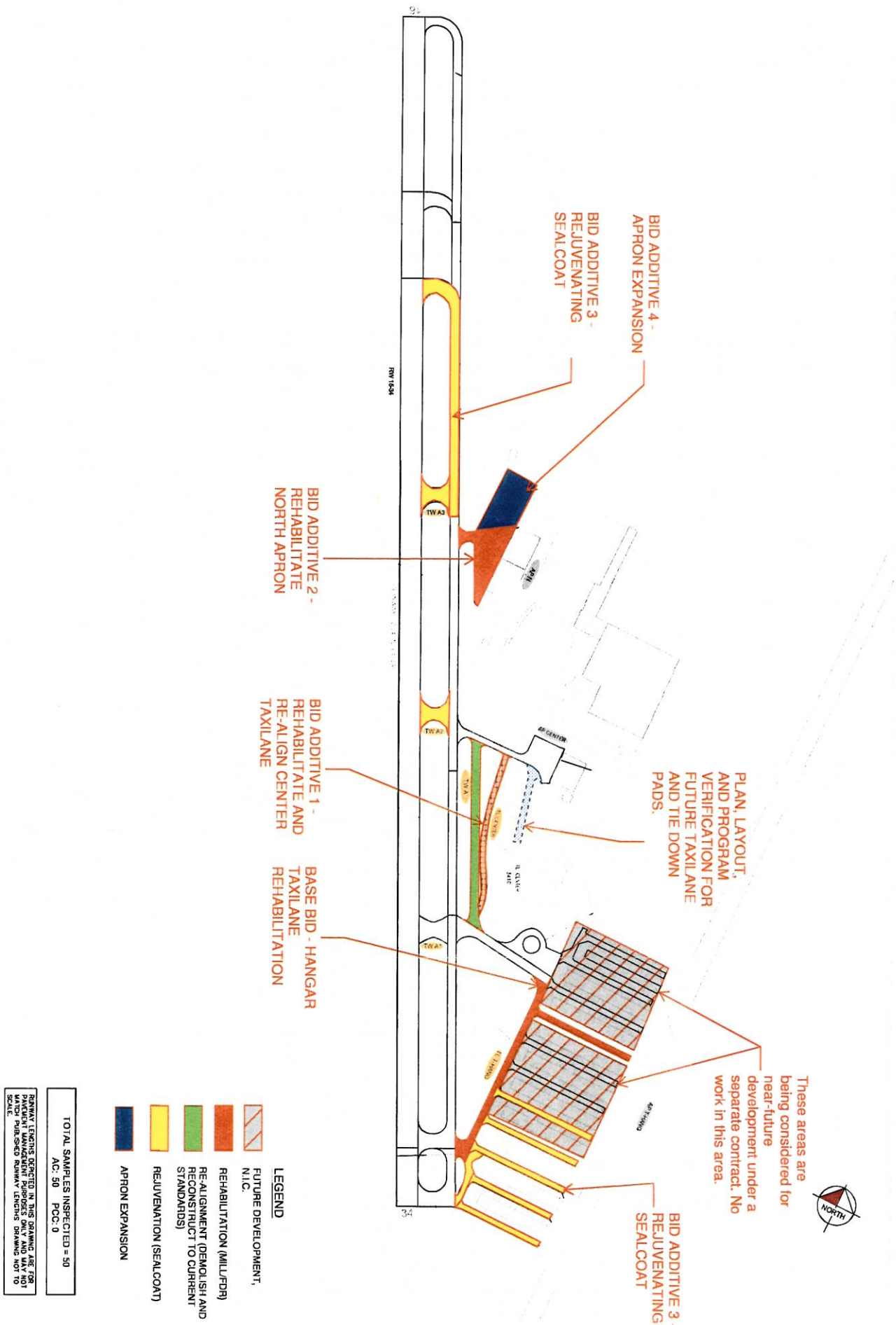
NOTE: If approved deviation from Clearwater CAD standards is used, the Consultant shall include all necessary information to aid in manipulating the drawings including either PCP, CTB file or pen schedule for plotting. The drawing file shall include only authorized fonts, shapes, line types or other attributes contained in the standard release of Autodesk software. All block references and other references contained within the drawing file shall be included. Please address any questions regarding format to Mr. Thomas Mahony, at (727) 562-4762 or email address

Thomas.Mahony@myClearwater.com.

All electronic files (including CAD and Specification files) must be delivered upon completion of project or with 100% plan submittal to City of Clearwater.

FDOT SAPMP Interactive Application - Print





Clearwater Airpark
Clearwater, FL
Apron and Taxiway Reconstruction



TASK	Totals
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Basic Services (Lump Sum)

I. Pre-Design and Due Diligence	\$13,558.00
II.a. SCHEMATIC DESIGN (30%)	\$29,973.00
II.b. PROGRESS SUBMITTAL (60%)	\$37,054.00
II.c. DESIGN DEVELOPMENT (90%)	\$59,912.00
III. Contract Documents (100%)	\$16,869.00
IV. Bidding and Award	\$7,568.00
V.a. Taxiway Construction Administration Services	\$35,814.00
V.b. Apron Construction Administration Services	\$7,334.00

Total Basic Services (Design and Construction Administration)	\$208,082.00
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Optional Services

1 Airspace Analysis	\$2,564.00
2 Prepare and Submit CSPP	\$4,850.00
3 Stormwater Pond Modifications	\$26,078.00
4 Supplemental Geotechnical and Survey Support	\$5,000.00
5 Bid Additive 3 - Taxiway Rejuvenation for "Fair Condition"	\$14,214.00
6 Bid Additive 4 - Apron Expansion Design	\$26,366.00

Total Special Services:	\$79,072.00
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*AID will prepare permit submittals for the City to prepare a check for direct costs

Subtotal Fees (Basic and Special Services):	\$287,154.00
10% Contingency	\$29,000.00
TOTAL FEE PROPOSAL	\$316,154.00

Clearwater Airpark Clearwater, FL Apron and Taxiway Reconstruction		Project Manager	Senior Engineer	Engineer	Senior Designer	Designer	Clerical	Totals
		\$221.00	\$182.00	\$143.00	\$117.00	\$97.00	\$85.00	
I. Pre-Design and Due Diligence								
1	Compile and Review Project related Documents		4	8	8			20
2	Perform a Field Inspection	4		4			2	10
3	Pre-Design Meeting and General Coordination	8	8	8			4	28
4	Future Taxiway Layout	8		8		12	4	32
Total Labor Hours:		20	12	28	8	12	10	90
Total Labor Costs:		\$4,420.00	\$2,184.00	\$4,004.00	\$936.00	\$1,164.00	\$850.00	\$13,558.00
II.a. SCHEMATIC DESIGN (30%)								
1a	Base Bid - Hangar Taxiway							
	G-001 Cover Sheet					1	1	2
	G-002 Haul Route and Abbreviations			1	1	1	1	4
	G-003 General Notes Plan		1		2		2	5
	C-120 Construction Safety and Phasing Plans		1	4		4		9
	C-150 Staking and Demolition Plans		2			8		10
	C-160 Asphalt Paving Plans		2			8		10
	C-400 Erosion Control and Stormwater Management			2		6		8
1b	Bid Additive 1 - Center Taxiway Re-Alignment							
	G-001 Cover Sheet					1	1	2
	G-002 Haul Route and Abbreviations			1	1		1	3
	G-003 General Notes Plan		1		2		2	5
	C-120 Construction Safety and Phasing Plans		1	4		4		9
	C-150 Staking and Demolition Plans		2	2	4	8		16
	C-160 Asphalt Paving Plans		2	8	16	16		42
	C-400 Erosion Control and Stormwater Management			4		6		10
1c	Bid Additive 2 - North Apron Rehab							
	C-120 Construction Safety and Phasing Plans		1	2				3
	### Staking and Demolition Plans		2	2	4	8		16
	C-160 Asphalt Paving Plans		2	4	4	6		16
	### Erosion Control and Stormwater Management			4		6		10
2	Internal Meetings/Team Coordination/Quality Review	2	8				4	14
3	Conceptual Cost Estimate		4			8		12
4	Prepare and Submit 30% Documents, PDF			6		8	4	18
5	General Coordination with Owner	4	8				8	20
Total Labor Hours:		6	37	44	34	99	24	244
Total Labor Costs:		\$1,326.00	\$6,734.00	\$6,292.00	\$3,978.00	\$9,603.00	\$2,040.00	\$29,973.00
II.b. PROGRESS SUBMITTAL (60%)								
2a	Base Bid - Hangar Taxiway							
	C-150 Staking and Demolition Plans		1	1	8	12		22
	C-160 Asphalt Paving Plans		1	2	4	12		19
	C-400 Erosion Control and Stormwater Management			1		2		3
	C-401 Grading Plans		1	12	16	20		49
2b	Bid Additive 1 - Center Taxiway Re-Alignment							
	C-150 Staking and Demolition Plans		4	4	8	16		32
	C-160 Asphalt Paving Plans		4	12	12	24		52
	C-400 Erosion Control and Stormwater Management			1		8		9
	C-401 Grading Plans		4	12	16	12		44
2c	Bid Additive 2 - North Apron							
	C-150 Staking and Demolition Plans		1	2	2	4		9
	C-160 Asphalt Paving Plans		1	2	2	8		13
	C-400 Erosion Control and Stormwater Management			4		5		9
	C-401 Grading Plans		1	16	12	8		37
4	Update Cost Estimate		4					4
5	Prepare and Submit 60% Documents, PDF Progress Set					4		4
6	General Coordination with Owner		4					4
Total Labor Hours:			26	69	80	135		310
Total Labor Costs:			\$4,732.00	\$9,867.00	\$9,360.00	\$13,095.00		\$37,054.00
II.c. DESIGN DEVELOPMENT (90%)								
1	Draft Specifications	1	6	4			4	15
2a	Base Bid - Hangar Taxiway							
	C-120 Construction Safety and Phasing Plans		1	6		4		11
	C-150 Staking and Demolition Plans		3	3	8	4		18
	C-160 Asphalt Paving Plans		3	8	16	12		39
	C-400 Erosion Control and Stormwater Management			3		2		5
	C-401 Grading Plans		3	4	16	30		53
	C-500 Typical Sections			1		2		3
	C-501 Asphalt Paving Details			8	16	16		40
2b	Bid Additive 1 - Center Taxiway Re-Alignment							
	C-150 Staking and Demolition Plans		4	2	8	16		30
	C-160 Asphalt Paving Plans		4	4	8	12		28
	C-400 Erosion Control and Stormwater Management			2		8		10

Clearwater Airpark Clearwater, FL Apron and Taxiway Reconstruction		Project Manager	Senior Engineer	Engineer	Senior Designer	Designer	Clerical	Totals
		\$221.00	\$182.00	\$143.00	\$117.00	\$97.00	\$85.00	
	C-401 Grading Plans		4	8	8	16		36
	C-500 Typical Sections			1		2		3
	C-501 Asphalt Paving Details			2	2	8		12
2c	Bid Additive 2 - North Apron							
	C-150 Staking and Demolition Plans		3	2	2	4		11
	C-160 Asphalt Paving Plans		3	2	2	4		11
	C-400 Erosion Control and Stormwater Management			3		3		6
	C-401 Grading Plans		3	4	4	4		15
	C-500 Typical Sections			1	2	4		7
	C-501 Asphalt Paving Details			2		2		4
3	Internal Meetings/Team Coordination/Quality Review	2	8	8	4		2	24
4	Update Cost Estimate		2			4		6
5	Prepare and Submit 60% Documents, incl. CAD			8	8	12	4	32
6	General Coordination with Owner	12	32				6	50
Total Labor Hours:		15	79	86	104	169	16	469
Total Labor Costs:		\$3,315.00	\$14,378.00	\$12,298.00	\$12,168.00	\$16,393.00	\$1,360.00	\$59,912.00
III. Contract Documents (100%)								
1	Incorporate Final 90% Review Comments	4	16		24	40	8	92
2	Prepare and Submit Final Project Documentation		4		16	25	8	53
Total Labor Hours:		4	20		40	65	16	145
Total Labor Costs:		\$884.00	\$3,640.00		\$4,680.00	\$6,305.00	\$1,360.00	\$16,869.00
IV. Bidding and Award								
1	Coordinate with Owner	4	8				8	20
2	Respond to Bidders Questions		4		8		2	14
3	Prepare Documents for Addendum		4		4	8	2	18
4	Attend and Participate in a Pre-Bid meeting			4				4
Total Labor Hours:		4	16	4	12	8	12	56
Total Labor Costs:		\$884.00	\$2,912.00	\$572.00	\$1,404.00	\$776.00	\$1,020.00	\$7,568.00
V.a. Taxiway Construction Administration Services								
1	Owner and Tenant Coordination		4	2			2	8
2	Pre-Construction Conference	4	4					8
3	Shop Drawing Review		4	2			2	8
4	Weekly Remote Construction Meetings (up to 12 weeks)		30	30			8	68
5	Site Visits and Field Coordination (6 Total Site Visits)	16	24				10	50
6	Assist in Preparing Routine Change Orders	4					4	8
7	Review Test Results provided by the Contractor		8				2	10
8	Review Contractor's Monthly Pay Applications	2	2				4	8
9	RFI Responses	4	4	2	16	16	4	46
10	Substantial (2) / Final (1) Completion/Punch List	12					4	16
Total Labor Hours:		42	80	36	16	16	40	230
Total Labor Costs:		\$9,282.00	\$14,560.00	\$5,148.00	\$1,872.00	\$1,552.00	\$3,400.00	\$35,814.00
V.b. Apron Construction Administration Services								
1	Weekly Remote Construction Meetings (4 Additional Weeks)		4	4			8	16
2	Site Visits and Field Coordination (2 Additional)	4	8				10	22
3	Review Test Results		2				1	3
4	Review Monthly Pay Applications (1 Additional)	1	1				1	3
5	RFI Responses			2	4	4	1	11
Total Labor Hours:		5	15	6	4	4	21	55
Total Labor Costs:		\$1,105.00	\$2,730.00	\$858.00	\$468.00	\$388.00	\$1,785.00	\$7,334.00
Total Basic Fees (Design and CA):								\$208,082.00
Optional Services								
1	Airspace Analysis							
	A. Prepare form 7460-1 (Temporary Const.)		2	4			2	8
	B. Prepare Site Exhibits			2	4			6
	C. Upload and Coordinate with FAA		2				4	6
Sub Total Airspace Hours			4	6	4		6	20
Sub Total Airspace Fee			\$728.00	\$858.00	\$468.00		\$510.00	\$2,564.00
2	Prepare and Submit CSPP	8	16				2	26
Sub Total Airspace Hours		8	16				2	26
Sub Total Airspace Fee		\$1,768.00	\$2,912.00				\$170.00	\$4,850.00
3	Stormwater Pond Modifications	8	20	40	60	80	2	210
Sub Total Stormwater Hours		8	20	40	60	80	2	210

Clearwater Airpark Clearwater, FL Apron and Taxiway Reconstruction		Project Manager	Senior Engineer	Engineer	Senior Designer	Designer	Clerical	Totals
		\$221.00	\$182.00	\$143.00	\$117.00	\$97.00	\$85.00	
Sub Total Stormwater Fee		\$1,768.00	\$3,640.00	\$5,720.00	\$7,020.00	\$7,760.00	\$170.00	\$26,078.00
4 Supplemental Geotechnical and Survey Support								\$5,000.00
5 Bid Additive 3 - Taxiway Rejuvenation for "Fair Condition"								
A. Additional Layout Sheets				2		20	8	30
B. Marking Removal Plans				2		16	10	28
C. Sealcoat Specifications			4				1	5
D. Marking Plans		1	1		20	40	1	63
E. Shop Drawing Review/RFI Responses			4	2			1	7
Total Labor Hours:		1	9	6	20	76	21	133
Total Labor Costs:		\$221.00	\$1,638.00	\$858.00	\$2,340.00	\$7,372.00	\$1,785.00	\$14,214.00
6 Bid Additive 4 - Apron Expansion Design								
A. Additional Layout Sheets				6		20	8	34
B. Demolition Plans				6		40	10	56
C. Paving Plans			4	8		40	1	53
D. Grading Plans		1	1	12	20	60	1	95
E. Shop Drawing Review/RFI Responses			4	2			1	7
Total Labor Hours:		1	9	34	20	160	21	245
Total Labor Costs:		\$221.00	\$1,638.00	\$4,862.00	\$2,340.00	\$15,520.00	\$1,785.00	\$26,366.00
Total Optional Fees (Lump Sum):								\$79,072.00
SubTotal Fees (Basic and Special Services)								\$287,154.00
10% Contingency								\$29,000.00
TOTAL FEE PROPOSAL								\$316,154.00