



NOTICE OF MEETING
INDUSTRIAL DEVELOPMENT CORPORATION
OCTOBER 6, 2020 - 9:00 A.M.
Virtual Meeting Dial In: +1 346 248 7799 US (Houston)
Meeting ID: 871 7870 9242
Password: 691504

Notice is hereby given in accordance with Order of the Governor issued March 16, 2020, the City Council of the City of Galveston will conduct its Special Meeting by telephone/video conference in order to advance the public health goal of limiting face-to-face meetings (also called "social distancing") to slow the spread of the Corona Virus/COVID-19. There will be no public access to the location described above.

AGENDA

- I. Declaration Of A Quorum
- II. Roll Call
- III. Conflict Of Interest Declaration
- IV. Consider Approval Of The September 15, 2020 Minutes.

Documents:

[IDC MINUTES_09152020-DRAFT.PDF](#)

- V. Public Comment On Agenda Items
- VI. Receive And Discuss An Update From The GEDP On Its Activities And Deliverables.
- VII. Discuss And Consider Giving Staff Direction On Pursuing An Admiral Level Membership With The Chamber Of Commerce.
- VIII. Discuss And Consider Giving Staff Direction On Funding For A Leadership Galveston Grant.
- IX. Discuss And Receive An Update On The Windstorm Invoice.
- X. Discuss And Consider IDC Economic Support Programs For Galveston Businesses.
- XI. Beach Remediation Project
 1. Consider For Approval A Resolution Of The Board Of Directors Of The Industrial Development Corporation Of The City Of Galveston, Approving As A Project Of The Corporation The Purchase Of Beach Remediation Equipment, Debris Removal Services, Sand Fence Materials & Installation.
 2. Consider for approval an Economic Development Grant Agreement between the City of Galveston, Texas and the Industrial Development Corporation of the City of Galveston, Texas for the purchase of beach remediation equipment, Debris Removal services, Sand Fencing material and installation.

Documents:

2020_0930 - BEACH REMEDIATION EQUIPMENT PACKAGE SERVICES
SUPPLIES.DOCX
RESOLUTION 2020.10.06. BEACH REMEDIATION EQUIPMENT.DOCX
IDC AGREEMENT 2020.10.06. BEACH REMEDIATION EQUIPMENT
PROJECT.DOCX

- XII. Consider For Approval A Proposal From APTIM Environmental & Infrastructure, LLC. For Additional Post-Storm Surveying Services Associated With The 2019-2022 Wading Depth And Depth Of Closure Surveys Project.

Documents:

OCTOBER IDC - STAFF REPORT - APPROVAL OF POST-STORM CONTRACT
OPTION.PDF

XIII. Administrative Matters

- A. Discuss And Receive An Update From The Treasurer On Expenses, Available Funds, Forecasts, And Investments.

Documents:

FORECASTING - IDC BEACH SILO AS OF 5.2020 V2.PDF
FORECASTING - IDC ED SILO AS OF 5.2020.PDF
FORECASTING - IDC PUBLIC INFRA AS OF 5.2020.PDF
FORECASTING - IDC PARKS SILO AS OF 5.2020.PDF

- B. Discuss And Receive An Update On Current Or Completed IDC Projects.

Documents:

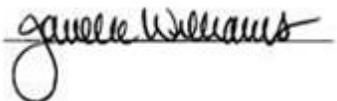
COPY OF FY20- SEP 2020 MEETING IDC SPREADSHEET AS OF
9.30.20.PDF

XIV. Schedule Future Meetings

XV. Request Agenda Items For Future Meetings

XVI. Adjournment

I certify that the above Notice of Meeting was posted in a place convenient to the public in compliance with Chapter 551 of the Texas Government Code on October 2, 2020 at 3:20 P.M.



Janelle Williams, City Secretary

***City Council Members may be attending and participating in the discussions**

IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), PERSONS IN NEED OF A SPECIAL ACCOMMODATION TO PARTICIPATE IN THIS PROCEEDING SHALL, WITHIN THREE (3) DAYS PRIOR TO ANY PROCEEDING, CONTACT THE CITY SECRETARY'S OFFICE, SUITE 201, 823 ROSENBERG, GALVESTON, TEXAS 77550 (409-797-3510).

DRAFT
INDUSTRIAL DEVELOPMENT CORPORATION
REGULAR MEETING - SEPTEMBER 15, 2020

9/15/2020 - Minutes

I. Declaration Of A Quorum

Board Member Brown declared a quorum and called the meeting to order at 9:00 a.m.

II. Roll Call

Board Members Present: Board Member Dr. Craig Brown, Chair (Mayor Pro Tem); Board Member John Listowski (City Council); Board Member Jason Hardcastle (City Council); Board Member Spencer Priest (Park Board of Trustees); and Board Member Bill Rider (Galveston Economic Development Partnership). Board Member Dr. Jackie Cole (City Council) arrived at 9:01 a.m. and Board Member Terrilyn Tarlton-Shannon (Galveston Chamber of Commerce) arrived at 9:02 a.m.

III. Conflict Of Interest Declaration

None.

IV. Consider Approval Of The August 17, 2020 Meeting Minutes.

Board Member Listowski made a motion to approve the August 17, 2020 minutes, with Board Member Hardcastle seconding the motion. The motion passed 5-0; Board Members Cole and Tarlton-Shannon were not present for the vote.

V. Public Comment On Agenda Items

None.

VI. Discuss And Receive An Update On Pelican Island Bridge From Galveston County Commissioner Precinct 4.

Galveston County Commissioner Ken Clark discussed with the board an update on Pelican Island Bridge. He reported that TxDOT has a more secure estimate of \$115 million for the bridge and the project is currently \$4 million short for the utility relocation. He will be meeting with the Port of Galveston and Texas A&M for potential funding commitments, and will be going to City Council for renewal of the agreement that expired in 2019, which will allow the County to sign the Advanced Funding Agreement with TxDOT. He reminded the Board that the IDC money is the local match.

VII. Discuss And Consider Possible Action Regarding The Pelican Island Bridge Project.

No action.

VIII. Administrative Matters

A. Discuss And Consider For Approval Proposed Amendments To IDC Articles Of Incorporation And By-Laws.

Board Member Listowski made a motion to approve the draft Articles of Incorporation and By-Laws, and leaving board positions as they are, with Board Member Brown seconding the motion. The motion passed 5-2; Board Members Cole and Tarlton-Shannon voted in opposition. Board Member Tarlton-Shannon requested the minutes reflect that she approves of everything but wanted a Wharves Board position on the Board.

B. Discuss And Consider IDC Economic Support Programs For Galveston Businesses.

iHeart Radio representative Missy Always and Galveston County Daily News representative Amy Scott discussed with the board options for advertising campaigns that would assist Galveston businesses. Board Member Brown made a motion for staff to work with individuals that have presented today, iHeart Radio and Galveston County Daily News, and to work with individual IDC members to get their input with Art Pertile of Olson & Olson, to give guidance

on a specific plan that would not only address retail and hospitality but also would address all the other businesses that don't fit into that category, to provide business assistance in some way to help them through this pandemic time. Board Member Rider seconded the motion. Unanimously approved. The Board will hold a special meeting on October 6, 2020 at 9:00 a.m. to discuss and consider options.

- C. Discuss And Consider A Sponsorship For The 2020 GEDP Economic Development Summit. **Board Member Brown made a motion to approve the sponsorship for the 2020 GEDP Economic Development Summit, with Board Member Hardcastle seconding the motion. The motion passed 6-0; Board Member Rider abstained from voting.**

- D. Discuss And Consider A 2021 GEDP Membership. **Board Member Brown made a motion to approve a 2021 GEDP Membership, with Board Member Hardcastle seconding the motion. The motion passed 5-0; Board Members Rider and Cole abstained from voting.**

- E. Discuss And Receive An Update From The Treasurer On Expenses, Available Funds, Forecasts, And Investments. **Economic Development Coordinator Garrett McLeod provided information on silos and schedule of funds.**

- F. Discuss And Receive An Update On Current Or Completed IDC Projects. **Economic Development Coordinator Garrett McLeod provided information on the addition of the 27th Street Project Phase III.**

- G. Discuss The FY21 Calendar.

Economic Development Coordinator Garrett McLeod reported on the FY21 Calendar.

January 5, 2021 - Review Economic Development Silo and 5 year funding plan; Review Airport Operations; Review Port Operations; and GEDP Report.

February 2, 2021 - Review Parks Silo and 5 year funding plan; Review Community Pool Operational Expenses; Sales tax report due 1/31 to Comptroller of Public Accounts - Finance Department; and Audit prior Fiscal Year Contacts and Resolutions for signature (Staff).

March 2, 2021 - Review the Infrastructure Silo and 5 year funding plan; Review IDC Capital Improvement Program and Forecasts.

June 1, 2021 - Review Beach Silo and 5 year funding Plan.

July 12, 2021 - Initial budget workshop; Update Officers with the Secretary of State, if necessary; and Legislative Update and report - odd numbered year.

August 3, 2021 - Consider FY Budget and forward to City Council for approval.

September 14, 2021 - Consider contract for legal services; and Consider next fiscal year's meeting calendar.

- IX. Schedule Future Meetings

A special meeting will be held on October 6, 2020 to discuss and consider IDC Economic Development Support Programs for Galveston Businesses.

- X. Request Agenda Items For Future Meetings

Board Member Tarlton-Shannon requested agenda items for an Admiral Level Membership to the Chamber of Commerce, funding for a Leadership Galveston Grant, and an update on the Windstorm invoice. Board Member Hardcastle requested an agenda item for an update from

GEDP on the work they are doing on behalf of the City.

XI. Adjournment

The meeting was adjourned at 11:25 a.m.

DRAFT



VIA

City of Galveston

DEPARTMENT OF PUBLIC WORKS

Robert L. Winiecke, PE, Director of Public Works
rwiniecke@galvestontx.gov | Office Number: (409) 797-3664 | www.galvestontx.gov

September 30, 2020

To: Honorable Mayor and City Council Members
Industrial Development Corporation Board Members

From: Robert L. Winiecke, PE, Director of Public Works

**Re: APPROVE THE CITY OF GALVESTON PUBLIC WORKS DEPARTMENT
REQUEST FOR FUNDING OF THE BEACH REMEDIATION EQUIPMENT
PACKAGE, SERVICES AND SUPPLIES.**

1. Background:

- A. Given our geographic position on the Gulf of Mexico, Galveston Island, the City of Galveston and surrounding communities are subject to threats hurricanes and other natural disasters.
- B. In August 2020, Hurricane Laura threatened our region of the Gulf coast and for a time appeared to be headed directly toward our community. Fortunately, the storm turned to the northeast and made landfall in southwest Louisiana. We are grateful for being spared from any catastrophic damages and have those who were impacted directly in our thoughts and prayers.
- C. The City of Galveston did not get out of Hurricane Laura unscathed though. The City of Galveston did suffer damages along its west end of the island due to minor flooding and wave action from the storm surge associated with Hurricane Laura. Damages on the west end of the island were predominantly isolated to dune erosion, and sand deposition in beachside subdivisions (e.g. Bermuda Beach, Pirates Beach, Indian Beach and Terramar).
- D. Based on previous damages to west end beaches due to Hurricane Hanna in July 2020 staff began cleanup efforts following protocols established to prevent impurities (e.g. asphalt chunks, wood, trash, etc.) from being placed on the beaches. Due to our experience with Hurricane Hanna this material was deemed to be “non-beach quality sand” by the General Land Office (GLO) and was disposed of at the City’s 83rd Street stockpile.
- E. On August 27, 2020 staff began cleanup efforts from Hurricane Laura following the procedure established post-Hurricane Hanna. During the cleanup, staff noticed that the volume of sand washed up during Hurricane Laura was significantly more than experienced during Hurricane Hanna due to erosion of the dunes along west end beaches and staff sought an option with the GLO to restore the sand back to the beaches where it belongs. Staff and the GLO developed an approved methodology to





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- place the sand back on the beaches and spread it out to allow for natural disbursement. This revised approach allowed staff to restore the displaced sand to the beaches where it belongs as well as complete the cleanup efforts and restore access more quickly to the beachside subdivisions.
- F. Public Works staff utilized its existing heavy machinery from the Drainage, Streets and Municipal Utilities Divisions to perform the cleanup efforts; however, the larger and more specialized equipment used to separate the sand from the debris was borrowed from the Municipal Utilities Department. This heavy machinery included front-end loaders, skid steer loaders, backhoes, grade-all's, motor-graders, dump trucks and specialized attachments used for the sifting work.
- G. Then again in September 2020, another threat to our region in Tropical Storm Beta presented itself and made landfall to the southwest of Galveston in the Matagorda Bay area. This time we were presented with heavy surf, an elevated storm surge of 3-5 feet in a similar fashion to Hurricane Laura in August 2020, but this time, we also received a cumulative total of a little more than 4-inches of rainfall through the event. Unfortunately, the wave action from the storm surge caused significant damage to the coastal dunes and in a number of cases wiped them out in their entirety. More specifically, the protective dunes at Dellanera Park, and the beachside subdivisions of Bermuda Beach, Spanish Grant and Pirates Beach East took the brunt of the damage from this Tropical Storm.
- H. Public Works staff again utilized its existing heavy machinery from the Drainage and Streets Divisions to perform the cleanup efforts; however, this storm resulted in a different type of debris accumulation. While Hurricane Laura presented large volumes of sand and sea grasses, Tropical Storm Beta presented more construction debris, trash, and sand being washed onto the roadways. In a number of instances, the existing paved roadways themselves were damaged by the wave action that occurred. Even though the makeup of the debris washed up during the storm was different, we still found that the larger, more specialized equipment made the cleanup efforts more effective. This heavy machinery included front-end loaders, skid steer loaders, backhoes, grade-all's, motor-graders, and dump trucks. In addition to the list of heavy machinery used, this storm event also resulted in the flooding of a couple beachside subdivisions (e.g. Sunny Beach and Karankawa Beach) due to rising tidal waters and rainfall. The induced flooding as a result of the storm required Public Works staff to utilize its existing 6-inch trailer mounted trash pump to remove rain and tidal flood waters from the Sunny Beach and Karankawa Beach subdivisions. Since we only have one trash pump we needed to prioritize its deployment based upon severity of flooding and limits of access to private property being cutoff. To





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further prevent restricting access to the Sunny Beach subdivision, staff worked with an adjacent property owner to gain approval to setup the 6-inch trash pump on the beach side to suck water from the pond directly to the Gulf. This procedure was settled upon in a manner to prevent a large loss of beach sand due to the breaching of the impoundment.

- I. In the Pirates Beach East subdivision, the City of Galveston owns a number of “buy-out” lots from Hurricane Ike that have experienced severe erosion of beach sands and protective dunes.
- J. The Public Works Department would greatly benefit from having additional heavy machinery available in its fleet to perform these types of cleanup efforts.

2. **Current Situation:**

- A. The City of Galveston had to utilize its existing heavy machinery to conduct post-disaster cleanup efforts due to Hurricane Laura (August 2020) and Tropical Storm Beta (September 2020). Through our efforts we found that some of the smaller equipment we have in the Public Works Department (e.g. backhoes and grade-all’s) and used for the cleanup efforts is inefficient at making a large impact on material/debris/sand removal. We found that the borrowed machinery from the Municipal Utilities Division was more useful in making a noticeable impact more quickly. The list of equipment shown below was found to be the most effective at making a sizable impact on the sand removal efforts. In addition to some of the equipment being undersized for the task, the cleanup efforts put additional wear and tear on the existing equipment as well as exposed the heavy machinery directly to salt water and its damaging effects. Moreover, in the event the City suffers a direct hit from a storm of this caliber or higher, the aforementioned equipment borrowed from the Municipal Utilities Department will likely be unavailable since it will be deployed to conduct emergency repairs to damaged utility infrastructure.
- B. In an effort to protect the City’s property rights and to begin reestablishing the protective dunes on City owned “buy-out” lots, staff is seeking funding to install sand fencing around these City owned parcels to ensure that the property can continue to be used as a protective buffer for the subdivision as well as to begin reestablishing the lost dunes. The installation of this fencing will also serve as a protective barrier to keep pedestrians off of the “buy-out” lots where exposed hazards now exist (e.g. exposed wooden piers, concrete chunks, exposed wires, etc.) due to storm related erosion.
- C. Based on observations of the cleanup efforts, the Public Works Department is seeking to purchase additional equipment and materials to perform Beach Remediation





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activities including debris removal, sand restoration and access restriction/dune restoration. The following is a list of heavy machinery that would benefit the City and the Public Works Department:

BEACH REMEDIATION EQUIPMENT PACKAGE

ITEM	DESCRIPRION	QUANTITY	UNIT COST	EXTENDED COST
		[#]	[\$]	[\$]
1	BARBER SURF RAKE	1	\$ 60,000.00	\$ 60,000.00
2	FRONT END LOADER SOIL SIFTING ATTACHMENT	1	\$ 65,000.00	\$ 65,000.00
3	6-INCH TRAILER MOUNTED TRASH PUMP	1	\$ 90,000.00	\$ 90,000.00
4	DEBRIS REMOVAL, SAND FENCING MATERIALS & INSTALLATION	1	\$ 100,000.00	\$ 100,000.00
EQUIPMENT SUBTOTAL:				\$ 315,000.00
CONTINGENCY (5%):				\$ 15,750.00
TOTAL:				\$ 330,750.00

This proposed equipment and materials purchase will serve three purposes. Primarily, it will allow the City of Galveston to meet GLO’s regulations and place beach quality sand back on the beach in lieu of hauling it to a fill site. Secondly, it will allow the City of Galveston to recover more quickly from natural disasters by providing its crews with equipment that is capable of moving larger volumes of material than existing equipment allows for. Lastly, it will allow the City of Galveston to protect its investment in the “buy-out” lots, while helping to provide protection to the Pirates Beach East subdivision. This means that the eroded sand can be placed back on the City’s beaches more quickly, therefore reestablishing its protective qualities as well as restoring access for our residents and tourists alike. The specialized equipment will increase the efficiency of our operations, which will result in shortening the timeframe of our cleanup efforts following a disaster.

3. Issues:

- A. Cost: The General Fund does not have sufficient funds to purchase additional equipment and materials to conduct Beach Remediation activities.
- B. Impact: Beach Remediation efforts post-disaster will be expedited in accordance with GLO regulations.





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4. **Recommendation:**

A. Industrial Development Corporation to approve the use of Beach Remediation Funds to purchase equipment and sand fencing identified in Section 2 of this report for the City of Galveston Public Works Department.

5. **Fiscal Impact Report:**

Requested by: Robert L. Winiecke, PE, Director of Public Works

Funding Source: Beach Remediation Funds allocated by the Industrial Development Corporation.

Amount Requested: \$330,750.00

Respectfully Submitted,

Forwarded for Approval,

Robert L. Winiecke
Director of Public Works

Brandon Cook, Assistant City Manager
of Development and Municipal Services



RESOLUTION NO.

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE INDUSTRIAL DEVELOPMENT CORPORATION OF THE CITY OF GALVESTON, APPROVING AS A PROJECT OF THE CORPORATION THE PURCHASE OF BEACH REMEDIATION EQUIPMENT, DEBRIS REMOVAL SERVICES, SAND FENCE MATERIALS & INSTALLATION.

* * * * *

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE INDUSTRIAL DEVELOPMENT CORPORATION OF THE CITY OF GALVESTON:

Section 1. The Board of Directors of the Industrial Development Corporation of the City of Galveston does hereby find that the expenditures provided for in this project are required and suitable for infrastructure necessary to promote or develop new or expanded business enterprises limited to beach remediation along the Gulf of Mexico in accordance with Section 501.103 of the Texas Local Government Code.

Section 2. The Board of Directors of the Industrial Development Corporation of the City of Galveston (“IDC”) does hereby approve the following described project:

The project will authorize the expenditure of up to \$330,750.00 in Industrial Development Corporation of the City of Galveston funds for the purchase of beach remediation equipment, debris removal services, sand fencing materials and installation services, as described in **Exhibit B** attached hereto and incorporated herein for all purposes, to perform beach remediation.

Section 3. The anticipated cost of the project is \$330,750.00 plus legal and administrative costs paid by IDC.

Section 4. A public hearing before the Industrial Development Corporation of the City of Galveston is hereby called regarding the proposed Project. Said public hearing shall be held at 1_:00 o’clock a.m., on _____ __, 2020, at City Hall 823 Rosenberg Room 204 Galveston, Texas.

Section 5. A notice of such public hearing to be published in a newspaper of general circulation within the City of Galveston, Texas, in the form attached hereto as Exhibit “A.”

PASSED, APPROVED, AND RESOLVED on this _ day of _____ 2020.

Dr. Craig Brown, President
Board of Directors

ATTEST:

, Secretary
Board of Directors

APPROVED AS TO FORM:

Arthur L. Pertile, III
Counsel for the Corporation

Exhibit "A"
INDUSTRIAL DEVELOPMENT CORPORATION OF THE CITY OF GALVESTON
NOTICE OF PROJECT AND NOTICE OF PUBLIC HEARING

The Industrial Development Corporation of the City of Galveston ("IDC") hereby gives notice pursuant to Section 505.159 of the Texas Local Government Code that the Corporation has adopted, as a project the following:

The project will authorize the expenditure of up to **\$330,750.00** in Industrial Development Corporation of the City of Galveston funds for the purchase of beach remediation equipment, debris removal services, sand fencing materials and installation services.

The anticipated cost of the project is **\$330,750.00 plus legal and administrative costs paid by IDC.**

The Corporation hereby gives notice that it will conduct a public hearing to solicit citizen input on the proposed Project. The public hearing shall be held at ___:00 o'clock a.m., on ___ __, 2020, at City Hall 823 Rosenberg Room 204 Galveston, Texas. Interested citizens are invited to attend and will be given an opportunity to be heard.

EXHIBIT B

**ECONOMIC DEVELOPMENT GRANT AGREEMENT BETWEEN
THE CITY OF GALVESTON, TEXAS
AND
THE INDUSTRIAL DEVELOPMENT CORPORATION
OF THE CITY OF GALVESTON, TEXAS**

This Agreement is entered into this ____ day of _____, 2020, by and between the City of Galveston, Texas and the Industrial Development Corporation of the City of Galveston, Texas (the "IDC"), a Texas nonprofit corporation established pursuant to the Development Corporation Act of 1979 and now codified in Chapters 501, 502, and 505 of the Texas Local Government Code (hereafter referred to as the "Act").

WITNESSETH:

WHEREAS, pursuant to the Act, the IDC is authorized to provide funding relating to projects that the IDC finds to be encompassed within the definition of "Projects," as that word is defined by Chapters 501 and 505 of the Act; and

WHEREAS, the City of Galveston has applied for a grant from the IDC for assistance in beach remediation along the Gulf of Mexico; and

WHEREAS, the IDC has determined that such a grant complies with the Act and is in keeping with the mission of IDC.

NOW, THEREFORE, for and in consideration of the recitals set forth above and the promises made herein, the City of Galveston and the IDC agree as follows:

**ARTICLE I.
IDC'S OBLIGATIONS**

Subject to the terms and conditions set forth in Article II hereof, upon execution of this Agreement, the IDC will provide a grant to the City of Galveston as follows:

*The project will authorize a grant up to \$330,750.00 from Industrial Development Corporation of the City of Galveston funds for the purchase of beach remediation equipment, Debris Removal services, Sand Fencing material and installation as described in **Exhibit B** attached hereto and incorporated herein for all purposes, to perform beach remediation.*

**ARTICLE II.
CITY OF GALVESTON'S OBLIGATIONS**

A. Following the execution of this Agreement, the City of Galveston shall begin efforts to purchase the beach remediation equipment listed in Exhibit B. The failure by the City of Galveston to purchase the equipment described in Article I of this Agreement shall constitute a breach of this Agreement. The City of Galveston understands and agrees that, in the event termination of this Agreement by the City of Galveston, or pursuant to Article V of this Agreement, the City of Galveston shall reimburse the IDC the full amount of money paid by the IDC to the City of Galveston.

B. In accordance with Chapter 2264 of the Texas Government Code, the City of Galveston agrees not to knowingly employ any person who is not lawfully admitted for permanent residence to the United States or who is not authorized under law to be employed in the United States. During the term of this Agreement, the City of Galveston shall notify the IDC of any complaint brought against City of Galveston alleging that it has employed undocumented workers. If the City of Galveston, or any branch, division or department of the City of Galveston is convicted of a violation under 8 U.S.C. Section 1324a (f), the total amount of economic development grants it has received, together with interest at the rate of five percent (5%), shall be repaid by the City of Galveston to the IDC not later than the one hundred twentieth (120th) day after the date the IDC becomes aware of and notifies the City of Galveston of the violation. The City of Galveston shall not be liable for a violation of Chapter 2264 by a subsidiary, affiliate, or franchisee, or by any person with whom the City of Galveston contracts. The City of Galveston shall reimburse the IDC the required amount within thirty (30) days of the termination of this Agreement.

C. The City of Galveston shall keep and maintain complete and accurate records relating to its hiring and employment of persons, which is separate and identifiable from its other records, and shall make such records available for not less than three (3) years following termination of this Agreement. The IDC and its representatives shall be entitled to inspect said records during the term of this Agreement and for three (3) years thereafter, upon reasonable notice to the City of

Galveston. City of Galveston failure to comply with this provision will constitute a breach of the Agreement.

**ARTICLE III.
CITY OF GALVESTON 'S REPRESENTATIONS AND WARRANTIES**

The City of Galveston represents and warrants, as of the date hereof, that:

1. The City of Galveston is a governmental entity of the State of Texas;
2. Execution of this Agreement has been duly authorized by the City of Galveston governing body and this Agreement is not in contravention of the City of Galveston governing body authority or any agreement or instrument to which the City of Galveston is a party or by which it may be bound as of the date hereof;
3. No litigation or governmental proceeding is pending or, threatened against or affecting the City of Galveston that may result in a material adverse change in the City of Galveston business, properties, or operations sufficient to jeopardize the City of Galveston legal existence; and
4. No written application, written statement, or correspondence submitted by the City of Galveston to the IDC in connection with this Agreement, or in connection with any transaction contemplated hereby contains any untrue statement of a material fact or fails to state any material fact necessary to keep the statements contained therein from being misleading. City of Galveston agrees that, upon execution of this Agreement, its application shall be attached and incorporated for all purposes.

Except as expressly set forth in this Article III, the City of Galveston makes no other representation or warranty of any kind in connection with or related to the provisions of this Agreement.

**ARTICLE IV.
IDC'S REPRESENTATIONS AND WARRANTIES**

The IDC represents and warrants, as of the date hereof, that:

1. The IDC, to the best of the knowledge of its Board of Directors, is legally authorized to enter into this Agreement by virtue of the statute under

which it is governed and by the authorities and powers vested in it as a corporation duly and properly organized under the Act;

2. The execution of this Agreement has been duly authorized by the IDC;

3. No litigation or governmental proceeding is pending, or, to the knowledge of any of the IDC's officers, threatened against or affecting the IDC, that may result in the IDC's inability to meet its obligations under this Agreement; and

4. The IDC has no reasonable basis for believing that it has or will have incurred debts beyond its ability to pay as such debts mature, including, but not limited to, the obligations set forth in this Agreement.

Except as expressly set forth in this Article IV, the IDC makes no other representation or warranty of any kind in connection with or related to the provisions of this Agreement.

ARTICLE V. REMEDIES

A. Except as otherwise provided in this Agreement, in the event of any default in or breach of this Agreement by any party hereto, **or any successor** to such party, such defaulting or breaching party shall, upon written notice from the other party, proceed immediately to cure or remedy such default or breach, and, in any event, within sixty (60) days after receipt of such notice. In the event that remedial action is not taken or not diligently pursued and the default or breach shall not be cured or remedied within a reasonable time (but in no event later than ninety (90) days from the date of notification of such breach), the aggrieved party may institute such proceedings as may be necessary or desirable in its opinion to cure and remedy such default or breach, including, but not limited to, seeking specific performance and/or injunctive relief.

B. Upon breach of this Agreement by either party and the failure to cure as permitted by this Article V, the non-breaching party shall have the sole right and discretion to either terminate this Agreement and/or pursue any and all remedies that may be provided by law and this Agreement. Each party acknowledges and agrees that the City of Galveston is not entitled to recover any amounts in excess of the grant money contracted for under this Agreement and that the IDC, pursuant to a breach and

failure to cure by the City of Galveston in accordance with this Agreement, is entitled to recover attorney fees, collection costs, and any other costs due to its pursuit of repayment and remedies under this Agreement.

C. Any delay by any party in instituting or prosecuting any actions or proceedings or otherwise asserting its rights will not, so long as the breach or default by another party is continuing, operate as a waiver of such rights or to deprive it of or limit such rights in any way; nor will any waiver in fact be made by any party with respect to any specific default by any other party except to the extent specifically waived in writing.

ARTICLE VI. GENERAL PROVISIONS

A. Severability. The provisions of this Agreement are severable and, if for any reason, a provision of this Agreement is determined to be invalid by a court having competent jurisdiction over the subject matter of the invalid provision, the invalidity shall not affect other provisions that can be given effect without the invalid provision. Further, in lieu of such illegal, invalid, or unenforceable provision, there will be added automatically as a part of this Agreement, a provision as similar in its terms to such illegal, invalid, or unenforceable provision as may be possible and be legal, valid, and enforceable.

B. Amendment. This Agreement may be amended only by written amendment signed by both parties hereto.

C. Venue. All payments made pursuant to this Agreement and other obligations performed under this Agreement shall be made or performed in Galveston County, Texas. Venue will lie in Galveston County, Texas; and this Agreement is governed by and construed in accordance with the laws of the State of Texas without respect to the conflict of laws thereof.

D. Notices. All notices given with respect to this Agreement must be in writing and will be deemed to have been properly given for all purposes (i) if sent by a nationally recognized overnight carrier for next business day delivery, on the first business day following deposit of such notice with such carrier unless such carrier confirms such notice was not delivered, then on the day such carrier actually delivers

such notice, or (ii) if personally delivered, on the actual date of delivery, or (iii) if sent by certified U.S. Mail, return receipt requested, postage prepaid, on the fifth (5th) business day following the date of mailing, or (iv) if sent by facsimile, then on the actual date of delivery (as evidenced by a facsimile confirmation), provided that a copy of the facsimile and confirmation is also sent by regular U.S. Mail, addressed as follows:

For the IDC: President
City of Galveston, Texas
Industrial Development Corporation
P.O. Box 779
Galveston, Texas 77553
Facsimile: (409) 797-3521

With a copy to: City Manager
ATTN: Director, Economic Development
City of Galveston
P.O. Box 779
Galveston, Texas 77553
Facsimile: (409) 797-3521

For the CITY OF GALVESTON: City Manager
ATTN: Director, Economic Development
City of Galveston
P.O. Box 779
Galveston, Texas 77553
Facsimile: (409) 797-3521

With a copy to: City Attorney
City of Galveston
P. O. Box 779
Galveston, Texas 77553
Facsimile: (409) 797-3531

E. Assignment. This Agreement may not be assigned by either party without the specific prior written consent of the other, which consent will not be unreasonably withheld. In the event that a party consents to any valid assignment of this Agreement by the other party hereto, the assigning party will be relieved of any and all obligations and liabilities on the part of such assigning party under this Agreement.

F. Parties in Interest. Nothing in this Agreement shall entitle any party other than the City of Galveston or the IDC to any claim, cause of action, remedy or right of any.

G. Term. The term of this Agreement (the "Term") will commence upon execution of this Agreement and shall terminate on the earlier occurrence of: (i) when terminated by mutual agreement of the parties; (ii) when terminated pursuant to Article V hereof; (iii) at the City of Galveston's sole and absolute discretion upon the City of Galveston's return of all grant funding to the IDC that it has received under this Agreement; or (iv) upon the City of Galveston's repayment of all monies that are demanded by the IDC and are in fact required to be repaid by the City of Galveston under Article II hereof. Upon termination of this Agreement, all rights, duties and obligations of any kind under this Agreement shall automatically expire and terminate and be of no other force and effect.

H. Interpretation. Each party has had the opportunity to be represented by counsel of its choice in negotiating this Agreement. This Agreement will therefore, be deemed to have been negotiated and prepared at the joint request, direction, and construction of the parties, at arm's length, with the advice and participation of counsel, and will be interpreted in accordance with its terms without favor to any party.

I. No Joint Venture. Nothing contained in this Agreement is intended by the parties to create a partnership or joint venture between the parties.

J. Survival of Terms. All rights, duties, liabilities, and obligations accrued prior to termination will survive termination.

K. Public Information. Information provided by or on behalf of the City of Galveston under or pursuant to this Agreement that the City of Galveston considers as proprietary shall be marked as such and will be maintained as confidential to the extent allowed by law. If proprietary financial or trade secret information is requested under the Texas Public Information Act, the IDC shall follow the standards set out in the Act and under the Texas Attorney General's procedures for such requests, and the City of Galveston shall be responsible for defending the confidentiality of such

information. Other records and information provided to the IDC and its representatives to verify compliance with this Agreement shall be available for public inspection.

L. Counterparts. This Agreement may be executed in several identical counterparts by the parties and each counterpart, when so executed and delivered, shall constitute an original instrument.

M. Entire Agreement. This Agreement represents the entire agreement of the parties with respect to the subject matter hereof.

EXECUTED AND EFFECTIVE, as of the date first indicated above, by the City of Galveston, Texas Industrial Development Corporation, by and through its Board President, duly authorized to execute same by action of its Board; and by the City of Galveston, Texas acting through its duly authorized official.

**CITY OF GALVESTON, TEXAS
INDUSTRIAL DEVELOPMENT CORPORATION**

CITY OF GALVESTON, TEXAS

By: _____
Name: Dr. Craig Brown
Title: President, Board of Directors
Date: _____

By: _____
Name: Brian Maxwell
Title: City Manager
Date: _____

ATTEST:

ATTEST:

By: _____
Name:
Title: Secretary, Board of Directors

By: _____
Name:
Title: Secretary

APPROVED AS TO FORM:

APPROVED AS TO FORM:

By: _____
Name: Arthur L. Pertile, III
Title: Counsel for the Corporation

By: _____
Name: Donald S. Glywasky
Title: City Attorney

**EXHIBIT B
DESCRIPTION OF PROJECT**



City of Galveston

DEVELOPMENT SERVICES

Coastal Resources Division

CoastalResources@GalvestonTX.Gov | 409-797-3660 | www.galvestontx.gov

Date: October 2, 2020

To: Dr. Craig Brown, Chair
Board of Directors, Industrial Development Corporation

From: Dustin Henry, AICP, Coastal Resources and Floodplain Manager

RE: **Consider for approval a proposal from APTIM Environmental & Infrastructure, LLC. for additional post-storm surveying services associated with the 2019-2022 Wading Depth and Depth of Closure Surveys project.**

I. Background

- A. Galveston City Council approved an agreement with APTIM Environmental & Infrastructure, LLC. on February 28, 2019 for the firm to collect topographic and bathymetric survey data of the shoreline on Galveston Island on an annual basis.
- B. This project provides datasets for annual City of Galveston Beach Maintenance permits that are required for maintenance activities along the Island's beachfront, for mapping and maintaining a record of the City's Dune Protection Line in accordance with the Texas Administrative Code (31 TAC Rule § 15.3), and to document beach conditions for potential FEMA assistance after storm events.
- C. The project scope of work includes conducting post-storm surveying to determine the eligibility of the community to receive possible Public Assistance from FEMA as an optional additional service that may be utilized during the project life cycle.

II. Current Situation

- A. APTIM Environmental & Infrastructure, LLC. completed annual surveys of the beach in July of 2019 and July of 2020.
- B. Recent landfalls on the Gulf coast by Hurricane Laura on August 27, 2020 and by Tropical Storm Beta on September 21, 2020 have resulted in visible and apparent erosion to the shoreline of Galveston Island, although the precise extent of erosion is unknown.
- C. After collecting a post-storm survey and undertaking a preliminary volume change analysis, staff will make a determination whether or not to engage APTIM to prepare a Storm Assessment Report and schedule meetings to coordinate Public Assistance efforts with FEMA.





City of Galveston

DEVELOPMENT SERVICES

Coastal Resources Division

CoastalResources@GalvestonTX.Gov | 409-797-3660 | www.galvestontx.gov

III. Issues

- A. Completion of a post-storm survey and an analysis of sand volume changes will be necessary in order for the City to quantify where and how much sand has eroded from engineered beaches that have been recently nourished.
- B. The survey data and sand volume change analysis is intended to be used in conjunction with other data and analysis in an effort to seek reimbursement from FEMA for the cost of replacing the eroded sand in the form of a Public Assistance project.

IV. Alternatives in Order of Priority

- A. Approve the proposal from APTIM Environmental & Infrastructure, LLC. for additional post-storm surveying services associated with the 2019-2022 Wading Depth and Depth of Closure Surveys project.
- B. Do not approve the proposal.

V. Recommendation

- A. Approve the proposal from APTIM Environmental & Infrastructure, LLC. for additional post-storm surveying services associated with the 2019-2022 Wading Depth and Depth of Closure Surveys project.

VI. Fiscal Impact Report

Requested by: Dustin Henry, AICP
Coastal Resources and Floodplain Manager

Funding Source: IDC Operating Budget

Costs of Implementation: \$55,230 – Surveying of Engineered Beaches
\$29,552 – Storm Assessment Report & Coordination with FEMA

VII. Attachments

- A. Best and Final Offer from Aptim Environmental & Infrastructure, LLC (15 Pages)

Respectfully Submitted,

Dustin Henry, AICP

Coastal Resources and Floodplain Manager, Department of Development Services





APTIM

2481 NW Boca Raton Blvd.
Boca Raton, FL 33431
Tel: +1 910 791 9494
Kenneth.Willson@aptim.com

September 14, 2018

City of Galveston
Purchasing Division
823 Rosenberg St.
Room 306
Galveston, TX 77550

Subject: Best and Final Offer for RFQ # 18-02 Beach Surveys

To Whom It May Concern:

Aptim Environmental & Infrastructure, Inc. (APTIM) is pleased to provide you with this Best and Final Offer (BAFO) in response to your request dated August 7, 2018. Furthermore, APTIM's BAFO reflects the additional information provided to us in your email dated September 7, 2018. Services to be provided by APTIM described in the attached BAFO include annual surveys of Galveston Island for a 4-year term, optional post-storm surveys, and an optional Beach Maintenance Plan.

The Scope of Professional Services (the Services) is attached to this proposal as Exhibit A. Exhibit B includes a breakdown of costs by Schedule and sub-task.

The following deliverables have been identified and are described in detail in Exhibit C – List of Deliverables:

- Monthly Progress Reports;
- Annual Survey Report/Post-Storm Survey Report;
- Storm Assessment Report - Optional;
- Beach Maintenance Plan - Optional

This proposal is based on the Professional Services Contract provided by the City, reviewed by APTIM, with included comments for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeffrey L. Andrews', written over a horizontal line.

Jeffrey L. Andrews, PSM
Director of Operations
Aptim Environmental & Infrastructure, Inc.

EXHIBIT “A”
SCOPE OF PROFESSIONAL SERVICES
CITY OF GALVESTON, TEXAS
BEST AND FINAL OFFER
RFQ # 18-02 BEACH SURVEY

Aptim Environmental & Infrastructure, LLC. (APTIM) proposes to provide professional services to the City of Galveston, Texas (City) in accordance with the request for Best and Final Offer (BAFO) dated August 7, 2018. Services to be provided by APTIM under this agreement include annual beach surveys, optional post storm surveys and storm damage analysis reports, the preparation of a beach maintenance plan, and preparation of GIS data deliverables. These services are described in detail in the following sections.

SCHEDULE A – ANNUAL SURVEYS

Under Schedule A services, APTIM will conduct beach survey services for a four (4) year term.

Year 1 Surveying

During Year 1, APTIM will conduct beach profile surveys of 140 beach profiles along Galveston Island between Station 550+00, located approximately 1,000 ft. southwest of the South Jetty, and Station 570+00, located approximately 3,000 ft. northwest of San Luis Pass. Eleven profiles along Jamaica Beach and the Galveston Island State Park, namely Stations 1200+00 through 1100+00, are not included in the survey of Galveston Island. The survey is split into two parts based on whether the profile is located in the vicinity of an engineered beach project. The two types of surveys to be conducted will be “Depth of Closure Surveys” and “Wading Depth Surveys”. In addition, in Year 1, APTIM will conduct a UAS/Drone proof of methodology study. The scope of work for each type of survey as well as the proof of methodology study is provided in the following sections.

Survey Control Reconnaissance:

Prior to the start of the surveys, reconnaissance of published National Geodetic Survey NGS 2nd order control (or higher) control monuments will be conducted to confirm that survey control is in place and undisturbed. Real Time Kinematic Global Positioning System (RTK GPS) and Static GPS techniques will be used to locate and confirm survey control for this project. Static GPS methods will also be utilized to establish temporary benchmarks (TBMs) in the event that the published survey control is disturbed or insufficient to cover the entire survey area. Survey control from historic survey events will be located and utilized to allow for past survey comparison and datum compatibility.

Horizontal and vertical positioning checks will be conducted at the beginning and end of each survey day using at least two 2nd order monuments or TBMs in the project area to ensure system and network stability. RTK GPS utilizes statistical methods to ensure data remains within the 95% confidence interval and meets the accuracy required for this survey.

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All horizontal positions will be collected in US survey feet relative to the North American Datum of 1983/2011 (NAD 83/11). All vertical data will be collected in US survey feet relative to the North American Vertical Datum of 1988 (NAVD 88), Geoid 12b.

Costs associated with establishing survey control are incorporated into the cost of Depth of Closure and Wading Depth surveys.

Depth of Closure Surveys

The standard method used to monitor beach nourishment projects involves conducting repeated beach profile surveys to determine the changes in volume of sand along the beach nourishment project. During the construction of a beach nourishment project, the addition of sand along a particular portion of the beach, creates a protrusion in the shoreline. Over time, natural wave forces work to smooth this un-natural alignment back to a more straight alignment. That process typically occurs through the spreading or diffusion of sand laterally off of a project. This principle is described in the National Research Council's 1995 publication titled *Beach Nourishment and Protection*. The accurate measurement of this lateral spreading is useful in accurately accounting for end losses and diffusion and designing future beach nourishment projects. Based on the length of the beach fill projects constructed along Galveston Island, APTIM is recommending collection of depth of closure profiles along the shoreline 5,000 ft. on either side of the Historic Seawall Beach and Babe's Beach project area that extends from Stations 360+00 to 110+00. With respect to the Dellanera project, APTIM is recommending collection of depth of closure profiles 2,000 feet on either side of the project that extends from Stations 0+00 to 1490+00.

APTIM will conduct depth of closure surveys along forty-four (44) profiles in the vicinity of the three engineered beach projects, namely Historic Seawall Beach, Babe's Beach, and Dellanera Beach. These profiles include Stations 410+00 to 60+00 and 20+00 to 1470+00. Elevations will be collected at sufficient spacing to provide an accurate representation of the beach profile including all grade breaks and required features. Depth of Closure surveys will be collected in two parts concurrently utilizing two field crews.

Upland and Nearshore Beach Profiles (Topography): Cross-sections of the upland beach will be surveyed using extended rod RTK GPS rovers, standard RTK GPS rovers, and differential leveling techniques. Extended rod RTK GPS rovers are used to augment RTK GPS survey capability into the nearshore. The current systems allow surveyors from APTIM to collect the entire beach profile with RTK GPS technology. Incorporation of RTK GPS into monitoring surveys greatly reduces the potential for human error during data collection and reduction. Differential leveling will only be used in areas where RTK

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GPS fix is lost due to overhead cover or loss of satellite coverage. The use of multi-constellation Trimble R10 and R8 receivers will limit leveling to a minimum.

The nearshore portion of the survey will commence from a point overlapping the upland data to ensure seamless transitions and extend seaward to a point overlapping the offshore data collected by the survey vessel by a minimum of fifty (50) feet. The nearshore portion of the profiles will be surveyed by two (2) surveyors with an Extended Rod Trimble RTK GPS rovers who enter the water wearing Personal Floatation Devices (PFD). This system allows surveyors from APTIM to obtain RTK GPS data in the nearshore region while maintaining data accuracy and personal safety.

Offshore Profiles (Hydrography): The offshore survey will be conducted using an ODOM Hydrotrac sounder with digitizer (or equivalent) on APTIM's 24-foot survey vessel with a centrally located hull-mounted transducer. A Trimble RTK GPS and a TSS dynamic motion sensor will be used onboard the survey vessel to provide instantaneous tide corrections as well as heave corrections. Manual tide readings will be taken while conducting the onshore portion of the profile to verify onboard tide readings. In order to maintain the vessel navigation along the profile lines, HYPACK navigation software will be used for real time navigation and data acquisition.

Offshore profiles will extend seaward to the projected depth of closure. The offshore data collection landward limit will be based on a safe approach distance for the survey vessel based on conditions. All offshore data will have a minimum overlap of fifty (50) feet with the nearshore beach profile.

The sounder will be calibrated with a sound velocity probe and conventional bar-check at the beginning and end of each survey day. The Odom DigiBar PRO sound velocity probe provides a fast and accurate sounder calibration as compared to the traditional bar-check. Bar-checks will be performed as a redundant calibration from a depth of five (5) feet to a minimum depth of twenty (25) feet.

Wading Depth Surveys

APTIM will conduct wading depth surveys along ninety-six (96) profiles, not included in the Depth of Closure Survey scope described in the previous section. These profiles include Stations 550+00 to 420+00, 50+00 to 30+00, 1460+00 to 1210+00 and 1090+00 to 570+00. Elevations will be collected at sufficient spacing to provide an accurate representation of the beach profile including all grade breaks and required features. Data will be collected from the upland limit to the -1 foot contour (NAVD).

Cross-sections of the beach will be surveyed using extended rod RTK GPS rovers, standard RTK GPS rovers, and differential leveling techniques. Extended rod RTK GPS rovers are used to augment RTK GPS survey capability into the nearshore. The current

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systems allow surveyors from APTIM to collect the entire beach profile with RTK GPS technology. Incorporation of RTK GPS into monitoring surveys greatly reduces the potential for human error during data collection and reduction. Differential leveling will only be used in areas where RTK GPS fix is lost due to overhead cover or loss satellite coverage. The use of multi-constellation Trimble R10 and R8 receivers will limit leveling to a minimum.

Data Processing and Survey Deliverables: Upon completion of the field work, data will be processed using APTIM's internal software programs, Trimble Business Center, ArcGIS, and HYPACK. The offshore data will be processed using HYPACK and a ASCII XYZ file will be created and exported for plan view maps as well as cross-section plots. Onshore and offshore data will be merged and a representative cross-sectional plot derived for each profile line. All data will undergo strict quality control procedures including tidal verification, historical data comparison, static verification of all GPS control, and RTK GPS control checks. Shoreline change calculations and will be conducted for all areas with additional volumetric change calculations performed for the engineered beaches.

Upon completion of data processing, a report certified by a Texas registered land surveyor detailing survey methods and results including will be prepared. The report will include:

1. Control Monument Information (Including UAS GCPs and Survey Control Monuments)
2. Shoreline and Volumetric Change Results
3. GIS Metadata
4. Beach Cross-Section Plots
5. ASCII XYZ Data Files(topography and Bathymetry)
6. Ground and Aerial Digital Photography
7. Survey Field Notes
8. Plan-View Survey Maps

UAS/Drone Proof of Methodology Study

A trial UAS aerial survey will be conducted concurrently with the Year 1 conventional survey in order to verify the quality and accuracy of UAS topographic survey methods proposed by APTIM. Three (3), 5000-foot sections of the Island will be surveyed to represent variable beach types found on the Island. A series of existing and newly established ground control point (GCPs) will be located with RTK GPS prior to the UAS flight. Up to ten additional GCPs will be placed on the day of flight to supplement existing GCPs. All GCPs will be located relative to control monuments used for the traditional profiles collection to ensure GPS network stability.

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UAS data will be processed using ESRI ArcGIS products (or equivalent) for creation of a digital elevation model (DEM). Cross-section will be extracted from the DEM for comparison to the traditional RTK GPS profile collection. Results of the accuracy analysis and APTIM’s recommendations for future surveys will be provided to the City in a letter report.

Years 2, 3, and 4 Surveying

In Years 2, 3, and 4, APTIM will conduct depth of closure surveys and wading depth surveys of the same beach profiles as described under the scope of work for Year 1. The depth of closure surveys will be conducted using the same methodology as described previously in this scope of professional services. Assuming the Proof of Methodology study conclusively determines that the UAS/Drone can be used to conduct the Wading Depth Surveys, the following methodology will be used to conduct those surveys in Years 2, 3, and 4.

UAS/Drone Wading Depth Surveys: APTIM will conduct wading depth surveys using UAS/Drone technology along Galveston Island between Stations 550+00 to 420+00, 50+00 to 30+00, 1460+00 to 1210+00 and 1090+00 to 570+00.

Several flights will be needed to collect the entire project area. Prior to all UAS flights, a RTK GPS survey of the GCPs and survey control monuments will be conducted following the control reconnaissance procedures described for the Year 1 Survey.

UAS data collection will be conducted using a DJI Phantom IV unmanned aircraft. Flights will be planned to maximize coverage per transect while maintaining the resolution needed to derive an accurate topography of the ground. All FAA procedures and rules according to Part 107 will be followed. UAS Data will be processed using ESRI ArcGIS tools for DEM creation and cross-section extraction. A cross-section will be extracted for all stations stated above.

In addition to UAS data collection, RTK GPS profiles will be collected at 5000’ spacing for ground truthing and DEM validation. RTK GPS profile collection will follow the same methods as outlined in the Year 1 Survey procedures described above.

Data Processing and Survey Deliverables: Data processing will follow the same methods and deliverables included in the Year 1 Survey with the inclusion of the complete UAS flight as described above.

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SCHEDULE B – OPTIONAL SERVICES

Typically, coastal communities are eligible for public assistance funds for their beaches through Category B and Category G of the Public Assistance Program authorized by the Robert T. Stafford Disaster Relief and Emergency Assistance Act. Category B stipulates that if a natural or engineered beach has eroded to a point where a 5-year flood could damage improved property, cost-effective emergency protective measures on the beach that protect against damage from that flood are eligible. Eligible measures typically include the construction of emergency sand berms to protect against additional damage from a 5-year flood. Category G allows for beaches to be considered eligible facilities for Public Assistance funds under certain conditions. Both types of assistance require surveying to be conducted to determine the eligibility of a community to receive Public Assistance.

Post Storm Event Surveying (Category G Only)

In the event that a storm impacts the City of Galveston beaches, and the City determines they wish to apply for Category G Public Assistance for the engineered beaches previously constructed (Historic Seawall Beach, Babe's Beach, Dellanera Beach), APTIM will conduct a post storm depth of closure survey of the profiles from Stations 410+00 to 60+00 and 20+00 to 1470+00, for a total of forty-four (44) profiles. APTIM will use the same methodology to conduct this survey as is described under *Schedule A – Annual Surveys, Year 1 Surveys, Depth of Closure Surveys*.

Contingency to Restore Control Points:

APTIM will establish control monuments in the event that the existing survey control monuments are lost to the extent that the GPS network is compromised or provides insufficient coverage for the survey area.

Control will be established using Static GPS session methods tied to multiple National Geodetic Survey (NGS) Continually Operating Reference Stations (CORS). Multiple GPS receivers will be deployed simultaneously to log satellite observations on multiple control points. Observations will be logged so there is a minimum of 8 hours of overlapping observations for each receiver on each survey monument. A second set of observations will be collected using different receivers for redundant measurement and adjustment purposes.

Static observations will be processing using the NGS Online Positioning User Service Projects (OPUS-Projects) utility. All processing will be conducted by an NGS trained OPUS-Projects manager. A processing report will be prepared including adjustment report and a final fully constrained coordinate solutions.

Please note this task is contingent on being onsite for a Post-Storm Survey. No travel or mobilization is included with this task.

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Storm Assessment Report and Coordination with FEMA (Category G Only):

Upon completion of survey data acquisition, APTIM will conduct a volume change analysis to determine changes that occurred as a result of the impact of the Storm. The net change in volume will be calculated for each profile between the most recent pre-storm survey and the post-storm survey. Volume changes within the project areas (Historic Seawall Beach, Babe’s Beach, and Dellanera Beach) will be calculated using the average end area method.

Once the volume change analysis is complete, APTIM will prepare a post-storm assessment report. The report will provide the calculated volume change due to the impact of the storm. Profile drawings will be provided to show a comparison of the current status of the beach with the most recent pre-storm survey conditions. Plan view drawings of the profile data will be provided showing the project limits. Likewise, the report will include survey notes, a description of methodology, and survey monument information. In addition, the post-storm report will include the development of a cost estimate for the restoration of the projects, focused on volume losses resulting from the storm. The cost estimate will consider additional permitting required to construct the restoration project, engineering costs, available sand sources, and direct construction costs. Deliverables will include two (2) hardcopies of the report with USB drives which will include digital versions of the report, appendices, and data.

Once a declaration is made, the State, assisted by FEMA will conduct applicant briefings with the City to inform them of the assistance available and how to apply. The City typically must file a request for Public Assistance with the State within 30 days of the declaration. Following the Applicant’s Briefing, a Kickoff Meeting will be conducted during which time damages will be discussed, needs assessed, and a plan of action will be established. A combined team of Federal/State/local members will proceed with Project Formulation, which is the process of documenting the eligible facility, the eligible work, and the eligible cost for fixing the damages to public facilities identified by State or local representatives. The team will prepare a Project Worksheet (PW) for each project.

APTIM will respond to requests made by the City to participate in this process. This may include, but is not limited to, preparation of letters, providing technical data, attending meetings and participating in conference calls. Our cost estimate to provide these support services assumes the following:

- One (1) in-person meeting is included to present the findings of the post-storm analysis to the City;
- One (1) in-person meeting is included to support the City during meetings with FEMA and State/Local disaster response representatives;
- Preparation of up to two (2) additional requests for information by FEMA or State/Local disaster response agencies;

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- Participation in up to four (4) conference call meetings with City staff to discuss the project.

Post Storm Event Surveying (Category B and G):

If the City determines it wishes to apply for both Categories B and G Public Assistance following a storm, APTIM will conduct a post storm depth of closure and wading depth survey along Galveston Island as described under *Schedule A – Annual Surveys, Year 2, 3, and 4 Surveys*. The methodology to be used will be the same as described under *Schedule A – Annual Surveys, Year 2, 3, and 4 Surveys*. The total number of surveys of each type will be forty-four (44) depth of closure surveys and ninety-six (96) wading depth surveys.

If necessary, APTIM will establish control monuments as described under *Schedule B – Optional Services, Contingency to Restore Control Points*.

Upon completion of survey data acquisition, APTIM will conduct a volume change analysis to determine changes that occurred as a result of the impact of the Storm. The net change in volume will be calculated for each profile along the engineered beaches as previously described. For Category B damages, volume changes will focus on volume lost to the dune system and elevation along the island. Upon completion of post storm analyses, APTIM will prepare a post-storm assessment report in a similar matter described under *Schedule B – Optional Services, Storm Assessment Report and FEMA Coordination (Category G Only)*. The cost included in *Exhibit B – Breakdown of Costs, for Storm Assessment Report and FEMA Coordination (Category B and G)* reflects additional efforts to quantify dune losses outside of the engineered beach sections, additional cost estimating for potential dune repair projects, and an increase in coordination with FEMA to account for Category B Public Assistance.

SCHEDULE C – BEACH MAINTENANCE PLAN

Under 44 CFR 206.226(j)(2), work on improved beaches may be eligible for FEMA Public Assistance (PA) if the project is impacted by a presidentially declared disaster or emergency. Work is eligible under the following conditions: 1) the beach is not a federally constructed shoreline under the specific authority of USACE; 2) the beach was constructed by the placement of imported sand—of proper grain size—to a designed elevation, width, and slope; and 3) that the applicant has established and adhered to a maintenance program involving periodic renourishment with imported sand to preserve the original design.

The latest FEMA guidance further establishes that placement of sand under the following circumstances does not meet this requirement:

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- Emergency or “one-time” nourishment, even if to a design
- Emergency or “as needed” renourishment when the beach has eroded to a critical condition where all of the original nourishment is gone
- Partial renourishment or “hot spot” nourishments
- Renourishment using material from a channel maintenance project, because dredge spoils do not meet compatibility design criteria and the amount placed is dependent on the amount dredged, not the beach design.

APTIM believes that the City can best position itself to be eligible for FEMA public assistance under Category G in the event of future storm impacts, through the development of a Beach Maintenance Plan. This belief is based on APTIM’s long history assisting clients with successfully obtaining FEMA reimbursement for repairs to beach nourishment projects.

APTIM will develop a Beach Maintenance Plan for the City, in order to best position the community for potential Public Assistance funding following a presidentially declared disaster. The maintenance plan will clearly define the beach fill design, document the as-built volume of sand placed, and document the plan for maintaining the project in the future including re-nourishment thresholds and availability of sand sources sufficient to conduct renourishment.

APTIM will utilize previous design documents for the engineered beaches, namely Historic Seawall Beach, Babes Beach, and Dellanera Beach to document the beach fill projects constructed to date. This will include as-built volumes placed during construction. The previous design documents will also be used to document the design criteria for the beach. Furthermore, APTIM will use historic beach profile data to establish erosion rates that will be used to determine the volume of advanced fill needed for future maintenance events.

FEMA guidance asserts that renourishment using material from a channel maintenance project is ineligible because dredge spoils do not meet compatibility design criteria and the amount placed is dependent on the amount dredged, not the beach design. The development of the Beach Maintenance Plan, will include an analysis to determine the sediment compatibility between potential sand sources and the existing beaches.

APTIM will collect eleven (11) samples from specifically defined locations along nine (9) profiles. Six (6) profiles will be taken within the engineered beach projects and three (3) will be taken adjacent to the engineered beach projects. On each profile, five (5) samples will be collected landward of the mean low water (MLW) contour, five (5) samples will be collected seaward of the MLW contour, and one (1) additional sample at the MLW line for a total of eleven (11).

EXHIBIT "A"
SCOPE OF PROFESSIONAL SERVICES
CITY OF GALVESTON, TEXAS
BEST AND FINAL OFFER
RFQ # 18-02 BEACH SURVEY

The sediment samples collected along each profile will be individually analyzed to determine color and grain size distribution. During sieve analysis, the wet, dry and washed Munsell colors will be noted. Sieve analysis of the sediment samples will be performed in accordance with the American Society for Testing and Materials (ASTM) Standard Methods Designation D 422-63 for particle size analysis of soils. This method covers the quantitative determination of the distribution of sand size particles. For sediment finer than the No. 230 sieve (4.0 phi) the ASTM Standard Test Method, Designation D 1140-00 will be followed. Weights retained on each sieve will be recorded cumulatively. Grain size results will be entered into the gINT® software program, which computes the mean and median grain size, sorting, silt/clay percentages for each sample using the moment method.

Upon completion of individual sediment analysis, composite sediment characteristics will be calculated for each profile as well as for each project area. APTIM will obtain information on sediment characteristics for the channel borrow sources previously used to construct the Historic Seawall Beach, Babe's Beach, and Dellanera Park Beach projects from the City and/or its engineer. APTIM will obtain information on sediment characteristics for offshore sand resources from reports developed by APTIM (formerly CPE) in 2007, while working under contract for Galveston and Jefferson Counties. Comparison tables will be provided to show existing beach and borrow source mean grain size, median grain size, sorting, color, and percent fine grained material, which is defined as sediments passing through the No. 230 sieve (4.0 phi). Additional deliverables associated with the sediment compatibility analysis will include maps showing the locations of samples and borrow sources as well as granulometric reports and grain size distribution curves for each sample.

APTIM will prepare a Beach Maintenance Plan to serve as documentation that the City's beach projects meet the PA criteria established by FEMA. This document can then be provided to FEMA if a project is impacted by a presidentially declared disaster. The Beach Maintenance Plan will include a description of the project design, construction activities to date, anticipated volume and cost for maintenance, schedule of maintenance and the monitoring protocols being employed by the City. APTIM will coordinate with the City's staff to identify current and future funding sources and document these in the Beach Maintenance Plan. The Beach Maintenance Plan will also identify supplemental borrow sites available for future projects in order to clearly establish the fact that nourishment of the projects is not dependent on the amount of sand dredged for channel navigation maintenance.

Barring any unforeseen issues, the Beach Maintenance Plan will be delivered to the City ninety (90) days following the collection of beach profile survey data and sediment samples. This schedule is contingent on the City providing the necessary sediment characteristic and as-built data for the Historic Seawall Beach, Babe's Beach, and Dellanera Beach projects in a timely manner. The Beach Maintenance Plan will be

**EXHIBIT “A”
SCOPE OF PROFESSIONAL SERVICES
CITY OF GALVESTON, TEXAS
BEST AND FINAL OFFER
RFQ # 18-02 BEACH SURVEY**

developed in a way consistent with guidance provided by FEMA under Disaster Assistance Fact Sheet 9580.8 issued in October 2009 by Elizabeth Zimmerman. Upon receipt of comments from the City, APTIM will address relevant comments and provide a Final version of the Beach Maintenance Plan. Two (2) hardcopies and two (2) digital copies of the Final Beach Maintenance Plan will be provided to the City at the time of completion.

SCHEDULE D – SHORELINE CHANGE ANALYSIS

This section has been deleted in response to the email from Susan Serrano dated September 4, 2018.

SCHEDULE E – GIS DELIVERABLES

All GIS deliverables specifically described in this proposal will be provided in a format that meets the requested data formats specified in the City’s request for BAFO dated August 7, 2018. Specifically, GIS data files will use ArcGIS metadata format and include the following information:

- Name & alias
- Data tags
- Description of the data – Summary & detailed description, specific to the feature class
- Collection methods and equipment used – how and when data was collected, by whom, and other pertinent information
- Description of codes and attribute field information, field aliases
- Scale and spatial reference
- Source of the data
- Contact information of the person/company who collected and prepared the data
- Statement of issues with the data, appropriate uses, or data sensitivity (how the data should/shouldn’t be used).

No additional cost associated with providing deliverables in this format is required, as our costs for Schedule A – C incorporate the necessary efforts required to provide data in these formats.

The information contained in this proposal is confidential commercial information and shall not be used or disclosed, except for evaluation purposes, provided that if a contract is awarded to APTIM as a result of or in connection with the submission of this proposal, the requester shall have the right to use or disclose the data to the extent provided in the contract. This restriction does not limit the requester's right to use or disclose any technical data obtained from another source without restriction.

**EXHIBIT B:
BREAKDOWN OF COSTS
CITY OF GALVESTON, TEXAS
BEST AND FINAL OFFER
RFQ # 18-02 BEACH SURVEY**

Table 1. Breakdown of the costs associated with Schedule A, B, C, D, and E.

Schedule	DESCRIPTION	Cost
A.	Annual Surveys	
	Year 1 Surveying	
	Depth of Closure Surveys for Engineered Beaches (44 Profiles)	\$55,230
	RTK GPS Wading Depth Surveys (96 Profiles)	\$54,271
	UAS/Drone Proof of Methodology Study	\$12,167
	Year 2 Surveying	
	Depth of Closure Surveys for Engineered Beaches	\$55,230
	Wading Depth Surveys (UAS and 20 Profiles)	\$47,919
	Year 3 Surveying	
	Depth of Closure Surveys for Engineered Beaches	\$55,230
	Wading Depth Surveys (UAS and 20 Profiles)	\$47,919
	Year 4 Surveying	
	Depth of Closure Surveys for Engineered Beaches	\$55,230
	Wading Depth Surveys (UAS)	\$47,919
B.	Optional Services	
	Post Storm Event Surveying (Category G Only)	
	Depth of Closure Surveys for Engineered Beaches	\$55,230
	Contingency Cost to Restore Control Points (up to Four Control Points-2 Days)	\$6,497
	Storm Assessment Report & Coordination with FEMA	\$29,552
	Post Storm Event Surveying (Category B and G)	
	Depth of Closure Surveys for Engineered Beaches	\$55,230
	Wading Depth Surveys (UAS)	\$47,919
	Contingency Cost to Restore Control Points (up to Four Control Points-2 Days)	\$6,497
	Storm Assessment Report & Coordination with FEMA	\$41,027
C.	Beach Maintenance Plan - Optional	\$47,600
D.	Shoreline Change Analysis (Deleted From BAFO at City Request)	N/A
E.	GIS Deliverables (Included with Survey Deliverables)	N/A

**EXHIBIT C:
LIST OF DELIVERABLES
CITY OF GALVESTON, TEXAS
BEST AND FINAL OFFER
RFQ# 18-02 BEACH SURVEY**

The following items have been identified by APTIM as deliverables to the City for the completion of this scope of services.

- Monthly Progress Reports;
- Annual Survey Report/Post-Storm Survey Report;
- UAS/Drone Proof of Methodology Study Letter Report;
- Storm Assessment Report – Optional
- Beach Maintenance Plan - Optional

A detailed description and an individual schedule for each deliverable are provided below.

Monthly Progress Reports: APTIM will provide a 1 page summary of the project status via e-mail approximately every 30 days during the course of the anticipated 4 year contract period. The letter will describe activities completed throughout the month and update the anticipated schedule of milestones as appropriate.

Annual Survey Report/Post-Storm Survey Report: Upon completion of data processing, a report certified by a Texas registered land surveyor detailing survey methods and results will be prepared and provided to the City. The report will include the following items.

1. Control Monument Information (Including UAS GCPs and Survey Control Monuments)
2. Shoreline and Volumetric Change Results
3. Federally compliant metadata
4. Beach Cross-section Plots
5. ASCII XYZ files
6. Ground and Aerial digital photography
7. Survey Field notes
8. Plan-view survey maps

All GIS deliverables will include the requested metadata as described in Exhibit A, under Schedule E.

Barring any unforeseen circumstances, the survey report will be provided within 90 days following completion of survey data acquisition.

UAS/Drone Proof of Methodology Study Letter Report: Results of the accuracy analysis and APTIM's recommendations for future surveys will be provided to the City in a letter report. The deliverable will include 2 hard copies of the letter report with USB drives, which will include

**EXHIBIT C:
LIST OF DELIVERABLES
CITY OF GALVESTON, TEXAS
BEST AND FINAL OFFER
RFQ# 18-02 BEACH SURVEY**

digital versions of the report, as well as applicable data. Barring any unforeseen circumstances, the UAS/Drone Proof of Methodology Study letter report will be provided within 90 days following completion of survey data acquisition.

Storm Assessment Report - Optional: In the event that the City requests APTIM conduct a post-storm assessment, APTIM will prepare a Storm Assessment Report. The report will provide the calculated volume change due to the impact of the storm. Profile drawings will be provided to show a comparison of the current status of the beach with the most recent pre-storm survey conditions. Plan view drawings of the profile data will be provided showing the project limits. Likewise, the report will include survey notes, a description of methodology, and survey monument information. In addition the post-storm report will include the development of a cost estimate for the restoration of the projects, focused on volume losses resulting from the storm. The cost estimate will consider additional permitting required to construct the restoration project, engineering costs, available sand sources, and direct construction costs. Deliverables will include 2 hard copies of the report with USB drives which will include digital versions of the report, appendices, and data. Barring any unforeseen circumstances, the storm assessment report will be provided within 45 days following completion of survey data acquisition.

Beach Maintenance Plan - Optional: APTIM will prepare a Beach Maintenance Plan to serve as documentation that the City's beach projects meet the PA criteria established by FEMA. The Beach Maintenance Plan will include a description of the project design, construction activities to date, anticipated volume and cost for maintenance, schedule of maintenance and the monitoring protocols being employed by the City. The Beach Maintenance Plan will also identify supplemental borrow sites available for future projects in order to clearly establish the fact that nourishment of the projects is not dependent on the amount of sand dredged for channel navigation maintenance.

Barring any unforeseen issues, the Beach Maintenance Plan will be delivered to the City ninety (90) days following the collection of beach profile survey data and sediment samples. This schedule is contingent on the City providing the necessary sediment characteristic and as-built data for the Historic Seawall Beach, Babe's Beach, and Dellanera Beach projects in a timely manner. The Beach Maintenance Plan will be developed in a way consistent with guidance provided by FEMA under Disaster Assistance Fact Sheet 9580.8 issued in October 2009 by Elizabeth Zimmerman.

Upon receipt of comments from the City, APTIM will address relevant comments and provide a Final version of the Beach Maintenance Plan. Two (2) hard copies and two (2) digital copies of the Final Beach Maintenance Plan will be provided to the City at the time of completion.

CITY OF GALVESTON
 IDC BEACH SILO
 5 YR FORECAST
 5/15/2020



	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
1 Est. AVAILABLE TO APPROP as of 9/30	3,761,779	4,499,763	1,620,157	2,454,138	719,226
2 PROJECTED REVENUE (7)	1,175,000	1,219,650	1,265,997	1,314,105	1,364,041
3 PROJECTED INTEREST EARNED	16,000	16,000	16,000	16,000	16,000
4 TOTAL PROJECTED REVENUE for F.Y.	4,952,779	5,735,413	2,902,154	3,784,242	2,099,267
	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
5 Operating Expenses	453,016	448,016	448,016	448,016	448,016
6 Stewart Beach Seaweed- Babe's Beach Vegetation Mit. (1)		190,000			
7 Design for End of Seawall/Dellanera Offshore Breakwater (2)		222,000			
8 Babe's Beach USACE BUDM Renourishment (3)		2,500,000		2,500,000	
9 Seawall Urban Park 12th to 61st Renourishment (4)					500,000
10 Design for 8 Mile Road Project (5)		240,000			
11 Construction for Dellanera Offshore Breakwater (6)				117,000	
12 Babe's Beach FEMA Harvey Repair (8)		75,000			
13 Stewart Beach On-Beach Parking Regrading Project (9)		440,240			
14 TOTAL PROJECTED COST	453,016	4,115,256	448,016	3,065,016	948,016
16 TOTAL AVAILABLE	4,499,763	1,620,157	2,454,138	719,226	1,151,251

Footnotes:

- (1) Moving vegetation to Babe's Beach and redistributing seaweed stockpiles; GLO requirement
- (2) Engineering Design to 65% year one; completion in year 2
- (3) All three Projects total \$24 Million and assume \$18 Million of CEPRA and/or RESTORE Act Funding
- (4) Placeholder for future project
- (5) IDC funds will be used with GLO funds; GLO will run contract through CEPRA program
- (6) If go the HMP route this would be the IDC contribution used with the GLO through the CEPRA Program
- (7) Projected Sales Tax Revenue increase is 3.8% per year, in accordance with the City's "Long Range Financial Forecast - FY 2020-24."
- (8) IDC funds will be used with GLO funds; GLO will run contract through CEPRA program
- (9) Partial component of a larger scope of work; remaining funds coming from Park Board and other potential sources

**CITY OF GALVESTON
IDC ECONOMIC DEVELOPMENT SILO
5 YR FORECAST
5/15/2020**



	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Resources:					
AVAILABLE TO APPROP as of 9/30	2,704,821	1,400,661	1,015,607	676,900	386,300
PROJECTED REVENUE (1)	1,175,000	1,219,650	1,265,997	1,314,105	1,364,041
PROJECTED INTEREST EARNED	7,450	7,500	7,500	7,500	7,500
PROJECTED EXPENSE REIMBURSEMENT	-	-	-	-	-
TOTAL PROJECTED REVENUE	3,887,271	2,627,811	2,289,104	1,998,504	1,757,841
Projected Expenditures:					
ED Silo operating costs (2)	352,204	362,204	362,204	362,204	362,204
Project budgets approved, but not encumbered	327,701				
Current project encumbrances	556,705				
Business Incentive Grants (BIG) program (3)	100,000	100,000	100,000	100,000	100,000
Pelican Island Bridge	900,000	900,000	900,000	900,000	900,000
Infill Redevelopment Program ("Landbank") (4)	250,000	250,000	250,000	250,000	250,000
TOTAL PROJECTED COST	2,486,610	1,612,204	1,612,204	1,612,204	1,612,204
TOTAL AVAILABLE	1,400,661	1,015,607	676,900	386,300	145,637

(1) Projected Sales Tax is in accordance with the City's "Long Range Financial Forecast - FY 2020-24."

(2) As approved in the FY20 operating budget

(3) Must be tied to Primary Job creation, retention or meet another statutory requirement

(4) Authorized up to \$250,000 annually. May be adjusted downward

(5) These projects are related to Cruise Terminal improvements and a Port Master Plan.

Account	Organization	Program	Activity	Date	Type	Document	Description	Commit	Fund	Activity	FY	Transaction Date	Field	Amount	Increase(+)or Decrease(-)
564005	918500	445000	17-Feb-15	JE15	CONV2014	25-Mar-14	AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2014	30-Sep-14	YTD	4,628.98	+
564005	918500	445000	22-Apr-15	JE15	CONV2015		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2015	31-Mar-15	YTD	1,260.00	+
564005	918500	445000	12-Apr-16	INEI	I1606425		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2016	12-Apr-16	YTD	19.24	+
564005	918500	445000	12-Apr-16	INEI	I1606425		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2016	12-Apr-16	YTD	74.52	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	89,092.59	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	460,616.99	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	83,898.02	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	95,088.77	+
564005	918500	445000	20-Jun-16	INEI	I1608084		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	20-Jun-16	YTD	9,410.27	+
564005	918500	445000	25-Jul-16	JE15	J1609151		TO RECLASS I1606425 FM 3194 TO 3192	U	3192	IDCWPK	2016	30-Jun-16	YTD	101.22	+
564005	918500	445000	25-Jul-16	INEI	I1608765		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	25-Jul-16	YTD	321,515.57	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	118,060.65	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	264,405.24	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	1,711.67	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	2,806.46	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	24,664.82	+
564005	918500	445000	9-Jan-17	INEI	I1702042		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2017	9-Jan-17	YTD	20,384.07	+
564005	918500	445000	9-Jan-17	INEI	I1702042		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2017	9-Jan-17	YTD	2,344.88	+
														1,500,083.96	
564005	918500	445000	14-Dec-16	JE15	J1703024		rcls pmts for IDCWPK to WASHPK	U	3192	IDCWPK		14-Dec-16	YTD	(970,000.00)	-
														530,083.96	IDCWPK COST

564005

COMMITMENT

1830 WASHPK

306,076.61 IS THIS AVAILABLE?

224,007.35 IDCWPK COST?

**CITY OF GALVESTON
IDC INFRASTRUCTURE SILO
5 YR FORECAST
5/15/2020**



	FY 2020 Forecast	FY 2021 Forecast	FY 2022 Forecast	FY 2023 Forecast	FY 2024 Forecast	
1						
2						
3	AVAILABLE TO APPROP as of 9/30	4,054,524	4,095,301	4,381,724	170,352	572,531
4	PROJECTED REVENUE (1)	1,175,000	1,217,300	1,261,123	1,306,523	1,353,558
5	Concrete Crew - Customer Payments	40,000	40,000	40,000	40,000	40,000
6	PROJECTED INTEREST EARNED	11,654	10,000	10,000	10,000	10,000
7	TOTAL PROJECTED REVENUE	5,281,178	5,362,601	5,692,847	1,526,876	1,976,089
8	Operating Expenses	585,877	580,877	592,495	604,344	616,431
9	27TH STREET (Phase 2- Seawall to Ave. O)					
	27th Street (Phase 3 - Broadway to Market)	500,000				
10	Downtown Streetscape Improvements			2,830,000	250,000	1,200,000
11	Drainage System Improvements		300,000	2,000,000		
	Pelican Island Bridge	100,000	100,000	100,000	100,000	100,000
12	TOTAL PROJECTED COST	1,185,877	980,877	5,522,495	954,344	1,916,431
13	TOTAL AVAILABLE	4,095,301	4,381,724	170,352	572,531	59,658

(1) Based on City's Long Range Forecast (2020-24)

Account	Organization	Program	Activity	Date	Type	Document	Description	Commit	Fund	Activity	FY	Transaction Date	Field	Amount	Increase(+)or Decrease(-)
564005	918500	445000	17-Feb-15	JE15	CONV2014	25-Mar-14	AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2014	30-Sep-14	YTD	4,628.98	+
564005	918500	445000	22-Apr-15	JE15	CONV2015		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2015	31-Mar-15	YTD	1,260.00	+
564005	918500	445000	12-Apr-16	INEI	I1606425		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2016	12-Apr-16	YTD	19.24	+
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564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	83,898.02	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	95,088.77	+
564005	918500	445000	20-Jun-16	INEI	I1608084		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	20-Jun-16	YTD	9,410.27	+
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564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	1,711.67	+
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564005	918500	445000	9-Jan-17	INEI	I1702042		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2017	9-Jan-17	YTD	2,344.88	+
														1,500,083.96	
564005	918500	445000	14-Dec-16	JE15	J1703024		rcls pmts for IDCWPK to WASHPK	U	3192	IDCWPK		14-Dec-16	YTD	(970,000.00)	-
														530,083.96	IDCWPK COST

564005

COMMITMENT

1830 WASHPK

306,076.61 IS THIS AVAILABLE?

224,007.35 IDCWPK COST?

**CITY OF GALVESTON
 IDC PARKS SILO
 5 YR FORECAST
 5/15/2020**



	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
EST. AVAILABLE TO APPROP as of 9/30	1,360,083	822,776	1,074,549	71,669	716,896
PROJECTED REVENUE (1)	1,175,000	1,219,650	1,265,997	1,314,105	1,364,041
PROJECTED INTEREST EARNED	8,000	8,000	8,000	8,000	8,000
TOTAL PROJECTED REVENUE	2,543,083	2,050,426	2,348,546	1,393,773	2,088,937
Prior Projects Approved	1,106,556	-	-	-	-
Operating Budget	576,877	676,877	676,877	676,877	676,877
Current Encumberances	11,874				
JONES PARK (2)	25,000				
PHASE 1 - SAND HILL CRANE		299,000	1,600,000		1,400,000
PHASE 2 - SAND HILL CRANE					
TOTAL PROJECTED COST	1,720,307	975,877	2,276,877	676,877	2,076,877
TOTAL AVAILABLE	822,776	1,074,549	71,669	716,896	12,060

(1) Projected Sales Tax Revenue increase is in accordance with the City's "Long Range Financial Forecast - FY 2019-23."

(2) This will be used as a match for public-private grant program in the total amount of \$75,000, if additional funds are raised.

Account	Organization	Program	Activity	Date	Type	Document	Description	Commit	Fund	Activity	FY	Transaction Date	Field	Amount	Increase(+)or Decrease(-)
564005	918500	445000	17-Feb-15	JE15	CONV2014	25-Mar-14	AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2014	30-Sep-14	YTD	4,628.98	+
564005	918500	445000	22-Apr-15	JE15	CONV2015		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2015	31-Mar-15	YTD	1,260.00	+
564005	918500	445000	12-Apr-16	INEI	I1606425		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2016	12-Apr-16	YTD	19.24	+
564005	918500	445000	12-Apr-16	INEI	I1606425		AECOM TECHNICAL SERVICES	U	3192	IDCWPK	2016	12-Apr-16	YTD	74.52	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	89,092.59	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	460,616.99	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	83,898.02	+
564005	918500	445000	15-Jun-16	INEI	I1607969		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	15-Jun-16	YTD	95,088.77	+
564005	918500	445000	20-Jun-16	INEI	I1608084		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	20-Jun-16	YTD	9,410.27	+
564005	918500	445000	25-Jul-16	JE15	J1609151		TO RECLASS I1606425 FM 3194 TO 3192	U	3192	IDCWPK	2016	30-Jun-16	YTD	101.22	+
564005	918500	445000	25-Jul-16	INEI	I1608765		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	25-Jul-16	YTD	321,515.57	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	118,060.65	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	264,405.24	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	1,711.67	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	2,806.46	+
564005	918500	445000	29-Aug-16	INEI	I1609734		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2016	29-Aug-16	YTD	24,664.82	+
564005	918500	445000	9-Jan-17	INEI	I1702042		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2017	9-Jan-17	YTD	20,384.07	+
564005	918500	445000	9-Jan-17	INEI	I1702042		GALVESTON COUNTY AUDITOR'S OFFICE	U	3192	IDCWPK	2017	9-Jan-17	YTD	2,344.88	+
														1,500,083.96	
564005	918500	445000	14-Dec-16	JE15	J1703024		rcls pmts for IDCWPK to WASHPK	U	3192	IDCWPK		14-Dec-16	YTD	(970,000.00)	-
														530,083.96	IDCWPK COST

564005

COMMITMENT

1830 WASHPK

306,076.61 IS THIS AVAILABLE?

224,007.35 IDCWPK COST?

Galveston Industrial Development Corp.
 FY 2020 – September 2020 Board Meeting
 as of September 30, 2020



Project	Approved Amount	YTD FY18	YTD FY19	YTD FY20	Amount Expended Inception To Date	Encumbrances as of September 30, 2020	Project Budget / Not Under Contract (yet)	IDC Approval	Council Approval	Status
Beaches										
Dellanera	150,000	-	-	-	-	-	150,000	12/6/2016	2/26/2017	Developing FEMA Mitigation project
Dellanera Breakwater	220,000			-	-	-	220,000	7/7/2020	7/23/2020	Council approved
8 Mile Road	240,000			-	-	-	240,000	7/7/2020	7/23/2020	Council approved
Stewart Beach Parking Elevation	440,240			-	-	-	440,240	7/7/2020	7/23/2020	Council approved
Stewart / Babe's Beach Remediation	190,000			-	-	-	190,000	7/7/2020	7/23/2020	Council approved
Babe's Beach Renourishment	2,500,000			-	-	-	2,500,000	7/7/2020	7/23/2020	Council approved
Babe's Beach / Harvey Repairs	75,000			-	-	-	75,000	7/7/2020	7/23/2020	Council approved
Back Passing Nourishment	75,000		75,000	-	75,000	-	-	1/3/2018	3/22/2018	Council Approved
Babe's Beach Renourishment	2,000,000		2,000,000	-	2,000,000	-	-	1/3/2018	3/22/2018	Project Underway
Structural Solutions	75,000		75,000	-	75,000	-	-	1/3/2018	3/22/2018	USACE project pending
Sand Management Plan Update	90,000				90,000	-	-	12/6/2016	2/26/2017	Expected Compl. 8/2019
Economic Development (3)										
45th Street Corridor - design	1,100,000	715,000	143,000	55,000	1,078,000	22,000	-	3/9/2017	4/27/2017	Construction Underway
West Market 25th - 33rd - (1) (2)	1,650,000	150,855	1,137,506	111,984	1,400,345	110,245	139,410	3/9/2017	4/27/2017	Construction Underway
Airport Runway Project	55,000	-	-	55,000	55,000	-	-	3/5/2019	4/15/2019	Grant application
Infill Redevelopment Project (GEDP)	250,000	-	-	-	-	-	250,000	7/7/2015	8/13/2015	Planning Phase
Parks										
IDC Parks Crew	602,147	97,406	244,740	166,775	508,921	-	93,226	3/6/2018	3/22/2018	Program Underway
Park Package #3	900,000	-	35,939	500,660	536,599	65,632	297,769	3/5/2019	4/15/2019	Underway
Infrastructure										
Harborside Drive (Design)	380,000	96,572	8,013	26,489	367,904	5,839	6,257	1/3/2018	2/22/2018	Project Closeout
Downtown Streetscape	200,000	-	72,325	37,543	109,868	2,682	87,450	8/7/2018	9/13/2018	In design
27th Street Corridor Project Phase II	2,600,000	-	82,295	958,746	1,041,041	533,177	1,025,782	7/10/2018	9/10/2018	Substantially Complete
27th Street Phase III	500,000			170,436	170,436	200,013	500,000	8/6/2019	10/17/2019	Under Construction
25th Street Project	50,000			-	-	50,000	-	4/2/2019	7/25/2019	Under Construction
Concrete Crew	1,767,368	249,193	206,875	351,340	1,749,708	-	17,660	7/7/2015	8/13/2015	257 jobs completed

Notes: