

City of Galveston



Office of the City Manager

P. O. Box 779 / Galveston, Texas 77553-0779 / (409) 766-2150 / FAX (409) 763-4847

Memorandum

File -
Beach

Date: August 9, 1993

To: Honorable Mayor and City Councilmembers
Donald Schattel, Park Board Executive Director

From: Douglas W. Matthews
City Manager *Douglas W. Matthews*

Re: Beach Renourishment Additional Services

I have attached correspondence from Coastal Planning & Engineering, Inc. and my staff regarding additional surveying work on the Beach Renourishment Project.

The additional surveying work is estimated to cost \$39,965.

My staff has presented three options for your consideration. I favor Option 3 which suggest that we seek proposals from local firms to perform the work in order to reduce the travel associated costs of \$10,080.

Since the Park Board of Trustees is advancing the money, their prior approval of the method and the availability of funds is essential before we can move forward.

DWM:gg

Attachment

cc: Kathi Flowers, Public Works Director

RECEIVED
AUG 09 1993
OFFICE OF
PUBLIC WORKS

MEMORANDUM

RECEIVED

AUG 05 1993

TO

Douglas Matthews
City Manager

DATE

August 5, 1993

OFFICE OF
CITY MANAGER

FROM

Kathi L. Flowers
Director of Public Works

FILE

SUBJECT

Beach Renourishment
Additional Services

Attached please find a proposal from Coastal Planning & Engineering, Inc. for additional services for surveying work on the Beach Renourishment.

The existing contract, Section 4.3.2, that the ... "City Manager or his designee, may authorize the Engineer ... to perform surveying services for a cost not to exceed \$15,000.00 an amendment to this agreement shall be required." The amendment must be approved by both the City Council and the Parks Board of Trustees. The attached proposal is for surveying services at an estimated cost of \$39,965.00

The proposal indicates work will be performed at the hourly rates in accordance with our existing contract. However, the existing contract, Section 4.2.3. and Attachment II indicate travel expense shall be limited to a per diem of \$75.00 per day and actual airfare. The proposal for additional survey services includes travel related costs of \$10,080.00 (25.22% of total proposal cost) as follows:

Survey Technician	44hrs travel time @ 55/hr	= \$2,420.00
Survey Technician	44hrs travel time @ 55/hr	= 2,420.00
Survey Technician	12hrs travel time @ 55/hr	= 660.00
Inshore Hydrographer	12hrs travel time @ 70/hr	= 840.00
Hotel	8 nights @ 180.00 (2 rooms)	= 1,440.00
Meals	11 days @ 120.00 (4 Persons)	= 1,320.00
Car Rental	2 @ 50.00	= 100.00
Air Fare	2 @ 440.00	= 880.00

Total Travel Associated Costs = \$10,080.00

The total rate for the four (4) man survey crew is \$235.00 per hour.

Page 2
Beach

Please advise as to how you wish the Public Works Department to proceed on this proposal. Possible options include the following:

- _____ 1) Present proposal "as is" to City Council & Parks Board for approval.
- _____ 2) Request a revised proposal to include terms for travel expense as per existing contract and reduced hourly rate for non-productive travel time.
- _____ 3) Request proposal from local firm to perform work which would not require extensive travel and thereby reduce expense.
- _____ 4) Other _____

KE:rr
cc: file/Beach

COASTAL PLANNING & ENGINEERING, INC.COASTAL & OCEAN ENGINEERING
COASTAL SURVEYS
BIOLOGICAL STUDIES
GEOTECHNICAL SERVICESBOCA RATON: 2481 N.W. BOCA RATON BOULEVARD, BOCA RATON, FL 33431
SARASOTA: 1605 MAIN STREET, SUITE 800, SARASOTA, FL 34236
JACKSONVILLE: 1542 KINGSLEY AVENUE, SUITE 142E, ORANGE PARK, FL 32073(407) 391-8102 TELEFAX: (407) 391-8116
(813) 385-5957 TELEFAX: (813) 854-8036
(904) 264-5039 TELEFAX: (904) 264-5039

August 3, 1993

12,600.00

Ms. Kathi Flowers
Director of Public Works
City of Galveston
P.O. Box 779
Galveston, TX 77553**RE: Proposal for Beach Profile Surveys**

Dear Kathi:

This is our proposal to perform beach profiles for use in the final design of the beach nourishment project as outlined in the Preliminary Design Report. We recommend that the surveys be carried out to more accurately compute the construction volumes for the project.

One of the key elements in the preparation of the plans and specifications is to accurately outline the fill placement quantities relative to locations along the beach (i.e. the volume varies within each groin compartment) and develop final fill quantities for bidding. The more accurately the fill quantities and locations can be developed, the more accurately the final fill costs will be reflected in the bids.

The present cost estimate was developed based on the Corps of Engineers October 1992 profiles. Most of these profiles were taken in the center of each groin compartment (Several profiles were obtained in the groin fillets, however there were not a sufficient number to define all of the groin fillets). This profile layout is not adequate for determining the volume requirements for the beach nourishment project within the groin field. The groins have created fillets on either side which would require a lesser volume of fill during construction. In addition, conditions on the beach may have changed and may require higher or lower volumes of fill.

Profile lines will be established at the center of the groin compartments at the locations previously surveyed by the Corps of Engineers in 1992. In addition, profile lines will be established at each groin fillet to measure the changes in those locations. Profile line establishment on the fillets will be at the historic locations of the Corps of Engineers' profiles; 100 ft east and west of each groin.

RECEIVED
AUG 05 1993
OFFICE OF
PUBLIC WORKS

12,600.00

Ms. Kathi Flowers

August 3, 1993

Page 2

A total of 42 profiles will be surveyed. Profiles will extend from the seawall to a depth of -16 ft. (depth of closure) for use in comparing to future monitoring surveys. We will traverse through all of the monuments to place state plane coordinates at the 0+00 station of each line. We will reestablish any missing monumentation. Coordination for this survey will be maintained with the Corps of Engineers, Galveston District

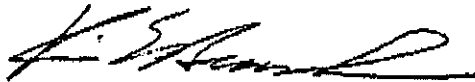
We will reduce the data, and compare it to the 1992 surveys to determine what changes have occurred. We will re-evaluate the beach fill layouts and re-compute the beach fill width for each profile line. Data will be used in the construction plans.

Our cost estimate for this work is \$39,965. A detailed breakdown is attached. We will perform this work at the hourly rates in accordance with our existing contract.

If you have any questions, please call me.

Very truly yours,

COASTAL PLANNING & ENGINEERING, INC.



Kim E. Beachler, P.E.
Vice President

cc: Charles Warner
Tom Campbell, CPE
Beth Gilbert, CPE

KEB/ys

GLV01:Propose.kb

DETAILED HOURLY COST BREAKDOWN
GALVESTON BEACH PROFILES
COASTAL PLANNING & ENGINEERING, INC.
AUGUST 2, 1993

PERSONNEL	CE	PE	IH	ST	ST	ST
A. PROJECT PLANNING/ADMIN.	2	4	8			
B. SHORE CONTROL SURVEY						
1. MOB/RESEARCH/PLAN			4	8	8	8
2. TRAVEL			6	6	22	22
3. SURVEY/RECON			12	12		
4. DEMOB			2	2		
5. DATA REDUCTION			2	4		
C. BEACH PROFILES						
1. MOB/RESEARCH/PLAN			16	16	4	4
2. TRAVEL			6	6	22	22
3. ONSHORE PROFILES			36	36	36	36
4. OFFSHORE PROFILES			24	24	24	24
5. DEMOB			2	2	4	4
7. DATA REDUCTION		2	12	12	12	4
8. VOLUME COMPUTATION	1	4	2	18		
TOTAL HOURS	3	10	132	144	132	132
RATE	120	86	70	55	55	55
SUB-TOTAL	360	860	9240	7920	7280	7280

CE = CHIEF ENGINEER
PE = PROJECT ENGINEER
IH = INSHORE HYDROGRAPHER
ST = SURVEY TECHNICIAN

EQUIPMENT/MISC	TOTAL STATION	LEVEL	MAG. LOCATOR	RAZMUTH	FATH. COASTAL OC.	TRUCK	BOAT	HOTEL	MEALS	CAR RENTAL	AIR FARE
A. PROJECT PLANNING/ADMIN.											
B. SHORE CONTROL SURVEY											
1. MOB/RESEARCH/PLAN											
2. TRAVEL											
3. SURVEY/RECON	1	1	1					1	2	2	400
4. DEMOB								1	2		
5. DATA REDUCTION											
C. BEACH PROFILES											
1. MOB/RESEARCH/PLAN											
2. TRAVEL											
3. ONSHORE PROFILES		1				3		1	2		400
4. OFFSHORE PROFILES						2	2	3	3		
5. DEMOB								2	2		
7. DATA REDUCTION											
8. VOLUME COMPUTATION											
TOTAL DAYS	1	2	1	2	2	5	2	8	11	2	800
RATE	120	80	25	300	145	100	600	180	120	50	1.3
SUB-TOTAL	120	160	25	600	290	500	1200	1440	1320	100	880
JOB TOTAL											

JOB TOTAL \$39,965

COASTAL PLANNING & ENGINEERING, INC.COASTAL & OCEAN ENGINEERING
COASTAL SURVEYS
BIOLOGICAL STUDIES
GEOTECHNICAL SERVICESBOCA RATON: 2481 N.W. BOCA RATON BOULEVARD, BOCA RATON, FL 33431
SARASOTA: 1805 MAIN STREET, SUITE 800, SARASOTA, FL 34238
JACKSONVILLE: 1542 KINGSLEY AVENUE, SUITE 142E, ORANGE PARK, FL 32073(407) 391-8102 TELEFAX: (407) 391-8116
(813) 365-9957 TELEFAX: (813) 954-8036
(904) 264-5039 TELEFAX: (904) 264-5039

August 3, 1993

12,600.00

Ms. Kathi L. Flowers
Director of Public Works
P.O. Box 779
Galveston, TX 77553**RE: Authorization to proceed with Final Design**

Dear Kathi:

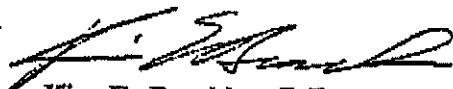
In the recent meetings and presentation on the beach nourishment project Tom Campbell summarized our recommendations for proceeding into final design and two additional items that are needed to adequately complete the design. At this time we are requesting authorization to proceed with:

- A. Final Design per our existing contract.
- B. Boddecker Dr. Channel design and survey (proposal submitted on 7/6/93)
- C. Beach profile surveys (proposal attached)

We will need to begin this work immediately to keep the project on schedule for an October bid date. Please let us know how you want to proceed.

If you have any questions, please call me or Tom.

Very truly yours,

COASTAL PLANNING & ENGINEERING, INC.Kim E. Beachler, P.E.
Vice President

KEB/ys

cc: Tom Campbell, CPE
Charles Warner

GLV01:Flowers.kb