



VILLAGE OF KEY BISCAYNE

Office of the Village Manager

Village Council

Robert L. Vernon, *Mayor*
Jorge E. Mendia, *Vice Mayor*
Michael Davey
Enrique Garcia
Steve Liedman
Thomas Thornton
Patricia Weinman

Village Manager

Genaro "Chip" Iglesias

DT: July 2, 2008

TO: Honorable Mayor and Members of the Village Council

FR: Genaro "Chip" Iglesias, Village Manager

RE: Seagrass Mitigation Monitoring

RECOMMENDATION

It is recommended that the Village Council approve the attached Resolution which authorizes Coastal Systems International, Inc. (CSI) to perform Monitoring of Seagrass Mitigation Services for the Village of Key Biscayne Beach Renourishment Project.

BACKGROUND

Coastal Systems International, Inc. has been retained by the Village as the Engineer in connection with services needed for the Beach Renourishment Project. It is in the best interest of the Village to utilize CSI for the purpose of providing seagrass monitoring and reporting services upon completion of seagrass restoration work to be performed by CSA International, Inc. The Florida Department of Environmental protection permit requires 1.26 acres of off-site seagrass mitigation and an additional 0.07 acres of off-site mitigation. There are twelve (12) monitoring events included in the attached scope of services. Monitoring events are on a quarterly basis for Year 1 and on a biannual basis for Years 2 through 5.

Funding for the Mitigation Mapping Services will be obtained from the beach renourishment line item in the capital outlay and will not exceed \$432,000.

RESOLUTION NO. 2008- _____

A RESOLUTION OF THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AUTHORIZING THE FURTHER PROCUREMENT OF ENGINEERING SERVICES FOR THE VILLAGE OF KEY BISCAYNE, FROM THE FIRM OF COASTAL SYSTEMS INTERNATIONAL, INC.; PROVIDING FOR APPROVAL OF WORK AUTHORIZATION CONCERNING MONITORING OF SEAGRASS MITIGATION; PROVIDING FOR IMPLEMENTATION; PROVIDING FOR EFFECTIVE DATE.

WHEREAS, pursuant to a contractual agreement previously entered into between the Village of Key Biscayne and Coastal Systems International, Inc. (the "Engineer"), the Engineer has been retained by the Village in connection with services needed for the Village of Key Biscayne Beach Renourishment Projects; and

WHEREAS, the Engineer, pursuant to its continuing contract, has proposed to perform certain seagrass monitoring and reporting services for the Village upon completion of seagrass restoration work to be performed by CSA International, Inc.; and

WHEREAS, the Village Council finds that it is in the best interest of the Village to utilize the Engineer for the purpose of monitoring the seagrass restoration and reporting thereon, as described in the attached Work Authorization and proposal.

NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AS FOLLOWS:

Section 1. **Recitals Adopted.** That each of the recitals stated above is hereby adopted and confirmed.

Section 2. **Work Authorized.** That pursuant to the existing continuing contract between the Engineer and the Village, the performance of seagrass monitoring services and

reporting thereon, as described in the Work Authorization and proposal attached hereto, is hereby approved.

Section 3. Agreement Approved. That the Village Manager is hereby authorized to execute the Work Authorization in substantially the form attached hereto, for the engineering work authorized hereunder between the Village and the Engineer, once approved by the Village Attorney as to form and legal sufficiency.

Section 4. Implementation. That the Village Manager is hereby authorized to take any necessary action to implement the purposes of this Resolution and the attached Work Authorization and proposal.

Section 5. Effective Date. That this Resolution shall be effective immediately upon adoption hereof.

PASSED AND ADOPTED this ____ day of July, 2008.

ROBERT VERNON, MAYOR

ATTEST:

CONCHITA H. ALVAREZ, CMC

VILLAGE CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

Village Attorney



COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway • Coral Gables, Florida 33146
Tel: 305-661-3655 • Fax: 305-661-1914
www.coastalsystemsint.com

135040.01-A

July 2, 2008

Mr. Armando Nunez
Public Works Director
VILLAGE OF KEY BISCAYNE
88 West McIntyre Street
Key Biscayne, Florida 33149

RE: CONSULTING SERVICES FOR THE VILLAGE OF KEY BISCAYNE RELATIVE TO SEAGRASS MITIGATION MONITORING, MIAMI-DADE COUNTY, FLORIDA

Dear Mr. Nunez:

Coastal Systems International, Inc. (Coastal Systems) is pleased to present this proposal for consulting services relative to seagrass mitigation monitoring for the Village of Key Biscayne (Village). The following parts describe the scope of work to be performed by Coastal Systems and present the terms of agreement between Coastal Systems and the Village:

PART 32 – SEAGRASS MITIGATION MONITORING

Coastal Systems will monitor the success of the seagrass mitigation project described in the “Seagrass Restoration and Mitigation Plan: Village of Key Biscayne” recently issued in draft format by CSA International, Inc. This draft mitigation plan is still pending regulatory agency approval. Any amendments of scope, such as requirement to monitor seagrass donor sites, required upon agency authorization of the final plan or based upon as-built seagrass mitigation project conditions or other external factors will be addressed as an amendment to this scope.

The Florida Department of Environmental Protection (DEP) Permit Modification No. 016086-010-EM requires 1.26 acres of off-site seagrass mitigation and an additional 0.07 acres of off-site mitigation is recommended in lieu of on-site mitigation within the pipeline corridor. The draft mitigation plan consists of restoration of 192 sites within 4 areas covering an area of 1.338 acres. Specifically, seagrass mitigation monitoring is anticipated to assess the success of transplantation efforts and natural re-colonization of seagrass at approximately 5% of the mitigation sites. The monitoring will consist of an assessment using a modified Braun-Blanquet technique to document the community composition and percent cover of seagrass within the off-site mitigation areas and background reference areas. Qualitative still photos and video data will also be collected to document mitigation site conditions.

Twelve (12) monitoring events are included in this scope of services (see attached Table 1), following the time “zero” post-construction report, on a quarterly basis for Year 1 and a bi-

135040.01
Mr. Armando Nunez
July 2, 2008
Page 2

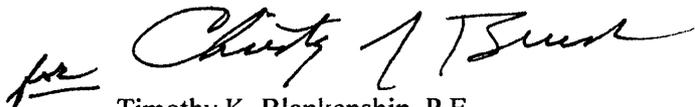
annual basis for Years 2 through 5. Reports summarizing the seagrass mitigation monitoring data will be submitted to the DEP, U.S. Army Corps of Engineers, and Miami-Dade County Department of Environmental Resources Management for their files. Any additional discussion or negotiation required with the regulatory agencies regarding permit compliance will be addressed under a separate general administration scope of services.

GENERAL

Estimated fees and expenses are summarized in the attached Table 1. This fee proposal is valid for sixty (60) days. These services will be provided as an addendum to Coastal Systems' agreement dated August 1, 2006. Coastal Systems is not responsible for circumstances beyond our immediate control, including but not limited to, rule or legal interpretation changes, Client or agency staff delays, physical site impacts, additional coordination with regulatory agencies, additional agency mitigation monitoring requirements, litigation or other legal actions.

We look forward to working with the Village to fulfill the seagrass mitigation requirement. Should you have any questions, please do not hesitate to contact Penny Cutt, Environmental/Permitting Regional Manager at 305-333-6971 or pcutt@coastalsystemsint.com, or me at 305-669-8650 or tblankenship@coastalsystemsint.com.

Sincerely,
COASTAL SYSTEMS INTERNATIONAL, INC.



Timothy K. Blankenship, P.E.
Director

SIGNED: _____ DATE: _____
VILLAGE OF KEY BISCAYNE

PRINT: _____
Name Title

TKB:

TABLE 1
SUMMARY OF COSTS FOR CONSULTING SERVICES
VILLAGE OF KEY BISCAYNE SEAGRASS MITIGATION MONITORING

DESCRIPTION	TYPE	TOTAL COST
Part 32 - Seagrass Mitigation Monitoring		
a. Month 3 Monitoring and Report	Estimated	\$ 36,000
b. Month 6 Monitoring and Report	Estimated	\$ 36,000
c. Month 9 Monitoring and Report	Estimated	\$ 36,000
d. Month 12 Monitoring and Report	Estimated	\$ 36,000
e. Month 18 Monitoring and Report	Estimated	\$ 36,000
f. Month 24 Monitoring and Report	Estimated	\$ 36,000
g. Month 30 Monitoring and Report	Estimated	\$ 36,000
h. Month 36 Monitoring and Report	Estimated	\$ 36,000
i. Month 42 Monitoring and Report	Estimated	\$ 36,000
j. Month 48 Monitoring and Report	Estimated	\$ 36,000
k. Month 54 Monitoring and Report	Estimated	\$ 36,000
l. Month 60 Monitoring and Report	Estimated	\$ 36,000
Subtotal:		\$ 432,000
GRAND TOTAL:		\$ 432,000

Note: Estimated costs include hourly fees and expenses. Coastal Systems will make a concerted effort to maintain costs within this estimate but will advise the Village if a change in scope is required due to circumstances that are unknown or undefined at this time.