



Naismith Engineering, Inc

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February 18, 2013

Scott Cross
Director of Coastal Parks
Nueces County
15820 Park Rd. 22
Corpus Christ, TX 78418

**Re: Naismith Engineering Project Team
Cost Proposal for CIAP Professional Services
Habitat Restoration and Conservation at Packery Channel Park
(CIAP FY 2008 Competitive Project)**

Dear Mr. Cross,

As per your request we are providing this Cost Proposal for Professional Services to assist Nueces County Coastal Parks with performing the CIAP FY2008 Competitive Project titled "Habitat Restoration and Conservation at Packery Channel Park (hereafter Packery Channel Park Habitat Project)". The Naismith Engineering Project Team (NEI Project Team) has the combined ecological, environmental, regulatory, and coastal planning capabilities to satisfy your CIAP Project. The NEI Project Team also contributes the specific knowledge and experience necessary to satisfy all the goals and objectives of a CIAP funded habitat and park project in the Mustang Island-North Padre Island Project Area. The NEI Project Team experience gained from preparing the original Packery Channel Park Master Plan, the Nueces County Coastal Parks Master Plan, and other technical support with the TPWD Outdoor Recreation Grant Application, and completed CBBEP funded park improvements will help ensure meeting all your CIAP grant award deliverables and budget in a timely and cost effective manner. The NEI Project Team includes Vega Environmental. This Cost Proposal and Scope-of-Work conforms to the subject FY2008 Competitive CIAP Grant Award including the Project Narrative and related tasks and deliverable (see attached Grant Award Project Narrative). In addition, this cost proposal will address facilities involved with expected minor amendments to the Grant Award recently coordinated between Nueces County Coastal Parks and the TxGLO involving bollard and security gate habitat protection controls, added parking, habitat restoration area maintenance path, removal of the overhead power line, and reducing the habitat restoration areas from 4 acres to approximately 1.5 – 2.0 acres. The previous larger aquatic feature (pond) has been omitted and instead it is planned to incorporate 2-3 bird-drip stations. The plans for shoreline protection involving a "living shoreline" articulated block with marsh planting will not be involved in the CIAP Project and will be a future park improvement consideration pending other funding opportunities. However, initial permitting analysis and alternatives review/agency coordination involving the "living shoreline" erosion protection alternatives will be incorporated into this CIAP Project.

TBAE Firm 13553 ■ TBPE Firm 355 ■ TBPG Firm 50017 ■ TBPLS Firm 100395-00

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The Professional Services for the CIAP FY 2008 Competitive Project generally involves the following tasks: Project Management, Technical Support on CIAP Progress Reporting, finalizing Public and Resource Agency Involvement, Habitat Restoration Design and Construction, Living Shoreline Permitting Analysis and Alternatives Review, Permitting/Design/Construction of the amended CIAP facilities, Construction Contractor Bid Solicitation, Construction Management, preparation of the Packery Channel Nature Park Master Plan "Update", preparation of the Habitat Management Plan, and Habitat Restoration Performance Monitoring and Maintenance. These Professional Services will be funded under the CIAP FY 2008 Competitive Project which has an approved State Plan CIAP budget of \$550,773.00 for professional services and construction. The County services provided for this project include CIAP Grant Administration. Nueces County Coastal Parks will perform all duties related to CIAP Grant Administration including accounting and reporting to the grantor, USFWS.

The project scope of work is further itemized as follows:

- Project Management (Participation at Park Board and Commissioner Court meetings, meetings/conference calls/email communications with Parks Director).
- Coordination with the Nueces County Coastal Parks during their grant administration activities and assist the County involving their communications with grantor (USFWS) involving support with monthly, semi-annual, and annual progress reporting, and deliverables.
- Evaluate potential USACE/TXGLO/ City permitting needs and approvals and obtain any necessary permits/approvals.
- Evaluate alternative designs and approaches involving habitat restoration, native habitat landscaping, drip irrigation, water supply sources, coordinate with professional nurseries and vegetation suppliers.
- Perform preliminary shoreline protection alternative review and permitting review (not actual permitting) to identify an appropriate "living shoreline erosion control" plan. The habitat coordination with USACE/TxGLO stakeholders and resource agencies can also be used to obtain comments on a preferred plan for future permitting and construction involving other future funding opportunities.
- Finalize the stakeholder and resource agency involvement program (previously started with the CIAP application) involving the habitat restoration design, master plans, habitat management plan, and the maintenance plan.
- Prepare final design plans and specifications for bid solicitation for the habitat restoration construction (vegetation, watering systems etc.), parking area, bollards, maintenance path, security gate, pole removal.
- Coordinate the contract bid advertisement and solicitation.
- Evaluate the bids and provide construction bid recommendations.
- Provide Construction Management and Oversight.
- Develop a Habitat Management Plan including habitat restoration features and operations and maintenance utilizing input from the stakeholder and agency involvement program.
- Update the Packery Channel Park Master Plan (see attached Preliminary Draft Plan).



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- Evaluate and select a subcontracted landscape/nursery expert to provide Habitat Post Construction monitoring and maintenance support as coordinated and managed by the NEI Project Team and particularly Vega Environmental. The maintenance and monitoring period will be for one (1) year following construction, and will involve weekly (for four months) then monthly (eight months) site inspections, training of volunteers and County staff to then take over the long term maintenance after the initial one (1) year period.

The cost estimate to provide these services is not to exceed \$82,520.00. In addition, it will be necessary for a subcontracted landscape/ecologist professional to routinely inspect and maintain the constructed habitat. The Cost Estimate to provide the habitat monitoring and maintenance service for the one year period is \$24,860.00 and would primarily include services from Vega Environmental and a landscape/habitat contractor. The detailed scope for performing these maintenance services would be developed as part of the Habitat Management Plan. The "Habitat Maintenance Services" will be better defined and are also influenced by warranties provided by suppliers of vegetation for the woodland planning, the public/agency comments, and the role of County Maintenance personnel. Attached is the Cost Estimate Summary to provide the aforementioned services.

We greatly appreciate your time and consideration of this matter and look forward to working with you. We can meet to incorporate this Cost Proposal into a Nueces County Contract for Professional Services.

Please feel free to contact me at (361) 814-9000 or at dsullivan@naismith-engineering.com if you have any questions.

Sincerely,

David E. Sullivan,
Manager, Environmental and Planning
Naismith Engineering, Inc.

DES/jaf

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NUECES COUNTY
HABITAT RESTORATION AND CONSERVATION
AT PACKERY CHANNEL PARK PROJECT
COST ESTIMATE FOR PROFESSIONAL SERVICES
(2/18/2013) (CONT)

FEE SCHEDULE

Task 5.0	Habitat Management and Maintenance Plan	
Task 5.1	Prepare Draft and Final Habitat Management Plan	\$5,500
Task 5.2	Prepare Monitoring/Maintenance Plan	\$2,500
Note:	The final Habitat Management/Maint Plans will include guidelines from the Stakeholder/Agency Involvement Program	\$1,840
	SUBTOTAL	\$9,840
	PROFESSIONAL SERVICES SUBTOTAL	\$82,520

III. CONSTRUCTION ESTIMATE

Task 6.0	Habitat Restoration	
Task 6.1	Vegetation Purchase/Delivery/Installation-Planting (Phased)	\$222,980
Task 6.2	Water System Selection/Installation/Water Fees (Drip Irrigation, City Waterline)	\$50,000
Task 6.3	Excavating/Grading for Habitat Planting Area	\$20,000
Task 6.4	Invasive Removal (Semiannual for one year)	\$5,000
Task 6.5	Replanting/Replacement/Restore Damaged Plants	\$50,000
Task 6.6	Maintenance Path/Bollard Control/Security Gate	\$20,000
Task 6.7	Removal of Overhead Power	\$ 5,000
Task 6.8	Maintenance Path	\$45,000
Task 6.9	Parking	\$35,000
	CONSTRUCTION SUBTOTAL	\$452,980

IV. POST CONSTRUCTION MONITORING/MAINTENANCE

Task 7.0	Post Construction Monitoring and Habitat Maintenance (1 year)	
Task 7.1	Weekly then Monthly Inspection (12 weekly and 9 monthly)	\$6,720
Task 7.2	Inspection Reports (21 reports)	\$9,720
Task 7.3	Continued Herbicide/Pesticide Control Program (Semi-monthly, 6 applications)	\$1,920
Task 7.4	Habitat/Landscape Maintenance Training of County/Volunteer Staff	\$2,500
Task 7.5	Coordinate Replanting/Replacement Program	\$4,000

Note: Annual Monitoring/Maintenance training of County Staff and then transfer responsibility to County

MONITORING/MAINTENANCE SERVICE TOTAL \$24,860

NUECES COUNTY
HABITAT RESTORATION AND CONSERVATION
AT PACKERY CHANNEL PARK PROJECT
COST ESTIMATE FOR PROFESSIONAL SERVICES
(2/18/2013)

FEE SCHEDULE

I. PROJECT MANAGEMENT

Task 1.0	Project Task Schedule and Budget	\$2,875
Task 1.1	Coordination with Coastal Parks Department	\$2,520
Task 1.2	Participation at Board Meetings and Commissioners Court	\$2,630
Task 1.3	Monthly Progress Reports, Semi-Annual and Annual Reports (12 month project schedule)	\$4,600
SUBTOTAL		\$12,625

II. PROFESSIONAL SERVICES (HABITAT PLANNING, SURVEY, PERMITTING, DESIGN)

Task 1.0	Design, Plans and Specifications	
Task 1.1	Design of Habitat Restoration (Vegetation/Bird Drip Stations)	\$17,625
Task 1.2	Design of Water Supply/Drip Irrigation System	\$ 5,000
Task 1.3	Design of Habitat Protection Facilities (Bollards, Security Gates)	\$2,750
Task 1.4	Design Parking and Maintenance Path	\$4,000
Task 1.5	Professional Nursery Vendor and Vegetation Selection (receive and recommend vendors to Board)	\$3,500
Task 1.6	Construction Bid Solicitation Process/Contracts	\$2,500
SUBTOTAL		\$35,015

Task 2.0	Surveys, Topographic Mapping	
Task 2.1	Land Survey/Topographic Survey Update	\$1,000
Task 2.2	New Boundary Survey/LSLS	\$5,000
Task 2.3	Wetlands Delineation Update/Verification	\$2,300
Task 2.4	Habitat Characterization Mapping	\$2,300
Task 2.5	Water Availability Review (groundwater/City Water)	\$2,300
SUBTOTAL		\$12,900

Task 3.0	USACE and TxGLO Permit Analysis	
Task 3.1	Permit Determination/Coordination with USACE/TxGLO	\$1,600
Task 3.2	City Water Permit	\$ 800
Task 3.3	Living Shoreline Alternative/Permitting Review	\$ 1,500
SUBTOTAL		\$3,900

Task 4.0	Stakeholders and Resource Agency Involvement	
Task 4.1	Project Summary/Fact Sheet (1 fact sheet)	\$ 600
Task 4.2	Advisory Group/Facilitate Meeting (1 meetings)	\$ 1,200
Task 4.3	Prepare Habitat Restoration Design Guidelines	\$1,840
Task 4.4	Prepare Habitat Management Guidelines	\$1,840
Task 4.5	Prepare Packery Channel Master Plan Update Recommendations	\$2,760
SUBTOTAL		\$ 8,240