



Addendum #2
Penguin Life Support System Upgrade
Consultant Services
RFP 10-1558-ZOO

The following information is to be taken into account in preparing the proposal:

1. **CONSULTANT QUESTIONS, CORRECTION:** Consultant questions are due, via e-mail, prior to 4:00 PM, Thursday, November 19. Answers will be issued, to attendees of the Pre-Proposal Conference, by Tuesday, November 24. Recipients of the addendum are responsible for distribution to other members of their team.
2. **LEAD CONSULTANT CLARIFICATION:** The “Lead Consultant” can be either an Architect or a Life Support System Engineer. The Proposal should describe how the team will work and the responsibilities of each party. The term “Architect”, in Attachment B, can be replaced with “Lead Consultant”. The proposals should identify who is responsible for “Lead Consultant” responsibilities.
3. **ROCKWORK / EXHIBITRY CHANGE:** Rockwork patching, repair and reconfiguration will be included in the bid construction documents, and are to be designed by the consultant team (with Zoo review and approval). Consultant drawings should include any structural requirements necessary for the contractor to adequately bid the work. Zoo staff will NOT be performing any exhibit changes. Exhibit work and rockwork changes will only be shown where required to install aquatic life support system changes and will not constitute a major design element for this project.
4. **LANDSCAPING / IRRIGATION CLARIFICATION:** Zoo staff will work with Lead Consultant to include relevant landscape and irrigation information in a site plan, showing construction staging areas and all site work associated with the construction.
5. **BUDGET CLARIFICATION:** \$ 700,000 budget is for direct construction, and does NOT include consultant fees, permit fees, inspection fees and other soft costs. The direct construction cost includes all rockwork and site work associated with the construction.
6. **BID DOCUMENT CLARIFICATION:** Up to five (5) bid alternates may be identified to insure the project may proceed with the direct construction budget of \$ 700,000.
7. **GEOTECHNICAL WORK CLARIFICATION:** Geotechnical work (if needed) is to be provided by the consultant team.
8. **QUALIFICATIONS CLARIFICATION:** In Section III of the RFP (Qualifications), delete the requirement for Environmental qualifications.
9. **DESIGN DEVELOPMENT DELETION:** In Paragraph B.7 of Attachment B, delete the sentence, “Architect shall coordinate its work with the work of the Zoo’s separate contracts for this project.”

10. **DESIGN DEVELOPMENT DELETION:** In Paragraph B.9 of Attachment B, delete the sentence: “In addition, Architect shall prepare and deliver to Zoo two final colored renderings, depicting views selected by the Zoo.”
11. **ANIMAL CLARIFICATION:** There will be a maximum of thirty (30) penguins in the exhibit. Other birds will also be in the exhibit (numbers to be confirmed by Zoo staff during Design Development).
12. **EXISTING DRAWING CLARIFICATION:** The “existing” drawings reflect the 1982 remodel but have not been updated to reflect all existing conditions (i.e. there is no longer ultra-violet or chemical treatment). These drawings are a starting place for design. Consultants will work with Zoo staff to verify actual conditions.
13. **HVAC SYSTEM CLARIFICATION:** As part of an evaluation of the adequacy of the existing HVAC systems, consultants will evaluate the system for odor control in the visitor area. Review of the adequacy of temperature and air filtration in the animal area should also be included.
14. **ELECTRICAL SYSTEM CLARIFICATION:** As part of an evaluation of the existing electrical system, consultants will a) verify capacity for the new equipment; b) evaluate exhibit lighting and recommend modifications, as a bid alternate.
15. **WATER CLARIFICATION:** Salt water vs. Fresh water pros and cons will be evaluated by the consultant team.
16. **MEETING CLARIFICATION:** For the purpose of the proposal, consultants should anticipate at least one member of the team will attend the following (15) meetings:
 - a) Six design meetings: 1) Kick-off Meeting; 2) 100% Schematic Design Review; 3) 50% Design Development Review; 4) 100% Design Development Review; 5) 85% Construction Documents Review; 6) 100% Construction Documents / City Permit Review.
 - b) One Pre-bid Meeting w/ contractors
 - c) Eight construction meetings: 1) Kick-off Meeting (Pre-Construction); 2), 3), 4) Construction Progress Meetings; 5) Punch list; 6) Start-up.

The Lead Consultant is responsible for coordinating all information for the sub consultants, as needed. Sub consultants will attend the meetings as deemed necessary by the Project Team. The sub consultants may participate in some meetings by phone and information can be relayed via e-mail.
17. **SCHEDULE CLARIFICATION:** Proposals should include a proposed schedule for consultant work from Schematic Design through Construction Documents. The schedule should indicate Zoo review times associated with the six design milestone meetings, listed, above (# 16). The Zoo will respond with comments, within the established review period. At the end of design work, consultants will identify a reasonable “Contract Time” for contractors, based on the completed design.
18. **TERMINOLOGY CLARIFICATION:** For the purpose of this proposal, “sustainable closed-loop system” refers to a water system that does not discharge water to the ground and discharges a minimum of water to the City sanitary sewer system, maximizing water savings.

19. **WATER QUALITY PARAMETER CLARIFICATION:** The chart, below, indicates water quality parameters to be considered by the consultant team. The desirable parameters will be verified by consultants during Schematic Design.

	EXISTING	DESIRABLE
PH	6.4 – 7.83	7.5 – 8.0
Alkalinity	6 – 53 mg/L	30 +
Ammonia	0.00 – 0.34 mg/L (with buffering)	0 – 0.20 mg/L (w/o buffering)
Nitrite	0.066 – 0.584 mg/L	0 – 0.100 mg/L
Nitrate	14.2 mg/L	0 – 100 mg/L
Turbidity	0.45 – 0.96	?
Temperature	68 degrees	Less?
Turnover	6 – 8 x / day	More?
Flow Rate	140 GMP (by faceplate only)	?
Sand Filtration	25 sq. of surface area	?
Biological Filtration	?	?
Estimated bio-load	17 lbs/ day	17 lbs/ day
Surface Skimming / Water Circulation		

20. **PRE-PROPOSAL ATTENDANCE:** The Pre-Proposal attendance list was submitted to attendees on 11-13-09. Please contact me if you did not receive this list.