

**TECHNICAL SPECIFICATIONS FOR
CABIN LIFT STATION REPAIR**

**SOUTH TOLEDO BEND STATE PARK
SABINE PARISH**

**PREPARED BY:
FACILITY SERVICES SECTION
OFFICE OF STATE PARKS
DEPARTMENT OF CULTURE, RECREATION AND TOURISM**

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TECHNICAL SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

01010 Summary of Work

The Contractor shall provide all labor, materials and equipment necessary to complete the following items of work:

1) Rehab one (1) existing lift station near Boat Launch at South Toledo Bend Park.

All linear footage measurements are estimated, contractor is to verify all measurements in the field. All are to be field located by the Project Inspector. The desired number of days for this construction and the best window of time when the facility is not in use shall be coordinated with the project inspector and the park manager at the pre-construction meeting. This work is to be completed with as much expediency as possible in order to keep the inconvenience of the patrons using the facility to a minimum.

Any damage to the site, utilities or buildings will be repaired by the contractor at no additional cost to the State of Louisiana.

Unless specified otherwise all materials shall be new, manufactured items suitable for their intended use, installed according to manufacturer's directions or customary good trade practices, and in all cases materials and workmanship shall comply with all applicable building codes. Workmanship shall be at least as good as normal good trade practices with all lines, elevations, surfaces, finishes, etc. like those shown in the plans and/or contained in specifications.

01015 Contractor's Use of Premises

- 1) The Contractor shall have free use of restrooms and reasonable use of electrical power and water for construction purposes. In no way shall the contractor's use of the park impair the park's use or condition. The contractor shall promptly repair any damage to the satisfaction of the Inspector.
- 2) Free lodging of laborers on grounds is not permitted. Further, the contractor shall be subject to all other Park Regulations applying to the public.
- 3) The Contractor shall schedule his work to provide no interference with park visitation and shall keep utility outages to the minimum length required for construction.

01041 Project Coordination

The Project Inspector shall be the Office of State Parks' Project Inspector, Jeff Jones ofc (318-357-3192) or cell (318-393-0596), and his decision shall be final in all interpretations of the plans and these specifications. All communications shall be through the Project Inspector. Cooperate with the park manager in all matters pertaining to scheduling correlations with the public, access to the site and on site material storage.

01050 Field Engineering

The contractor is responsible for all quantities, measurements, and grades. Provide rough and final staking, elevations and benchmarks as required by the Inspector for approval.

01051 Grades, Lines, and Levels

All construction shall be plumb, level and true to the lines shown on the plans. All slopes shall be consist and drain as intended. The Inspector shall instruct the contractor on any incidental construction that may be necessary to accomplish a functional project. Slope to drain always.

01060 Regulatory Requirements

- 1) Obtain all permits, pay all fees, record the contract and comply with all state, federal and local requirements. All construction shall comply with the International Building Code for State-Owned Buildings. If either any provision of these specifications or the plans are in conflict with any code, the contractor shall notify the Inspector before construction or the contractor shall make remedial changes to bring the work into compliance at no additional cost to the state.
- 2) Safety is part of this contract. Abide by OSHA and all other safety regulations and take all other measures necessary (such as barriers, fences, warning signs, protective clothing, etc.) to protect the public and workmen.
- 3) Temporary Scaffolds, Staging and Safety Devices - The contractor shall provide, erect, maintain and remove, when directed, all scaffolding, staging, platforms, temporary flooring, temporary runways, guards, railing, stairs and ladders necessary for reaching all portions of the work conveniently and safely and as required by local, federal and state codes or laws for the protection of workmen and the public.
The construction, inspection and maintenance of the above items shall comply with all safety codes and regulations, as applicable to the project.
- 4) Fire Protection - Verify availability and location of existing onsite fire protection

equipment. Provide additional temporary equipment as required by applicable safety standards.

01150 Measurement and Payment

- 1) Bids - The Contractor's bid shall be lump sum with no qualifications, informalities, or item payments or the bid will be disqualified.
- 2) Add alternates - If add alternates are part of project the contractor shall note them and their amount on his bid. The low bid, including any add alternates, will be accepted if that bid is within the construction budget, otherwise the bid will be awarded on the basis of the base bid.
- 3) Partial payments - See Progress Payments and Acceptance in bid documents. If the contractor requests partial payments, they shall be made using the invoice and schedule of values forms supplied in these specifications. The approved schedule of values shall be based upon the divisions of these specifications except that the value of Division One shall be zero. Upon completion of the project (acceptance), payment will be authorized for 90% of the contract amount (10% retainage) less the value of all punch list items which shall be computed at the actual cost of the items. No partial payments on the punch list. The Inspector's decision on payment approval shall be final.
- 4) Change orders - All changes in the work involving the contract amount, scope of work, or contract time shall be made only by change orders. Change orders shall be prepared by the contractor as directed by the Inspector and approved by State Purchasing and the Inspector prior to the work/change being done.

Change orders shall contain:

- a) An itemized list of material and labor costs for each subcontractor's work including quantities and unit costs for each item of labor and material, labor and material cost need to be shown separately.
- b) Same as above for contractor's labor and material.
- c) Overhead and profit.
- d) Time.

- 5) Quantities - All quantities and dimensions expressed in the plans and these

specifications reflect the intent of the project and best knowledge of State Parks. They are for the guidance of the Contractor and shall be verified by the Contractor. If discrepancies or errors exist, the inspector shall be notified prior to construction.

01200 Project Meetings

A pre-bid conference will be held at the job site and prospective bidders are expected to be familiar with site conditions and bid procedures.

PRE-BID DATE: 10-12-16 at 10:00 AM

After the contract is let, a pre-construction conference shall be held before commencing work. Progress meetings shall be held at least monthly to review the progress and quality of the work and to review requests for partial payment. At the completion of work, a Final Inspection shall be held after at least a **three (3) day notice** by the Contractor to prepare a punch list (if necessary) of items to be addressed before acceptance.

01300 Submittals

1) As equal determinations- Manufacturer's brand names, colors and model numbers are used for the sole purpose of obtaining competitive bids. Substitutions of products of other manufactures equal to or superior to those listed may be acceptable if approved by the Inspector prior to bidding. Otherwise, the Contractor's substitution may be rejected. For a substitution to be pre-approved by the Inspector, the Contractor may submit, ten (10) days before bid date, samples, brochures and technical data sufficient for the Inspector to make a decision.

2) Packaging -The Contractor shall retain all packaging and supplier's invoices in neat, clean, dry, legible condition for the Inspector to determine compliance with these specifications.

3) Shop drawings - Submit shop drawings wherever required by the plans, these specifications or when required by the inspector. Such drawings shall be drafted, dimensioned, and scaled drawings clearly showing the contractor's intended plan, materials and the like.

01510 Temporary Utilities

Provide temporary utilities as needed at no additional cost to the State. Contractor shall be responsible for contacting and providing the electric company with all necessary permits in order to make arrangements to connect the new facility to permanent power.

01700 Contract Closeout

See bidding and contract requirements regarding Final Payments and project meetings regarding acceptance, punch list, and final inspection. After completion, the Contractor shall remove all scraps, forms, packaging, debris, spatters, dust, dirt, etc. and leave the work in a neat and clean condition with all facilities ready for use by the Office of State Parks. Salvageable materials remain the property of the State and shall be delivered to the Park Manager. Materials deemed waste by the Project Inspector shall be removed from the park by the Contractor. Contractor shall provide the project inspector with a Project Manual. This project manual shall include the following information:

- Contact information for both the general contractor and all subcontractors.
- Copies of inspection certificates from authorities having jurisdiction. Particularly the Office of the State Fire Marshal.
- Copy of all cut sheets
- Maintenance schedule for all equipment.
- Care instructions for equipment and finishes.
- Chemical safety instructions if chemicals or chemical equipment is part of the project.
- Provide all equipment operating manuals, training and warranties.

The contractor shall provide the project inspector with two copies of the project manual. All information shall be provided in binders.

The project manual must be submitted with or prior to the retainage pay request. If not submitted the pay request shall be held until the manual is submitted to the project inspector.

01710 Cleaning

GENERAL

A. Work Included:

Throughout the construction period, maintain the building and the site in a standard of cleanliness as described in this section. Conduct daily inspection, and more often if necessary, to verify that requirements of cleanliness are being met.

MATERIALS

Provide all required personnel, equipment and materials needed to maintain specified standard of cleanliness. Use only the cleaning materials and equipment which are compatible with the surface being cleaned, as recommended by the manufacturer of the material or as approved by the Project Manager.

EXECUTION

Progress Cleaning:

- A. Retain all stored items in an orderly arrangement allowing maximum access, not impeding drainage or traffic, and providing the required protection of materials. Do not allow the accumulation of scrap, debris, waste material and other items not required for the construction of the work.
- B. Provide daily cleanup of areas adjacent to work area.
- C. At the end of each working day, store tools, small equipment (able to be carried by two – persons), building materials and debris.
- D. At the end of each working day, remove from the site all scrap, debris and waste material. Provide adequate storage for all items awaiting removal from the site, observing all requirements for fire protection and protection of the ecology.

Structures:

- A. At the end of each working day, sweep interior spaces clean. “Clean” for the purpose of this sub-paragraph, shall be interpreted as meaning (free from dust and other material capable of being removed by use of reasonable effort of a hand-held broom).
- B. As required preparatory to installation of succeeding materials, clean the structures or pertinent portions thereof to the degree of cleanliness recommended by the manufacturer of the succeeding material, using all materials and equipment required achieving the required cleanliness.
- C. Clean the finish floor daily as required while work is being performed in the space in which finish materials have been installed. “Clean” for the purpose of this sub-paragraph, shall be interpreted as meaning free from any foreign material, which in the opinion of the Project Inspector may be injurious to the finish floor material.

- D. Carefully protect from damage or staining all installed finish material, equipment and fixtures without consideration of when they were installed. Damage of stained parts will be repaired or replaced by the contractor at no additional cost to the owner.

Final Cleaning:

- A. "Cleaning" for the purpose of this article shall be interpreted as meaning the level of cleanliness generally provided by skilled cleaners using commercial quality building maintenance equipment and materials.
- B. Visually inspect all interior surfaces and remove all traces of soil, waste material, smudges, and other foreign matter. Remove all traces of splashed materials from adjacent surfaces. Remove all paint droppings, spots, stains and dirt from finished surfaces. Use only materials and equipment recommended by the manufacturer of the finish material.
- C. Clean all glass and frames inside and out. To all surfaces requiring the routine application of buffed polish, apply the polish recommended by the manufacturer of the material being polished or buffed.
- D. Schedule final cleaning as approved by the Project Inspector to enable the owner to accept a completely clean project.

01740 Warranties and Bonds

All materials and workmanship shall be warranted for a period of one (1) year.

Division 11-Equipment

11310 Sewage Pumps- This contract is for the rehabilitation of an existing lift station. All components in the interior of this unit will be removed and replaced excluding the existing pump rails. Contractor shall remove all piping and replace with new Schedule 80 PVC lines with matching interior dimensions to those of existing and to match new equipment. One new check valve similar to existing will be added at pump station wall where infiltration line exists. Two new pumps and all their components will be installed to replace existing. One new control panel will be included in this bid to control/operate the new equipment.

Service- Raw Domestic Sewerage

Pump Data- Submersible grinder

- 1-1/4" discharge
- GPM 5
- TDH 100
- Impeller Diameter 5.00
- RPM 3450
- Bronze Fitted
- Mechanical Seal
- Submersible
- Special Requirements: Permanently lubricated double ball bearings, S.S. pump shaft, S.S. fasteners, Motor over-temp sensors, Moisture detection Probes, double mechanical seals, Class F motor insulation and 30' power/sensor cords.

Original motors are Hydromatic HPG200M2-2, 2HP, single phase, 60 cycle, 230 volt, submersible units. Piranha "S" Series Grinder Pumps is an approved substitution for Hydromatic with all required connections (brackets) to mount on existing rails. Also required is pump discharge piping complete with gate and check valves, quick disconnect couplings, guiderail connectors, and S.S. lifting cables-two sets. One duplex control panel, float bracket and four pump float switches will be required.