



SCOPE OF WORK

This solicitation covers the carrying out of drilled shafts of the foundations for the Comanche Bridge for the US 181 Harbor Bridge Project in Corpus Christi, Texas.

1.0 Scope of Work

The work consists of carrying out of drilled shafts of the foundations for the Comanche Bridge 12.

The main characteristics of the drilled shaft are:

18", 36", 60" diameter

44' to 95' estimated drilled shaft lengths. These lengths are subject to change.

Maximum of 11 drilled shafts in one of the abutments.

The works will be developed in the number of shifts that are necessary to reach the agreed schedule.

Subcontractor to provide a schedule One (1) month prior to the beginning of the work. This schedule shall include the day and night shifts to complete the work bases on the master schedule completion date. If the subcontractor falls behind, He must either add additional Shifts or add an additional crew to at his cost to get back on and maintain the schedule.

The CONTRACTOR will provide to the SUBCONTRACTOR enough storage area for the Subcontractor's material and equipment during performance of the subcontract work.

The SUBCONTRACTOR shouldn't occupy any space outside of the delimited surface.

The SUBCONTRACTOR should maintain this storage area clean and tidy. This cleaning must be done daily.

The SUBCONTRACTOR shall provide all the labor and machinery for the handling and assembly of the specific equipment that the SUBCONTRACTOR shall use.

The initial setting out to determine drilled shaft locations will be carried out by the CONTRACTOR; this will be established once per pile. The Subcontractor remains responsible for the correct line, level, verticality and depth of each pile.

The SUBCONTRACTOR shall perform drilling according to the dimensions set in the drawings.

The SUBCONTRACTOR shall remove the material and transporting it to the surface intended for this purpose within its storage surface. Continuous drill spoils stockpiling, loading, hauling, and disposal of solids are all include.



SCOPE OF WORK

The SUBCONTRACTOR shall supply and install any temporary or permanent casing that is necessary to make sure the correct performance of the drilled shafts are executed.

The SUBCONTRACTOR shall supply polymer slurry for the drilling process, if necessary.

The SUBCONTRACTOR shall handle and dispose drilling water slurry.

The CONTRACTOR shall deliver the rebar cages within the area enabled for this purpose in the storage surface. The SUBCONTRACTOR will provide an engineered picking plan to design internal bracing and wire tying. The SUBCONTRACTOR will cooperate in the rebar cage design, regarding the splice and any issue that it can affect to the carry out of the works.

Cages have to be adequately tied and braced to withstand being picked from horizontal to vertical. All cages need to be jointly inspected on-site by the SUBCONTRACTOR, the rebar SUBCONTRACTOR and the CONTRACTOR to ensure compliance with picking plan.

The CONTRACTOR will furnish the concrete and will provide the pump truck. It will be the subcontractors' responsibility to schedule the truck in advance when needed. Any delays will be back charged to the contractor for lack of scheduling.

The SUBCONTRACTOR is responsible for the integrity of the pile, in particular but not limited to the method of pouring concrete. All amount of concrete that is wasted because of improper performance of the subcontractor will be deducted from the subcontractor next invoice.

The concrete will be poured to the correct top of shaft elevation +/- 2".

BY THE SUBCONTRACTOR

– Provide all labor, plant, material, supervision, and transportation required to carry out the drilled shaft installation, less those given in "BY THE CONTRACTOR/PURCHASER"

– Following, it is listed the main, but not limited, equipment, materials and labor that the SUBCONTRACTOR shall provide:

- Fixed mast drilling rig and a low clearance drill rig if required.
- Crane with enough capacity to handle the casing, the rebar cages and any material that is necessary to move.
- Furnishing and install temporary or permanent casing.
- Vibro hammer for installation and extraction of temporary steel casings, if necessary.
- Earth moving equipment for the stockpiling, loading, hauling, and disposal of drill spoils. (Backhoes, wheel loaders, etc.), in a sufficient amount to maintain clean the work area.
- Tremie pipe and all kind of auxiliary device for the pour.



SCOPE OF WORK

- Tanks for mixing and storage of bentonite slurry and all kind of auxiliary device for the handle of the slurry.
- Furnish and install temporary fall protection in the drilled shafts excavated.
- Flagmen

BY THE CONTRACTOR

- General site preparation.
- Furnish the rebar cages in the designed modules
- Supply of concrete, meeting the required TxDOT and project specifications for drilled shafts.
- Traffic Control Plan.
- Maintenance of traffic
- Survey points off set to agree to locations

TAKE-OFF METHOD

The quantity will be by linear feet of drilled shaft fully finished, tested and approved by the CONTRACTOR.

The quantity will be taken from the drawings approved for construction, every over length above dimensions on the drawings won't be a receivable. The length will be called "Estimated drilled shaft length" in the drawings.

Any change (to more or less) in the quantity of drilled shafts after the report of the load test won't involve any change in the unit prices.

TEST AND ASSAYS BORNE BY THE SUBCONTRACTOR/VENDOR/SUPPLIER

- All tests and assays that is necessary for the approval of the drilling slurry.

2.0 Schedule

The works (first drilled shaft) will begin in January 2018. This can change in the future if it is necessary.

3.0 General Requirements

Subcontractor's construction safe work practices, job procedures and etc. are to conform to the following standards: Occupational Health & Safety Regulations (OSHA), Texas Department of Transportation "Standard Specification for Construction and Maintenance of Highway, Streets, and Bridges", Port of Corpus Christi and Contractor's health safety policies and standards.



SCOPE OF WORK

Subcontractor shall comply with Contractor's safety plan and procedures and forms at all time. A formal Project Safety Orientation is required for each Subcontractor's employees including all on-site personnel regularly employed by consultants and vendors prior to working on the Project.

Onsite Safety, Quality and Environmental Training, is a requirement of the Project and provided by Contractor at 4 hours per person. This training is on Monday afternoon unless prior arrangements are made.

Subcontractor shall comply with the use of required PPE.

Subcontractor shall assume toward the Contractor all obligations and responsibilities which the Contractor has assumed toward the Owner under the Contract to the extent such obligations and liabilities relate to the Service Provider's Work. In case of conflict between the terms of this Subcontract and Contract, the Subcontract shall control. The Contract has been and remains available to the Subcontractor for review via web link: <http://www.txdot.gov/business/partnerships/current-cda/harbor-bridge/executed-version.html>

Subcontractor shall be responsible for all deliveries to and from the working location defined by the Contractor's Authorized Representative.

Subcontractor shall communicate and coordinate all aspects of its works with the Contractor's Authorized Representative.

4.0 Subcontractor's Report

For a progressive execution of the scope of work, Subcontractor shall submit a narrative progress report detailing: (a) all activities accomplished during the current period and; (b) all activities planned for the next period. Also, Subcontractor shall close its invoicing period by the 20th day of each month and submit the narrative progress report not later than the 22nd day of the month, with a draft proposed invoice that will be used to facilitate the revision and approval process prior to the Contractor submitting its monthly progress report to the Owner for the Owner's approval and payment.

If applicable, as per Section 11.2.2 (a) of the CDA, the Contractor is required to provide a monthly report of personnel hours. Subcontractor shall submit a man-hours report that details the number of employees working on the project and the number of hours reported during the period.

5.0 List of Subcontractors



SCOPE OF WORK

Subcontractor shall provide a list of all Sub-Subcontractors are going to be providing services under this agreement. Sub-Subcontractors are subject to the approval of the Contractor. List provided below includes all the Sub-Subcontractors that will potentially being providing services. In case a new Sub-Subcontractor is identify during the execution of the services, Subcontractor shall request written approval from Contractor Authorized Representative prior to perform any work.

Sub-Subcontractor	Scope of Work	Contact Info
		Name: Phone: Email:
		Name: Phone: Email:

6.0 Subcontractor's DBE Commitment:

Subcontractor's DBE agreed commitment under this agreement is 9%.

7.0 Deliverables

For the quotation:

- List of the sites where the SUBCONTRACTOR has carried out drilled shafts with the same diameter, work method and similar depth of the drilled shafts of this project.
- Schedule with the following activities:
 - Awarding of works
 - Preparation of the equipment
 - Preparation of the technical and quality control documentation (picking plan for the rebar cages, method works...)
 - Schedule, one month prior to start of the work.
 - Mobilization
 - Tests of the drilling slurry.
 - Carrying out the drilled shafts
 - On site mobilization for each bent location
 - Demobilization
- Preliminary Work Method



SCOPE OF WORK

- Inspections and tests plan
- In the drawings attached, you should include the surface area necessary for the works, with the measures of the different area for: slurry, rebar cages, crane, rig, casing, spoils,
- List of the equipment and main characteristics.
- Unit prices of the items of the price schedule.

In case of award:

- Detail Schedule
- Detail Work Method, to include all Phases of this project.
- Detailed picking plan
- Detailed plan with the drawing of the project
- Details of all the equipment
- Drilling excavation logs
- Concrete pouring logs
- Slurry testing report
- Environment and quality control documents

8.0 Project Execution Plan

- 1. Schedule of Work:** to be provided by bidder as part of their proposal. Should include a narrative detailing: procurement plan, key personnel involved, location, etc. (if applicable)
- 2. Delivery Schedule:** to be provided by bidder as part of their proposal. (if applicable)
- 3. Availability of spare parts during the operation period:** to be provided by bidder as part of their proposal. (if applicable)
- 4. Warranty scope:** to be provided by bidder as part of their proposal. (if applicable)
- 5. Freight:** to be provided by bidder as part of their proposal. (if applicable)