

PROJECT SPECIFICATIONS

INSTALLATION OF LANDSCAPED SUNSHADE AT SECRET GARDEN

1. SCOPE OF WORK FOR BIDDERS

- 1.1 To construct landscaped sunshade at the JHMC Secret Garden to improve and upgrade the area.
- 1.2 To impose required construction safety practices during the implementation of the project in compliance with the approved Occupational Safety and Health Program as established by the Department of Labor and Employment (DOLE).
- 1.3 To provide and maintain an accessible temporary field office/storage, portable toilets/latrines for workers. The Contractor shall be held responsible for the maintenance and protection of all facilities to be provided during the duration of the Contract.
- 1.4 To provide the necessary, required, and sufficient manpower, materials and equipment during the course of the project implementation.
- 1.5 To conduct removal and proper disposal of structures and/or obstructions as indicated in the approved plans. All designated salvageable material shall be removed, without unnecessary damages, for safekeeping and turn-over to the end-user.
- 1.6 To properly and safely dispose all wastes generated during the construction phase in conformance with the approved Construction Environmental Management Plan (CEMP).
- 1.7 To supervise or monitor the presence of the assigned Project Personnel (Project Engineer/Facilitator, Materials Engineer and/or Safety Officer) during project implementation.
- 1.8 To conduct site visits to familiarize with the on-site conditions and existing facilities.
- 1.9 To provide as-staked and as-built plans for the completed structure/s, one (1) set original CAD drawing in A3 size, two (2) additional copies, and electronic file of the following:
 - a. Actual layout and location of the structures constructed,
 - b. Details of the constructed structure, and,
 - c. All other details of the project that may be required.
- 1.10 As-built plans shall indicate the details specified in Section 1.9 in any scale not less than 1:100 meters
- 1.11 To submit weekly Statement of Work Accomplishment reports during the duration of the Contract.
- 1.12 To shoulder all costs for power and water utilities to be used during the implementation of the project.
- 1.13 The contractor shall be responsible for all tests and engineering services required by the Specifications. The cost for inspection or test not required by the specifications but which are required by JHMC, will be borne by JHMC.
- 1.14 All tests shall be performed by accredited testing facilities and approved by JHMC, and shall be in accordance with the current standards of the American Society for testing

and materials, otherwise specified by JHMC. Two (2) copies of the test procedures including results shall be furnished to JHMC.

- 1.15 To immediately report to JHMC all unearthed hazardous materials, buried treasures or artifacts, and shall be coordinated by JHMC to the concerned agencies for their appropriate action. All activities in area of concern shall cease until such time that the hazardous materials, treasures have been properly dealt with.
- 1.16 Contractor shall ensure there will be no smoking, drinking of alcoholic beverages, spitting of saliva, loitering among construction workers assigned in the construction premises.
- 1.17 Contractor shall restore all damaged property during the project implementation to its original state.

2. **STANDARDS and SPECIFICATIONS**

The scope of work shall be in conformity with of the DPWH standards and specifications stated herein.

B.5. - PROJECT BILLBOARD/ SIGNBOARD

All required project billboards (JHMC and COA) shall be installed on the vicinity of the project using the standard design as shown in the Plan. Billboard should be properly

B.7. - OCCUPATIONAL SAFETY AND HEALTH PROGRAM

This Item shall be in accordance with the provisions, systems and procedures based in the approved and applicable Occupational Safety and Health Program by the Department of Labor and Employment. Appropriate Personal Protective Equipment (PPE), including all safety devices that are necessary during project implementation, shall be provided by contractor/project owner.

B.9. – MOBILIZATION/ DEMOBILIZATION

Prior to mobilization of equipment and materials on site, the contractor shall coordinate with JHMC for the approved areas to be used for stockpiling of materials and parking of equipment on site. No construction materials or equipment should obstruct main access points within the vicinity of the project.

Item 100(2) - CLEARING AND GRUBBING

All surface objects and all trees, stumps, roots and other protruding obstructions, not designated to remain, shall be cleared and/or grubbed, and disposed outside the clearing and grubbing limits as indicated.

Item 102(2) - SURPLUS AND COMMON EXCAVATION

All excavations shall be finished to reasonably smooth and uniform surfaces. No materials shall be wasted without authority of the Engineer. Prior to excavation, all necessary clearing and grubbing in that area shall have been performed in accordance with Item Clearing and Grubbing.

All suitable materials removed from the excavation shall be used in the formation of the embankment, subgrade, shoulders, slopes, bedding, and backfill for structures, and for other purposes shown on the Plans or as directed. All unsuitable materials shall be disposed of as

shown on the Plans or as directed without delay to the Contractor. Only approved materials shall be used in the construction of embankments and backfills.

All excess materials, including rock and boulders that cannot be used in embankments shall be disposed of as directed.

Item 404(1)a - REINFORCING STEEL (GRADE 40)

Steel reinforcements to be used shall be Grade 40 deformed steel bars, clean and rust-free. Minimum concrete cover for reinforcement is 50mm and 75mm for those exposed to soil/under earth. All steel reinforcements shall be accurately placed the position with proper spacing based on the approved plans.

Distance from the forms shall be maintained by means of stays, blocks, ties, hangers, or other approved supports. The use of pebbles, pieces of broken stone or brick, metal pipe and wooden blocks shall not be permitted. Reinforcement in any member shall be placed and then inspected and approved by the JHMC representative before the placing of concrete begins. Concrete placed in violation of this provision may be rejected and removal may be required.

Item 405(1) a3 - STRUCTURAL CONCRETE

Concrete shall consist of a mixture of Portland cement, fine aggregate, coarse aggregate, admixture when specified, and water mixed in the proportions specified or approved by the JHMC representative.

The class of concrete to be used is **Class A**. Only Type I Portland Cement shall be used unless otherwise provided for in the Special Provisions. Different brands or the same brands from different mills shall not be mixed nor shall they be used alternately unless the mix is approved by the Engineer.

Fine Aggregate shall consist of natural sand, stone screenings or other inert materials with similar characteristics, or combinations thereof, having hard, strong and durable particles.

Coarse Aggregate shall consist of crushed stone, gravel, blast furnace slag, or other approved inert materials (coralline or dolomites) of similar characteristics, or combinations thereof, having hard, strong, durable pieces and free from any adherent coatings. Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product.

As work progresses, at least one (1) sample consisting of three (3) concrete cylinder test specimens, 150 x 300mm (6 x 12 inches), shall be taken from each seventy-five (75) cubic meters of each class of concrete or fraction thereof placed each day.

Item 411 – PAINT


This Item shall consist of furnishing and applying all paint materials including vehicles, pigments, pastes, driers, thinners and mixed paints for steel and wooden structures; sampling testing and packing; preparation of the surface and application of paint to structures.

Paint shall not be applied during adverse weather condition or when conditions are unsatisfactory for the work as evaluated by the Engineer of the contractor and JHMC. Likewise, every surface should be properly prepared before application to avoid paint to blister and produce a previous paint.

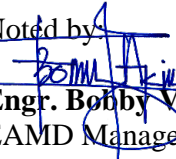
All field rivets, bolts, and welds shall be cleaned and thoroughly covered with one coat of shop coat paint.

Surfaces of metals to be painted shall be thoroughly cleaned of rust, loose mill, scale, dirt, oil or grease, and other foreign substances. Unless cleaning is to be done by sandblasting, all weld areas, before cleaning is begun, shall be neutralized with a proper chemical, after which they shall be thoroughly rinsed with water.

When called for on the Plans or in the Special Provisions, existing structures shall be given the two coats of field paint as stipulated.

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