



## **SECTION F**

# **PERFORMANCE SPECIFICATIONS**

## **GLEN HELEN REGIONAL PARK MONUMENT PROJECT**

FOR

**GLEN HELEN REGIONAL PARK  
SAN BERNARDINO, CALIFORNIA**

**PROJECT NO.: 1012115**

## PERFORMANCE SPECIFICATIONS

### 01. MOBILIZATION

Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site.

Mobilization shall conform to the provisions in Section 9-1.16D, "Mobilization," of the 2015 Caltrans Standard Specifications.

The contract lump sum price paid for **Mobilization** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in mobilization as specified herein. No additional compensation will be allowed for additional mobilization/demobilization costs due to weather days or loss of production due to cold weather.

### 02. DUST CONTROL AND WATER SUPPLY

This work, Dust Control, shall consist of all operations necessary to control fugitive dust arising from construction operations, and due to any disturbance of natural ground covers resulting therefrom, in compliance with governing EPA and NPDES requirements and shall conform to the provisions in Section 10-5, "Dust Control," of the 2015 Caltrans Standard Specifications and these Specifications.

The CONTRACTOR is responsible for meeting and being in compliance with all of the requirements of the South Coast Air Quality Management District's (AQMD) "Rule 403, Fugitive Dust." Information on AQMD and "Rule 403, Fugitive Dust" can be found at <http://www.aqmd.gov>. Should the County be fined due to failure of the contractor to comply with Rule 403 requirements, the amount of any such fines will be withheld from payments due or to become due to the Contractor.

The compensation paid for Dust Control shall include, but not be limited to compensation for maintaining dust control and air contaminates within the project area. Watering site as needed to control dust during project duration, street sweeping as needed to control dust and maintain clean public roadways, and application of chemical dust stabilizers shall be included in the prices paid for **various contract items** of work and no additional compensation will be allowed therefor.

### 03. PROJECT GEOTECHNICAL ENGINEERING INVESTIGATION

A "Geotechnical Investigation Report, Glen Helen Regional Park Monument Project," prepared by Converse Consultants, dated March 7, 2023 is included in Section H.

No warranty, either expressed or implied, is made as to the information contained in the report, dated March 7, 2023 by Converse Consultants and the boring logs contained therein. This report is provided for information only. It is the responsibility of each bidder to perform his own investigation and verification of the site conditions prior to bidding on the project. The submission of a bid shall be conclusive evidence that the Contractor has investigated and is satisfied as to the general and local conditions to be encountered.

#### **04. TRAFFIC CONTROL AND PUBLIC SAFETY**

The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Section 7-1.04, "Public Safety," of the Standard Specifications and these provisions.

The Contractor shall furnish, erect and maintain those fences, temporary railing (Type K), barricades, lights, signs and other devices and take such other protective measures that are necessary to prevent accidents or damage or injury to the public, especially pedestrians who travel through the work zone area. Where no other means of pedestrian passage through construction area is available, the Contractor shall provide detours for pedestrian travel.

When applicable, the California MUTCD latest edition Figure 6H-28 "Sidewalk Detour or Diversion" Typical Application 28 and Figure 6H-29 "Crosswalk Closures and Pedestrian Detours" Typical Application 29 may be used and referenced as part of the project's Traffic Control Plan.

The Contractor shall be responsible to install and maintain a worksite traffic control system. This shall include any potential phasing of traffic control during the various phases of construction.

Placement of traffic control shall conform to the California MUTCD latest edition, as well as these provisions.

Adequate notice of any lane closures shall be given to all affected parties.

No road closure shall be implemented. Minimum of one lane in each direction shall be provided at all times and access remain open to all intersections and driveways.

During the time of construction, the Contractor shall be responsible for the maintenance of the road within the proposed limits.

Full compensation for conforming to the requirements of Section 7-1.04, "Public Safety," and the requirements of these provisions, including all costs for installation, modifications, maintenance and removal of traffic control over the course of the project shall be considered as included in the contract lump sum paid for **Traffic Control System** and no additional compensation will be allowed therefor. The lump sum cost shall include cost of the traffic control plans prepared by a Registered Engineer, if required.

#### **05. REMOVE AND RELOCATE EXISTING SIGN AT GATE 1 TO GATE 2**

The work shall include the removal and relocation of the existing Gate 1 sign to the Gate 2 entrance, including excavation, grading, clearing and grubbing, and new reinforced concrete footings needed for the sign relocation and installation at Gate 2. The final location at Gate 2 shall be determined by the County.

The contractor shall carefully remove the existing sign and clean and store all materials for reuse. The existing sign footings shall be broken up and removed and the posts carefully cleaned and stored. All work shall be done in a workmanlike manner with care taken not to disturb or damage existing utilities. Any damage done to the area, caused by the Contractor's operation, shall be repaired to the original condition at no expense to the County. All post holes shall be filled to meet existing grade.

Full compensation for conforming to the requirements of these provisions, furnishing labor, tools, equipment, materials, and incidentals for doing all work involved shall be considered as included in the contract lump sum paid for **Remove and relocate existing sign at Gate 1 to Gate 2** and no additional compensation will be allowed therefor.

**06. PROTECT IMPROVEMENTS IN PLACE, ADJUST TO GRADE, RELOCATE AND/OR REPLACE EXISTING WATER LINE AND APPURTENANCES IN CONFLICT WITH NEW CONSTRUCTION AS NEEDED**

This work shall conform to the provisions in Section 5, “Utilities,” of the Greenbook Specifications.

The contractor shall be responsible for locating, potholing, and relocating any existing utilities in conflict with new construction as needed.

Relocation of the existing water main line shall conform to the San Bernardino County Department of Public Works – Special Districts Water and Sanitation Standard Drawings and Specifications (Latest Edition).

Trench and asphalt repair shall conform to the latest San Bernardino Department of Public Works Trench Specifications. At minimum, a full lane mill and resurfacing shall be required. Contractor shall cold plane a thickness of 0.12-feet, apply tack coat, and place 0.12-feet of Type A, 1/2-inch aggregate gradation, binder grade PG 64-10 Hot Mix Asphalt, as specified in Section 39-2.02B(4)(b), “Aggregate Gradations” of the Caltrans Standard Specifications.

Planing asphalt concrete shall be performed by the cold planing method. Planing of the asphalt concrete pavement shall not be done by the heater planing method. Cold planing machines shall be operated so as not to produce fumes or smoke. Cold planing machines shall be capable of producing a planed surface with no grooves greater than 3/8-inch in width and 3/16-inch in depth, and shall be operated at a speed and in a manner to produce such a surface.

Where utility access fixtures exist within the area to be planed, these shall be protected from damage.

Planed widths of pavement shall be continuous. Where transverse joints are planed in the pavement at conform lines, no drop-off greater than 0.15-foot shall remain between the existing pavement and the planed area when the pavement is opened to public traffic. The material planed from the roadway surface, including material deposited in existing or improved gutter or on the adjacent traveled way, shall become the property of the Contractor and shall be removed and disposed of in accordance with Caltrans Specifications Sections 14-10 “Solid Waste Disposal and Recycling” and 14-11 “Hazardous Waste and Contamination”. Removal of the cold planed material shall be concurrent with the planning operations.

Full compensation for conforming to the requirements of these provisions, furnishing labor, tools, equipment, materials, potholing, excavations, backfilling, compacting, placing pipe, shoring, paving, restore striping and incidentals for doing all work involved shall be considered as included in the contract lump sum paid for **Protect improvements in place, adjust to grade, relocate and/or replace existing water line and appurtenances in conflict with new construction as needed** and no additional compensation will be allowed therefor. The price shall include adjustment to grade (raise or lower) all valves, manholes, covers, meters and protection of all existing utilities. No additional compensation will be paid to the Contractor for the delay or loss of efficiency due to having to coordinate his work with that of the utilities.

**07. EXCAVATION/EARTHWORK, GRADING, CLEARING AND GRUBBING**

The contract lump sum price for **Excavation/Earthwork, grading, clearing and grubbing, export and import of materials** shall include full compensation for furnishing labor, tools, equipment, materials, and incidents and for doing all work involved in such items unless otherwise required here. The price shall include any tree trimming needed and the export of unsuitable materials, dirt and grindings.

Earthwork shall conform to the provisions in Section 300 of the Greenbook Specifications and these provision and the specifications on the project plans. Any soil required for import shall be included in this item.

This bid items covers Finish Grading/Soil prep for the project site. All landscape area shall be sloped to provide positive drainage. No ponding shall be acceptable.

All grading, over-excavation, and compaction of subgrade as required will be the responsibility of the Contractor and shall be included within the lump sum cost for **Excavation/Earthwork, grading, clearing and grubbing, export and import of materials.**

If areas are encountered that the Contractor believes should be determined to be “unsuitable material” the Contractor shall notify the Engineer. If the Engineer determines that the material is “unsuitable” it shall then be removed and disposed of and paid for as extra work provided in Sections 4.1.03D of the Caltrans Specifications.

#### **08. OVERHEAD SIGN STRUCTURE (DELIVERY AND INSTALL), INCLUDING FOOTINGS**

The Contractor shall submit to the County for review and approval a complete design and details for the overhead sign structure as shown in the project plans.

Structural Calculations for the overhead structure and footings shall be included with the submittal for County review. All calculations shall be signed and sealed by a Professional Engineer licensed in the State of California and shall conform to the latest building codes. The calculations shall include all design information necessary to determine the structural adequacy of the structure. A stamped electronic soft copy shall be provided.

Delivery of the overhead sign structure, hauling permits and freight charges are the responsibility of the Contractor. Information regarding delays after the trucks depart the plan such as weather, delays in permit, re-routing by public agencies or other circumstances shall be communicated with the County as soon as possible.

The Contractor shall be responsible for coordinating with the manufacturer of the actual lifting weights, attachment points and all necessary information to install the overhead sign structure. Lifting procedure submittals shall be the responsibility of the Contractor. Unloading, splicing, bolting, and proper lifting equipment is the responsibility of the Contractor. The method and sequence of erection shall be the responsibility of the Contractor.

The sign manufacturer shall provide written inspection and maintenance procedures to be followed by the County. The sign manufacturer shall provide a minimum of 1 year warranty.

This work and materials shall conform to the provisions in Sections 201 “Concrete, Mortar and Related Materials”, 202 “Masonry Materials”, 206 “Miscellaneous Metal Items”, 210 “Paint and Protective Coatings”, 300 “Earthwork”, 303 “Concrete and Masonry Construction”, 304 “Metal Fabrication and Construction”, and 310 “Painting” of the Greenbook Specifications (Latest Edition).

The Contractor warrants in his bid that he has contacted various sources and the specified material is available and the price for the material is included in his bid. Full compensation for furnishing and installing prefabricated overhead sign structure, assemblies, inspection costs, and furnishing all labor, materials, equipment, tools and incidentals, and for conforming with the requirements of the Specifications, and for doing the work, shall be consider included in the contract lump sum price paid

for **“Overhead Sign Structure (Delivery and Install), Including Footings”** and no additional compensation will be allowed therefor.

Full compensation for constructing the concrete footings, including associated excavation and backfill materials, compaction, import or export of material as required, and including design engineering costs, if applicable, shall be considered as included in the contract lump sum price paid for **“Overhead Sign Structure (Delivery and Install), Including Footings”** for constructing concrete footings, and including steel bar reinforcement.

#### **09. CONSTRUCT ENTRANCE MONUMENT, INCLUDING FOOTINGS**

The Contractor shall submit to the County for review and approval a complete design and details for the entry monument sign as shown in the project plans. County signage and lettering shall be metal material.

Structural Calculations for the entrance monument shall be included with the submittal for County review. All calculations shall be signed and sealed by a Professional Engineer licensed in the State of California and shall conform to the latest building codes. The calculations shall include all design information necessary to determine the structural adequacy of the structure. A stamped electronic soft copy shall be provided.

This work and materials shall conform to the provisions in Sections 201 “Concrete, Mortar and Related Materials”, 202 “Masonry Materials”, 206 “Miscellaneous Metal Items”, 210 “Paint and Protective Coatings”, 300 “Earthwork”, 303 “Concrete and Masonry Construction”, 304 “Metal Fabrication and Construction”, and 310 “Painting” of the Greenbook Specifications (Latest Edition).

The Contractor warrants in his bid that he has contacted various sources and the specified material is available and the price for the material is included in his bid. Full compensation for furnishing and constructing the entrance monument, assemblies, inspection costs, and furnishing all labor, materials, equipment, tools and incidentals, and for conforming with the requirements of the Specifications, and for doing the work, shall be considered included in the contract lump sum price paid for **“Construct Structural Calculations for the monument footings Entrance Monument, Including Footings”** and no additional compensation will be allowed therefor.

Full compensation for constructing the concrete footings, including associated excavation and backfill materials, compaction, import or export of material as required, and including design engineering costs, shall be considered as included in the contract lump sum price paid for **“Construct Entrance Monument, Including Footings”** for constructing concrete footings, and including steel bar reinforcement.