

## PROFESSIONAL CONSTRUCTION SERVICES AGREEMENT

This PROFESSIONAL CONSTRUCTION SERVICES AGREEMENT, (hereinafter referred to as "Agreement"), is made and entered into to be effective the 26<sup>th</sup> day of July, 2023 by and between the ORANGE COUNTY SANITATION DISTRICT, (hereinafter referred to as "OC SAN"), and MICHAEL BAKER INTERNATIONAL, INC., (hereinafter referred to as "CONSULTANT").

### WITNESSETH:

WHEREAS, OC SAN desires to engage CONSULTANT to provide construction support services for **MacArthur Force Main Improvements, Project No. 7-68** (Construction Support Services); and

WHEREAS, CONSULTANT is qualified to provide the necessary services for the Construction Support Services in connection with these requirements; and

WHEREAS, OC SAN has adopted procedures in accordance with OC SAN's Ordinance No. OC SAN-56, Section 4.03(B), for the continuation of services and has proceeded in accordance with said procedures to perform the Construction Support Services; and

WHEREAS, at its regular meeting on July 26, 2023 the Board of Directors, by Minute Order, accepted the recommendation of the Operations Committee pursuant to OC SAN's Ordinance No. OC SAN-56 to approve this Agreement.

NOW, THEREFORE, in consideration of the promises and mutual benefits, which will result to the parties in carrying out the terms of this Agreement, it is mutually agreed as follows:

#### **1. SCOPE OF WORK**

The CONSULTANT agrees to furnish necessary professional and technical services to accomplish those project elements outlined in the Scope of Work (SOW) attached hereto as Attachment "A", and by this reference made a part of this Agreement.

- A. The CONSULTANT shall be responsible for the professional quality, technical accuracy, completeness, and coordination of all design, drawings, specifications, and other services furnished by the CONSULTANT under this Agreement, including the work performed by its subconsultants (Subconsultants). Where approval by OC SAN is indicated, it is understood to be conceptual approval only and does not relieve the CONSULTANT of responsibility for complying with all laws, codes, industry standards and liability for damages caused by errors, omissions, noncompliance with industry standards, and/or negligence on the part of the CONSULTANT or its Subconsultants.
- B. The CONSULTANT is responsible for the quality of work prepared under this Agreement and shall ensure that all work is performed to the standards of best engineering practice for clarity, uniformity, and completeness.

- C. In the event that work is not performed to the satisfaction of OC SAN and does not conform to the requirements of this Agreement or any applicable industry standards, the CONSULTANT shall, without additional compensation, promptly correct or revise any errors or deficiencies in its designs, drawings, specifications, or other services within the timeframe specified by the OC SAN Project Engineer/Project Manager. OC SAN may charge to the CONSULTANT all costs, expenses and damages associated with any such corrections or revisions.
- D. All CADD drawings, figures, and other work shall be produced by the CONSULTANT and Subconsultants using OC SAN standard software. Conversion of CADD work from any other non-standard CADD format to OC SAN format shall not be acceptable in lieu of this requirement.

Electronic files shall be subject to an acceptance period of 30 calendar days during which OC SAN shall perform appropriate acceptance tests. The CONSULTANT shall correct any discrepancies or errors detected and reported within the acceptance period at no additional cost to OC SAN.

- E. All professional services performed by the CONSULTANT, including but not limited to all drafts, data, correspondence, proposals, reports, and estimates compiled or composed by the CONSULTANT, pursuant to this Agreement, are for the sole use of OC SAN, its agents and employees. Neither the documents nor their contents shall be released to any third party without the prior written consent of OC SAN. This provision does not apply to information that (a) was publicly known, or otherwise known to the CONSULTANT, at the time that it was disclosed to the CONSULTANT by OC SAN, (b) subsequently becomes publicly known to the CONSULTANT other than through disclosure by OC SAN.

## 2. COMPENSATION

Total compensation shall be paid to the CONSULTANT for the Construction Support Services in accordance with the following provisions:

### A. Total Compensation

Total compensation shall be in an amount not to exceed Two Hundred Seventy-Two Thousand Two Dollars (\$272,002.00). Total compensation to the CONSULTANT including burdened labor (salaries plus benefits), overhead, profit, direct costs, and Subconsultant(s) fees and costs shall not exceed the sum set forth in Attachment "E" - Fee Proposal.

### B. Labor

As a portion of the total compensation to be paid to the CONSULTANT, OC SAN shall pay to the CONSULTANT a sum equal to the burdened salaries (salaries plus benefits) actually paid by the CONSULTANT charged on an hourly-rate basis to this project and paid to the personnel of the CONSULTANT. Upon request of OC SAN, the CONSULTANT shall provide OC SAN with certified payroll records of all employees' work that is charged to this project.

C. Overhead

As a portion of the total compensation to be paid to the CONSULTANT, OC SAN shall compensate the CONSULTANT and Subconsultants for overhead at the rate equal to the percentage of burdened labor as specified in Attachment "E" - Fee Proposal.

D. Profit

Profit for the CONSULTANT and Subconsultants shall be a percentage of consulting services fees (Burdened Labor and Overhead). When the consulting or subconsulting services amount is \$250,000 or less, the maximum Profit shall be 10%. Between \$250,000 and \$2,500,000, the maximum Profit shall be limited by a straight declining percentage between 10% and 5%. For consulting or subconsulting services fees with a value greater than \$2,500,000, the maximum Profit shall be 5%. Addenda shall be governed by the same maximum Profit percentage after adding consulting services fees.

As a portion of the total compensation to be paid to the CONSULTANT and Subconsultants, OC SAN shall pay Profit for all services rendered by the CONSULTANT and Subconsultants for this project according to Attachment "E" - Fee Proposal.

E. Subconsultants

For any Subconsultant whose fees for services are greater than or equal to \$100,000 (excluding out-of-pocket costs), the CONSULTANT shall pay to Subconsultant total compensation in accordance with the Subconsultant amount specified in Attachment "E" - Fee Proposal.

For any Subconsultant whose fees for services are less than \$100,000, the CONSULTANT may pay to Subconsultant total compensation on an hourly-rate basis per Attachment "K" – Minor Subconsultant Hourly Rate Schedule and as specified in the SOW. OC SAN shall pay to the CONSULTANT the actual costs of Subconsultant fees and charges in an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal.

F. Direct Costs

OC SAN shall pay to the CONSULTANT and Subconsultants the actual costs of permits and associated fees, travel and licenses for an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal. OC SAN shall also pay to the CONSULTANT actual costs for equipment rentals, leases or purchases with prior approval of OC SAN. Upon request, the CONSULTANT shall provide to OC SAN receipts and other documentary records to support the CONSULTANT's request for reimbursement of these amounts, see Attachment "D" – Allowable Direct Costs. All incidental expenses shall be included in overhead pursuant to Section 2 - COMPENSATION above.

G. Other Direct Costs

Other Direct Costs incurred by the CONSULTANT due to modifications to the SOW resulting from field investigations and field work required by the Agreement. These items may include special equipment, test equipment and tooling and other materials and services not previously identified. Refer to Attachment "D" - Allowable Direct Costs for payment information.

H. Reimbursable Direct Costs

OC SAN will reimburse the CONSULTANT for reasonable travel and business expenses as described in this section and further described in Attachment "D" - Allowable Direct Costs to this Agreement. The reimbursement of the above-mentioned expenses will be based on an "accountable plan" as considered by the U.S. Internal Revenue Service (IRS). The plan includes a combination of reimbursements based upon receipts and a "per diem" component approved by the IRS. The most recent schedule of the per diem rates utilized by OC SAN can be found on the U.S. General Services Administration website at <http://www.gsa.gov/portal/category/104711#>.

The CONSULTANT shall be responsible for the most economical and practical means of management of reimbursable costs inclusive but not limited to travel, lodging and meals arrangements. OC SAN shall apply the most economic and practical method of reimbursement which may include reimbursements based upon receipts and/or "per diem" as deemed the most practical.

The CONSULTANT shall be responsible for returning to OC SAN any excess reimbursements after the reimbursement has been paid by OC SAN.

Travel and travel arrangements – Any travel involving airfare, overnight stays or multiple day attendance must be approved by OC SAN in advance.

Local Travel is considered travel by the CONSULTANT within OC SAN general geographical area which includes Orange, Los Angeles, Ventura, San Bernardino, Riverside, San Diego, Imperial and Kern Counties. Automobile mileage is reimbursable if the CONSULTANT is required to utilize personal vehicle for local travel.

Lodging – Overnight stays will not be approved by OC SAN for local travel. However, under certain circumstances overnight stay may be allowed at the discretion of OC SAN based on reasonableness of meeting schedules and the amount of time required for travel by the CONSULTANT. Such determination will be made on a case-by-case basis and at the discretion of OC SAN.

Travel Meals – Per-diem rates as approved by the IRS shall be utilized for travel meals reimbursements. Per diem rates shall be applied to meals that are appropriate for travel times. Receipts are not required for the approved meals.

Additional details related to the reimbursement of the allowable direct costs are provided in the Attachment "D" - Allowable Direct Costs.

I. Limitation of Costs

If, at any time, the CONSULTANT estimates the cost of performing the services described in the CONSULTANT's Proposal will exceed the not-to-exceed amount of the Agreement, including approved additional compensation, the CONSULTANT shall notify OC SAN immediately, and in writing. This written notice shall indicate the additional amount necessary to complete the services. Any cost incurred in excess of the approved not-to-exceed amount, without the express written consent of OC SAN's authorized representative shall be at the CONSULTANT's own risk. This written notice shall be provided separately from, and in addition to any notification requirements contained in the CONSULTANT's invoice and monthly progress report. Failure to notify OC SAN that the services cannot be completed within the authorized not-to-exceed amount is a material breach of this Agreement.

**3. REALLOCATION OF TOTAL COMPENSATION**

OC SAN, by its Director of Engineering, shall have the right to approve a reallocation of the incremental amounts constituting the total compensation, provided that the total compensation is not increased.

**4. PAYMENT**

- A. Monthly Invoice: The CONSULTANT shall include in its monthly invoice, a detailed breakdown of costs associated with the performance of any corrections or revisions of the work for that invoicing period. The CONSULTANT shall allocate costs in the same manner as it would for payment requests as described in this section of the Agreement. The CONSULTANT shall warrant and certify the accuracy of these costs and understand that submitted costs are subject to Section 11 - AUDIT PROVISIONS.
- B. The CONSULTANT may submit monthly or periodic statements requesting payment for those items included in Section 2 - COMPENSATION in the format as required by OC SAN. Such requests shall be based upon the amount and value of the work and services performed by the CONSULTANT under this Agreement and shall be prepared by the CONSULTANT and accompanied by such supporting data, including a detailed breakdown of all costs incurred and work performed during the period covered by the statement, as may be required by OC SAN.

Upon approval of such payment request by OC SAN, payment shall be made to the CONSULTANT as soon as practicable of 100% of the invoiced amount on a per task basis.

If OC SAN determines that the work under this Agreement, or any specified task hereunder, is incomplete and that the amount of payment is in excess of:

- i. The amount considered by OC SAN's Director of Engineering to be adequate for the protection of OC SAN; or
- ii. The percentage of the work accomplished for each task.

OC SAN may, at the discretion of the Director of Engineering, retain an amount equal to that which ensures that the total amount paid to that date does not exceed the percentage of the completed work for each task or the project in its entirety.

- C. The CONSULTANT may submit periodic payment requests for each 30-day period of this Agreement for the profit as set forth in Section 2 - COMPENSATION. Said profit payment request shall be proportionate to the work actually accomplished to date on a per task basis. In the event OC SAN's Director of Engineering determines that no satisfactory progress has been made since the prior payment, or in the event of a delay in the work progress for any reason, OC SAN shall have the right to withhold any scheduled proportionate profit payment.
- D. Upon satisfactory completion by the CONSULTANT of the work called for under the terms of this Agreement, and upon acceptance of such work by OC SAN, the CONSULTANT will be paid the unpaid balance of any money due for such work, including any retained percentages relating to this portion of the work.
- E. Upon satisfactory completion of the work performed hereunder and prior to final payment under this Agreement for such work, or prior settlement upon termination of this Agreement, and as a condition precedent thereto, the CONSULTANT shall execute and deliver to OC SAN a release of all claims against OC SAN arising under or by virtue of this Agreement other than such claims, if any, as may be specifically exempted by the CONSULTANT from the operation of the release in stated amounts to be set forth therein.
- F. Pursuant to the California False Claims Act (Government Code Sections 12650-12655), any CONSULTANT that knowingly submits a false claim to OC SAN for compensation under the terms of this Agreement may be held liable for treble damages and up to a ten thousand dollars (\$10,000) civil penalty for each false claim submitted. This section shall also be binding on all Subconsultants.

The CONSULTANT or Subconsultant shall be deemed to have submitted a false claim when the CONSULTANT or Subconsultant: a) knowingly presents or causes to be presented to an officer or employee of OC SAN a false claim or request for payment or approval; b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by OC SAN; c) conspires to defraud OC SAN by getting a false claim allowed or paid by OC SAN; d) knowingly makes, uses, or causes to be made or used a false record or statement to conceal, avoid, or decrease an obligation to OC SAN; or e) is a beneficiary of an inadvertent submission of a false claim to OC SAN, and fails to disclose the false claim to OC SAN within a reasonable time after discovery of the false claim.

**5. CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION AND RECORD OF WAGES**

- A. To the extent the CONSULTANT's employees and/or Subconsultants who will perform work during the design and preconstruction phases of a construction contract for which Prevailing Wage Determinations have been issued by the DIR and as more specifically defined under Labor Code Section 1720 et seq, the CONSULTANT and Subconsultants shall comply with the registration requirements of Labor Code Section 1725.5. Pursuant to Labor Code Section 1771.4, the work is subject to compliance monitoring and enforcement by the DIR.
- B. The CONSULTANT and Subconsultants shall maintain accurate payroll records and shall comply with all the provisions of Labor Code Section 1776, and shall submit payroll records to the Labor Commissioner pursuant to Labor Code Section 1771.4(a) (3). Penalties for non-compliance with the requirements of Section 1776 may be deducted from progress payments per Section 1776.
- C. Pursuant to Labor Code Section 1776, the CONSULTANT and Subconsultants shall furnish a copy of all certified payroll records to OC SAN and/or general public upon request, provided the public request is made through OC SAN, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement of the DIR.
- D. The CONSULTANT and Subconsultants shall comply with the job site notices posting requirements established by the Labor Commissioner per Title 8, California Code of Regulation Section 16461(e).

**6. DOCUMENT OWNERSHIP – SUBSEQUENT CHANGES TO PLANS AND SPECIFICATIONS**

- A. Ownership of Documents for the Construction Support Services performed.  

All documents, including but not limited to, original plans, studies, sketches, drawings, computer printouts and disk files, and specifications prepared in connection with or related to the SOW or Construction Support Services, shall be the property of OC SAN. OC SAN's ownership of these documents includes use of, reproduction or reuse of and all incidental rights, whether or not the work for which they were prepared has been performed. OC SAN ownership entitlement arises upon payment or any partial payment for work performed and includes ownership of any and all work product completed prior to that payment. This section shall apply whether the CONSULTANT's Construction Support Services are terminated: a) by the completion of the Agreement, or b) in accordance with other provisions of this Agreement. Notwithstanding any other provision of this paragraph or Agreement, the CONSULTANT shall have the right to make copies of all such plans, studies, sketches, drawings, computer printouts and disk files, and specifications.

- B. The CONSULTANT shall not be responsible for damage caused by subsequent changes to or uses of the plans or specifications, where the subsequent changes or uses are not authorized or approved by the CONSULTANT, provided that the service rendered by the CONSULTANT was not a proximate cause of the damage.

## 7. INSURANCE

### A. General

- i. Insurance shall be issued and underwritten by insurance companies acceptable to OC SAN.
- ii. Insurers must have an "A-" Policyholder's Rating, or better, and Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best's Guide Rating. However, OC SAN will accept State Compensation Insurance Fund, for the required policy of Workers' Compensation Insurance subject to OC SAN's option to require a change in insurer in the event the State Fund financial rating is decreased below "B". Further, OC SAN will require the CONSULTANT to substitute any insurer whose rating drops below the levels herein specified. Said substitution shall occur within 20 days of written notice to the CONSULTANT, by OC SAN or its agent.
- iii. Coverage shall be in effect prior to the commencement of any work under this Agreement.

### B. General Liability

The CONSULTANT shall maintain during the life of this Agreement, including the period of warranty, commercial general liability insurance written on an occurrence basis providing the following minimum limits of liability coverage of one million dollars (\$1,000,000) per occurrence with two million dollars (\$2,000,000) aggregate. If aggregate limits apply separately to this contract (as evidenced by submission of ISO form CG 25 03 or 25 04), then the aggregate limit may be equivalent to the per occurrence limit. Said insurance shall include coverage for the following hazards: premises-operations, blanket contractual liability (for this Agreement), products liability/completed operations (including any product manufactured or assembled), broad form property damage, blanket contractual liability, independent contractors liability, personal and advertising injury, mobile equipment, owners and contractors protective liability, and cross liability and severability of interest clauses. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement(s). If requested by OC SAN and applicable, XCU coverage (Explosion, Collapse and Underground) and Riggers/On Hook Liability must be included in the general liability policy and coverage must be reflected on the submitted certificate of insurance.



C. Umbrella Excess Liability

The minimum limits of general liability and automobile liability insurance required, as set forth herein, shall be provided for through either a single policy of primary insurance or a combination of policies of primary and umbrella excess coverage. Umbrella excess liability coverage shall be issued with limits of liability which, when combined with the primary insurance, will equal the minimum limits for general liability and automobile liability.

D. Automobile/Vehicle Liability Insurance

The CONSULTANT shall maintain a policy of automobile liability insurance on a comprehensive form covering all owned, non-owned, and hired automobiles, trucks, and other vehicles providing the following minimum limit of liability coverage: combined single limit of five hundred thousand dollars (\$500,000). A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement.

E. Drone Liability Insurance

If a drone will be used, drone liability insurance must be maintained by the CONSULTANT in the amount of one million dollars (\$1,000,000) in a form acceptable to OC SAN.

F. Workers' Compensation Insurance

The CONSULTANT shall provide such workers' compensation insurance as required by the Labor Code of the State of California in the amount of the statutory limit, including employer's liability insurance with a minimum limit of one million dollars (\$1,000,000) per occurrence. Such workers' compensation insurance shall be endorsed to provide for a waiver of subrogation in favor of OC SAN. A statement on an insurance certificate will not be accepted in lieu of the actual endorsements unless the insurance carrier is State of California Insurance Fund and the identifier "SCIF" and endorsement numbers 2570 and 2065 are referenced on the certificate of insurance. If an exposure to Jones Act liability may exist, the insurance required herein shall include coverage for Jones Act claims.

G. Errors and Omissions/Professional Liability

The CONSULTANT shall maintain in full force and effect, throughout the term of this Agreement, standard industry form professional negligence errors and omissions insurance coverage in an amount of not less than two million dollars (\$2,000,000) with limits in accordance with the provisions of this paragraph. If the policy of insurance is written on a "claims made" basis, said policy shall be continued in full force and effect at all times during the term of this Agreement, and for a period of five years from the date of the completion of the services hereunder.

In the event of termination of said policy during this period, the CONSULTANT shall obtain continuing insurance coverage for the prior acts or omissions of the CONSULTANT during the course of performing services under the term of this Agreement. Said coverage shall be evidenced by either a new policy evidencing no gap in coverage or by separate extended “tail” coverage with the present or new carrier.

In the event the present policy of insurance is written on an “occurrence” basis, said policy shall be continued in full force and effect during the term of this Agreement or until completion of the services provided for in this Agreement, whichever is later. In the event of termination of said policy during this period, new coverage shall be obtained for the required period to insure for the prior acts of the CONSULTANT during the course of performing services under the term of this Agreement.

The CONSULTANT shall provide to OC SAN a certificate of insurance in a form acceptable to OC SAN indicating the deductible or self-retention amounts and the expiration date of said policy and shall provide renewal certificates not less than 10 days prior to the expiration of each policy term.

H. Proof of Coverage

The CONSULTANT shall furnish OC SAN with original certificates and amendatory endorsements effecting coverage. Said policies and endorsements shall conform to the requirements herein stated. All certificates and endorsements are to be received and approved by OC SAN before work commences. OC SAN reserves the right to require, at any time, complete, certified copies of all required insurance policies, including endorsements, effecting the coverage required. The following are approved forms that must be submitted as proof of coverage:

- Certificate of Insurance      ACORD Form or other equivalent certificate of insurance form
  
- Additional Insurance      The combination of (ISO Forms)  
   (General Liability)      CG 20 10 and CG 20 37
  
- All other additional insured endorsements must be submitted for approval by OC SAN, and OC SAN may reject alternatives that provide different or less coverage to OC SAN.
  
- Additional Insured      Submit endorsement provided by carrier for  
   (Automobile Liability)    OC SAN approval.
  
- Waiver of Subrogation      Submit workers’ compensation waiver of subrogation endorsement provided by carrier for OC SAN approval.

- Cancellation Notice No endorsement is required. However, the CONSULTANT is responsible for notifying OC SAN of any pending or actual insurance policy cancellation, as described in Article I. Cancellation and Policy Change Notice, below.

I. Cancellation and Policy Change Notice

The CONSULTANT is required to notify OC SAN in writing of any insurance cancellation notice it receives or other knowledge of pending or actual insurance policy cancellation, within two working days of receipt of such notice or acquisition of such knowledge. Additionally, the CONSULTANT is required to notify OC SAN in writing of any change in the terms of insurance, including reduction in coverage or increase in deductible/SIR, within two working days of receipt of such notice or knowledge of same.

Said notices shall be mailed to OC SAN at:

ORANGE COUNTY SANITATION DISTRICT  
 10844 Ellis Avenue, Fountain Valley, CA 92708  
 Attention: Contracts, Purchasing & Materials Management Division

J. Primary Insurance

The general and automobile liability policies shall contain a “Primary and Non-Contributory” clause. Any other insurance maintained by OC SAN shall be excess and not contributing with the insurance provided by the CONSULTANT.

K. Separation of Insured

The general and automobile liability policies shall contain a “Separation of Insureds” clause.

L. Non-Limiting (if applicable)

Nothing in this document shall be construed as limiting in any way, nor shall it limit the indemnification provision contained in this Agreement, or the extent to which the CONSULTANT may be held responsible for payment of damages to persons or property.

M. Deductibles and Self-Insured Retentions

Any deductible and/or self-insured retention must be declared to OC SAN on the certificate of insurance. All deductibles and/or self-insured retentions require acceptance by OC SAN. At the option of OC SAN, either: the insurer shall reduce or eliminate such deductible or self-insured retention as respects OC SAN; or the CONSULTANT shall provide a financial guarantee satisfactory to OC SAN guaranteeing payment of losses and related investigations, claim administration and defense expenses.

N. Defense Costs

The general and automobile liability policies shall have a provision that defense costs for all insureds and additional insureds are paid in addition to and do not deplete any policy limits.

O. Subconsultants

The CONSULTANT shall be responsible to establish insurance requirements for any Subconsultant hired by the CONSULTANT. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the Subconsultant's operations and work.

P. Limits Are Minimums

If the CONSULTANT maintains higher limits than any minimums shown above, then OC SAN requires and shall be entitled to coverage for the higher limits maintained by the CONSULTANT.

**8. SCOPE CHANGES**

In the event of a change in the SOW or other terms in the Agreement, as requested by OC SAN, the parties hereto shall execute an amendment to this Agreement setting forth with particularity all terms of the new Agreement, including, but not limited to, any additional CONSULTANT's fees. The CONSULTANT hereby agrees to use any and all procedures, programs, and systems required by OC SAN to process and execute such amendment(s), including, but not limited to, computer programs and systems.

**9. PROJECT TEAM AND SUBCONSULTANTS**

The CONSULTANT shall provide to OC SAN, prior to execution of this Agreement, the names and full description of all Subconsultants and CONSULTANT's project team members anticipated to be used on this project by the CONSULTANT. The CONSULTANT shall include a description of the scope of work to be done by each Subconsultant and each CONSULTANT's project team member. The CONSULTANT shall include the respective compensation amounts for the CONSULTANT and each Subconsultant on a per task basis, broken down as indicated in Section 2 - COMPENSATION.

There shall be no substitution of the listed Subconsultants and the CONSULTANT's project team members without prior written approval by OC SAN.

**10. ENGINEERING REGISTRATION**

The CONSULTANT's personnel are comprised of registered engineers and a staff of specialists and draftsmen in each department. The firm itself is not a registered engineer but represents and agrees that wherever in the performance of this Agreement requires the services of a registered engineer, such services hereunder will be performed under the direct supervision of registered engineers.

## 11. AUDIT PROVISIONS

- A. OC SAN retains the reasonable right to access, review, examine, and audit, any and all books, records, documents and any other evidence of procedures and practices that OC SAN determines are necessary to discover and verify that the CONSULTANT is in compliance with all requirements under this Agreement. The CONSULTANT shall include OC SAN's right as described above, in any and all of their subcontracts, and shall ensure that these rights are binding upon all Subconsultants.
- B. OC SAN retains the right to examine the CONSULTANT's books, records, documents and any other evidence of procedures and practices that OC SAN determines are necessary to discover and verify all direct and indirect costs, of whatever nature, which are claimed to have been incurred, or anticipated to be incurred or to ensure the CONSULTANT's compliance with all requirements under this Agreement during the term of this Agreement and for a period of three years after its termination.
- C. The CONSULTANT shall maintain complete and accurate records in accordance with generally accepted industry standard practices and OC SAN's policy. The CONSULTANT shall make available to OC SAN for review and audit, all project related accounting records and documents, and any other financial data within 15 days after receipt of notice from OC SAN. Upon OC SAN's request, the CONSULTANT shall submit exact duplicates of originals of all requested records to OC SAN. If an audit is performed, the CONSULTANT shall ensure that a qualified employee of the CONSULTANT will be available to assist OC SAN's auditor in obtaining all project related accounting records and documents, and any other financial data.

## 12. LEGAL RELATIONSHIP BETWEEN PARTIES

The legal relationship between the parties hereto is that of an independent contractor and nothing herein shall be deemed to make the CONSULTANT an employee of OC SAN.

## 13. NOTICES

All notices hereunder and communications regarding the interpretation of the terms of this Agreement, or changes thereto, shall be effected by delivery of said notices in person or by depositing said notices in the U.S. mail, registered or certified mail, return receipt requested, postage prepaid.

Notices shall be mailed to OC SAN at:

ORANGE COUNTY SANITATION DISTRICT  
10844 Ellis Avenue  
Fountain Valley, CA 92708  
Attention: Larry Roberson, Senior Contracts Administrator  
Copy: Hardat Khublall, Project Manager

Notices shall be mailed to CONSULTANT at:

MICHAEL BAKER INTERNATIONAL, INC.  
5 Hutton Center Drive, Suite 500  
Santa Ana, CA 92707  
Attention: David Mercier, Vice President, Water Practice Executive  
Copy: John Nagle, Project Manager

All communication regarding the SOW, will be addressed to the Project Manager. Direction from other OC SAN's staff must be approved in writing by OC SAN's Project Manager prior to action by the CONSULTANT.

#### **14. TERMINATION**

OC SAN may terminate this Agreement at any time, without cause, upon giving 30 days written notice to the CONSULTANT. In the event of such termination, the CONSULTANT shall be entitled to compensation for work performed on a prorated basis through and including the effective date of termination.

The CONSULTANT shall be permitted to terminate this Agreement upon 30 days written notice only if the CONSULTANT is not compensated for billed amounts in accordance with the provisions of this Agreement, when the same are due.

Notice of termination shall be mailed to OC SAN and/or the CONSULTANT in accordance with Section 13 - NOTICES.

#### **15. DOCUMENTS AND STUDY MATERIALS**

The documents and study materials for this project shall become the property of OC SAN upon the termination or completion of the work. The CONSULTANT agrees to furnish to OC SAN copies of all memoranda, correspondence, computation, and study materials in its files pertaining to the work described in this Agreement, which is requested in writing by OC SAN.

#### **16. COMPLIANCE**

##### **A. Labor**

The CONSULTANT certifies by the execution of this Agreement that it pays employees not less than the minimum wage as defined by law, and that it does not discriminate in its employment with regard to race, color, religion, sex or national origin; that it is in compliance with all federal, state and local directives and executive orders regarding non-discrimination in employment; and that it agrees to demonstrate positively and aggressively the principle of equal opportunity in employment.

##### **B. Air Pollution**

The CONSULTANT and its Subconsultants and subcontractors shall comply with all applicable federal, state and local air pollution control laws and regulations.

C. Iran Contracting Act

The CONSULTANT and its Subconsultants and subcontractors shall comply with the Iran Contracting Act of 2010 (Public Contract Code sections 2200-2208).

**17. AGREEMENT EXECUTION AUTHORIZATION**

Both OC SAN and the CONSULTANT do covenant that each individual executing this document by and on behalf of each party is a person duly authorized to execute agreements for that party.

**18. DISPUTE RESOLUTION**

In the event of a dispute arising between the parties regarding performance or interpretation of this Agreement, the dispute shall be resolved by binding arbitration under the auspices of the Judicial Arbitration and Mediation Service (“JAMS”), or similar organization or entity conducting alternate dispute resolution services.

**19. ATTORNEY'S FEES, COSTS AND NECESSARY DISBURSEMENTS**

If any action at law or in equity or if any proceeding in the form of an Alternative Dispute Resolution (ADR) is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and necessary disbursements in addition to any other relief to which it may be entitled.

**20. PROGRESS REPORTS**

Monthly progress reports shall be submitted for review by the tenth day of the following month and must include as a minimum: 1) current activities, 2) future activities, 3) potential items that are not included in the SOW, 4) concerns and possible delays, 5) percentage of completion, and 6) budget status.

**21. WARRANTY**

The CONSULTANT shall perform its services in accordance with generally accepted industry and professional standards. If, within the 12-month period following completion of its services, OC SAN informs the CONSULTANT that any part of the services fails to meet those standards, the CONSULTANT shall, within the time prescribed by OC SAN, take all such actions as are necessary to correct or complete the noted deficiency(ies).

**22. INDEMNIFICATION**

To the fullest extent permitted by law, the CONSULTANT shall indemnify, protect and hold harmless OC SAN and all of OC SAN's officers, directors, employees, consultants, and agents (collectively the “Indemnified Parties”), from and against any and all claims, damages, liabilities, causes of action, suits, arbitration awards, losses, judgments, fines,

penalties, costs and expenses including without limitation, reasonable attorneys' fees, disbursements and court costs, and all other professional, expert or consultants fees and costs and OC SAN's general and administrative expenses (individually, a "Claim", or collectively, "Claims") which may arise from or are in any manner related, directly or indirectly, to any work performed, or any operations, activities, or services provided by the CONSULTANT in carrying out its obligations under this Agreement to the extent of the negligent, recklessness and/or willful misconduct of the CONSULTANT, its principals, officers, agents, employees, the CONSULTANT's suppliers, consultants, Subconsultants, subcontractors, and/or anyone employed directly or indirectly by any of them. Notwithstanding the foregoing, nothing herein shall be construed to require the CONSULTANT to indemnify the Indemnified Parties from any Claim arising from:

- (A) the sole or active negligence or willful misconduct of the Indemnified Parties; or
- (B) a natural disaster or other act of God, such as an earthquake; or
- (C) the independent action of a third party who is neither one of the Indemnified Parties nor the CONSULTANT, nor its principal, officer, agent, employee, nor the CONSULTANT's supplier, consultant, Subconsultant, subcontractor, nor anyone employed directly or indirectly by any of them.

Exceptions (A) through (B) above shall not apply, and the CONSULTANT shall, to the fullest extent permitted by law, indemnify the Indemnified Parties, from claims arising from more than one cause if any such cause taken alone would otherwise result in the obligation to indemnify hereunder.

The CONSULTANT's liability for indemnification hereunder is in addition to any liability the CONSULTANT may have to OC SAN for a breach by the CONSULTANT of any of the provisions of this Agreement. Under no circumstances shall the insurance requirements and limits set forth in this Agreement be construed to limit the CONSULTANT's indemnification obligation or other liability hereunder.

The terms of this Agreement are contractual and the result of negotiation between the parties hereto. Accordingly, any rule of construction of contracts (including, without limitation, California Civil Code Section 1654) that ambiguities are to be construed against the drafting party, shall not be employed in the interpretation of this Agreement.

## **23. DUTY TO DEFEND**

The duty to defend hereunder is wholly independent of and separate from the duty to indemnify and such duty to defend shall exist regardless of any ultimate liability of the CONSULTANT and shall be consistent with Civil Code Section 2782.8. Such defense obligation shall arise immediately upon presentation of a Claim by any person if, without regard to the merit of the Claim, such Claim could potentially result in an obligation to indemnify one or more Indemnified Parties, and upon written notice of such Claim being provided to the CONSULTANT. Payment to the CONSULTANT by any Indemnified Party or the payment or advance of defense costs by any Indemnified Party shall not be a condition precedent to enforcing such Indemnified Party's rights to indemnification hereunder. In the event a final judgment, arbitration, award, order, settlement, or other final resolution expressly determines that the Claim did not arise out of, pertain to, or



relate to the negligence, recklessness, or willful misconduct of the CONSULTANT, to any extent, then OC SAN will reimburse the CONSULTANT for any defense costs paid by CONSULTANT to the Indemnified Parties against such claims.

The CONSULTANT's indemnification obligation hereunder shall survive the expiration or earlier termination of this Agreement until such time as action against the Indemnified Parties for such matter indemnified hereunder is fully and finally barred by the applicable statute of limitations.

#### **24. CONSULTANT PERFORMANCE**

The CONSULTANT's performance shall be evaluated by OC SAN. A copy of the evaluation shall be sent to the CONSULTANT for comment. The evaluation, together with the comments, shall be retained by OC SAN and may be considered in future CONSULTANT selection processes.

#### **25. COMPLIANCE WITH OC SAN POLICIES AND PROCEDURES**

The CONSULTANT shall comply with all OC SAN policies and procedures including the Contractor Safety Standards, as applicable, all of which may be amended from time to time.

#### **26. FORCE MAJEURE**

CONSULTANT shall not be liable for any failure to perform or any impairment to its performance to the extent such failure or impairment is caused by any act of God, fire, flood, natural catastrophe, labor dispute or strike or shortage, national or state emergency, epidemic or pandemic, insurrection, riot, act of terrorism, war, act of government, any action or inaction of OC SAN or a third-party engaged by it, and/or any other event, occurrence or circumstance beyond the reasonable control of CONSULTANT. The compensation due CONSULTANT and the schedule governing the timing for CONSULTANT's performance shall be equitably increased and extended, respectively, to address any such impacts to CONSULTANT's performance, upon approval of OC SAN.

#### **27. LIMITATION OF LIABILITY**

CONSULTANT's liability to OC SAN under this Agreement shall be limited to the proceeds of insurance carried by CONSULTANT under this Agreement, but only to the extent CONSULTANT actually purchases and maintains the insurance required under this Agreement.

#### **28. COST ESTIMATE**

CONSULTANT's opinion of probable construction costs provided for herein are to be made on the basis of professional experience and qualifications and represent CONSULTANT's reasonable judgment as an experienced and qualified professional generally familiar with the construction industry. However, since CONSULTANT has no control over the cost of labor, materials, equipment, or services furnished by others, or over any contractor's methods of determining prices, or over competitive bidding or

market conditions, CONSULTANT cannot and does not guarantee that proposals, bids, or actual cost of construction will not vary from opinions of probable construction costs prepared by CONSULTANT. If OC SAN wishes greater assurance as to probable construction cost, OC SAN may employ an independent cost estimator.

## **29. CLOSEOUT**

When OC SAN determines that all work authorized under the Agreement is fully complete and that OC SAN requires no further work from the CONSULTANT, or the Agreement is otherwise terminated or expires in accordance with the terms of the Agreement, OC SAN shall give the CONSULTANT written notice that the Agreement will be closed out. The CONSULTANT shall submit all outstanding billings, work submittals, deliverables, reports or similarly related documents as required under the Agreement within 30 days of receipt of notice of Agreement closeout.

Upon receipt of the CONSULTANT's submittals, OC SAN shall commence a closeout audit of the Agreement and will either:

- i. Give the CONSULTANT a final Agreement Acceptance: or
- ii. Advise the CONSULTANT in writing of any outstanding item or items which must be furnished, completed, or corrected at the CONSULTANT's cost.

The CONSULTANT shall be required to provide adequate resources to fully support any administrative closeout efforts identified in this Agreement. Such support must be provided within the timeframe requested by OC SAN.

Notwithstanding the final Agreement Acceptance the CONSULTANT will not be relieved of its obligations hereunder, nor will the CONSULTANT be relieved of its obligations to complete any portions of the work, the non-completion of which were not disclosed to OC SAN (regardless of whether such nondisclosures were fraudulent, negligent, or otherwise); and the CONSULTANT shall remain obligated under all those provisions of the Agreement which expressly or by their nature extend beyond and survive final Agreement Acceptance.

Any failure by OC SAN to reject the work or to reject the CONSULTANT's request for final Agreement Acceptance as set forth above shall not be deemed to be acceptance of the work by OC SAN for any purpose nor imply acceptance of, or agreement with, the CONSULTANT's request for final Agreement Acceptance.

## **30. ENTIRE AGREEMENT**

This Agreement constitutes the entire understanding and agreement between the Parties and supersedes all previous negotiations between them pertaining to the subject matter thereof.

IN WITNESS WHEREOF, this Agreement has been executed in the name of OC SAN and the CONSULTANT by their respective duly authorized officers as of the day and year first written above.

**CONSULTANT: MICHAEL BAKER INTERNATIONAL, INC.**

By \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_  
Printed Name & Title

**ORANGE COUNTY SANITATION DISTRICT**

By \_\_\_\_\_ Date \_\_\_\_\_  
Chad P. Wanke  
Board Chairman

By \_\_\_\_\_ Date \_\_\_\_\_  
Kelly A. Lore  
Clerk of the Board

By \_\_\_\_\_ Date \_\_\_\_\_  
Ruth Zintzun  
Purchasing & Contracts Manager

- Attachments: Attachment "A" – Scope of Work  
Attachment "B" – Not Used  
Attachment "C" – Not Used  
Attachment "D" – Allowable Direct Costs  
Attachment "E" – Fee Proposal  
Attachment "F" – Not Used  
Attachment "G" – Not Attached  
Attachment "H" – Not Used  
Attachment "I" – Cost Matrix and Summary  
Attachment "J" – Not Used  
Attachment "K" – Minor Subconsultant Hourly Rate Schedule  
Attachment "L" – Contractor Safety Standards  
Attachment "M" – Iran Contracting Act Verification

LDR:ms

# **ATTACHMENT “A”**

## **SCOPE OF WORK**

**MacArthur Force Main Improvements  
Project No. 7-68**

**PROFESSIONAL CONSTRUCTION SERVICES AGREEMENT  
REQUEST FOR PROPOSAL**

**ATTACHMENT "A" - SCOPE OF WORK**

**Final Negotiated Scope of Work**

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## 1. SUMMARY

Provide construction engineering support services for the construction and installation, and closeout phases for the MacArthur Force Main Improvements, Project No. 7-68.

## 2. PROJECT SCHEDULE

The schedule for the services specified in this Scope of Work (SOW) shall be provided per the construction contract schedule, and the following schedule constraints:

<b>Task(s)</b>	<b>Period of Performance</b>
Provide Construction and Installation Services	8/03/2023 to 8/09/2024
Submittals	As described under Task 4.4 titled "Submittal Reviews" Critical submittals, necessary for permitting or required to break ground, shall take priority.
Requests for Information	As described under Task 4.5 titled "Request for Information (RFI)"
Record Drawings	Draft Record Drawings shall be submitted to OC SAN within 30 calendar days of receipt from OC SAN of the approved Contractor's As-Built Drawings. The final Record Drawings shall be submitted within 15 calendar days of receipt of OC SAN comments on the Draft Record Drawings.
<b>TOTAL SCHEDULED TIME</b>	<b>Approximately 14 months</b>

## 3. PROJECT IMPLEMENTATION

All Orange County Sanitation District (OC SAN) projects are divided into six phases. The CONSULTANT shall provide construction engineering support services for Phase 4 – Construction and Installation Services, and Phase 6 – Closeout.

Phase 1 – Project Development – *Completed*

Phase 2 – Preliminary Design – *Completed*

Phase 3 – Final Design – *Completed*

**Phase 4 – Construction and Installation Services**

Phase 5 – Not Used

**Phase 6 – Closeout**

### PHASE 4 – CONSTRUCTION AND INSTALLATION SERVICES

OC SAN will administer and provide field inspection for the construction contract. Construction engineering support services shall be provided by the CONSULTANT as requested by OC SAN.

The CONSULTANT shall provide the key management personnel as described in its proposal on this project. The CONSULTANT shall not reassign the key project personnel without prior approval of OC SAN. OC SAN may request the reassignment of any of the CONSULTANT's or its subconsultant's personnel, based on poor performance.

For all services, the CONSULTANT shall refer to the Engineering Design Guidelines (EDG), Chapter 01 for detailed requirements.

Quality Assurance/Quality Control (QA/QC): The CONSULTANT shall administer a program of QA/QC procedures for producing quality work and shall effectively manage and control the work. Specific procedures shall include but not be limited to planning, coordination, tracking, checking, reviewing, and scheduling the work. The CONSULTANT shall subject all work products prepared by the CONSULTANT to the CONSULTANT's in-house QA/QC procedures prior to submittal to OC SAN. QA/QC hours and costs shall be incorporated into other tasks within this SOW.

#### **Task 4.1 – Project Management**

The CONSULTANT shall be responsible for detailed management of the project, including managing its subconsultants, and shall keep OC SAN apprised of the status of the project.

The CONSULTANT shall conduct monthly project management meetings with OC SAN's Project Manager by conference call. These meetings shall be attended by OC SAN's Project Manager and the CONSULTANT's Project Manager at a mutually agreeable time, generally around the second week of the month. The purpose of the meetings shall be to review the CONSULTANT Project Manager's progress report, status of the project scope, budget, and any issues which may affect the completion of the project. Meetings should be arranged so that the progress report can be submitted shortly prior to or at each meeting.

Invoices: The CONSULTANT shall prepare and submit monthly invoices to OC SAN. The invoices shall document the labor hours and billing rate for each person that works on the project for each task in the work breakdown structure (WBS). Overhead, profit, and any direct costs shall also be shown for each task. As part of the summary section of the invoice, the CONSULTANT shall also include the following information:

- Budget
- Current billing period invoicing
- Previous billing period "total invoiced to date"
- Budget amount remaining
- Current billing period "total percent invoice to date"
- Current billing period "total percent completed to date"



Progress Reports: The monthly progress report shall be submitted with the project invoice as part of the monthly request for payment. The monthly progress report shall include the following:

- Work completed in the billing period
- Work anticipated for the upcoming month
- Outstanding project issues
- Status and issues impacting project scope and budget
- Log documenting work completed on past requests for information (RFIs), submittal reviews, and change order preparation
- Percent complete, tabulated on a per-task basis
- Cost to complete, tabulated on a per-task basis
- Overall project budget, tabulated on a per-task basis
- Travel and site visit summary
- Risks along with a log
- Out of scope items log

The CONSULTANT shall also provide the percent budget spent for each of OC SAN's WBS cost codes (i.e., by work package and phase). OC SAN shall provide a list of cost codes by phase to the CONSULTANT.

OC SAN will provide a sample invoice structure to the CONSULTANT after the issuance of the Notice to Proceed (NTP) for this SOW.

#### 4.1.1 – PMWeb Procedures

This Professional Construction Services Agreement (Agreement) shall utilize PMWeb as the Project Control Management System (PCMS) for the overall management of the Agreement. All PCMS-related documents requiring formal signatures shall be digital, and all copies digitally distributed. The PCMS conforms to the requirements set forth in California Government Code section 16.5 regarding digital signatures; therefore, digital signatures are in full force and effect and are legally the same as a hand-written signature. At least one PCMS account shall have the authority to approve amendments.

OC SAN shall maintain the PCMS and serve as the administrator for the duration of this Agreement. OC SAN will provide the CONSULTANT with user access for approved personnel as needed for the duration of the Agreement. OC SAN shall control access to the PCMS by assigning user profiles and login credentials. The CONSULTANT shall notify OC SAN of any changes to personnel. Access modifications shall be coordinated as needed throughout the Agreement. Do not share PCMS account passwords with anyone inside or outside of the company.

Routine maintenance of the PCMS system may be required during the Agreement. Access to the PCMS system may be restricted or unavailable at these times and will be scheduled outside of typical working hours whenever possible.

The PCMS is a web-based environment and is therefore subject to the inherent speed and connectivity problems of the Internet. The CONSULTANT is responsible for its own connectivity to the Internet. PCMS response time is dependent on the CONSULTANT's equipment, including processor speed, Internet access speed, Internet traffic, etc.

OC SAN will not be liable for any delays associated with the utilization of the PCMS including, but not limited to slow response time, downtime periods, connectivity problems, or loss of information.

OC SAN will provide a one-time virtual training session using MS Teams of up to two hours to train the CONSULTANT's designated staff on general system requirements, procedures, and methods.

Automated system notifications generated by PCMS (e.g., in-system notices, system-generated email, or email with attachment) shall constitute a formal written notification in compliance with the Agreement.

## **Task 4.2 – Workshops and Project Meetings**

### 4.2.1 - Construction Hand-Off Workshop

The CONSULTANT shall participate in a one-hour virtual Construction Hand-Off Workshop using MS Teams. The purpose of the workshop is for the CONSULTANT and OC SAN design teams to transfer project-specific knowledge to OC SAN construction management and inspection staff that will be managing and monitoring construction. Topics that might be covered in this meeting include the following:

- Overview of the objective of the project
- Review of project elements
- Review of sequencing constraints
- Key issues to be addressed during construction
- Identification of risks and discussions of contingency plans

The workshop will be led by the CONSULTANT.

### 4.2.2 - PMWeb Procedures Meeting and Submittal Review Procedures Meeting

The CONSULTANT shall participate in a one-hour virtual PMWeb procedure meeting and submittal procedure meeting using MS Teams. The purpose of this meeting is to review the roles and logistics for the review and acceptance of construction contract documents and Contractor submittals. The CONSULTANT's Project Manager and Project Engineer shall attend.

The project will utilize PMWeb for submittal reviews, project communication, tracking, and management. When required by OC SAN, paper documents shall also be provided. In the event of a discrepancy between the electronic version and paper documents, the electronic documents within PCMS shall govern.

### 4.2.3 - Preconstruction Team Conference

The CONSULTANT shall participate in a two-hour virtual Preconstruction Conference using MS Teams attended by OC SAN staff, the CONSULTANT, the Contractor, subcontractors, public agencies, and vendors. This meeting shall be scheduled and presided over by OC SAN. In this meeting, OC SAN will describe the CONSULTANT's role in the project as the Design Engineer and the services the CONSULTANT will provide during construction. The CONSULTANT's Project Manager and Project Engineer shall attend. OC SAN will prepare meeting minutes and the CONSULTANT shall review and comment on the minutes. No deliverable is required to be prepared by the CONSULTANT.

#### 4.2.4 - Weekly Construction Progress Meetings

The CONSULTANT shall participate by telephone, or via MS Teams, in the weekly construction progress meetings as requested by OC SAN (one hour). The CONSULTANT's Traffic Engineer and other CONSULTANT staff will also be required to attend, as needed. The SOW includes time for meeting preparation, travel time, follow-up, and review of meeting minutes. Progress meeting minutes will be prepared by OC SAN. No deliverable is required to be prepared by the CONSULTANT. Time for CONSULTANT's Traffic Engineer is included under Task 4.8, and time for other CONSULTANT staff is included under Task 4.5.2.

The CONSULTANT shall be available by phone, or via MS Teams, for an internal one-hour weekly construction progress meeting.

See Section V – Quantitative Assumptions in this SOW for the number of hours to be allocated for weekly construction progress meetings.

#### **Task 4.3 – Site Visits and As-Built Reviews**

Site Visits: The CONSULTANT shall make field visits to assist in field problem resolution and design clarification/verification to help resolve construction issues as they arise and as requested by OC SAN. The CONSULTANT's Traffic Engineer shall make field visits to inspect the traffic control setup when requested by OC SAN. The CONSULTANT shall report the nature of the field site visits, the problem resolved, and identify staff requesting the site visit in the CONSULTANT's monthly project report. Time for CONSULTANT's Traffic Engineer is included under Task 4.8.

See Section V – Quantitative Assumptions in this SOW for the effort to be allocated for site visits.

As-Built Review: The CONSULTANT shall review the Contractor's As-Built Drawings at 50 percent of project completion to verify the Contractor has included all relevant information from approved change orders and RFIs. The CONSULTANT shall prepare a report for each of these reviews and submit it to OC SAN. Deliverables shall be as described under Task 6.1.

#### **Task 4.4 – Submittal Reviews**

OC SAN will receive all submittals from the Contractor through PMWeb. OC SAN will send selected shop drawings and submittals for the CONSULTANT's review through PMWeb. The CONSULTANT shall review the shop drawings and submittals for conformance with the requirements of the contract documents within PMWeb and within 10calendar days after receipt of the submittal(s). The CONSULTANT shall return comments to OC SAN allowing sufficient time for OC SAN to incorporate all comments into a combined review comment set that OC SAN will return to the Contractor. The CONSULTANT shall accommodate occasional expedited reviews for time-sensitive submittals. Submittals shall include but not be limited to shop drawings, vendor tests, certifications, and test reports. All submittals will be made available electronically (PDF) through PMWeb.

See Section V – Quantitative Assumptions in this SOW for the effort to be allocated for submittals.

#### **Task 4.5 – Request for Information (RFI)**

The CONSULTANT shall respond to RFIs generated by the Contractor or OC SAN through PMWeb. The CONSULTANT's responses to OC SAN shall be as soon as possible or within five calendar days of receipt of the RFI, clarifying the requirements of the contract documents. The CONSULTANT shall generate necessary sketches, figures, and modifications to the drawings for clarification. When required to avoid schedule delay or additional construction-related costs, the CONSULTANT shall expedite the review of time-sensitive RFIs. It shall also be the goal to return responses for all RFIs on the day they are received (where no significant research, correspondence, or engineering is involved).

If any changes to the drawings are required, the CONSULTANT shall prepare these drawings and submit them through PMWeb as PDF files to OC SAN. The CONSULTANT shall update all AutoCAD drawings and specifications upon OC SAN acceptance of any changes resulting from RFIs and change orders.

The assumption for the effort involved in weekly assistance shall be as indicated under "Quantitative Assumptions" in this SOW.

#### **Task 4.6 – Contract Document Modifications, Design Changes, and Change Orders**

If the contract documents require modifications due to changed conditions, OC SAN requested changes, omissions, or design errors; the CONSULTANT shall prepare preliminary change order documents and forward them to OC SAN as needed. OC SAN shall review the proposed change and request the CONSULTANT to incorporate any changes. OC SAN will issue the change order documents in a formal Request for Proposal (RFP) or Field Change Order (FCO) to the Contractor. The CONSULTANT shall forward design calculations and other design backup documents as necessary to OC SAN. The CONSULTANT shall prepare cost estimates for the changes when requested by OC SAN.

Any contract document that requires changes shall be identified with the date of change and reference (RFI number, RFP number, FCO number, etc.) shown on the document. Changes shown on drawings shall be clearly marked and "clouded" for accurate identification of the scope of the change by the Contractor and inspection staff. The CONSULTANT shall maintain up-to-date contract documents. When a change is required on a contract drawing that has previously undergone a change, the updated drawing showing the previous change shall be used as the base document to identify new changes.

The CONSULTANT shall submit complete change documentation to OC SAN for use in RFIs, RFPs, and FCOs. This change documentation shall include plan drawings, schematics, details, schedules, and specifications, as required.

The CONSULTANT shall also allocate time for required efforts to analyze and provide input on issues that may arise daily such as interference of undisclosed utilities, traffic control issues, bypass evaluations, etc.

See Section V – Quantitative Assumptions in this SOW for the number of hours to be allocated for design changes and cost estimating assistance.

#### **Task 4.7 – Public Outreach (Deleted from Scope of Work)**

#### **Task 4.8 – Traffic Control**

The CONSULTANT shall secure the services of a Traffic Engineer to provide support for review, response, interpretation, and advice on project issues related to traffic control conditions, as well as to attend and participate in key meetings identified herein. Reviews and responses will be needed in support of RFIs, contract document modifications, and change order duties led by the CONSULTANT. The Traffic Engineer may be required to modify and generate new drawings to support the reviews and responses, and coordinate reviews and approvals with the permitting agency. The CONSULTANT's Traffic Engineer may be required to visit the site to inspect the traffic control setup at the request of OC SAN.

#### **Task 4.9 – Geotechnical**

The CONSULTANT shall provide Geotechnical Engineering services to provide support for review, response, interpretation, and advice on project issues related to geotechnical conditions, geotechnical baseline reports, geotechnical logs, and data reports, as well as to attend and participate in key meetings identified herein. The CONSULTANT shall provide reviews and responses in support of shop drawing submittals, RFIs, contract document modifications, and change order duties led by the CONSULTANT.

#### **PHASE 5 – NOT USED**

#### **PHASE 6 – CLOSE OUT**

Closeout tasks include the completion of punch list work by the Contractor, final inspection, completion of Record Drawings, and electronic data. The CONSULTANT shall submit a final invoice at the completion of the project.

#### **Task 6.1 – Record Drawings**

When requested by OC SAN, the CONSULTANT shall attend one preliminary as-built meeting with OC SAN and the Contractor to inspect the Contractor's draft As-Built Drawings to verify that the Contractor has included all relevant information from approved change orders and RFIs. As part of the review process, the CONSULTANT shall verify that the Contractor's draft As-Built Drawings correctly reflect the information included in the approved shop drawings, RFI's approved FCOs, plan clarifications, plan changes, and other deviations from the conformed drawings, and that the information in the set is complete. Based on the findings, the CONSULTANT shall prepare an email summary on the completeness of the field markup set. The CONSULTANT shall allow for one meeting/visit to review the Contractor's in-progress As-Built Drawings. It is anticipated this meeting will occur when construction is at 50 percent complete.

After completion of construction, OC SAN will transmit to the CONSULTANT the Contractor's final As-Built Drawings. At that time, the CONSULTANT shall meet with OC SAN's Inspectors and Resident Engineer to ensure Contractor's As-Built Drawings for completeness.

The CONSULTANT shall prepare draft Record Drawings from the Contractor's final As-Built Drawings for all drawings in accordance with the requirements in the CAD Manual. The CONSULTANT shall submit the draft Record Drawings to the OC SAN Resident Engineer. The draft Record Drawings will be reviewed for content and CAD compliance by OC SAN staff. A comment log will be returned to the CONSULTANT and, if any comments are generated, the

CONSULTANT shall revise the Record Drawings and resubmit them to the Resident Engineer for review of the changes and acceptance of the Record Drawings.

When no additional comments are identified, the CONSULTANT shall prepare the final Record Drawings and submit them to the OC SAN Project Manager. All hard copies of the Contractor’s final As-Built Drawings shall be returned to OC SAN at this same time. All Record Drawings shall contain a stamp indicating:

**Record Drawings**

These Record Drawings have been prepared based on information provided by others. The engineer has not verified the accuracy of this information and shall not be responsible for any errors or omissions which may be herein as a result.

The stamp shall optimally be placed in the bottom right-hand corner of the border and may be included by x-ref. If importing the stamp by x-ref interferes with content in the bottom right-hand corner, the stamp may also be placed in other open spaces along the bottom of the border. In addition, a note shall be placed over the engineer’s seal stating that “This drawing was originally approved for construction by [name of engineer] on [date] and sealed by [name of engineer] a licensed professional engineer in the State of California No. [License number] “. The CONSULTANT shall submit an electronic copy of the Record Drawings to OC SAN for review and acceptance. The acceptance of the Record Drawings shall be deemed a condition for the completion of work.

The Contractor generated as-built drawings described in the EDG and the shop drawings will not be updated by the CONSULTANT.

The format and quantities for delivery of the submittals shall be as specified in the EDG section titled “Software and Electronic File Format Requirements” and as listed below:

<b>Contents</b>	<b>Draft Record Drawings</b>	<b>Final Record Drawings</b>
Hard Copy Sets	None	None
All related electronic files, including CAD and compiled PDFs, excluding Traffic Control Sheets	Transmit Electronic Files to OC SAN	Transmit Electronic Files to OC SAN

**Task 6.2 – Project Management**

The CONSULTANT shall also include project management support labor hours related to closeout activities per requirements stated in Phase 4, Project Management Task.

**4. STAFF ASSISTANCE**

The OC SAN staff member assigned to work with the CONSULTANT on the construction phase of this project is Hardat Khublall at (714) 720-6965, email to: [hkhublall@ocsan.gov](mailto:hkhublall@ocsan.gov).

## 5. QUANTITATIVE ASSUMPTIONS

The assumptions listed in the following tables below shall be the basis for the assumed level of effort.

<b>Task</b>	<b>Description</b>	<b>Assumption</b>
4.1	Project Management	12 months duration from the effective date of the NTP
4.2.4	Virtual Weekly Progress Meetings	44 meetings
4.3	Site Visits	10 in-person visits
4.4	Submittals	80 original submittals items <sup>1</sup> 20 resubmittals
4.5	Requests for Information	50 RFIs
4.5	Weekly Assistance	100 labor hours
4.6	Design Changes	100 labor hours
4.6	Cost Estimating for Design Changes	50 labor hours
4.7	Public Outreach (Deleted)	0 labor hours
4.8	Traffic Control	50 labor hours
4.9	Geotechnical	50 labor hours
6.1	As-Built Review Meetings	1 meeting
6.2	Project Management	2 months duration in the Closeout Phase

<sup>1</sup>Note that each submittal set includes multiple submittal items which may be individually submitted by the Contractor. The counts listed in this table are considering the individual submittal items. The level of effort should assume these all are received individually.

HK:tk