

C O N T R A C T

THIS CONTRACT, hereinafter referred to as “CONTRACT” for purposes of identification hereby numbered MA-080-18010603, and dated _____ day of _____, 20_____ is

BY AND BETWEEN

County of Orange, a political subdivision of the State of California, hereinafter referred to as “COUNTY”

AND

Tetra Tech, Inc., a Delaware Corporation, hereinafter referred to as “A-E”,

which are sometimes individually referred to as “PARTY” or collectively referred to as “PARTIES”.

RECITALS

WHEREAS, COUNTY requires professional services to accomplish projects and/or services (“PROJECTS/SERVICES”) as described in MA-080-18010603 Scope Of Work for On-Call Flood Control Services, hereinafter referred to as “Attachment A,” attached hereto and incorporated herein by reference; and

WHEREAS, A-E is a firm whose principals are, as required by law, registered by the State of California for the practice of specialized A-E services per the attached Scope of Work.

NOW, THEREFORE, IT IS AGREED by and between the parties hereto as follows:

1. GENERAL

1.1. Retainer

1.1.1. COUNTY does hereby retain A-E to perform the PROJECTS/SERVICES as required by this CONTRACT.

1.1.2. A professional, duly registered in the State of California, who shall be assigned to PROJECTS/SERVICES and whose services are offered by A-E and accepted by COUNTY is **Patti Sexton, PE**.

1.1.3. A-E may employ special consultants/contractors for the accomplishment of the PROJECTS/SERVICES specified; and, it is agreed that only the following firms or independent consultants/contractors are to be employed to provide these PROJECTS/SERVICES, and that the aggregate money value of their PROJECTS/SERVICES shall not constitute more than forty-nine percent (49%) of the total amount of PROJECTS/SERVICES required under this CONTRACT:

- a. Corrpro – Corrosion Protection
- b. Lambert Engineering Company – Value Engineering

1.1.4. Consultants/contractors may be substituted and/or added by mutual CONTRACT of A-E and the Director, County of Orange, OC Public Works or his designee, hereinafter

referred to as "DIRECTOR".

- 1.1.5.** A-E's employment of independent consultants/contractors shall not relieve A-E from the performance of its own responsibilities pursuant to this CONTRACT. However, all consultants/contractors independently contracting with COUNTY shall be independently liable to COUNTY for the performance of the work pursuant to their agreements, and A-E shall have no liability for work by contractors independently contracting with COUNTY.

1.2. Projects/Services

1.2.1. Description of PROJECTS/SERVICES

- a. PROJECT/SERVICES to be performed by A-E shall consist of the work as specified herein and as required in Attachment A. If in the event Attachment A shall be in conflict with any provision of this CONTRACT, the wording as set forth in Attachment A shall prevail.
- b. A-E shall be responsible for submitting all PROJECTS/SERVICES to COUNTY in a form which has been thoroughly reviewed and checked for completeness, accuracy and consistency by the registered professional named in Section 1.1.2 herein; and, any PROJECTS/SERVICES not meeting this requirement will be returned to A-E prior to review by COUNTY.

1.2.2. Design Criteria and Standards

All PROJECTS/SERVICES shall be performed in accordance with instructions, criteria and standards set forth by the DIRECTOR.

1.2.3. Scheduling (*subject to change per scope of work specifications of contract task*)

- a. Concurrently with the work of the CONTRACT, A-E shall prepare a progress work schedule and within five (5) working days from the date of receipt of individual assignments from COUNTY, A-E shall submit to COUNTY two (2) copies of a progress work schedule which shall delineate dates of commencement and completion of the various phases of PROJECTS/SERVICES assignments.
A-E schedule shall include required COUNTY review period(s) set forth herein. An approved copy of the progress schedule will be returned to A-E.
- b. A-E shall allow at least five (5) working days for COUNTY review of progress work schedule. In planning work A-E should anticipate and allow ten (10) working days for COUNTY review of each submittal required in Attachment A.
- c. A-E shall meet on an as-needed basis as determined by COUNTY or at least once every four (4) weeks with COUNTY to review progress of work, adherence to progress schedule, coordination of work, scheduling of seminars, if needed, and to resolve any problems that may develop.
- d. Within five (5) working days of each meeting, A-E shall prepare a brief memorandum summarizing the results of the meeting and shall submit it to COUNTY for concurrence.

- e. A-E shall complete all the work of PROJECTS/SERVICES and obtain all approvals by the COUNTY within the time frame indicated in Attachment A except A-E shall not be responsible for any delay beyond the control of A-E.
- f. In the event A-E fails to complete the work and obtain the approval of DIRECTOR in the time allowed, COUNTY shall have the option of completing the work by its own forces or by contract with another firm. The time allowed for A-E to complete the PROJECTS/SERVICES pursuant to this CONTRACT shall be extended for delay caused by COUNTY in completing its work pursuant to this CONTRACT which delay exceeds the agreed COUNTY review and/or approval time periods.

1.3. Assistance by COUNTY STAFF

- 1.3.1.** COUNTY shall assign an appropriate staff member to work with A-E in connection with the work of this CONTRACT. Said staff member's duties will consist of the giving of advice and consultations, assisting A-E in negotiations with other public agencies and private parties, miscellaneous items which in the judgment of A-E or COUNTY's staff warrant attention, and all other duties as may be described in Attachment A.
- 1.3.2.** All of the above activities, however, shall be the primary responsibility of A-E to schedule, initiate and carry through to completion.

1.4. Term and Maximum Compensation

- 1.4.1.** The term of this CONTRACT is for three (3) years, commencing upon Board of Supervisor approval, with a maximum allowable compensation of two million, five hundred thousand dollars (\$2,500,000), with the option to renew for two (2) additional years, with Board approval; except as permitted in Paragraph 1.5 below.

1.5. A-E Compensation and Extra Work

- 1.5.1.** For the PROJECTS/SERVICES authorized under this CONTRACT, A-E shall be compensated in accordance with the following:
- 1.5.2.** For completion and approval of all PROJECTS/SERVICES where "Extra Work" (defined as changes in approved portions of the PROJECT/SERVICES required by and ordered in writing by DIRECTOR which changes constitute a change in or departure from said approved portions of PROJECTS/SERVICES) is not authorized, compensation including reimbursables shall be described and payable as stipulated in Fee Schedule, herein after referred to as "Attachment B", attached hereto and incorporated herein by reference.
- 1.5.3.** Where extra work is authorized for PROJECTS/SERVICES:
 - a. The amount for Extra Work shall be determined using Attachment B. Extra Work shall be required by and ordered in writing by DIRECTOR. If this CONTRACT is not approved by the Board of Supervisors, any change that increases the cumulative CONTRACT price beyond \$100,000 must be approved by the Board. Increases in the CONTRACT amount for services within the existing scope of work may be granted by the DIRECTOR where the amount does not exceed 25 percent of the existing CONTRACT price or \$100,000,

whichever is less.

- b. A-E's billing for the Extra Work shall include but not be limited to names of A-E's staff employed in the Extra Work, classification of employees and number of hours worked.

1.5.4. For partial completion of work of PROJECTS/SERVICES followed by default on part of A-E:

- a. For failure to complete and secure approval of the first required submittal, there shall be no compensation.
- b. For failure to complete and secure approval of other authorized phases, A-E shall, upon completion of PROJECTS/SERVICES by others, be entitled to receive compensation based on approved work of PROJECTS/SERVICES not to exceed the amounts specified in Attachment A for that particular submittal, plus the reasonable value as determined by COUNTY of the non-approved work; provided, however, that if the cost to COUNTY to complete the contract exceeds the amount specified herein, A-E shall be liable to COUNTY for such excess costs attributable to A-E's breach of the CONTRACT.

2. LABOR

2.1 Non-Employment of COUNTY Personnel

2.1.1 A-E agrees that it will neither negotiate, offer, or give employment to any full-time, regular employee of COUNTY in professional classifications of the same skills required for the performance of this CONTRACT who is involved in this Project in a participatory status during the life of this CONTRACT regardless of the assignments said employee may be given or the days or hours employee may work.

2.1.2 Nothing in this CONTRACT shall be deemed to make A-E, or any of A-E's employees or agents, agents or employees of the COUNTY. A-E shall be an independent contractor and shall have responsibility for and control over the details and means for performing the work, provided that A-E is in compliance with the terms of this CONTRACT. Anything in the CONTRACT which may appear to give COUNTY the right to direct A-E as to the details of the performance of the work or to exercise a measure of control over A-E shall mean that A-E shall follow the desires of COUNTY, only in the results of the work.

2.2 Non-Discrimination

2.2.1 In the performance of this CONTRACT, A-E agrees that it will comply with the requirements of the California Labor Code and not engage nor permit any subcontractors to engage in discrimination in employment of persons because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, or sex of such persons.

2.2.2 A-E acknowledges that a violation of this provision shall subject A-E to all the penalties imposed for a violation of the California Labor Code.

2.3 Employee Eligibility Verification

2.3.1 A-E warrants that it fully complies with all Federal and State statutes and regulations regarding the employment of aliens, and others and that all its employees performing work under this CONTRACT meet the citizenship or alien status requirement set forth in Federal statutes and regulations. A-E shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by Federal or State statutes and regulations, including but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. § 1324 et seq., as they currently exist and as they may be hereafter amended. A-E shall retain all such documentation for all covered employees for the period prescribed by the law.

2.4 Independent Contractor

2.4.1 As referenced in Section 2.1.2 of this CONTRACT, A-E shall be considered an independent contractor.

2.4.2 Neither A-E, its employees nor anyone working under A-E shall qualify for workers' compensation or other fringe benefits of any kind through COUNTY.

2.5 Conflict of Interest Contractor Personnel

2.5.1 The A-E shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with the best interests of the COUNTY. This obligation shall apply to the A-E; the A-E's employees, agents, and relatives; sub-tier contractors; and third parties associated with accomplishing work and PROJECTS/SERVICES hereunder.

2.5.2 A-E's efforts shall include, but not be limited to establishing precautions to prevent its employees or agents from: making, receiving, providing or offering gifts, entertainment, payments, loans or other considerations which could be deemed to appear to influence individuals to act contrary to the best interests of the COUNTY.

2.6 Labor Code Notice

2.6.1 All A-E and subcontractors must comply with the requirements of California Labor Code 1770 et seq. if the work performed is considered a "public works" under California Labor Code 1720 et seq. A-E is encouraged to contact the California Department of Industrial Relations for clarification if the A-E is unsure if some or any of the work performed under this CONTRACT qualifies as "public works".

3. INSURANCE

3.1.1 Prior to the provision of services under this CONTRACT, the A-E agrees to purchase all required insurance at A-E's expense, including all endorsements required herein, necessary to satisfy the COUNTY that the insurance provisions of this CONTRACT have been complied with. A-E agrees to keep such insurance coverage, Certificates of Insurance, and endorsements on deposit with the COUNTY during the entire term of this CONTRACT. The COUNTY reserves the right to request the declarations page showing all endorsements and a certified copy of the policy. In addition, all subcontractors performing work on behalf of A-E pursuant to this CONTRACT shall obtain insurance subject to the same terms and conditions as set forth herein for A-E.

- 3.1.2** A-E shall ensure that all subcontractors performing work on behalf of A-E pursuant to this CONTRACT shall be covered under A-E's insurance as an Additional Insured or maintain insurance subject to the same terms and conditions as set forth herein for A-E. A-E shall not allow subcontractors to work if subcontractors have less than the level of coverage required by COUNTY from A-E under this CONTRACT. It is the obligation of A-E to provide notice of the insurance requirements to every subcontractor and to receive proof of insurance prior to allowing any subcontractor to begin work. Such proof of insurance must be maintained by A-E through the entirety of this CONTRACT for inspection by COUNTY representative(s) at any reasonable time.
- 3.1.3** All self-insured retentions (SIRs) shall be clearly stated on the Certificate of Insurance. Any self-insured retention (SIR) in an amount in excess of Fifty Thousand Dollars (\$50,000) shall specifically be approved by the COUNTY's Risk Manager, or designee, upon review of A-E's current audited financial report. If A-E's SIR is approved, A-E, in addition to, and without limitation of, any other indemnity provision(s) in this CONTRACT, agrees to all of the following:
1. In addition to the duty to indemnify and hold the COUNTY harmless against any and all liability, claim, demand or suit resulting from A-E's, its agents, employee's or subcontractor's performance of this CONTRACT, A-E shall defend the COUNTY at its sole cost and expense with counsel approved by Board of Supervisors against same; and
 2. A-E's duty to defend, as stated above, shall be absolute and irrespective of any duty to indemnify or hold harmless; and
 3. The provisions of California Civil Code Section 2860 shall apply to any and all actions to which the duty to defend stated above applies, and the A-E's SIR provision shall be interpreted as though the A-E was an insurer and the COUNTY was the insured.
- 3.1.4** If the A-E fails to maintain insurance acceptable to the COUNTY for the full term of this CONTRACT, the COUNTY may terminate this CONTRACT.
- A. Qualified Insurer
1. The policy or policies of insurance must be issued by an insurer with a minimum rating of A- (Secure A.M. Best's Rating) and VIII (Financial Size Category as determined by the most current edition of the **Best's Key Rating Guide/Property-Casualty/United States or ambest.com**). It is preferred, but not mandatory, that the insurer be licensed to do business in the state of California (California Admitted Carrier).
- If the insurance carrier does not have an A.M. Best Rating of A-/VIII, the CEO/Office of Risk Management retains the right to approve or reject a carrier after a review of the company's performance and financial ratings.
2. The policy or policies of insurance maintained by the A-E shall provide the minimum limits and coverage as set forth below:

<u>Coverage</u>	<u>Minimum Limits</u>
Commercial General Liability	\$1,000,000 per occurrence \$2,000,000 aggregate
Automobile Liability including converge for owned, non-owned and hired vehicles	\$1,000,000 per occurrence
Workers' Compensation	Statutory
Employers' Liability Insurance	\$1,000,000 per occurrence
Professional Liability	\$1,000,000 per claims made or per occurrence \$2,000,000 aggregate
Environmental/Pollution Liability* <i>*(Optional coverage to be required only when hazardous materials are involved. If required, A-E will be notified by COUNTY).</i>	\$1,000,000 per claims made or occurrence

B. Required Coverage Forms

1. The Commercial General Liability coverage shall be written on Insurance Services Office (ISO) form CG 00 01, or a substitute form providing liability coverage as broad.
2. The Business Auto Liability coverage shall be written on ISO form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing liability coverage as broad.

C. Required Endorsements

1. The Commercial General Liability policy shall contain the following endorsements, which shall accompany the Certificate of Insurance:
 - a. An Additional Insured endorsement using ISO form CG 2010 or CG 2033 or a form at least as broad naming the ***County of Orange, Orange County Flood Control District, and their respective elected and appointed officials, officers, employees and agents*** as Additional Insureds, or provide blanket coverage, which will state ***AS REQUIRED BY WRITTEN AGREEMENT.***
 - b. A primary non-contributing endorsement using ISO form CG 20 01 0413, or a form at least as broad evidencing that A-E's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.
2. *(Optional coverage to be required only when hazardous materials are involved. If required A-E will be notified by COUNTY).* The Pollution Liability policy shall contain the following endorsements, which shall accompany the Certificate of Insurance:
 - a. An Additional Insured endorsement naming the ***County of Orange, Orange County Flood Control District, and their respective elected***

and appointed officials, officers, employees and agents as Additional Insureds.

- b. A primary non-contributing endorsement evidencing that A-E's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.
3. The Workers' Compensation policy shall contain a waiver of subrogation endorsement waiving all rights of subrogation against **the County of Orange, Orange County Flood Control District, and their respective elected and appointed officials, officers, employees and agents**, or provide blanket coverage, which will state **AS REQUIRED BY WRITTEN AGREEMENT**.
4. All insurance policies required by this CONTRACT shall waive all rights of subrogation against the County of Orange, its elected and appointed officials, officers, employees and agents when acting within the scope of their appointment or employment.
5. A-E shall notify COUNTY in writing within thirty (30) days of any policy cancellation and ten (10) days for non-payment of premium and provide a copy of the cancellation notice to COUNTY. Failure to provide written notice of cancellation may constitute a material breach of the CONTRACT, upon which the COUNTY may suspend or terminate this CONTRACT.
6. If A-E's Professional Liability policy is a claims-made policy, A-E shall agree to maintain professional liability coverage for two (2) years following completion of CONTRACT.
7. The Commercial General Liability policy shall contain a severability of interests clause (standard in the ISO CG 001 policy).
8. Insurance certificates should be forwarded to the agency/department address listed on the solicitation.
9. If the A-E fails to provide the insurance certificates and endorsements within seven (7) days of notification by CEO/Purchasing or the agency/department purchasing division, award may be made to the next qualified vendor.
10. COUNTY expressly retains the right to require A-E to increase or decrease insurance of any of the above insurance types throughout the term of this CONTRACT. Any increase or decrease in insurance will be as deemed by County of Orange Risk Manager as appropriate to adequately protect COUNTY.
11. COUNTY shall notify A-E in writing of changes in the insurance requirements. If A-E does not deposit copies of acceptable Certificates of Insurance and endorsements with COUNTY incorporating such changes within thirty (30) days of receipt of such notice, this CONTRACT may be in breach without further notice to A-E, and COUNTY shall be entitled to all legal remedies.

12. The procuring of such required policy or policies of insurance shall not be construed to limit A-E's liability hereunder nor to fulfill the indemnification provisions and requirements of this CONTRACT, nor act in any way to reduce the policy coverage and limits available from the insurer.

4. INDEMNITY/COMPLIANCE

4.1 A-E shall indemnify, defend with counsel approved in writing by COUNTY, and hold harmless, the COUNTY, its agents, officers, and employees from employer sanctions and any other liability which may be assessed against A-E or the COUNTY or both in connection with any alleged violation of any Federal or State statutes or regulations pertaining to the eligibility for employment of any persons performing work under this CONTRACT.

4.2 All PROJECTS/SERVICES submitted by A-E shall be complete and shall be carefully checked prior to submission. A-E understands that COUNTY's checking is discretionary, and A-E shall not assume that COUNTY will discover errors and/or omissions. If COUNTY discovers any errors or omissions prior to approving A-E's PROJECTS/SERVICES, the PROJECTS/SERVICES will be returned to A-E for correction. Should COUNTY or others discover errors or omissions in the work submitted by A-E after COUNTY's approval thereof, COUNTY's approval of A-E's PROJECTS/SERVICES shall not be used as a defense by A-E.

4.3 Indemnification

4.3.1 A-E agrees to, indemnify, defend with counsel approved in writing by COUNTY, and hold COUNTY, their elected and appointed officials, officers, employees, agents and those special districts and agencies which COUNTY'S Board of Supervisors acts as the governing Board ("COUNTY INDEMNITEES") harmless from any claims, demands or liability of any kind or nature, including but not limited to personal injury or property damage, arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the A-E. If judgment is entered against A-E and COUNTY by a court of competent jurisdiction because of the concurrent active negligence of A-E and COUNTY or COUNTY INDEMNITEES, A-E and COUNTY agree that liability will be apportioned as determined by the court. Neither party shall request a jury apportionment. Notwithstanding anything stated above, nothing contained herein shall relieve A-E of any insurance requirements or obligations created elsewhere in this CONTRACT.

4.4 Bills and Liens

4.4.1 A-E shall pay promptly all indebtedness for labor, materials and equipment used in performance of the work. A-E shall not permit any lien or charge to attach to the work or the premises, but if any does so attach, A-E shall promptly procure its release and, in accordance with the requirements of the indemnification paragraph above, indemnify, defend, and hold COUNTY harmless and be responsible for payment of all costs, damages, penalties and expenses arising from or related thereto.

4.5 Compliance with Laws

- 4.5.1** A-E represents and agrees that services to be provided under this CONTRACT shall fully comply, at A-E's expense, with all standards, laws, statutes, restrictions, ordinances, requirements, and regulations (collectively "laws"), including, but not limited to those issued by COUNTY in its governmental capacity and all other laws applicable to the PROJECTS/SERVICES at the time PROJECTS/SERVICES are provided to and accepted by COUNTY.
- 4.5.2** A-E acknowledges that COUNTY is relying on A-E for such compliance, and pursuant to the requirements of the indemnification paragraph above, **A-E agrees that it shall defend, indemnify and hold COUNTY and COUNTY INDEMNITEES harmless from all liability, damages, costs and expenses arising from or related to a violation of such laws.**

5. TERMINATION

5.1 Termination of Contract for Cause

- 5.1.1** If A-E breaches any of the covenants or conditions of this CONTRACT, COUNTY shall have the right to terminate this CONTRACT upon ten (10) days written notice prior to the effective day of termination.
- 5.1.2** A-E shall have the opportunity to cure the alleged breach prior to termination.
- 5.1.3** In the event the alleged breach is not cured by A-E prior to termination, all work performed by A-E pursuant to this CONTRACT, which work has been reduced to plans or other documents, shall be made available to COUNTY.

5.2 Termination for Convenience

- 5.2.1** Notwithstanding any other provision of the CONTRACT, COUNTY may at any time, and without cause, terminate this CONTRACT in whole or in part, upon not less than seven (7) calendar days' written notice to the A-E. Such termination shall be effected by delivery to the A-E of a notice of termination specifying the effective date of the termination and the extent of the Work to be terminated.
- 5.2.2** A-E shall immediately stop work in accordance with the notice and comply with any other direction as may be specified in the notice or as provided subsequently by COUNTY.
- 5.2.3** COUNTY shall pay the A-E for the Work completed prior to the effective date of the termination, and such payment shall be the A-E's sole remedy under this CONTRACT.
- 5.2.4** Under no circumstances will A-E be entitled to anticipatory or unearned profits, consequential damages, or other damages of any sort as a result of a termination or partial termination under this Paragraph.
- 5.2.5** A-E shall insert in all subcontracts that the subcontractor shall stop work on the date of and to the extent specified in a notice of termination, and shall require subcontractors to insert the same condition in any lower tier subcontracts.

5.3 Breach of Contract

- 5.3.1** The failure of the A-E to comply with any of the provisions, covenants or conditions of this CONTRACT shall be a material breach of this CONTRACT. In such event, in addition to any other remedies available at law, in equity, or otherwise specified in this CONTRACT, the COUNTY may:
- a. afford the A-E written notice of the breach and ten (10) calendar days or such shorter time that may be specified in this CONTRACT within which to cure the breach;
 - b. discontinue payment to the A-E for and during the period in which the A-E is in breach; and
 - c. offset those monies disallowed pursuant to the above, against any monies billed by the A-E but yet unpaid by the COUNTY.

5.4 Default

- 5.4.1** In the event any equipment or service furnished by the A-E in the performance of this CONTRACT should fail to conform to the specifications therein within one (1) calendar year from the COUNTY's acceptance of the equipment or service, or any performance period specifically specified within the specifications or CONTRACT, whichever is greater, the COUNTY may reject same, and it shall become the duty of the A-E to reclaim and remove the items without expense to the COUNTY and to immediately replace all such rejected equipment or service with others conforming to such specifications, provided that should the A-E fail, neglect or refuse to do so within one hundred and twenty (120) calendar days, the COUNTY shall have the right to purchase on the open market a corresponding quantity of any such equipment or service and to deduct from any monies due or that may thereafter become due to the A-E the difference between the price specified in this CONTRACT and the actual cost to the COUNTY.
- 5.4.2** In the event the A-E shall fail to make prompt delivery as specified of any equipment or service, the same conditions as to the rights of the COUNTY to purchase on the open market and to reimbursement set forth above shall apply, except as otherwise provided in this CONTRACT.
- 5.4.3** In the event of the cancellation of this CONTRACT, either in whole or in part, by reason of the default or breach by the A-E, any loss or damage sustained by the COUNTY in procuring any equipment or service which the A-E agreed to supply under this CONTRACT shall be borne and paid for by the A-E.
- 5.4.4** Default shall include failure to carry out any of the requirements of this CONTRACT, including, but not limited to not providing enough properly skilled workers or proper materials, persistently disregarding laws and or ordinances, not proceeding with the PROJECTS/SERVICES as agreed to herein, or otherwise substantially violating any provision of this CONTRACT.
- 5.4.5** Upon termination of the CONTRACT with A-E, the COUNTY may begin negotiations with a third-party A-E to provide goods and/or PROJECTS/SERVICES as specified in this CONTRACT.
- 5.4.6** The right of either party to terminate this CONTRACT hereunder shall not be affected in any way by its waiver of or failure to take action with respect to any previous default.

6. MISCELLANEOUS**6.1 Laws to be Observed**

6.1.1 A-E is assumed to be familiar with and, at all times, shall observe and comply with all federal, state and local laws, ordinances and regulations in any manner affecting the conduct of the PROJECTS/SERVICES.

6.2 Award of Construction Contract and Other Future Contracts

6.2.1 A-E is hereby informed that provisions of the Public Contract Code, the Political Reform Act of 1974, other statutes, regulations, and COUNTY policy prohibit, as an impermissible conflict of interest, the award of a contract for the construction of the project(s) on which A-E performed architectural-engineering services under this A-E CONTRACT. A-E is hereby informed that these statutes and regulations could also prohibit the award to A-E of design or other contracts on future phases related to tasks performed by A-E under this CONTRACT. This prohibition applies also to a subcontractor of or parent company of the firm that performed architectural-engineering tasks under this CONTRACT.

6.3 Amendments

6.3.1 No alteration or variation of the terms of this CONTRACT shall be valid unless made in writing and signed by the parties; no oral understanding or agreement not incorporated herein shall be binding on either of the parties; and no exceptions, alternatives, substitutes or revisions are valid or binding on COUNTY unless authorized by COUNTY in writing.

6.4 Successors and Assigns

6.4.1 The terms and provisions of this CONTRACT shall be binding upon and inure to the benefit of the parties hereto and their successors and assigns.

6.5 Entirety

6.5.1 This CONTRACT contains the entire agreement between the parties with respect to the matters provided for herein.

6.6 Severability

6.6.1 If any part of this CONTRACT is held, determined, or adjudicated to be illegal, void, or unenforceable by a court of competent jurisdiction, the remainder of this CONTRACT shall be given effect to the fullest extent reasonably possible.

6.7 Binding Obligation

6.7.1 The PARTIES to this CONTRACT represent and warrant that this CONTRACT has been duly authorized and executed and constitutes the legally binding obligation of their respective organization or entity enforceable in accordance with its terms.

6.8 Governing Law and Venue

6.8.1 This CONTRACT has been negotiated and executed in the State of California and shall be governed by and construed under the laws of the State of California. In the event of any legal action to enforce or interpret this CONTRACT, the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California, and the PARTIES hereto agree to and do hereby submit to the jurisdiction of such court, notwithstanding Code of Civil Procedure, Section 394.

6.8.2 The PARTIES specifically agree that by soliciting and entering into and performing PROJECTS/SERVICES under this CONTRACT, the A-E shall be deemed to constitute doing business within Orange County from the time of solicitation of work, through the period when all PROJECTS/SERVICES under this CONTRACT is completed, and continuing until the expiration of any applicable limitations period.

6.9 Child Support Enforcement Requirements

6.9.1 All Contractors are required to comply with the child support enforcement requirements of the County of Orange. Failure of the Contractor to comply with all federal, state, and local reporting requirements for child support enforcement or to comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment shall constitute a material breach of the Contract. In order to comply with the child support enforcement requirements of the County of Orange, all bidders/proposers must furnish to the Contract administrator, the Purchasing Agent, or the agency/department Deputy Purchasing Agent:

- A. In the case of an individual Contractor, his/her name, date of birth, Social Security number, and residence address;
- B. In the case of a Contractor doing business in a form other than as an individual, the name, date of birth, Social Security number, and residence address of each individual who owns an interest of 10 percent or more in the Contracting entity;
- C. A certification that the Contractor has fully complied with all applicable federal and state reporting requirements regarding its employees; and
- D. A certification that the Contractor has fully complied with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment and will continue to so comply.

Failure to cure such breach within 60 calendar days of notice from the COUNTY shall constitute grounds for termination of the Contract.

6.9.2 It is expressly understood that this data will be transmitted by COUNTY to governmental agencies charged with the establishment and enforcement of child support orders and for no other purposes.

6.10 Ownership of Documents

6.10.1 All data, including but not limited to letters, reports, files, plans, drawings, specifications, proposals, sketches, diagrams and calculations, prepared by A-E and/or anyone acting under the supervision of A-E pursuant to this CONTRACT, shall become the property of COUNTY upon preparation by A-E and may be used by the COUNTY

as it may require without additional cost to the COUNTY.

6.10.2 COUNTY shall not be limited in any way to its use thereof at any time, including the release of this data to third parties. A-E shall be held harmless for release of such data as may be prepared or created under this CONTRACT to any third party. If A-E and/or anyone acting under the supervision of A-E should later desire to use any of the data prepared in connection with this CONTRACT, A-E shall first obtain the written approval of COUNTY.

6.11 Confidentiality

6.11.1 All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, and all written or other information submitted to A-E in connection with the performance of this CONTRACT shall be held confidential by A-E and/or anyone acting under the supervision of A-E and shall not, without the prior written consent of COUNTY, be used for any purposes other than the performance of the PROJECTS/SERVICES described in Attachment A, nor be disclosed to any person, partnership, company, corporation or agency, not connected with the performance of the PROJECTS/SERVICES.

6.11.2 Nothing furnished to A-E which is generally known among counties in Southern California shall be deemed confidential.

6.11.3 A-E and/or anyone acting under the supervision of A-E shall not use COUNTY name or insignia, photographs of the work, or any other publicity pertaining to the work in any magazine, trade paper, newspaper, or other medium without the express written consent of COUNTY.

6.12 Publication

6.12.1 No copies of sketches, schedules, written documents, computer based data, photographs, maps or graphs, including graphic art work, resulting from performance or prepared in connection with this CONTRACT, are to be released by A-E and/or anyone acting under the supervision of A-E to any person, partnership, company, corporation, or agency, without prior written approval by the COUNTY, except as necessary for the performance of the services of this CONTRACT. All press contacts, including graphic display information to be published in newspapers, magazines, etc., are to be administered only after COUNTY approval.

6.12.2 The A-E agrees that it will not issue any news releases or make any contact with the media in connection with either the award of this CONTRACT or any subsequent amendment of, or effort under this CONTRACT. A-E must first obtain review and approval of said media contact from the COUNTY through the COUNTY'S Project Manager. Any requests for interviews or information received by the media should be referred directly to the COUNTY. A-E's are not authorized to serve as a media spokespersons for COUNTY projects without first obtaining permission from the COUNTY Project Manager.

6.13 Records and Audit/Inspections

6.13.1 A-E shall keep an accurate record of time expended by A-E and/or consultants employed by A-E in the performance of this CONTRACT.

County of Orange
Tetra Tech, Inc.

6.13.2 Within ten (10) days of COUNTY's written request, A-E shall allow COUNTY or authorized State or Federal agencies or any duly authorized representative to have the right to access, examine, audit, excerpt, copy or transcribe any pertinent transaction, activity, time cards or other records relating to this CONTRACT.

6.13.3 A-E shall keep such material, including all pertinent cost accounting, financial records and proprietary data for a period of three (3) years after termination or completion of the CONTRACT or until resolution of any claim or dispute between the PARTIES, whichever is later.

6.13.4 Should A-E cease to exist as a legal entity, records pertaining to this CONTRACT shall be forwarded within a reasonable period of time not to exceed sixty (60) days to its successor in interest or surviving entity in a merger or acquisition, or, in the event of liquidation, to COUNTY.

6.14 Notices

6.14.1 Any and all notices, requests, demands and other communications contemplated, called for, permitted, or required to be given hereunder shall be in writing, except through the course of the PARTIES' project managers' routine exchange of information and cooperation during the PROJECTS/SERVICES.

6.14.2 Any written communications shall be deemed to have been duly given upon actual in-person delivery, if delivery is by direct hand, or upon delivery on the actual day of receipt, or no greater than four (4) calendar days after being mailed by U. S. certified or registered mail, return receipt requested, postage prepaid, whichever occurs first. The date of mailing shall count as the first day.

6.14.3 All communications shall be addressed to the appropriate party at the address stated herein or such other address as the parties hereto may designate by written notice from time to time in the manner aforesaid.

For A-E:

Tetra Tech, Inc.
17885 Von Karman, Suite 500
Irvine, CA 92614
Attn: Patti Sexton
Phone: 949-809-5000
E-mail: patti.sexton@tetratech.com

For COUNTY:

OC Public Works / Infrastructure Programs
300 N. Flower St.
Santa Ana, CA 92703
Attn: JoDee Goetz
Phone: 714-647-3917
E-mail: jodee.goetz@ocpw.ocgov.com

cc:

OC Public Works Procurement Services
300 N. Flower St., Suite 838
Santa Ana, CA 92703

Attn: Jennifer Saldana
Phone: 714-667-3296
E-mail: jennifer.saldana@ocpw.ocgov.com

6.15 Attorney's Fees

6.15.1 In any action or proceeding to enforce or interpret any provision of this CONTRACT, or where any provision hereof is validly asserted as a defense, each party shall bear its own attorney's fees, costs and expenses.

6.16 Interpretation

6.16.1 CONTRACT has been negotiated at arm's length and between persons sophisticated and knowledgeable in the matters dealt with in this CONTRACT.

6.16.2 In addition, each PARTY has been represented by experienced and knowledgeable independent legal counsel of their own choosing, or has knowingly declined to seek such counsel despite having the opportunity to do so.

6.16.3 Each PARTY further acknowledges that they have not been influenced to any extent whatsoever in executing this CONTRACT by any other PARTY hereto or by any person representing them, or both.

6.16.4 Accordingly, any rule of law (including California Civil Code Section 1654) or legal decision that would require interpretation of any ambiguities in this CONTRACT against the PARTY that has drafted it is not applicable and is waived.

6.16.5 The provisions of this CONTRACT shall be interpreted in a reasonable manner to affect the purpose of the PARTIES and this CONTRACT.

6.17 Headings

6.17.1 The various headings and numbers herein, the grouping of provisions of this CONTRACT into separate clauses and paragraphs, and the organization hereof are for the purpose of convenience only and shall not limit or otherwise affect the meaning hereof.

6.18 Acceptance

6.18.1 Unless otherwise agreed to in writing by COUNTY acceptance shall not be deemed complete unless in writing and until all the services have actually been received, inspected, and tested to the satisfaction of COUNTY.

6.19 Changes

6.19.1 A-E shall make no changes in the work or perform any additional work without the COUNTY'S specific written approval.

6.20 Assignment

6.20.1 The terms, covenants, and conditions contained herein shall apply to and bind the heirs, successors, executors, administrators and assigns of the parties. Furthermore, neither the performance of this CONTRACT nor any portion thereof may be assigned or sub-

contracted by A-E, by any means whatsoever including but not limited to acquisition by merger, without the express written consent of COUNTY. Any attempt by A-E to assign or sub-contract the performance or any portion thereof of this CONTRACT without the express written consent of COUNTY shall be invalid and shall constitute a breach of this CONTRACT.

6.21 Changes in Ownership

6.21.1 A-E agrees that if there is a change or transfer in ownership, including but not limited to merger by acquisition, of A-E's business prior to completion of this CONTRACT, the new owners shall be required under terms of sale or other transfer to assume A-E's duties and obligations contained in this CONTRACT and to obtain the written approval of COUNTY of such merger or acquisition, and complete the obligations and duties contained in the CONTRACT to the satisfaction of COUNTY. A-E agrees to pay, or credit toward future work, COUNTY's costs associated with processing the merger or acquisition.

6.22 Force Majeure

6.22.1 A-E shall not be assessed with damages or unsatisfactory performance penalties during any delay beyond the time named for the performance of this CONTRACT caused by any act of God, war, civil disorder, employment strike or other cause beyond its reasonable control, provided A-E gives written notice of the cause of the delay to COUNTY within thirty-six (36) hours of the start of the delay and A-E avails himself of any available remedies.

6.23 Calendar Days

6.23.1 Any reference to the word "day" or "days" herein means calendar day or calendar days, respectively, unless otherwise expressly provided.

6.24 Title to Data

6.24.1 All materials, documents, data or information obtained from the COUNTY data files or any COUNTY medium furnished to the A-E in the performance of this CONTRACT, will at all times remain the property of the COUNTY. Such data or information may not be used or copied for direct or indirect use by the A-E after completion or termination of this CONTRACT without the express written consent of the COUNTY.

6.24.2 All materials, documents, data or information, including copies furnished by COUNTY and loaned to A-E for his temporary use, must be returned to the COUNTY at the end of this CONTRACT unless otherwise specified by the DIRECTOR.

6.25 Availability of Funds

6.25.1 The obligation of COUNTY is subject to the availability of funds appropriated for this purpose, and nothing herein shall be construed as obligating the COUNTY to expend or as involving the COUNTY in any contract or other obligation for future payment of money in excess of appropriations authorized by law.

6.26 Contingency of Funding

6.26.1 A-E acknowledges that funding or portions of funding for this CONTRACT may also be contingent upon receipt of funds from, and/or appropriation of funds by, the State of California or other funding sources to COUNTY. If such funding and/or appropriations are not forthcoming, or otherwise limited, COUNTY may immediately terminate or modify this CONTRACT without penalty.

6.27 Contract Construction

6.27.1 The parties acknowledge that each party and its counsel have reviewed this CONTRACT and that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this CONTRACT or any amendment or exhibits hereto.

6.28 Conflicts of Interest

6.28.1 A-E or its employees may be subject to the provisions of the California Political Reform Act of 1974 (the "Act"), which (1) requires such persons to disclose any financial interest that may be materially affected by services provided under this CONTRACT, (2) prohibits such persons from making, or participating in making, decisions that could reasonably affect such interest; and (3) may require the filing a Statement of Economic Interest (Form 700).

6.28.2 If subject to the Act, A-E shall conform to all requirements of the Act. Failure to do so shall constitute a material breach and is grounds for immediate termination of this CONTRACT by COUNTY. Pursuant to Section 4.3 "Indemnification", A-E shall indemnify and hold harmless COUNTY for any and all claims for damages resulting from Contractor's violation of this Section.

6.29 Usage

6.29.1 No guarantee is given by the COUNTY to A-E regarding usage of this CONTRACT. The A-E agrees to supply services requested, as needed by the County of Orange, at prices listed in the CONTRACT, regardless of quantity requested.

County of Orange
Tetra Tech, Inc.

IN WITNESS WHEREOF, the PARTIES hereto have executed this CONTRACT on the dates opposite their respective signatures:

TETRA TECH, INC.,
a Delaware Corporation,

Date: 11/2/2017

By: Richard A. Lemmon
Signature DocuSigned by:
Richard A. Lemmon
6D1F0BACC6E44D5...
Richard A. Lemmon Senior Vice President
Print Name & Title

(If a corporation, the document must be signed by two corporate officers. The 1st must be either Chairman of the Board, President or any Vice President.)

Date: 11/2/2017

By: Janis B. Salin
Signature DocuSigned by:
Janis B. Salin
2B6BB86AA7CB472...
Janis B. Salin Secretary
Print Name & Title

(If a corporation, the 2nd signature must be either the Secretary, an Assistant Secretary, the Chief Financial Officer, or any Assistant Treasurer)

COUNTY OF ORANGE,
a political subdivision of the State of California

Date: _____

By: _____

Print Name: _____

Title: _____

APPROVED AS TO FORM
Office of the County Counsel
Orange County, California

By: MG
Deputy

ATTACHMENT A
SCOPE OF SERVICES**I. Overview**

OC Public Works, on behalf of the various County of Orange Departments (COUNTY) and DISTRICT, is establishing this on-call Contract for various Architect-Engineer (A-E), and related professional A-E services, on an as-needed basis, for the Discipline(s) listed below. These services may be utilized by DISTRICT and/or any County department. A-E shall provide all labor, materials, tools and equipment required for the services under the Discipline(s).

II. Scope of Work**1. FLOOD CONTROL SERVICES****FLOOD CONTROL ENGINEERING SERVICES*****Minimum Qualifications/Requirements:***

State of California Licensed Civil Engineers (CE), Licensed Traffic Engineer (TE). All work to be performed must be accomplished under the direct supervision and responsible charge of a Professional Civil Engineer, Mechanical Engineer, and/or Electrical Engineer registered by the Department of Consumer Affairs in the State of California unless otherwise allowed for by DIRECTOR. The Professional Engineer shall affix his/her stamp and sign all to the engineering plans, analyses, studies, reports, and any other engineering documents prepared.

Requirements, Standards and Guidelines

All manuals used shall be the most up-to-date and current edition. Any deviation from the below listed materials shall be approved by DIRECTOR prior to start of work and/or notice to proceed.

- Orange County Flood Control District Design Manual
- US Army Corps of Engineers Manual EM 1110-2-2104
- AASHTO Design Manuals current edition, including all addenda thereto
- OC Public Works (formerly RDMD, PFRD, or EMA) Standard Plans, latest Edition
- Orange County Hydrology Manual, including all Addenda thereto,
- County of Orange Local Drainage Manual
- Flood Insurance Study Guidelines and Specifications for Study Contractors, FEMA 37
- OC Public Works/Right of Way Engineering Section and/or OC Public Works/Real Estate Services Section
- Standards and practices of the OC Public Works/Utilities Unit
- Orange County Highway Design Manual
- CalTrans' Highway Design Manual
- Highway Capacity Manual

Description of Services (activities shall include, but not limited to):

OC Public Works on behalf of the County of Orange (COUNTY) and the Orange County Flood Control District (DISTRICT) requires supplemental engineering services to meet workload demands and project scheduling commitments. In order to supplement COUNTY and/or DISTRICT'S existing resources, A-E shall provide to COUNTY and/or DISTRICT "on-call" Architect- Engineer (A-E) services on an "as-needed" basis. Consultants may provide preliminary and final design services for a variety of County projects such as, roads, bridges (vehicular and pedestrian), bikeways and trails, traffic engineering, drainage facilities; flood channels; levees and other civil engineering related projects.

It is anticipated that there will be several work products, "Project Specific Scopes of Work", resulting from an agreement. The requested services consist, in general, of preparation, of Type Selected Reports, Plans, Special Provisions and Engineer's Estimate (PS&E). Certain related support services as described herein may also be requested. This General Scope of Work exemplifies the types of work that may be required.

A-E tasks may include, but may not be limited to, the following:

1) DESIGN SERVICES

Supplemental design services may be required for various COUNTY and or DISTRICT projects. A-E shall conform to the requirements, criteria, standards, and guidelines listed above.

A-E shall submit a CD or DVD disk containing all plans and profile sheets which shall be compatible with the CAD drafting system used by COUNTY and/or DISTRICT and shall be suitable for inclusion in engineering reports.

A-E may be required to produce exhibits and appendices that may include presentation drawings of various sizes for public presentations and in-house design seminars. Plan and profile sheet exhibits for original conditions as well as all alternatives reflecting hydraulic grade lines for existing capacity and 100-year storm discharges. Construction plans and/or detail exhibits sufficient to conduct design seminars and public meetings. All plan, profile, and detail sheets prepared as construction drawings shall conform to the COUNTY CADD guidelines and standards, and shall be computer plotted on mylar or ink drawn on standard 22" X 34" mylar sheets. A-E will reproduce construction plans at 1/2 size (11"x17") for complete legibility at the reduced size. A-E may be required to prepare plans on mylar with topography screened on the plan view. A title sheet with an index reference may also be required.

2) PLANNING/PLAN CHECKING SERVICES

Planning support services may include, preparation of a comprehensive report, such as: a project report, storm report, technical study, or preparation of plans, specifications and estimates (PS&E).

A-E may be required to review and provide written professional comments on developer or encroachment permittee submitted plans and specifications for the following:

- a. Check for adequacy of the submittal and compliance with COUNTY and/or DISTRICT standards and criteria, regulatory permit conditions, mitigation

measures and applicable federal, state or County requirements, “the standard of ordinary care” and technical correctness.

- b. Safety issues: Submittals may need to be reviewed for adherence to COUNTY and/or DISTRICT standards of design criteria and in cases where strict adherence to the standards of design would be impractical or unreasonable, identify deviations and make sure they are in accordance with good engineering practice and the public health and safety.
- c. Maintenance issues: Maintenance being an ongoing COUNTY and/or DISTRICT cost, submittals may need to be reviewed for maintenance cost effectiveness.
- d. Drainage: Local drainage may need to be reviewed relative to maintenance and safety. Hydraulics and Hydrology may also need to be reviewed and checked.

A-E may be required to review submittals to see if all required parts constituting a complete bid package are provided. Typical items to be reviewed include, but are not limited to, the following:

- a. Detail sheets: Review plans for adequacy, clarity and completeness; particular attention should be paid to details known to cause hydraulic, structural, serviceability or maintenance problems.
- b. Calculations: Review design criteria, method of analysis, use of COUNTY and/or DISTRICT standards.
- c. Review Structural Design: Review design criteria, method of analysis, use of COUNTY and/or DISTRICT standards.
- d. Review materials specified for conformance to current practices and appropriateness use.
- e. Review Geotechnical submittals for conformance with design.
- f. Review hydraulic and hydrologic computations for conformance with County and/or District standards

3) CORROSION PROTECTION

A-E may be required to perform corrosion protection evaluations, studies, and investigations; Cathodic Protection (CP) system and protective coatings design; field inspection of CP system construction and/or repair; and shop and field inspection of corrosion resistant coating applications including inspection of structural and spot welds. A-E may also be expected to perform review of contractor submittals, shop drawings, substitutions, and proposed field changes.

4) RIGHTS OF WAY SERVICES

A-E may be required to prepare, acquire, and/or review legal descriptions, record of survey, easement deeds, Title Insurance, and other related right-of-way documents pertinent to the project. A-E’s services may also be required to prepare, acquire, and/or review documents necessary to acquire rights of way necessary for the implementation of COUNTY and/or DISTRICT projects. If COUNTY and/or

DISTRICT determines that such right of way and real estate services are required, A-E may perform such work or employ special consultants to accomplish the work. All right of way and real estate services obtained from outside sources shall conform to the standards and practices.

5) UTILITY RELOCATION

A-E may be required to perform engineering services related to: determination of utility disposition, ownership, and superior rights for all utilities within project area; determination of utility location and depth including conducting pot-holing operations if necessary; and design and/or coordination of utility relocations within the project area. The task may include, but not be limited to research, pot-holing, surveying, design, cost estimates, permits, agreements, PS&E (portion related to the relocations), coordination with utility companies and other agencies.

If COUNTY and/or DISTRICT determines that such utility services are required, A-E may perform such work or employ special consultants to accomplish the work. All utility services obtained from outside sources shall conform to the standards.

6) VALUE ENGINEERING

Provide a systematic, extensive review of all design and construction elements of the project with the objective of identifying cost effective product/system substitution solutions and/or streamlined sequences of construction solutions. Provide innovative cost savings that do not compromise design intent, performance or long term maintenance.

A. FLOOD PROGRAM SUPPORT

Minimum Qualifications/Requirements:

Licensed Professional Civil Engineer (CE) in the State of California. A-E shall conform to the requirements, standards, and guidelines of the latest edition of the following: Orange County Hydrology Manual and its related addendum, the Orange County Local Drainage Manual, the Orange County Flood Control Design Manual, and all references and standards referred to therein.

1) HYDROLOGY

Performing hydrologic studies in accordance with the 1986 Orange County Hydrology Manual (OCHM) and its Addendum, or other criteria as specified by the COUNTY and/or DISTRICT. These tasks may include performing hydrography studies and reviewing existing hydrologic data/studies provided by COUNTY and/or DISTRICT. The work shall be performed utilizing AES analysis, HEC-1 software, WMS software, manual hand computations or similar. A-E shall perform such hydrology related work to produce a final hydrology report(s), which includes a summary of hydrologic information, hydrology maps and exhibits, a tabulation of the drainage areas, return frequencies and discharges for the watershed and other related information. The reports shall include a CD/DVD/flash drive or other appropriate digital media containing the entire report(s) in PDF, maps in GIS format, hydrology input and output files and other supporting calculations in digital format. All reports will need to be submitted for review and approval by the Director of OC Public Works or designee.

Reviewing hydrology studies submitted to COUNTY and/or DISTRICT for approval as to conformity with the OCHM and its addendum or other criteria

specified by the COUNTY and/or DISTRICT. A-E's work shall include reviewing the data sources used in the submitted study for accuracy and appropriateness, and verifying the accuracy of the aerial mapping, topographic mapping and the hydrology map submitted. A-E shall perform field/site investigations as needed in order to assess the accuracy and validity of the watershed conditions and estimated hydrologic parameters used in the hydrology models in the submitted study. A-E shall review the submitted hydrology models including supporting calculations and analyses for conformity with the OCHM, its addendum and/or other applicable COUNTY and/or DISTRICT criteria. A-E shall prepare a comment letter for COUNTY and/or DISTRICT review and approval, stating the findings with recommendations for correcting problems or inaccuracies.

2) HYDRAULIC ENGINEERING

Computer programs used for hydraulic modeling, such as HEC-RAS (HEC-2), or WSPG shall be compatible with COUNTY and/or DISTRICT's computer equipment, and A-E shall receive DIRECTOR approval of any program before it is used.

A-E as required, will perform preliminary and/or design level hydraulic analyses of flood control facilities and local drainage systems using, but not limited to, HEC-RAS (HEC-2), WSPG, FLO-2D, RiverFLO-2D, Storm Program, Microsoft Excel, and manual "hand" calculations. The analysis requested may include, but shall not be limited to, existing deficiency and capacity studies, development of design water surface elevations, development of preliminary and ultimate facility design alternatives, sedimentation engineering, construction phasing schedules, and preparation of PS&E. Hydraulic controls for tributary channels and COUNTY and/or DISTRICT committed water surface elevations (if not requested as part of A-E's duties) will be provided where available. Available reports and preliminary engineering studies performed by COUNTY and/or DISTRICT will be provided to A-E.

Geotechnical, survey, environmental, utility, and record drawing information (if not part of A-E's requested services and if available) may be provided by COUNTY and/or DISTRICT.

The work to be performed by A-E may include, but is not limited to the following:

1. Hydraulic analysis and generation of hydraulic gradelines (HGL) for existing and future condition design alternatives. Preparation of exhibits indicating the HGL on plans, and profile sheets for existing and future condition alternatives to be presented in report(s).
2. Hydraulic analyses for conveyance of design discharges through existing bridge and culvert structures, including: street, freeway and railroad crossings.
3. Sedimentation analyses for natural streams or earthen channels, including, but not limited to, the determination of sediment delivery/load, bed and bank scour (general and local), erosion and deposition (degradation/aggradation), channel/stream stability, horizontal migration and bed and bank erosion protection requirements. Sedimentation analyses may require utilizing software such as FLUVIAL-12, HEC-6 or other

software widely accepted and recommended by the professional engineering community. Sedimentation analyses may also include historical research and development and calibration of a historical model in order to determine future stream behavior.

4. Identification of local drainage facilities and catch basins, including a listing of major inlets and committed water surface elevations.
5. Determination of capacities of local drainage facilities.
6. Identification of alternatives, including channel alignment adjustments and right-of-way requirements.
7. Preparation of material quantity and cost estimates for each alternative that is studied with unit prices identified. Comparisons between the costs of alternatives should be included where appropriate.
8. A general discussion of soil conditions and any unique findings. Of particular interest are: ground water, perched water tables and the foundation conditions for the facilities.
9. Identification of unique maintenance problems associated with the alternatives and determination of appropriate maintenance costs based on the project report or A-E's independent findings.
10. Recommendation of a preferred alternative for ultimate improvements, and identification of a possible and logical sequence of implementation (aka: construction phasing).
11. Identification, analysis, recommendation, and/or design of existing and/or proposed retarding, retention, water quality, and/or sediment basin alternatives.
12. A determination of existing condition and ultimate condition floodplains in a manner meeting the approval of COUNTY and/or DISTRICT and the Federal Emergency Management Agency (FEMA).
13. Design, analysis, and/or preparation of low impact development (LID) site alternatives.

3) LOMR/CLOMR

A-E may be required to prepare a floodplain study for any type of FEMA map change such as a Letter of Map Revision (LOMR) or Conditional Letter of Map Revision (CLOMR) for an OCFCD facility. Engineering services may require completion of a levee certification and evaluation as part of the map change process as well as all elements for the FEMA LOMR package including completion of MT-2 form and all supporting documentation based on latest FEMA requirements.

4) LEVEE RECERTIFICATION AND ACCREDITATION

A-E may be required to recertify levees that were previously certified, in order to prevent re-mapping of related floodplains on FEMA FIRMS. Work would be expected to include but is not limited to all interior drainage analysis and

geotechnical analyses. Following successful recertification, AE would be required to obtain accreditation of levees from FEMA.

5) DAM INUNDATION STUDIES

The selected A-E shall furnish all expertise, labor and resources for completion of the studies that may include field investigation and survey of existing facility features including cross sections and profiles; inundation zone data collection; dam break analysis including hydrology and hydraulics; breach analysis; mapping and inundation limits including modeling not limited to routing and rating curves; generation of maps; hazard classification, incremental damage analysis, etc.

**ATTACHMENT B
COST/COMPENSATION**

- I. COMPENSATION:** This is a specified rates of compensation usage CONTRACT between COUNTY and A-E for On-Call Flood Control Services as set forth in Attachment A, “Scope of Work”.

A-E agrees to accept the specified compensation as set forth in this CONTRACT as full remuneration for performing all services and furnishing all staffing, labor, vehicles, equipment, tools, materials, overhead, travel, etc. required, for any reasonably unforeseen difficulties which may arise or be encountered in the execution of the services until acceptance, for risks connected with the services, and for performance by A-E of all its duties and obligations hereunder. A-E shall only be compensated as set forth herein below for work performed in accordance with the Scope of Work. **COUNTY shall have no obligation to pay any sum in excess of the Total CONTRACT Amount specified herein below unless authorized by amendment in accordance with Paragraphs 6.3 and 6.19 of the COUNTY CONTRACT Terms and Conditions.**

- II. PRICING:** Payment shall be made in accordance with the provisions of this CONTRACT. Partial progress payments may be allowed at the discretion of the COUNTY Project Manager. Payment shall be as follows:

A. Classification Rates:

TETRA TECH, INC.	
Classification Titles	Hourly Rate
Program Manager	\$ 285.00
Principal Engineer	\$ 250.00
Sr Project Manager	\$ 230.00
Project Manager	\$ 200.00
Senior Engineer	\$ 195.00
Project Engineer 2	\$ 170.00
Project Engineer 1	\$ 155.00
Engineer 3	\$ 146.00
Engineer 2	\$ 136.00
Engineer 1	\$ 126.00
Engineering Technician	\$ 80.00
Sr Planner/Scientist	\$ 155.00
Planner/Scientist	\$ 125.00
CAD/GIS Director	\$ 150.00
Sr CAD/GIS Designer 2	\$ 140.00
Sr CAD/GIS Designer 1	\$ 125.00
CAD/GIS Designer	\$ 105.00
CAD/GIS Technician 3	\$ 90.00
CAD/GIS Technician 2	\$ 75.00
CAD/GIS Technician 1	\$ 65.00
Graphic Artist	\$ 125.00
Sr Technical Writer	\$ 125.00
Technical Writer 2	\$ 100.00
Sr Project Administrator	\$ 110.00
Technical Writer 1	\$ 100.00

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Project Administrator	\$ 95.00
Project Assistant 2	\$ 75.00
Project Assistant 1	\$ 67.00
Sr Project Analyst	\$ 155.00
Project Analyst 2	\$ 114.00
Project Analyst 1	\$ 90.00

*Subcontractor - Corrpro	
<u>Classification Titles</u>	<u>Hourly Rate</u>
Project Manager	\$ 150.00
Senior Corrosion Engineer	\$ 145.00
Corrosion Engineer	\$ 125.00
Corrosion Technician	\$ 105.00
AutoCAD / Drafting	\$ 75.00
Office Admin	\$ 55.00

*Subcontractor – Lambert Engineering	
<u>Classification Titles</u>	<u>Hourly Rate</u>
Civil / Structural Engr, Certified Value Specialist	\$ 150.00

*COUNTY will not pay A-E more than the listed amount for Sub-Contractor work, regardless of any agreement between the A-E and their Sub-Contractor. Sub-Contractor rates are listed for convenience only.

B. Total CONTRACT Amount Shall Not Exceed: \$2,500,000

III. PRICE INCREASES/DECREASES: No price increases will be permitted during the term of this CONTRACT. All price decreases will automatically be extended to COUNTY.

IV. FIRM DISCOUNT AND PRICING STRUCTURE: A-E guarantees that prices quoted are equal to or less than prices quoted to any other local, State or Federal government entity for services of equal or lesser scope. A-E agrees that no price increases shall be passed along to COUNTY during the term of this CONTRACT not otherwise specified and provided for within this CONTRACT.

V. A-E’S EXPENSE: A-E will be responsible for all costs related to photo copying, telephone communications and fax communications while on COUNTY sites during the performance of work and services under this CONTRACT.

VI. REIMBURSABLE ITEMS: Reimbursable items are non-salary items that are not included in the Scope of Work but necessary for completion of the work and must be authorized in advance by the COUNTY Project Manager. A-E may be entitled to reimbursement for the following, upon prior approval by COUNTY:

- 1) The actual costs of special equipment to be rented, leased or purchased by A-E for use exclusively in the performance of the Scope of Services, to the extent such rental, lease, purchase and costs have been approved in writing by the COUNTY Project Manager.

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- 1) Printing expenses paid to outside contractors; to the extent such contractors and reproduction rates have been approved by the COUNTY Project Manager.
- 2) Other actual costs and/or payments specifically approved and authorized in writing by the COUNTY Project Manager and actually incurred by A-E in performance of this Contract.
- 3) Travel costs shall only be reimbursed if approved in advance in writing by COUNTY Project Manager and are subject to the following restrictions:
 - a) Reimbursement of mileage for the business use of a personal vehicle during the conduct of business within the Scope of Services of this CONTRACT shall be based on the Internal Revenue Service Standard Mileage Rate in effect at the time. Mileage between the A-E's "Home Based" office location and COUNTY location, as well as mileage within COUNTY property will not be reimbursed.
 - b) Cost of "Home Based" Xerox copies, faxes, and other supplies and materials associated with them will not be reimbursed.
 - c) Cost of cellular phones, cell phone usage plans and usage minutes, and other mobile communication devices will not be reimbursed.
 - d) All reimbursable expenses must be itemized on A-E invoice(s) and documented with receipts. Receipts for reimbursable expenses must be submitted with all A-E invoices. Invoices for reimbursable expenses without back-up receipts will not be paid. A-E is responsible for submitting reimbursable invoices in a format that is acceptable to the COUNTY. Reimbursable items shall be charged at cost. Any third-party or subcontractor services shall also be charged at cost; no mark-ups will be allowed.

VII. PAYMENT TERMS: Invoices are to be submitted in monthly arrears, after services have been completed, to the address specified below. Payment will be net thirty (30) days after receipt of an invoice in a format acceptable to the COUNTY, as applicable. Invoices shall be verified and approved by COUNTY and subject to routine processing requirements. The responsibility for providing an acceptable invoice to COUNTY for payment rests with A-E. Incomplete or incorrect invoices are not acceptable and will be returned to the A-E for correction.

Billing shall cover services and/or goods not previously invoiced. The A-E shall reimburse the COUNTY for any monies paid to the A-E for goods or services not provided or when goods or services do not meet the CONTRACT requirements.

Payments made by COUNTY shall not preclude the right of COUNTY from thereafter disputing any items or services involved or billed under this CONTRACT and shall not be construed as acceptance of any part of the goods or services.

VIII. INVOICING INSTRUCTIONS: The A-E will provide an invoice on the A-E's letterhead. Each invoice will have a unique number and will include the following information:

- A. A-E's name and address
- B. A-E's remittance address, if different from (A), above
- C. Name of COUNTY agency/department
- D. Delivery/service address
- E. CONTRACT number
- F. Service Date
- G. Description of Services
- H. Total
- I. Taxpayer ID number

Invoices and support documentation are to be forwarded to:

TBA – Per Contract Task Order

A-E has the option of receiving payment directly to their bank account via an Electronic Fund Transfer (EFT) process in lieu of a check payment. Payment made via EFT will also receive Electronic Remittance Advice with the payment details via email. An email address will need to be provided to the COUNTY via an EFT Authorization Form. To request a form, please contact the DPA.

ATTACHMENT C
STAFFING PLAN1. A-E KEY PERSONNEL

Name	Classification/Designation	Years of Experience	Licenses/Certifications (include license number)
Patti Sexton, PE, CFM	Program Manager	26	Professional Engineer, Civil: CA, 58643; Certified Floodplain Manager (CFM) US-09-04550
Ike Pace, PE, CCP	Program Manager	21	Professional Engineer, Civil: CA; Certified Cost Professional, AACE International 64484
Aric Torreyson, PE	Senior Project Manager	17	Professional Engineer, Civil: CA, 66068
Yen Hsu Chen, PE	Principal Engineer	39	Professional Engineer, Civil: CA, 37763
Chung Cheng Yen, PhD, PE	Senior Engineer	32	Professional Engineer, Civil: CA, 49913
Jung Suh, PE	Project Engineer 2	18	Professional Engineer, Civil: CA, 62252
Sarvjit Singh	Project Manager (Corrpro)	18	NACE CP Specialist#6125
Richard Lambert	Certified Value Specialist (Lambert Engineering)	42	SC PE #8745, NC PE #8995, Certified Value Specialist 20050703

A-E understands that the personnel represented as assigned to the CONTRACT must remain working on the CONTRACT throughout the duration of the CONTRACT unless otherwise requested or approved by the COUNTY. Substitution or addition of A-E's key personnel in any given category or classification shall be allowed only with prior written approval of the COUNTY's Project Manager. **Note: The written approval of substituted A-E Key Personnel is for departmental use only and shall not be used for auditing purposes outside OC Public Works or other County department.**

A-E may reserve the right to involve other A-E personnel, as their services are required. The specific individuals will be assigned based on the need and timing of the service/classification required. Assignment of additional key personnel shall be subject to COUNTY Project Manager written approval. **Note: The written approval of additional A-E Key Personnel is for departmental use only and shall not be used for auditing purposes outside OC Public Works or other County Department.** COUNTY reserves the right to have any A-E personnel removed from providing

services to COUNTY under this CONTRACT. COUNTY is not required to provide any reason for the request for removal of any A-E personnel.

2. SUBCONTRACTOR(S) (IF APPLICABLE)

Listed below are subcontractor(s) anticipated by A-E to perform services specified in Attachment A. Substitution or addition of A-E's subcontractors in any given project function shall be allowed only with prior written approval of the COUNTY Project Manager.

Company Name & Address	Contact Name and Telephone Number	Project Function
Corrpro 10260 Matern Pl Santa Fe Springs, CA 90670	Gary Graham, PE (562) 447-2723	Corrosion Protection
Lambert Engineering Company 820 Creekside Dr. Mt. Pleasant, SC 29464	Rick Lambert, PE, CVS (843) 352-4654	Value Engineering