

PROFESSIONAL SERVICES AGREEMENT
[On-Call Traffic Engineering Services]

THIS PROFESSIONAL SERVICES AGREEMENT (the "Agreement") is made at Orange, California, on this ____ day of _____, 2025 (the "Effective Date") by and between the CITY OF ORANGE, a municipal corporation ("City"), and GENERAL TECHNOLOGIES AND SOLUTIONS (GTS) INC., a California corporation ("Contractor"), who agree as follows:

1. Services. Subject to the terms and conditions set forth in this Agreement, Contractor shall provide general on-call traffic engineering services to the reasonable satisfaction of City the services set forth in Exhibit "A," which is attached hereto and incorporated herein by reference. As a material inducement to City to enter into this Agreement, Contractor represents and warrants that it has thoroughly investigated and considered the scope of services and fully understands the difficulties and restrictions in performing the work. The services which are the subject of this Agreement are not in the usual course of City's business and City relies on Contractor's representation that it is independently engaged in the business of providing such services and is experienced in performing the work. Contractor shall perform all services in a manner reasonably satisfactory to City and in a manner in conformance with the standards of quality normally observed by an entity providing such services to a municipal agency. All services provided shall conform to all federal, state and local laws, rules and regulations and to the best professional standards and practices. The terms and conditions set forth in this Agreement shall control over any terms and conditions in Exhibit "A" to the contrary.

Larry Tay, City Traffic Engineer ("City's Project Manager"), shall be the person to whom Contractor will report for the performance of services hereunder. It is understood that Contractor's performance hereunder shall be under the supervision of City's Project Manager (or his/her designee), that Contractor shall coordinate its services hereunder with City's Project Manager to the extent required by City's Project Manager, and that all performances required hereunder by Contractor shall be performed to the satisfaction of City's Project Manager and the City Manager.

2. Compensation and Fees.

a. Contractor's total compensation for all services performed under this Agreement, shall not exceed ONE HUNDRED THOUSAND DOLLARS and 00/100 (\$100,000.00) without the prior written authorization of City.

b. The above compensation shall include all costs, including, but not limited to, all clerical, administrative, overhead, insurance, reproduction, telephone, travel, auto rental, subsistence and all related expenses.

3. Payment.

a. As scheduled services are completed, Contractor shall submit to City an invoice for the services completed, authorized expenses and authorized extra work actually performed or incurred.

b. All such invoices shall state the basis for the amount invoiced, including services completed, the number of hours spent and any extra work performed.

c. City will pay Contractor the amount invoiced within thirty (30) days of receipt of all deliverables.

d. Payment shall constitute payment in full for all services, authorized costs and authorized extra work covered by that invoice.

4. **Change Orders.** No payment for extra services caused by a change in the scope or complexity of work, or for any other reason, shall be made unless and until such extra services and a price therefor have been previously authorized in writing and approved by City as an amendment to this Agreement. City's Project Manager is authorized to approve a reduction in the services to be performed and compensation therefor. All amendments shall set forth the changes of work, extension of time, and/or adjustment of the compensation to be paid by City to Contractor and shall be signed by the City's Project Manager, City Manager or City Council, as applicable.

5. **Licenses.** Contractor represents that it and any subcontractors it may engage, possess any and all licenses which are required under state or federal law to perform the work contemplated by this Agreement and that Contractor and its subcontractors shall maintain all appropriate licenses, including a City of Orange business license, at its cost, during the performance of this Agreement.

6. **Independent Contractor.** At all times during the term of this Agreement, Contractor shall be an independent contractor and not an employee of City. City shall have the right to control Contractor only insofar as the result of Contractor's services rendered pursuant to this Agreement. City shall not have the right to control the means by which Contractor accomplishes services rendered pursuant to this Agreement. Contractor shall, at its sole cost and expense, furnish all facilities, materials and equipment which may be required for furnishing services pursuant to this Agreement. Contractor shall be solely responsible for, and shall indemnify, defend and save City harmless from all matters relating to the payment of its subcontractors, agents and employees, including compliance with social security withholding and all other wages, salaries, benefits, taxes, exactions, and regulations of any nature whatsoever. Contractor acknowledges that it and any subcontractors, agents or employees employed by Contractor shall not, under any circumstances, be considered employees of City, and that they shall not be entitled to any of the benefits or rights afforded employees of City, including, but not limited to, sick leave, vacation leave, holiday pay, Public Employees Retirement System benefits, or health, life, dental, long-term disability or workers' compensation insurance benefits.

7. **Contractor Not Agent.** Except as City may specify in writing, Contractor shall have no authority, express or implied, to act on behalf of City in any capacity whatsoever as an agent. Contractor shall have no authority, express or implied, to bind City to any obligation whatsoever.

8. **Designated Persons.** Only those qualified persons authorized by City's Project Manager, or as designated in Exhibit "A," shall perform work provided for under this Agreement.

It is understood by the parties that clerical and other nonprofessional work may be performed by persons other than those designated.

9. Assignment or Subcontracting. No assignment or subcontracting by Contractor of any part of this Agreement or of funds to be received under this Agreement shall be of any force or effect unless the assignment has the prior written approval of City. City may terminate this Agreement rather than accept any proposed assignment or subcontracting. Such assignment or subcontracting may be approved by the City Manager or his/her designee.

10. Time of Completion. Except as otherwise specified in Exhibit "A," Contractor shall commence the work provided for in this Agreement within five (5) days of the Effective Date of this Agreement and diligently prosecute completion of the work in accordance with the time period set forth in Exhibit "A" hereto or as otherwise agreed to by and between the representatives of the parties.

11. Time Is of the Essence. Time is of the essence in this Agreement. Contractor shall do all things necessary and incidental to the prosecution of Contractor's work.

12. Reserved.

13. Delays and Extensions of Time. Contractor's sole remedy for delays outside its control, other than those delays caused by City, shall be an extension of time. No matter what the cause of the delay, Contractor must document any delay and request an extension of time in writing at the time of the delay to the satisfaction of City. Any extensions granted shall be limited to the length of the delay outside Contractor's control. If Contractor believes that delays caused by City will cause it to incur additional costs, it must specify, in writing, why the delay has caused additional costs to be incurred and the exact amount of such cost at the time the delay occurs. No additional costs can be paid that exceed the not to exceed amount stated in Section 2.a, above, absent a written amendment to this Agreement.

14. Products of Contractor. The documents, studies, evaluations, assessments, reports, plans, citations, materials, manuals, technical data, logs, files, designs and other products produced or provided by Contractor for this Agreement shall become the property of City upon receipt. Contractor shall deliver all such products to City prior to payment for same. City may use, reuse or otherwise utilize such products without restriction.

15. Equal Employment Opportunity. During the performance of this Agreement, Contractor agrees as follows:

a. Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, mental or physical disability, or any other basis prohibited by applicable law. Contractor shall ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, national origin, mental or physical disability, or any other basis prohibited by applicable law. Such actions shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms

of compensation and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, a notice setting forth provisions of this non-discrimination clause.

b. Contractor shall, in all solicitations and advertisements for employees placed by, or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, mental or physical disability, or any other basis prohibited by applicable law.

c. Contractor shall cause the foregoing paragraphs (a) and (b) to be inserted in all subcontracts for any work covered by this Agreement, provided that the foregoing provisions shall not apply to subcontracts for standard commercial supplies or raw materials.

16. Conflicts of Interest. Contractor agrees that it shall not make, participate in the making, or in any way attempt to use its position as a consultant to influence any decision of City in which Contractor knows or has reason to know that Contractor, its officers, partners, or employees have a financial interest as defined in Section 87103 of the Government Code. Contractor further agrees that it shall not be eligible to work as the design/build firm for the project that is the subject of this Agreement.

17. Indemnity.

a. To the fullest extent permitted by law, Contractor agrees to indemnify, defend and hold City, its City Council and each member thereof, and the officers, officials, agents and employees of City (collectively the "Indemnitees") entirely harmless from all liability arising out of:

(1) Any and all claims under workers' compensation acts and other employee benefit acts with respect to Contractor's employees or Contractor's subcontractor's employees arising out of Contractor's work under this Agreement, including any and all claims under any law pertaining to Contractor or its employees' status as an independent contractor and any and all claims under Labor Code section 1720 related to the payment of prevailing wages for public works projects; and

(2) Any claim, loss, injury to or death of persons or damage to property caused by any act, neglect, default, or omission of Contractor, or person, firm or corporation employed by Contractor, either directly or by independent contract, including all damages due to loss or theft sustained by any person, firm or corporation including the Indemnitees, or any of them, arising out of, or in any way connected with the work or services which are the subject of this Agreement, including injury or damage either on or off City's property; but not for any loss, injury, death or damage caused by the active negligence or willful misconduct of City. Contractor, at its own expense, cost and risk, shall indemnify any and all claims, actions, suits or other proceedings that may be brought or instituted against the Indemnitees on any such claim or liability covered by this subparagraph, and shall pay or satisfy any judgment that may be rendered against the Indemnitees, or any of them, in any action, suit or other proceedings as a result of coverage under this subparagraph.

b. To the fullest extent permitted by law, and as limited by California Civil Code 2782.8, Contractor agrees to indemnify and hold Indemnitees harmless from all liability arising out of any claim, loss, injury to or death of persons or damage to property to the extent caused by its negligent professional act or omission in the performance of professional services pursuant to this Agreement.

c. Except for the Indemnitees, the indemnifications provided in this Agreement shall not be construed to extend any third party indemnification rights of any kind to any person or entity which is not a signatory to this Agreement.

d. The indemnities set forth in this section shall survive any closing, rescission, or termination of this Agreement, and shall continue to be binding and in full force and effect in perpetuity with respect to Contractor and its successors.

18. Insurance.

a. Contractor shall carry workers' compensation insurance as required by law for the protection of its employees during the progress of the work. Contractor understands that it is an independent contractor and not entitled to any workers' compensation benefits under any City program.

b. Contractor shall maintain during the life of this Agreement the following minimum amount of comprehensive general liability insurance or commercial general liability insurance: the greater of (1) One Million Dollars (\$1,000,000) per occurrence; or (2) all the insurance coverage and/or limits carried by or available to Contractor. Said insurance shall cover bodily injury, death and property damage and be written on an occurrence basis.

c. Contractor shall maintain during the life of this Agreement, the following minimum amount of automotive liability insurance: the greater of (1) a combined single limit of One Million Dollars (\$1,000,000); or (2) all the insurance coverage and/or limits carried by or available to Contractor. Said insurance shall cover bodily injury, death and property damage for all owned, non-owned and hired vehicles and be written on an occurrence basis.

d. Any insurance proceeds in excess of or broader than the minimum required coverage and/or minimum required limits which are applicable to a given loss shall be available to City. No representation is made that the minimum insurance requirements of this Agreement are sufficient to cover the obligations of Contractor under this Agreement.

e. Each policy of general liability and automotive liability shall provide that City, its officers, officials, agents, and employees are declared to be additional insureds under the terms of the policy, but only with respect to the work performed by Contractor under this Agreement. A policy endorsement to that effect shall be provided to City along with the certificate of insurance. In lieu of an endorsement, City will accept a copy of the policy(ies) which evidences that City is an additional insured as a contracting party. The minimum coverage required by Subsection 18.b and c, above, shall apply to City as an additional insured. Any umbrella liability

insurance that is provided as part of the general or automobile liability minimums set forth herein shall be maintained for the duration of the Agreement.

f. Contractor shall maintain during the life of this Agreement professional liability insurance covering errors and omissions arising out of the performance of this Agreement with a minimum limit of One Million Dollars (\$1,000,000) per claim. Contractor agrees to keep such policy in force and effect for at least five (5) years from the date of completion of this Agreement.

g. The insurance policies maintained by Contractor shall be primary insurance and no insurance held or owned by City shall be called upon to cover any loss under the policy. Contractor will determine its own needs in procurement of insurance to cover liabilities other than as stated above.

h. Before Contractor performs any work or prepares or delivers any materials, Contractor shall furnish certificates of insurance and endorsements, as required by City, evidencing the aforementioned minimum insurance coverages on forms acceptable to City, which shall provide that the insurance in force will not be canceled or allowed to lapse without at least ten (10) days' prior written notice to City.

i. Except for professional liability insurance coverage that may be required by this Agreement, all insurance maintained by Contractor shall be issued by companies admitted to conduct the pertinent line of insurance business in California and having a rating of Grade A or better and Class VII or better by the latest edition of Best Key Rating Guide. In the case of professional liability insurance coverage, such coverage shall be issued by companies either licensed or admitted to conduct business in California so long as such insurer possesses the aforementioned Best rating.

j. Contractor shall immediately notify City if any required insurance lapses or is otherwise modified and cease performance of this Agreement unless otherwise directed by City. In such a case, City may procure insurance or self-insure the risk and charge Contractor for such costs and any and all damages resulting therefrom, by way of set-off from any sums owed Contractor.

k. Contractor agrees that in the event of loss due to any of the perils for which it has agreed to provide insurance, Contractor shall look solely to its insurance for recovery. Contractor hereby grants to City, on behalf of any insurer providing insurance to either Contractor or City with respect to the services of Contractor herein, a waiver of any right to subrogation which any such insurer may acquire against City by virtue of the payment of any loss under such insurance.

l. Contractor shall include all subcontractors, if any, as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor to City for review and approval. All coverages for subcontractors shall be subject to all of the requirements stated herein.

19. Termination. City may for any reason terminate this Agreement by giving Contractor not less than five (5) days' written notice of intent to terminate. Upon receipt of such notice, Contractor shall immediately cease work, unless the notice from City provides otherwise. Upon the termination of this Agreement, City shall pay Contractor for services satisfactorily provided and all allowable reimbursements incurred to the date of termination in compliance with this Agreement, unless termination by City shall be for cause, in which event City may withhold any disputed compensation. City shall not be liable for any claim of lost profits.

20. Maintenance and Inspection of Records. In accordance with generally accepted accounting principles, Contractor and its subcontractors shall maintain reasonably full and complete books, documents, papers, accounting records, and other information (collectively, the "records") pertaining to the costs of and completion of services performed under this Agreement. City and its authorized representatives shall have access to and the right to audit and reproduce any of Contractor's records regarding the services provided under this Agreement. Contractor shall maintain all such records for a period of at least three (3) years after termination or completion of this Agreement. Contractor agrees to make available all such records for inspection or audit at its offices during normal business hours and upon three (3) days' notice from City, and copies thereof shall be furnished if requested.

21. Compliance with all Laws/Immigration Laws.

a. Contractor shall be knowledgeable of and comply with all local, state and federal laws which may apply to the performance of this Agreement.

b. If the work provided for in this Agreement constitutes a "public works," as that term is defined in Section 1720 of the California Labor Code, for which prevailing wages must be paid, to the extent Contractor's employees will perform any work that falls within any of the classifications for which the Department of Labor Relations of the State of California promulgates prevailing wage determinations, Contractor hereby agrees that it, and any subcontractor under it, shall pay not less than the specified prevailing rates of wages to all such workers. The general prevailing wage determinations for crafts can be located on the website of the Department of Industrial Relations (www.dir.ca.gov/DLSR). Additionally, to perform work under this Contract, Contractor must meet all State registration requirements and criteria, including project compliance monitoring.

c. Contractor represents and warrants that it:

(1) Has complied and shall at all times during the term of this Agreement comply, in all respects, with all immigration laws, regulations, statutes, rules, codes, and orders, including, without limitation, the Immigration Reform and Control Act of 1986 (IRCA); and

(2) Has not and will not knowingly employ any individual to perform services under this Agreement who is ineligible to work in the United States or under the terms of this Agreement; and

(3) Has properly maintained, and shall at all times during the term of this Agreement properly maintain, all related employment documentation records including, without limitation, the completion and maintenance of the Form I-9 for each of Contractor's employees; and

(4) Has responded, and shall at all times during the term of this Agreement respond, in a timely fashion to any government inspection requests relating to immigration law compliance and/or Form I-9 compliance and/or worksite enforcement by the Department of Homeland Security, the Department of Labor, or the Social Security Administration.

d. Contractor shall require all subcontractors or subconsultants to make the same representations and warranties as set forth in Subsection 21.c.

e. Contractor shall, upon request of City, provide a list of all employees working under this Agreement and shall provide, to the reasonable satisfaction of City, verification that all such employees are eligible to work in the United States. All costs associated with such verification shall be borne by Contractor. Once such request has been made, Contractor may not change employees working under this Agreement without written notice to City, accompanied by the verification required herein for such employees.

f. Contractor shall require all subcontractors or sub-consultants to make the same verification as set forth in Subsection 21.e.

g. If Contractor or subcontractor knowingly employs an employee providing work under this Agreement who is not authorized to work in the United States, and/or fails to follow federal laws to determine the status of such employee, that shall constitute a material breach of this Agreement and may be cause for immediate termination of this Agreement by City.

h. Contractor agrees to indemnify and hold City, its officers, officials, agents and employees harmless for, of and from any loss, including but not limited to fines, penalties and corrective measures City may sustain by reason of Contractor's failure to comply with said laws, rules and regulations in connection with the performance of this Agreement.

22. Governing Law and Venue. This Agreement shall be construed in accordance with and governed by the laws of the State of California and Contractor agrees to submit to the jurisdiction of California courts. Venue for any dispute arising under this Agreement shall be in Orange County, California.

23. Integration. This Agreement constitutes the entire agreement of the parties. No other agreement, oral or written, pertaining to the work to be performed under this Agreement shall be of any force or effect unless it is in writing and signed by both parties. Any work performed which is inconsistent with or in violation of the provisions of this Agreement shall not be compensated.

24. Notice. Except as otherwise provided herein, all notices required under this Agreement shall be in writing and delivered personally, by e-mail, or by first class U.S. mail, postage prepaid, to each party at the address listed below. Either party may change the notice address by notifying the other party in writing. Notices shall be deemed received upon receipt of same or within three (3) days of deposit in the U.S. Mail, whichever is earlier. Notices sent by e-mail shall be deemed received on the date of the e-mail transmission.

“CONTRACTOR”

General Technologies and Solutions (GTS) Inc.
11900 W Olympic Boulevard
Los Angeles, CA 90064
Attn.: Rawad Hani

Telephone: (213) 532-8221
E-Mail: rawad.hani@gentecsol.com

“CITY”

City of Orange
300 E. Chapman Avenue
Orange, CA 92866-1591
Attn.: Larry Tay, City Traffic Engineer

Telephone: 714-744-5525
E-Mail: ltay@cityoforange.org

25. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Signatures transmitted electronically shall have the same effect as original signatures.

[Remainder of page intentionally left blank; signatures on next page]

IN WITNESS of this Agreement, the parties have entered into this Agreement as of the year and day first above written.

“CONTRACTOR”

GENERAL TECHNOLOGIES
AND SOLUTIONS (GTS) INC.,
a California corporation

*By: Rawad Hani
Printed Name: Rawad Hani
Title: Owner

“CITY”

CITY OF ORANGE, a municipal corporation

By: _____
Daniel R. Slater, Mayor

ATTEST:

Pamela Coleman, City Clerk

APPROVED AS TO FORM:

Nathalie Adourian, City Attorney

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EXHIBIT “A”

SCOPE OF SERVICES

[Beneath this sheet.]

SECTION III

SCOPE OF WORK

RFP NO. 24-25.24

SECTION III: SCOPE OF WORK

All work shall be conducted on an as needed basis when requested in writing by the City Traffic Engineer or designated representative and according to the timeframe specified by the City. Work performed by the Consultant that has not be specifically identified and authorized by the City, will not be compensated.

The scope of work includes, but is not limited to:

- Traffic studies for capital projects
- Traffic and/or parking study review for private developments
- Traffic signal design
- Traffic control plan preparations
- Plan check for capital/development projects and traffic control plans
- Street light design and plan check
- Signing and striping plan preparation and plan check
- Traffic signal and street lighting construction inspection
- Construction management and construction engineering
- Technical support for funding and grant application
- Grant funding oversight
- Intelligent transportation systems (ITS) design
- Traffic signal timing and coordination studies
- Traffic counts and data collection
- Neighborhood traffic calming studies, warrant studies, and traffic investigations
- Special studies, civil design, and on-site support services may be requested
- General municipal traffic engineering services

The City of Orange manages 160 traffic signals, over 8,000 streetlights, over 20 miles of fiber optic network, the Traffic Management Center (TMC), radar feedback signs, pedestrian crossing and overhead flashers, and other devices to facilitate the safety of the public and efficiency of traffic. The City of Orange expects consulting firms to have thorough knowledge in traffic signal, ITS systems, street light design to perform required services. Firms are also expected to understand federal/state/local funding and policies, as well as Orange County Transportation Authority (OCTA) Comprehensive Transportation Funding Program (CTFP) requirements. The ideal firm(s) will have expertise in the areas above or may specialize in one or more subareas and will be capable to provide technical services associated with the general traffic engineering needs of the City of Orange.

All design work and improvement plan check services shall be performed by or under the responsible charge of a California License Professional Engineer (Civil, Traffic, and/or California License Land Surveyor as applicable) eligible to prepare and sign such plans. Successful firms will be required to enter into the City's standard professional services agreement (attached) and obtain an Orange business license. Any changes requested to the City's standard agreement must be noted in the response to the RFP for the City's consideration.

Each specific assignment under an on-call engineering services contract will be compensated on either lump sum or time-and-materials basis. The method of compensation will be specified in writing by the City at the time the assignment is given.

Generally, response times related to plan checks for the initial review shall be completed within **ten (10) working days**, unless otherwise directed by the City. Each subsequent plan check shall be completed within 5 working days unless otherwise directed by the City.

The scope of work will vary by project, and will be further defined in a project specific request by the City of Orange, but may generally include the following:

- **Design Plans** – Develop or assist with development of final design plans associated with traffic signals and street light systems. These plans include, but are not limited to: traffic signal plans, Intelligent Transportation Systems plans, traffic signal interconnect plans, and street light plans.
- **Program Management / Construction Management / Construction Inspection** – Services related to the City's Capital Improvement Program, which will typically include traffic signal and street light improvements, but may also include ancillary roadway rehabilitation, roadway widening, ADA access and handicap ramps, parkways, drainage and drainage structures, storm drain utilities, signage and striping, parks, and other miscellaneous facilities. A thorough understanding of the NPDES regulations and grant regulations, including Federally funded program compliance is required. Project manager and inspector must be able to coordinate with outside agencies such as adjacent cities, Caltrans, and various utility companies.
- **Transportation Analysis** – Specialized traffic studies to assess proposed projects within a short time frame. Typical studies would include travel demand or traffic forecasting of proposed roadways, street widening or intersection improvement projects. Studies will analyze diversion of traffic due to substantial long term construction projects. Analysis will incorporate pedestrian and bicycles. Additional studies could be needed to provide technical support for grant and funding applications.
- **Traffic Signal Corridor Coordination Studies** – Conduct studies that analyze the performance of traffic signal timing on street corridors. These studies shall include before and after analysis to quantify the level of improvement to the expected as a result of the project.
- **Simulation Modeling** – Provide computer simulation of corridors or road networks as needed utilizing microsimulation software. Training may also be included with these projects.
- **Traffic Counts** – Perform data collection as needed within short time frames including ADT's, 12-hour counts, intersection turning movement counts, occupancy rates, speed/delay runs, pedestrian and bike counts, parking turnover, etc.
- **Statewide Planning Efforts** – Specialized studies and analysis in support of various regional and statewide initiatives involving traffic signal improvements, timing, and coordination.
- **Research and Outreach** – Assist staff in producing reports and making presentations on transportation related topics.
- **Neighborhood Traffic Calming** – Assist staff in processing requests for traffic calming measures. This includes but is not limited to street and neighborhood evaluation, data collection, recommendations, design, and coordination/communication with residents.
- **Review for Private Developments** – Assist staff in reviewing plans and reports for private development projects. This includes but is not limited to: traffic signal plans, striping plans, street light plans, and various traffic studies. Coordination with project owners or design teams on behalf of the City may be requested.

Deliverables

The specific scope of work for each task/project will be provided in a written transmittal from a City of Orange representative along with, in most cases, a follow-up phone call and, if necessary, a meeting to discuss the specific needs of the assignment. Within five business days of receipt of transmittal, the Consultant will be expected to provide the City with a proposed level of support along with a NOT TO EXCEED cost. A fully-executed amendment to the on-call contract may be required along with an authorization to proceed prior to commencement of work.

Consultant is expected to have a close working relationship with City staff and remain very accessible throughout the contract duration. The Consultant shall act as an extension of City staff.

A member of the consulting firm will be required to attend meetings with other jurisdictions, City departments, or public outreach events if an individual project requires extra coordination.

H. Work Plan

The following sections describe typical task orders carried out as part of on-call contracts illustrating our work plan.

1. Plans, Specifications, and Estimates

GTS will prepare plans, specifications, and estimates (PS&E) to accommodate the construction requirements for traffic signals, signing and striping, traffic control plans, and other ITS design tasks.

We typically anticipate producing plans for the following:

- Street Improvement Plans – To accommodate ADA compliant curb ramps and raised median noses.
- Signing and Striping Design
- Traffic Signal Plan – To propose agreed upon traffic signal improvements and operations based on the developed recommendations.

The GTS team believes a detailed field review and as-built plan verification will provide a good base plan for a high-quality design plan and will result in higher efficiencies (less time and costs). Prior to preparing a base plan for the street improvement and traffic engineering design, GTS will obtain copies of available as-built drawings and other available database/information pertaining to the project from the City and other agencies if needed. The field review will include identifying design constraints, verifying as-built information, and observing general site conditions. We will document our findings with photos taken as part of our field review. We will review the preliminary utility information and prepare and send notifications to all utility companies known to operate within the project area. Underground and overhead utilities will be identified, and potential conflicts will be noted and resolved during final design.

Typical tasks could include:

1.1 Topographic Land Survey: The design survey will be developed at 1"=20' scale and will include the following items:

- Sufficient spot elevations and breaklines to accurately develop contours at a 1.0' interval.
- Curbs, right-of-way (and jurisdiction boundary line), flowlines, and gutters.
- Paving types.
- Roadway crown elevations and striping.

- Above ground evidence of utilities.

1.2 Street Improvement Plan: GTS will modify the existing curb ramps to comply with ADA guidelines at the intersection. GTS will utilize the topographic land survey to produce the street improvement plan. The street improvements will be limited to ADA curb ramp reconstruction. GTS will perform a detailed ADA evaluation. We will design all proposed curb ramps per the standards agreed upon with the City. The plans will clearly show limits of construction and curb ramp grades and details. The curb ramp details will be prepared at 1"=10' scale.

1.3 Signing and Striping Design: GTS will incorporate any striping and signage modifications at the project intersection on the corresponding traffic signal plan if it is part of a signal design project, or will produce separate signing and striping plans.

Striping and signage services will include items like improving existing bike lane signages, reinstalling faded striping, or other striping or signage that may be required.

1.4 Traffic Signal Plan: Utilizing the traffic signal as-built plans, survey, and field investigation data, GTS will prepare a traffic signal base plan at the intersection. The base plan is the backbone to accurately design proposed improvements. At this stage of the process, a thorough review is performed on the base plan to ensure accuracy prior to design. The base plan will include centerline, right-of-way, relevant existing street improvements, and existing traffic controls. We will prepare the base plan in accordance with City's format and standards. If the intersection has shared jurisdiction with other cities we will also work with their standards.

GTS has extensive experience in traffic signal design and will utilize that knowledge to identify potential conflicts before the project goes into construction. For example, proposed signal poles will be strategically placed in the optimum location for driver/pedestrian visibility and will adhere to ADA guidelines. We will also evaluate any current deficiencies or sub-standard equipment that should be upgraded to meet current City agreed-upon standards.

We will provide a detailed traffic signal plan per City agreed-upon format, standards, and specifications. The plan will propose approved signal phases, clearly identifying all existing, proposed, and removed traffic signal equipment to correspond with the overall design intent and shown existing and proposed improvements. The traffic signal plan will be 1"=20' scale unless directed otherwise.

1.5 Utility Verification and Coordination: GTS will request a contact list from the City of utility companies with facilities at the project intersection. We will request utility maps and compile underground and above ground utilities in a separate digital file. This file will be referenced into all relevant design plans and clearly labeled to identify utility type, size, and owner. This will allow us to identify any potential impacts and modify the design as necessary.

We will also send a notification to all utility companies within the project limits at the 70% and/or final design stage for their review to determine if there are any possible conflicts with the proposed improvements. GTS will work closely with the utility companies and other City departments to resolve conflicts prior to final design. A communication log will be preserved throughout the project and provided to the City upon request. GTS will provide coordination with electric utility companies if the design includes modification to the service pedestal and/or point of connection (POC).

1.6 Specifications and Cost Estimates: GTS will prepare the technical specifications using the City's boilerplate template or Caltrans required template and required format. We will use the City-required standards and specifications.

1.7 Pre-Construction Support: GTS will provide pre-construction support services for this project after plans have been approved by the City and other agency. We will attend pre-bid meeting and answer the questions during the construction bidding process regarding the design and specifications. If there are omissions or conflicts in the design prior to the award to contractor, GTS will provide a plan revision.

1.8 Construction Support: GTS will provide construction support services for this project during construction. These services include but are not limited to attending a pre-construction meeting, responding to questions during the construction, reviewing contractor submittals within 72 hours, responding to contractor's requests for information (RFIs) or Change Request (CR), revising design plans per CR, maintaining a log of all changes to approved plan set, reviewing and making recommendations to Contract Change Order (CCO), and providing progress reports.

1.9 As-Built Plan Preparation: After the completion of project construction, we will request the redline markings prepared by the project inspectors and/or contractors on the signed design plans for preparation of as-built plans. The as-built plans will be signed and submitted to the City for the completion of the project.

Sample Recent Relevant Projects:

- City of Carson: Provided HSIP-funded PS&E signal

design services at Figueroa St and Victoria St; also provided PS&E services for the Dominguez Channel Bike Path Design working with the City and County

- City of Santa Monica: Provided ATP-funded PS&E signal design, signing and striping, and street lighting designs as well as traffic analysis per Caltrans and City guidelines
- Orange County Fire Authority: Traffic signals in Mission Viejo and Anaheim

2. Review/Prepare Traffic Signal Timing/Coordination Plans

GTS will provide signal timing plan support to the City to address the changing traffic conditions. Our tasks typically include the following:

2.1 Field Observations and Data Review: We will review the provided signal timing parameters (yellow/red timing, lead/lag timing, offsets, pedestrian timing, etc.) for potential inconsistencies between timing sheets or other anomalies. We will also coordinate with the City to open the traffic controller cabinets and verify existing controllers. We will also observe traffic flow patterns and signal operations during each peak period along the corridor. Elements such as uneven lane distributions, queue spillbacks, cut through traffic movements, heavy truck or bus percentages, congestion associated with school activity, and friction factors affecting vehicle speed or intersection throughput will be noted. Crosswalk lengths will be measured using aerial imagery to determine appropriate pedestrian timing.

2.2 Traffic Data Collection: A 24-hour count will be used to understand demand variability by time and determine intersection and corridor peak hours. GTS will collect turning movement counts with vehicle classification at the project intersections. All turning movement counts will be classified to distinguish vehicle classification, pedestrians, and bicycles. Before travel time data may be collected if the City desires.

2.3 Modeling: Using the collected traffic counts and existing signal timing plans available to the City, GTS will develop Synchro and SimTraffic models to understand existing condition operations at each of the project intersections. An accurate understanding of operational deficiencies is crucial to develop improvements at the conceptual level. Based on the results of our field visits and safety and Synchro/SimTraffic analysis, GTS will develop a set of improvements to be tested in the Synchro model for future consideration. The following are few examples

of such improvements:

- Lead/lag phasing order based on platoon arrivals, turning movement volumes, and synch phase assignments.
- Phase splits that provide sufficient time to meet pedestrian minimums and minimize the frequency of underserving queues, except where strategically beneficial.
- Offsets that prioritize the primary direction of travel to the extent that flow directionality exists within each period of implementation.
- Re-striping or modification to intersection approach to change the lane configuration. For example, provision of a dedicated turn lane or changing a dedicated turn lane to shared movement.

Each set of proposed improvements will be vetted for feasibility and tested in Synchro to determine effectiveness in improving traffic operation. We will work with the City to select a preferred set of improvements, which will be included in the final optimized Synchro model.

2.4 Signal Timing Sheets: GTS will develop a spreadsheet of proposed signal timing parameters such as yellow times, all-red times, walk times, flashing don't walk times, minimum greens, lead/lag phasing, and sync phases for each study intersection. Additional timing parameters such as minimum bicycle timings, yellow timing for left turn, and through movements will be calculated per the CA-MUTCD. Finally, based on coordination factors, field observations, scenario testing with Synchro, and our signal timing experience, we will propose signal timing groups and cycle lengths for each of the synchronization periods.

2.5 Optimized Synchro Model & Implementation Support: Based on the findings of the above tasks, GTS will develop Synchro models inclusive of the preferred set of improvements with optimized signal timings for each of synchronization period. A table will be prepared to compare measures of effectiveness (MOEs) between the existing conditions and the proposed Synchro models. MOEs are anticipated to include LOS, total travel time, total delay, fuel consumption, and stops.

Sample Recent Relevant Projects:

- City of Rancho Palos Verdes Traffic On-Call: Carried out the Hawthorne and Via Rivera intersection, Crenshaw signals coordination, and Hawthorne and Eddinghill left turn phase analysis
- City of Glendora: Carried out the traffic signal coordination and timing for Route 66 within city

limits

3. Review/Prepare Traffic Control Plans

GTS often assists with maintenance of traffic requirements for CIP projects from resurfacing projects to projects involving signal designs, signing and striping, and bicycle facilities design.

We will work with the City to efficiently prepare or review and approve plans and maintain schedules. We provide high quality through the plan check cycle, from planning and design to construction completion. Typical projects include:

- New traffic signals or traffic signal modifications.
- Power source and cabinet placement.
- Required street lighting and integration with traffic control.
- Conformance with ADA requirements.
- Street improvement, rehabilitation, and widening plans.

Sample Recent Relevant Projects:

- City of Hermosa Beach Traffic On-Call: Conducted review (within one to two days) of outdoor dining designs for about 17 parklets
- City of Santa Monica 20th Street: Carried out traffic control plans (following Caltrans standards) and invitations to the meetings

4. Prepare Grant Applications

We will assist the City with identifying and applying for funding to realize the various CIP projects. GTS has assisted various cities with grant applications and grant management. We recently carried out 3 grant applications for the HSIP program for the cities of Buena Park and La Habra Heights to help upgrade signal hardware, construct new signals, and upgrade guardrail. We understand not only the grant writing process, but equally important the scoring rubric that is essential to ensure successful grant applications.

Our team has previously supported the City of Commerce on successfully obtaining HSIP and ATP grants.

As part of our project delivery, we also support cities with grant management and dealing with the funding agency requirements such as E-76 and others.

Sample Recent Relevant Projects:

- City of La Habra Heights: Prepared HSIP applications for guardrail upgrades and new traffic signal
- City of Buena Park: Prepared HSIP application for

signal modifications

- Prepared LRSP applications for various cities (South Pasadena, Hidden Hills, Buena Park, etc.)

5. Attend Meetings and Prepare Presentation Materials

GTS often plans and attends council, commission, and community meetings to solicit input and feedback on projects. The scope of our services ranges from one-on-one briefings to community at-large gatherings. These meetings can take place at various milestones during the life of the project. Meeting topics range from presenting initial findings to soliciting feedback from the community or council/commission.

GTS is prepared to assist with leading the meetings, note taking, and support services which will include coordination of meeting times and locations, handouts, sign-in sheets, organization of facility details (venue assumed to be provided by the City), and meeting set-ups. We will also work with the City to provide the notices and invitations to the meetings.

Sample Recent Relevant Projects:

- City of La Habra Heights: Presented to the Council and Road Commission on the project progress
- City of Torrance Downtown Revitalization: Participated in community outreach presenting on circulation and parking elements

Quality Assurance & Control Brief

GTS ensures project deliverables are free of errors, easy to understand, and executed in line with client expectations. Our established quality control process builds on our experience to offer precision in delivery of our work. Our quality assurance/quality control plan begins before the task order is assigned, during scoping discussions. At this time, our project manager will work with the City of Santa Clarita to define the project tasks, establish roles and responsibilities for project team members, identify communication protocols, and identify success criteria for the project.

**WE PLAN
THE WORK
AND WORK
THE PLAN!**

Subsequently, we develop a draft definition of required project tasks, deliverables, budget, and schedule. Risk management, change management strategies, and project communication plans are incorporated into this planning process. Once these tasks have been reviewed, modified, and adopted by the project team, GTS will proceed with the project as planned, providing continuous support and regular communication with the City.

For design work, our design plans will be field verified and reviewed by senior staff members during the design.

Effective and Timely Communication

Whereby we expect on-going interaction with City staff during each task order where progress can be monitored. This could include weekly touchpoints to discuss the project and ensure all parties are up to date on project progress. We anticipate that informal check-in meetings will occur regularly.

I. Related Experience and References

On-Call Traffic Engineering and Transportation Planning

Orange County Transportation Authority On-Call

GTS supports OCTA on a variety of tasks related to State and Federal-aid projects, including the review of projects for grant funding eligibility under various State and Federal Programs. This has included the review of applications for the 2024 Enhanced Mobility for Seniors and Individuals with Disabilities Program (EMSD), analyzing proposed activities for compatibility with eligible activities and program priorities for this program through which funding is distributed by OCTA; and reviewing transportation projects for eligibility for Federal funds through the Congestion Mitigation and Air Quality (CMAQ) program, among others. In addition to grant program support, GTS has also assisted OCTA with design review, contracting, and construction estimate reviews.

City of Glendora Transportation Planning and Traffic Engineering On-Call

GTS contracted with the City of Glendora to develop a citywide Local Road Safety Plan (LRSP). The purpose of the LRSP is to identify a prioritized set of evidence-based safety countermeasures that can be implemented on local roads to prevent traffic injuries and deaths. In addition, the LRSP is required for

K. Fee Schedule

NAME: **General Technologies and Solutions (GTS)**

RATES EFFECTIVE BEGINNING: **July 1, 2025**

ENDING: **June 30, 2026**

LABOR RATES	
Labor Category/Grade	Hourly Fully-Loaded Rate
Engineer / Planner / Analyst (L1)	\$115.00 - \$145.00
Engineer / Planner / Analyst (L2)	\$125.00 - \$165.00
Engineer / Planner / Analyst (L3)	\$145.00 - \$185.00
Engineer / Planner / Analyst (L4)	\$165.00 - \$200.00
Engineer / Planner / Analyst (L5)	\$175.00 - \$225.00
Engineer / Planner / Analyst (L6)	\$195.00 - \$235.00
Principal L7	\$235.00 - \$330.00
Intern (L1)	\$90.00 - \$125.00
Project Admin / CAD / Graphics (L2)	\$115.00 - \$145.00
Project Admin / CAD / Graphics (L4)	\$145.00 - \$210.00

Yearly escalations are limited to the highest of consumer price index (CPI) or 5%.

Mileage and Printing are charged per the maximum allowable IRS rate.

Other expenses (surveys, etc.) will be charged at cost plus 10%.