



CITY COUNCIL AGENDA REPORT

MEETING DATE: APRIL 3, 2012

ITEM NUMBER: _____

SUBJECT: PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF HARBOR BOULEVARD AND VICTORIA STREET INTERSECTION IMPROVEMENTS

DATE: MARCH 22, 2012

FROM: PUBLIC SERVICES DEPARTMENT - TRANSPORTATION SERVICES DIVISION

PRESENTATION BY: RAJA SETHURAMAN, ACTING PUBLIC SERVICES DIRECTOR

FOR FURTHER INFORMATION CONTACT: RAJA SETHURAMAN, ACTING PUBLIC SERVICES DIRECTOR, (714) 754-5343

RECOMMENDATION:

- 1) Award a Professional Services Agreement (Attachment 1) for the design of Harbor Boulevard and Victoria Street intersection improvements to VA Consulting, 6400 Oak Canyon, Suite 150, Irvine, CA 92603, in the amount of \$70,434.
- 2) Approve Budget Adjustment 12-016 (Attachment 2) in the amount of \$70,434.
- 3) Authorize the Mayor and the City Clerk to execute the Professional Services Agreement and the Budget Adjustment.

BACKGROUND:

Harbor Boulevard is classified as a Major Arterial in the Orange County Transportation Authority's (OCTA) Master Plan of Arterial Highways (MPAH). Victoria Street is classified as a Primary Arterial in the MPAH. Victoria Street provides an attractive connection to the SR-55 and I-405 Freeways from westside Costa Mesa and southeast Huntington Beach areas. This is evident from the distribution of traffic volumes during peak periods. During the morning peak period, there is a significant amount of eastbound traffic. Conversely, during the evening peak period, there is a significant amount of westbound traffic. In addition, there is significant pedestrian traffic at the intersection at Harbor Boulevard and Victoria Street. In order to address existing and future traffic operations, the following improvements may be implemented:

- Convert westbound right-turn lane to optional through-right lane
- Addition of eastbound right-turn lane

In January 2011, the City applied for Measure M2 grant funding for engineering design for improvements at the intersection of Harbor Boulevard and Victoria Street. In July 2011, the City was awarded Measure M2 grant funds for engineering design for improvements at this intersection.

ANALYSIS:

In December 2011, the City issued a Request for Proposals (RFP) to several consulting firms for civil engineering design and right-of-way engineering services. Seven (7) proposals were received to provide the intended engineering services. Proposals were reviewed for compliance with the City's RFP, and consultants were evaluated based on project understanding, depth of experience, technical expertise, and associated factors. After careful review of all the proposals, staff finds VA Consulting well qualified to perform engineering

design and right-of-way engineering services. The proposal submitted by VA Consulting represents a thorough understanding of the project, complies with the project specifications, and documents technical ability and experience with similar projects.

ALTERNATIVES CONSIDERED:

One alternative would be to perform the design work in-house. However, the scope of work and demands of the project exceed staff's resources and time.

A second alternative would be not to undertake this project. However, this will result in significant traffic flow issues to remain at this intersection and will also result in relinquishing Measure M2 grant funds captured for this project.

FISCAL REVIEW:

The City of Costa Mesa has secured Measure M2 funding in the amount of \$48,750 toward the design of improvements for the intersection of Harbor Boulevard and Victoria Street. Traffic Impact Fee funds will be utilized as matching funds and for the balance of funds necessary for engineering design (\$21,684). The attached Budget Adjustment 12-016 recognizes the grant funding and unencumbered fund balance and appropriates it for the project. Following the conclusion of the design phase, staff will pursue future Measure M2 funding for right-of-way acquisition and the construction phases of the project.

LEGAL REVIEW:

The City Attorney's office has prepared the attached Professional Services Agreement and has approved the document relative to form.

CONCLUSION

After careful review of seven (7) proposals submitted for civil engineering design and right-of-way engineering services for improvements at the intersection of Harbor Boulevard and Victoria Street, it is recommended that the City Council award the Professional Services Agreement to VA Consulting. Staff also requests approval of Budget Adjustment 12-016 to appropriate funding for the project.



RAJA SETHURAMAN
Acting Public Services Director



BOBBY YOUNG
Finance and I.T. Director

ATTACHMENTS: 1 - Professional Services Agreement
 2 - Budget Adjustment 12-016

DISTRIBUTION: Chief Executive Officer
 Assistant Chief Executive Officer
 City Attorney
 City Clerk

**PROFESSIONAL SERVICES AGREEMENT
FOR ENGINEERING SERVICES**

THIS AGREEMENT is made and entered into this 3rd day of April, 2012 ("Effective Date"), by and between the CITY OF COSTA MESA, a municipal corporation ("City"), and VA CONSULTING, INC., a California Corporation ("Consultant").

WITNESSETH:

- A. WHEREAS, City proposes to utilize the services of Consultant as an independent contractor to perform professional engineering services for improvements at the intersection of Harbor Boulevard and Victoria Street as more fully described in Consultant's Proposal attached as Exhibit "A"; and
- B. WHEREAS, Consultant represents that it has that degree of specialized expertise contemplated within California Government Code, Section 37103, and holds all necessary licenses to practice and perform the services herein contemplated; and
- C. WHEREAS, City and Consultant desire to contract for the specific services described in Exhibit "A" (the "Project") and desire to set forth their rights, duties and liabilities in connection with the services to be performed; and
- D. WHEREAS, no official or employee of City has a financial interest, within the provisions of California Government Code, Sections 1090-1092, in the subject matter of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions contained herein, the parties hereby agree as follows:

1.0. SERVICES PROVIDED BY CONSULTANT

1.1. Scope of Services. Consultant shall provide the professional services described in Consultant's Proposal, a copy of which is attached hereto as Exhibit "A" and incorporated herein by this reference.

1.2. Professional Practices. All professional services to be provided by Consultant pursuant to this Agreement shall be provided by personnel experienced in their respective fields and in a manner consistent with the standards of care, diligence and skill ordinarily exercised by professional consultants in similar fields and circumstances in accordance with sound professional practices. It is understood that in the exercise of every aspect of its role, within the scope of work, consultant will be representing the City of Costa Mesa, and all of its actions, communications, or other work, during its employment, under this contract is under the direction of the department. Consultant also warrants that it is familiar with all laws that may affect its performance of this Agreement and shall advise City of any changes in any laws that may affect Consultant's performance of this Agreement.

1.3. Performance to Satisfaction of City. Consultant agrees to perform all the work to the complete satisfaction of the City and within the hereinafter specified. Evaluations of the work will be done by the City Clerk or her designee. If the quality of work is not satisfactory, City in its discretion has the right to:

- (a) Meet with Consultant to review the quality of the work and resolve the matters of concern;
- (b) Require Consultant to repeat the work at no additional fee until it is satisfactory; and/or
- (c) Terminate the Agreement as hereinafter set forth.

1.4. Warranty. Consultant warrants that it shall perform the services required by this Agreement in compliance with all applicable Federal and California employment laws including, but not limited to, those laws related to minimum hours and wages; occupational health and safety; fair employment and employment practices; workers' compensation insurance and safety in employment; and all other Federal, State and local laws and ordinances applicable to the services required under this Agreement. Consultant shall indemnify and hold harmless City from and against all claims, demands, payments, suits, actions, proceedings, and judgments of every nature and description including attorneys' fees and costs, presented, brought, or recovered against City for, or on account of any liability under any of the above-mentioned laws, which may be incurred by reason of Consultant's performance under this Agreement.

1.5. Non-discrimination. In performing this Agreement, Consultant shall not engage in, nor permit its agents to engage in, discrimination in employment of persons because of their race, religion, color, national origin, ancestry, age, physical handicap, medical condition, marital status, sexual gender or sexual orientation, except as permitted pursuant to Section 12940 of the Government Code.

1.6. Non-Exclusive Agreement. Consultant acknowledges that City may enter into agreements with other consultants for services similar to the services that are subject to this Agreement or may have its own employees perform services similar to those services contemplated by this Agreement.

1.7. Delegation and Assignment. This is a personal service contract, and the duties set forth herein shall not be delegated or assigned to any person or entity without the prior written consent of City. Consultant may engage a subcontractor(s) as permitted by law and may employ other personnel to perform services contemplated by this Agreement at Consultant's sole cost and expense.

1.8. Confidentiality. Employees of Consultant in the course of their duties may have access to financial, accounting, statistical, and personnel data of private individuals and employees of City. Consultant covenants that all data, documents, discussion, or other information developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed by Consultant without written authorization by City. City shall grant such authorization if disclosure is required by law. All City data shall be returned to City upon the termination of this Agreement. Consultant's covenant under this Section shall survive the termination of this Agreement.

2.0. COMPENSATION AND BILLING

2.1. Compensation. As compensation for the provision of services outlined in Exhibit "A" and in accordance with this agreement, Consultant shall be paid in accordance with the fee schedule set forth in Exhibit "B," attached hereto and incorporated by reference. Consultant's total compensation shall not exceed Seventy Thousand Four Hundred and Thirty Four Dollars (\$70,434.00).

2.2. Additional Services. Consultant shall not receive compensation for any services provided outside the scope of services specified in the Consultant's Proposal unless the City or the Project Manager for this Project, prior to Consultant performing the additional services, approves such additional services in writing. It is specifically understood that oral requests and/or approvals of such additional services or additional compensation shall be barred and are unenforceable.

2.3. Method of Billing. Consultant may submit invoices to City supervisor for approval on a progress basis, but no more often than two times a month. Said invoice shall be based on the total of all Consultant's services which have been completed to City's sole satisfaction as of the date the invoice is created. City shall pay Consultant's invoice within forty-five (45) days from the date City receives said invoice. Each invoice shall describe in detail, the services performed, the date of performance, and the associated time for completion. Any additional services approved and performed pursuant to this Agreement shall be designated as "Additional Services" and shall identify the number of the authorized change order, where applicable, on all invoices.

2.4. Records and Audits. Records of Consultant's services relating to this Agreement shall be maintained in accordance with generally recognized accounting principles and shall be made available to City or its Project Manager for inspection and/or audit at mutually convenient times for a period of three (3) years from the Effective Date.

3.0. TIME OF PERFORMANCE

3.1. Commencement and Completion of Work. The professional services to be performed pursuant to this Agreement shall commence within five (5) days from the Effective Date of this Agreement. Said services shall be performed in strict compliance with the Project Schedule approved by City as set forth in Exhibit "C," attached hereto and incorporated herein by this reference. The Project Schedule may be amended by mutual agreement of the parties. Failure to commence work in a timely manner and/or diligently pursue work to completion may be grounds for termination of this Agreement.

3.2. Excusable Delays. Neither party shall be responsible for delays or lack of performance resulting from acts beyond the reasonable control of the party or parties. Such acts shall include, but not be limited to, acts of God, fire, strikes, material shortages, compliance with laws or regulations, riots, acts of war, or any other conditions beyond the reasonable control of a party.

4.0. TERM AND TERMINATION

4.1. Term. This Agreement shall commence on the Effective Date and continue for a period of fourteen months ending on June 30, 2013, unless previously terminated as provided herein or as otherwise agreed to in writing by the parties. At the end of the term period, Consultant and City may mutually agree, in writing, to renew the contract for up to four (4) term periods of one (1) year each.

4.2. Notice of Termination. The City reserves and has the right and privilege of canceling, suspending or abandoning the execution of all or any part of the work contemplated by this Agreement, with or without cause, at any time, by providing written notice to Consultant. The termination of this Agreement shall be deemed effective upon receipt of the notice of termination. In the event of such termination, Consultant shall immediately stop rendering services under this Agreement unless directed otherwise by the City.

4.3. Compensation. In the event of termination, City shall pay Consultant for reasonable costs incurred and professional services satisfactorily performed up to and including the date of City's written notice of termination. Compensation for work in progress shall be prorated as to the percentage of work completed as of the effective date of termination in accordance with the fees set forth herein. In ascertaining the professional services actually rendered hereunder up to the effective date of termination of this Agreement, consideration shall be given to both completed work and work in progress, to complete and incomplete drawings, and to other documents pertaining to the services contemplated herein whether delivered to the City or in the possession of the Consultant.

4.4. Documents. In the event of termination of this Agreement, all documents prepared by Consultant in its performance of this Agreement including, but not limited to, finished or unfinished design, development and construction documents, data studies, drawings, maps and reports, shall be delivered to the City within ten (10) days of delivery of termination notice to Consultant, at no cost to City. Any use of uncompleted documents without specific written authorization from Consultant shall be at City's sole risk and without liability or legal expense to Consultant.

5.0. INSURANCE

5.1. Minimum Scope and Limits of Insurance. Consultant shall obtain, maintain, and keep in full force and effect during the life of this Agreement all of the following minimum scope of insurance coverages with an insurance company admitted to do business in California, rated "A," Class X, or better in the most recent Best's Key Insurance Rating Guide, and approved by City:

- (a) Commercial general liability, including premises-operations, products/completed operations, broad form property damage, blanket contractual liability, independent contractors, personal injury or bodily injury with a policy limit of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence. If such insurance contains a general aggregate limit, it shall apply separately to this Agreement or shall be twice the required occurrence limit.

- (b) Business automobile liability for owned vehicles, hired, and non-owned vehicles, with a policy limit of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence for bodily injury and property damage.
- (c) Workers' compensation insurance as required by the State of California. Consultant agrees to waive, and to obtain endorsements from its workers' compensation insurer waiving subrogation rights under its workers' compensation insurance policy against the City, its officers, agents, employees, and volunteers arising from work performed by Consultant for the City and to require each of its subcontractors, if any, to do likewise under their workers' compensation insurance policies.
- (d) Professional errors and omissions ("E&O") liability insurance with policy limits of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence and aggregate. Architects' and engineers' coverage shall be endorsed to include contractual liability. If the policy is written as a "claims made" policy, the retro date shall be prior to the start of the contract work. Consultant shall obtain and maintain, said E&O liability insurance during the life of this Agreement and for three years after completion of the work hereunder.

5.2. Endorsements. The commercial general liability insurance policy and business automobile liability policy shall contain or be endorsed to contain the following provisions:

- (a) Additional insureds: "The City of Costa Mesa and its elected and appointed boards, officers, officials, agents, employees, and volunteers are additional insureds with respect to: liability arising out of activities performed by or on behalf of the Consultant pursuant to its contract with the City; products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; automobiles owned, leased, hired, or borrowed by the Consultant."
- (b) Notice: "Said policy shall not terminate, be suspended, or voided, nor shall it be cancelled, nor the coverage or limits reduced, until thirty (30) days after written notice is given to City."
- (c) Other insurance: "The Consultant's insurance coverage shall be primary insurance as respects the City of Costa Mesa, its officers, officials, agents, employees, and volunteers. Any other insurance maintained by the City of Costa Mesa shall be excess and not contributing with the insurance provided by this policy."
- (d) Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the City of Costa Mesa, its officers, officials, agents, employees, and volunteers.

- (e) The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5.3. Deductible or Self Insured Retention. If any of such policies provide for a deductible or self-insured retention to provide such coverage, the amount of such deductible or self-insured retention shall be approved in advance by City. No policy of insurance issued as to which the City is an additional insured shall contain a provision which requires that no insured except the named insured can satisfy any such deductible or self-insured retention.

5.4. Certificates of Insurance: Consultant shall provide to City certificates of insurance showing the insurance coverages and required endorsements described above, in a form and content approved by City, prior to performing any services under this Agreement.

5.5. Non-limiting: Nothing in this Section shall be construed as limiting in any way, the indemnification provision contained in this Agreement, or the extent to which Consultant may be held responsible for payments of damages to persons or property.

6.0. GENERAL PROVISIONS

6.1. Entire Agreement: This Agreement constitutes the entire Agreement between the parties with respect to any matter referenced herein and supersedes any and all other prior writings and oral negotiations. This Agreement may be modified only in writing, and signed by the parties in interest at the time of such modification. The terms of this Agreement shall prevail over any inconsistent provision in any other contract document appurtenant hereto, including exhibits to this Agreement.

6.2. Representatives. The City Manager or his or her designee shall be the representative of City for purposes of this Agreement and may issue all consents, approvals, directives and agreements on behalf of the City, called for by this Agreement, except as otherwise expressly provided in this Agreement.

Consultant shall designate a representative for purposes of this Agreement who shall be authorized to issue all consents, approvals, directives and agreements on behalf of Consultant called for by this Agreement, except as otherwise expressly provided in this Agreement.

6.3. Project Managers. City shall designate a Project Manager to work directly with Consultant in the performance of this Agreement.

Consultant shall designate a Project Manager who shall represent it and be its agent in all consultations with City during the term of this Agreement. Consultant or its Project Manager shall attend and assist in all coordination meetings called by City.

6.4. Notices: Any notices, documents, correspondence or other communications concerning this Agreement or the work hereunder may be provided by personal delivery, facsimile or mail and shall be addressed as set forth below. Such communication shall be deemed served or delivered: a) at the time of delivery if such communication is sent by personal

delivery; b) at the time of transmission if such communication is sent by facsimile; and c) 48 hours after deposit in the U.S. Mail as reflected by the official U.S. postmark if such communication is sent through regular United States mail.

IF TO CONSULTANT:

VA Consulting, Inc.
6400 Oak Canyon, Suite 150
Irvine, CA 92618
Tel: 949-474-1400
Fax: 949-474-8482
Attn: Mohammad Heiat,
P.E. President

IF TO CITY:

City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92626
Tel: 714-754-5017
Fax: 714-754-5028
Attn: David Cho

6.5. Drug-free Workplace Policy. Consultant shall provide a drug-free workplace by complying with all provisions set forth in City's Council Policy 100-5, attached hereto as Exhibit "D" and incorporated herein by reference. Consultant's failure to conform to the requirements set forth in Council Policy 100-5 shall constitute a material breach of this Agreement and shall be cause for immediate termination of this Agreement by City.

6.6. Attorneys' Fees: In the event that litigation is brought by any party in connection with this Agreement, the prevailing party shall be entitled to recover from the opposing party all costs and expenses, including reasonable attorneys' fees, incurred by the prevailing party in the exercise of any of its rights or remedies hereunder or the enforcement of any of the terms, conditions, or provisions hereof.

6.7. Governing Law: This Agreement shall be governed by and construed under the laws of the State of California without giving effect to that body of laws pertaining to conflict of laws. In the event of any legal action to enforce or interpret this Agreement, the parties hereto agree that the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California.

6.8. Assignment: Consultant shall not voluntarily or by operation of law assign, transfer, sublet or encumber all or any part of Consultant's interest in this Agreement without City's prior written consent. Any attempted assignment, transfer, subletting or encumbrance shall be void and shall constitute a breach of this Agreement and cause for termination of this Agreement. Regardless of City's consent, no subletting or assignment shall release Consultant of Consultant's obligation to perform all other obligations to be performed by Consultant hereunder for the term of this Agreement.

6.9. Indemnification and Hold Harmless Consultant agrees to defend, indemnify, hold free and harmless the City, its elected officials, officers, agents and employees, at Consultant's sole expense, from and against any and all claims, actions, suits or other legal proceedings brought against the City, its elected officials, officers, agents and employees arising out of the performance of the Consultant, its employees, and/or authorized subcontractors, of the work undertaken pursuant to this Agreement. The defense obligation provided for hereunder shall apply without any advance showing of negligence or wrongdoing by the Consultant, its employees, and/or authorized subcontractors, but shall be required whenever any claim, action,

complaint, or suit asserts as its basis the negligence, errors, omissions or misconduct of the Consultant, its employees, and/or authorized subcontractors, and/or whenever any claim, action, complaint or suit asserts liability against the City, its elected officials, officers, agents and employees based upon the work performed by the Consultant, its employees, and/or authorized subcontractors under this Agreement, whether or not the Consultant, its employees, and/or authorized subcontractors are specifically named or otherwise asserted to be liable. Notwithstanding the foregoing, the Consultant shall not be liable for the defense or indemnification of the City for claims, actions, complaints or suits arising out of the sole active negligence or willful misconduct of the City. This provision shall supersede and replace all other indemnity provisions contained either in the City's specifications or Consultant's Proposal, which shall be of no force and effect.

6.10. Independent Contractor. Consultant is and shall be acting at all times as an independent contractor and not as an employee of City. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant's employees, except as set forth in this Agreement. Consultant shall not, at any time, or in any manner, represent that it or any of its or employees are in any manner agents or employees of City. Consultant shall secure, at its sole expense, and be responsible for any and all payment of Income Tax, Social Security, State Disability Insurance Compensation, Unemployment Compensation, and other payroll deductions for Consultant and its officers, agents, and employees, and all business licenses, if any are required, in connection with the services to be performed hereunder. Consultant shall indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant further agrees to indemnify and hold City harmless from any failure of Consultant to comply with the applicable worker's compensation laws. City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant's failure to promptly pay to City any reimbursement or indemnification arising under this paragraph.

6.11. PERS Eligibility Indemnification. In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility to enroll in PERS as an employee of City and entitlement to any contribution to be paid by City for employer contribution and/or employee contributions for PERS benefits.

6.12. Cooperation. In the event any claim or action is brought against City relating to Consultant's performance or services rendered under this Agreement, Consultant shall render any reasonable assistance and cooperation which City might require.

6.13. Ownership of Documents. All findings, reports, documents, information and data including, but not limited to, computer tapes or discs, files and tapes furnished or prepared by Consultant or any of its subcontractors in the course of performance of this Agreement, shall be and remain the sole property of City. Consultant agrees that any such documents or information shall not be made available to any individual or organization without the prior consent of City. Any use of such documents for other projects not contemplated by this Agreement, and any use of incomplete documents, shall be at the sole risk of City and without liability or legal exposure to Consultant. City shall indemnify and hold harmless Consultant from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from City's use of such documents for other projects not contemplated by this Agreement or use of incomplete documents furnished by Consultant. Consultant shall deliver to City any findings, reports, documents, information, data, in any form, including but not limited to, computer tapes, discs, files audio tapes or any other Project related items as requested by City or its authorized representative, at no additional cost to the City.

6.14. Public Records Act Disclosure: Consultant has been advised and is aware that all reports, documents, information and data including, but not limited to, computer tapes, discs or files furnished or prepared by Consultant, or any of its subcontractors, and provided to City may be subject to public disclosure as required by the California Public Records Act (California Government Code Section 6250 et. seq.). Exceptions to public disclosure may be those documents or information that qualify as trade secrets, as that term is defined in the California Government Code Section 6254.7, and of which Consultant informs City of such trade secret. The City will endeavor to maintain as confidential all information obtained by it that is designated as a trade secret. The City shall not, in any way, be liable or responsible for the disclosure of any trade secret including, without limitation, those records so marked if disclosure is deemed to be required by law or by order of the Court.

6.15. Conflict of Interest. Consultant and its officers, employees, associates and subconsultants, if any, will comply with all conflict of interest statutes of the State of California applicable to Consultant's services under this agreement, including, but not limited to, the Political Reform Act (Government Code Sections 81000, et seq.) and Government Code Section 1090. During the term of this Agreement, Consultant and its officers, employees, associates and subconsultants shall not, without the prior written approval of the City Representative, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subconsultants to abstain from a decision under this Agreement pursuant to a conflict of interest statute.

6.16. Responsibility for Errors. Consultant shall be responsible for its work and results under this Agreement. Consultant, when requested, shall furnish clarification and/or explanation as may be required by the City's representative, regarding any services rendered under this Agreement at no additional cost to City. In the event that an error or omission attributable to Consultant occurs, then Consultant shall, at no cost to City, provide all necessary design drawings, estimates and other Consultant professional services necessary to rectify and correct the matter to the sole satisfaction of City and to participate in any meeting required with regard

to the correction.

6.17. Prohibited Employment. Consultant will not employ any regular employee of City while this Agreement is in effect.

6.18. Order of Precedence. In the event of an inconsistency in this Agreement and any of the attached Exhibits, the terms set forth in this Agreement shall prevail. If, and to the extent this Agreement incorporates by reference any provision of any document, such provision shall be deemed a part of this Agreement. Nevertheless, if there is any conflict among the terms and conditions of this Agreement and those of any such provision or provisions so incorporated by reference, this Agreement shall govern over the document referenced.

6.19. Costs. Each party shall bear its own costs and fees incurred in the preparation and negotiation of this Agreement and in the performance of its obligations hereunder except as expressly provided herein.

6.20. No Third Party Beneficiary Rights. This Agreement is entered into for the sole benefit of City and Consultant and no other parties are intended to be direct or incidental beneficiaries of this Agreement and no third party shall have any right in, under or to this Agreement.

6.21. Headings. Paragraphs and subparagraph headings contained in this Agreement are included solely for convenience and are not intended to modify, explain or to be a full or accurate description of the content thereof and shall not in any way affect the meaning or interpretation of this Agreement.

6.22. Construction. The parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises with respect to this Agreement, this Agreement shall be construed as if drafted jointly by the parties and in accordance with its fair meaning. There shall be no presumption or burden of proof favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

6.23. Amendments. Only a writing executed by the parties hereto or their respective successors and assigns may amend this Agreement.

6.24. Waiver. The delay or failure of either party at any time to require performance or compliance by the other of any of its obligations or agreements shall in no way be deemed a waiver of those rights to require such performance or compliance. No waiver of any provision of this Agreement shall be effective unless in writing and signed by a duly authorized representative of the party against whom enforcement of a waiver is sought. The waiver of any right or remedy in respect to any occurrence or event shall not be deemed a waiver of any right or remedy in respect to any other occurrence or event, nor shall any waiver constitute a continuing waiver.

6.25. Severability. If any provision of this Agreement is determined by a court of competent jurisdiction to be unenforceable in any circumstance, such determination shall not affect the validity or enforceability of the remaining terms and provisions hereof or of the offending provision in any other circumstance. Notwithstanding the foregoing, if the value of

this Agreement, based upon the substantial benefit of the bargain for any party, is materially impaired, which determination made by the presiding court or arbitrator of competent jurisdiction shall be binding, then both parties agree to substitute such provision(s) through good faith negotiations.

6.26. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original. All counterparts shall be construed together and shall constitute one agreement.

6.27. Corporate Authority. The persons executing this Agreement on behalf of the parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said parties and that by doing so the parties hereto are formally bound to the provisions of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by and through their respective authorized officers, as of the date first above written.

CITY OF COSTA MESA,
A municipal corporation

Mayor of Costa Mesa

Date: _____

CONSULTANT

Signature

Date: _____

Name and Title

Social Security or Taxpayer ID Number

ATTEST:

City Clerk and ex-officio Clerk
of the City of Costa Mesa

APPROVED AS TO FORM:

City Attorney

Date: _____

APPROVED AS TO INSURANCE:

Risk Management

Date: _____

APPROVED AS TO CONTENT:

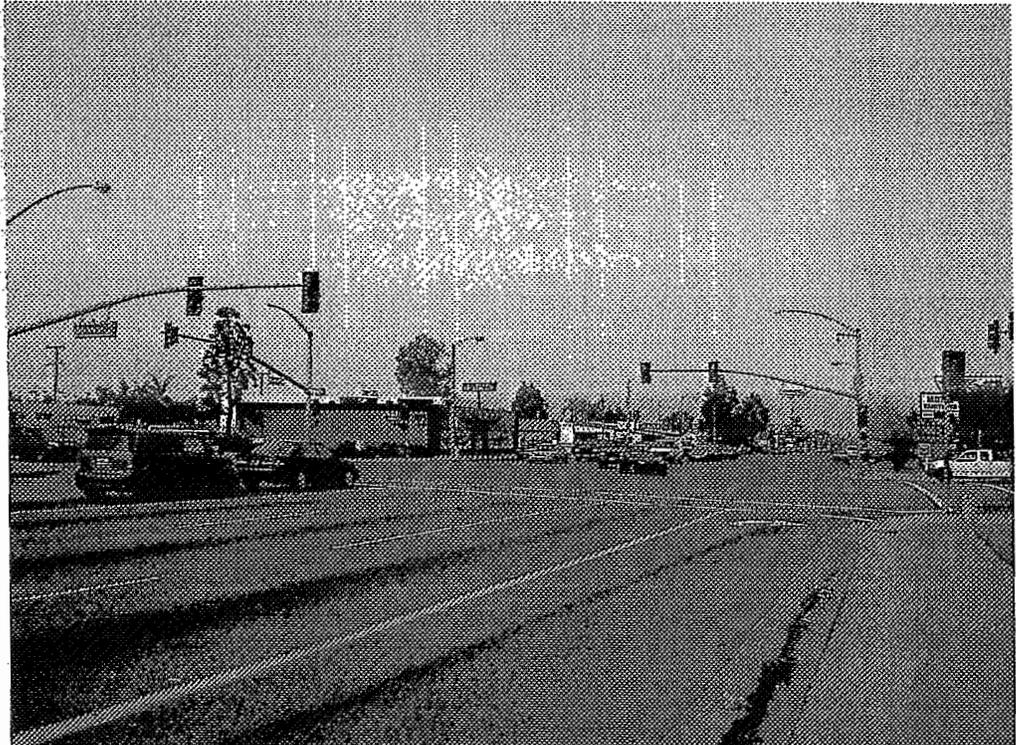
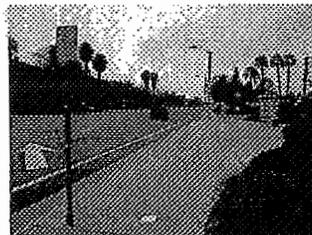
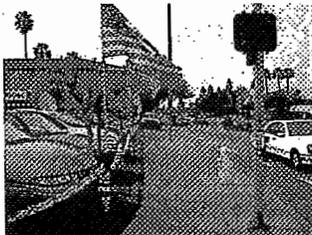
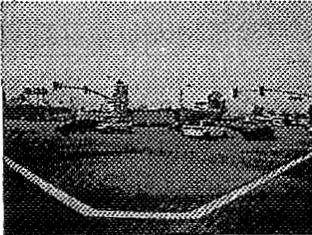
Project Manager

Date: _____

EXHIBIT A
CONSULTANT'S PROPOSAL

CITY OF
COSTA MESA
TRANSPORTATION SERVICES

TECHNICAL PROPOSAL
ENGINEERING SERVICES FOR
HARBOR BOULEVARD & VICTORIA STREET
INTERSECTION IMPROVEMENTS



Submitted by:



VA CONSULTING, INC.
Corporate Office / Orange County Division
6400 Oak Canyon, Suite 150
Irvine, CA 92603
www.vaconsultinginc.com

ENGINEERS | PLANNERS | SURVEYORS | CONSTRUCTION MANAGERS

January 20, 2012



January 20, 2012

Mr. Raja Sethuraman
Manager Transportation Services
City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92628

Dear Mr. Sethuraman:

VA Consulting, Inc. (VA) is pleased to submit this proposal to provide professional engineering services for the **Harbor Boulevard and Victoria Street Intersection Improvements Project** in response to the City of Costa Mesa (City) Request for Proposals (RFP) dated December 20, 2011. We have thoroughly reviewed the requirements in the RFP; visited the project area; identified key issues; and developed an approach which we are confident will result in a successful project.

VA has assembled an outstanding team of professionals to address all aspects for completion of detailed topographic survey, preliminary engineering design, right of way engineering and final construction documents for the subject project. We have selected a team of professionals from VA and five specialty consultants to form the VA Team. The name and project role of each firm on the team is shown below.

PROJECT TEAM	
Firm	Project Role
VA Consulting, Inc.	Overall project management, utility research and coordination, surveying, right of way engineering, street design, traffic signal modifications, signing and striping design, PS&E preparation, quality control, and bid and construction support services
Cooper Aerial Surveys Co	Aerial photography and mapping
Willdan Geotechnical	Geotechnical investigation and materials report preparation
Overland, Pacific & Cutler, Inc.	Right of way cost estimates and owner interviews
NUVIS (MBE/DBE Certified)	Landscape and irrigation design (if required)
Kana Pipeline, Inc.	Potholing

VA has recently prepared PS&E for pavement rehabilitation of Victoria Street from Harbor Boulevard to the Santa Ana River (westerly City boundary), dated March 15, 2011. The improvements associated with the current project fall within the limits of this former rehabilitation project. VA has design topography, base mapping and utility information of the entire intersection for use on this assignment. VA's approach to this project will be to use as much as of the previously collected information and knowledge as possible. The previous data will be supplemented with additional survey as needed for widening and private property improvements beyond existing right of way.

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Fax 949.261.8482

The VA Team will be lead by **Jeff Wilkerson, P.E., Project Manager**, who is one of VA's most experienced project managers for completing projects of this nature. Jeff has successfully managed/work on similar roadway/intersection improvement projects for the City of Costa Mesa and will efficiently coordinate design improvements with City staff. He was the project manager for the City's Victoria Street Rehabilitation Project and Howard Way, Century Place and 16th Street Improvements Project and served as Project Engineer on the City's 17th Street/Tustin Avenue and Harbor Boulevard/Wilson Street Intersection Improvements Project. This experience permitted him to become knowledgeable of the area and of the key issues associated with this type of project that will need special attention. The project will be managed and designed from VA's Irvine office. This will enable our project team to be available to respond to City's inquires and meeting notices within short notice.

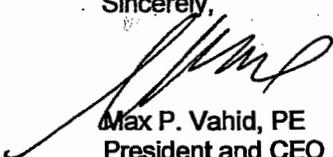
I have the authority to bind VA Consulting in a contract with the City. Mohammad Heiat will be the Principal in Charge and primary contact person for this proposal. Our contact information is as follows:

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We look forward to the opportunity to work with the City and have the available resources to commit to this project immediately. Should you have any questions regarding the information contained in our proposal, please feel free to contact us.

Sincerely,



Max P. Vahid, PE
President and CEO

MPV/cmj

Enclosure

cc: Mohammad Heiat; Jeff Wilkerson



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PROJECT UNDERSTANDING & WORK PLAN





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I. PROJECT UNDERSTANDING AND APPROACH

PROJECT UNDERSTANDING

The City of Costa Mesa (City) is seeking professional engineering consultant services to prepare Plans, Specifications, and Estimates (PS&E) to improve the intersection of Harbor Boulevard and Victoria Street (Project). The scope of project improvements includes intersection widening along the north and south sides of the westerly leg of Victoria Street to provide an exclusive eastbound right-turn lane and to lengthen the No.3 through lane departing the intersection. The latter widening/lengthening will allow conversion of the existing exclusive westbound right-turn lane into an optional through-right lane along Victoria Street. The new eastbound right-turn lane will require modification of the existing traffic signal and new sidewalk and ADA access improvements at the southwest corner of the intersection. Also, additional right-of-way (R/W), street light, utility and catch basin relocations, private property access improvements, and minor landscaping and irrigation modifications will be required for implementation of the Project. The proposed Project design must comply with the latest edition of Caltrans, Green Book, APWA and City Standards.

VA Consulting, Inc. (VA) Team has visited the Project site and reviewed the available record drawings and parcel maps and has noted the following:

This Project is located in a fully developed retail/commercial area. Harbor Boulevard and Victoria Street are Major Arterial and Primary Arterial roadways with posted 45 mph and 40 mph speed limits, respectively. The Project intersection is signalized and heavily utilized. There is an existing bus turn out along westbound Victoria Street, west of the intersection. There are existing storm drain lines with catch basins and laterals, street lights, and underground utilities within the streets R/W including water and sewer lines. The pavement within the intersection and proximity is in poor condition. **VA has recently prepared PS&E for pavement rehabilitation of Victoria Street from Harbor Boulevard to the Santa Ana River (westerly City boundary), dated March 15, 2011. The improvements associated with the current Project fall within the limits of this former rehabilitation Project. VA has in its files the design topography, base mapping and utility information for the entire intersection that could be used for this assignment. VA's approach to this Project will be to use as much of existing intersection design survey data and base mapping as possible, supplemented with additional survey as needed for widening and private property improvements beyond existing R/W.**

The potentially affected properties include Exquisite Car Sales, an apartment complex, Play it Again Sports and the South Coast Mower Shop. From the concept plan provided, it appears that the car sales business will experience significant parking impact that may require the relocation of the business. Since inventory selection is essential to an operation of this kind, and this particular site has limited drive isle space, the proposed design may make the existing operation nonviable. Landscaping and other hardscape improvements within the study area may also be impacted and subsequent field visits will be necessary to confirm their locations. There are no impacts depicted for any properties east of Harbor Boulevard.

Based on the City's objectives identified in the RFP, the selected Consultant will provide design and construction support services for the following three phases:

- Phase 1 – Preliminary Engineering and Topographic Survey,
- Phase 2 – Right-Of-Way Engineering, and
- Phase 3 - Final Engineering, Bidding and Construction Support Services.

MANAGEMENT OF KEY PROJECT ISSUES

Understanding and managing the key project issues associated with the Project will be critical to the success of this design assignment and meeting the City's accelerated schedule. We have visited the Project site and



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reviewed the available record drawings to familiarize ourselves with the existing improvements. We have identified the following issues that will need special attention with this Project.

- **Preliminary Alignment Study** – This will be a critical task and a main component of the Project preliminary design phase. The results and recommendations of this study will provide the basis for preparing final PS&E documents and right-of-way acquisition. The alignment study will have a direct impact on the resulting efforts to implement the Project in a cost-effective and timely manner while meeting the objectives of the City. A comprehensive and thorough identification and analysis of alignment alternatives and impacts during the preliminary design phase will help avoid Project re-design and keep the Project on schedule and within budget.
- **Utility Research and Coordination** - Thorough background research and investigation and coordination with utility agencies is critical for a successful Project. One benefit to the City is that our office subscribes to a comprehensive utility locator database for most utility agencies in southern California, providing contacts at each for sending and tracking notices. VA, on behalf of the City, will notify utility agencies early in the design process and continue coordination throughout the duration of design in accordance with the City's utility coordination procedures. VA's experts in utility coordination will work to make sure any potential relocations and/or adjustments of the affected utility appurtenances are accomplished on schedule in order to accommodate the Project improvements. VA will also coordinate with OCTA for relocated/temporary bus stops for Routes 47, 47A, and 173 along Victoria Street during construction of the extended westbound No. 3 through lane.
- **ADA Access Improvements** - Evaluation of existing driveway and corner wheel chair ramps, and providing ADA compliant facilities throughout the Project limits will be an important component of this Project. VA will identify existing improvements that do not meet ADA criteria, such as access ramps missing proper detectable warnings or having excessive grades, and the required 3-foot (min.) wide ADA travel path along the right-of-way at a maximum of 2% cross-fall.
- **Pavement Value Engineering** – Choosing an economical pavement design section for the roadway widening areas and intersection pavement rehabilitation is an important component of this Project. The Project Team will evaluate the existing pavement structural conditions with an engineered systems approach to:
 - Inventory pavement and soil conditions;
 - Analyze the extent and severity of any pavement distress;
 - Identify cost-effective alternative pavement structural sections for widening areas and repair or reconstruction recommendations, if necessary, for distressed areas; and
 - Investigate "Green" opportunities for use of recycled content materials or salvaged materials reuse.Our Geotechnical Engineer will evaluate alternative pavement structural sections with a 20-year design life, and provide a recommendation to the City. In this manner the VA Team will engineer the pavement design section(s) that best meets the City's needs.
- **Topographic Survey** - The VA team can offer High Definition Three-Dimensional Laser Scanning Survey for the Project in place of, or supplemental to conventional topographic surveying at no additional cost. The advantage of this method is that it does not require lane closures and slowing traffic on busy traffic routes and intersections such as Harbor Boulevard and Victoria Street and still gathers a much larger amount of topographic data. The laser scanning survey could also be performed at night when traffic volume at the intersection is very low.
- **Traffic Safety and Construction Impacts to Property and Businesses Owners** – Due to the heavy volume of traffic and close proximity to commercial and retail areas, it will be critical to minimize construction impacts. The VA team will outline measures in the specifications to closely monitor the contractor's work and progress to ensure compliance with lane closure restrictions and schedule constraints. It is critical that the Project specifications address circulation and access during construction.



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VA will include provisions that would require the contractor to maintain safe ADA-compliant pedestrian access at all times during construction. Specific items that VA will address in the specifications will include, but are not limited to, working hours, temporary lane closure hours and restrictions, identification of traffic control standards, emergency vehicle access, trash collection, and maintaining access to local businesses. VA will also coordinate with the OCTA to determine if temporary detouring of bus routes or temporary relocation of bus stops will be needed during construction.

- **Maintaining Project Schedule and Budget** – VA has successfully completed numerous similar projects on schedule and within budget for the City and other cities in Southern California. VA will immediately begin the initial data collection and background research tasks for this Project as soon as the notice to proceed is obtained. We will closely monitor our Surveyors and Soils Engineer's progress with field data collection and design, allowing the VA team to make adjustments to stay on schedule if necessary. During the design process VA will strive to expedite the Project completion for the City's benefit by:
 - Meeting with the City project team initially to identify expectations;
 - Performing thorough background research and investigation to resolve issues;
 - Performing in-house quality control throughout and prior to milestone submittals;
 - Focusing on critical path items; and
 - Identifying opportunities for and employing concurrent work processes.

SITE PHOTOGRAPHS SHOWING EXISTING CONDITIONS

The photographs provided on Figure 1 show existing conditions at the Harbor Boulevard/Victoria Street intersection. The captions on the photographs highlight some of the important elements of the Project.



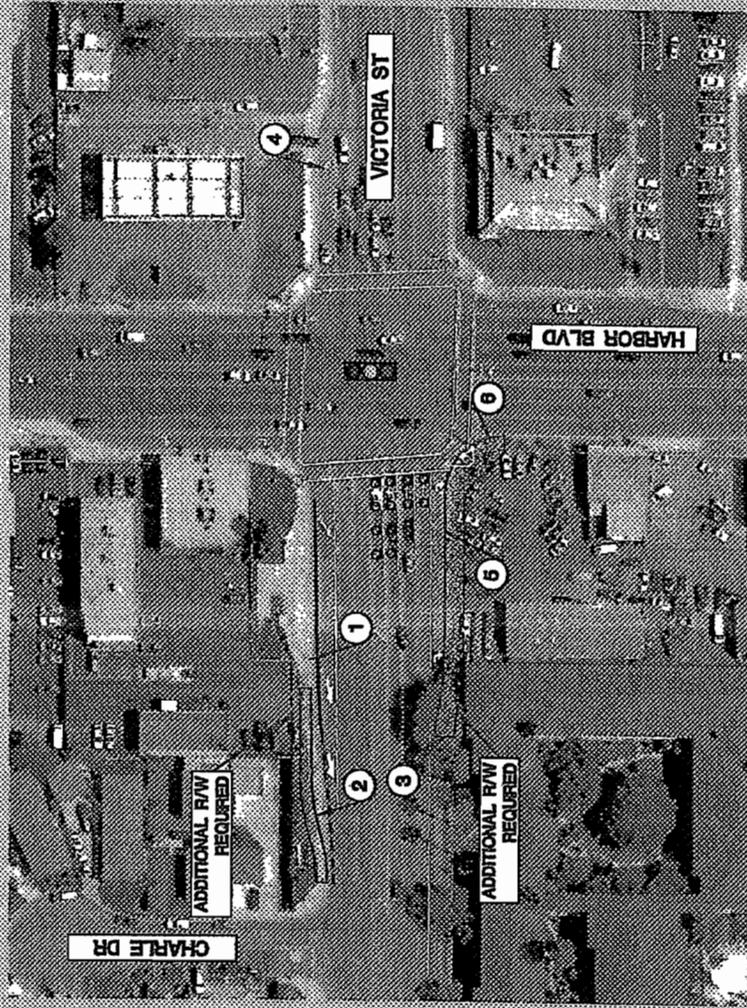
1
Looking west along Victoria Street west of Harbor Blvd. where length of No. 3 through lane will be extended. Improvements are anticipated to occur approximately between Ex. Street lights which may be able to remain in place. Project improvements will require new curb, gutter, sidewalk, driveway, utility adjustments, and join to existing private property improvements.



2
Looking west along Victoria Street toward Chino Drive where project improvements will join existing curb return. Proposed improvements will require additional R/W and realignment/adjustment of existing sign, landscaping and irrigation and on-site improvements of adjacent properties.



3
Looking east along Victoria St. towards Harbor Blvd. where improvements adjacent to apartment property. Proposed improvements will require additional R/W and adjustment to existing landscaping and irrigation improvements.



4
Looking east along Victoria Street at existing exclusive westbound right-turn lane at Harbor Blvd. Project will convert this lane into a through-right lane by modification of pavement markings and signing as appropriate.



5
Looking east along Victoria St. at Harbor Blvd. where project will provide an exclusive right-turn lane. Project improvements will impact existing curb, gutter, sidewalk, access ramp, utilities, fire hydrant, traffic signal standards, and adjacent car sales property where additional R/W is required.



6
Project improvements on southwest corner of intersection will require reconstruction of curb return including existing catch basin to accommodate an exclusive eastbound right-turn lane.

FIGURE 1
HARBOR BOULEVARD & VICTORIA STREET IMPROVEMENTS
CITY OF COBATA, MESA

PREPARED BY:
VA Consulting, Inc.
CONSULTING ENGINEERS • PLANNERS • SURVEYORS

LEGEND
 — PROP. CURB
 — EXIST. R/W
 — PROP. R/W
 [Symbol] SIGNALIZED INTERSECTION
 [Symbol] NEW TRAFFIC SIGNAL LOOP DETECTORS
 NO SCALE



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WORK PLAN

PHASE I – PRELIMINARY ENGINEERING AND TOPOGRAPHIC SURVEY

Task 1 – Preliminary Design Kick-Off Meeting

Following the notice to proceed, VA will schedule and attend a Kick-Off Meeting with City Staff to initiate the Project; establish lines of communication; review and refine, if needed, the Project scope of work and schedule; establish design guidelines; discuss Project parameters and constraints; and obtain background information.

Task 2 – Research and Data Collection and Obtain Permits

VA will research and obtain from the City and utility companies available as-built record street improvements, utility plans and record survey drawings for the Project. The VA team will initiate and obtain required City permits and right-of-entry for survey, geotechnical and potholing field work, if required.

Task 3– Topographic Field Survey

VA field crews will locate Project specific record map centerline bearings for horizontal control, centerline monument search (if existing/recoverable), Orange County Benchmark for vertical control and transfer it to the Project to use for the subsequent topographic design survey. VA field crews will establish a minimum of one (1) temporary benchmark for the Project.

VA will perform ground topographic survey as required in the RFP for Harbor Boulevard and Victoria Street (approximately 400 feet in all four directions from curb return) and pick up all existing topography within the proposed R/W lines and 50 feet beyond for the Project widening areas (for offsite work). The topographic design survey will be utilized for preparation of the base mapping and include cross-sections at a maximum of twenty five foot (25') intervals (ten foot intervals within intersection) including all culture as required by this RFP. Wheel chair ramps, pedestrian pathways and driveway approaches will be cross-sectioned at a maximum of five foot (5') intervals to fifty feet (50') beyond right-of-way. The field survey data will be down loaded and compiled to create topographic mapping of the area, including surface features, visible surface utilities (manholes/inverts, water valves, fire hydrants, catch basins, utility boxes, utility poles, overhead utilities, guy wires, vaults, etc.) curb/gutter, driveways, fences, landscape, trees, striping, paving, walks, handicap ramps, right-of-way, culture and contours for design purposes.

VA has in its files the design topography and base mapping of the entire intersection as part of a previous pavement rehabilitation project for Victoria Street from Harbor Boulevard to the Santa Ana River for use on this assignment. VA's approach to this Project will be to utilize as much of the existing intersection design survey data and base mapping from previous project as possible, supplemented with additional survey as needed for widening and private property improvements beyond existing R/W.

Task 4 – Topographic Aerial Survey

[This task deleted]

Task 5– Preliminary Right-of-Way Engineering

VA will research, compile and review existing survey control and mapping data from the City, County or other governing agencies for right-of-way information adjacent to or relevant to the Project's design. VA Team will prepare R/W maps to establish City and private right-of-way boundaries and identify the required R/W for the proposed roadway widening including obtaining no more than **two (2)** preliminary title reports for the properties affected with right-of-way acquisition for the proposed improvements. VA will review the title



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reports and other available deeds/easements/record maps of each affected property. Based upon the concept plan in the RFP, approximately 2 properties situated along the eastbound and westbound Victoria Street, west side of the intersection, would endure additional R/W take for the proposed widening to provide the desired through lanes and curb returns.

Task 6 – Utility Research and Coordination

VA will identify public utilities and easements within the Project limits and obtain available plans of existing utility facilities. VA will coordinate all work with the respective utility companies to verify location and depth of facilities for design purposes, and resolve any conflicts. VA will notify and distribute plans to affected utility companies and sanitary and water districts. VA will comply with the City's "Utility Coordination Procedures," and keep accurate records of contacts and correspondence with utilities and submit the "Utility File" to the City.

Task 7– Geotechnical/Materials Report

VA's team member Willdan Geotechnical Services will include investigation and exploring the existing pavement sections within the Project boundaries and providing design recommendations for reconstruction of the roadways. The services will include:

- Review of available background materials and visual pavement condition assessment reports prepared for subject streets.
- Review and additional reconnaissance of existing pavement conditions.
- Conducting geotechnical borings at strategic locations to determine existing pavement sections and collect representative samples of subgrade material for laboratory testing. Number and locations of the borings will be reviewed with project team and The City. **Considering the scope of work and our previous work on Victoria Street Rehabilitation Project, it is our opinion that 10 borings as proposed by the City in the RFP is excessive and performing only 6 borings will be sufficient to successfully collect the required subsurface soils properties for the proposed improvements.** The borings will average 5 feet in depth measured from existing ground surface.
- Laboratory testing of collected soil samples to determine their index and engineering properties. Laboratory testing will include in-place moisture and density, gradation, expansion potential, Corrosivity, and R-values.
- Preparation of Geotechnical Report presenting our findings, conclusions and recommendations. The report will include:
 - A map with a approximate locations of borings;
 - Logs with measured pavement and aggregate base thicknesses, and subgrade soils description as encountered in borings;
 - Summaries of test results;
 - Alternative pavement section (AC, CMB, PCC) design recommendations, for Traffic Indices calculated by VA based on traffic volume data provided by the City; and
 - Subgrade and aggregate base construction specifications confirming to Section 19 of Caltrans.
- Review of plans and specifications and as needed consultation with design team and the City for bid package preparation.

Task 8 – Precise Alignment and Conceptual Design

Following completion of background research and field inventory, collection of survey data, VA will prepare an aerial photo depicting geometric alignment design including any alternative(s) for the Harbor Boulevard and Victoria Street intersection. All the proposed turn and through lane configurations, and impacts to existing driveways, parkways, and private property improvements will be shown on the alignment plan. The



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existing and proposed R/W lines as well as Assessor Parcel (AP) numbers of properties impacted will be shown on this exhibit.

This task will include value engineering analysis and identification of both design and construction alternatives that may be employed to reduce Project costs and minimize conflicts between the proposed improvements, impacts to the existing offsite improvements and required R/W. VA will submit any alternatives to the City for review and discussion during the concept/preliminary design phase with preliminary cost estimate.

Task 9 – Project Management, Coordination and Meetings

VA will analyze the Projects, perform field site reviews of the Project area, evaluate existing conditions, research existing files, and meet with City's staff to define the detailed Project scope and objectives. At the kick off meeting, the design criteria, scope and street center line stationing will be discussed and approved. Six meetings (two per month for three months) will be held with City's staff during progress of design for appropriate guidance and coordination. VA will prepare meeting agendas, presentation materials, and distribute minutes of the meetings within two days after the meetings.

VA will prepare a Critical Path Method (CPM) network schedule based on the activities required for completion of Project milestones and subtasks. This information will be in the form of a bar chart and will indicate the deliverables schedule and other necessary data required for schedule control of the work, City review of work progress, and tasks and work completed each month. A copy of the CMP electronic file (Microsoft Project) and monthly updates will be furnished to the City Project Manager. VA will prepare Project invoices that will clearly separate all costs and will be based on a conservative estimate of the percentage complete for each Project task.

PHASE II– RIGHT-OF-WAY ENGINEERING

Task 1 – Determine Easement Documents and Prepare Legal Descriptions

VA Team will prepare R/W maps to establish City and private right-of-way boundaries and identify the required R/W for the proposed roadway widening. VA will review the preliminary title reports and other available deeds/easements/record maps of each affected property. VA will prepare R/W exhibits and legal descriptions including the Temporary Construction Easements (TCE's). The TCE's will be an additional one-foot (1') wide strip except where additional area is required for reconstruction and/or relocation of private fixtures and improvements. Based upon the RFP, two legal descriptions and two TCE will be prepared for the additional R/W take and widening.

R/W maps will be prepared in "Plan Only" format at 1" = 20' scale and show existing property lines, all required R/W, permit to enter and temporary construction easement areas. VA will provide traverse calculations and tie distances for acquisition areas that cannot be readily tied to a survey or construction centerline. Formal R/W appraisal, negotiations and acquisition services are excluded from scope of services and assumed will be performed by the City or others.

Task 2 – Property Owner Interviews

[This task deleted]

Task 3 – Programming Cost Estimates

[This task deleted]



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PHASE III– PLANS, SPECIFICATIONS & ESTIMATE (PS&E)

Task 1 –Title Sheet and Roadway Plans and Profiles

Plan and profile sheets will be prepared for the required improvements at 1" = 20' horizontal scale and 1" = 2' vertical. The roadway plans will include the street widening improvements for the proposed eastbound right-turn lanes and conversion of westbound right-turn lane to optional through-right lane along Victoria Street. These plans will include relocation of an existing catch basin and associated storm drain lateral due to the widening at the southwest corner of the intersection, pavement/concrete bus pad modifications(if necessary), adjusting manholes to grade, as required, and utility information. Where necessary intersection access ramps will be added or modified in accordance with current ADA standards. The plans will also indicate street light relocation and the new pole and conduit locations for the areas affected by the proposed widening.

The Project alternative(s) and preferred plan will also include off-site improvements and disposition notes for features impacted by the street widening such as commercial signs, landscaping including tree relocations and irrigation systems, repaving and parking facilities restriping, parking lot lights and fire line detector assemblies, fences, and construction of slough/retaining walls.

Task 2 – Intersection Details

Intersection details showing proposed improvements including elevations on a 10' grid system at a scale of 1" = 10' will be prepared at the intersection.

Task 3 – Design Details

Design details at a scale of 1" = 10' will be prepared for all new wheelchair ramps, retaining walls, driveways and driveway approaches. If required, design details for other features will also be prepared at an appropriate scale.

Task 4 – Field Review

VA will determine and mark on the plans limits of reconstruction, visible deficiencies such as damages to the existing driveways, curb, gutter and sidewalk, nuisance flow drainage problems, as well as joins with existing improvements. This work will be coordinated with City staff. Field walks with City staff will be scheduled to ensure detailed depiction on the plans and specifications of existing conditions and work requirements after first and second submittals.

Task 5 –Hydrologic/Hydraulic Analyses and Storm Drain Design

VA will prepare a hydrology and hydraulic analyses of local on-site to confirm the size of reconstructed catch basins, street capacity, and connections to existing storm drain laterals. Four (4) copies of a report, documenting findings and design calculations, will be included with each submittal of Project documents.

Task 6 –Signing and Striping Plans

VA will prepare a signing and striping plan using AutoCAD at 1" = 40' scale for implementation of the Project improvements. The plans will indicate the new striping and pavement markings within the Project limits. The plans will also include existing signs and new signs if necessary to meet current California Manual on Uniform Traffic Control Devices (CA MUTCD) standards. The traffic sign work will be based on an inventory of existing signs and an assessment of new Project signage upgrade requirements, if any. All improvements will be based on the latest California Manual on Uniform Traffic Control Devices (CA MUTCD) and City of Costa Mesa standards.



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Task 7 –Traffic Signal Modification Plans

VA will prepare a traffic signal modification plan using AutoCAD at 1" = 20' scale for signal improvements required for Project implementation at the Harbor Boulevard/Victoria Street intersection. The curb return on the southwest corner will be reconstructed as part of the roadway widening to provide an exclusive eastbound right-turn lane. New traffic signal standards (Type 26 and 1A, complete), pull boxes, and conduit will be installed at the new curb return. The traffic signal controller cabinet at this intersection is located on the northeast corner and will not be impacted by the Project. The traffic signal plan will be prepared in accordance with City of Costa Mesa and Caltrans standards. As part of this task, VA will conduct a thorough field inventory of the existing signal improvements at the intersection to confirm and supplement the as-built plans.

Task 8 – Document Water Pollution Control (WPC) Requirements

VA will review the Project and determine the construction and post-construction requirements for pollution control and storm water quality management. VA will formalize our findings in a letter report that states the water pollution control requirements for the Project. The letter report will include specific references to Regional Water Quality Control Board, County, and City requirements for pollution control activities. The letter report will include an evaluation of construction and post-construction water pollution control requirements. The final letter report will serve to guide the preparation of the Project design documents and bid documents with respect to water pollution control requirements. It is assumed that these documents including SWPPP and WQMP will be prepared by the contractor, if necessary.

Task 9 –Specifications

VA will prepare Project specifications for the Project including Special Provisions (including traffic control and detour information) and Bid Schedule forms in a format consistent with current City projects and boiler plate. Preparation of separate traffic control plans as part of this Project PS&E is not required. The specifications will also include requirements for erosion and pollution control during construction. VA will use Standard General Provisions and Construction Contract Agreement documents supplied by the City.

Task 10 –Quantity and Cost Estimates (QCE)

VA will prepare a complete construction quantity and engineer's opinion of probable construction costs for each Project. VA will submit the estimates at 70% and 90% and final submittals.

Task 11 –Resident Engineer Files

VA will prepare and submit a Resident Engineer's file for the Project in conjunction with the final submittal. These files will contain the following: preliminary and final construction quantities and cost estimates and updates, calculation documents, fieldwork information, meeting minutes, utility coordination correspondences, geotechnical and hydrology reports, survey information, and all other related correspondences.

Task 12 –Bidding and Construction Phase

[This task deleted]

Project Document Submittal and Plan Information

The plan submittals for this Project will comply with City's requirements as stated in RFP:

- Draft Soil Report and Hydrology Report (four sets);
- First Submittal: 70% complete plans with survey information, specifications and QCE (five sets) and Final



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Soil Report (four sets);

- Second Submittal: 90% complete plans, specifications, and QCE (five sets); and
- Final Submittal: Original mylar plans, specifications, final QCE, Resident Engineer's two files, survey information, monuments, and other related documents in hard copy and electronic format.

OPTIONAL (AS-NEEDED) TASKS

VA believes that the following tasks may be required, but will be used only as directed by the City's project manager:

Task 1 – Utility and Traffic Signal Foundation Potholing

Potholing may be required to locate active and abandoned utilities within the Project area and avoid conflicts with the proposed location of the new signal poles with deep foundations. Potholing will be done by VA's subconsultant to locate underground utilities that may be impacted by the proposed construction. For this proposal six (6) potholes are included per recommendation in the RFP. The potholing which will include traffic control in accordance with the Watch Manual will be coordinated to minimize traffic disruption. All potholes will be done in the public right of way in accordance with the City encroachment permit for this work and will be backfilled per City requirements.

Task 2 – Landscape and Irrigation Plans

[This task deleted]

Task 3 – Existing Right-of-Way Monuments and Record of Survey

[This task deleted]

PROJECT CONTROL PROCESSES

Project control will be established and maintained by the use of good communication, project management software (Deltek Vision, Microsoft Office Suite, etc.), internet based tools and accurate documentation. We understand that meeting submittal deadlines and schedules is critical to the successful implementation of projects. Our commitment and success in meeting project deadlines is reflected in VA's repeat business rate of over 75%. VA's methodology in monitoring and controlling projects is provided below.

Schedules

At the beginning of the project, VA will prepare a detailed project Work Breakdown Structure (WBS) that describes all of the work tasks necessary to complete the project. A Master Project Schedule will be prepared following the WBS showing the relationship between tasks and the expected start date and duration for each item. This schedule will serve as the guide to conducting and monitoring the progress of the work. VA will meet all agreed-upon deadlines.

Cost Control System

VA believes that controlling costs is ultimately dependent upon two major factors: (1) executing the work efficiently as described in the Scope of Work; and (2) identifying potential variables early. Cost control for both in-house and sub-consultants costs will be managed by the Project Manager. VA has a computerized accounting system which maintains detailed records by individual and activity, and allows tasks to be monitored against established budgets. The Project Manager receives regular reports to track project status. The system is totally integrated and easily audited. Supporting data can be provided to the City in any format required.



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Quality Control Program

A comprehensive quality control plan will be developed specifically for this project after the Notice to Proceed. The quality control plan will emphasize the need to clearly define requirements and standards, and the need to independently check all work by VA Team before it is issued to the City or other reviewing agencies. An independent senior manager from VA will oversee the quality control program and will audit the quality activities to see that all checks are completed properly. VA's quality control program will ensure that the project documents:

- Conform with the contract documents and scope of work;
- Are neat, well organized, clear, concise, and complete;
- Are technically and grammatically correct;
- Comply with generally accepted standards of engineering and applicable laws;
- Are signed, dated, and stamped as required; and
- Are consistent with other related plans.

Sustainable Design Practices

VA is committed to sustainable design, making it a core part of our professional practice by providing an environmentally sensitive solution to our client's projects. VA is a member of the U. S. Green Building Council and has four (4) LEED Accredited Professionals on staff. VA has designed innovative pavement recycling projects, leading storm water management projects catching first flush storm runoff and dry weather nuisance flows with water quality wetlands, and recharging groundwater through catching all storm water in infiltration basins. Recognizing environmental impacts, we create mitigating designs at each stage of the project that will reduce the negative impact without substantially increasing the bottom line. VA supports sustainable design practices through the following services:

- Use recycled content materials or salvaged materials for pavement value engineering alternatives;
- Prepare Best Management Practices (BMP);
- Provide Low Impact Design hydrology and hydraulic (LID);
- Prepare Storm Water Prevention Pollution Plans (SWPPP);
- Prepare Standard Urban Storm Water Mitigation Plans (SUSMP);
- Prepare site design to meet public access requirements and maximize open space;
- Prepare design for alternative transportation and parking facilities; and
- Optimize energy performance.

STATEMENT OF COMPLIANCE WITH CITY'S SERVICES AGREEMENT

This proposal is in strict compliance with the City's Request for Proposal and Draft Professional Services Agreement.

PROJECT SCHEDULE

VA's proposed project schedule is provided on the following page. The proposed schedule gives a general overview of the sequence of activities, task durations, and overall time frame for the project. Following the notice to proceed assumed on March 12, 2012, the 70% plans will be submitted to the City for review in May 2012. The 90% plan will be submitted in June 2012. The final plans will be submitted in July 2012. The advertisement and award period will be during month of August 2012.

The list of activities and durations proposed in the schedule will be discussed, reviewed, and finalized with the City at the Kickoff Meeting, and at subsequent progress meetings. The critical path items that define the overall duration of the schedule is decision and approval of the precise alignment alternative based upon the



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cost of additional R/W and impacts on private properties. During the design process VA will strive to maintain or expedite the project milestone completions by employing the following:

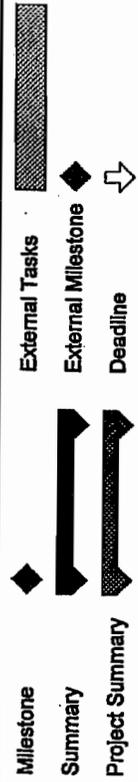
- Communicate regularly with City project team staff to identify expectations;
- Perform thorough background research and investigation to resolve issues;
- Perform in-house quality control throughout and prior to milestone submittals;
- Identifying opportunities for and employing concurrent work processes; and
- Focus on critical path items.



INTERSECTION IMPROVEMENTS FOR HARBOR BOULEVARD AND VICTORIA STREET CITY OF COSTA MESA



ID	Task Name	Duration	Start	Finish	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov				
1	Phase I: Preliminary Engineering & Survey	101 days	Mon 3/12/12	Mon 7/30/12													
2	Project Kick-Off & Data Collection	6 days	Mon 3/12/12	Mon 3/19/12													
3	Field and Aerial Surveys and Base Map	16 days	Mon 3/19/12	Mon 4/9/12													
4	Draft Hydrology and Soil Reports	21 days	Mon 3/19/12	Mon 4/16/12													
5	Utility Investigation & Coordination	96 days	Mon 3/19/12	Mon 7/30/12													
6	Preliminary R/W Engineering	11 days	Mon 4/9/12	Mon 4/23/12													
7	Preliminary Alignment Concept	11 days	Mon 4/9/12	Mon 4/23/12													
8	Phase II: R/W Engineering	46 days	Mon 4/23/12	Mon 6/25/12													
9	Determine all Easement Locations	21 days	Mon 4/23/12	Mon 5/21/12													
10	Coordinate With Property Owners	21 days	Mon 4/23/12	Mon 5/21/12													
11	Prepare Cost Estimate and Assess the Impacts	21 days	Mon 4/23/12	Mon 5/21/12													
12	Prepare Legal Descriptions	16 days	Mon 6/4/12	Mon 6/25/12													
13	Phase III: PS&E and Construction Support	136 days	Mon 4/23/12	Mon 10/29/12													
14	70 Percent Plans, Specifications & Estimates	21 days	Mon 4/23/12	Mon 5/21/12													
15	Final Hydrology and Soil Reports	21 days	Mon 4/23/12	Mon 5/21/12													
16	Agency Review	11 days	Mon 5/21/12	Mon 6/4/12													
17	90 Percent Plans, Specifications & Estimates	16 days	Mon 6/4/12	Mon 6/25/12													
18	Agency Review	11 days	Mon 6/25/12	Mon 7/9/12													
19	Final Plans, Specifications & Estimates	16 days	Mon 7/9/12	Mon 7/30/12													
20	Bidding and Construction Support	46 days	Mon 8/27/12	Mon 10/29/12													



VA Consulting, Inc.
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PROJECT TEAM





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II. PROJECT TEAM

VA Consulting, Inc. (VA) is a full service consulting engineering firm specializing in the fields of transportation, traffic, public works, water resources, land development, and land surveying. The firm is a private California "S" corporation founded in 1973 and has three offices strategically located in Southern California; a corporate headquarters office in Irvine, a branch office in Corona and a branch office in Coachella Valley.

For 38 years, VA has been providing high-quality services to private and public sector clients throughout Southern California. This work has benefited from the synergy within a multi-disciplinary firm that combines the diverse talents and experience of our staff to achieve client goals. Our success in this approach is reflected in VA's repeat business rate of over 75%.

Our technical staff consists of over 40 professional engineers, planners, and surveyors with the broad range of skills required for creative solutions to complex problems. Our staff, coupled with the application of the latest technical solutions, has helped VA accumulate an impressive record of accomplishment in the fields of:

TRANSPORTATION

Transportation and Traffic Engineering
Traffic Impact, Level of Services and Operational Analysis
Project Feasibility and Concept Assessment
Street and Highway Design
Traffic Signal, Striping and Signing Design
Pavement Rehabilitation Design
Retaining and Sound Wall Design
Traffic Control Design

WATER RESOURCES

Drainage, Flood Control & Water Quality
Water Distribution and Pump Systems
Sewer Lift and Collection Systems
Water Reservoir and Tank Design
Reclaimed Water Systems
Infiltration and Detention Basins
Watershed Management / Flood Routing
Water Quality Wetlands

SITE DEVELOPMENT

Commercial and Industrial Developments
Master Planning
Entitlement Processing
General and Specific Plan Amendments
Tract Maps
Grading, Utilities, Drainage and Water Quality
Infrastructure Design
Construction Support

SURVEYING

Photogrammetric Control Surveys
Topographical Surveys and Mapping
Property Boundary and ALTA Surveys
Records of Survey and Legal Descriptions
Global Positioning
3-D Laser Scanning
Construction Staking and Monumentation

VA's reputation as a responsive and effective consultant provides the cornerstone of our values and embodies our mission to provide quality planning, engineering, and land surveying to our clients and our community. Our completed projects are examples of the outstanding engineering work possible in today's high technology environment. VA assures the City that we have the staff and capabilities to complete the proposed project efficiently and under an aggressive timeline. The VA Team will be based out of VA's Corporate Office located in Irvine which is approximately 5 miles from City offices. This will enable our project team to be available to respond to inquires and in-person meeting notices within less than one hour. The primary project office contact information is provided below:



Max Vahid, PE
VA Consulting, Inc.
President and CEO
6400 Oak Canyon, Suite 150, Irvine, CA 92618
T: (949) 474-1400 | F: (949) 261-8482
maxvahid@vaconsultinginc.com



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PROJECT TEAM ORGANIZATION

VA has assembled a highly qualified team of consultants for this project. VA will serve as the primary consultant and will provide overall project management, surveying, right of way engineering, utilities coordination, civil engineering, traffic engineering, agency permitting processing, quality control and construction support activities for the project.

To support VA, we have teamed with two specialized sub-consultants who will provide focused technical assistance. Our integrated team structure will provide effective direction, hands-on control, and comprehensive coordination. Staff and team members were chosen based on their excellence in implementing street and intersection improvement projects, their familiarity and experience working with the City and involved agencies, and their ability to commit to this contract. Efficient coordination within our proposed team is facilitated by long-standing relationships between the team members as they have worked together on a number of local projects in a similar capacity.

The Team Organization Chart is provided on Page 19.

Sub-Consultant Information

Firm: **Willdan Geotechnical**

Primary Contact: Ross Khiabani, PE, GE; (714) 634-3318

Office Location: 1515 South Sunkist Street, Suite E, Anaheim, CA 92806

Work Tasks: Geotechnical Investigation and Materials Report

Company Profile: Willdan Geotechnical (a Willdan subsidiary known as Arroyo Geotechnical from 2001 to 2008) extends the broad range of Willdan's integrated services by offering a full complement of geology/geotechnical engineering capabilities, including a soil testing laboratory certified by the California Department of Transportation. Willdan responds to clients geologic and geotechnical challenges with expertise which encompasses cost-effective and innovative techniques and proven management skills for all phases of a project, including feasibility and site evaluation, geotechnical engineering and design, construction monitoring and inspection, materials testing, and post construction assessments. Willdan brings to each project licensed and experienced staff, familiar with local geologic and geotechnical conditions, technical standards, quality control procedures, and research and development.

Team Experience: VA and Willdan worked together on 17th Street and Tustin Avenue and Harbor Boulevard and Wilson Street Intersection Improvements (Costa Mesa); Victoria Street Rehabilitation (Costa Mesa); and Lomita Boulevard and Crenshaw Boulevard Intersection Improvements (Lomita).

Firm: **Kana Pipeline, Inc.**

Primary Contact: Jim Mihld, (714) 986-1400 ext. 227

Office Location: 1639 East Miraloma Avenue, Placentia, CA 92870

Work Tasks: Potholing

Company Profile: Kana Pipeline is an Orange County based potholing and utility location services firm. The firm utilizes state of the art equipments and provides complete potholing and utility location services to reduce the risk of damaging or destroying hidden utilities during construction. Kana provides both hydro and air vacuum excavation, electromagnetic and ground penetration radar equipments.



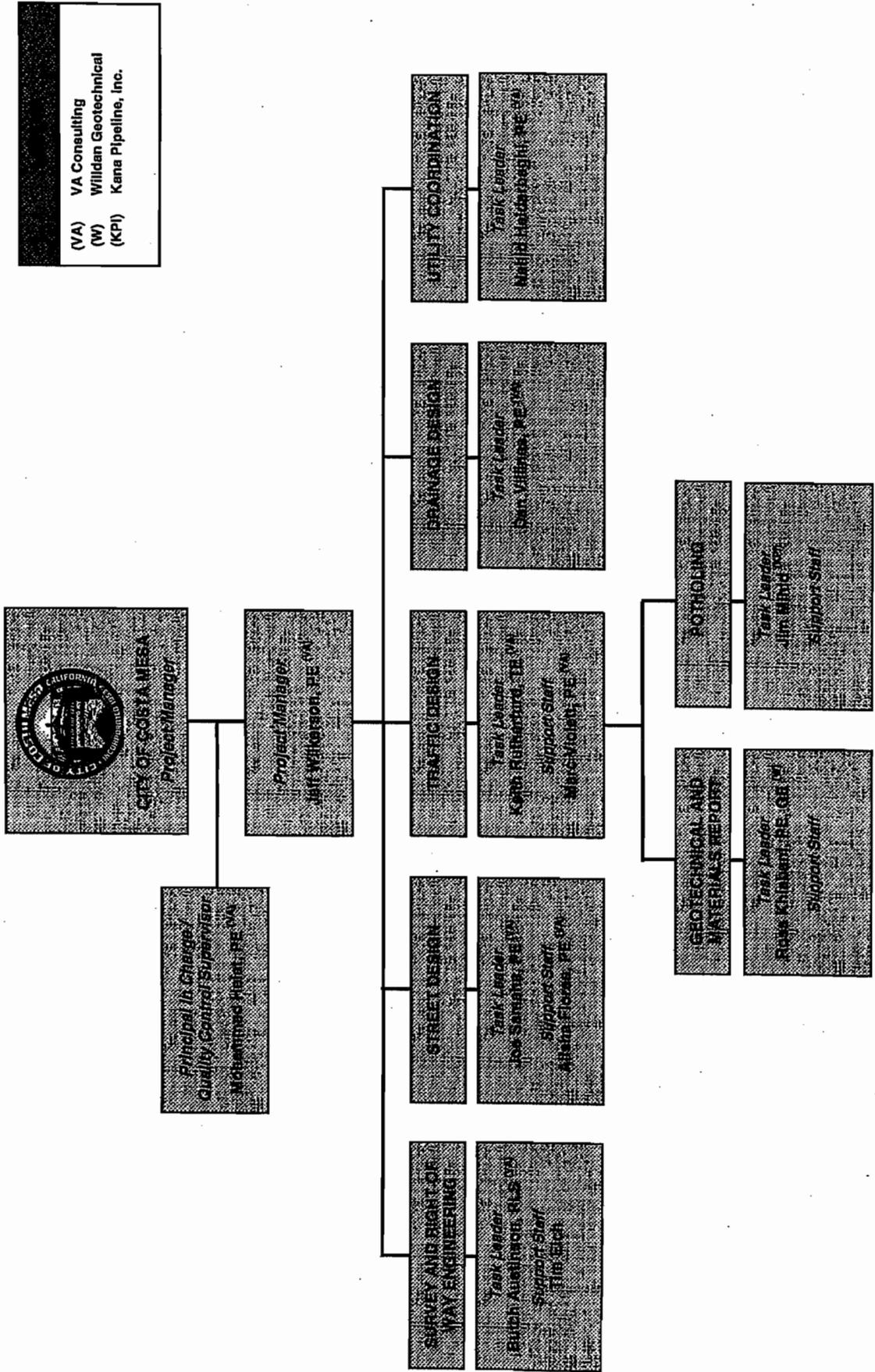
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Team Experience: VA and Kana Pipeline worked together on the Westbound SR-91 Widening PS&E Improvements from I-5 to SR-57 (Fullerton and Anaheim); and Lakewood Boulevard Improvements Phases 3B and 3C.

VA has an excellent working relationship with the listed sub-consultant's staff in achieving project goals and has successfully worked as a team on similar transportation improvement projects for public agencies.

HARBOR BOULEVARD AND VICTORIA STREET INTERSECTION IMPROVEMENTS PROJECT ORGANIZATION CHART



(VA) VA Consulting
(W) Willden Geotechnical
(KPI) Kana Pipeline, Inc.



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PROJECT MANAGEMENT

The key element in the management of the project will be to assign experienced staff who will dedicate their efforts to advance the design in an efficient and timely manner, using a comprehensive project work plan and schedule. With this in mind, VA has assembled a project team who can fulfill all of these goals. The core VA team will be comprised of experienced individuals who will be dedicated to the assignment from start to finish participating in all aspects of the work.

The Project Manager and primary contact person for the VA Team will be **Jeff Wilkerson, P.E.** Jeff will provide overall project management and direction for this project. Jeff is a licensed engineer in the State of California with over 11 years of professional experience with a broad background in civil and transportation design. He clearly understands the basic elements of a successful project: good planning, persistent management, and quality work. He has managed or served as Project Engineer for a number of engineering design projects, similar in scope and nature to the proposed project. Jeff is more than qualified to assemble the appropriate technical capabilities from the proposed team of VA personnel and qualified sub-consultants, supervise technical tasks, track costs, monitor schedules and milestones, prepare status reports, and manage critical path activities as required to maintain the project's budget and schedule.

Specifically, Jeff's project management and engineering design experience includes the following significant projects:

- **Victoria Street Rehabilitation; City of Costa Mesa**
- **Howard Way, Century Place and 16th Street Roadway Rehabilitation; City of Costa Mesa**
- **17th St/Tustin Ave and Harbor Blvd/Wilson St Intersection Improvements; City of Costa Mesa**
- Fiscal Year 2005/2006 Street Rehabilitation Program; City of Laguna Beach
- **Jamboree Road Widening; City of Newport Beach**
- Dover Drive Sidewalk Improvements; City of Newport Beach
- Lincoln Avenue Widening and Beautification; City of Anaheim
- **Smoketree Lane Improvements; City of Irvine**
- **Culver Drive and Walnut Avenue Intersection Improvements; City of Irvine**
- **Oso Parkway Widening; City of Mission Viejo**
- San Juan Creek Road Widening; City of San Juan Capistrano
- Free Right Turn Lane at Fred Waring Drive and Highway 111; City of Palm Desert
- Cactus Avenue Widening; City of Rialto

Note: Projects in bold are listed in Section III – Similar Experience and References

Jeff will be supported by **Mohammad Heiat, P.E.** (Principal in Charge/Quality Control Supervisor). Mohammad is a Registered Engineer in the State of California with over 30 years of professional civil and transportation engineering experience. He has successfully overseen and managed numerous types of transportation planning and design improvement projects that required extensive analysis to determine cost-effective recommendations to improve traffic operations. **Mohammad is familiar with City design standards and procedures and is recently oversaw the Howard Way, Century Place and 16th Street rehabilitation project; Victoria Street rehabilitation project and 17th Street/Tustin Avenue and Harbor Boulevard/Wilson Street intersection improvements project.** He will oversee project tasks to ensure that proper resources are provided to complete the project on time and within budget and that precise, quality design plans and construction documents are submitted to the City.



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TEAM MEMBERS QUALIFICATIONS

The team members selected to work on this project have extensive experience individually and as a team in providing the anticipated design services. Table 1 below provides a summary of each individual's training, credentials, years of professional experience, proof of California professional licenses required to perform the scope and specifications of this project, and demonstrated experience working on similar projects. All team members will be available for the duration of the proposed contract and will provide the necessary resources to successfully complete all project tasks on time and within budget. No person designated as "key" to the project will be removed or replaced without the prior written concurrence of the City.

TABLE 1 - TEAM MEMBERS QUALIFICATIONS SYNOPSIS					
Name	Role	Years Experience	Degree	California License Type/No./Exp.	Related Experience
Key Staff/ Members					
Mohammad Helat VA Consulting	Principal in Charge / Quality Control Supervisor	30	BS, MS	PE - C45776 Exp 12/31/12	✓
Jeff Wilkerson VA Consulting	Project Manager	11	BS, MS	PE - C63466 Exp 09/30/12	✓
Butch Austinson VA Consulting	Survey / Right of Way Eng	35	AS	PLS - LS5394 Exp 09/30/12	✓
Joe Samaha VA Consulting	Street Design	6	BS	PE - C77992 Exp 06/30/13	✓
Keith Rutherford VA Consulting	Traffic Design	25	BS, MS	TE - TR1647 Exp 09/30/12	✓
Dan Villines VA Consulting	Drainage Design	20	BS	PE - C55210 Exp 06/30/12	✓
Nahid Heidarbaghi VA Consulting	Utilities Coordination	14	BS	PE - C67658 Exp 06/30/12	✓
Ross Khabani Willdan	Geotechnical / Materials Report	30	MS	PE - C37156 GE - C2202 Exp 06/30/12	✓
Jlm Mihd Kana Pipeline	Potholing	23			✓
Support Staff					
Alisha Flores VA Consulting	Street Design	5	BS	PE - C76769 Exp 12/31/12	✓
Marc Violett VA Consulting	Traffic Design	7	BS	PE - C73486 Exp 12/31/12	✓
Tim Eich VA Consulting	Survey / Right of Way Eng	6	BS		✓

A resume for each of the key team members is provided in the Appendix of this proposal to demonstrate their related professional skills and experience on projects similar in size and complexity to the proposed project. It is their collective experience that will assure City staff that the project will be handled with professionalism and efficiency. In addition to the provided individuals, the VA Team has ample support staff to assist in the completion of work and accelerate the project schedule, if needed.

SIMILAR EXPERIENCE AND REFERENCES





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III. SIMILAR EXPERIENCE AND REFERENCES

Listed below are similar projects illustrating the VA Team's skill and experience in providing professional engineering services for completion of roadway and intersection improvements. The City is welcomed to contact the provided references for an objective testimonial of the VA Team's capabilities and quality of work.

17TH ST/TUSTIN AVE AND HARBOR BLVD/WILSON ST INTERSECTION IMPROVEMENTS

Costa Mesa, California

VA Consulting provided civil and traffic engineering and topographic surveying services to prepare PS&E for intersection capacity and aesthetic improvements at the 17th Street/Tustin Avenue and Harbor Blvd./Wilson Street intersections. Project capacity improvements at 17th Street/Tustin Avenue included exclusive right-turn lanes on the eastbound and northbound approaches and a far-side bus turn-out on eastbound 17th Street. The project improvements at this location also included decorative crosswalks across all approaches of the intersection, new curb returns and ADA-compliant access ramps, new sidewalk and tree wells, raised medians with landscaping and irrigation systems, and new street lighting. Improvements at Harbor Boulevard and Wilson Street included an exclusive westbound right-turn lane including retaining wall design. VA prepared all street improvement plans for these projects including roadway plan and profiles, detail sheets, traffic signal modification, signing and striping, and street lighting. **NUVIS** prepared landscaping and irrigation plans for both projects and **Willdan** provided geotechnical services for each project.

Key Staff: Keith Rutherford; Mohammad Heiat; Jeff Wilkerson; Marc Violett; Ross Khiabani; Bob Stone

Client:

City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92626

Reference:

David Cho. (714) 754-5017
dcho@ci.costa-mesa.ca.us

Project Status:

Completed in 2010

Project Cost:

\$993,000

Services Provided:

Topographic Survey/Mapping
Street Widening
Raised Median Design
Private Property Improvements
Landscaping and Irrigation
Signing / Striping
Traffic Signal Modification
Street Lighting Plan Preparation
Utilities Coordination

VICTORIA STREET REHABILITATION

Costa Mesa, California

VA Consulting provided civil engineering and topographic surveying services for the rehabilitation of roadway pavement for Victoria Street from Harbor Boulevard to the Santa Ana River (westerly City boundary - approximately 9,800 LF). There are several signalized intersections within the project limits including intersections with Harbor Boulevard, Maple Avenue, Pomona Avenue, Placentia Avenue, National Avenue, American Avenue, Canyon Drive, and Victoria Place/Valley Road. The scope of improvements included pavement rehabilitation, reconstruction/rehabilitation of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, detailed design modifications to improve nuisance flow drainage problems and providing wheel chair ramps (WCR) to meet ADA requirements. VA also prepared separate signing and striping plans and traffic control plans for implementation of the project improvements. **Willdan** provided geotechnical services for the project.

Key Staff: Mohammad Heiat; Jeff Wilkerson; Keith Rutherford; Ross Khiabani

Client:

City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92626

Reference:

Fariba Fazeli, (714) 754-5378
ffazeli@ci.costa-mesa.ca.us

Project Status:

Design Completed in 2011

Project Cost:

\$2.5 million

Services Provided:

Topographic Survey/Mapping
Street Reconstruction
Pavement Rehabilitation
ADA Ramps
Drainage Design
Signing/Striping/Traffic Control
Utilities Coordination



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HOWARD WAY, CENTURY PLACE AND 16TH STREET

Costa Mesa, California



VA Consulting provided engineering design services for the rehabilitation and reconstruction of Howard Way, Century Place, and 16th Street in the City of Costa Mesa. Project improvements will include pavement reconstruction, reconstruction of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, and providing wheel chair ramps (WCR) to meet

ADA requirements. Design plans will comply with the latest edition of Caltrans, Green Book, APWA and City Standards.

Key Staff: Mohammad Heiat; Jeff Wilkerson; Keith Rutherford

Client:

City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92626

Reference:

Fariba Fazeli, (714) 754-5378
ffazeli@ci.costamesa.ca.us
Maher Nawar, (714) 754-5248

Project Status:

Design Completed in 2009

Project Cost:

\$820,000

Services Provided:

Topographic Survey
Base Map Preparation
Street Reconstruction
Pavement Rehabilitation
Signing / Striping
Utilities Coordination
Agency Coordination

SMOKETREE LANE IMPROVEMENTS

Irvine, California



VA Consulting provided engineering design services for this street widening improvement project at the intersection of Smoketree Lane and Jeffrey Road in Irvine. This project was coordinated with on-going construction improvements for the City's Jeffrey Road Grade Separation Project at the SCRRA (Metrolink) railroad tracks and required a fast track schedule. The project features included field design survey,

roadway widening on Smoketree Lane to provide exclusive right and left-turn lanes at Jeffrey Road, right-of-way engineering, new traffic signal installation, signing and striping improvements, concrete bus pad installation, geotechnical and hydrology analysis, utility coordination and potholing, landscaping and irrigation system improvements and traffic control plans. Coordination was required with the Irvine Unified School District to acquire right-of-way for the project. As a member of the VA design team, NUVIS prepared the landscaping and irrigation system improvement plans.

Key Staff: Keith Rutherford; Mohammad Heiat; Marc Violet; Bob Stone

Client:

City of Irvine
6427 Oak Canyon, Bldg 1
Irvine, CA 92623-9575

Reference:

Steve Olo, (949) 724-7562
sollo@ci.irvine.ca.us

Project Status:

Completed in 2009

Project Cost:

\$700,000

Services Provided:

Topographic Survey
Roadway Improvements
Traffic Signal Design
Signing and Striping
Concrete Bus Pad Installation
Landscape and Irrigation Design
Plans and Specifications
Construction Documents
Right of Way Engineering
Traffic Control
Utilities Coordination



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CULVER DRIVE AND WALNUT AVENUE INTERSECTION IMPROVEMENTS

Irvine, California



VA Consulting, as part of CivilSource Team, prepared final plans for Culver Drive and Walnut Avenue Intersection Improvement Project in City of Irvine. This project addresses operational issues (such as lack of bus turnouts) and roadway capacity issues (insufficient left turn storage) contributing to long queues and lengthy delays. This Project includes the widening the easterly side of

Culver Drive from Walnut Avenue intersection to Scottsdale Drive providing a fourth northbound lane; modification of raised median on Culver Drive to extend the length of southbound left turn storage lanes and close existing left turn openings; widening of westbound (northerly side) on Walnut Avenue from Culver Drive intersection to approximately 500 feet to the west; construction and reconstruction of raised median on Walnut Avenue east and west of Culver Drive and restripe each approach to provide right turn lanes at the intersection; irrigation and landscaping modifications; construction of ADA compliant sidewalks, bus stops, and wheelchair ramps; and traffic signal modification to Walnut-Culver intersection, Culver-Scottsdale intersection and Walnut and Franciscan Street intersection.

Key Staff: Keith Rutherford; Mohammad Heiat; Jeff Wilkerson; Marc Violett; Butch Austinson

Client:

City of Irvine DPW
6427 Oak Canyon, Building 1
Irvine, CA 92623

Reference:

Steve Olo, (949) 724-7562
Kirk Street, (949) 724-7554

Project Status:

Design completed in 2010
Currently under construction

Project Cost:

\$2.3 Million

Services Provided:

- 3D Laser Design Survey
- Street / Median Reconstruction
- Pavement Rehabilitation
- ADA Compliant Sidewalk, Bus Stop & Ramp Upgrades
- Traffic Signal Modifications
- Signing / Striping
- PS&E Preparation
- Utilities Coordination
- Traffic Control Design
- Landscape/Irrigation Design
- Right of Way Engineering
- Construction Support

OSO PARKWAY ROADWAY WIDENING IMPROVEMENTS

Mission Viejo, California



VA Consulting is currently preparing final plans for widening improvements on Oso Parkway between the I-5 freeway and County Club Drive. VA prepared a traffic capacity and operation analysis of widening alternatives and recommended adding one lane in each direction on Oso Parkway and modifying signals at County Club and Montanoso Drives.

The widening improvements will require the acquisition of additional right of way on both sides of the street and relocation of several utilities along the existing sidewalks. The box culvert for Oso Creek will be lengthened to accommodate the new lanes in each direction. The roadway widening will also require new retaining walls along the eastbound side of Oso Parkway between the new retail development at the northbound off ramp and County Club Drive.

Key Staff: Mohammad Heiat; Jeff Wilkerson; Keith Rutherford; Marc Violett; Butch Austinson

Client:

City of Mission Viejo
200 Civic Center
Mission Viejo, CA 92619

Reference:

Richard Schlesinger
(949) 470-3079
rschlesinger@cityofmissionviejo.org

Project Status:

In Progress – Started in 2009

Project Cost:

\$4 Million

Services Provided:

- Design Survey
- ROW Engineering
- Traffic & Operation Analysis
- Concept Plan Design
- Road/Median Improvements
- Traffic Signal & Striping Design
- Culvert Design
- Retaining Wall Design
- PS&E Preparation
- Utility Relocation



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JAMBOREE ROAD WIDENING IMPROVEMENTS
Newport Beach and Irvine, California



VA Consulting is providing consultant engineering design services to the City of Newport Beach Public Works Department for widening of Jamboree Road in the Cities of Newport Beach and Irvine. The project involves widening improvements along the easterly side of Jamboree Road between Bristol Street North and Fairchild Road, at the MacArthur Boulevard intersection to provide one additional

northbound through lane and one additional southbound left turn lane on Jamboree Road. Services include preparing conceptual geometric and landscape plans, cost estimates, traffic weaving and operational analysis, environmental documentation, right-of-way mapping, and final PS&E. Final PS&E services include topographic design survey; preparation of roadway plans and profile drawings for roadway widening, pavement rehabilitation, retaining wall plan, offsite grading plan, landscaping and irrigation plans, signing and striping plans, traffic signal modification plans, construction cost estimates, and technical specifications. OPC is providing right of way appraisal and acquisition services and NUVIS is preparing landscaping and irrigation plans for the project.

Key Staff: Mohammad Heiat; Jeff Wilkerson; Keith Rutherford; Marc Violett; Butch Austinson; Bob Stone

Client:

City of Newport Beach
3300 Newport Boulevard
Newport Beach, CA 92663

Reference:

Andy Tran, (949) 644-3315
atran@city.newport-beach.ca.us

Project Status:

In Progress – Started in 2008

Project Cost:

\$1.7 Million

Services Provided:

- Design Survey
- ROW Engineering
- Traffic & Operation Analysis
- Environmental Documentation
- Concept Plan Design
- Road/Median Improvements
- Pavement Rehabilitation
- Traffic Signal Modifications
- Signing and Striping Design
- Retaining Wall Design
- Off-Site Grading Plan
- Landscape / Irrigation Design
- PS&E Preparation
- Utility Relocation

WILLDAN

ORANGE, BEAR, PLUMER AND HAMILTON STREETS

Client: City of Costa Mesa
Reference: Fariba Fazeli, Project Manager, (714) 754-5378

Geotechnical investigation and alternative pavement design for street rehabilitation. Alternative pavement sections, AC/AB, ARHM/AC/AB, AC/AB/Stabilized Base, and AC Overlay options.

LA MIRADA BOULEVARD PAVEMENT REHABILITATION

Client: City of La Mirada
Reference: Gary Sanui, Project Manager, (562) 902-2373

Geotechnical investigation and pavement coring, laboratory testing and design of alternative pavement sections for proposed rehabilitation

SANTA ANITA AVENUE PAVEMENT REHABILITATION

Client: City of Arcadia
Reference: Tim Kelleher, Project Manager, (626) 574-5484

Willdan provided coring and sampling of existing pavement and subgrade, laboratory testing and design of new pavement section for the Santa Anita Avenue pavement rehabilitation project.



January 20, 2012

TECHNICAL PROPOSAL
City of Costa Mesa – Transportation Services
Professional Engineering Services for
HARBOR BOULEVARD AND VICTORIA STREET
INTERSECTION IMPROVEMENTS

OVERLAND, PACIFIC AND CUTLER

HEIL AVENUE WIDENING PROJECT

Client: City of Huntington Beach
Reference: Tina Krause, 714.374.1529
OPC Work Completed: 2008 | OPC Fees: \$65,000



The project constructed street improvements necessary to widen Heil Avenue to its full 80-foot secondary arterial street width. The widened street provided an additional through-lane in each direction. OPC provided acquisition and relocation to the City which included 20 acquisitions, (4 part-takes, 3 full-takes and 13 temporary construction easements) and the relocation of three residential owner-occupants.

NEWPORT BOULEVARD INTERSECTION IMPROVEMENT PROJECT

Client: City of Costa Mesa
Reference: Dave Sorge, 714.754.5183
OPC Work Completed: 2008 | OPC Fees: \$22,000



OPC performed turnkey right of way services consisting of real estate appraisal, acquisition, title clearance and escrow coordination. OPC also prepared and ascertained Caltrans Right of Way Certification. The project involved the acquisition of two complex partial takings from retail properties at the major intersection of Newport Boulevard and 17th Street.

NUVIS

OLIVE AVENUE STREETSCAPE IMPROVEMENT

Client: City of Burbank
Contact: Scott McGookin, City of Burbank, (818) 238-5197

Conceptual master plan and design alternatives including traffic and landscape improvements for three (3) miles of streetscape along Olive Avenue between the Media Center and Downtown Burbank. Community Meeting Facilitation and incorporation of Complete Streets and LEED design principles.

STREETSCAPE CALMING INTERSECTIONS

Client: Maquire Properties
Contact: Jamie Anderson, Austin Foust Associates, 714-667-0496

Conceptual plans, construction documents, and construction observation for traffic calming and streetscape beautification of 15 intersections. Project features water efficient plantings irrigated with drip system using LEIT solar controllers.

KEY TEAM MEMBERS' RESUMES



MOHAMMAD HEIAT, P.E.

Principal in Charge



PROFESSIONAL PROFILE

Mohammad Heiat offers 30 years of civil engineering experience with extensive emphasis in transportation and water resources for a broad range of public works and private residential and commercial development projects. His experience includes an extensive list of capital improvement facilities design, roadway and intersection improvement plans, master plans, runoff management plans, and drainage structures. He has managed and been Project Manager on the preparation of plans, specifications, and estimates for a long list of public works projects with emphasis on highway and street design, water and sewer systems, and drainage and flood control facilities.

PROJECT HISTORY

Victoria Street Rehabilitation; Costa Mesa, California *City of Costa Mesa*

Principal-in-Charge/Quality Control Supervisor overseeing civil engineering and topographic surveying services for the rehabilitation of roadway pavement for Victoria Street from Harbor Boulevard to the Santa Ana River (westerly City boundary - approximately 9,800 LF). There are several signalized intersections within the project limits including intersections with Harbor Boulevard, Maple Avenue, Pomona Avenue, Placentia Avenue, National Avenue, American Avenue, Canyon Drive, and Victoria Place/Valley Road. The scope of improvements included pavement rehabilitation, reconstruction/rehabilitation of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, detailed design modifications to improve nuisance flow drainage problems and providing wheel chair ramps (WCR) to meet ADA requirements. VA also prepared separate signing and striping plans and traffic control plans for implementation of the project improvements.

17th Street/Tustin Avenue and Harbor Blvd./Wilson Street Intersections Improvements; Costa Mesa, California *City of Costa Mesa*

Principal-in-Charge/Quality Control Supervisor overseeing the preparation of PS&E for intersection capacity and aesthetic improvements at the 17th Street/Tustin Avenue and Harbor Blvd./Wilson Street intersections. Project capacity improvements at 17th Street/Tustin Avenue included exclusive right-turn lanes on the eastbound and northbound approaches and a far-side bus turn-out on eastbound 17th Street. The improvements at this location also included decorative crosswalks across all approaches of the intersection, new curb returns and ADA-compliant access ramps, new sidewalk and tree wells, raised medians with landscaping and irrigation systems, and new street lighting. Improvements at Harbor Boulevard and Wilson Street included an exclusive westbound right-turn lane including retaining wall design. VA prepared all street improvement plans for these projects including roadway plan and profiles, detail sheets, traffic signal modification, signing and striping, and street lighting.



EDUCATION

B.S., Civil Engineering
University of Colorado, Denver 1978

M.S., Civil Engineering
University of Colorado, Denver, 1981

REGISTRATIONS / LICENSES

Professional Engineer, 1991
California No. 46292

Professional Engineer, 1987
Colorado No. 25212

MEMBERSHIPS / AFFILIATIONS

ASCE

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

30 Years

YEARS WITH FIRM

20 Years

MOHAMMAD HEIAT, P.E.

Principal in Charge



Howard Way, Century Place and 16th Street Roadway Rehabilitation; Costa Mesa, California *City of Costa Mesa*

Principal-in-Charge overseeing engineering design services for the rehabilitation and re-construction of Howard Way, Century Place, and 16th Street. Project improvements included pavement reconstruction, reconstruction of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, and providing wheel chair ramps (WCR) to meet ADA requirements. Design plans comply with the latest edition of Caltrans, Green Book, APWA and City of Costa Mesa Standards.

Smoketree Lane and Jeffrey Road Intersection Improvements; Irvine, California *City of Irvine*

Principal-in-Charge overseeing street widening improvements at the intersection of Smoketree Lane and Jeffrey Road in the City of Irvine. Services included field design survey, roadway widening on Smoketree Lane to provide exclusive right and left-turn lanes at Jeffrey Road, right-of-way engineering, new traffic signal installation, signing and striping improvements, concrete bus pad installation, geotechnical and hydrology analysis, utility coordination and potholing, and landscaping and irrigation system improvements. VA also prepared separate traffic control plans for construction of the project improvements.

Culver Drive and Walnut Avenue Intersection Improvements; Irvine, California *City of Irvine*

Principal in Charge for VA, as part of the Civil Source Team, for engineering design services for the Culver Drive/Walnut Avenue Intersection Improvements Project for the City of Irvine Public Works Department. The project involved widening improvements along the eastern side of Culver Drive between Walnut Avenue and Scottsdale, widening improvements along the western side of Walnut Avenue between Culver Drive and 500 feet west of Culver Drive, construction of raised medians, driveways, bus turnouts, access ramps, utility relocations and offsite grading. Services included final PS&E and right-of-way mapping. Final PS&E services included a design topographic survey; preparation of roadway plans and profile drawings for roadway widening, pavement rehabilitation, offsite grading plan, landscaping plan, signing and striping plans, intersection traffic signal plans, and technical specifications.

Oso Parkway Roadway Widening; Mission Viejo, California *City of Mission Viejo*

Project Manager for the preparation of preliminary and final design plans for widening improvements on Oso Parkway between the I-5 freeway and County Club Drive. A traffic capacity and operation analysis was prepared for widening alternatives and the recommendation was to add one lane in each direction on Oso Parkway and modify the signals at County Club and Montanoso Drives. The widening improvements require the acquisition of additional right of way on both sides of the street and relocation of several utilities along the existing sidewalks. The box culvert for Oso Creek is being lengthened to accommodate the new lanes in each direction.

Lincoln Avenue Widening and Beautification; Anaheim, California *City of Anaheim*

Project Manager for engineering design and surveying services for the widening and beautification of Lincoln Avenue between State College Boulevard and Sunkist Street. The project improved Lincoln Avenue to a six-lane divided arterial by widening the north side of the roadway to provide 3 westbound through lanes. The project included construction of median islands and landscaping improvements along the median islands and construction of retaining curb/wall along the northerly parkway.

JEFF WILKERSON, P.E.

Project Manager



PROFESSIONAL PROFILE

Jeff Wilkerson has over 11 years of professional engineering experience. His working knowledge includes the preparation of plans, specifications and estimate packages for roadway improvements, site improvements, water and sewer systems, and structural design projects for numerous public and private agencies. His experience also includes reviewing water and sewer plans for agencies to check compliance and construction feasibility.

PROJECT HISTORY

Victoria Street Rehabilitation; Costa Mesa, California *City of Costa Mesa*

Project Manager for civil engineering and topographic surveying services for the rehabilitation of roadway pavement for Victoria Street from Harbor Boulevard to the Santa Ana River (westerly City boundary - approximately 9,800 LF). The scope of improvements included pavement rehabilitation, reconstruction/ rehabilitation of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, detailed design modifications to improve nuisance flow drainage problems and providing wheel chair ramps (WCR) to meet ADA requirements.

Howard Way, Century Place and 16th Street; Costa Mesa, CA *City of Costa Mesa*

Project Manager for engineering design services to rehabilitate and reconstruct Howard Way, Century Place, and 16th Street. Project improvements included pavement reconstruction, reconstruction of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, and providing wheel chair ramps (WCR) to meet ADA requirements. Design plans complied with the latest edition of Caltrans, Green Book, APWA and City of Costa Mesa Standards.

17th Street/Tustin Avenue and Harbor Blvd./Wilson Street Intersections Improvements; Costa Mesa, California *City of Costa Mesa*

Project Engineer for the preparation of PS&E for intersection capacity and aesthetic improvements at the 17th Street/Tustin Avenue and Harbor Blvd./Wilson Street intersections. Project capacity improvements at 17th Street/Tustin Avenue included exclusive right-turn lanes on the eastbound and northbound approaches and a far-side bus turn-out on eastbound 17th Street. The improvements at this location also included decorative crosswalks across all approaches of the intersection, new curb returns and ADA-compliant access ramps, new sidewalk and tree wells, raised medians with landscaping and irrigation systems, and new street lighting. Improvements at Harbor Boulevard and Wilson Street included an exclusive westbound right-turn lane including retaining wall design. VA prepared all street improvement plans for these projects including roadway plan and profiles, detail sheets, traffic signal modification, signing and striping, and street lighting.



EDUCATION

B.S., Civil Engineering
University of California, Irvine 1998

M.S., Civil and Structural Engineering
University of California, Irvine, 2000

REGISTRATIONS / LICENSES

Professional Engineer, 2003
California No. 63466

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

11 Years

YEARS WITH FIRM

11 Years

JEFF WILKERSON, P.E.

Project Manager



Jamboree Road Widening; Newport Beach, California

City of Newport Beach

Project Manager for engineering design services for the Jamboree Road Widening Project for the City of Newport Beach Public Works Department. The project involves widening improvements along the eastern side of Jamboree Road between Bristol Street North and Fairchild Road, at the MacArthur Boulevard intersection to provide one additional northbound thru lane and one additional southbound left turn lane on Jamboree Road. Services will include preparing conceptual landscape and engineering plans, environmental documentation, right-of-way mapping, and final PS&E. Final PS&E services will include a design topographic survey; preparation of roadway plans and profile drawings for roadway widening, pavement rehabilitation, offsite grading plan, landscaping plan, signing and striping plans, intersection traffic signal plans, and technical specifications.

Oso Parkway Roadway Widening; Mission Viejo, California

City of Mission Viejo

Senior Project Engineer for the preparation of preliminary and final design plans for widening improvements on Oso Parkway between the I-5 freeway and County Club Drive. The widening improvements will require the acquisition of additional right of way on both sides of the street and relocation of several utilities along the existing sidewalks. The box culvert for Oso Creek will be lengthened to accommodate the new lanes in each direction.

Culver Drive and Walnut Avenue Intersection Improvements; Irvine, California

City of Irvine

Civil Task Project Manager to provide engineering design services for widening improvements along the eastern side of Culver Drive between Walnut Avenue and Scottsdale, widening improvements along the western side of Walnut Avenue between Culver Drive and 500 feet west of Culver Drive, construction of raised medians, driveways, bus turnouts, access ramps, utility relocations and offsite grading. Services included a design topographic survey; right of way mapping, preparation of roadway plans and profile drawings for roadway widening, pavement rehabilitation, offsite grading plan, landscaping plan, signing and striping plans, intersection traffic signal plans, and technical specifications.

San Juan Creek Road Widening Project; San Juan Capistrano, California

City of San Juan Capistrano

Civil Design Task Manager for street widening improvements along San Juan Creek Road between Camino Capistrano and Valle Road as well as local widening improvements on Camino Capistrano and Valle Road to relieve congestion and provide for pedestrian and bicycle traffic. Services include surveying; preparation of geotechnical report; design of street improvements including asphalt concrete pavement, curb and gutter and sidewalk, drainage modifications, utility relocation/removal, retaining wall, traffic signals, signing and striping improvements, preparation of specifications and an Engineer's estimate of probable construction costs; Caltrans encroachment permit application submittal and processing including preparation of Design Exception Reports (Fact Sheets) and PEERS.

Lincoln Avenue Widening and Beautification; Anaheim, California

City of Anaheim

Project Engineer to provide design services for the widening and beautification of Lincoln Avenue between State College Boulevard and Sunkist Street. The project will improve Lincoln Avenue to a six-lane divided arterial by widening the north side of the roadway to provide 3 westbound through lanes. The project also included construction of median islands, landscaping improvements along the median islands and construction of retaining curb/wall along the northerly parkway.

BUTCH AUSTINSON, P.L.S.

Survey and Right of Way Engineering



PROFESSIONAL PROFILE

Butch Austinson has over 35 years of professional experience in land surveying and mapping. He has been in responsible charge on numerous public works and private development projects, including large scale boundary surveys, right-of-way engineering, photogrammetric control surveys, GPS control, and topographic surveys. His experience includes project management, office and field coordination, title and deed analysis, boundary analysis, calculations, 3D scanning, mapping, modeling, recordation process and construction staking. He is highly knowledgeable in the preparation of ALTA, Legal Descriptions, Records-of-Survey, Lot Line Adjustments, Corner Records, Parcel Maps, Tentative Tract Maps, and Final Tract Maps.

PROJECT HISTORY

Victoria Street Improvements, Costa Mesa, California

City of Costa Mesa

Survey Manager responsible for the design surveys and monument perpetuation services for the City of Costa Mesa Victoria Street Improvement project. The project area included a total length of approximately 35,000 linear feet of roadway improvements.

Howard Way, Century Place and 16th Street Roadway Rehabilitation; Costa Mesa, California

City of Costa Mesa

Manager of Survey & Mapping activities for the rehabilitation and reconstruction of Howard Way, Century Place, and 16th Street. Project improvements included pavement reconstruction, reconstruction of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, and providing wheel chair ramps (WCR) to meet ADA requirements. Survey services included researching and reviewing existing survey control and mapping data from the City, and County for right-of-way information adjacent to or relevant to the project's design; providing project control, performing ground topographic survey and creating topographic mapping. The topographic base map depicted the existing conditions together with the right-of-way boundary/centerline, property lines/addresses, culture, easements and stationing.

Smoketree Lane and Jeffrey Road Improvements; Irvine, CA

City of Irvine

Manager of Survey & Mapping activities for street widening improvements at the intersection of Smoketree Lane and Jeffrey Road in the City of Irvine. Responsible for establishing local survey control, surveying cross sections and site details, and preparing base topographic mapping of the horizontal layout and vertical dimensions required for the roadway design.



EDUCATION

A.S.

Santa Ana Community College

REGISTRATIONS / LICENSES

Professional Land Surveyor, 1986
California No. LS5394

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

35 Years

YEARS WITH FIRM

15 Years

BUTCH AUSTINSON, P.L.S.

Survey and Right of Way Engineering



Beach Boulevard and Warner Avenue Widening; Huntington Beach, California

City of Huntington Beach

Manager of Survey and Mapping activities for widening improvements to the intersection of Beach Boulevard and Warner Avenue which will include adding dedicated right turn lanes on either the north and westbound approaches or the eastbound and westbound approaches. Services include performing 3D laser scanning for preparation of the project base map; and preparation of right of way maps showing adjacent property ownership and indicating the amount of right of way take required from each parcel together with any required temporary construction easements.

Warner Avenue Widening Improvements; Santa Ana, CA

City of Santa Ana c/o The Planning Center

Manager of Survey and Mapping activities for the widening of Warner Avenue from Main Street to Grand Avenue in the City of Santa Ana, a distance of approximately one mile. Consistent with the City's General Plan Circulation element and the County of Orange's Master Plan of Arterial Highways the roadway is to be widened from four to six lanes. Responsible for establishing local survey control, surveying cross sections and site details, and preparing base topographic mapping of the horizontal layout and vertical dimensions required for the roadway design. The right of way documentation was comprised or assembling property details for the roadway segment, mapping this right of way information and quantifying the potential impacts to local ownership in terms of property acquisition and easement requirements for the proposed roadway improvements.

Oso Parkway Roadway Widening; Mission Viejo, California

City of Mission Viejo

Manager of Survey and Mapping activities for widening improvements on Oso Parkway between the I-5 freeway and County Club Drive. The widening improvements require the acquisition of additional right of way on both sides of the street and relocation of several utilities along the existing sidewalks. The box culvert for Oso Creek is being lengthened to accommodate the new lanes in each direction.

Bus Rapid Transit Project – Bus Stop Enhancements, Orange County, California

Orange County Transportation Authority c/o IBI Group

Manager of Survey and Mapping responsible for managing the office staff in preparation of right-of-way determination, legal descriptions and plats, encroachment permit documents, utilities research, base mapping and civil engineering specifications. Also managed the survey field crews develop site control and perform topographic surveys for this Bus Rapid Transit Project that planned, analyzed and designed 109 new and modified bus stops.

Jamboree Road Widening; Newport Beach, California

City of Newport Beach

Manager of Survey and Mapping activities for widening improvements along the eastern side of Jamboree Road between Bristol Street North and Fairchild Road, at the MacArthur Boulevard intersection for the City of Newport Beach Public Works Department. The project involves providing one additional northbound thru lane and one additional southbound left turn lane on Jamboree Road. Services include performing a field topographic survey to locate structures and visible utility appurtenances, and create a detailed topographic surface model for use in the design; and preparing metes and bounds legal description/plat exhibit for right-of-way acquisitions and temporary construction easements for three (3) parcels.

KEITH RUTHERFURD, T.E.

Traffic Design



PROFESSIONAL PROFILE

Keith Rutherford offers over 24 years experience in transportation and traffic engineering with a broad background in transportation analysis and the preparation of design plans. He has performed technical analyses and studies, prepared various reports, and designed improvement plans for numerous private and public works projects. Specific transportation engineering experience includes: road alignment studies; highway and street improvements design including geometric studies, interchanges, and ramps; traffic engineering including site impact studies, parking and bikeway studies, bus operations, and signing, striping, traffic signal, and traffic control plan design.

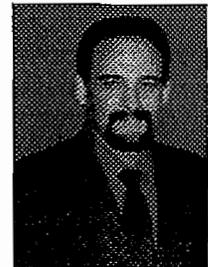
PROJECT HISTORY

17th Street/Tustin Avenue and Harbor Blvd./Wilson Street Intersections Improvements; Costa Mesa, California *City of Costa Mesa*

Project Manager for the preparation of PS&E for intersection capacity and aesthetic improvements at the 17th Street/Tustin Avenue and Harbor Blvd./Wilson Street intersections. Project capacity improvements at 17th Street/Tustin Avenue included exclusive right-turn lanes on the eastbound and northbound approaches and a far-side bus turn-out on eastbound 17th Street. The improvements at this location also included decorative crosswalks across all approaches of the intersection, new curb returns and ADA-compliant access ramps, new sidewalk and tree wells, raised medians with landscaping and irrigation systems, and new street lighting. Improvements at Harbor Boulevard and Wilson Street included an exclusive westbound right-turn lane including retaining wall design. VA prepared all street improvement plans for these projects including roadway plan and profiles, detail sheets, traffic signal modification, signing and striping, and street lighting.

Victoria Street Rehabilitation; Costa Mesa, California *City of Costa Mesa*

Traffic Design Engineer for the rehabilitation of roadway pavement for Victoria Street from Harbor Boulevard to the Santa Ana River (westerly City boundary - approximately 9,800 LF). There are several signalized intersections within the project limits including intersections with Harbor Boulevard, Maple Avenue, Pomona Avenue, Placentia Avenue, National Avenue, American Avenue, Canyon Drive, and Victoria Place/Valley Road. The scope of improvements included pavement rehabilitation, reconstruction/ rehabilitation of damaged curb and gutter, cross gutters, sidewalks, driveways and driveway approaches, detailed design modifications to improve nuisance flow drainage problems and providing wheel chair ramps (WCR) to meet ADA requirements. VA prepared separate signing and striping plans and traffic control plans for implementation of the project improvements.



EDUCATION

B.S., Administrative Studies
University of California, Riverside
1983

M.S., Civil/Transportation Engineering
University of California, Irvine, 1986

REGISTRATIONS / LICENSES

Registered Traffic Engineer, 1992
California No. TR001647

MEMBERSHIPS / AFFILIATIONS

OCTEC ASCE
ITE

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

24 Years

YEARS WITH FIRM

24 Years

KEITH RUTHERFURD, T.E.

Traffic Design



Alicia and Jeronimo Parkways Intersection Improvements; Mission Viejo, California

City of Mission Viejo

Project Engineer to provide concept planning and design coordination for this project which provided improvements to the intersection of Alicia and Jeronimo Parkways in the City of Mission Viejo. Improvements included providing all approaches to the intersection with dual left-turn lanes, providing three right-turn only lanes, and bus turnouts. As traffic engineer for the project, responsible for the plans, specifications, and estimates for signing and striping and traffic signal plans.

Lincoln Avenue Widening and Beautification; Anaheim, California

City of Anaheim

Traffic Engineer for the preparation for the design and surveying services for the widening and beautification of Lincoln Avenue between State College Boulevard and Sunkist Street. The project improved Lincoln Avenue to a six-lane divided arterial by widening the north side of the roadway to provide 3 westbound through lanes. The project involved construction of median islands and landscaping improvements along the median islands, construction of retaining curb/wall along the northerly parkway, and relocation of electrical vaults.

Culver Drive and Walnut Avenue Intersection Improvements; Irvine, California

City of Irvine

Traffic Task Manager for improvement to the intersection at Culver Drive and Walnut Avenue in Irvine. The project involved widening improvements along the eastern (northbound) side of Culver Drive between Walnut Avenue and Scottsdale, widening improvements along Walnut Avenue from Culver Drive to 500 feet west, construction of raised medians, driveways, bus turnouts, access ramps, signing and striping, and traffic signal modification. Traffic signal modification included video and bicycle detection upgrades. A traffic signal interconnect plan was also prepared to upgrade the project traffic signals to the latest City standard for fiber optic cable. Traffic control plans were prepared for staged project construction that will maintain existing roadway capacity during peak hour conditions for all phases. Project technical provisions and construction cost estimates were prepared for the traffic improvements included in the final project PS&E.

Smoketree Lane and Jeffrey Road Intersection Improvements; Irvine, California

City of Irvine

Project Manager for street widening improvements and traffic signal installation at the intersection of Smoketree Lane and Jeffrey Road in the City of Irvine. Services included field design survey, roadway widening on Smoketree Lane to provide exclusive right and left-turn lanes at Jeffrey Road, right-of-way engineering, new traffic signal installation, signing and striping improvements, concrete bus pad installation, geotechnical and hydrology analysis, utility coordination and potholing, and landscaping and irrigation system improvements. VA also prepared separate traffic control plans for construction of the project improvements.

Dune Palms Road and "A" Street Roadway and Traffic Signal Improvements; La Quinta, California

City of La Quinta

Project Manager for preparation of PS&E for roadway improvements and traffic signal installation at the intersection of Dune Palm's Road and "A" Street in the City of La Quinta. The project provided a new roadway alignment that provides access to both an existing Desert Sands Unified School District facility and a new Redevelopment Agency residential and commercial development. The project included traffic data collection and signal warrant analysis, utility coordination, design survey, concept plan development, legal and plat preparation for R/W and temporary construction easements, and preparation of final PS&E. The improvements at the intersection provided a new 8-phase traffic signal, a bus turn out, catch basin relocation and drainage improvements, and extended and modified raised medians. VA also provided support services to the City during the bid and construction phases of the project.

JOE SAMAHA, P.E., LEED® AP

Street Design



PROFESSIONAL PROFILE

Joe Samaha has over 6 years of professional civil engineering experience. His technical experience includes the preparation of plans, specifications and estimate packages for roadway improvements, site improvements, and water and sewer systems projects for public and private agencies.

PROJECT HISTORY

Jamboree Road Widening; City of Newport Beach, California

Senior Design Engineer for widening improvements along the eastern side of Jamboree Road between Bristol Street North and Fairchild Road, at the MacArthur Boulevard intersection to provide one additional northbound thru lane and one additional southbound left turn lane on Jamboree Road. Services include a design surveys; preparation of roadway plans and profile drawings for roadway widening, pavement rehabilitation, offsite grading plan, landscaping plan, signing and striping plans, intersection traffic signal plans, and technical specifications.

Cactus Avenue Widening; City of Rialto; California

Senior Design Engineer for widening of Cactus Avenue to its ultimate curb-to-curb width of 72 feet between Foothill Boulevard and Etiwanda Avenue. The proposed improvements will join the already improved section of Cactus Avenue north of Foothill Boulevard and south of Etiwanda Avenue intersections. Services include construction of the curb ramps at Rosewood Street and Ramona Drive (southeast corner only) to meet current ADA standards, utility relocations, signing and striping, and construction traffic control.

Palm and Pierson Boulevards; City of Desert Hot Springs, CA

Senior Design Engineer for conceptual design and final engineering services for these downtown City streetscapes as part of a downtown redevelopment plan. The project scope includes enhanced sidewalks, traffic calming, misting canopies, landscaped and lighted medians and parkways, parking lot design, and the rehabilitation and reconstruction of approximately 2 miles of downtown arterial streets.

Dune Palms Road and "A" Street Intersection Improvements; City of La Quinta, California

Senior Design Engineer for preparation of PS&E for roadway improvements and traffic signal installation at the intersection of Dune Palm's Road and "A" Street in the City of La Quinta. The project included traffic data collection and signal warrant analysis, utility coordination, design survey, concept plan development, legal and plat preparation for R/W and temporary construction easements, and preparation of final PS&E. The improvements at the intersection will provide a new 8-phase traffic signal, a bus turn out, catch basin relocation and drainage improvements, and extended and modified raised medians.

EDUCATION

B.S., Civil Engineering
University of Connecticut, Storrs,
Connecticut, 2005

REGISTRATIONS / LICENSES

Professional Engineer, 2010
California No. C77992

PROFESSIONAL ASSOCIATIONS

Leadership in Energy and
Environmental Design (LEED®)
Accredited Professional,
U.S. Green Building Council

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

6 Years

YEARS WITH FIRM

6 Years

DAN VILLINES, P.E.

Drainage Design



PROFESSIONAL PROFILE

Mr. Villines offers more than 20 years of professional civil engineering experience in the technical field of water resources. His experience includes hydraulic and structural analyses for the preparation of design plans, specifications and cost estimates for retaining walls, flood walls, dams, detention basins, water supply, wastewater, and flood control facilities. He has extensive knowledge of computer based hydraulic models for both open canal and piping systems for the purpose of determining cost effective and efficient hydraulic conveyance systems. He has been involved in the structural analysis, design, and construction of several hydraulic based projects in the southern California area.

PROJECT HISTORY

Oso Parkway Roadway Widening; Mission Viejo, California

City of Mission Viejo

Drainage Design Task Manager for widening improvements on Oso Parkway between the I-5 freeway and County Club Drive. The box culvert for Oso Creek is being lengthened to accommodate the new lanes in each direction. Services included performing hydraulic analysis and preparing a drainage study for the proposed improvements; preparing construction plans for modification of the existing Oso Parkway drainage facilities and preparing structural calculations and drawings for the extension of the triple box culvert at Oso Creek and retaining walls required along the alignment of Oso Parkway.

Jamboree Road and I-5 Interchange Widening; Irvine and Tustin, California

City of Irvine c/o IBI Group

Task Leader responsible for hydrology and drainage studies, pump facility modification plans, storm drain plans, water quality management plans and storm water pollution prevention plans for the widening improvements along Jamboree Road at I-5 Freeway.

Avenida Columbo Storm Drain Rehabilitation Project; San Clemente, California

City of San Clemente

Project Manager for the preparation of hydrology and hydraulic analyses to develop alternatives for the replacement of a damaged storm drain facility. Prepared alternatives analysis and summarized in a preliminary design report for review and approval by the City of San Clemente. Services also included the preparation of final plans, specifications, and cost estimates for the preferred storm drain rehabilitation alternative.



EDUCATION

B.S., Civil Engineering
California State Polytechnic
University, Pomona 1990

REGISTRATIONS / LICENSES

Professional Engineer, 1996
California No. C55210

MEMBERSHIPS / AFFILIATIONS

ASCE – Hydrology and Hydraulic
Technical Group

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

20 Years

YEARS WITH FIRM

8 Years

DAN VILLINES, P.E.

Drainage Design



Chapman Avenue, Cannon Street and Crawford Canyon Road Storm Drain Design; Orange, California *City of Orange*

Project Manager for design services to construct storm drain facilities located in Chapman, Cannon and Crawford Canyon Roadways. The project is in a major intersection and is comprised of adding 4 new catch basins and approximately 500 linear feet of storm drain, primarily in Chapman Avenue, to improve the collection and conveyance of storm water runoff.

Heacock Street Bridge Over Perris Valley Storm Drain; Moreno Valley, California *City of Moreno Valley*

Principal-in-Charge of this project to remove and replace the existing Heacock Street Bridge over the Perris Valley Storm Drain Lateral "A" and construction transitional street improvements. The replacement bridge will be four-celled Reinforced Concrete Box accommodating four travel lanes, a continuous median/turn lane, bike lanes and sidewalks. VA's design team services include; CEQA/NEPA documentation, roadway design, structural design, hydraulic analysis, approvals from Caltrans District 8, approvals from Riverside County Flood Control & Water Conservation District and coordination with March Air Force Base, March Joint Powers Authority and adjoining property owners.

Laguna Canyon Road (SR-133) Realignment; Irvine, California *Orange County Resources and Development Management Department*

Project Manager responsible for performing hydrological studies and basin routing analysis; and preparing construction plans based on Caltran's drafting standards.

Tustin Avenue and Rose Drive Grade Separation Project; Orange County, California *OCTA c/o Biggs Cardosa Associates, Inc.*

Drainage Task Manager for the preparation plans, reports and supporting technical studies for the storm drain and water quality portions of OCTA's Tustin Avenue Grade Separation project. Services included the completion of the plans; incorporation of the Tustin/Rose Grade Separation Quality Management System Manual (QMS Manual) procedures; and processing of the plans and their supporting studies with the Orange County Flood Control District (OCFCD) for the portion of the Project that would impact the existing Atwood Channel that is owned by OCFCD.

Chantry Flats Road Repair; Sierra Madre, California *City of Sierra Madre*

Project Manager responsible for preparation of design concept plans and final design services for drainage improvements of Lenan Creek Crossing Chantry Flats Road in the City of Sierra Madre. Lenan Creek is a natural drainage course tributary to Santa Anita Creek which experiences major scour and sediment deposition resulting in the closure of the road during 1999-2000 storm season. The scope of work included hydraulic and sedimentation studies, preparation of concept plan for creek restoration, obtaining permits from ACOE, CDFG and Regional Water Quality Control Board and preparation of construction level plans, specifications and cost estimates for the project.

Cactus Avenue Widening; Rialto, California *City of Rialto*

Drainage/Water Quality Task Manager for the widening of Cactus Avenue between Foothill Boulevard and Etiwanda Avenue in the City of Rialto. The project involves widening the roadway approximately 26 feet on the west side of Cactus Avenue to ultimate width of 72 feet and the installation of curb and gutter along the west side. Responsibilities included preparing a SWPPP including NOI application for the construction phase and a WQMP document consistent with NPDES regulations for the post construction. Based upon VA's site visit, the only drainage structures within project limits are "Bubble Up" catch basins at intersection of Cactus Avenue and Foothill Boulevard. VA will investigate and recommend non-structural and structural BMP alternatives such as gravel or filters at the existing catch basins.

NAHID HEIDARBAGHI, P.E., LEED® AP

Utility Coordination



PROFESSIONAL PROFILE

Nahid Heidarbahi offers over 14 years of professional civil engineering experience in transportation and land development projects. She has extensive experience in utility research and coordination and preparing PS&E packages for roadway and intersection reconstruction, pavement rehabilitation, drainage improvements and land development infrastructure design projects.

PROJECT HISTORY

Lincoln Avenue Widening; Anaheim, CA

City of Anaheim

Design Engineer for the widening and beautification of Lincoln Avenue between State College Boulevard and Sunkist Street. The project will improve Lincoln Avenue to a six-lane divided arterial by widening the north side of the roadway to provide 3 westbound through lanes. The project also included construction of median islands and landscaping improvements along the median islands and construction of retaining curb/wall along the northerly parkway.

Westbound SR-91 Improvements between I-5 and SR-57; Fullerton and Anaheim, CA

Orange County Transportation Authority c/o RBF Consulting

Project Engineer responsible for providing comprehensive utility coordination services for this project. Task involves identifying all existing and proposed wet and dry utilities within the vicinity of the proposed SR-91 that will be widened to the north from SR-57 to I-5. The results of this work will be summarized in terms of the various utility protect-in-place and relocation alternatives and their associated cost, timing and easement implications.

Kraemer Boulevard Grade Separation; Wet Utilities Design Services; Placentia and Anaheim, CA

Orange County Transportation Authority

Project Engineer for the preparation of improvement plans for relocation of 500 linear feet of 12" gravity sewer line, and 900 linear feet of sewer force main; and preparation of cost estimates and specifications for the sewer relocation.

Oso Parkway Roadway Widening; Mission Viejo, CA

City of Mission Viejo

Project Engineer for the preparation of preliminary design plans for widening improvements on Oso Parkway between the I-5 freeway and County Club Drive. Also, prepared a traffic capacity and operation analysis of widening alternatives and recommended adding one lane in each direction on Oso Parkway and modifying the signals at County Club and Montanoso Drives. The widening improvements will require the relocation of several utilities along the existing sidewalks and the acquisition of additional right of way on both sides of the street. The box culvert for Oso Creek will be lengthened to accommodate the new lanes in each direction.

EDUCATION

B.S., Civil Engineering
University of Tabriz

REGISTRATIONS / LICENSES

Professional Engineer
California No. C67658

PROFESSIONAL ASSOCIATIONS

Leadership in Energy and
Environmental Design (LEED®)
Accredited Professional,
U.S. Green Building Council

OFFICE LOCATION

Irvine, California

YEARS EXPERIENCE

14 Years

YEARS WITH FIRM

14 Years

NAHID HEIDARBAGHI, P.E., LEEP® AP

Utility Coordination



OCTA Bus Rapid Transit Program - Bus Stop Enhancements; Orange County, CA

Orange County Transportation Authority c/o IBI Group

Project Engineer responsible for utility coordination for the enhancement of 109 bus stop station locations throughout Orange County.

Road Consultant Program – 10 Street Rehabilitation/Reconstruction Projects;

Los Angeles County, CA

County of Los Angeles

Design Engineer for engineering design services including the preparation of construction plans, specifications and an engineer's estimate for resurfacing/reconstruction projects for Los Angeles County Department of Public Works Road Consultant Program. The project included street resurfacing design, traffic signal upgrades, traffic loop restoration, striping plan preparation, and utilities coordination for Avalon Boulevard, Marengo Avenue, Foothill Boulevard, South Side Drive, Mulholland Highway, 135th Street, Mulberry Drive, and 170th Street.

Truck Impacted Intersections Project (Group A); County of Los Angeles, CA

County of Los Angeles

Design Engineer to assemble as-built data and inventory intersection/traffic assess existing conditions and determine modifications to improve the operations at eight (8) truck impacted intersection locations. The work included assembling as-built data, inventorying intersections/traffic signal conditions, determining cost effective improvements, and preparing plans for implementing the improvements. The improvements were comprised of street widening, concrete approaches, restriping, video detection and signal up grading.

Domestic Water Pipeline Capital Replacement Projects (CRPs 09-18, 09-04, 09-01); Town of Yucca Valley, CA

Hi-Desert Water District

Project Engineer for the preparation of three domestic water pipeline replacement projects, for the District's CIP, totaling approximately 11,230 lf. Improvement plans included new 8" PVC pipe, DIP fittings, replacement of hydrants and laterals/meters, and other appurtenances.

Lakewood Boulevard Improvements, Phases 3B and 3C; Downey, California

City of Downey

Project Engineer for miscellaneous utility relocations and adjustments, and the installation of a recycled water main, potable water meter adjustments associated with the design and construction of street improvements and enhancements along Lakewood Boulevard from Florence Avenue to Telegraph Road. The project is divided into two segments: Lakewood Boulevard between Florence Avenue and Gallatin Road (Phase 3B – Approx. 2800'); and Lakewood Boulevard between Gallatin Road and Telegraph Road (Phase 3C – Approx. 2700'). The Phase 3B and 3C improvements will include widening of the roadway. The minimum half-section of the improved roadway will provide a 14-foot median and three (3) continuous through lanes in each direction throughout the project limits. Within the Phase 3C segment, between the I-5 southbound and northbound on-ramps, a northbound auxiliary lane will also be provided.

Underground District Projects - Real Property/Easement & Civil Base Map Services; Anaheim, CA

City of Anaheim, Public Utilities Department

Project Engineer for utilities data collection and coordination for the preparation of civil base maps of all underground utilities including profiles for APUD transformers and other electrical facilities associated with the undergrounding of overhead power lines.

Ross Khiabani, PE, GE

President/Chief Executive Officer/Project Manager

Education

*MS
Geotechnical Engineering
California State University,
Long Beach*

*Geology
Pahlavi University, Iran*

Registration/ Certification

*Civil Engineer
California, No. 37156*

*Geotechnical Engineer
California, No. 2202*

*Civil Engineer
Nevada, No. 11256*

*Civil Engineer
Arizona, No. 27068*

Affiliations

*The Society of American
Military Engineers*

*American Society of Civil
Engineers, Member*

*Consulting Engineers and
Land Surveyors of California*

*Geotechnical Engineers
Association*

*American Public Works
Association*

*Council of Civil Engineers and
Land Surveyors*

30 Years Experience

7 Years with Willdan

Mr. Ross Khiabani, PE, GE, has over 30 years of professional experience in performing a diversified geotechnical assignments involving soil mechanics and foundation engineering, soil stabilization, landslide analysis and stabilization, settlement evaluations, liquefaction studies, temporary and permanent slope stability analyses, laboratory testing, and onshore and offshore exploration. He has worked on a wide variety of projects ranging from commercial, industrial, residential, institutional, ports and harbors, public works, transportation including major bridges, local roads, freeways and toll roads and water and waste water facilities. This broad base of experience has given him unique insight into local geotechnical and seismic conditions, construction processes. He has over ten years of project management experience, managing projects with budgets ranging from \$10,000 to over a million dollars.

During his career, Mr. Khiabani has been actively involved in technical and management positions of numerous geotechnical projects involving major landslides, analyses, mitigation, compressibility and collapse potential identification and mitigation measures, lateral earth pressures and strengths identification, laterally loaded piles/walls under temporary and permanent conditions, soil dynamics, such as liquefaction and slope stability analysis and mitigation methods and pavement engineering. As a project manager, Mr. Khiabani has had close communication with local, city, county, and state reviewers and is familiar with governing codes and requirements.

Specific Project Experience

Project Manager/Engineer for Various Street Pavement Rehabilitations:

- Santa Anita Avenue, Arcadia
- Alicante Street, La Mirada
- Garvey and Earle Avenue, Rosemead
- Downey, Brookshire, Rives Streets, Downey
- 161 and 162 Streets, Lawndale
- Manchester Blvd., Inglewood
- Yorba Linda Blvd., Yorba Linda

Chris LaBonte, Project Manager

Overland, Pacific & Cutler, Inc.

- Education:**
- BA, Spanish and Ancient Languages, Wheaton College, Wheaton, IL, 2003
 - Post-Baccalaureate Certificate in Classical Studies, University of California, Los Angeles, 2004
- License(s):**
- Real Estate License, California, No. 01879807
 - Notary Public, California
- Professional Affiliations:**
- Member, International Right of Way Association (IRWA), Chapter 57
 - Associate Member, Appraisal Institute (AI)
 - Member, California Redevelopment Association (CRA)
 - Member, California Association for Local Economic Development (CALED)
- Years of Experience:** **Initial Year in Industry:** 2005
Initial Year with OPC: 2005

Overview

As a Project Manager for Overland, Pacific & Cutler, Inc. (OPC), Mr. LaBonte is responsible for overseeing project goals and objectives. Mr. LaBonte is the manager of OPC's cost estimating division and has extensive experience in the preparation of Right of Way cost estimates and data sheets for all types of projects and clients. He also oversees the preparation of all Non-Complex Valuation appraisals and has prepared numerous fee appraisals. In addition to valuation, he has expertise in understanding design plans and serves in the capacity of coordinating the flow of information between design, right of way engineering and right of way implementation on projects of all sizes.

Project Examples

- **City of Bakersfield, Centennial Corridor Project.** Worked closely with design engineers to develop right of way cost estimate and data sheets for 3 alternatives of new freeway going through the heart of Bakersfield. Approximately 1,000 properties, improved with commercial, industrial and residential uses, were analyzed and valued.
- **Orange County Transportation Authority, Grand Avenue, Orangethorpe Avenue and Ball Road Grade Separation Projects.** Consulted with Project Development Teams and design engineers in the development of project alternatives. Then analyzed affected industrial, commercial and residential properties with respect to acquisition, relocation, goodwill, severance damages, demolition and support costs for R/W cost estimate.
- **City of Santa Ana, Grand Avenue and Warner Avenue Widening Projects.** Prepared funding level right of way cost estimates for street widening projects in Santa Ana with impacts to commercial and residential properties.
- **Riverside County Transportation Commission, SR-91 Corridor Improvement Project.** Worked with the prime engineering firm in the preparation of a Right of Way Capital Expenditure/Toll Feasibility Study, provided analysis of critical path parcels and coordinated R/W scheduling issues. Also prepared PA/ED level R/W cost estimate and data sheets on nearly 500 properties, with 3 alternatives and 20 design variations, for the widening of SR-91 through Corona, CA.

- **City of Los Angeles, 6th Street Viaduct Seismic Improvement Project.** Prepared R/W Cost Estimate and Data Sheets for realignment of the 6th Street Bridge in Downtown Los Angeles. Involved in-depth analysis of impacts to heavily industrialized area, along with Railroad and Flood Control parcels.
- **City of Highland, Tiger II Grant 3rd & 5th Street Project.** Managed the preparation of Non-Complex Valuations for 15 industrial and residential properties.
- **San Bernardino Associated Governments (SANBAG), I-215 HOV/Bi-County Project.** Prepared Cost Estimate and Right of Way Data Sheets for temporary and permanent impacts to industrial properties due to reconstruction of 2 Railroad Bridges and temporary shoofly tracks. Additionally, performed feasibility studies for soundwalls on residential, commercial and industrial properties. For the **I-15/I-215 Devore Interchange Improvement Project**, prepared Cost Estimates and Right of Way Data Sheets for three design alternatives involving 175 properties which included railroads, government lands, commercial and residential uses. On the **I-215/Barton Road and I-215/Washington Street Interchange Improvement Projects**, prepared Cost Estimates and Right of Way Data Sheets for six design alternatives involving 141 properties, including residential, commercial, industrial and railroad properties.
- **City of Indio, Golf Center Parkway at I-10 and Monroe Street at I-10 Interchange Projects.** Prepared Cost Estimates and Right of Way Data Sheets for various design alternatives involving commercial, residential and public properties.
- **City of Banning, Highland Springs at I-10 Interchange Project.** Prepared Cost Estimates and Right of Way Data Sheets for two design alternatives involving commercial and residential properties.
- **City of Temecula, French Valley Parkway Interchange.** Prepared Right of Way Cost Estimates and Data Sheets for a new interchange and braided on/off ramp structure on I-15 in Temecula.

Specific Expertise

IRWA Courses:

100 – Principles of Land Acquisition
421 – Valuation of Partial Acquisitions
901 – Engineering Plan Development and Application
902 – Property Descriptions

Appraisal Institute Courses:

Basic Appraisal Principles
15 Hour National USPAP Equivalent Course

In-House Courses:

Advanced Residential Relocation
Basic Business Relocation
Advanced Business Relocation

Other Coursework:

Summer Studies Certificate Program
"Español Avanzado" at the Centro de
Enseñanza Para Extranjeros,
Universidad Nacional Autónoma de
México, México, D.F.



ROBERT W. STONE, ASLA

Executive
Vice President

Bob develops innovative public realm designs which provide strong visual character and seamless functionality for pedestrian and vehicular spaces. He is the primary principal accountable for the management, fiscal productivity, and resource orchestration of our Southern California, Nevada, and International projects; overseeing our staff for an array of public agency and private developer and clients. He participates in several chapters of the Building Industry Association and Urban Land Institute. Bob's clients respect the attention to responsiveness, creative solutions, and follow through from conceptual design to field observation.

Years with NUVIS: 30
Years Experience: 34

Other Professional Experience
Landscape Architect, POD, Inc.

Licensure:
CA 1891
NV 396

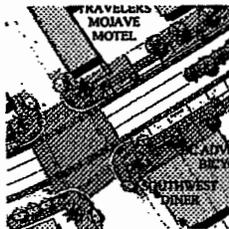
Professional Affiliations
American Society of Landscape Architects (ASLA)
Building Industry Association (BIA)
Urban Land Institute (ULI)
Gamma Sigma Delta, Honorary Society of Agriculture



Traffic Calming Intersections, Santa Monica, CA

Maguire Properties

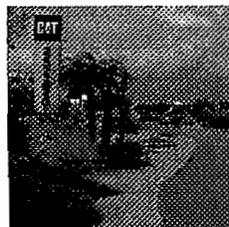
Conceptual plans, construction documents, and construction observation for traffic calming and streetscape beautification of 15 intersections. Complete Street design principles employed via bulb-outs and safe/convenient pedestrian crossings. Water efficient plantings irrigated with drip system through LEIT solar controllers.



Nevada Way Traffic & Landscaping Improvements, Boulder City, NV

Nevada by Design for the City of Boulder City

Conceptual designs and design development graphics for 1/2 mile of street improvements with bike lanes on both sides, turn lanes with landscaped median islands in select locations, retained existing lane configurations at major intersections, 7' wide sidewalks on both sides of roadway, gateway features, and improved walkable environment for pedestrians. Solutions reinforce the history of Boulder City with elements from Hoover Dam along with thematic site furnishings.



Cashman Equipment Facility & St. Rose Parkway Trail, Henderson, NV

SH Architecture

Conceptual plans, construction documents, and LEED Documentation for a 53-acre corporate campus and adjacent regional trail utilizing high-efficiency irrigation systems, low water use plant material, permeable paving, and locally sourced materials. LEED Gold Certification.

Contact: Curt Carlson, SH Arch., 702-363-2222



Kana Pipeline, Inc.

JIM MIHLD, SUE Project Management / Estimating
mihld@kanapipeline.com / (714) 986-1400 x 227

Jim Mihld has 23 years experience in positive location of underground utilities. Having served as Gas Technician, Vac Rig Forman, General Forman, Field and other Superintendent / Supervisory positions in the past he is currently Project Managing and Estimating Subsurface Utility Engineering projects for Kana Pipeline, Inc. He has strong interpersonal skills and enjoys a challenging environment where he can best utilize his knowledge and leadership skills to initiate quality work. Hard working, goal-oriented, responsible and ethical. Bilingual - Fluent English/Spanish.

Qualifications:

Active Registration in National Association of Corrosion Engineers (NACE) International / 2003 Registered. Trained to comply with OSHA's 19CFR 1910.146 permit required confined space.

Supervisor of crews working on various infrastructure projects in the **City of Anaheim**. Work has involved the positive location of over 350 pipelines and substructures on Sanitary Sewer Storm Drain, and Water Pipeline projects including **Model 99 Phase I & II, III, Model 159, and Model 159A**.

Supervisor of crews working on **ICDC East Orange Major Infrastructure Improvements Project**. Work involved the positive locating of approximately 100 pipelines and substructures utilizing vacuum excavation.

Project Manager on **Los Angeles Department of Water and Power** Single provider on-call service contract.

Project Manager on three Single provider on-call service contracts with **California Department of Transportation (DOT)**.

Superintendent of operations in **Southern California**. Responsible for the supervision of crews performing utility location and excavation work utilizing vacuum excavation, and electronic location methods.

Supervisor of crews working for **Psomas Engineering and Spec Services** on the **Alameda Corridor Project**. Work involved the positive location of 1,100 + pipelines and substructures utilizing vacuum excavation.

Supervisor of crew's working for **Boyle Engineering and Vido Artukovich & Son** on the **West Basin Water Reclamation program** in the **City of Carson**. Work involved electronic location and vacuum excavation services.

Supervisor of crew's working for the **City of San Diego Water Department Cathodic protection** compliance program. Work involves electronic location and vacuum excavation services.

Supervisor of vacuum excavation crews working for **Stantec / Irvine Ranch Water District (IRWD)** Zone 3-4 Booster Pump Station.

Supervisor of vacuum excavation crews working for **Tetra Tech / IRWD** for the Irvine Desalter Project.

Supervise operations of vacuum excavation crews working for **CalTrans** performing positive utility location work on the **Highway 126** widening project.

Project Foreman of **Shell Oil Cathodic** protection project utilizing vacuum excavation throughout Southern California. Project consisted of the installation of more than 2300 test stations on oil pipelines, including stations installed on pipelines at **Camp Pendleton, Edwards Air Force Base, Vandenberg Air Force Base** and **The Los Angeles International Airport (LAX)**.

References available upon request.

WATER • SEWER • FIRE LINE • STORM DRAIN • SUBSURFACE UTILITY ENGINEERING

1639 E. Miraloma Ave • Placentia, CA 92870 • P (714) 986-1400 • F (714) 986-1416 • www.kanapipeline.com LIC 461487A

EXHIBIT B
FEE SCHEDULE

EXHIBIT C
PROJECT SCHEDULE



INTERSECTION IMPROVEMENTS FOR HARBOR BOULEVARD AND VICTORIA STREET CITY OF COSTA MESA



ID	Task Name	Duration	Start	Finish	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	Phase I: Preliminary Engineering & Survey	101 days	Mon 3/12/12	Mon 7/30/12									
2	Project Kick-Off & Data Collection	6 days	Mon 3/12/12	Mon 3/19/12									
3	Field and Aerial Surveys and Base Map	16 days	Mon 3/19/12	Mon 4/9/12									
4	Draft Hydrology and Soil Reports	21 days	Mon 3/19/12	Mon 4/16/12									
5	Utility Investigation & Coordination	96 days	Mon 3/19/12	Mon 7/30/12									
6	Preliminary R/W Engineering	11 days	Mon 4/9/12	Mon 4/23/12									
7	Preliminary Alignment Concept	11 days	Mon 4/9/12	Mon 4/23/12									
8	Phase II: R/W Engineering	46 days	Mon 4/23/12	Mon 6/25/12									
9	Determine all Easement Locations	21 days	Mon 4/23/12	Mon 5/21/12									
10	Coordinate With Property Owners	21 days	Mon 4/23/12	Mon 5/21/12									
11	Prepare Cost Estimate and Assess the Impacts	21 days	Mon 4/23/12	Mon 5/21/12									
12	Prepare Legal Descriptions	16 days	Mon 6/4/12	Mon 6/25/12									
13	Phase III: PS&E and Construction Support	136 days	Mon 4/23/12	Mon 10/29/12									
14	70 Percent Plans, Specifications & Estimates	21 days	Mon 4/23/12	Mon 5/21/12									
15	Final Hydrology and Soil Reports	21 days	Mon 4/23/12	Mon 5/21/12									
16	Agency Review	11 days	Mon 5/21/12	Mon 6/4/12									
17	90 Percent Plans, Specifications & Estimates	16 days	Mon 6/4/12	Mon 6/25/12									
18	Agency Review	11 days	Mon 6/25/12	Mon 7/9/12									
19	Final Plans, Specifications & Estimates	16 days	Mon 7/9/12	Mon 7/30/12									
20	Bidding and Construction Support	46 days	Mon 8/27/12	Mon 10/29/12									

VA Consulting, Inc.
January 20, 2012

SCH01_Harbor Blvd and Victoria St.mpp

1

Task

Split

Progress

Milestone

Summary

Project Summary

External Tasks

External Milestone

Deadline

EXHIBIT D

CITY COUNCIL POLICY 100-5

SUBJECT	POLICY NUMBER	EFFECTIVE DATE	PAGE
DRUG-FREE WORKPLACE	100-5	8-8-89	1 of 3

BACKGROUND

Under the Federal Drug-Free Workplace Act of 1988, passed as part of omnibus drug legislation enacted November 18, 1988, contractors and grantees of Federal funds must certify that they will provide drug-free workplaces. At the present time, the City of Costa Mesa, as a sub-grantee of Federal funds under a variety of programs, is required to abide by this Act. The City Council has expressed its support of the national effort to eradicate drug abuse through the creation of a Substance Abuse Committee, institution of a City-wide D.A.R.E. program in all local schools and other activities in support of a drug-free community. This policy is intended to extend that effort to contractors and grantees of the City of Costa Mesa in the elimination of dangerous drugs in the workplace.

PURPOSE

It is the purpose of this Policy to:

1. Clearly state the City of Costa Mesa's commitment to a drug-free society.
2. Set forth guidelines to ensure that public, private, and nonprofit organizations receiving funds from the City of Costa Mesa share the commitment to a drug-free workplace.

POLICY

The City Manager, under direction by the City Council, shall take the necessary steps to see that the following provisions are included in all contracts and agreements entered into by the City of Costa Mesa involving the disbursement of funds.

1. Contractor or Sub-grantee hereby certifies that it will provide a drug-free workplace by:
 - a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in Contractor's and/or sub-grantee's workplace, specifically the job site or location included in this contract, and specifying the actions that will be taken against the employees for violation of such prohibition;

SUBJECT	POLICY NUMBER	EFFECTIVE DATE	PAGE
DRUG-FREE WORKPLACE	100-5	8-8-89	2 of 3

- b. Establishing a Drug-Free Awareness Program to inform employees about:
 - 1. The dangers of drug abuse in the workplace;
 - 2. Contractor's and/or sub-grantee's policy of maintaining a drug-free workplace;
 - 3. Any available drug counseling, rehabilitation and employee assistance programs; and
 - 4. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- c. Making it a requirement that each employee to be engaged in the performance of the contract be given a copy of the statement required by subparagraph A;
- d. Notifying the employee in the statement required by subparagraph 1 A that, as a condition of employment under the contract, the employee will:
 - 1. Abide by the terms of the statement; and
 - 2. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction;
- e. Notifying the City of Costa Mesa within ten (10) days after receiving notice under subparagraph 1 D 2 from an employee or otherwise receiving the actual notice of such conviction;
- f. Taking one of the following actions within thirty (30) days of receiving notice under subparagraph 1 D 2 with respect to an employee who is so convicted:
 - 1. Taking appropriate personnel action against such an employee, up to and including termination; or
 - 2. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health agency, law enforcement, or other appropriate agency;

SUBJECT	POLICY NUMBER	EFFECTIVE DATE	PAGE
DRUG-FREE WORKPLACE	100-5	8-8-89	3 of 3

- g. Making a good faith effort to maintain a drug-free workplace through implementation of subparagraphs 1 A through 1 F, inclusive.
2. Contractor and/or sub-grantee shall be deemed to be in violation of this Policy if the City of Costa Mesa determines that:
 - a. Contractor and/or sub-grantee has made a false certification under paragraph 1 above;
 - b. Contractor and/or sub-grantee has violated the certification by failing to carry out the requirements of subparagraphs 1 A through 1 G above;
 - c. Such number of employees of Contractor and/or sub-grantee have been convicted of violations of criminal drug statutes for violations occurring in the workplace as to indicate that the contractor and/or sub-grantee has failed to make a good faith effort to provide a drug-free workplace.
 3. Should any contractor and/or sub-grantee be deemed to be in violation of this Policy pursuant to the provisions of 2 A, B, and C, a suspension, termination or debarment proceeding subject to applicable Federal, State, and local laws shall be conducted. Upon issuance of any final decision under this section requiring debarment of a contractor and/or sub-grantee, the contractor and/or sub-grantee shall be ineligible for award of any contract, agreement or grant from the City of Costa Mesa for a period specified in the decision, not to exceed five (5) years. Upon issuance of any final decision recommending against debarment of the contractor and/or sub-grantee, the contractor and/or sub-grantee shall be eligible for compensation as provided by law.

BUDGET ADJUSTMENT AUTHORIZATION

Unit CITY	Department Public Services	Division Transportation	Serial Number 12-016
Type of Transaction <input checked="" type="checkbox"/> Revenue Estimate <input checked="" type="checkbox"/> Estimate Increase <input type="checkbox"/> Estimate Decrease <input checked="" type="checkbox"/> Source <input type="checkbox"/> From Existing Budget Appropriations <input checked="" type="checkbox"/> From Donations, Fees, or Grants <input checked="" type="checkbox"/> From Unappropriated Fund Balance		Reason for Request: To increase revenue and appropriations for Measure M2 grant and Traffic Impact Fee funds for intersection improvements at Harbor Blvd. and Victoria Street, as recommended to City Council on April 3, 2012.	

Unit	Account	Name	Fund	Organization	Program	Project/Grant	Increase	Decrease
CITY	500000	Harbor/Gisler Intersection Improvements	415	19300	30112	300141	\$48,750	-
CITY	430312	Measure M2 Regional Grant	415	19300	30112	-	48,750	-
CITY	500000	Harbor/Gisler Intersection Improvements	214	19300	30112	300141	21,684	-
CITY	340295	Unreserved undesignated fund balance	214	90000	50240	-	-	21,684
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Department Authorization: <div style="text-align: center;"> _____ Department Director </div> Date: <u>3-28-12</u>	Recommendation: <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Disapproval Reasons For Disapproval: Director of Finance _____ Date _____ City Manager Action: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required City Manager _____ Date _____ City Council Action: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required _____ Date _____
Budget Verification: The above information has been reviewed, is complete and accurate, and the appropriations and/or unappropriated funds are sufficient to support the request. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Budget and Research Officer _____ Date _____	