

DEFINITIONS

Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services: Those professional services within the scope of the practice of those services as provided in ARS § 32-101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in ARS § 32-101(B.19.).

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS:

1. Complete this form for each branch office seeking work under this RFQ.
 - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
 - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
 - g. **Ownership.**
 - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
 - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
 - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
 - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
 - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select Other. *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
 - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
 - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
 - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.
 - b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
 - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has

earned over the last year per Profile Code entered into the table.

4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
 - a. Self-explanatory.
 - b. Self-explanatory
 - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch office (block c2).
 - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
 - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
 - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
 - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
 - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.

5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.
 - a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
 - b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
 - c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
 - d. Provide the original budget or not to exceed dollar amount for the project.
 - e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
 - f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.

6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.

7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.

8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

List of Disciplines (Function Codes) for Question 7

Aeronautical Engineer	Environmental Engineer	Mining Engineer
Agricultural Engineer	Environmental Scientist	Nuclear Engineer
Archeologist	Fire Protection Engineer	Petroleum Engineer
Architect	Geodetic Surveyor	Photogrammetrist
Architectural Engineering	Geographic Information System Specialist	Project Manager
Biologist	Geological Engineer	Sanitary Engineer
CADD Technician	Geologist	Soils Engineer
Chemical Engineer	Hydrographic Surveyor	Structural Engineer
Civil Engineer	Hydraulic Engineer	Technician/Analyst
Construction Manager	Hydrologist	Transportation Engineer
Construction Inspector	Industrial Engineer	Water Resources Engineer
Control Systems Engineer	Landscape Architect	
Cost Engineer/Estimator	Mechanical Engineer	
Ecologist	Metallurgical Engineer	
Electrical Engineer		

List of Experience Categories (Profile Codes for Question 8)

Acoustics, Noise Abatement	Dredging Studies and Design
Aerial Photography; Airborne Data and Imagery Collection and Analysis	Design & Planning Structured Parking Facilities
Activity Centers	Detention Security Systems
Air Pollution Control	Disability / Special Needs
Airports; Navaids; Airport Lighting; Aircraft Fueling	Ecological and Archeological Investigations
Airports; Terminals and Hangars; Freight Handling	Educational Facilities; Classrooms
Agricultural Development; Grain Storage; Farm Mechanization	Electrical Studies and Design
Animal Facilities	Electronics
Anti-Terrorism/Force Protection	Elevators; Escalators; People-Movers
Area Master Planning	Energy / Water Auditing Savings
Auditoriums and Theaters	Energy Conservation; New Energy Sources
Automation; Controls; Instrumentation	Environmental Impact Studies, Assessments or Statements
Barracks; Dormitories	Fallout Shelters; Blast-Resistant Design
Bridge Design: Bridges	Fire Protection
Cartography	Fisheries; Fish Ladders
Cemeteries (<i>Planning and Relocation</i>)	Forensic Engineering
Chemical Processing and Storage	Garages; Vehicles Maintenance Facilities; Parking
Child Care/Development Facilities	Gas Systems (<i>Propane; Natural, Etc.</i>)
Codes; Standards; Ordinances	Geodetic Surveying: Ground and Airborne
Cold Storage; Refrigeration and Fast Freeze	Heating; Ventilating; Air Conditioning
Commercial Building (<i>Low Rise</i>); Shopping Centers	Highways; Streets; Airfield Paving; Parking Lots
Community Facilities	Historical Preservation
Communications Systems; TV; Microwave	Hospital and Medical Facilities
Computer Facilities	Hotels; Motels
Conservation and Resource Management	<i>Housing (Residential, Multi-Family; Apartments; Condominiums)</i>
Construction Management	Hotels; Motels
Construction Surveying	Hydraulics and Pneumatics
Corrosion Control; Cathodic Protection Electrolysis	Hydrographic Surveying
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	Industrial Buildings; Manufacturing Plants
Cryogenic Facilities	Industrial Processes; Quality Control
Construction Materials Testing	Industrial Waste Treatment
Dams (<i>Concrete; Arch</i>)	Intelligent Transportation Systems
Dams (<i>Earth; Rock</i>); Dikes; Levees	Infrastructure
Desalinization (<i>Process and Facilities</i>)	Irrigation; Drainage
Design-Build - Preparation of Requests for Proposals	Judicial and Courtroom Facilities
Digital Elevation and Terrain Model Development	Laboratories; Medical Research Facilities
Digital Orthophotography	Land Surveying
Dining Halls; Clubs; Restaurants	Landscape Architecture
	Libraries; Museums; Galleries

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Lighting (*Interior; Display; Theater, Etc.*)
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)
Labs - General
Labs – Research – Dry
Labs – Research – Wet
LEED Accredited A/E
LEED Independent 3rd Party Building Commissioning
Mapping Location/Addressing Systems
Materials Handling Systems; Conveyors; Sorters
Metallurgy
Materials Testing
Measurement / Verification / Conservation Water Consumption Savings
Mining and Mineralogy
Medical Related
Modular Systems Design; Fabricated Structures or Components
Mold Investigation
Museums
Nuclear Facilities; Nuclear Shielding
Office Buildings; Industrial Parks
Outdoor Recreation
Petroleum and Fuel (*Storage and Distribution*)
Photogrammetry
Pipelines (*Cross-Country - Liquid and Gas*)
Phase I Environmental
Prisons & Correctional Facilities
Plumbing and Piping Design
Prisons and Correctional Facilities
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities
Radar; Sonar; Radio and Radar Telescopes
Radio Frequency Systems and Shielding's
Railroad; Rapid Transit
Recreation Facilities (*Parks, Marinas, Etc.*)
Refrigeration Plants/Systems
Rehabilitation (*Buildings; Structures; Facilities*)
Research Facilities
Resources Recovery; Recycling
Roof Infrared Imaging to Identify Water Leaks

Roofing
Safety Engineering; Accident Studies; OSHA Studies
Security Systems; Intruder and Smoke Detection
Seismic Designs and Studies
Sewage Collection, Treatment and Disposal
Soils and Geologic Studies; Foundations
Solar Energy Utilization
Solid Wastes; Incineration; Landfill
Special Environments; Clean Rooms, Etc.
Structural Design; Special Structures
Surveying; Platting; Mapping; Flood Plain Studies
Sustainable Design
Swimming Pools
Storm Water Handling and Facilities
Specifications Writing
Toxicology
Testing and Inspection Services
Traffic and Transportation Engineering
Topographic Surveying and Mapping
Towers (*Self-Supporting and Guyed Systems*)
Tunnels and Subways
Traffic Studies
Transportation
Urban renewals; Community Development
Utilities (*Gas and Steam*)
Value Analysis; Life-Cycle Costing
Warehouse and Depots
Water Resources; Hydrology; Ground Water
Water Supply; Treatment and Distribution
Wind Tunnels; Research/Testing Facilities Design
Waste Water Treatment Facility
Water Well Rehabilitation; Water Well Work
Zoning; Land Use Studies

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. SOLICITATION NUMBER: *Annual Request for Qualifications*

2a.	FIRM (OR BRANCH OFFICE) NAME:	Coe and Van Loo LLC
2b.	FIRM (OR BRANCH OFFICE) STREET:	4550 N 12 th Street
2c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
2d.	FIRM (OR BRANCH OFFICE) STATE:	AZ
2e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85014

3. YEAR ESTABLISHED: 1958

4a.	OWNERSHIP - TYPE:	Corporation
4b.	OWNERSHIP - SMALL BUSINESS STATUS:	NA

5a.	POINT OF CONTACT NAME AND TITLE:	Les F. Olson, PE, RLS, Director
5b.	POINT OF CONTACT TELEPHONE NUMBER:	602-264-6831
5c.	POINT OF CONTACT E-MAIL ADDRESS:	Lolson@cvlci.com

6. NAME OF FIRM *(If block 2a is a branch office):* NA

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8. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 3 YEARS

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
8	Aerial Photography, Airborne Data and Imagery Collection and Analysis	1
16	Area Master Planning, Landscape Architecture	5
50	Construction Surveying, Land Surveying, Topographic Survey	5
50	Cost Estimating, Cost Engineering and Analysis, Parametric Costing, Forecasting	3
15	Highways, streets, airfield paving, parking lots	3
50	Infrastructure, irrigation, drainage	6
5	Sewage Collection, Treatment and disposal	5
18	Surveying, Platting, Mapping, Flood Plain Studies	5
12	Stormwater handling and facilities	5
4	Urban Renewals and Community Development	1
8	Water Resources, Hydrology, ground water	3
7	Water Supply, Treatment and Disposal	3
2	Wastewater treatment Facility	4
1	Water Well Rehabilitation, Water well work	1
38	Zoning, Land Use Studies	5

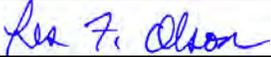
PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

9. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

9a. Percentage of Total Work Attributable to State, Federal and Municipal Government	15%
9b. Percentage of Total Work Attributable to Non-Government Work:	85%

10. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

10a. SIGNATURE: 	Les F. Olson, PE, RLS, Director
10b. DATE SIGNED: December 6, 2013	

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REVISED - Attachment I – General Qualifications**

4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Paul Siders, P.E., R.L.S.		b. ROLE IN THIS CONTRACT Point of Contact Project Manager, Civil Engineer		c. YEARS EXPERIENCE	
		1. TOTAL 38	2. WITH CURRENT FIRM 24		
d. FIRM NAME AND LOCATION (City and State) COE & VAN LOO CONSULTANTS, INC., 4550 N. 12th Street, Phoenix, AZ 84014					
e. EDUCATION (Degree and Specialization) Arizona State University, B.S. Civil Engineering, (1970)			f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - AZ #10516 (1976) Professional Land Surveyor – AZ #17488 (1984)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Valley Partnership, Home Builders Association of Central Arizona (HBACA)					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	Lower Buckeye Road, El Mirage Road, Avondale Boulevard Avondale, Arizona	2005	2007
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for two miles of arterial roadway improvements in Avondale that included paving, signing, striping, storm drain, water, and sewer plans. The project also included coordination for a pedestrian underpass and with SRP for irrigation relocation. Construction costs: approximately \$2 million.	X-Check if project performed with current firm	
2.	El Mirage Road, Williams Road, 115th Avenue Maricopa County, Arizona	2005	2007
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for approximately four miles of arterial street improvements located within Maricopa County jurisdiction. Project included paving, signing, striping, water, sewer, and storm drain plans. Also included was an 11 barrel box culvert that was coordinated through Maricopa County Flood Control District. Construction costs: approximately \$4.5 million.	X-Check if project performed with current firm	
3.	Baseline Road, Southern Avenue, 43rd Avenue, 51st Avenue Phoenix, Arizona	2003	2005
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for two miles of arterial street improvements in Phoenix. Project included paving, signing, striping, water, sewer, and storm drain plans. Also included was coordination with Maricopa County Flood Control District for a regional conveyance channel and coordination with SRP for irrigation facilities. Construction costs: approximately \$2.5 million.	X-Check if project performed with current firm	
4.	Broadway Road, 99th Avenue Phoenix, Arizona	2004	2006
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for two miles of arterial street improvements in Phoenix. Project included paving, signing, striping, water, sewer, and storm drain plans. Construction costs: approximately \$1.8 million.	X-Check if project performed with current firm	
5.	Elliot Road, Meridian Road Mesa, Arizona	1999	2001
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for one mile of arterial street improvements in Mesa. Project included paving, signing, striping, water, sewer, and storm drain plans. Construction costs: approximately \$1.0 million.	X-Check if project performed with current firm	

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Ryan Weed, P.E.		b. ROLE IN THIS CONTRACT Project Manager, Transportation		c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 11		
d. FIRM NAME AND LOCATION (City and State) COE & VAN LOO CONSULTANTS, INC., 4550 N. 12 th Street, Phoenix, AZ 84014					
e. EDUCATION (Degree and Specialization) Northern Arizona University, B.S. Civil Engineering, Cum Laude (1997)			f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - AZ #37325 (2002)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Valley Partnership					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	Anderson Road Pinal County, Arizona	2005	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm Project Manager for a three-mile widening and overlay of Anderson Road. Project included roadway development agreement coordination with private developer, new bridge construction coordination, planning for future roadway widening, Maricopa-Casa Grande Highway intersection design, and railroad crossing coordination. Construction bids: approximately \$1.2 million dollars		
2.	Thomas Road Buckeye, Arizona	2007	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm Project Manager for two miles of new construction east of Sun Valley Parkway. Project included roadway design, 12 barrel box culvert design which incorporated migratory deer crossing, APS Substation coordination, alluvial fan environment. Construction costs: approximately \$900,000.		
3.	Hartman Road, Bowlin Road, Farrell Road Maricopa, Arizona	2006	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm Project Manager for six miles of arterial roadway improvements in the City of Maricopa to conform with the Small Area Transportation Study. Construction plans included paving, signing and striping, guard rail, future bridge crossing coordination, Maricopa-Stanfield Irrigation District lateral relocation design and coordination, and Electrical District #3 69KV power line coordination. Construction costs: approximately \$2.0 million.		
4.	Louis Johnson Road Pinal County, Arizona	2006	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm Project Manager for four miles of arterial roadway improvements in Pinal County. Construction of plans included two lanes of roadway extension from State Route 347 west to White Road. Project efforts also included coordination of a roadway development agreement with a private property owner and right of way access permit approval from ADOT. Construction costs: approximately \$800,000.		
5.	Cotton Lane Goodyear, Arizona	2003	2004
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm Project Manager for two-mile segment of Cotton Lane in the City of Goodyear. Project incorporated design for interim construction prior to 303 ADOT freeway extension. Construction costs: approximately \$600,000.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Eric Laurin, P.E.	a. ROLE IN THIS CONTRACT Senior Project Manager, Water Resources	c. YEARS EXPERIENCE	
		a. TOTAL 34	b. WITH CURRENT FIRM 12

d. FIRM NAME AND LOCATION (City and State)
COE & VAN LOO CONSULTANTS, INC., 4550 N. 12th Street, Phoenix, AZ 84014

e. EDUCATION (Degree and Specialization) Master of Science, Environmental Engineering, University of North Carolina at Chapel Hill, 1976. Bachelor of Science, Clarkson University, 1974. Value Engineering Training Workshop, 1981. Basic Health and Safety Training (OSHA 1910.120)	f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer (Civil) - AZ #14478 Professional Engineer - New York #058365 Professional Engineer - New Jersey #GE-35912
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
American Water Works Association, AZ Water Pollution Control Association

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	Sewage Lift Station No. 61 Upgrades 1.0 to 1.8 MGD; 1.8 to 5.0 MGD - City of Phoenix, Arizona	2003	2005
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for design and construction document preparation for two separate phases. New pumps and odor control system. Construction costs: approximately \$3.0 million		
2.	Desert Ridge SB 1 South 42-inch/36-inch Transmission Mains – Phoenix, AZ	2007	2008
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Designed approximately 14,500 LF of 36-inch and 42-inch water line along the Mayo Boulevard alignment between Cave Creek Road and Tatum Boulevard. Included a corridor and property survey, coordination with CAP, ASLD, ADOT and City of Phoenix Streets Transportation Department. Jack and bore under Loop 101. Construction phase support and final certification. Construction costs: approximately \$2.5 million		
3.	Camp Verde WWTP and Collection Systems Upgrades Camp Verde, Arizona	2007	2009 (est.)
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Prepared contract documents for a new 0.65 MGD extended aeration WWTP. Permitting, process calculations and coordination with ADEQ and County. Collection system expansion (approximately 45,000 LF) consisted of 8 inch – 24 inch sewers. Construction costs: approximately \$12.0 million		
4.	Agua Fria Water Plant No. 9, Arizona American Water Buckeye, Arizona	2006	2008
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Prepared the design, control description and construction documents for a 1,000 gpm ion-exchange (IX) water treatment facility to remove excess nitrates and arsenic from four (4) wells. Assisted in the construction phases by providing shop drawing and record drawing services. Construction costs: approximately \$2.0 million		
5.	Capital Improvement Program for Water and Sewer Infrastructure - Town of Chino Valley, AZ	2008 (ongoing)	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm		

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Project Manager for preparation of Town's water and sewer system CIP for 2008 – 2018. Water/sewer master planning for 61 sq. mile study area, demand and flow projections, systems modeling, scheduling and water company evaluation using RCNLD of four (4) private utilities for purchase by Town. Assisted in rate study of necessary improvements.

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Ricardo Aguirre, MS, P.E.		b. ROLE IN THIS CONTRACT Project Manager, Geographic Information System / Hydrologist		c. YEARS EXPERIENCE	
				1. TOTAL 16	2. WITH CURRENT FIRM 5
d. FIRM NAME AND LOCATION (City and State) COE & VAN LOO CONSULTANTS, INC., 4550 N. 12 th Street, Phoenix, AZ 84014					
e. EDUCATION (Degree and Specialization) Bachelor of Science in Civil Engineering, Arizona State University Master of Science in Civil Engineering (focus on Hydrosystems) University of Illinois at Urbana-Champaign			f. CURRENT PROF. REGISTRATION (State and Discipline) Professional Engineer - AZ #41454 Professional Engineer - NM #18951 Professional Engineer - IL #062-055278 Professional Engineer - WI #35896-006 Professional Engineer - HI #PE12994		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	Arizona State Land Department 5-Year Disposition Plan Tucson and Phoenix, Arizona	2008	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for a parcel evaluation based on site development criteria, as well as the following supplemental criteria: slope determinations, flood zone locations, geologic evaluations for faults and fissures, and lease status. This land suitability analysis was for the purpose of rating each parcel to categorize into a value system. A GIS model was created and a GIS database of the collected information was prepared per ASLD standards. Creating this database provided the ability to view the data under different geographic scenarios depending on the value strengths of any given location. \$130,000		
2.	Spring Valley Master Drainage Plan San Diego County, California	2004	2005
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Assistant Project Manager - Used GPS device to collect storm drainage structure information within the limits of the Spring Valley Master Drainage Plan. This data was used in conjunction with GIS to update the County database. The responsibility consisted of data gathering, data downloading, data interpretation, data comparison to existing maps, and data updating. GIS was used to manage and organize the data for delivery into the County GIS system. \$185,000		
3.	Stage III 100-year Flood Hazard Determination for Alluvial Fan 37 in the Western Piedmont of the White Tank Mountains Buckeye, Arizona	2006	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project manager for the preparation of a Technical Data Notebook for an alluvial fan regional study, which consisted of approximately 8 square miles of floodplain delineation. GIS technology was used to identify drainage trends and geomorphic patterns between soils maps, geology maps, contour maps and aerial maps. These various maps were used with various GIS layers to provide additional understanding of the geomorphic influence of flooding over thousands of years. GIS simplified the analysis by enabling the analysts to view different scenarios for the purpose of identifying distinct relationships.		
4.	North Santa Cruz Wash Channelization Maricopa, Arizona	On-Going	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project manager for 13 miles of Channelization to contain both Floodway and Floodplain limits. Coordination between the City of Maricopa, the University of Arizona, Pinal County, the Ak-Chin Indian Community, the Gila River Indian Community, and fifteen private stakeholders. 2-D hydraulic models were used to establish the existing conditions floodplain. Proposed conditions consisted of scour and sedimentation analysis, inlet structures, spreader basins, grade control structures, access ramps, maintenance roads, trails, bridges, culverts, and irrigation and utility relocations. GIS was used to support numerous interim analytical procedures and to define the base map.		
5.	Beardsley Army Auxiliary Airfield Regional Floodplain Delineation Study - Surprise, Arizona	2007	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE X-Check if project performed with current firm		

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Project manager for the detailed study of Wash 5 East, Wash 6 East, Wash 9 East and Wash 10 East within the Wittmann Area Drainage Master Study. Used GIS and HEC-GeoRAS to determine the limits of the floodplain and floodway. The design concept was to reduce the floodplain width to maximize developable land, and to update the broad coverage of the Zone A floodplain to a more concise coverage consistent with a detailed Zone AE study.

4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Larry Sullivan, R.L.S.		b. ROLE IN THIS CONTRACT Director, Land Surveying		c. YEARS EXPERIENCE	
		1. TOTAL 37	2. WITH CURRENT FIRM 27		
d. FIRM NAME AND LOCATION (City and State) COE & VAN LOO CONSULTANTS, INC., 4550 N. 12th Street, Phoenix, AZ 84014					
e. EDUCATION (Degree and Specialization) Arizona State University			f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Land Surveyor - AZ #22782		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) APLS					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	King Ranch Goodyear, AZ	2005	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> -Check if project performed with current firm Project Manger for 1,000-acre A.L.T.A. survey and topographic survey, map of dedication, plats, calculations and preparation of numerous legal descriptions. \$75,000		
2.	Thomas Estates Avondale, AZ	2004	2004
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> -Check if project performed with current firm Project Manager - Sewer and water construction staking and asbuilts for City of Avondale improvements. \$32,000		
3.	"Buckeye 750" – 850 acres Buckeye, AZ	2006	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> -Check if project performed with current firm Project Manager - A.L.T.A. survey, aerial topography and filed topography for 850 acre master planned community. \$26,000		
4.	Terramar Peoria, AZ	1998	2000
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> -Check if project performed with current firm Project Manager for 640-acre master planned community. Services include A.L.T.A. and topographic surveys. Construction staking for infrastructure roads, channelization of existing washes and numerous subdivision improvements. \$850,000		
5.	Kierland Phoenix, AZ	2000	2000
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> -Check if project performed with current firm Project Manager - Survey services included A.L.T.A. surveys, topographic surveys, legal descriptions and construction staking for infrastructure roads, golf courses, commercial and residential sites. \$710,000		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Earl Swetland, R.L.A.	b. ROLE IN THIS CONTRACT Director, Landscape Architecture	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 27
d. FIRM NAME AND LOCATION (City and State) COE & VAN LOO CONSULTANTS, INC., 4550 N. 12th Street, Phoenix, AZ 84014			
e. EDUCATION (Degree and Specialization) Bachelor of Landscape Architecture, Iowa State University		f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Landscape Architecture - AZ #21411	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Landscape Architects			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	Laveen Farms Park, Phoenix, AZ	2005	2006
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE This 15-acre neighborhood park is located in the center of a master planned community developed by Centex Homes. The park was dedicated to the City of Phoenix after completion in June 2006. The site was designed in conjunction with an adjacent school site for shared use and access. The park was developed around a 2-acre lake, which provides a recreational amenity and a supply source for the park irrigation system. Construction costs were \$1.8 million. Role : Project Coordinator.		
2.	Parkridge Park, Peoria, AZ	1994	1995
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Provided design development from concepts through construction documents for this 10 acres project. This project involved development of a new floor plan and building design for the restroom buildings. The scope of work also included construction documents for planting, irrigation systems, retention basin grading, ramadas, sports courts and area/sports lighting. Role : Lead Designer and Project Coordinator (civil engineer, architect and electrical engineer).		
3.	Tramonto Recreation Sites, Phoenix, AZ	2000	2001
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Senior landscape architect responsible for the preparation of a conceptual site plan for two recreation sites. The West Recreation Center, about 3 acres, consisted of a swimming pool, two tennis courts, a basketball and volleyball court, and a picnic area. The East Recreation Center, about 5 acres, consisted of a swimming pool, tot lot, ramada and parking area. Desert vegetation was salvaged at both sites for use in the project. Coordination with electrical and architectural subconsultants.		
4.	Sun Groves, Chandler, AZ	1997	2004
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Design of a 240-acres master plan community with an agrarian design theme. The project included large open space areas with seven tot lot/ramada areas with supporting sport courts (basketball, sand volleyball and soccer fields). The project included a design of an 8 acre City of Chandler Park. A 3-acre lake was constructed to provide reclaimed water storage for the irrigation system. Role: Lead Designer / Project Coordinator.		
5.	Sheely Farms, Phoenix, AZ	1999	2001
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Worked with the client to develop a 160 acres agrarian themed development. Helped process master plans through the City's planning department. Worked in coordination with the engineers to develop landscape construction documents. Lead Designer for theme development and construction documents.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Timothy Starkey, R.L.A.		b. ROLE IN THIS CONTRACT Project Manager, Landscape Architecture		c. YEARS EXPERIENCE	
		a. TOTAL 14	b. WITH CURRENT FIRM 5		
d. FIRM NAME AND LOCATION (City and State) COE & VAN LOO CONSULTANTS, INC., 4550 N. 12 th Street, Phoenix, AZ 84014					
e. EDUCATION (Degree and Specialization) Bachelor of Science, Landscape Architecture			f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Landscape Architecture – AZ #41687		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ALSA, CLARB certified					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	WestWorld Trailhead and Equestrian Arenas Scottsdale, AZ	2002	2003
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project Manager for design and construction observation of 7-acre, \$783,000 trailhead facility that included restroom building, equestrian arenas, parking, multi-use trails, and native revegetation.		
2.	Dobson Ranch Golf Clubhouse Renovations Mesa, AZ	2001	2002
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE Project manager for design and construction observation of the entry drive, parking lot, and practice tee renovation, and new 5,000 sf golf clubhouse.		
3.	Homestead Park Maricopa, AZ	2007	2008
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> - Check if project performed with current firm Landscape Architect for 20-acre community park with effluent irrigation lake and water features, playground, basketball courts, soccer fields, shaded overlooks, and parking.		
4.	Kiel Ranch Historic Park City of North Las Vegas, NV	Ongoing (2009)	N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> - Check if project performed with current firm Project Manager for Historic Preservation and Site Development Master Plan of the Kiel Ranch Historic Park Site. Services include Stage I Archeological Assessment, Historic Preservation Plan, Biological Assessment and Mitigation Report, and Site Development concepts for an interpretive trail system and educational park. Facilitated highly attended public meetings with local press due to the contentious history of the project and its high profile. The 7-acre park consists of a circa 1860 adobe commissary building, early 1900's ranch buildings, an artesian spring, and Native American findings. Design fees are \$290,000. Design scheduled for completion in May 2009.		
5.	Campus Suites Student Housing Tempe, AZ	2008	Ongoing (2009)
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> - Check if project performed with current firm Landscape Architect for the 964-unit student housing and retail project adjacent to the light rail transit corridor. Amenities included passive courtyards with grilling and seating areas, a recreation center with two outdoor pools, heated spa, showers, tensile shade sails, and poolside theater. Retail area included café seating along the transit frontage. Cutting edge urban and over structure planting methods were included to ensure a thriving landscape in a high density environment.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section 4 for each key person.)

a. NAME Nick Santorineos	b. ROLE IN THIS CONTRACT Construction Superintendent	c. YEARS EXPERIENCE	
		a. TOTAL 47	b. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION (City and State) CVL Construction Services, LLC, 4550 N. 12th Street, Phoenix, AZ 84014			
e. EDUCATION (Degree and Specialization)		f. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dust Compliance – Erosion Control Coordinator, Arizona Department of Transportation			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
1.	Camino A Lago South (Lake Pleasant Parkway Phase II) Peoria, AZ	2007	2008
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> --Check if project performed with current firm CCS provided construction management for a 24 million dollar Capital Improvement Project (CIP). Construction included installation of all infrastructure including 1 mile of sewer, 3 miles of water and 4 miles of road. Responsibilities were full-scope, through the MCESD certifications. Mr. Santorineos assisted with the construction inspection process.		
2.	Hotevilla-Bacavi Community School Hotevilla, AZ	2008	2009
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> --Check if project performed with current firm Construction inspection for community school site improvements working closely with the Indian Reservation officials including the Bureau of Indian Affairs, EPA, NEPA, TERO, Bureau of Indian Education, Department of Natural Resources and others to provide site improvements of the water and sewer system including booster pump station and grinder pump.		
3.	Arizona Public Service Co. Ocotillo Road Improvements Phoenix, AZ	2009	2009
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> --Check if project performed with current firm Construction management for site improvements associated with relocation of residential utility poles. Work included removal and replacement of asphalt, concrete, curb, gutter, sidewalks, ADA ramps, resident driveways and landscape improvements.		
4.	Desert Ridge Super Block 1 South – 36” and 42” Water Main Phoenix, AZ	2007	2009
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> --Check if project performed with current firm Construction administration and inspection for the nearly 3 mile water transmission main extension, including review of shop drawings, interpretation of contract documents, field visits, testing, record drawings, certifications and SWPPP preparation and inspections.		
5.	North Black Canyon Corridor Infrastructure – Carefree Hwy. Phoenix, AZ	2000	2001
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> --Check if project performed with current firm Construction management for this fast-track project included approximately nine miles of 54-inch water main, 1.5 miles of 30-inch water main; a 5-million gallon capacity regional elevated storage reservoir and a 23-million gallon per day capacity booster station.		

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present no more than five (5) projects. Complete one Section 5 for each project.)		EXAMPLE PROJECT KEY NUMBER 1
a. TITLE AND LOCATION (City and State) Del Rio Ranch Avondale, AZ		b. YEAR COMPLETED PROFESSIONAL SERVICES 2007
		CONSTRUCTION (if applicable) N/A
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER Taylor Woodrow 6720 North Scottsdale Road, #390 Scottsdale, AZ 85253	d.DOLLAR AMOUNT OF PROJECT \$950,000	e. TOTAL COST OF PROJECT Construction Cost: \$8,500,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size and cost)

This project is located in the City of Avondale and included two miles of arterial improvements on El Mirage Road, Lower Buckeye Road, and Avondale Boulevard. The design improvements included paving, water, sewer, reclaimed water lines, water campus, well site, storm drain, signing, and striping plans. Coordination with MCDOT on Lower Buckeye Road was also required. Other special considerations included coordination with SRP for the improvements of 1.7 miles of irrigation ditches, the design of amenities and retention basins within the SRP power corridor, and a pedestrian tunnel under El Mirage Road.

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		EXAMPLE PROJECT KEY NUMBER 2
a. TITLE AND LOCATION (City and State) City of Avondale Wastewater Treatment Plant Upgrade: Aerobic Digester System Avondale, AZ		b. YEAR COMPLETED PROFESSIONAL SERVICES 2004
		CONSTRUCTION (if applicable) 2005
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER Public Works Department City of Avondale 1211 S. 4th St. Avondale, AZ 85323	d.DOLLAR AMOUNT OF PROJECT \$150,000	e. TOTAL COST OF PROJECT Construction Cost: \$1,300,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size and cost)

This project included the planning, design and construction management of a solids thickening facility for the City of Avondale. Also included was the design of solids dewatering facilities. CVL prepared a study evaluating several methods of solids thickening and recommended a dissolved air flotation (DAF) process for thickening solids at the wastewater treatment plant. A 1,425-gpm capacity DAF solids thickening process was designed and installed. CVL also prepared the design for centrifuges to handle up to 10 MGD plant flow.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		EXAMPLE PROJECT KEY NUMBER 3
a. TITLE AND LOCATION (City and State) Camino A Lago Peoria, Arizona		b. YEAR COMPLETED PROFESSIONAL SERVICES Sept. 2005 CONSTRUCTION (if applicable) Dec. 2007
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER CHI Construction	d. DOLLAR AMOUNT OF PROJECT \$435,000	e. TOTAL COST OF PROJECT Construction Cost: \$3.28 Million

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size and cost)
The Camino A Lago project is a 365 acre 1250 unit single family master planned community located in Peoria, Arizona. The project contained extensive drainage channel design to convey offsite flows. CVL worked closely with the Flood Control District to ensure the project was not delayed.

Special considerations included:

- Portions of the sewer line were designed within existing roadways that contained multiple existing utilities.
 - *Utility coordination was a critical component to the success of this project. CVL was able to coordinate efforts with utility companies during the early planning phase and was able to mitigate future issues.*
- The soil conditions consisted of sandy cobble material that makes sewer construction difficult.
 - *CVL was able to plan early and design to minimize the amount of sewer within the cobble conditions and reduce the need for trench shoring thereby reducing overall construction costs and minimizing safety issues.*
- Extensive storm drain, drainage channels and box culverts throughout the site added to sewer design difficulties.
 - *Preplanning of the sewer alignments and drainage requirements resulted in minimal storm drain, drainage channels and box culverts crossings. This reduced sewer depths and ultimately construction costs.*

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		EXAMPLE PROJECT KEY NUMBER 4
a. TITLE AND LOCATION (City and State) Santa Cruz Wash Channelization Project Pinal County, AZ		b. YEAR COMPLETED PROFESSIONAL SERVICES 2007
		CONSTRUCTION (if applicable) N/A
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER Westpac Development 8501 N. Scottsdale Road, Ste. 260 Scottsdale, AZ 85253	d.DOLLAR AMOUNT OF PROJECT \$1,200,000	e. TOTAL COST OF PROJECT Construction Cost: \$11,800,000
f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size and cost)		

This project involved studying 2,000 acres of existing Santa Cruz Wash flood plain. As part of the project, three miles of the existing Santa Cruz Wash would be improved. Improvements included a fully concrete-lined channel, concrete side slopes, dirt-lined channel, and concrete spreader basin structures. A new con-arch structure was also designed with capacity to carry over 12,000cfs below Anderson Road. As a part of the project our firm partnered with geotechnical engineers who tested the existing banks of the Maricopa Stanfield Irrigation District main canal. In coordination with the approval of the Bureau of Reclamation, based on the CVL soils data, the canal was determined by FEMA to be a certified levee. This information and subsequent channel design were reviewed by FEMA as part of the CLOMR submittal. The project has not been constructed but the CLOMR is approved and the 404 permit has been issued by the U.S. Army Corps of Engineers.

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) Canyon Trails Goodyear, AZ		22. YEAR COMPLETED PROFESSIONAL SERVICES 2001 to Present
		CONSTRUCTION (if applicable) Ongoing
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER D.R. Horton - Continental Series 16430 N. Scottsdale Rd., Ste. 200 Scottsdale, AZ 85254	d.DOLLAR AMOUNT OF PROJECT \$1.5 million	e. TOTAL COST OF PROJECT Construction Cost: \$ 15 million
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size and cost)		

Over the years, CVL has designed 12 miles of arterial and collector roadways, which included large diameter water distribution lines and sewer trunk mains. Over 5 miles of large capacity drainage channels were designed. Design also included water and wastewater master plans; sewage lift station upgrades; 2MG water reservoir and 4,500 gpm booster station; storm water pump station; 24" irrigation line; and 2.5 miles of 36", 54" and 60" sanitary interceptor sewer.

Design of all infrastructure was in close collaboration with Goodyear City staff.

6. ADDITIONAL INFORMATION

a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	15%
b. Percentage of Total Work Attributable to Non-Government Work:	85%

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: Les F. Olson Date: December 11, 2013

Name: Les F. Olson, PE, RLS Title: Director