

	Request for Qualifications Solicitation No. ADSP017-00006796 Description: 2017 Annual Professional Services List	Arizona Department of Administration State Procurement Office 100 N 15th Ave., Suite 201 Phoenix, AZ 85007
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Attachment 1
Offer and Acceptance Form

SUBMISSION OF OFFER: Undersigned hereby offers and agrees to provide qualifications for **2017 Annual Professional Services List** in compliance with the Solicitation indicated above and our Offer indicated by the latest dated version below:

Initial Offer:	1.	February 15, 2017	JS	
	date		initial	

Slater Hanifan Group

Offeror company name	11201 N. Tatum Blvd., #250
Address	Phoenix, AZ 85028
City State ZIP	32-0083110
Federal tax identifier (EIN or SSN)	



Signature of person authorized to sign Offer	Initials
Jerry Slater, P.E., Vice President	JS
Printed name and title	Patrick Lowry, Director of Phoenix Operations
Contact name and title	plowry@shg-inc.com 602-687-9664
Contact Email Address	Contact phone number

CERTIFICATION: By signature in the above, Offeror certifies that it:

- will not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, [Arizona] State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465;
- has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause will result in rejection of the Offer. Signing the Offer with a false statement will void the Offer, any resulting contract, and may be subject to legal penalties under law;
- complies with A.R.S. § 41-3532 when offering electronics or information technology products, services, or maintenance; and
- is not debarred from, or otherwise prohibited from participating in any contract awarded by federal, state, or local government.

ACCEPTANCE OF OFFER: State hereby ^{02/15/17} **accepts the initial Offer**, Revised Offer, or Best and Final Offer identified by number **ADSP017-00006796** at the top of this form, and which was dated ~~January 28, 2017~~ (the Accepted Offer). Offeror is now bound (as Contractor) to carry out the Work under the attached Contract, of which the Accepted Offer forms a part. Contractor is cautioned not to commence any billable work or to provide any material or perform any service under the Contract until Contractor receives the applicable Order or written notice to proceed from Procurement Officer.

State's Contract No. is: ADSP017-00006796. The effective date of the Contract is: ~~02-20-17~~ Contract awarded ~~02-15-17~~ 04/03/2017
04/03/17-01/31/18/

	
Procurement Officer signature	

Jerry Slater, P.E.	Gina DeCotiis
Procurement Officer printed name	

Contract qualification award can be viewed at <https://spo.az.gov/procurement-services/professional-services>



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Attachment 2-A
Experience and Capacity

STATE MAY DETERMINE YOUR SUBMITTAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

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 A.R.S § 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 A.R.S § 32-101(B.13.).

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

Structure: How a business is organized to accomplish its objectives (ie, Sole Proprietor, Limited Liability Company, Cooperative, Corporation, Partnership, S Corporation).

1.0 Five (5) Example Projects

List no more than five (5) **ARIZONA PROJECT** Example Projects Which Best Illustrate Firms Qualification for this contract in the chart provided below. 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 qualifications list contract. (NOTE: The integrity of the chart table columns shall remain unchanged, however the rows for each project may be expanded by the Offeror to accommodate the information).

- 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.



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Title and Location of Project	Design Completion Year	Construction Completion Year	Project Owner	Project Original Budget (or not to exceed amount)	Total Cost of the Project	Brief Description of Project
Verrado Detention Basin Design, Buckeye, AZ	May 2014	On-going	DMB Associates, Inc.	\$200,000	N/A	Drainage master planning of this 8,800 acre master planned community. The SHG team has been integral in the design of drainage structures including channels, storm drain systems, and large stormwater storage basins.
Pravada Water/Wastewater Master Plan, Kingman, AZ	April 2014	December 2015	Pravada Property Holdings, LLC	\$57,000	N/A	Wastewater Treatment Plant (IWWTP) for Pravada. This project included the design of a 240,000 gallon per day capacity effluent storage and pumping system, along with an associated transmission force main to the main golf course irrigation pond.
LHC Water Wastewater System Expansion Program	2012	2012	City of Lake Havasu	\$20,000	N/A	This project entailed the design of converting of 22,000 septic tanks to conventional sewers for the City of Lake Havasu. The project also included the

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Offer Forms (Attachments)

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						design and construction of three major lift stations, upgrading of two treatment plants and the construction of a third regional plant.
Estrella Community 11, Phase 1, Master Drainage Plan, Goodyear, AZ	2014	On-going	Newland Land Corporation	\$200,000	N/A	617 acre master planned residential community. The project included the preparation of the master drainage plan (design concept report) and the design of drainage infrastructure.
Cliffrose Solar, Mohave County, AZ	2015	On-going	Longview Solar, LLC	\$67,000	N/A	Prepared a Section 404 jurisdictional delineation and drainage analysis for this 1,100-acre site. The 404 jurisdictional delineation including a Significant Nexus Analysis, Hydrologic and Hydraulic Analyses, surface water hydrology, and sediment transport analysis for this planned utility scale solar energy plant was completed.

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Attachment 2-A
Experience and Capacity

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2.0 EMPLOYEES BY DISCIPLINE

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

Enter requested information in the chart provided below:

- a. Select disciplines from the List of Disciplines. For employees that do not qualify for any of the disciplines, select "Other".
- 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. (NOTE: The Offeror may insert or delete rows in the existing Employees by Discipline chart table on page six (6 as necessary to complete the requirements for Question 2).



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a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
CADD Technician	P	22	4 – Phoenix 3 – Lake Havasu 15 – Las Vegas
Civil Engineer	P	43	5 – Phoenix 3 – Lake Havasu 35 – Las Vegas
Construction Manager	P	3	1 – Lake Havasu 2 – Las Vegas
Construction Inspector	P	6	1 – Lake Havasu 5 – Las Vegas
Environmental Engineer	P	1	1 - Phoenix
Hydraulic Engineer	P	4	1 – Phoenix 3 – Las Vegas
Hydrologist	P	1	1 - Phoenix
Project Manager	P	12	2 – Phoenix 2 – Lake Havasu 8 – Las Vegas
Sanitary Engineer	P	5	5 – Las Vegas
Technician/Analyst	P	20	1 – Phoenix 19 – Las Vegas
Transportation Engineer	P	2	2 – Las Vegas
Water Resources Engineer	P	4	4 – Las Vegas
Other : Document Specialist	P	2	2 – Las Vegas
Other: Project Processor	P	6	1 – Phoenix 5 – Las Vegas
Other: Administrative	P	13	1 – Phoenix 1 – Lake Havasu 11 – Las Vegas
Other: IT	P	2	2 – Las Vegas
Total		146	146



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3.0 FIRMS EXPERIENCE AND REVENUE

- a. Firm shall complete the Excel spreadsheet titled "Amendment I Project Experience Number of Projects and Revenue", using same document title and upload in Excel format as an "Attachment" with firm's offer in ProcureAZ. ([NOTE: Amendment I version clarifies column instructions and additions of project experience categories](#)).

Completed

4.0 FIRMS SERVICES

- a. Firm shall complete the Excel spreadsheet titled "2017 Professional Services List of Firms Services" [shall be completed and uploaded in Excel format only as an "Attachment" in ProcureAZ at time of offer submission.](#)

Completed

Amendment I ADSP017-0006796 Project Experience Number of Projects and Revenue
ADSP017-0006796 2017 Annual Professional Services Qualifications List

FIRMS NAME (INSERT NAME): SLATER HANIFAN GROUP, INC.

TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only	TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only
Acoustics, Noise Abatement				Land Surveying			
Activity Centers				Landscape Architecture			
Aerial Photography; Airborne Data and Imagery Collection and Analysis				LEED Accredited A/E			
Agricultural Development; Grain Storage; Farm Mechanization				LEED Independent 3rd Party Building Commissioning			
Air Pollution Control				Libraries; Museums; Galleries			
Airports; Navais; Airport Lighting; Aircraft Fueling				Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)			
Airports; Terminals and Hangars; Freight Handling				Lighting (Interior; Display; Theater, Etc.)			
Animal Facilities				Lighting (Cave; Cavern)			
Anti-Terrorism/Force Protection				Mapping Location/Addressing Systems			
Area Master Planning				Materials Handling Systems; Conveyors; Sorters			
Auditoriums and Theaters				Materials Testing			
Automation; Controls; Instrumentation				Measurement / Verification / Conservation Water Consumption			
Barracks; Dormitories				Medical Related			
Bridge Design; Bridges				Metallurgy			
Cartography				Mining and Mineralogy			
Cemeteries (Planning and Relocation)				Modular Systems Design; Pre-Fabricated Structures or Components			
Chemical Processing and Storage				Mold Investigation			
Child Care/Development Facilities				Museums			
Codes; Standards; Ordinances				Nuclear Facilities; Nuclear Shielding			
Cold Storage; Refrigeration and Fast Freeze				Office Buildings; Industrial Parks	19		2
Commercial Building (Low Rise); Shopping Centers	17	2	3	Outdoor Recreation			
Communications Systems; TV; Microwave				Petroleum and Fuel (Storage and Distribution)			
Community Facilities				Phase I Environmental			
Computer Facilities				Photogrammetry			
Conservation and Resource Management				Pipelines (Cross-Country - Liquid and Gas)			
Construction Management	19	2	1	Plumbing and Piping Design			
Construction Materials Testing	1			Pneumatic Structures, Air-Support Buildings			
Construction Surveying				Power Generation, Transmission, Distribution			
Controls and Electronics Engineer				Prisons and Correctional Facilities			
Corrosion Control; Cathodic Protection Electrolysis				Product, Machine Equipment Design			
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	4		1	Public Safety Facilities			
Cryogenic Facilities				Radar; Sonar; Radio and Radar Telescopes			
Dams (Concrete; Arch)				Radio Frequency Systems and Shieldings			
Dams (Earth; Rock); Dikes; Levees				Railroad; Rapid Transit			
Desalination (Process and Facilities)				Recreation Facilities (Parks, Marinas, Etc.)	11		
Design & Planning Structured Parking Facilities				Refrigeration Plants/Systems			
Design-Build - Preparation of Requests for Proposals				Rehabilitation (Buildings; Structures; Facilities)			
Detention Security Systems				Research Facilities			
Digital Elevation and Terrain Model Development				Resources Recovery; Recycling			
Digital Orthophotography				Rivers; Canals; Waterways; Flood Control			
Dining Halls; Clubs; Restaurants				Roof Infrared Imaging to Identify Water Leaks			
Disability / Special Needs				Roofing			
Dredging Studies and Design				Safety Engineering; Accident Studies; OSHA Studies			
Ecological and Archeological Investigations				Security Systems; Intruder and Smoke Detection			
Educational Facilities; Classrooms	4			Seismic Designs and Studies			
Electrical Studies and Design				Sewage Collection, Treatment and Disposal	8	2	1
Electronics				Soils and Geologic Studies; Foundations			
Elevators; Escalators; People-Movers				Solar Energy Utilization	2		1
Energy / Water Auditing Savings				Solid Wastes; Incineration; Landfill			
Energy Conservation; New Energy Sources				Special Environments; Clean Rooms, Etc.			
Environmental Impact Studies, Assessments or Statements				Specifications Writing			
Fallout Shelters; Blast-Resistant Design				Storm Water Handling and Facilities	23	2	2
Fire Protection				Structural Design; Special Structures			
Fisheries; Fish Ladders				Surveying; Platting; Mapping; Flood Plain Studies			
Forensic Engineering				Sustainable Design			
Garages; Vehicles Maintenance Facilities; Parking				Swimming Pools			
Gas Systems (Propane; Natural, Etc.)				Testing and Inspection Services			
Geodetic Surveying; Ground and Airborne				Topographic Surveying and Mapping			
Heating; Ventilating; Air Conditioning				Towers (Self-Supporting and Guyed Systems)			
Highways; Streets; Airfield Paving; Parking Lots				Toxicology			
Historical Preservation				Traffic and Transportation Engineering	14		
Hospital and Medical Facilities				Traffic Studies	4		
Hotels; Motels				Transportation			
Housing (Residential, Multi-Family; Apartments; Condominiums)	135		4	Tunnels and Subways			
Hydraulics and Pneumatics				Urban Renewals; Community Development			
Hydrographic Surveying				Utilities (Gas and Steam)			
Industrial Buildings; Manufacturing Plants	7		1	Value Analysis; Life-Cycle Costing			
Industrial Processes; Quality Control				Warehouse and Depots			
Industrial Waste Treatment				Waste Water Treatment Facility			
Intelligent Transportation Systems	4			Water Resources; Hydrology; Ground Water	3	2	1
Infrastructure				Water Supply; Treatment and Distribution			
Irrigation; Drainage				Water Well Rehabilitation; Water Well Work			
Judicial and Courtroom Facilities				Wind Tunnels; Research/Testing Facilities Design			
Laboratories; Medical Research Facilities				Zoning; Land Use Studies			
Labs - General							
Labs - Research - Dry							
Labs - Research - Wet							

Professional Services Index Number	Revenue
1.	Less than \$100,000
2.	\$100,000 to less than \$250,000
3.	\$250,000 to less than \$500,000
4.	\$500,000 to less than \$1 Million
5.	\$1 Million to less than \$2 Million
6.	\$2 Million to less than \$5 Million
7.	\$5 Million to less than \$10 Million
8.	\$10 Million to less than \$25 Million
9.	\$25 Million to less than \$50 Million
10.	\$50 Million or greater



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EXPERIENCE REFERENCES:

THE PRIME FIRM SHALL LIST A TOTAL OF THREE (3) CLIENT REFERENCES FOR ANY PROJECTS COMPLETED IN THE LAST YEAR BY THE FIRM (OR A BRANCH LOCATION). REFERENCES MAY BE CONTACTED BY ANY ELIGIBLE AGENCY.

1	Client Company/Address	Contact	Begin Date	End Date
	Lake Havasu City Arizona	Greg Froslieg	2012	2012
	Phone Number	Email Address		
	928-208-1457	froslieg@lhcaz.gov		
	List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.			
	Lake Havasu City Water/Wastewater System Expansion Program			
	Services performed similar to those described in Solicitation			
	The design of converting of 22,000 septic tanks to conventional sewers for the City of Lake Havasu.			
2	Client Company/Address	Contact	Begin Date	End Date
	DMB Associates, Inc.	Dave Nilsen	2014	On-going
	Phone Number	Email Address		
	480-367-7619	dnilsen@dmbinc.com		
	List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.			
	Verrado Detention Basin Design			
	Services performed similar to those described in Solicitation			
	The design of drainage structures including channels, storm drain systems, and large stormwater storage basins.			
3	Client Company/Address	Contact	Begin Date	End Date
	Newland	Stuart Barney	2014	On-going
	Phone Number	Email Address		
	602-468-0800	sbarney@newlandco.com		
	List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.			
	Estrella Community 11, Phase 1, Master Drainage Plan			
	Services performed similar to those described in Solicitation			
	The preparation of the master drainage plan (design concept report) and the design of drainage infrastructure.			

End of Attachment 2-A

PART 4 of the Solicitation Documents:
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Attachment 2-B
Organization Profile

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

ORGANIZATION PROFILE

Firm Name	Slater Hanifan Group, Inc.	Year established	2003	
Principal address (street, city, state)	5740 S. Arville Street, Suite 216, Las Vegas, NV 89118			
Entity type:	Professional Services - Engineering	Structure:	Domestic Corporation	
Branch or Division:	11201 N. Tatum Blvd., #250, Phoenix, AZ 85028	Parent:	Nevada	
Years the organization has conducted business in Arizona.			8	
Contract Representatives to Contact				
	Name	Title	Telephone Number	E-Mail Address
1.	Jerry Slater, P.E.	Vice-President	(602) 687-9664	jslater@shg-inc.com
2.	Patrick Lowry	Director of Phoenix Operations	(602) 687-9664	plowry@shg-inc.com
3.	Jack Moody, P.E. CFM	Project Manager	(602) 687-9664	jmoody@shg-inc.com
Firm Professional Licenses/Certifications (INCLUDE COPY OF DOCUMENT IN OFFER)				
	Description	Issuer	Number	Expiration
1.	Firm Registration: Arizona Board of Technical Registration	State of Arizona	14640-0	8/31/2017
2.	Branch Office Registration: Arizona Board of Technical Registration	State of Arizona	14640-1	10/31/2017
3.	Branch Office Registration: Arizona Board of Technical Registration	State of Arizona	14640-2	10/31/2017


End of Attachment 2-B

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Attachment 3-A
Method Proposal
(Method of Approach)

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 3-A

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Attachment 3-B
Key Personnel Proposal

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section and Attach as titled in ProcureAZ with offer. Resumes shall not be listed in Attachment 3-B as Supplements.

1	Name:	Jerry Slater, PE	How long with company?	14 years
	Current position in company:	Vice President/Principal-in-Charge	How long in position?	14 years
	Position for the Services:	Principal-in-Charge	How much of time will be dedicated to the Services?	5 %
	What primary functions will be assigned?	Jerry Slater is a Vice-President and co-founder of Slater Hanifan Group, Inc. (SHG). He is a Professional Civil Engineer and will be responsible for the day to day business operations, strategic planning, client management, and oversight of SHG's Quality Control Program. Jerry is also responsible for the program management of master-planned communities, and as a working Principal, is often in responsible charge of projects in SHG's commercial and industrial service sector.		
	Describe person's experience in performing services like those that are to be assigned:	Jerry Slater's career experience is broad based and includes program-level scheduling and project management, land planning, mapping, hydrology, mass grading and drainage, roadways, site development, water and wastewater facilities, dry utilities, public presentations, agency coordination, permitting, and construction phase services. Jerry is also responsible for the company's formal Quality Control program, and for training and assisting the project management staff in their daily duties and career development.		
	List person's job-related training and education:	BS, Civil Engineering, Portland State University, Oregon, 1996 Licenses: PE, Civil, Arizona, # 33926 PE, Civil, Nevada, # 14167 PE, Civil, Oregon, # 19302 PE, Civil, Utah, # 3082917-2202		
	Resume:	01_J Slater Resume.pdf		



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2	Name:	Patrick Lowry	How long with company?	8 years
	Current position in company:	Director of Phoenix Operations	How long in position?	8 years
	Position for the Services:	Office Manager	How much of time will be dedicated to the Services?	10 %
	What primary functions will be assigned?	Patrick Lowry is a civil engineering consultant with over 18 years of experience in full-phase civil engineering and construction administration for private-sector and public-sector site infrastructure projects. Patrick leads and manages projects from initial site research, feasibility studies, and conceptual site design, to final design, construction phase services, and final certifications. To assure that projects run efficiently and profitably, Patrick coordinates closely with the design team, municipal agencies, and other key stakeholders. Patrick has a proven track record as a leader who knows what it takes to both win and manage work profitably, while providing exceptional client service.		
	Describe person's experience in performing services like those that are to be assigned:	Patrick's expertise is in large-scale commercial and industrial sites with complex design challenges and multi-jurisdictional design and permitting requirements. Patrick also has a wide range of experience in municipal and residential/multi-family projects. In the preliminary design phase, including site inspections, Patrick prepares due diligence packages, preliminary opinions of cost and compiles design development packages that help to identify engineering related issues that affect the overall cost of development and that may require additional municipal approval requirements. During final engineering, Patrick works with the design team and municipalities to offer creative and cost-effective design solutions and to secure necessary approvals in a timely manner. During the construction phase, Patrick works closely with the development team and site contractors to meet project objectives. His experience includes site observations, request for information review and response, construction materials review, construction punch-list preparation, as-built/record drawing preparation, and completion certification letters.		
	List person's job-related training and education:	Experience includes large scale commercial and industrial sites with complex design challenges and multi-jurisdictional designs. Experience in collaborating with environmental and jurisdictional agencies. Experience with infill projects requiring comprehensive knowledge of existing conditions and municipal requirements.		
	Resume:	02_P Lowry Resume.pdf		



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3	Name:	Jack Moody, PE, CFM	How long with company?	3 years
	Current position in company:	Project Manager	How long in position?	3 years
	Position for the Services:	Project Manager	How much of time will be dedicated to the Services?	50 %
	What primary functions will be assigned?	Jack Moody will serve as Project Manager. He is a Professional Civil Engineer and Certified Floodplain Manager and will be responsible for managing the drainage, Section 404 Permitting, and flood control, including hydrology and hydraulics for projects assigned to SHG. He will successfully manage and oversee assigned projects.		
	Describe person's experience in performing services like those that are to be assigned:	Jack Moody brings over 30 years of experience to Slater Hanifan Group, Inc. (SHG). His experience consists of hydraulic and hydrologic routing, drainage structure design, watershed modeling, floodplain mapping, erosion analysis, flood control design, and master drainage plan preparation throughout the Southwest. His experience includes all aspects of Section 404 of the Clean Water Act permitting process, as administered by the U.S. Army Corps of Engineers Regulatory Division and waters of the U.S. delineations, particularly specializing in the ephemeral watercourses of the arid southwest. Jack has prepared numerous Section 404 permit applications, including authorization requests to construct under a Nationwide Permit, authorization under a Regional General Permit, and Individual 404 Permits. He has performed floodplain studies for over 500 miles of rivers, washes, railroads, and canals, and has worked closely with many Flood Control Districts across the state of Arizona as well as Nevada. He also has experience in the preparation and management of approval of numerous CLOMR and LOMR submittals, floodplain re-delineations, open channel design, bank stabilization design, and floodplain fringe fill.		
	List person's job-related training and education:	BS, Civil Engineering, University of Arizona, Tucson, AZ 1983 Licenses: PE, Civil, Arizona, # 22208 PE, Civil, Nevada, # 11653 Certified Floodplain Manager (CFM), # US-03-00968		
	Resume:	03_J Moody Resume.pdf		



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4	Name:	Roger Theis, PE	How long with company?	4 years
	Current position in company:	Director of Land Development	Current position in company:	4 Years
	Position for the Services:	Project Engineer	How much of time will be dedicated to the Services?	25 %
	What primary functions will be assigned?	Roger Theis will serve as a Project Engineer. He is a Professional Civil Engineer with over 18 years of experience working on a wide variety of project types, including mixed-use, commercial, residential, multi-family, healthcare, and landside aviation. Roger is known for innovative problem solving, benchmark Client service and skillful relationship-building with all his partners. He routinely meets with clients, the design team, sub-consultants, and reviewing agencies to keep projects on track through the planning, design, approval, and construction process. Roger's familiarity with project contingencies and a deep, broad understanding of land development help him identify and creatively solve potential challenges and obstacles before they occur. He also will be responsible for conformance with the Arizona Pollutant Discharge Elimination System (AZPDES) compliance.		
	Describe person's experience in performing services like those that are to be assigned:	Through this experience, Roger has become an expert in site development in Arizona and he possesses a thorough understanding of all of the regulations and requirements associated with planning, engineering, design, and construction. He is an expert in unique design, cost-reduction strategies and time-saving solutions. Roger also has expertise in paving, grading, drainage, water, and sewer design will be critical to the success of this project.		
	List person's job-related training and education:	BS, Civil Engineering, North Dakota State University, Fargo, ND, 1998 License: PE, Civil, Arizona, # 38805		
	Resume:	04_R Theis Resume. pdf		



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5	Name:	Joe Lockett, PE, CFM	How long with company?	3 years
	Current position in company:	Senior Project Engineer	Current position in company:	3 Years
	Position for the Services:	Project Engineer	How much of time will be dedicated to the Services?	50 %
	What primary functions will be assigned?	Joe Lockett is a Professional Civil Engineer and Certified Floodplain Manager and will serve as the Project Engineer for assigned project. He will be responsible for hydraulic design, including scour mitigation and bank protection design. He will prepare specifications and cost estimates for various assigned projects. Joe has a strong ability to work independently as well as a contributing team member and is budget conscious and accustomed to working inside time constraints for the clients benefit.		
	Describe person's experience in performing services like those that are to be assigned:	Joe Lockett brings over 18 years of experience to the Flood Control Department of Slater Hanifan Group, Inc. (SHG). His experience in civil drainage design includes work in the public and private sectors, along with several years of experience working with the federal government as a student intern/researcher. Joe has extensive background in hydrologic theory, assumptions, limitations, modeling techniques, and current software packages. He has an extensive understanding of hydraulic modeling techniques and methods for channels, culverts, surface interception, storm drain systems, and energy dissipation. He also has experience with accepted methods for calculation of scour and sediment transport. Joe is experienced with FEMA floodplain delineation methods as well as the submittal and review process for CLOMR/LOMR packages, as well as multiple projects he has worked on involving Corps of Engineers 404 Jurisdictional delineations and submittals.		
	List person's job-related training and education:	BS, Hydrology, University of Arizona, Tucson, AZ, 1998 Licenses: PE, Civil, Arizona, # 45646 Certified Floodplain Manager (CFM) # US-11--5942		
	Resume:	05_J Lockett Resume.pdf		



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6	Name:	Joseph Petrucci, PE, LEED AP	How long with company?	1 Years
	Current position in company:	Project Engineer II	Current position in company:	1 Year
	Position for the Services:	Project Engineer	How much of time will be dedicated to the Services?	50 %
	What primary functions will be assigned?	Joe Petrucci is a Professional Civil Engineer and will serve as Project Engineer for assigned projects. He will be responsible for project design and coordination. He will prepare site designs, construction plans and documents using AutoCAD including, grading, paving, water, wastewater, and storm water design plans.		
	Describe person's experience in performing services like those that are to be assigned:	Joe Petrucci has over 12 years of experience in civil engineering analysis and design for both public and private projects. He has experience with large scale residential development master plans as well as experience with public works, institutional, and commercial development. Joe has tremendous experience in the preparation of paving, grading, drainage, water, and sewer construction documents.		
	List person's job-related training and education:	BS, Civil Engineering Tech, Fairleigh Dickenson University, Teaneck, NJ, 2003 Licenses: PE, Civil, Arizona, # 54540 LEED Accredited Professional		
	Resume:	06_J Petrucci Resume.pdf		



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7	Name:	Kevin Murphy, PE	How long with company?	3 years
	Current position in company:	Director of Lake Havasu Operations	Current position in company:	3 Years
	Position for the Services:	Project Manager	How much of time will be dedicated to the Services?	25 %
	What primary functions will be assigned?	Kevin Murphy is a Professional Civil Engineer and will be the Project Manager for assigned projects. He will be responsible for managing projects and providing oversight and directions. He will also provide quality control and assurance and ensure successful completion of assigned projects.		
	Describe person's experience in performing services like those that are to be assigned:	With 30 years of municipal project management and public works experience (including 19 years in Mohave County), Kevin Murphy, Director of Operations, has exceptional industry knowledge and client-service skills. Prior to joining SHG, he was the public works director for Lake Havasu City where he oversaw the city's capital budget for infrastructure development, operations, and maintenance. Kevin has overseen numerous water system improvement, land development, landscape architecture, sewer rehabilitation, roadway improvement, water line extension, and dam rehabilitation projects. He is experienced in preparing and delivering presentations to bond rating agencies, bond insurance companies, community organizations, and neighborhood groups, and he has successfully collaborated with environmental and jurisdictional agencies throughout the Southwest.		
	List person's job-related training and education:	BS, Civil Engineering, University of New Mexico, Albuquerque, NM, 1987 License: PE, Civil, Arizona, # 31791		
	Resume:	07_K Murphy Resume.pdf		



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8	Name:	Sean Perrotto, PE	How long with company?	3 Year
	Current position in company:	Project Engineer	Current position in company:	3 Year
	Position for the Services:	Project Engineer	How much of time will be dedicated to the Services?	50 %
	What primary functions will be assigned?	Sean Perrotto is a Professional Civil Engineer and will be the Project Engineer for assigned projects. He will be responsible for providing engineering design and construction support services during construction. He will perform site visits and conduct meetings, review shop drawings, RFI submittals, design clarifications, and field change directives.		
	Describe person's experience in performing services like those that are to be assigned:	Sean Perrotto is a Project Engineer who brings 16 years of experience in planning and design of water, sewer, grading, drainage, and hydrology to Slater Hanifan Group, Inc. He has worked with a number of large developers, ranging in size from single-family homes to 640-acre community developments. He has also worked with numerous city and county agencies as well as municipalities to develop clear, accurate, and comprehensive engineering documents, identify utilities, and coordinated with utility companies to resolve conflicts. He was lead engineer on the multi-year drainage design services and water CIP improvement projects for Lake Havasu City and wastewater CIP improvement projects for Bullhead City.		
	List person's job-related training and education:	BS, Civil Engineering, California State University, Northridge, CA 2005 License: PE, Civil, Arizona, # 51810		
	Resume:	08_S Perrotto Resume.pdf		

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ATTACHMENT 3-B SUPPLEMENTS:

(For submission of additional Key Personnel qualifications beyond the number of forms provided in the Offer Documents: Offeror shall copy the Key Personnel Form in its entirety and complete in a separate Word Document for submission with the offer, and list file name below or type "None" on first line if not applicable. Offeror shall title Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	None			

(NOTE: The Offeror may insert additional rows as required).

End of Attachment 3-B



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Attachment 3-C
Proposed Subcontractors

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

Check "NO" if you WILL NOT subcontract any portion of the Work and will therefore be carrying out all of the Work with your own personnel.

NO, the Offeror will not subcontract any portion of the Work.

If you WILL subcontract any portion of the Work, check "YES" below and list name of persons or companies you propose to use as subconsultants.

- Fill in the information in the chart below for every proposed subcontractor – indicate the role and services work the subconsultant may provide in performing any of the services as outlined in the Requirements Document in the solicitation.
- Offeror shall complete an Attachment 3-B Key Personnel Form in its entirety for each proposed subcontractor and submit with offer. The term "Subconsultant" shall be annotated in parenthesis after each subcontractor key personnel name typed in the "Name" section of the 3-B form.
- State may demand additional information about proposed subcontractors as a precondition of award.

YES, the Offeror will use the Subcontractors listed below:

	Subcontractor Key Personnel Name; Subcontractor Firm Name and Contact Information	List Proposed Subcontractor Role(s) and Services	Capacity % Dedicated to Perform the Proposed Role/Service For Any Project Under This Contract
1.	Name		
1.	Name		
2.	Name		
3.	Name		
4.	Name		
5.	Name		
6.	Name		
7.	Name		
8.	Name		
9.	Name		



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ATTACHMENT 3-C SUPPLEMENTS:

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	Enter or type "None for Sub #1"	x	x	x
2.	Enter or type "None for Sub #2"	x	x	x
3.	Enter or type "None for Sub #3"	x	x	x
4.	Enter or type "None for Sub #4"	x	x	x
5.	Enter or type "None for Sub #5"	x	x	x
6.	Enter or type "None for Sub #6"	x	x	x
7.	Enter or type "None for Sub #7"	x	x	x
8.	Enter or type "None for Sub #8"	x	x	x
9.	Enter or type "None for Sub #9"	x	x	x
10.	Enter or type "None for Sub #10"	x	x	x

End of Attachment 3-C



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Attachment 3-D
Performance Guarantee

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 3-D

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Attachment 3-E
Israel Boycott Form

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract. Recently legislation has been enacted to prohibit the state from contracting with companies currently engaged in a boycott of Israel. To ensure compliance with A.R.S. §35-393.01. This form must be completed and returned with the response to the solicitation and any supporting information to assist the State in making its determination of compliance.


As defined by A.R.S. §35-393.01:

1. "Boycott" means engaging in a refusal to deal, terminating business activities or performing other actions that are intended to limit commercial relations with Israel or with persons or entities doing business in Israel or in territories controlled by Israel, if those actions are taken either:
 - (a) In compliance with or adherence to calls for a boycott of Israel other than those boycotts to which 50 United States Code section 4607(c) applies.
 - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Company" means a sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, and includes a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate.
3. "Direct holdings" means all publicly traded securities of a company that are held directly by the state treasurer or a retirement system in an actively managed account or fund in which the retirement system owns all shares or interests.
4. "Indirect holdings" means all securities of a company that are held in an account or fund, including a mutual fund, that is managed by one or more persons who are not employed by the state treasurer or a retirement system, if the state treasurer or retirement system owns shares or interests either:
 - (a) together with other investors that are not subject to this section.
 - (b) that are held in an index fund.
5. "Public entity" means this State, a political subdivision of this STATE or an agency, board, commission or department of this state or a political subdivision of this state.
6. "Public fund" means the state treasurer or a retirement system.
7. "Restricted companies" means companies that boycott Israel.
8. "Retirement system" means a retirement plan or system that is established by or pursuant to title 38.

All offerors must select one of the following:

- My company **does not** participate in, and agrees not to participate in during the term of the contract a boycott of Israel in accordance with A.R.S. §35-393.01. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
- My company **does** participate in a boycott of Israel as defined by A.R.S. §35-393.01. :

By submitting this response, proposer agrees to indemnify and hold the State, its agents and employees, harmless from any claims or causes of action relating to the State's action based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by the State in defending such an action.

Slater Hanifan Group, Inc. <hr/> <p style="text-align: center;">Company Name</p> 11201 N. Tatum Blvd., #250 <hr/> <p style="text-align: center;">Address</p> Phoenix, AZ 85028 <hr/> <p>City State Zip</p>	 <hr/> <p style="text-align: center;">Signature of Person Authorized to Sign</p> Jerry Slater, PE <hr/> <p style="text-align: center;">Printed Name</p> Vice President, Principal-in-Charge <hr/> <p style="text-align: center;">Title</p>
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End of Attachment 3-E

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Attachment 4
Pricing Sheet

RESERVED FOR AWARDED DESIGN PROFESSIONAL SERVICE ORDER CONTRACT

End of Attachment 4

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Attachment 5-A
Confidential Information Designation

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract. Recognizing there may be materials included in a solicitation response that are proprietary or a trade secret, a process is set out in A.A.C. R2-7-103 (copy attached) that will allow qualifying materials to be designated as confidential and excluded from disclosure. For purposes of this process the definition of "trade secret" will be the same as that set out in A.A.C. R2-7-101(52).

Complete this form return it with your Offer along with the appropriate supporting information to assist State in making its determination as to whether any of the materials submitted as part of your Offer should be designated confidential because the material is proprietary or a trade secret and therefore not subject to disclosure.

STATE WILL NOT CONSIDER ANY MATERIAL IN YOUR OFFER "CONFIDENTIAL" UNLESS DESIGNATED ON THIS FORM.

Check one of the following – if neither is checked, State will assume that as equivalent to "DOES NOT":

<input checked="" type="radio"/>	This response DOES NOT contain proprietary or trade secret information. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
<input type="checkbox"/>	This response DOES contain trade secret information because it contains information that: <ol style="list-style-type: none"> 1. Is a formula, pattern, compilation, program, device, method, technique or process, AND 2. Derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; AND 3. Is the subject of efforts by myself or my organization that are reasonable under the circumstances to maintain its secrecy.


NOTE: Failure to attach an explanation may result in a determination that the information does not meet the statutory trade secret definition. All information that does not meet the definition of trade secret as defined by A.A.C. R2-7-101(52) will become public in accordance with A.A.C. R2-7-C317. State may make its own determination on materials in accordance with A.A.C. R2-7-103.

If State agrees with Offeror's designation of trade secret or confidentiality and the determination is challenged, the undersigned hereby agrees to cooperate and support the defense of the determination with all interested parties, including legal counsel or other necessary assistance.

By submitting this response, Offeror agrees that the entire Offer, including confidential, trade secret and proprietary information may be shared with an evaluation committee and technical advisors during the evaluation process. Offeror agrees to indemnify and hold State, its agents and employees, harmless from any claims or causes of action relating to State's withholding of information based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by State in defending such an action.

Slater Hanifan Group, Inc.

Offeror Company Name		
11201 N. Tatum Blvd, #250		
Address		
Phoenix,	AZ	85028
City	State	Zip


Signature of Authorized Person
Jerry Slater, PE
Printed Name
Vice President/Principal-in-Charge
Title

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ATTACHMENT 5-A SUPPLEMENTS:

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	None	x	x	x

End of Attachment 5-A



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***Copy of A.A.C. R2-7-103 [Confidential Information]
as was current at time of Solicitation issuance***

PROVIDED FOR REFERENCE ONLY

- A. *If a person wants to assert that a person's offer, specification, or protest contains a trade secret or other proprietary information, a person shall include with the submission a statement supporting this assertion. A person shall clearly designate any trade secret and other proprietary information, using the term "confidential". Contract terms and conditions, pricing, and information generally available to the public are not considered confidential information under this Section.*
- B. *Until a final determination is made under subsection (C), an agency chief procurement officer shall not disclose information designated as confidential under subsection (A) except to those individuals deemed by an agency chief procurement officer to have a legitimate state interest.*
- C. *Upon receipt of a submission, an agency chief procurement officer shall make one of the following written determinations:*
- 1. The designated information is confidential and the agency chief procurement officer shall not disclose the information except to those individuals deemed by the agency chief procurement officer to have a legitimate state interest;*
 - 2. The designated information is not confidential; or*
 - 3. Additional information is required before a final confidentiality determination can be made.*
- D. *If an agency chief procurement officer determines that information submitted is not confidential, a person who made the submission shall be notified in writing. The notice shall include a time period for requesting a review of the determination by the state procurement administrator.*
- E. *An agency chief procurement officer may release information designated as confidential under subsection (A) if:*
- 1. A request for review is not received by the state procurement administrator within the time period specified in the notice; or*
 - 2. The state procurement administrator, after review, makes a written determination that the designated information is not confidential.*

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Attachment 5-B
Conformance Statements

STATE WILL NOT CONSIDER ANY EXCEPTIONS UNLESS DESIGNATED ON THIS FORM.

READ THE INSTRUCTIONS TO OFFERORS BEFORE TAKING ANY EXCEPTIONS – TAKING EXCEPTIONS CAN BE
GROUNDS FOR STATE REJECTING YOUR OFFER IN EVALUATION.

CONFORMANCE TO THE INSTRUCTIONS:
(PART 1 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents and attests that it’s Offer complies with both.
- NO – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents, and attests that it’s Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 1.**

CONFORMANCE TO THE CONTRACT TERMS AND CONDITIONS:
(PART 2 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the [AIA Documents \(for state agencies only\), and Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices, in Part 2 of the Solicitation Documents](#) and attests that its Offer [complies with both.](#)
- NO – Offeror acknowledges that it has read and understands the [AIA Documents \(for state agencies only\), and Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices](#) in Part 2 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 2.**

CONFORMANCE TO THE TECHNICAL DOCUMENTS:
PART 3 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the [Requirements Document and the Compensation Document](#) in Part 3 of the Solicitation Documents and attests that its Offer complies with both.
- NO – Offeror acknowledges that it has read and understands the [Requirements Document and the Compensation Document](#), in Part 3 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 3.**

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ATTACHMENT 5-B Supplement No. 1:

Exceptions to Instructions

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
Section 1-A: Solicitation Details Summary		
x	x	x
x	x	x
x	x	x
Section 1-B: Instructions to Offerors		
x	x	x
x	x	x
x	x	x

Slater Hanifan Group, Inc.



Company Name

Signature of Person Authorized to Sign

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ATTACHMENT 5-B Supplement No. 2:
Exceptions to Contract Terms & Conditions

Article/ Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
Section 2-A: Special Terms & Conditions		
x	x	x
x	x	x
x	x	x
x	x	x
x	x	x
Section 2-B: Uniform Terms & Conditions		
x	x	x
x	x	x
x	x	x
Section 2-C: AIA Documents with AZ Modifications		
x	x	x
x	x	x

Slater Hanifan Group, Inc.



Company Name

Signature of Person Authorized to Sign

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ATTACHMENT 5-B Supplement No. 3:
Exceptions to Technical and Commercial

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
Section 2-A Scope of Work (Requirements Document)		
x	x	x
x	x	x
x	x	x
x	x	x
x	x	x
Section 2-B: Compensation Document		
x	x	x
x	x	x
x	x	x
x	x	x
x	X	x

Slater Hanifan Group, Inc.



Company Name

Signature of Person Authorized to Sign

End of Attachment 5-B



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Attachment 5-C
Insurance Evidence

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 5-C



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Attachment 5-D
Offer Checklist

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT SUBMIT ALL ATTACHMENTS.

	DOCUMENT	SUBMITTED
1.	Attachment 1: Offer and Acceptance Form	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
2.	Attachment 2-A: Experience and Capacity	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
3.	Attachment 2-A: References	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
4.	Attachment 2-B: Organization Profile	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
5.	Attachment 3-A: Method Proposal – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
6.	Attachment 3-B: Key Personnel Proposal	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
7.	Attachment 3-C: Proposed Subcontractors – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
8.	Attachment 3-D: Performance Guarantee – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
9.	Attachment 3-E: Israel Boycott Form	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
10.	Attachment 4: Pricing Sheet – RESERVED FOR AWARD	<input type="checkbox"/> YES, <input checked="" type="checkbox"/> no
11.	Attachment 5-A: Confidential Information Designation	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
12.	Attachment 5-B: Conformance Statements	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
13.	Attachment 5-C: Insurance Evidence – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
14.	Attachment 5-D: Offer Checklist	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
15.	Excel File: Project Experience Number of Projects and Revenue	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
16.	Excel File: 2017 Professional Services List of Firms Services	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no

End of Attachment 5-D

End of Part 4

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Jerry Slater, PE

Vice President/Principal-in-Charge



Education:

- BS, Civil Engineering, Portland State University, OR, 1996

License | Registration:

- PE, Civil, Nevada, 14167
- PE, Civil, Oregon, 19302
- PE, Civil, Utah, 3082917-2202
- PE, Civil, Arizona 33926

Years of Experience:

- Career – 25 years
- SHG – 13 years

Professional Affiliations:

- Southern Nevada Home Builders Member, 820361
- National Association of Industrial and Office Properties Member, 150928
- ACEC

Jerry Slater is a Vice-President and co-founder of Slater Hanifan Group, Inc. (SHG). His responsibilities include day to day business operations, strategic planning, client management, and oversight of SHG's Quality Control Program. Jerry is also responsible for the program management of master-planned communities, and as a working Principal, is often in responsible charge of projects in SHG's commercial and industrial service sector. His career experience is broad based and includes program-level scheduling and project management, land planning, mapping, hydrology, mass grading and drainage, roadways, site development, water and wastewater facilities, dry utilities, public presentations, agency coordination, permitting, and construction phase services. Jerry is also responsible for the company's formal Quality Control program, and for training and assisting the project management staff in their daily duties and career development.

Relevant Experience

Skye Canyon Master Plan, Las Vegas, NV – Program Manger

Jerry has been the client's Program Manager for this 1,600 acre, 9,000 residential unit master-planned community in northwest Las Vegas since 2009. Working with the current land owners, SHG is in the process of reworking the land use plan and all associated infrastructure with the project including updating the master hydrology, traffic, sewer, and water studies. He has been finding creative, win-win solutions to save initial and ultimate infrastructure costs as compared to the previous planning completed in 2006, especially in the areas of the roadway and flood control systems.

Park Highlands Master Plan, North Las Vegas, NV – Program Manger

Jerry has been the client's Program Manager for this 2,750 acre, 13,500 residential unit master-planned community in North Las Vegas since 2010. Working with a number of land owners of the property, SHG is in the process of reworking the land use plan and all associated infrastructure with the project including updating the master hydrology, traffic, sewer, and water studies. A critical issue with Park Highlands is the costly storm drainage infrastructure system previously designed. He has been instrumental in value engineering the project and finding creative, cost effective ways to handle the drainage system.

Villages at Tule Springs Master Plan, North Las Vegas, NV – Program Manger

Program Manager for this 2,200 acre, 8,700 residential unit master-planned community in North Las Vegas since 2010. Working with the land owner of the property, SHG is in the process of reworking the land use plan and all associated infrastructure with the project including updating the master hydrology, traffic, sewer, and water studies. A change in upstream hydrologic soil characteristic and alluvial fans required significant changes to the previously approved Master Plan. Jerry has been instrumental in the re-design of all major infrastructure including creating a process for expanding the North Las Vegas Detention Basin and the addition of a lower outfall pipe.

Lake Las Vegas Master Plan, Henderson, NV – Program Manger

Jerry has been the Program Manager for Lake Las Vegas design projects since 2005, which includes extensive revisions to the community's planning documents and standards, mapping, master studies, and infrastructure designs. Major projects include Local Improvement District T-16, which required revisions to the Engineer's Report, modifications to a sewer lift station, revisions to water and sewer pipeline alignments, and significant storm drain revisions. He has been instrumental in the revised planning for Lake Las Vegas Phase II, also known as The Falls. This effort includes map revisions, land use planning, mass grading design, infrastructure alternative analysis, roadway infrastructure analysis and design, and close coordination with the City of Henderson.

Las Vegas Metropolitan Police Headquarters, Las Vegas, NV – Project Manger

Jerry was the project manager for a 15 acre professional office campus that will serve as the headquarters for the Las Vegas Metro Police Department. Extensive coordination with NDOT and the City of Las Vegas played an important part of the preliminary project planning, due to the future impacts of Project Neon. Off-site improvements consist of right-of-way dedication, coordinating and designing the necessary roadway improvements for Martin Luther King Boulevard and Alta Drive as 120 foot wide arterial roadways. On-site improvements consist of three separate multi-story office buildings totaling 390,000 square feet

Jerry Slater, PE

Vice President/Principal-in-Charge

and a five-story parking structure. The professional office campus utilizes urban design elements, which will include landscape plaza areas between the buildings and urban type streetscape design. Jerry is responsible for the QA/QC for Project Alta which is currently under construction. A hydrologic analysis was provided for the project site and off-site tributary utilizing the USCOE HEC-1 computer program. Design and supporting hydraulic computations for lateral drainage facilities were provided that connect to an existing system in Martin Luther King Boulevard and the City of Las Vegas Capital Improvements Project storm drain in Alta Drive.

Thomas & Mack Development (T&M), Multiple Locations in the Las Vegas, NV – Project Manger

Jerry was the project manager for multiple T&M projects that included survey, master-planning, and site development, entitlement applications processing and coordination, engineering services (grading, hydrology, civil improvement plans), ADA analysis and compliance, and construction management of the site. Projects range from smaller 8,000 square feet retail buildings to a 100 acre industrial park with warehouse distribution buildings exceeding 300,000 square feet.

City National Bank, Las Vegas, NV – Project Manger

Jerry was the project manager of a 6-story professional office building totaling 145,000 square feet with a 3-story parking structure. He managed the design team to provide sewer and water infrastructure to the building, was responsible for grading design, and ADA access design routes. Jerry also managed scheduling, budgets, entitlements, construction management and preparation of civil improvement plans (construction documents).

Northern Beltway Industrial Center, North Las Vegas, NV – Project Manger

Jerry was the project manager for a multi-phased, 100 acre commercial/industrial warehouse project located near the intersection of I-15 and I-215, in North Las Vegas. The services included private and public construction documents. The public utility designs included approximately 680 lineal feet of public 8 inch sanitary sewer main, 812 +/- lineal feet of 12 inch water, and 2,209 lineal feet of various sized storm drain and a 6.5 acre foot detention basin. The drainage facilities required coordination with the US Corps of Army Engineers and the Nellis Air Force Base Commander. The public roadway improvements consisted of 2,100 lineal feet of full and half-street improvements of El Campo Avenue (80 ft ROW) within the city of North Las Vegas jurisdiction. As the Project Manager, Jerry's leadership role of coordination between the design team, client, utility agencies and government entities provided for maximum land-use efficiency, cost-effective design, and seamless implementation of the construction documents for which he was responsible.

Beltway Business Park-F-Block, Las Vegas, NV – Project Manger

Jerry was the project manager for a 14 acre site with two single-story and two 3-story office buildings totaling approximately 224,400 square feet of office space with large parking lots to accommodate the required parking stalls for a large development such as this project. The scope of work involved preparing improvement plans in three phases which produced on-site and off-site improvements as a part of the construction documents. He also provided coordination between the design team, client, utility agencies and government entities.

Beltway Business Park, Las Vegas, NV – Project Manger

Jerry was the project manager of a 3-story 75,000 square feet office building and two 2-story industrial warehouse buildings totaling 74,000 square feet. Responsible for the design of on-site industrial warehouse buildings totaling 74,000 square feet. Responsible for the design of on-site improvements, storm drainage, sewer and water along with scheduling, entitlements, mapping, and budgets. Placement of the building was key to maximize traffic circulation and parking. This project was part of a larger phase therefore future expansions to parking lots, water system, sewer system and storm drain system were analyzed to minimize future costs. The scope included large parking lots including grading for drainage and ADA compliance, vehicle and pedestrian circulation, coordination other disciplines to ensure there are no change orders or construction issues.

Jerry Slater, PE

Vice President/Principal-in-Charge

Desert Canyon Business Park, Phase II & III, Las Vegas, NV – Project Manger

Jerry was the project manager for a 35 acre commercial development located at the northeast corner of Patrick Lane and Quarterhorse Lane. The civil engineering scope included the design of the off-site roadways, flood control infrastructure and the utilities required to serve the future office buildings. He also provided coordination between the design team, client, utility agencies and government entities.

Desert Canyon Rehabilitation Hospital, Las Vegas, NV – Project Manger

Jerry was the project manager of a 2-story professional office building totaling 22,000 square feet located on 2 acres. He was responsible for the design and coordination of on-site improvements, storm drainage, sewer and water along with scheduling, entitlements, mapping, and budgets.

Eastgate Park II, Las Vegas, NV – Project Manger

Jerry was the project manager of a 6-story office building totaling 145,000 square feet. This project also included a 3-story parking structure totaling 181,000 square feet. Responsible for the design and coordination of on-site improvements, storm drainage, sewer and water along with scheduling, entitlements, mapping, and budgets.

Clark County School District, Variety Special Education School, Las Vegas, NV – Project Manger

Jerry as project manager, provided design and construction of a replacement facility for the Variety Special Education School located at 2601 Sunrise Avenue. The new site for the Variety School was on the former middle school site. The school accommodates an enrollment of approximately 180 physically and mentally-challenged students with behavioral issues. The staff consists of 90 personnel. Site improvements consisted of an adequate bus drop-off area for 25 buses as well as parking for visitors and staff. The existing middle school facility and all auxiliary buildings was demolished as part of the project.

Knickerbocker Park, Las Vegas, NV – Principal

Jerry served as the Principal for this 15 acre public park centrally located within the Providence Master Planned Community in the City of Las Vegas. The park consists of a pre-fabricated restroom building, baseball and turf fields, two tot lots, volleyball courts, shaded picnic areas, water splash pad, a dog park, walking trails, and parking lot. Tasks included preparation of technical studies, civil improvement plans, dry utility coordination, permitting assistance, construction administration services, and final project closeout documents.

Patrick Lowry

Director of Phoenix Operations



Career Highlight:

- Director of Phoenix Operations

Years of Experience:

- Career – 18 years
- SHG – 7 years

Specialties:

- Large scale commercial/ industrial sites with complex design challenges and multi-jurisdictional design
- Collaborating with environmental and jurisdictional agencies
- Infill projects requiring comprehensive knowledge of existing conditions and municipal requirements

Patrick Lowry is a civil engineering consultant with over 18 years of experience in full-phase civil engineering and construction administration for private-sector and public-sector site infrastructure projects. Patrick leads and manages projects from initial site research, feasibility studies, and conceptual site design, to final design, construction phase services, and final certifications. To assure that projects run efficiently and profitably, Patrick coordinates closely with the design team, municipal agencies, and other key stakeholders. Patrick has a proven track record as a leader who knows what it takes to both win and manage work profitably, while providing exceptional client service.

Patrick's expertise is in large-scale commercial and industrial sites with complex design challenges and multi-jurisdictional design and permitting requirements. Patrick also has a wide range of experience in municipal and residential/multi-family projects. In the preliminary design phase, including site inspections, Patrick prepares due diligence packages, preliminary opinions of cost and compiles design development packages that help to identify engineering related issues that affect the overall cost of development and that may require additional municipal approval requirements. During final engineering, Patrick works with the design team and municipalities to offer creative and cost-effective design solutions and to secure necessary approvals in a timely manner. During the construction phase, Patrick works closely with the development team and site contractors to meet project objectives. His experience includes site observations, request for information review and response, construction materials review, construction punch-list preparation, as-built/record drawing preparation, and completion certification letters.

Relevant Experience

Public Works

Arizona State Health Laboratory, Gilbert, Phoenix, AZ – Project Engineer

Patrick served as the civil engineering project manager on a dynamic design build team selected by the State of Arizona. Continual involvement of members of the design team provided immediate feedback on cost and design decisions, critical to the on time and under budget completion of the 78,000 sf facility. A full range of services were provided including general civil, LEED certification and coordination, survey, and construction management.

Arizona State Adolescent Behavioral Health Hospital, State of Arizona, Phoenix, AZ – Project Engineer

Patrick served as the civil engineering project manager on a dynamic design build team selected by the State of Arizona to design and construct a 220,000 sf facility comprised of three residential buildings providing 200 beds, two patient treatment buildings, a medical clinic, and common areas that include a fitness center, library, coffee shop, clothing store, educational facilities and a chapel. A full range of services were provided including general civil, survey, and construction management.

Other Representative Projects - Public Works

Arizona State Adolescent Behavioral Health Hospital, Phoenix, AZ
Arizona State Health Laboratory, Phoenix, AZ
ASU East Student Union, Mesa, AZ
Phoenix Municipal Stadium, Phoenix, AZ
Dine College, Tuba City, AZ
Museum, Phoenix, AZ
Phoenix Municipal Stadium, Phoenix, AZ

Commercial/Industrial

Family Dollar Store, The Hutton Company, Multiple Location in AZ – Project Engineer

As the primary consultant SHG was responsible for all aspects of the development including site selection, due diligence, preliminary and final plan approvals, and construction phase services. SHG worked closely with project stakeholder and local municipalities to help ensure successful completion of projects within the schedules and budgets established.

Patrick Lowry

Director of Phoenix Operations

Other Representative Projects - Commercial/Industrial

The Howard Hughes Corporation, multiple big/medium box retail projects, Multiple locations in AZ
Canby Market Place, Canby, OR
Caring Hearts Animal Hospital, Gilbert, AZ
Cave Creek Market Place, Phoenix, AZ
Costco Home Store, Tempe, AZ
Costco Wholesale, Multiple locations in OR, AZ, CO
Family Dollar Store – Multiple locations in AZ
Fred Meyer, Canby, OR
Gateway Pavilions Power Center, Avondale, AZ
Gilbert Township Villas, Gilbert, AZ
Glider Ridge Retail Center, Beaverton, OR
Home Depot, Multiple locations in AZ, OR, WA
IKEA, Tempe, AZ
ITT Technical Institute, Tempe, AZ
Kohl's, Multiple Locations, AZ
Longbow Market Place, Mesa, AZ
Marley Park Square, Surprise AZ
Mesa Ranch Marketplace, Mesa, AZ
Messenger Mortuary, Payson, AZ
Nike World Campus, Beaverton, OR
Olive Street Commerce Center, Peoria, AZ
Oregano's, Queen Creek and Surprise, AZ
Pavilions at San Tan Heights, Pinal County, AZ
Peoria Retail Center, Peoria, AZ
Santan Gateway, Chandler, AZ
Schumacher European Mercedes Benz Dealership, Phoenix, AZ
Southshore Corporate Park, Portland, OR
Sun City Grand Crafts Building, Peoria, AZ
Superstition Gateway East and West, Mesa, AZ
Target Southwest Distribution Center, Phoenix, AZ
The Promenade at Casa Grande, Casa Grande, AZ
The Summit @ Avondale, Avondale, AZ
Township Plaza, Gilbert, AZ
Wal-Mart Superstores, Chandler & Mesa, AZ
Wal-Mart, Chandler, AZ
Westwing Community Center, Peoria, AZ
Windsong Professional Center, Prescott Valley, AZ
Village at Country Corner, Phoenix, AZ

Residential/Multi-Family

Artesia, Scottsdale, AZ – Project Engineer

Artesia is a mixed-use development with 490 units of luxury condominiums adjacent to a scenic golf course and 22,000 square feet of retail. full scope of services included due diligence, preliminary and final engineering, and coordination between the project stakeholders, municipalities, and design team consultants.

Other Representative Projects - Residential/Multi-Family

Artesia by Starpointe, Scottsdale, AZ
The Colonade Retirement Community, Surprise, AZ
Parkside at Buckeye Master Planned Community, Buckeye, AZ
Sterling Park, Beaverton, OR
Topaz by Starpointe, Scottsdale, AZ
Villa Volterra, Scottsdale, AZ
Waterhouse VI Residential Community, Beaverton, OR

Jack Moody, P.E., CFM

Project Manager



Education:

- BS, Civil Engineering, University of Arizona, Tucson, AZ, 1983

License | Registration:

- PE, Civil, Nevada, 11653
- PE, Civil, Arizona, 22208
- Certified Floodplain Manager (CFM), #US-03-00968

Years of Experience:

- Career – 30+ years
- SHG – 2 years

Professional Affiliations:

- Arizona Floodplain Management Association, Associate Member
- Association of State Floodplain Managers (ASFPM)
- ADWR (Arizona Department of Water Resources), State Standards Work Group Member

Specialties:

- Drainage
- Flood Control
- Section 404 Permitting

Jack Moody brings over 30 years of experience to Slater Hanifan Group, Inc. (SHG). His experience consists of hydraulic and hydrologic routing, drainage structure design, watershed modeling, floodplain mapping, erosion analysis, flood control design, and master drainage plan preparation throughout the Southwest. His experience includes all aspects of Section 404 of the Clean Water Act permitting process, as administered by the U.S. Army Corps of Engineers Regulatory Division and waters of the U.S. delineations, particularly specializing in the ephemeral watercourses of the arid southwest. Jack has prepared numerous Section 404 permit applications, including authorization requests to construct under a Nationwide Permit, authorization under a Regional General Permit, and Individual 404 Permits. He has performed floodplain studies for over 500 miles of rivers, washes, railroads, and canals, and has worked closely with many Flood Control Districts across the state of Arizona as well as Nevada. He also has experience in the preparation and management of approval of numerous CLOMR and LOMR submittals, floodplain re-delineations, open channel design, bank stabilization design, and floodplain fringe fill.

Relevant Experience

Poquito Valley Flood Hazard Study, Yavapai County, AZ – Project Manager

The Poquito Valley Flood Hazard Study identified the flood hazards for both vacant and developed land areas on behalf of the Yavapai County Flood Control District. Jack and his team prepared a detailed floodplain delineation for 14 miles of effective approximate Flood Zone “A” Special Flood Hazard Areas. Regional regression equations, as well as a HEC-1 flood hydrograph model was utilized to calculate the 100-year peak flows for this 58 square mile watershed. A detailed floodplain delineation including floodway mapping was performed using the Army Corps of Engineers HEC-RAS computer program. Data including hydrologic and hydraulic analyses, floodplain mapping, and supporting documentation were compiled into a Technical Data Notebook in accordance with ADWR standards. The Technical Data Notebook (TDN) and study work maps were submitted for Yavapai County review, ultimately to be approved by FEMA. Poquito Valley has a wide shallow floodplain with a poorly defined low flow path. Development within the floodplain is primarily rural housing on large 2 to 10 acre lots. Several homes and lots were entirely within the floodway/conveyance corridor. The project included a large public meeting attended by over 100 residents and several elected and appointed public officials.

Prescott Country Club Area Drainage Master Study, Prescott, AZ – Project Manager

The Prescott Country Club is an aged development located in unincorporated portions of Yavapai County near the Town of Prescott Valley. The development consists of single family housing, multi-family housing, commercial property, and a golf course that were generally developed in the 1970s. The Yavapai County Flood Control District hired Jack and his team to prepare the Prescott Country Club Area Drainage Master Study as a comprehensive analysis of the drainage problems throughout the study area. The study is comprised of data collection, hydrologic and hydraulic analysis of the offsite and onsite watersheds, public involvement, identification and prioritization of flood hazards, mitigation alternative formulation, and conceptual design drawings. Jack and his team prepared and distributed a public involvement brochure with specific questions to all the property owners within the study area and several public meetings were conducted to aid in the identification of the flooding areas and propose mitigation alternatives. In addition, the 100-year and 500-year floodplains for Clipper Wash Floodplain were delineated and documented in a Technical Date Notebook (TDN) for submittal and approval by FEMA. Proposed mitigation measures were coordinated with the property owners and stake holders such as the Prescott Country Club Golf Course to get community buy-in to the project.

Stoneridge Canyon, SunCor Development, Prescott Valley, AZ – Project Engineer

Jack prepared the master drainage planning of this 1600 acre Master Planned Community. Responsible for managing the drainage and flood control aspects of the project, including hydrology and hydraulics of Lynx Creek and several smaller washes. Prepared HEC-1 for both onsite and offsite watersheds. Coordinated the design of numerous hydraulic structures including a bridge, culverts, channels, and a siphon.

Jack Moody, P.E., CFM

Project Manager

Big Bug Flood Hazard Assessment, Yavapai County, AZ – Project Manager

Jack has re-mapped an effective floodplain for Big Bug Creek within Yavapai County, extending from just upstream of its outfall to the Agua Fria River, to just below Big Bug Mesa. He has prepared a matrix of peak flows based on HEC-1 hydrologic models and USGS regional regression methodology. He has tied into vertical and horizontal control provided by Yavapai County to obtain survey of the bridge and culvert structures and for topographic verification of the contour data provided to the county. Also prepared both 100-year and 500-year frequency floodplain delineations for the 22 mile study reach. A Technical Data Notebook (TDN) was prepared for submittal to the Federal Emergency Management Agency (FEMA). Also utilized the modeling data to prepare a peak flow versus flow stage rating curve for the Automated Local Evaluation in Real Time gage located at Big Bug Creek in Mayer.

Cortona, Meritage Homes, Scottsdale, AZ – Project Manager

Jack perform forensic research and evaluation of the causes of a flooding problem within this north Scottsdale subdivision. A home and the landscaping on several lots within this upscale subdivision were flooded during a summer monsoon event. The home sustained significant damage when the stormwater inundated the floor by entering the residence through the front door and through the walls. He reviewed the design plans and the design report, gathered detailed precipitation data from nearby rain gauges, performed a field reconnaissance, and gathered homeowner and witness testimony to aid in the forensic evaluation of the cause of flooding. After identifying design deficiencies and documented the findings he presented them to the jurisdictional agency. Several mitigation alternatives were analyzed with the most cost effective solution meeting the design criteria being selected as the preferred alternative. Also prepared a retrofit design documentation report and reviewed the mitigation in the field following the reconstruction.

Sonoran Solar Energy Project, Environmental Planning Group, Maricopa County, AZ – Project Manager

Jack prepared a Section 404 jurisdictional delineation and drainage analysis for this 11,500 acre site located in Maricopa County, Arizona. Jack and his team provided the 404 jurisdictional delineation including a Significant Nexus Analysis, Hydrologic and Hydraulic Analyses, surface water hydrology, and sediment transport analysis for this planned utility scale solar energy plant. Field reconnaissance was performed to identify the watercourses that exhibited Ordinary High Water Marks (OHWM) for inclusion in the Significant Nexus Analysis. The Corps agreed with the findings and made a determination that there were no Waters of the U.S. on the site. This allowed for the development of the project without the need to get a 404 permit from the Corps. He also prepared the surface water hydrology and hydraulics on the site and incorporated them into the Preliminary Master Drainage Report.

Portalis, Arizona State Land Department/Desert Communities, Apache Junction, AZ – Project Manager

Jack and his team were responsible for the Section 404 Permitting and coordination for the Portalis Master Planned Development, formerly known as Lost Dutchman Heights. Jack and his team prepared the Master Drainage Plan and Report The plan consisted of a comprehensive evaluation of alternatives to the existing Powerline, Vineyard, and Rittenhouse (PVR) Flood Retarding Structures.

Grayhawk Community Park, Scottsdale, AZ – Project Manager

Jack prepared a jurisdictional delineation for the City of Scottsdale for Grayhawk Community Park located in North Scottsdale. In evaluating the site for jurisdictional waters it was determined that the potential Waters of the U.S. on the site had been hydraulically isolated from their watersheds and were not jurisdictional. A letter of no jurisdiction was obtained from the Army Corps of Engineers.

Jack Moody, P.E., CFM

Project Manager

Verrado, DMB Associates, Buckeye, AZ – Project Engineer

Jack was responsible for the Section 404 and drainage master planning of this 8,800 acre master planned community located at the former Caterpillar Proving Grounds. He prepared the jurisdictional delineation of Waters of the U.S., as well as the Section 404 Individual Permit for the project. Services included analysis of the hydrology for both the pre and post development land use conditions for several development phases. Prepared comprehensive drainage designs for the phases, which included the design of storm drain, open channel, online retention basins and offline detention basin systems. He was also responsible for the Annual 404 Monitoring Report and documentation of 404 compliance to the Army Corps of Engineers.

Clearwater Shores, Communities Southwest, Bullhead City, AZ – Project Engineer

Located along the last privately owned land on the Colorado Riverfront in Arizona, Clearwater Shores is an upscale waterfront community with over 790 single family residential housing lots. Jack provided full multi-disciplinary services for this project in Bullhead City, Arizona, owned by Developer Communities Southwest. Clearwater Shores is adjacent to the Colorado River Nature Center (CRNC), where residents can enjoy the landscape and wildlife, while supporting the preservation of the area's natural habitat. He applied for and received a request for a Conditional Letter of Map Revision from the Federal Emergency Management Agency (FEMA) in an effort to remove the Clearwater Shores site from a shallow flooding zone Special Flood Hazard Area designation. This CLOMR was based on revised Mohave County Flood Insurance Study hydrology and hydraulics, as well as coordination with the Arizona Game and Fish Department and the Bureau of Land Management. Communities Southwest structured a unique agreement with Arizona Game and Fish Department to create large ponds within the CRNC property for use as an endangered fish hatchery. In addition, Jack completed construction documents and cost estimates of the drainage design for the site. This design includes site fill, channelization, stormdrain, stormwater storage basins, sedimentation basins, water quality treatment basins, spillways and outfall conveyance structures. The onsite hydraulic design includes catch basins, storm drains, stormwater storage basins, water quality basins, and outfall spillways.

Roger Theis, P.E.

Project Engineer



Education:

- BS, Civil Engineering, North Dakota State University, Fargo, ND, 1998

License | Registration:

- PE, Civil, Arizona, 38805

Years of Experience:

- Career – 18 years
- SHG – 3 years

Professional Affiliations:

- Valley Partnership
- HBACA

Roger Theis is a professional civil engineer with over 18 years of experience working on a wide variety of project types, including mixed-use, commercial, residential, multi-family, healthcare, and landside aviation. Through this experience, Roger has become an expert in site development in Arizona and he possesses a thorough understanding of all of the regulations and requirements associated with planning, engineering, design, and construction. He is an expert in unique design, cost-reduction strategies and time-saving solutions. Roger is known for innovative problem solving, benchmark Client service and skillful relationship-building with all his partners. He routinely meets with clients, the design team, sub-consultants, and reviewing agencies to keep projects on track through the planning, design, approval, and construction process. Roger's familiarity with project contingencies and a deep, broad understanding of land development help him identify and creatively solve potential challenges and obstacles before they occur. Roger also has expertise in paving, grading, drainage, water, and sewer design will be critical to the success of this project. He also will be responsible for conformance with the Arizona Pollutant Discharge Elimination System (AZPDES) compliance.

Relevant Experience

Estrella Mountain Ranch, Newland Communities, Goodyear, AZ

Roger provides consulting services for this 10,000 acre Master Planned Community which includes PAD documents, master reports, mass grading analysis, 404 corridors, lotting studies, preliminary plans/reports, final construction documents/reports, signing/stripping plans, street light plans, RFI response, field observation, shop drawing review and value engineering.

Aerium Townhomes, Landmark, Scottsdale, AZ

Roger provided conceptual, DRB and final plans for the 28-unit multi-family townhome project which included neighborhood meetings, construction documents, reports and studies relating to water, sewer and drainage, and acted as Client liaison with the City of Scottsdale.

Aerium Encore Townhomes, Scottsdale, AZ

Roger provided conceptual, DRB and final plans for the 24-unit multi-family townhome project which included pre-application, neighborhood outreach, construction documents, reports, and served as Client liaison with the City of Scottsdale.

Windgate Ranch Parcel H, Toll Brothers, Scottsdale, AZ

Roger provided final construction documents for the 81-lot single-family gated subdivision which included flood plain coordination, grading optimization, and final plat, paving, water, sewer and grading plans.

Windgate Ranch Parcel C, Toll Brothers, Scottsdale, AZ

Roger provided consulting services for the 32-lot single-family gated subdivision which included lot layout, retaining wall analysis, grading optimization, and final plat, paving, water, sewer and grading plans.

Mixed-Use/Commercial

- Metro Towne Center, Phoenix, AZ
- Mountain View Business Center, Buckeye, AZ
- Prescott Gateway Mall, Prescott, AZ
- Prescott Village, Prescott, AZ
- Chandler Fashion Center, Chandler, AZ
- Gilbert Spectrum Industrial Development, Gilbert, AZ
- Paradise Cafe, Peoria, AZ
- Community Center Fireside at Desert Ridge, Phoenix, AZ

Roger Theis, P.E.

Project Engineer

Multi-Family

- Aerium & Aerium Encore, Scottsdale, AZ
- Center 8, Phoenix, AZ
- 6-pack Cluster Parcels Fireside at Desert Ridge, Phoenix, AZ
- Superstition Lakes Condominiums, Mesa, AZ
- Tri-plex Parcels Fireside at Desert Ridge, Phoenix, AZ

Residential

- Tempe Village, Tempe, AZ
- 34th Street Enclave Phase 1 & 2, Phoenix, AZ
- 42nd Place & Baseline, Phoenix, AZ
- La Jolla Vista, Goodyear, AZ
- Red Valley Ranch, Maricopa, AZ
- Silverstone Parcel F, Scottsdale, AZ
- Southern Enclave, Phoenix, AZ

Joe Lockett, P.E., CFM

Project Engineer



Education:

- BS, Hydrology, University of Arizona, Tucson, AZ, 1998

License | Registration:

- PE, Civil, Arizona, 45646
- CFM #US-11-05842

Years of Experience:

- Career – 18 years
- SHG – 2 years

Specialties:

- Hydrology
- FEMA Floodplain
- CLOMR/LOMR
- HEC-1, HEC-RAS

Joe Lockett brings over 18 years of experience to the Flood Control Department of Slater Hanifan Group, Inc. (SHG). His experience in civil drainage design includes work in the public and private sectors, along with several years of experience working with the federal government as a student intern/researcher. Joe has extensive background in hydrologic theory, assumptions, limitations, modeling techniques, and current software packages. He has an extensive understanding of hydraulic modeling techniques and methods for channels, culverts, surface interception, storm drain systems, and energy dissipation. He also has experience with accepted methods for calculation of scour and sediment transport. Joe is experienced with FEMA floodplain delineation methods as well as the submittal and review process for CLOMR/LOMR packages, as well as multiple projects he has worked on involving Corps of Engineers 404 Jurisdictional delineations and submittals. Joe has a strong ability to work independently as well as a contributing team member and is budget conscious and accustomed to working inside time constraints for the clients benefit.

Relevant Experience

Jackrabbit Wash Flood Insurance Study, Maricopa County, AZ – Drainage Engineer

Approximate Zone A Floodplain delineation study of Watershed “OO” – Upper Jackrabbit Wash, Coyote Wash, and their tributaries. Assisted in hydraulic modeling using HEC-RAS and delineated resulting floodplain. Produced floodplain workmaps for the 145 mile delineation.

Sonoqui Wash Channelization, Phase II, FCDMC, Phoenix, AZ – Drainage Engineer

Responsible for documentation of hydraulic design, including scour mitigation and bank protection design in support of Phase II construction documents. Also assisted in preparation of specifications as well as quantity and cost estimates for the various phases of the project. Other responsibilities included modeling and assembly of CLOMR package for the project and updates to the project design reports.

Bullard Wash Channel Improvements and CLOMR, FCDMC – Project Engineer

As the project engineer, Joe assisted with HEC-RAS modeling in support of CLOMR for 8 miles of Bullard Wash from Interstate 10 to Lower Buckeye Road. Coordinated hydraulic work maps and annotated FIRM panels for the project. The project channelized Zone AE floodplain.

Siphon Draw Wash Drainage Improvements Project, FCDMC, Mesa, AZ – Project Engineer

Designed detention basin inlet structures which included the stepped drop structure for the east inflow from Siphon Draw. Also assisted in design of basin outfall channel hydraulics between Meridian Road and 104th Street. The multi-phase project was designed to work with existing regional structures downstream of Meridian Road and based upon recommendations in the East Mesa Area Drainage Master Plan.

Sonoqui Wash Floodplain Delineation, FCDMC, Queen Creek, AZ – Project Engineer

Joe coordinated the grading plans and developed the channel hydraulics using HEC-RAS for a private development adjacent to Sonoqui Wash.

Estrella, Goodyear, AZ – Project Engineer

Coordinated site drainage design for several residential parcels within the overall Estrella development to ensure conformance with the master drainage plans. Several projects had to be closely coordinated with effective and revised floodplains within the property.

Vistancia, Peoria, AZ – Project Engineer

Conducted drainage design for several residential parcels, community appurtenances, and roadways within the development. Assisted with 404 permitting for overall project and coordination of monitoring per U.S. Army Corps of Engineers requirements.

Villago, Casa Grande, AZ – Project Engineer

Joe prepared the 404 permit application for this master planned community in Casa Grande, AZ. Included coordination with the U.S. Army Corps of Engineers, the Arizona Department of Environmental Quality, and other agencies. Prepared the permit application package, defined the impacts, the alternatives analysis, the 401 Certification, drafted the Environmental Assessment and the Public Notice.

Joe Lockett, P.E., CFM

Project Engineer

Interstate-17, I-40 to SR179, Arizona Department of Transportation – Project Engineer

Conducted drainage feasibility study for I-17 improvements between Flagstaff and State Route 179. Study included highway corridor existing and proposed hydrology analyses and drainage conveyance improvement calculations for existing and proposed channels, culverts, and bridges along several proposed re-alignments. The project also involved extensive field work for data verification.

I-17 Dove Valley Traffic Interchange, ADOT, Phoenix, AZ – Project Engineer

This project included the design of on-site drainage systems for the Dove Valley Traffic Interchange and associated roadway connections along I-17. Also designed off-site drainage system inclusive of an engineered channel with drop structure and box culverts. Assembled construction documents and supporting design documentation as part of submittal package for review by Arizona Department of Transportation.

Phoenix Metro ADMS/P, Phoenix, AZ – Project Engineer

Assisted with hydrologic parameter estimation and model construct for this Master Study and Plan reviewed by FCDMC and City staff. Significant effort devoted to modeling routing surface and subsurface flows to estimate existing conditions. Participated in several field reconnaissance trips to observe and measure site specific conditions in areas of reported flooding within the study area.

Marley Park, Surprise, AZ – Designer

Designer for comprehensive drainage solutions in several phases of the project. Worked with civil team on each phase to coordinate mass grading, roadway design, and utility alignments to adhere to overall project drainage goals and requirements. Coordinated design with adjacent floodplain with the Flood Control District of Maricopa County (FCDMC).

Sereno Canyon, Scottsdale, AZ – Designer

Responsible for preparing design calculations and drainage reports in support of the first phase in the development as well as adjacent roadway improvements.

Glendale Spring Training Facility Design and Utility Management, Glendale, AZ – Project Engineer

Responsible for preparing construction documents, specifications, quantity estimates and drainage reports in support of Ball Park Boulevard and Camelback Road Improvements. Additional responsibilities included review of several sets of shop drawings in support of the project.

Watson Pre-Design FCDMC, AZ – Project Engineer

Joe assisted in field work, documentation and organization for utility coordination in support of Pre-design level plans. Coordinated 15% level bid items and cost estimates as well as estimation of right of way acquisition requirements for the project.

US 60, Superior Streets, Arizona Department of Transportation, AZ – Project Engineer

Joe was responsible for preparing construction documents, specifications, quantity estimates and drainage reports in support of roadway improvements.

Central Arizona College, AZ – Project Engineer

Joe provided letter of map revision – Conducted field observations, hydraulic modeling, mapping and supporting documentation for a FEMA Letter of Map Revision based on recent improvements to the campus.

Verrado, Buckeye, AZ – Project Engineer

Design engineer of the drainage master planning of this 8,000 acre master planned community located at the former Caterpillar Proving Grounds. In addition to the hydrologic and hydraulic evaluation of many mitigation options, he has been integral in the design of many drainage structures including channels, storm drain systems, and large stormwater storage basins. Joe has also assembled several CLOMRs on behalf of various projects within the Verrado development.

Joseph Petrucci, P.E., LEED AP

Civil Engineering/Development Services



Education:

- BS, Civil Engineering Tech., Fairleigh Dickinson University, 2003

License | Registration:

- P.E., Civil, Arizona, #54540
- LEED Accredited Professional

Years of Experience:

- Career – 12 years
- SHG – .5 years

Professional Affiliations:

- USGBC

Specialties:

- Grading Design
- Civil land development project design
- Civil engineering
- Construction Inspection
- LEED qualification review and design

Joe Petrucci has over 12 years of experience in civil engineering analysis and design for both public and private projects. He has experience with large scale residential development master plans as well as experience with public works, institutional, and commercial development. Joe has tremendous experience in the preparation of paving, grading, drainage, water, and sewer construction documents. As a LEED Accredited Professional, Joe is able to incorporate environmentally friendly practices into the civil design work he performs. His ability to coordinate all of these aspects of a project has made him an excellent project engineer.

Relevant Experience

Whispering Hills I, Phoenix, AZ - Project Engineer

Residential Hillside project with 168 lots. Project engineer for this challenging hillside development. Utilized Autocad Infraworks to create a preliminary 3D model of the site for the Client and Meetings. Project involved multiple meetings with the City of Phoenix to discuss project details and come to a mutual decision for the project. Managed a staff of three to complete this design intensive project.

Goldfield Ranch, Maricopa County, AZ

Responsible for preliminary grading and drainage design, utility design and coordination for this 2,500-acre hillside development pre-plat. This project consisted of 1,000 mixed custom and mass grading lots. Design work included roadway layout and profiles, utility design and preliminary above ground retention design.

Rovey Rail, Maricopa County, AZ - Design Engineer

Served as Design Engineer for this design build rail distribution project. Coordinated with Mountain State Contracting to prepare grading and construction plans for two miles of rail from Palo Verde Road to Johnson Road. This rail was connected to UPRR line and had to meet UPRR standards. In addition to the rail a 100,000 SF warehouse and two silos for corn and grain distribution were constructed.

The Peninsula at Bayonne Bay, Bayonne, NJ

Prepared site plans, grading, stormwater management systems, sanitary design and utility design for roadway infrastructure of this 50-acre residential development site. Project consisted of nine stormwater management systems conveying stormwater to the Newark Harbor.

Sky Train Stage 1A, Phoenix, AZ

Served as Project Engineer for this 2,500 linear feet of elevated track. Lead design and preparation of construction plans for running surface and guidebeam for Bombardier train system. Assisted in extensive coordination with design team from Weitz and Bombardier to see project through design and construction. Additional work included creation of staking for all aspects of construction.

Spruce Gardens; Newark, NJ

Provided geotechnical, design and construction inspection services for this 11-acre Hope VI urban redevelopment in Newark's Central Ward. This project consisted of a 130 unit residential development, and a mixed use clubhouse. Design work included site layout, grading design, underground detention system design and utility design.

San Tan Heights C Parcels, Pinal County, AZ

A five Parcel 694 lot residential project with fissures located on site. Grading design included mass grading as well as each grading for each Parcel. Assisted with management of project.

Zanjero Trails Phase 2; Surprise, AZ,

Responsible for the project design and coordination throughout plan production for this 412-acre residential development. Prepared exhibits and construction documents using AutoCAD including grading, paving, water, wastewater, and storm water design plans for residential community infrastructure.

Kevin Murphy, P.E.

Director of Lake Havasu City Operations



Education:

- BS, Civil Engineering, University of New Mexico, Albuquerque, NM, 1987

License | Registration:

- P.E., Civil, Arizona, 31791

Years of Experience:

- Career – 30 years
- SHG – 2 years

With 30 years of municipal project management and public works experience (including 19 years in Mohave County), Kevin Murphy, Director of Operations, has exceptional industry knowledge and client-service skills. Prior to joining SHG, he was the public works director for Lake Havasu City where he oversaw the city's capital budget for infrastructure development, operations, and maintenance. Kevin has overseen numerous water system improvement, land development, landscape architecture, sewer rehabilitation, roadway improvement, water line extension, and dam rehabilitation projects. He is experienced in preparing and delivering presentations to bond rating agencies, bond insurance companies, community organizations, and neighborhood groups, and he has successfully collaborated with environmental and jurisdictional agencies throughout the Southwest.

Relevant Experience

Zones 4 and 5A Water System Improvements, Lake Havasu City, AZ – Project Manager

Provided oversight for water system improvements at four locations including Zone 4 and 5A reservoir tanks. The project included adding a 0.75-mg tank to the Site 5A reservoir and a 1-mg tank to Site 4. Prepared an environmental information document for construction of new water pump stations 1, 4, and 5A, which included obtaining state land permits. The city desired to obtain additional lands for future tanks 6 and 6A to improve overall system reliability and enhance pump station hydraulics. Assisted city staff with acquiring the properly sized land parcel and right-of-way for the water infrastructure improvements and access roads. Atkins also designed a new pipeline crossing of El Dorado Wash and new water transmission main in McCulloch Boulevard.

Lake Havasu City On-Call Water, Lake Havasu City, AZ – Project Manager

Kevin provided oversight and direction for the replacement of numerous waterline replacements and extensions. The project included replacement of water service lines and water lines within the ROW that included disturbance to residential yards and improvements.

Hi-Desert Water District Septic to Sewer Conversion, Lake Havasu City, AZ – Project Director

Project Director for design of the first ww collection system in Yucca Valley, CA which allows for the abandonment of septic tanks. The first phase included 77 miles of collection system, 3 lift stations and force mains. The project recently won approval of the voters to form an assessment district for phase 1 for \$143 million. Project required extensive public interaction and value added analysis.

Lake Havasu City Wastewater System Expansion (WWSE) Projects, City of Lake Havasu City, AZ Mockingbird, Trotwood, and Chemehuevi Areas

Kevin was integral during the project design of these three expansion projects providing oversight and guidance on key design issues. With more than 10 years of experience with the expansion program, he provided insight on developed design and construction standards and was essential in developing and maintaining client relationships. He was also responsible for quality review and value engineering. During the construction phase, Mr. Murphy provided oversight of resident issue resolution, assisted with contractor negotiations, and worked with the client to resolve issues.

Quartzsite Water Master Plan Update and Drainage Design, Town of Quartzsite, AZ

Oversaw preparation of a water master plan update and drainage design as part of the Town Engineering Services contract. The town experienced a large seasonal influx of tourists in the winter months, which put severe pressures on the water distribution and supply facilities. To alleviate the concern, prepared a water master plan update that evaluated the town's current water system and evaluated improvements necessary for future annexations. The plan recommended improvements necessary to meet current demands and fireflows. This project also included the preliminary design of drainage improvements along Riggles Road to prevent excessive runoff into Tyson Wash, which contributed to infiltration and inflow problems within the collection system.

Wastewater Master Plan Update, City of Bullhead City, AZ – Project Director

Kevin was the project director, overseeing and providing QA/QC for a master plan update that included the city's GIS system, flow monitoring, development of a hydraulic model, model and land use generation calibration, capacity analysis, condition assessment and asset management program development, treatment and disposal and re-use opportunities analyses, and development of a 5- and 20-year capital

Kevin Murphy, P.E.

Director of Lake Havasu City Operations

improvement program (CIP). The project also included developing a 208 Plan Amendment similar to the U.S. Environmental Protection Agency's (EPA) Clean Water Act and assistance with closing the city's 1997 ADEQ Consent Order.

Quartzsite Town Engineering Services, Town of Quartzsite, AZ

Kevin provided as-needed town engineering services including advising for public improvement projects, performing plan checks for developments, and designing a roadway improvement project. Additionally, worked with the town to revise the Aquifer Protection Permit as required by Arizona Department of Environmental Quality (ADEQ) to expand its wastewater treatment plant to accommodate expanded flows. Performed required regulatory functions and assisted the public works department with various specific projects such as a wastewater master plan update. Provided the redesign of .9mgd wwtp to provide energy efficiencies and value engineering lowering the cost by over \$500,00. Provided completely revised water and wastewater rate plans that equitably shared the costs with all users and led all public meetings for their approval.

Buckskin Sanitary District, Lake Havasu City, AZ

SHG was chosen to provide construction administration for the septic to sewer conversion for area 3&4 construction. I am the project principal. The project is a \$5 million project that include 2 lift stations, gravity sewers and force mains. Services included detailed constructibility review, evaluation of bids and construction inspection and resident engineer. This is a USDA funded project that required significant coordination to insure compliance with documentation.

Lake Havasu City, AZ

As public works director for 11 years, Kevin directed a five-division department (administration, engineering, wastewater, water, and transportation) with a 2006–2007 operating budget of approximately \$23 million. Responsibilities included preparing and delivering numerous presentations to bond rating agencies, bond insurance companies, community organizations, and neighborhood groups; negotiating with the FAA for grants and changes in land use for the municipal airport; negotiating numerous changes to ADEQ regulations for the WWSE, including a fast-track approach for approval of construction allowing residents to be connected to new mainline within a week of construction; representing the city on the Mohave County 208 planning executive and technical committee; assisting in consultant selection for transportation, water, wastewater, landscaping, and parks projects; negotiating and facilitating annexations of new businesses; negotiating development agreements for numerous commercial, residential, and industrial developments; and overseeing water resource activities including coordination of recharge and recovery analysis and determination of long-term effluent disposal options. Major accomplishments included:

- Completed a \$42 million water source development project that included a new water treatment plant and a 26 million-gallons-per-day (mgd) collector well.
- Guided the city through the first construction manager-at-risk (CMAR) project for the North Regional Wastewater Treatment Plant.
- Completed construction of new \$3 million public works maintenance facility which provides for vehicle maintenance of over 400 pieces of equipment/vehicles and offices and base for over 100 employees for water, transportation, and transit divisions.
- Provided development, implementation, and oversight of the 11-year, \$463 million sewer expansion program. Responsible for providing numerous council updates as well as facilitating numerous public information meetings. In addition to community meetings, Kevin was integral in working with the ADEQ to institute procedural changes to allow for quicker connection of residents. He also presented the programs merits to numerous bonding and rating agencies to help ensure the city maintained a high rating for loan approvals. As part of the project, Kevin worked with rate consultants and participated in numerous analyses to ensure the rates were commensurate with anticipated expenditures. The program included transfer of 22,000 properties from septic tanks to a sewer system, rehabilitation and expansion of two existing plants, construction of two new major pump stations, and construction of a new effluent disposal system including both vadose wells and deep injection wells.
- Completed a \$30 million CMAR wastewater treatment plant. This project was the first CMAR project for Lake Havasu City.

Sean Perrotto, P.E.

Project Engineer



Education:

- BS, Civil Engineering, California State University, Northridge, CA, 2005

License | Registration:

- P.E., Civil, Arizona, 51810

Years of Experience:

- Career – 16 years
- SHG – 2 years

Sean Perrotto is a Project Engineer who brings 16 years of experience in planning and design of water, sewer, grading, drainage, and hydrology to Slater Hanifan Group, Inc. (SHG). Sean has worked with a number of large developers, ranging in size from single-family homes to 640-acre community developments. He has also worked with numerous city and county agencies as well as municipalities to develop clear, accurate, and comprehensive engineering documents, identify utilities, and coordinate with utility companies to resolve conflicts. He was lead engineer on the multi-year drainage design services and water CIP improvement projects for Lake Havasu City and wastewater CIP improvement projects for Bullhead City.

Relevant Experience

Sewer Lift Station 10-1 & 10-4, Bullhead City, AZ – Project Manager

Sean is providing engineering construction support services during the construction phase of the rehabilitation of two sewer lift stations. These services include specialized assistance to the city performing tasks including conducting bi-weekly meetings and site visits, shop drawing and RFI submittal reviews, design clarifications, field change directives, dewatering special inspections, and liaison coordinator of technical questions through sub-consultants.

Zone 5 and 6 CIP (2013-2014) Water System Improvements, Lake Havasu City, AZ – Project Engineer

Project Engineer for water system improvement upgrades to Zones 5 and 6. This project includes a new tank in Zone 6A, a new lift station, transmission/distribution piping in Zone 5A, a new booster station for Site 1B, waterline to SARA Park (14,000 feet), and new high pressure waterline (10,000 feet) throughout the City. He was lead engineer for the design of the SARA Park waterline improvement, high-pressure water main improvements, the preliminary design of Booster Pump station 1B, and he coordinated with Arizona State Lands to acquire land for the proposed tank on site 6A.

Zone 4 and 5A CIP (2011-2012) Water System Improvements, Lake Havasu City, AZ – Project Engineer

Project Engineer for water system improvement upgrades to Zones 4 and 5. The project included adding an additional 0.75 MG tank to Site 5A and an additional 1 MG tank to Site 4, while accommodating the site layout to allow space for future booster stations. Tank Sites 4 and 5A both include intricate piping systems which involve more than two water zones. He assisted city staff with acquiring the properly sized land parcel and right-of-way for the water infrastructure improvements and access roads. Included as a part of this project, Sean was the lead designer of the extension of a transmission main traveling 5,600 feet down McCulloch Boulevard, connecting two booster stations with a designated transmission line. This enhanced the system, enabling more efficient operation using separated transmission and domestic mains. In addition, 4,250 feet of water main was added to Zone 5 to allow for better efficiency, redundancy, and circulation in the system.

Zones 4 and 5A Water System Improvements Construction Support Services, Lake Havasu City, AZ – Project Engineer

Project Engineer providing as-needed engineering construction support services during the construction phase of two new reservoir tank sites. These services included specialized assistance to the City performing tasks including, but not limited to, attending weekly meetings and site visits, shop drawing submittal reviews with responses, requests for information (RFI) with responses, design clarifications, field changes, reservoir testing assistance, and liaison of coordinating of technical questions through subconsultants. He was a key team player as the project underwent multiple City staff changes, assisting with keeping the final product and completion date on a critical path at all times.

Wastewater System Expansion Program, Lake Havasu City, AZ – Project Engineer

Project Engineer providing engineering assistance to expedite the completion of this project. This effort included two separate design areas; the Mockingbird area which included 93,000 feet of sewer improvements and the Trotwood Area including approximately 82,000 feet of sewer improvements. Each scope included wastewater improvement pipe plan and profiles, a scour analysis, a hydrogen sulfide analysis, and a hydraulic analysis. He worked directly with the project engineers and coordinated with sub-consultants in completion of the hydraulic analysis and improvement plans. He also provided assistance to city staff during the course of the project.

Sean Perrotto, P.E.

Project Engineer

Booster Pump Station 1 Replacement, Lake Havasu City, AZ – Project Engineer

Project Engineer providing engineering assistance to expedite project completion. This is one of the first steps in the City's water system CIP. This effort included a new layout of the entire site plan while working with the existing two reservoirs. The site plan included a new pump pad and electrical building and required standard concrete masonry unit (CMU) and gabion retaining walls to improve site size and accessibility.

Lake Havasu City Drainage Design Services FY 2010-2012, Lake Havasu City, AZ – Lead Designer

Lead designer for this project, which consisted of five wash crossings that were evaluated for culvert improvements. The Swanson Avenue crossing of Pima Wash, which is now constructed, had an expedited design time due to community concerns with the existing pedestrian crossing of Swanson Avenue. The design was completed in 2.5 months.

Oversight Engineering for the Lake Havasu City WWSE Program, Lake Havasu City, AZ

Sean provided assistance in gathering data and reviewing plans in support of the oversight engineering role for a comprehensive review of the wastewater master plan and model. This review resulted in a technical memo confirming that a recent bond program was adequately sized, and that the City has been appropriately planning for its treatment needs. Additional technical memos will be completed to address the detailed model and issues raised by the public.

Preliminary Grading, Drainage, Environmental Services for Air Industrial Park, Lake Havasu City, AZ

Sean was a project engineer for a grading and drainage conceptual plan for a new racetrack near the Lake Havasu Airport, including environmental permitting. The 70-acre site is in a floodplain subject to sediment transport, distributary flows, and wide, shallow flooding. Environmental services included jurisdictional determination, biological survey, and cultural resource review of 75 acres of undeveloped land to determine permitting and mitigation requirements. Preliminary design included the challenging task of routing floodwaters across the developed site within the same drainage basins.

Havasu Riviera Master Planned Community, Lake Havasu City, AZ - Project Engineer

As project engineer, Sean was responsible for the grading and drainage, water, sewer, and hydrology master plans for 250 acres of residential development and 320 acres of commercial development. From the land planning perspective, the residential development included approximately 1,000 homes ranging from 0.25-acre lots to 1-acre lots in very mountainous terrain. The commercial aspect of the project included an 18-hole golf course, resort, civic arts plaza, and retail space. He also prepared the water and drainage master plans.

Havasu Foothills Estates Master-Planned Community, Lake Havasu City, AZ - Project Engineer

As project engineer, Sean provided engineering assistance for design of the grading and drainage, water, sewer, and hydrology improvement plans for Phase II of the project. He provided engineering assistance in crucial drainage and hydrology design for this project located at the base of a sizeable mountain range. Drainage must also be directed to meet downstream drainage channels.

Water System Improvements, Town of Parker, AZ - Project Manager

As project engineer, Sean recently designed various water system improvements involving replacement and relocation plans and permit approvals through ADOT and ADEQ, while working closely with the Town staff. He coordinated with ADOT, USACE, and WIFA for the 1-mile extension of the water system. He has been working directly for the Town engineer as lead engineer for the past 14 months. Pipelines have ranged from 2.5- to 6-inch replacements.