Offer Forms
(Attachments)
Date: January 8, 2018

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	Request for Qualifications Solicitation No. **ADSPO18-00007887** Description: **2018 Professional Services List**	Arizona Department of Administration **State Procurement Office** 100 N 15th Ave., Suite 201 Phoenix, AZ 85007

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. 1-4-18 (date)	JMM (initial)	

STRUCTURAL CONCEPTS INC. CONSULTING ENGINEERS
Offeror company name

Jennifer M. M Mahon JM
Signature of person authorized to sign Offer — Initials

8230 E. BROADWAY BLVD. SUITE W7
Address

JENNIFER M. MCMAHON, PRINCIPAL/OWNER
Printed name and title

TUCSON, AZ 85710
City | State | ZIP

AMY LEWIS, OFFICE MANAGER
Contact name and title

86-0722472
Federal tax identifier (EIN or SSN)

alewis@scice.com — 520-721-2324
Contact Email Address — Contact phone number

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

1. 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;
2. 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;
3. complies with A.R.S. § 41-3532 when offering electronics or information technology products, services, or maintenance; and
4. is not debarred from, or otherwise prohibited from participating in any contract awarded by federal, state, or local government.

ACCEPTANCE OF OFFER: State hereby **accepts the initial Offer**, Revised Offer, or Best and Final Offer identified **by number ADSPO17-00006796** at the top of this form, and which was dated 1/4/18 (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: ADSPO18-00007693 **The effective date of the Contract is:** 1/30/18-1/30/19 **Contract awarded** 1/30/18

Sean Wulfekuhle
Procurement Officer signature

Sean Wulfekuhle
Procurement Officer printed name

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

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: **This solicitation is restricted to those professional services within the scope of the practice of those services pursuant to Arizona Revised Statutes Title 32, Chapter.**

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.

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 compete 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.

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
Sabino Canyon Bridges	2016	2017	City of Tucson	$638,108.00	$637,388.50	SCI recently completed the structural design for a high-profile roadway extension for the City of Tucson. The design of the project began in 2009 and was completed in 2016. Construction commenced in January 2016 and the roadway opened to the public January 2017. The project included design of one 625' long, cast-in-place concrete, flat slab bridge over an existing landfill; one 355' long bridge with prestressed, precast concrete girders, concrete columns and drilled shafts over the Pantano Wash; and artistic pedestrian parapet walls, retaining walls, and noise walls. This project is representative of SCI's expertise in the realm of transportation infrastructure.
Tucson Water SCADA Integration Services Projects – OCC1 and OCC2	2016	Currently under construction	City of Tucson Water Department	$44,312.00	$40,301.40	SCI acted as the structural engineer for the renovation of two existing water treatment facilities to support the utility's upgrade of their monitoring and control system. Project design commenced in February 2016 and was completed in September 2016. Scope of services included design of an 800 square foot addition with concrete masonry bearing walls and wood i-joist roof framing; and design of a 750 square foot elevated slab infill constructed of structural steel framing and concrete slab on metal deck. Project challenges included detailing and design with consideration of existing conditions. The project is representative of SCI's recent work with jurisdictions and our

						expertise in building renovations.
Pecan Ranch Waste Water Treatment Plant, Phase IV	2017	2018	Johnson Utilities	$35,000.00	TBD	SCI provided structural engineering services for the design-build of a waste water treatment plant expansion for a private utility company in Maricopa County. The project design began with final construction document approval in January 2017. Construction is expected to begin February 2018. The scope of work included structural design of a one-million gallon, cast-in-place concrete tank designed to function without control joints; a three-sided building enclosure with masonry end walls, structural steel braced side walls, and open-web steel joist roof framing; and foundation for a metal building to house support equipment. This project is representative of SCI's focus on client needs and expertise in water treatment and utility infrastructure.
Structural Evaluation and Load Rating for Various Spreader Rack Structures	2012	2014	ADOT	$160,944.00	$149,156.94	As part of an open-ended services contract with the Arizona Department of Transportation, SCI performed field measurement, structural analysis, and provision of a load rating for a dozen separate structures where truck beds for spreading salt on roadways are stored across the state. All racks varied in size and construction, and required independent analysis. The field work commenced in late 2013, and evaluation reports were delivered to the client in March 2014. This project was one of 10 projects included in the on-call services contract completed in 2015.

University of Arizona South Stadium Parking Garage Special Inspections	**2017**	**2017**	**University of Arizona**	**$137,808.00**	**$133,732.80**	**SCI acted as structural special inspector of a new five-level 282,000 gross square foot parking garage for the University of Arizona. Special inspections performed by certified special inspectors and engineering staff included monostrand reinforcing and stressing for post-tension concrete (slabs, beams, and girders), reinforcing steel for concrete, concrete placement, masonry, post-installed anchor placement, and structural steel. Special inspection services took place January 2017 to August 2017. This project is indicative of SCI's versatility to perform construction phase services including special inspections.**

Attachment 2-A

Experience and Capacity

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

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).

EXAMPLE:

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Example: Architect	P	138	50-Yuma Branch 50-Tempe Branch 38 – Phoenix Branch
Example: Architect	S	20	5-Yuma Branch 5-Tempe Branch 5 – Phoenix Branch 5- Tucson Branch

a. Discipline Title	**b. Function: Primary (P) or Secondary (S)**	**c. No. of Employees Firm**	**d. No. of Employees Branch**
Project Manager	S	2	
Structural Engineer	P	4	
CADD Technician	P	1	
Construction Inspector	S	2	
Other	P	1	
Total		10	

Total		10	

3.0 FIRMS EXPERIENCE AND REVENUE

a. Firm shall complete the document titled "Number of Projects and Revenue", using same document title and upload in pdf format as an "Attachment" with firm's offer in ProcureAZ.

4.0 FIRMS SERVICES

a. Firm shall complete the Excel spreadsheet titled **"2018 Professional Services List of Firms Services"** and uploaded in Excel format only as an "Attachment" with firm's offer in ProcureAZ.

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
Psomas **333 E. Wetmore Road, Suite 450** **Tucson, AZ 85705**	**Alejandro Angel, PHD, P.E.** **Vice President**	**2009**	**2016**

Phone Number	Email Address
520-292-2300	**aangel@psomas.com**

List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.

Sabino Canyon Extension
Tucson, AZ
$456,000 / $601,500

Services performed similar to those described in Solicitation

Conceptual Design, Final Design, and Construction Phase Services. The project included design of one cast-in-place concrete, flat slab bridge over an existing landfill; one bridge with prestressed, precast concrete girders, concrete columns and drilled shafts over the Pantano; and structural design of artistic pedestrian parapet walls, retaining walls, and noise walls.

2 Client Company/Address	Contact	Begin Date	End Date
City of Tucson Water Department **PO Box 27450** **Tucson, AZ 85726-7450**	**Mike Sanders**	**8/2015**	**Under Construction**

Phone Number	Email Address
520-837-2192	**Mike.Sanders@tucsonaz.gov**

List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.

Tucson Water Old Vail Steel Tank
Tucson AZ
$47,428.00 / $47,428.00

Services performed similar to those described in Solicitation

SCI provided structural engineering services for the design of the foundation and steel structure for a new 250,000 gallon potable water tank. The new tank is an addition to an existing water distribution facility and will double the facilities capacity.

3 Client Company/Address	Contact	Begin Date	End Date
University of Arizona **303 E. University Blvd.** **PO Box 5** **Tucson, AZ 85719-0521**	**Chris Kraft**	**1/2017**	**8/2017**

Phone Number	Email Address
520-621-7546	**ckraft@u.arizona.edu**

List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.

U of A South Stadium Parking Garage Special Inspections
Tucson AZ
$137,808.00 / $133,732.80

Services performed similar to those described in Solicitation

SCI acted as structural special inspector of a new five-level 282,000 gross square foot parking garage for the University of Arizona. Special inspections performed by certified special inspectors and engineering staff included monostrand reinforcing and stressing for post-tension concrete (slabs, beams, and girders), reinforcing steel for concrete, concrete placement, masonry, post-installed anchor placement, and structural steel. Special inspection services took place January 2017 to August 2017. This project is indicative of SCI's versatility to perform construction phase services including special inspections.

End of Attachment 2-A

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	STRUCTURAL CONCEPTS, INC., CONSULTING ENGINEERS	Year established	1992
Principal address (street, city, state)	8230 E. BROADWAY BLVD SUITE W7 TUCSON, AZ 85710		
Entity type:	CORPORATION	Structure:	S CORPORATION
Branch or Division:	N/A	Parent:	N/A
		Years the organization has conducted business in Arizona.	26

Contract Representatives to Contact

	Name	Title	Telephone Number	E-Mail Address
1.	JENNIFER M MCMAHON	PRINCIPAL, OWNER	520-721-2324	jmcmahon@scice.com
2.	GEORGE R STEVENSON JR	PRINCIPAL, OWNER	520-721-2324	gstevesnon@scice.com
3.	AMY LEWIS	OFFICE MANAGER	520-721-2324	alewis@scice.com

Firm Professional Registration (INCLUDE COPY OF DOCUMENT IN OFFER)

	Description	Issuer	Number	Expiration
1.	Arizona Board of Technical Registration	State of Arizona	12787-0	04-28-18

End of Attachment 2-B

Attachment 3-A

Method Proposal

(Method of Approach)

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 3-A

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 and submit with firm's offer in ProcureAZ. Resumes shall not be listed in Attachment 3-B as Supplements.**

1	Name:	**Jennifer M. McMahon**	How long with company?	6 years
	Current position in company:	Principal / Owner	How long in positon?	3 years
	Position for the Services:	Project Principal / Project Manager	How much of time will be dedicated to the Services?	15 %
	What primary functions will be assigned?	Principal in Charge / Project Manager		
	Describe person's experience in performing services like those that are to be assigned:	Jennifer's diverse experience and engineering expertise have helped her to develop exceptional skills in project management, structural design, coordination for schedules and collaboration. Jennifer is currently the Principal Engineer or has acted as the Project Manager, for other on-call contracts with entities such as City of Tucson, Pima County, Arizona Department of Transportation, and Tucson Electric Power.		
	List person's job-related training and education:	Jennifer joined Structural Concepts, In. in July 2012, and quickly earned her position within the firm as a project manager and structural engineer. In 2015, Jennifer became a Principal and shares in the responsibility for the management of the firm. Jennifer began her career in 1998 and has since gained experience in structural engineering consulting in the Southwest, Midwest, and East Coast within the Civil, Commercial, Corporate, Education, Government, Health Care, Industrial, and Residential Sectors. Her knowledge extends from new design, building renovations and structural modifications, as well as building and other structures under complex static and dynamic loadings. She is a registered Structural Engineer in the State of Arizona. B.S. Civil Engineering / University of Iowa, 1998		
	Resume:	Jennifer M. McMahon		

2	**Name:**	**George R. Stevenson, Jr.**	How long with company?	26 years
	Current position in company:	Principal / Owner	How long in positon?	26 years
	Position for the Services:	Quality Control / Project Engineer	How much of time will be dedicated to the Services?	10 %
	What primary functions will be assigned?	Project Engineer and quality assurance. When required, George may act as the Principal in Charge / Project Manager.		
	Describe person's experience in performing services like those that are to be assigned:	George has a unique blend of construction experience and engineering expertise that have helped him develop exceptional skills in structural design, project management, quality control, personnel management, and coordination of schedules, budgets, and manpower. George is currently, or has acted as, the Principal Engineer for numerous on-call contracts with entities such as City of Tucson, Pima County, Arizona Department of Transportation, and Tucson Electric Power, and Southwest Gas.		
	List person's job-related training and education:	George has extensive experience designing structural engineering systems for new and historical buildings, building additions and renovations, and transportation and civil infrastructure. He also has many years of experience in performing forensic studies and evaluating the capacity of existing structures. He has a thorough working knowledge of construction techniques, materials, and costs, which is reflected in his consistently innovative yet practical designs. His unique blend of construction experience and engineering expertise have helped him develop exceptional skills in structural design, project management, quality control, personnel management, and coordination of schedules, budgets, and manpower. George is a registered Structural Engineer in the State of Arizona. B.S. Civil Engineering / University of Arizona, 1982		
	Resume:	George R. Stevenson, Jr.		

3	Name:	**Anthony Gravagne**	How long with company?	14
	Current position in company:	Structural Engineer	How long in positon?	14
	Position for the Services:	Structural Engineer	How much of time will be dedicated to the Services?	50
	What primary functions will be assigned?	Project Engineer		
	Describe person's experience in performing services like those that are to be assigned:	Tony has over 28 years experience in the structural engineering field. He provides engineering expertise on a variety of projects, specializing in structural engineering for transportation and civil infrastructure. The breadth of his experience ranges from cast-in-place and prestressed concrete to structural steel to reinforced masonry construction.		
	List person's job-related training and education:	Tony has extensive experience in the preparation of calculations, designs, drawings, specifications, cost estimates and engineering reports for structural projects. He has carried out finite element analyses of structures under complex static and dynamic loadings. Tony's attention to details and extensive and varied experience make him an invaluable addition to a design team. B.S. Civil Engineering / Newark College of Engineering, 1970		
	Resume:	Anthony Gravagne		

4 **Name:**	**Dan Lundwall**	How long with company?	26
Current position in company:	Structural Engineer	How long in position?	26
Position for the Services:	Structural Engineer	How much of time will be dedicated to the Services?	10
What primary functions will be assigned?	Project Engineer and design consultant		
Describe person's experience in performing services like those that are to be assigned:	Dan has over forty years of experience as a structural engineer in southern Arizona, and is recognized for having designed more than one hundred bridges in his career. Dan has a reputation for understanding the need to integrate designs with complex construction and existing conditions, and has an established track record for providing innovative structural design solutions		
List person's job-related training and education:	x Dan has extensive experience in civil infrastructure and transportation projects, from new design to structural evaluation. He is experienced in water-related infrastructure including reservoirs and booster stations, wastewater pollution control facilities, wastewater treatment plants, reclaimed treatment plants, dams, lakes, soil remediation facilities and hazardous waste storage facilities. Dan's transportation experience includes over one hundred bridges spanning highways, railroads, washes, and rivers for use by pedestrians, bicycles, cars, and trains. He has designed pre-cast, pre-stressed concrete girder bridges, cast-in-place post-tensioned concrete bridges, steel girder bridges and pre-engineered steel truss bridges ranging in size from single-span to nine-span and as long as 840 feet.		
Resume:	Dan Lundwall		

5 **Name:**	**Ted Ramirez**	How long with company?	25 years
Current position in company:	CAD Manager	How long in position?	25 years
Position for the Services:	CAD Manager	How much of time will be dedicated to the Services?	50%
What primary functions will be assigned?	AutoCAD Draftsman and Technician		
Describe person's experience in performing services like those that are to be assigned:	Ted has served as the CAD manager, senior drafting technician and field inspector for SCI. He has extensive drafting/design experience in all types of commercial, industrial and bridge construction. He is well versed in all drafting techniques and procedures in AutoCAD and manual drafting. He is responsible for producing construction documents, creating and reviewing as-built drawings and also performs field inspections as needed.		
List person's job-related training and education:	5 years construction experience 4 years mining and drilling experience Pima Community College Tucson Business College		
Resume:	Ted Ramirez		

6 **Name:**	**Jason Van Deusen**	How long with company?	1 year
Current position in company:	Special Inspector	How long in position?	1 year
Position for the Services:	Special Inspector	How much of time will be dedicated to the Services?	50%
What primary functions will be assigned?	Special Inspections		
Describe person's experience in performing services like those that are to be assigned:	Doug has 12 years of experience in providing special inspections. He has performed field inspection steel, welding, concrete, masonry timber on commercial, residential and multistory residential. His extensive experience includes both large and small scale projects.		
List person's job-related training and education:	ACI Certified Field Testing Technician Grade I I.C.C. Commercial Building Inspector I.C.C. Structural Masonry Special Inspector Certificate / Construction Management / Glendale Community College, 1996		
Resume:	Jason Van Deusen		

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.	Jennifer M McMahon	2018	1	Resume'
2.	George R Stevenson, Jr.	2018	1	Resume'
3.	Anthony R. Gravagne	2018	1	Resume'
4.	Dan R Lundwall	2018	1	Resume'
5.	Ted Ramirez	2018	1	Resume'
6.	Jason Van Deusen	2018	1	Resume'
7.				

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

End of Attachment 3-B

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.

1. 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.
2. 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.
3. 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		
2.	Name		
3.	Name		
4.	Name		
5.	Name		
6.	Name		
7.	Name		
8.	Name		
9.	Name		
10	Name		

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.	None	x	x	x
2.		x	x	x
3.		x	x	x
4.		x	x	x
5.		x	x	x
6.		x	x	x
7.		x	x	x
8.		x	x	x
9.		x	x	x
10.		x	x	x

End of Attachment 3-C

Attachment 3-D

Performance Guarantee

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 3-D

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:

x 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.

STRUCTURAL CONCEPTS, INC., CONSULTING ENGINEERS	Jennifer M. McMahon
Company Name	Signature of Person Authorized to Sign
8230 E. Broadway Blvd. Suite W7	Jennifer M McMahon
Tucson AZ 85710	Owner / Principal

End of Attachment 3-E

Attachment 4

Pricing Sheet

RESERVED FOR AWARDED DESIGN PROFESSIONAL SERVICE ORDER CONTRACT

End of Attachment 4

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":

●	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.
☐	This response DOES contain trade secret information because it contains information that: 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.

STRUCTURAL CONCEPTS, INC. CONSULTING ENG.	Jennifer M. McMahon
Offeror Company Name	Signature of Authorized Person
8230 E. Broadway Blvd. Suite W7 Tucson AZ 85710	Jennifer M. McMahon Owner / Principal
Address State Zip	Printed Name Title

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
2.				
3.				

End of Attachment 5-A

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.

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 the and attests that its 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 its 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 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 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**.

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 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

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
Article/ Paragraph or Appendix Reference	**Proposed Changes / Alternate Language**	**Rationale for Proposed Change**
Section 2-B: Uniform Terms & Conditions		

X	x	x
X	x	x
X	x	x

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
Section 2-B: Compensation Document		
x	x	x
x	x	x
x	x	x

STRUCTURAL CONCEPTS. INC., CONSULTING ENGINEERS

Company Name

Signature of Person Authorized to Sign

End of Attachment 5-B

Attachment 5-C

Insurance Evidence

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 5-C

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 - **SIGNED**	☒ YES ☐ no
2.	Attachment 2-A: Experience and Capacity	☒ YES ☐ no
3.	Attachment 2-A: References	☒ YES ☐ no
4.	Attachment 2-B: Organization Profile	☒ YES ☐ no
5.	Attachment 3-A: Method Proposal – RESERVED FOR AWARD	☐ YES ☒ **no**
6.	Attachment 3-B: Key Personnel Proposal	☒ YES ☐ no
7.	Attachment 3-C: Proposed Subcontractors – RESERVED FOR AWARD	☐ YES ☒ **no**
8.	Attachment 3-D: Performance Guarantee – RESERVED FOR AWARD	☐ YES ☒ **no**
9.	Attachment 3-E: Israel Boycott Form -**SIGNED**	☒ YES ☐ no
10.	Attachment 4: Pricing Sheet – RESERVED FOR AWARD	☐ YES, ☒ **no**
11.	Attachment 5-A: Confidential Information Designation	☒ YES ☐ no
12.	Attachment 5-B: Conformance Statements - **SIGNED**	☒ YES ☐ no
13.	Attachment 5-C: Insurance Evidence – RESERVED FOR AWARD	☐ YES ☒ **no**
14.	Attachment 5-D: Offer Checklist	☒ YES ☐ no
15.	Excel File: Number of Projects and Revenue	☒ YES ☐ no
16.	Excel File: 2018 Professional Services List of Firms Services	☒ YES ☐ no

End of Attachment 5-D

End of Part 4

STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS

ANTHONY GRAVAGNE, P.E., SECB

- 28 years professional experience
- Bridge design and inspection expert
- Project management experience
- Civil and transportation project experience

EDUCATION

- B.S., Civil Engineering, Newark College of Engineering, 1970

REGISTRATION

- Professional Civil Engineer, Arizona 26847
- Professional Structural Engineer, Arizona 34551
- Structural Engineering Certification Board #2086-0707

BACKGROUND

Tony has over 28 years experience in the structural engineering field. He joined SCI in March 2004 to provide engineering expertise on a variety of projects, specializing in structural engineering for transportation and civil infrastructure. He has extensive experience in the preparation of calculations, designs, drawings, specifications, cost estimates and engineering reports for structural projects. He has carried out finite element analyses of structures under complex static and dynamic loadings. The breadth of his experience ranges from cast-in-place and prestressed concrete to structural steel to reinforced masonry construction.

EXPERIENCE

Harshaw Road Oversize Load Review, Tucson, AZ – Structural Engineer
Pecan Ranch WWTP Phase III, Tucson, AZ – Structural Engineer
Old Vail Steel Tank, Tucson, AZ – Structural Engineer
Nakoma Sky Parking Garage, Tucson, AZ – Structural Engineer
Valencia Bridge @ Pantano Wash, Tucson, AZ – Structural Engineer
Houghton Bridge @ Pantano Wash, Tucson, AZ – Structural Engineer
Sabino Canyon Extension/Pantano Bridge and Mullins Bridge, Tucson, Structural Engineer
Tucson Water Standard Updates, Tucson, AZ – Structural Engineer
Continental Ranch Regional Pump Stations Upgrades, Tucson, AZ – Structural Engineer
State Prison Sewer Lift Station Rehabilitation, Tucson, AZ – Structural Engineer
Downtown Links Peer Review, Tucson, AZ – Structural Engineer
Sahuarita Road Bridge at the Santa Cruz River, Sahuarita, AZ – Structural Engineer
Haciendas RCBC Headwall & Wingwalls and Pedestrian Bridge, Tucson, AZ – Structural Engineer
Mission View Wash Sewer Crossing, Tucson, AZ – Structural Engineer
Pantano Linear Path Pedestrian Bridge, Tucson, AZ – Structural Engineer
Headwall Extensions, Canyon Pass V at Dove Mountain, Marana, AZ – Structural Engineer
UPRR Temporary Shoring, Tucson, AZ – Structural Engineer
Canez Substation Noise Wall, Tucson, AZ – Structural Engineer
Avilla Sabino East Detention Chamber Slab, Tucson, AZ – Structural Engineer
Columbus Wash Shoring Design, Tucson, AZ – Structural Engineer
La Villita Road Culvert Channel Stabilization, Tucson, AZ – Structural Engineer
Miami WRF Concrete Foundations, Miami, AZ – Structural Engineer

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8230 E. BROADWAY BLVD. SUITE W-7 TUCSON, AZ 85710

STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS

DAN R. LUNDWALL, P.E., SECB

- 41 years structural experience in southern Arizona
- Water storage and water treatment facilities design expertise
- Exceptional construction administration skills
- Personnel management skills
- Multi-disciplinary project management experience
- Construction cost estimating skills

EDUCATION

- B.S., Structural Engineering, University of Michigan, 1969
- ADOT Project Management Team Training, 1997

REGISTRATION

- Registered Structural Engineer, Arizona #12524
- Structural Engineering Certification Board #2057-0307
- Registered SAP Evaluator California E-M-A #65869

BACKGROUND

Dan is a founding Principal of Structural Concepts, Inc. He acts as project principal, project manager and structural engineer on many of the firm's projects and shares responsibility for engineering management and administration of the firm. He has over forty years of experience as a structural engineer in southern Arizona. Dan has a reputation for understanding the need to integrate designs with complex construction and existing conditions, and has an established track record for providing innovative structural design solutions.

Dan's structural engineering experience includes a wide variety of buildings, bridge, industrial and civil engineering projects, using a wide variety of materials. This experience spans from pre-design through construction documents and field review on new facilities and structural additions. He understands the need to integrate designs with complex construction, existing conditions and traffic constraints and has established a track record of providing innovative design solutions.

EXPERIENCE

Valencia Bridge at Pantano Wash, Tucson, AZ–Principal Engineer / Project Manager
Sabino Canyon Extension – Pantano and Mullins Bridges, Tucson, AZ **-** Principal Engineer / Project Manager
Houghton Bridge @ Pantano Wash, Tucson, AZ–Principal Engineer
Downtown Links Peer Review, Tucson, AZ–Principal Engineer
Sahuarita Road Bridge at the Santa Cruz River, Sahuarita, AZ–Principal Engineer / Structural Engineer
Pantano Linear Path Pedestrian Bridge, Tucson, AZ**–**Principal Engineer
Alvernon Bridge, Tucson, AZ **–** Principal Engineer / Project Manager
Redhawk "E" Zone Reservoir & "G" Zone Booster Station, Tucson, AZ**-**Principal Engineer / Project Manager
Pusch Ridge Reservoir Design and Construction Phase Services, Oro Valley, AZ**-**Principal Engineer / Project Manager
Ina Road WPCF Safety Improvements (Phase 1 & 2), Tucson AZ-Principal Engineer
Tucson Water Standard Updates, Tucson, AZ-Principal/Structural Engineer
Palo Parado Bridge at the Santa Cruz River, Santa Cruz County, AZ-Principal Engineer / Project Manager
Corona de Tucson WWTP Expansion Design and Construction Phase Services, Tucson, AZ-Principal Engineer / Project Manager
Roger Road Wastewater Treatment Plant, Pima County, AZ-Principal Engineer / Project Manager

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STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS

GEORGE R. STEVENSON, JR., P.E., SECB

EDUCATION

- B.S. Civil Engineering, University of Arizona, 1982

REGISTRATION

- Registered Structural Engineer, Arizona #21839
- Registered Civil Engineer, California #41141
- Registered Structural Engineer, Oregon #83308
- Registered Engineer, New Mexico #13216

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Arizona
- American Concrete Institute
- International Code Council

BACKGROUND

George is a founding Principal at Structural Concepts, Inc. He acts as project principal, project manager, and structural engineer on many of the firm's projects, and shares in the responsibility for management of the firm. He has over 41 years experience in the construction and engineering industries, including 34 as a structural engineer and seven as a contractor working in masonry, carpentry, and concrete.

He has a thorough working knowledge of construction techniques, materials, and costs, which is reflected in his consistently innovative yet practical designs. His unique blend of construction experience and engineering expertise have helped him develop exceptional skills in structural design, project management, quality control, personnel management, and coordination of schedules, budgets, and manpower.

George has extensive experience designing structural engineering systems for new buildings, building additions and renovations, and transportation and civil infrastructure. He also has many years of experience in evaluating
In performing forensic studies and evaluating the capacity of existing structures.

EXPERIENCE

Sam Lena Library Renovation, Tucson, AZ – Principal Engineer
Pecan Ranch WWTP Phase III & IV, Tucson, AZ – Principal Engineer /Structural Engineer
Operable Wall Install Design, Tucson, AZ – Principal Engineer/ Structural Engineer
Continental Ranch Regional Pump Station Upgrades, Tucson, AZ – Principal Engineer/Structural Engineer
State Prison Sewer Lift Station Rehabilitation, Tucson, AZ – Principal Engineer
U of A Maricopa Field Gantry Crane Foundation & Concrete Slab Tucson, AZ – Principal Engineer / Structural Engineer
Komatsu Truck Stop Apron Slabs, Tucson, AZ – Principal Engineer / Structural Engineer
Southwest Ambulance, Tucson, AZ – Principal Engineer / Structural Engineer
Sahuarita Road Bridge at the Santa Cruz River, Sahuarita, AZ – Structural Engineer
Legal Services Building, Tucson, AZ – Structural Engineer
Kino Sports Complex, Tucson, AZ – Principal Engineer / Structural Engineer
Kino Concession Booth Addition, Tucson, AZ – Principal Engineer / Structural Engineer
Mission Library Concrete Duct Repair, Tucson, AZ – Principal Engineer

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STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS

JASON VAN DEUSEN, SPECIAL INSPECTOR

- ACI certified field testing technician
- ICC certified special inspector for reinforced concrete and structural masonry

DISCIPLINES

- Reinforced concrete
- Reinforced masonry
- Visual inspection of field welds
- Epoxy
- Expansion anchor installation

BACKGROUND

Jason joined Structural Concepts Inc. as a certified special inspector in 2016. Prior to employment at SCI, Jason earned 10+ years experience providing special inspections for two reputable engineering firms in the Phoenix area. Jason's work ethic, attention to detail, and professional character have made him a valuable part of SCI's team.

Jason's experience includes special inspections for concrete placement, reinforcement, masonry, post-installed anchors, post-tensioned monostrand stressing, and other structural inspections. His recent Tucson experience includes the following projects:

University of Arizona South Stadium Parking Structure
Lead special inspector for a five-story, cast-in-place parking garage. Inspection tasks included monostrand reinforcing and stressing for post-tension concrete, reinforcing steel for concrete, concrete placement, reinforcement and grout placement of concrete masonry, and post-installed anchor placement.

City of Tucson Clearwell Reservoir Roof Replacement
Special inspector to assist Tucson Water staff in performing inspections of a specialty roof system over a 30-million gallon potable water reservoir.

TEP Robert Substation
Lead special inspector for a utility station site wall and retaining wall. Inspection tasks included reinforcing steel for concrete, concrete placement and structural masonry.

A sample of Jason's experience while in the Phoenix area includes:

Marana Heights @ Tempe Town Lake
Harbor Ferry @Tempe Town Lake
Scottsdale Waterfront Retail Complex
Sun Devil Stadium North End Remodel
Fed Ex North Phoenix Distribution Center
Arcadia High School
Irish Cultural Center
Sagewood Retirement Community
Trillium / Broadstone Apartment Complexes
City of Phoenix projects at the Civic Center and Phoenix Art Museum
Several large retail centers (Walmart, Costco, Desert Ridge & Tempe Marketplace)
Several expansion projects at Mayo Hospital Clinic Campus

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ATTACHMENT 3-B1 SUPPLEMENT:

STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS

JENNIFER M. MCMAHON, S.E., P.E.

EDUCATION

- B.S. Civil Engineering, University of Iowa, 1998

REGISTRATION

- Registered Structural Engineer, Arizona #55005
- Registered Civil Engineer, Arizona #54137
- Registered Professional (Structural) Engineer, Iowa #16958
- Registered Professional (Structural) Engineer, Texas #12430
- Structural Engineering Certification Board #1469-0705

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Arizona
- Tucson's Leading Women

BACKGROUND

Jennifer joined Structural Concepts, Inc. in July 2012, and quickly earned her position within the firm as a project manager and structural engineer. In 2015, Jennifer became a Principal and shares in the responsibility for the management of the firm. Jennifer began her career in 1998 and has since gained experience in structural engineering consulting in the Southwest, Midwest, and East Coast within the Civil, Commercial, Corporate, Education, Government, Health Care, Industrial, and Residential Sectors.

Her diverse experience and engineering expertise have helped her to develop exceptional skills in project management, structural design, coordination of schedules and collaboration.

Jennifer's knowledge extends from new design, building renovations and structural modifications, as well as building and other structure evaluations. She has carried out finite element analyses of structures under complex static and dynamic loadings.

EXPERIENCE

Nakoma Sky Parking Garage, Oro Valley, AZ – Structural Engineer / Structural Engineer
TW SCADA Upgrades OCC1 & OCC2, Tucson, AZ – Principal Engineer / Project Manager
Tuff Shed, El Paso, TX – Principal Engineer / Structural Engineer
TW Old Vail Steel Tank, Tucson, AZ – Principal Engineer
Imperial Irrigation District Facility Upgrades, Tucson, AZ – Principal Engineer
Sabino Canyon Extension – Pantano Mullins Bridges, Tucson, AZ – Structural Engineer
Hamstra Building, Tucson, AZ – Structural Engineer
Hacienda at the River, Tucson, AZ – Structural Engineer
Mission Library Concrete Duct Repair, Tucson, AZ – Structural Engineer
Plaza Centro Review, Tucson, AZ – Structural Engineer
Clearwell Reservoir V.V. Safety Grating, Tucson, AZ – Principal Engineer
Legal Services Building Tenant Improvement, Tucson, AZ – Principal/Structural Engineer
Keyshop & Restroom Addition, Tucson, AZ – Principal/Structural
Kino Sports Complex Maintenance Wash Pad, Tucson, AZ – Principal Engineer
DOT Ice Storage Building, Tucson, AZ – Principal Engineer / Structural Engineer
Pima County Data Center 6th Floor Load Analysis, Tucson, AZ – Structural Engineer

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ADSPO18-00007887 Project Experience N

ADSPO18-00007887 2018 Professional

FIRMS NAME: STRUCTURAL CONCEPTS.

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			
Activity Centers			
Aerial Photography; Airborne Data and Imagery Collection and Analysis			
Agricultural Development; Grain Storage; Farm Mechanization	3	1	1
Air Pollution Control			
Airports; Navaids; Airport Lighting; Aircraft Fueling			
Airports; Terminals and Hangars; Freight Handling			
Animal Facilities			
Anti-Terrorism/Force Protection			
Area Master Planning			
Auditoriums and Theaters			
Automation; Controls; Instrumentation			
Barracks; Dormitories			
Bridge Design: Bridges	16	3	1
Cartography			
Cemeteries *(Planning and Relocation)*			
Chemical Processing and Storage			
Child Care/Development Facilities			
Codes; Standards; Ordinances			
Cold Storage; Refrigeration and Fast Freeze			
Commercial Building *(Low Rise)* ; Shopping Centers			

Communications Systems; TV; Microwave			
Community Facilities			
Computer Facilities			
Conservation and Resource Management			
Construction Management			
Construction Materials Testing			
Construction Surveying			
Controls and Electronics Engineer			
Corrosion Control; Cathodic Protection Electrolysis			
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting			
Cryogenic Facilities			
Dams *(Concrete; Arch)*			
Dams *(Earth; Rock)* ; Dikes; Levees			
Desalinization *(Process and Facilities)*			
Design & Planning Structured Parking Facilities			
Design-Build - Preparation of Requests for Proposals			
Detention Security Systems			
Digital Elevation and Terrain Model Development			
Digital Orthophotography			
Dining Halls; Clubs; Restaurants			
Disability / Special Needs			
Dredging Studies and Design			
Ecological and Archeological Investigations			
Educational Facilities; Classrooms			
Electrical Studies and Design			
Electronics			
Elevators; Escalators; People-Movers			
Energy / Water Auditing Savings			
Energy Conservation; New Energy Sources			
Environmental Impact Studies, Assessments or Statements			
Fallout Shelters; Blast-Resistant Design			
Fire Protection			
Fisheries; Fish Ladders			
Forensic Engineering	24	1	1
Garages; Vehicles Maintenance Facilities; Parking	1	1	1
Gas Systems *(Propane; Natural, Etc.)*			
Geodetic Surveying: Ground and Airborne			
Heating; Ventilating; Air Conditioning			

Highways; Streets; Airfield Paving; Parking Lots			
Historical Preservation			
Hospital and Medical Facilities			
Hotels; Motels			
Housing (Residential, Multi-Family; Apartments; Condominiums)	33	1	1
Hydraulics and Pneumatics			
Hydrographic Surveying			
Industrial Buildings; Manufacturing Plants	31	2	2
Industrial Processes; Quality Control			
Industrial Waste Treatment			
Intelligent Transportation Systems			
Infrastructure			
Irrigation; Drainage			
Judicial and Courtroom Facilities			
Laboratories; Medical Research Facilities			
Labs - General			
Labs – Research – Dry			
Labs – Research – Wet			

umber of Projects and Revenue
l Services Qualifications List

INC. CONSULTING ENGINEERS

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
Land Surveying			
Landscape Architecture			
LEED Accredited A/E			
LEED Independent 3rd Party Building Commissioning			
Libraries; Museums; Galleries			
Lighting *(Exteriors; Streets; Memorials; Athletic Fields, Etc.)*			
Lighting *(Interior; Display; Theater, Etc.)*			
Lighting *(Cave; Cavern)*			
Mapping Location/Addressing Systems			
Materials Handling Systems; Conveyors; Sorters			
Materials Testing			
Measurement / Verification / Conservation Water Consumption			
Medical Related			
Metallurgy			
Mining and Mineralogy	34	2	2
Modular Systems Design; Pre-Fabricated Structures or Components			
Mold Investigation			
Museums			
Nuclear Facilities; Nuclear Shielding			
Office Buildings; Industrial Parks	8	1	1
Outdoor Recreation			

Petroleum and Fuel *(Storage and Distribution)*			
Phase I Environmental			
Photogrammetry			
Pipelines *(Cross-Country - Liquid and Gas)*			
Plumbing and Piping Design			
Pneumatic Structures, Air-Support Buildings			
Power Generation, Transmission, Distribution			
Prisons and Correctional Facilities			
Product, Machine Equipment Design			
Public Safety Facilities	2	1	1
Radar; Sonar; Radio and Radar Telescopes			
Radio Frequency Systems and Shieldings			
Railroad; Rapid Transit			
Recreation Facilities *(Parks, Marinas, Etc.)*			
Refrigeration Plants/Systems			
Rehabilitation *(Buildings; Structures; Facilities)*	40	2	1
Research Facilities			
Resources Recovery; Recycling			
Rivers; Canals; Waterways; Flood Control	7	1	1
Roof Infrared Imaging to Identify Water Leaks			
Roofing			
Safety Engineering; Accident Studies; OSHA Studies	4	1	1
Security Systems; Intruder and Smoke Detection			
Seismic Designs and Studies			
Sewage Collection, Treatment and Disposal			
Soils and Geologic Studies; Foundations	13	1	1
Solar Energy Utilization			
Solid Wastes; Incineration; Landfill			
Special Environments; Clean Rooms, Etc.			
Specifications Writing			
Storm Water Handling and Facilities			
Structural Design; Special Structures	24	1	1
Surveying; Platting; Mapping; Flood Plain Studies			
Sustainable Design			
Swimming Pools			
Testing and Inspection Services	20	2	1
Topographic Surveying and Mapping			
Towers (Self-Supporting and Guyed Systems)			

Toxicology			
Traffic and Transportation Engineering			
Traffic Studies			
Transportation			
Tunnels and Subways			
Urban Renewals; Community Development			
Utilities (Gas and Steam)	9	1	1
Value Analysis; Life-Cycle Costing			
Warehouse and Depots			
Waste Water Treatment Facility	24	2	1
Water Resources; Hydrology; Ground Water			
Water Supply; Treatment and Distribution	14	1	1
Water Well Rehabilitation; Water Well Work			
Wind Tunnels; Research/Testing Facilities Design			
Zoning; Land Use Studies			

Professional Services Index Number	**Revenue**
1. Less than $100,000	
2. $100,000 to less than $250,000	
3. $250,000 to less than $500,00	
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	

STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS

TED RAMIREZ, CAD MANAGER

- 30 plus years of drafting & design experience in structural, architectural & electrical engineering
- 5 years construction experience
- 4 years mining and drilling experience

BACKGROUND

Mr. Ramirez joined Structural Concepts Inc., in November 1992, as an AutoCAD draftsman and senior technician. Ted is a highly capable and self-directed individual.

Mr. Ramirez has served as the CAD manager, senior drafting technician and field inspector for SCI. He has successfully set up our CAD department and developed our drawing standards. Ted has extensive drafting / design experience in all types of commercial, industrial and bridge construction. He is well versed in all drafting techniques and procedures in AutoCAD and manual drafting. He is responsible for producing construction documents, creating and reviewing as-built drawings and also performs field inspections as needed.

Ted is an accomplished musician and songwriter and has produced several albums. He is also the official Tucson Troubadour.

Ted has served on various boards and volunteered his time to numerous community organizations including: Sister Cities, Los Descendientes del Presidio de Tucson, Presidio Trust, Arizona Historical Society, Santa Cruz River Alliance, Little League Baseball, YMCA and AYSO Soccer.

EDUCATION

- Pima Community College
- Tucson Business College

[520] 721-2324 FAX [520] 885-3507
8230 E. BROADWAY BLVD. SUITE W-7 TUCSON, AZ 85710

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DUNS: 197113582	+4:	CAGE Code: 0GT91	DoDAAC:
Expiration Date: Aug 7, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No	
Address: 1305 S Roller Rd			
City: Ocean		State/Province: NEW JERSEY	
ZIP Code: 07712-3903		Country: UNITED STATES	

STATE OF ARIZONA
BOARD OF TECHNICAL REGISTRATION

■ FIRM REGISTRATION ■

FIRM NAME
Structural Concepts, Inc. Consulting Engineers

FIRM REGISTRATION NO.: 12787-0

FIRM ADDRESS
8230 E Broadway Boulevard
Suite W-7
Tucson, Arizona 85710

EXPIRES: 4/25/2018

SERVICES OFFERED
Engineer/Structural

MELISSA CORNELIUS
EXECUTIVE DIRECTOR
FOR THE BOARD