



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

1. Annual Request for Qualifications

a. FIRM (OR BRANCH OFFICE) NAME:	CARDNO
b. FIRM (OR BRANCH OFFICE) STREET:	9977 N. 90 TH STREET SUITE150
c. FIRM (OR BRANCH OFFICE) CITY:	SCOTTSDALE
d. FIRM (OR BRANCH OFFICE) STATE:	ARIZONA
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85258

f. YEAR ESTABLISHED:	1947
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(g1). OWNERSHIP - TYPE:	CORPORATION
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	NO

h. POINT OF CONTACT NAME AND TITLE:	SHANE GESCH
i. POINT OF CONTACT TELEPHONE NUMBER:	602 -977- 8001
j. POINT OF CONTACT E-MAIL ADDRESS:	SHANE.GESCH@CARDNO.COM

k. NAME OF FIRM (If block 1a is a branch office):	CARDNO
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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME BENJAMIN NJUGUNA	b. ROLE IN THIS CONTRACT CIVIL ENGINEER/PROJECT MANAGER	c. YEARS EXPERIENCE	
		1. TOTAL 8	2. WITH CURRENT FIRM 1 YEAR 6 MONTHS
d. LOCATION <i>(City and State)</i> <i>CARDNO, SCOTTSDALE, ARIZONA</i>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS/ CIVIL ENGINEERING		f. PROFESSIONAL TRAINING - REGISTRATIONS <i>PROFESSIONAL ENGINEER, AZ, 54742</i>	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <i>SAN VICTOR - SCOTTSDALE, ARIZONA</i>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: CIVIL ENGINEER / PROJECT MANAGER Client: Standard Pacific Homes Project Budget: \$85,000 San Victor is an approximately 6-acre multifamily residential development located at the southeast corner of 90th Street and San Victor Drive in the City of Scottsdale, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Cardno carried out extensive coordination with the design team as well as the City of Scottsdale and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development. Both Professional Services and construction are presently ongoing.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <i>QUERENCIA – PEORIA, ARIZONA</i>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: CIVIL ENGINEER / PROJECT MANAGER Client: Meritage Homes Project Budget: \$140,000 Querencia is an approximately 47-acre single family residential subdivision located about 0.25 miles southeast of the intersection of Jomax Road and Lake Pleasant Parkway in the City of Peoria, Arizona. Cardno performed the civil engineering and survey services for the project including and aerial survey of the project site as well as design and preparation of civil improvement plans for the project. A 404 wash study was conducted on an existing wash that cut across one edge of the property followed by the filing for a 404 permit with the US Army Corps of Engineers. Work on this project involved extensive coordination with the City of Peoria due to the challenges posed by the hilly terrain on the site. There was also a considerable amount of effort put into coordination with private utility companies owing to the presence of transmission mains across the property. Both Professional Services and construction are presently ongoing.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <i>SIENA AT OCOTILLA – CHANDLER, ARIZONA</i>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: CIVIL ENGINEER / PROJECT MANAGER Client: Standard Pacific Homes Project Budget: \$80,000	<input checked="" type="checkbox"/> Check if project performed with current firm	



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Siena at Ocotillo is an approximately 8-acre multifamily residential development located at the southeast corner of Dobson Road and Market Place in the City of Chandler, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Civil engineering work also included the design of an underground storm water storage system as well as the design of a storm water filtration system to remove debris and sediments from onsite runoff before conveying it to the system of manmade lakes in the area. Cardno carried out extensive coordination with the design team, the City of Chandler, the Ocotillo Design Review Board and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development.

Both Professional Services and construction are presently ongoing.

(1) TITLE AND LOCATION *(City and State)*

SANTAN 30 – PINAL COUNTY, ARIZONA

(2) YEAR COMPLETED

Professional Services
2014

Construction (if applicable)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

Role: **CIVIL ENGINEER / PROJECT MANAGER**
Client: **CSWR131 Mortensen, LLC** Project Budget: **\$90,000**

4.

San Tan 30 is an approximately 30-acre single family residential subdivision located near the southeast corner of Ocotillo Road and Coyote Road in Pinal County, Arizona. Cardno performed the civil engineering and survey services for the project including the ALTA and Topographic Survey, design and preparation of the Tentative Plat for the project. Cardno is under contract to design and prepare civil improvement plans as well as a final plat for the development. Cardno's work in this project will involve extensive coordination with the County as well as the different utility companies that serve the area.

Both Professional services and Construction are on-going.

(1) TITLE AND LOCATION *(City and State)*

PRADERA – GOODYEAR, ARIZONA

(2) YEAR COMPLETED

Professional Services
2014

Construction (if applicable)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

Role: **CIVIL ENGINEER / PROJECT MANAGER**
Client: **CSWR131 Mortensen, LLC** Project Budget: **\$90,000**

5.

Pradera is an approximately 160-acre property located at the northwest corner of Citrus Road and Lower Buckeye Road in Goodyear, Arizona. Cardno previously designed the development as a progressive residential community, offering a variety of lot sizes and home types and also features multiple recreation trails and parks. The development was approved in the past but was never built. Cardno's recent work on this project has involved coordination with the City of Goodyear and other authorities having jurisdiction to update the old plans and obtain reapproval of the civil improvement plans. Extensive coordination has been carried out with the plan review agencies to ensure the project got credit for the previously approved plans.

Both Professional services and Construction are on-going



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME MICHAEL SEXTON	b. ROLE IN THIS CONTRACT LAND SURVEYOR	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 3
d. LOCATION <i>(City and State)</i> <i>CARDNO, SCOTTSDALE, ARIZONA</i>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> AS/COMPUTER PROGRAMING/ARIZONA TECHNICAL INSTITUTE		f. PROFESSIONAL TRAINING - REGISTRATIONS <i>PROFESSIONAL LAND SURVEYOR ARIZONA #23385 (FEB-1989)</i>	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <i>ARIZONA PROFESSIONAL LAND SURVEYORS , AMERICAN CONGRESS ON SURVEYING AND MAPPING</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<i>SAN VICTOR - SCOTTSDALE, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: SURVEYOR Client: Standard Pacific Homes Project Budget: \$85,000 San Victor is an approximately 6-acre multifamily residential development located at the southeast corner of 90th Street and San Victor Drive in the City of Scottsdale, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Cardno carried out extensive coordination with the design team as well as the City of Scottsdale and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development. Both Professional Services and construction are presently ongoing.		
2.	<i>QUERENCIA – PEORIA, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: SURVEYOR Client: Meritage Homes Project Budget: \$140,000 Querencia is an approximately 47-acre single family residential subdivision located about 0.25 miles southeast of the intersection of Jomax Road and Lake Pleasant Parkway in the City of Peoria, Arizona. Cardno performed the civil engineering and survey services for the project including and aerial survey of the project site as well as design and preparation of civil improvement plans for the project. A 404 wash study was conducted on an existing wash that cut across one edge of the property followed by the filing for a 404 permit with the US Army Corps of Engineers. Work on this project involved extensive coordination with the City of Peoria due to the challenges posed by the hilly terrain on the site. There was also a considerable amount of effort put into coordination with private utility companies owing to the presence of transmission mains across the property. Both Professional Services and construction are presently ongoing.		
3.	<i>SIENA AT OCOTILLA – CHANDLER, ARIZONA</i>		



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		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Role: SURVEYOR Client: Standard Pacific Homes Project Budget: \$80,000</p> <p>Siena at Ocotillo is an approximately 8-acre multifamily residential development located at the southeast corner of Dobson Road and Market Place in the City of Chandler, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Civil engineering work also included the design of an underground storm water storage system as well as the design of a storm water filtration system to remove debris and sediments from onsite runoff before conveying it to the system of manmade lakes in the area. Cardno carried out extensive coordination with the design team, the City of Chandler, the Ocotillo Design Review Board and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development.</p> <p>Both Professional Services and construction are presently ongoing.</p>		
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	<i>SAN TAN 30 – PINAL COUNTY, ARIZONA</i>	Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	<p>Role: SURVEYOR Client: CSWR131 Mortensen, LLC Project Budget: \$90,000</p> <p>San Tan 30 is an approximately 30-acre single family residential subdivision located near the southeast corner of Ocotillo Road and Coyote Road in Pinal County, Arizona. Cardno performed the civil engineering and survey services for the project including the ALTA and Topographic Survey, design and preparation of the Tentative Plat for the project. Cardno is under contract to design and prepare civil improvement plans as well as a final plat for the development. Cardno's work in this project will involve extensive coordination with the County as well as the different utility companies that serve the area.</p> <p>Both Professional services and Construction are on-going.</p>		
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	<i>PRADERA – GOODYEAR, ARIZONA</i>	Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	<p>Role: SURVEYOR Client: CSWR131 Mortensen, LLC Project Budget: \$90,000</p> <p>Pradera is an approximately 160-acre property located at the northwest corner of Citrus Road and Lower Buckeye Road in Goodyear, Arizona. Cardno previously designed the development as a progressive residential community, offering a variety of lot sizes and home types and also features multiple recreation trails and parks. The development was approved in the past but was never built. Cardno's recent work on this project has involved coordination with the City of Goodyear and other authorities having jurisdiction to update the old plans and obtain reapproval of the civil improvement plans. Extensive coordination has been carried out with the plan review agencies to ensure the project got credit for the previously approved plans.</p> <p>Both Professional services and Construction are on-going.</p>		



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME MIKE DEW	b. ROLE IN THIS CONTRACT LANDSCAPE ARCHITECT	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 10
d. LOCATION (City and State) <i>CARDNO, SCOTTSDALE, ARIZONA</i>			
e. EDUCATION (DEGREE AND SPECIALIZATION) BSD/HOUSING AND URBAN DEVELOPMENT		f. PROFESSIONAL TRAINING - REGISTRATIONS LANDSCAPE ARCHITECT, ARIZONA #49567	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<i>THE MEADOWS – PEORIA, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: LANDSCAPE ARCHITECT Client: Communities Southwest Project Budget: \$1,100,000 The Meadows is a part of the Camino á Lago Master Planned community consisting of approximately 1,350 acres, located in Peoria, AZ. Community Southwest is currently developing The Meadows, which is comprised of ten development units totaling 694 acres. Cardno is providing multidisciplinary services including concept master plans, master drainage design, civil engineering design, subdivision design, landscape architecture design, and theming. The Meadows is a master-planned mixed use development consisting of single-family detached residential homes, a community center, an elementary school, and a city park. The community has been designed to provide a broad range of residential zoning districts. The Meadows is part of the Camino A Lago Master Planned Community that was prepared by the Arizona State Land Department in the City of Peoria. The Cardno team provided multidisciplinary services including civil engineering, drainage, surveying, landscape architecture, and planning from the Planned Community Development amendment and rezoning stage to the preliminary plat stage to the final plat. Cardno is working with the State Land Department and the City for the preparation of a State Plat for designation of the arterial and collector road locations and alignments. This project is still under construction.		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	<i>NORTHLANDS- PEORIA, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: LANDSCAPE ARCHITECT Client: Pulte Homes Project Budget: \$140,000 Northlands is an approximately 1,000 are planned community located in Peoria, Arizona adjacent to the eastern bank of the Agua Fria River. It will include 2,100 dwelling units. This project is designed as a sustainable community. It has preserved large open spaces including Calderwood Butte which is located in the northern half of the project. The community will provide ample open spaces with parks and trails that connect to the Maricopa County Regional Trail system as well as to the Maricopa County Agua Fria River Trail System. This project is still under construction.		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	<i>LA ESQUINA – CHANDLER, ARIZONA</i>	2014	Spring 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: LANDSCAPE ARCHITECT Client: Maracay Homes Project Budget: \$75,000 La Esquina is an approximately 19 acre planned community located in Chandler, Arizona. It is located on the northwest corner of Ocotillo Road and Gilbert Road. Once a commercial corner, the project was rezoned as a high-density single family community. It is comprised of		<input checked="" type="checkbox"/> Check if project performed with current firm



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79 z-lots. It will include a central park with a community pool and a tot lot, custom gates, and conceptual design for the rezoning application as well as construction documentation for this project.

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	<i>MACY'S GOODYEAR FULFILLMENT CENTER – GOODYEAR, ARIZONA</i>	Professional Services 2014	Construction (if applicable) 2014
4.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: LANDSCAPE ARCHITECT Client: Project Budget: \$25,000 This was project was an expansion to an existing 50 acre Macy's Distribution Facility. Cardno prepared planting and irrigation plans to match existing site conditions and utilize the existing irrigation system.	<input checked="" type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/>	Check if project performed with current firm



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME TYLER TUSSEY	b. ROLE IN THIS CONTRACT CADD TECHNICIAN	c. YEARS EXPERIENCE	
		1. TOTAL 4	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) CARDNO, SCOTTSDALE, ARIZONA			
e. EDUCATION (DEGREE AND SPECIALIZATION) UNIVERSITY OF ARIZONA – CIVIL ENGINEERING		f. PROFESSIONAL TRAINING - REGISTRATIONS ENGINEER IN TRAINING	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) SAN VICTOR - SCOTTSDALE, ARIZONA	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Standard Pacific Homes Project Budget: \$85,000 San Victor is an approximately 6-acre multifamily residential development located at the southeast corner of 90th Street and San Victor Drive in the City of Scottsdale, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Cardno carried out extensive coordination with the design team as well as the City of Scottsdale and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development. Both Professional Services and construction are presently ongoing.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) QUERENCIA – PEORIA, ARIZONA	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Meritage Homes Project Budget: \$140,000 Querencia is an approximately 47-acre single family residential subdivision located about 0.25 miles southeast of the intersection of Jomax Road and Lake Pleasant Parkway in the City of Peoria, Arizona. Cardno performed the civil engineering and survey services for the project including and aerial survey of the project site as well as design and preparation of civil improvement plans for the project. A 404 wash study was conducted on an existing wash that cut across one edge of the property followed by the filing for a 404 permit with the US Army Corps of Engineers. Work on this project involved extensive coordination with the City of Peoria due to the challenges posed by the hilly terrain on the site. There was also a considerable amount of effort put into coordination with private utility companies owing to the presence of transmission mains across the property. Both Professional Services and construction are presently ongoing.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) SIENA AT OCOTILLA – CHANDLER, ARIZONA	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Role: CADD TECHNICIAN
Client: Standard Pacific Homes Project Budget: \$80,000

Siena at Ocotillo is an approximately 8-acre multifamily residential development located at the southeast corner of Dobson Road and Market Place in the City of Chandler, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Civil engineering work also included the design of an underground storm water storage system as well as the design of a storm water filtration system to remove debris and sediments from onsite runoff before conveying it to the system of manmade lakes in the area. Cardno carried out extensive coordination with the design team, the City of Chandler, the Ocotillo Design Review Board and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development.

Both Professional Services and construction are presently ongoing.

(1) TITLE AND LOCATION (*City and State*)

SAN TAN 30 – PINAL COUNTY, ARIZONA

(2) YEAR COMPLETED

Professional Services 2014	Construction (if applicable)
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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Role: CADD TECHNICIAN
Client: CSWR131 Mortensen, LLC Project Budget: \$90,000

San Tan 30 is an approximately 30-acre single family residential subdivision located near the southeast corner of Ocotillo Road and Coyote Road in Pinal County, Arizona. Cardno performed the civil engineering and survey services for the project including the ALTA and Topographic Survey, design and preparation of the Tentative Plat for the project. Cardno is under contract to design and prepare civil improvement plans as well as a final plat for the development. Cardno's work in this project will involve extensive coordination with the County as well as the different utility companies that serve the area.

Both Professional services and Construction are on-going.

(1) TITLE AND LOCATION (*City and State*)

PRADERA – GOODYEAR, ARIZONA

(2) YEAR COMPLETED

Professional Services 2014	Construction (if applicable)
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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Role: CADD TECHNICIAN
Client: CSWR131 Mortensen, LLC Project Budget: \$90,000

Pradera is an approximately 160-acre property located at the northwest corner of Citrus Road and Lower Buckeye Road in Goodyear, Arizona. Cardno previously designed the development as a progressive residential community, offering a variety of lot sizes and home types and also features multiple recreation trails and parks. The development was approved in the past but was never built. Cardno's recent work on this project has involved coordination with the City of Goodyear and other authorities having jurisdiction to update the old plans and obtain reapproval of the civil improvement plans. Extensive coordination has been carried out with the plan review agencies to ensure the project got credit for the previously approved plans.

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a. NAME MICHAEL JERMAINE	b. ROLE IN THIS CONTRACT CADD TECHNICIAN	c. YEARS EXPERIENCE	
		1. TOTAL 2	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> <i>CARDNO, SCOTTSDALE, ARIZONA</i>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS/CIVIL ENGINEERING – ENVIRONMENTAL (ASU) BA/COMMUNICATION (SAN DIEGO STATE UNIVERSITY)		f. PROFESSIONAL TRAINING - REGISTRATIONS <i>ENGINEER IN TRAINING</i>	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
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1.	<i>SAN VICTOR - SCOTTSDALE, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Standard Pacific Homes Project Budget: \$85,000 San Victor is an approximately 6-acre multifamily residential development located at the southeast corner of 90th Street and San Victor Drive in the City of Scottsdale, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Cardno carried out extensive coordination with the design team as well as the City of Scottsdale and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development. Both Professional Services and construction are presently ongoing.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<i>QUERENCIA – PEORIA, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Meritage Homes Project Budget: \$140,000 Querencia is an approximately 47-acre single family residential subdivision located about 0.25 miles southeast of the intersection of Jomax Road and Lake Pleasant Parkway in the City of Peoria, Arizona. Cardno performed the civil engineering and survey services for the project including and aerial survey of the project site as well as design and preparation of civil improvement plans for the project. A 404 wash study was conducted on an existing wash that cut across one edge of the property followed by the filing for a 404 permit with the US Army Corps of Engineers. Work on this project involved extensive coordination with the City of Peoria due to the challenges posed by the hilly terrain on the site. There was also a considerable amount of effort put into coordination with private utility companies owing to the presence of transmission mains across the property. Both Professional Services and construction are presently ongoing.	<input checked="" type="checkbox"/>	Check if project performed with current firm
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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Role: CADD TECHNICIAN
Client: Standard Pacific Homes Project Budget: \$80,000

Siena at Ocotillo is an approximately 8-acre multifamily residential development located at the southeast corner of Dobson Road and Market Place in the City of Chandler, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Civil engineering work also included the design of an underground storm water storage system as well as the design of a storm water filtration system to remove debris and sediments from onsite runoff before conveying it to the system of manmade lakes in the area. Cardno carried out extensive coordination with the design team, the City of Chandler, the Ocotillo Design Review Board and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development.

Both Professional Services and construction are presently ongoing.

(1) TITLE AND LOCATION (*City and State*)

SAN TAN 30 – PINAL COUNTY, ARIZONA

(2) YEAR COMPLETED

Professional Services 2014	Construction (if applicable)
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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

4.

Role: CADD TECHNICIAN
Client: CSWR131 Mortensen, LLC Project Budget: \$90,000

San Tan 30 is an approximately 30-acre single family residential subdivision located near the southeast corner of Ocotillo Road and Coyote Road in Pinal County, Arizona. Cardno performed the civil engineering and survey services for the project including the ALTA and Topographic Survey, design and preparation of the Tentative Plat for the project. Cardno is under contract to design and prepare civil improvement plans as well as a final plat for the development. Cardno's work in this project will involve extensive coordination with the County as well as the different utility companies that serve the area.

Both Professional services and Construction are on-going.

(1) TITLE AND LOCATION (*City and State*)

PRADERA – GOODYEAR, ARIZONA

(2) YEAR COMPLETED

Professional Services 2014	Construction (if applicable)
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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

5.

Role: CIVIL ENGINEER / PROJECT MANAGER
Client: CSWR131 Mortensen, LLC Project Budget: \$90,000

Pradera is an approximately 160-acre property located at the northwest corner of Citrus Road and Lower Buckeye Road in Goodyear, Arizona. Cardno previously designed the development as a progressive residential community, offering a variety of lot sizes and home types and also features multiple recreation trails and parks. The development was approved in the past but was never built. Cardno's recent work on this project has involved coordination with the City of Goodyear and other authorities having jurisdiction to update the old plans and obtain reapproval of the civil improvement plans. Extensive coordination has been carried out with the plan review agencies to ensure the project got credit for the previously approved plans.

Both Professional services and Construction are on-going.



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME JEFFERY BROWN	b. ROLE IN THIS CONTRACT CADD TECHNICIAN	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 4
d. LOCATION (City and State) <i>CARDNO, SCOTTSDALE, ARIZONA</i>			
e. EDUCATION (DEGREE AND SPECIALIZATION) BSD/ HOUSING & URBAN DEVELOPMENT		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<i>SAN VICTOR - SCOTTSDALE, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Standard Pacific Homes Project Budget: \$85,000 San Victor is an approximately 6-acre multifamily residential development located at the southeast corner of 90th Street and San Victor Drive in the City of Scottsdale, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Cardno carried out extensive coordination with the design team as well as the City of Scottsdale and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development. Both Professional Services and construction are presently ongoing.		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	<i>QUERENCIA – PEORIA, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Meritage Homes Project Budget: \$140,000 Querencia is an approximately 47-acre single family residential subdivision located about 0.25 miles southeast of the intersection of Jomax Road and Lake Pleasant Parkway in the City of Peoria, Arizona. Cardno performed the civil engineering and survey services for the project including and aerial survey of the project site as well as design and preparation of civil improvement plans for the project. A 404 wash study was conducted on an existing wash that cut across one edge of the property followed by the filing for a 404 permit with the US Army Corps of Engineers. Work on this project involved extensive coordination with the City of Peoria due to the challenges posed by the hilly terrain on the site. There was also a considerable amount of effort put into coordination with private utility companies owing to the presence of transmission mains across the property. Both Professional Services and construction are presently ongoing.		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	<i>SIENA AT OCOTILLA – CHANDLER, ARIZONA</i>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role: CADD TECHNICIAN Client: Standard Pacific Homes Project Budget: \$80,000 Siena at Ocotillo is an approximately 8-acre multifamily residential development located at the southeast corner of Dobson Road and		<input checked="" type="checkbox"/> Check if project performed with current firm



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Market Place in the City of Chandler, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Civil engineering work also included the design of an underground storm water storage system as well as the design of a storm water filtration system to remove debris and sediments from onsite runoff before conveying it to the system of manmade lakes in the area. Cardno carried out extensive coordination with the design team, the City of Chandler, the Ocotillo Design Review Board and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development.

Both Professional Services and construction are presently ongoing.

(1) TITLE AND LOCATION *(City and State)*

SAN TAN 30 – PINAL COUNTY, ARIZONA

(2) YEAR COMPLETED

Professional Services
2014

Construction (if applicable)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

Role: CADD TECHNICIAN
Client: CSWR131 Mortensen, LLC Project Budget: \$90,000

4.

San Tan 30 is an approximately 30-acre single family residential subdivision located near the southeast corner of Ocotillo Road and Coyote Road in Pinal County, Arizona. Cardno performed the civil engineering and survey services for the project including the ALTA and Topographic Survey, design and preparation of the Tentative Plat for the project. Cardno is under contract to design and prepare civil improvement plans as well as a final plat for the development. Cardno's work in this project will involve extensive coordination with the County as well as the different utility companies that serve the area.

Both Professional services and Construction are on-going.

(1) TITLE AND LOCATION *(City and State)*

PRADERA – GOODYEAR, ARIZONA

(2) YEAR COMPLETED

Professional Services
2014

Construction (if applicable)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

Role: CIVIL ENGINEER / PROJECT MANAGER
Client: CSWR131 Mortensen, LLC Project Budget: \$90,000

5.

Pradera is an approximately 160-acre property located at the northwest corner of Citrus Road and Lower Buckeye Road in Goodyear, Arizona. Cardno previously designed the development as a progressive residential community, offering a variety of lot sizes and home types and also features multiple recreation trails and parks. The development was approved in the past but was never built. Cardno's recent work on this project has involved coordination with the City of Goodyear and other authorities having jurisdiction to update the old plans and obtain reapproval of the civil improvement plans. Extensive coordination has been carried out with the plan review agencies to ensure the project got credit for the previously approved plans.

Both Professional services and Construction are on-going.



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State) Prescott Country Club ADMS– Prescott, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Yavapai county Flood Control District	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$450,000	e. TOTAL COST OF PROJECT \$450,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Prescott Country Club is a historic planned 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 Cardno to prepare the Prescott Country Club Area Drainage Master Study as a comprehensive analysis of the drainage problems throughout this study area. The watershed is comprised of rolling hills that are tributary to Clipper Wash, running through the center of the study area. The project consisted of aerial mapping of several sections, detailed topography in specific site areas, 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. Cardno 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 problems. The public input was compiled with information from the other stakeholders such as the golf course. This information was used to identify potential flooding areas and propose mitigation alternatives. These alternatives have been evaluated and a preferred alternative selected for each problematic drainage area. The project culminates in the preparation of 15% design concept plans for each selected alternative. The proposed mitigation measures are being coordinated with the property owners and stake holders such as the Prescott Country Club Golf Course to get community buy in to the projects. In addition, the 100-year and 500-year floodplains for Clipper Wash were delineated and documented in a Technical Data Notebook for submittal to FEMA.

This project demonstrates the successful delivery of professional services and disciplines nominated in this contract.

Start Date: 12/01/10 End Date: 12/30/12



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(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Rio Salado Commerce Park	2012	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Behinger Harvard	\$365,000	\$365,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Rio Salado Commerce Park is a light industrial warehouse subdivision that is located on an approximate 65-acre parcel of land adjacent to the Salt River. Cardno provided civil engineering and survey services for this project from the preliminary site plan to the final plat. Services included the preparation of the construction documents for streets, water, sewer, a sanitary pump station and force main, storm drain and related survey services. The site had a FEMA flood zone on it that Cardno assisted in acquiring a Letter of Map Revision (LOMR) from FEMA. Cardno also provided Landscape Architecture services including planting and irrigation design.

This project demonstrates the successful delivery of professional services and disciplines nominated in this contract.

Start Date: 01/30/08 End Date: 06/30/12



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
San Victor – Scottsdale, Arizona	2014	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Standard Pacific Homes	\$85,000	\$85,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

San Victor is an approximately 6-acre multifamily residential development located at the southeast corner of 90th Street and San Victor Drive in the City of Scottsdale, Arizona. Cardno performed the civil engineering and survey services for the project including the design and preparation of civil improvement plans as well as the preparation of a condominium plat of the development. Cardno carried out extensive coordination with the design team as well as the City of Scottsdale and private utility companies to alleviate conflicts in the design of proposed improvements within and around the tightly spaced development.

This project demonstrates the successful delivery of professional services and disciplines nominated in this contract.

Start Date: 01/30/13 End Date: On-going



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> b.	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2014
Avian Meadows – Chandler, Arizona		

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Communities Southwest	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,200,000	e. TOTAL COST OF PROJECT \$1,150,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Avian Meadows is an approximately 65 acre, 200 lot subdivision, located near Chandler, Arizona. The community has been designed around a large open space system totaling more than 15 acres. It is directly across the street from the City of Chandler's Environmental Education Center which serves as a gateway to Veteran's Oasis Park. This park features a lush wetland and arid habitat which is inhabited by a variety of wildlife. Cardno provided landscape architecture, survey (ALTA), master planning and civil engineering. Cardno provided the necessary documents for Rezoning/Planned Area Development, preliminary plat, construction documents and final plat. Plans were also done for the offsite arterial roadways.

This project demonstrates the successful delivery of professional services and disciplines nominated in this contract.

Start Date: 01/12/09 End Date: 2014



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
The Meadows – Peoria, Arizona	2014	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Community A Lago, LLC	\$1,100,000	\$1,092,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Meadows is a part of the Camino á Lago Master Planned community consisting of approximately 1,350 acres, located in Peoria, AZ. Community Southwest is currently developing The Meadows, which is comprised of ten development units totaling 694 acres. Cardno is providing multidisciplinary services including concept master plans, master drainage design, civil engineering design, subdivision design, landscape architecture design, and theming. The Meadows is a master-planned mixed use development consisting of single-family detached residential homes, a community center, an elementary school, and a city park. The community has been designed to provide a broad range of residential zoning districts. The Meadows is part of the Camino A Lago Master Planned Community that was prepared by the Arizona State Land Department in the City of Peoria. The Cardno team provided multidisciplinary services including civil engineering, drainage, surveying, landscape architecture, and planning from the Planned Community Development amendment and rezoning stage to the preliminary plat stage to the final plat. Cardno is working with the State Land Department and the City for the preparation of a State Plat for designation of the arterial and collector road locations and alignments.

This project demonstrates the successful delivery of professional services and disciplines nominated in this contract.

Start Date: 04/15/07 End Date: On-going



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6. ADDITIONAL INFORMATION

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

Cardno is a professional infrastructure and environmental services company with over 200 offices in the United States and a local team of 75 employees in four Arizona offices. The local Cardno professionals offer expertise in Civil Engineering, Water Resources, Landscape Architecture, Land Use Planning, GIS Services, Land Survey, Subsurface Utility Engineering, Environmental and Materials Testing for the public and private sectors. Our local teams are augmented by other Cardno Divisions who specialize in Water and Wastewater Treatment systems and Pumping Stations.

Cardno provides our clients with access to over 5000 professionals focused on delivering customized engineering and consulting solutions to plan, design, manage and deliver sustainable projects and community programs. Cardno is therefore able to provide the State of Arizona with the depth and range of services needed to complete any assignment that may be offered within the following categories and services:

GENERAL CIVIL ENGINEERING

• **Civil Engineering**

Cardno’s Civil Engineering team of Engineers, Designers and CAD staff are fully experienced in the design of major/minor streets and roadways including paving geometrics, pavement drainage, signage and striping, topographic and corridor surveys, pavement management, adjacent site grading and drainage, utility coordination and permitting, earthwork analysis, Arizona Pollutant Discharge Elimination System/National Pollutant Discharge Elimination System (AZPDES/NPDES) permitting, value engineering, construction administration, construction cost estimating, and general permit coordination. The Cardno team has provided these services on numerous projects to public and private clients for over 20 years in the Phoenix area.

The Cardno engineering team also includes Water Resource specialists with extensive experience performing on-call services for cities and counties in Arizona. This experience has been utilized in numerous flood mitigation projects culminating in drainage studies, alternatives analysis, recommendations and construction documents. Our experience includes hydrologic and hydraulic analysis, problematic drainage area assessments, drainage facility design, CLOMR/LOMR requests and environmental permitting (Section 404).

• **Surveying**

As a complete Land Survey practice, Cardno offers experience in all areas of land surveying, construction staking and design surveys for civil engineering design. The Cardno survey team’s experience spans more than 30 years in the Phoenix area, having performed survey services for most of the cities, towns and counties within the metropolitan area and across Arizona. Clients have also included the Arizona Department of Transportation (ADOT) and the Maricopa County Flood Control District. The survey services include but are not limited to topographic surveys, cadastral and boundary surveys, construction staking, utility as-built surveys, GPS and photogrammetric control, preparation of legal descriptions and exhibits and American Land Title Association Surveys/American Congress on Surveying and Mapping (ALTA/ACSM) Land Title Surveys for projects large and small.

LANDSCAPE ARCHITECTURE

Cardno has three licensed landscape architects in the Southwest, and a team of eight in the landscape architecture department. For more than 20 years the Cardno team has completed cost-effective and innovative design and construction administration services for both public and private clients across the globe. As a full service firm, Cardno’s Arizona office has the resources needed to provide the State of Arizona with landscape architectural services. Our staff is highly experienced in the production of landscape architectural plans from concept through public participation and construction documents including grading plans, irrigation plans, planting plans, maintenance recommendations, conceptual renderings, elevation drawings and construction details.

The Cardno team members are well acquainted with guiding plan sets through the governmental review process. We thoroughly review our project documents and specifications to ensure that each portion is tightly written and drawn in order for the implemented project to truly reflect the goals that were agreed upon. It is the desire of Cardno that the completed construction documents, as well as the implemented project exceed the expectations of the State of Arizona.



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

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	\$0.5 M (25%)
b. Percentage of Total Work Attributable to Non-Government Work:	\$1.5 M (75%)

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

Signature: *Shane Gesch*

Date: 12/22/14

Name: Shane Gesch

Title: Business Unit Manager