

Karl Obergh, PE (AZ PE #34008), will serve as Ardurra's Principal for this contract. He has served as Principal on previous PDOC contracts and has the authority necessary for the contractual obligations. **Frank E. Henderson, III, PE** (AZ PE #28940), will be the Contract Manager and has over 46 years of planning and designing experience on urban and rural construction transportation projects. He has been Ardurra's Contact Manager on the three previous PDOC contracts. Our qualified Task Managers (TM) proposed for this contract include Frank as well as **Gary Fromm, PE**, **Jeff Pisha, PE**, and **Jose Aguilar, PE**. This pool of TMs have extensive ADOT project delivery experience as well as developing and administering federally funded projects. Ardurra offers ADOT:

ARDURRA BENEFITS:

Ardurra is a nationally recognized firm with over 46 years of experience in transportation-related services.

Since 1978, our Phoenix-based staff has continuously delivered exceptional project management, design, and survey services on hundreds of projects.

Our 40+ year transportation collaboration history with ADOT staff spans every technical design, support, and construction group throughout the state.

Our team brings specific advantages, including:

- **TECHNICALLY DIVERSIFIED AND DOT-EXPERIENCED** staff with proven state, federal, and LPA-funded project delivery experience.
- **INVESTED IN A PARTNERSHIP APPROACH** to align internal and external stakeholder priorities.
- **THOROUGH INSTITUTIONAL KNOWLEDGE** of your processes, requirements, and ongoing changes, ensuring seamless compliance.
- **VIBRANT APPLICATION OF PERFORMANCE-BASED PRACTICAL DESIGN (PBDP) SOLUTIONS** to effectively balance risk, cost, and scope.
- **EMULATING PROJECT MANAGEMENT CONFIDENCE** to design teams and agencies that promote project success and support ADOT's transportation goals.
- **COMMITMENT TO DESIGN INNOVATION** to address each project's unique technical challenges.



PROVEN TASK MANAGERS. Our proposed TMs collectively bring over 110 years of transportation and management experience. This wealth of experience will provide direction and guidance to the team to address any scope of work and a wide range of issues that may be encountered on this contract.

SIGNIFICANT DEPARTMENT OF TRANSPORTATION (DOT) DESIGN EXPERIENCE. We have assembled a team, including our subconsultants, with extensive design experience and knowledge in delivering projects following state and federal processes and procedures. In conjunction with our assigned TM, our Discipline Leads will advocate for innovative solutions from the team to meet the project's goals, schedule, and budget. We bring our previous DOT and Local Public Agency (LPA) project experience to implement cost-effective solutions to the transportation needs throughout the state.

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ESTABLISHED ADOT AND LPA WORKING RELATIONSHIPS. These relationships and our technical knowledge will effectively streamline communication and coordination efforts.


COMMUNICATION. Keeping the team and ADOT management informed is critical in the project development process to achieving scope, schedule, and financial goals. Our goal is to identify concerns before they become issues and implement solutions before they impact the delivery process.

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As the Contract Manager, I understand the importance of this contract, and our key personnel are committed to meeting or exceeding ADOT's expectations. I am ultimately responsible for all contractual matters and securing the required team resources. Ardurra is not a certified DBE. If you have any questions or require additional information about our proposal, please contact me at 602.263.1177 or fhenderson@ardurra.com.

Respectfully,
Ardurra Group, Inc.

Karl Obergh, PE
Project Principal


Frank E. Henderson III, PE
Contract Manager

Engineering Consultants Section SOQ Proposal Certifications Form

Contract #: 2025-011

Consultant Name: Ardurra Group, Inc.

Please read the fifteen (15) statements below. The statements are to ensure Consultants are aware and in agreement with Federal, State and ECS guidelines related to the award of this contract. Consultants shall submit the specific Certification form attached to each RFQ advertised, as revisions to the form may occur from time to time. Failure to sign and submit the certification form specified in the RFQ with the SOQ proposal will result in the SOQ proposal being rejected.

Submission of the SOQ by the Consultant certifies that to the best of its knowledge:

1.	The Consultant and its subconsultants have not engaged in collusion with respect to the contract under consideration.
2.	The Consultant, its principals and subconsultants have not been suspended or debarred from doing business with any government entity.
3.	The Consultant shall have the proper Arizona license(s) and registration(s) for services to be performed under this contract. Furthermore, the Consultant shall ensure that all subconsultants have the proper Arizona license(s) and registration(s) for services to be performed under this contract.
4.	The Consultant's signature on any SOQ proposal, negotiation document or contract constitutes that a responsible officer of the Consultant has read and understands its contents and is empowered any duly authorized on behalf of the Consultant to do so.
5.	The Consultant's Project Team members are employed by the Consultant on the date of submittal.
6.	All information and statements written in the proposal are true and accurate and that ADOT reserves the right to investigate, as deemed appropriate, to verify information contained in proposals.
7.	Key members of the Project Team, including subconsultants, are currently licensed to provide the required services as requested in the RFQ package.
8.	All members of the Project Team who are former ADOT employees did not have or provide information that gives the Consultant a competitive advantage; and either (1) concluded their employment with ADOT at least 12 months before the date of the SOQ or (2) have not made any material decisions about this project while employed by ADOT.
9.	Work, equating at least 51% of the contract value, shall be completed by the Consultant unless otherwise specified in the SOQ or contract.
10.	No Federally appropriated funds have been paid or shall be paid, by or on behalf of the Consultant for the purpose of lobbying.
11.	The Consultant understands that it is required to have a compliant accounting system, in accordance with Generally Accepted Accounting Principles (GAAP), Federal Acquisition Regulation (FAR) of Title 48, Code of Federal Regulations (CFR)-Part 31, applicable Cost Accounting Standards (CAS), and ADOT Advance Agreement Guideline.
12.	If project is funded with Federal Aid funds, the Consultant affirmatively ensures that in any subcontract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations.
13.	The Consultant shall utilize all Project Team members, subconsultants and DBE firms, if applicable, submitted in the SOQ, and shall not add other Project Team members or subconsultants, unless the Consultant has received prior written approval from ADOT.
14.	The Consultant shall either meet its DBE goal commitment and any other DBE commitments or make Good Faith Efforts to meet the DBE goal commitments as stated in its SOQ proposal or Cost Proposal and shall report on a timely basis its DBE utilization as detailed in the contract.
15.	If selected, the Consultant is committed to satisfactorily carry out the Consultant's commitments as detailed in the contract and its SOQ proposal.

I hereby certify that I have read and agree to adhere to the fifteen (15) statements above and/or that the statements are true to the best of my knowledge as a condition of award of this contract.

Print Name: Karl Obergh, PE

Title: Director

Signature: 

Date: April 1, 2025

Revised 2/11/2022

ARIZONA DEPARTMENT OF TRANSPORTATION
ENGINEERING CONSULTANTS SECTION
PARTICIPATION IN BOYCOTT OF ISRAEL - CONSULTANT CERTIFICATION FORM
ADOT ECS Contract No.: 2025-011

This Certification is required in response to legislation 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, this form must be completed and returned with any response to a solicitation (SOQ), Contract Cost Proposals, and Contract Time Extensions. The Consultant understands that this response will become public record and may be subject to public inspection.

Please note that if **any** of the following apply to this Solicitation, Contract, or Contractor, then the Offeror shall select the “Exempt Solicitation, Contract, or Contractor” option below:

- The Solicitation or Contract has an estimated value of less than \$100,000;
- Contractor is a sole proprietorship;
- Contractor has fewer than ten (10) employees; OR
- Contractor is a non-profit organization.

Pursuant to A.R.S. §35-393.01, public entities are prohibited from entering into contracts “unless the contract includes a written certification that the company is not currently engaged in, and agrees for the duration of the contract to not engage in, a boycott of goods or services from Israel.”


Under A.R.S. §35-393:

1. "Boycott" means engaging in a refusal to deal, terminating business activities or performing other actions that are intended to limit commercial relations with entities doing business in Israel or in territories controlled by Israel, if those actions are taken either:
 - (a) Based in part on the fact that the entity does business in Israel or in territories controlled by Israel.
 - (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 an organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate, that engages in for-profit activity and that has ten or more full-time employees.
- ...
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.

The certification below does not include boycotts prohibited by 50 United States Code Section 4842 or a regulation issued pursuant to that section. See A.R.S. §35-393.03.

In compliance with A.R.S. §§35-393 *et seq.*, all offerors must select one of the following:

- ☒ The Company submitting this Offer 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 *et seq.* I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
- ☐ The Company submitting this Offer does participate in a boycott of Israel as described in A.R.S. §§35-393 *et seq.*
- ☐ **Exempt Solicitation, Contract, or Contractor.**
Indicate which of the following statements applies to this Contract:
- ☐ Solicitation or Contract has an estimated value of less than \$100,000;
- ☐ Contractor is a sole proprietorship;
- ☐ Contractor has fewer than ten (10) employees; and/or
- ☐ Contractor is a non-profit organization.

Ardurra Group, Inc.				
Company Name			Signature of Person Authorized to Sign	
1001 N. Central Avenue, Suite 900			Karl Obergh, PE	
Address			Printed Name	
Phoenix	AZ	85004	Director	April 1, 2025
City	State	Zip	Title	Date

Participation in Boycott of Israel – Consultant Certification
Form Revised - 4/28/2020


ADOT Project Development On-Call - Consultant Services Matrix
ADOT Contract No.: 2025-011
Prime Consultant Name: Ardurra Group, Inc.

Please indicate in the Matrix below whether the prime Consultant and/or Subconsultant in-house resources will provide services for the following Key Technical Disciplines.

Key Technical Discipline	Technical Sub Areas	Prime Consultant	Subconsultant(s) (include firm name)	ADOT Technical On-Call**
Roadway Design		Ardurra Group, Inc.		N/A
	Fringe-Urban Highway Design	Ardurra Group, Inc.		N/A
	Rural Highway Design	Ardurra Group, Inc.		N/A
	Controlled Access Urban Highway.	Ardurra Group, Inc.		N/A
	Local Roads	Ardurra Group, Inc.		N/A
	Roundabout			N/A
	Intersection Improvements	Ardurra Group, Inc.		N/A
	ADA/Sidewalk/MUP	Ardurra Group, Inc.		N/A
	Climbing Lanes	Ardurra Group, Inc.		N/A
	Shoulder Widening	Ardurra Group, Inc.		N/A
	Interchange Improvements	Ardurra Group, Inc.		N/A
Survey & Mapping		Ardurra Group, Inc.		N/A
	Aerial Survey, Mapping		Cooper Aerial	N/A
	Field Survey	Ardurra Group, Inc.		N/A
	Bathymetric Survey			N/A
Landscape and Irrigation Design & Erosion Control		Ardurra Group, Inc.	Logan Simpson, Inc.	N/A
	Erosion Control	Ardurra Group, Inc.	Logan Simpson, Inc.	N/A
	Irrigation Design		Logan Simpson, Inc.	N/A
	Hardscape Aesthetics		Logan Simpson, Inc.	N/A
	Landscape Design		Logan Simpson, Inc.	N/A
	SWPPP	Ardurra Group, Inc.	Logan Simpson, Inc.	N/A
	Seeding Mix Design		Logan Simpson, Inc.	N/A
Materials Design			Atek Engineering & Ethos	N/A
	Asphaltic Pavement		Atek Engineering & Ethos	N/A
	Concrete Pavement		Atek Engineering & Ethos	N/A
	Pavement Life Extension		Atek Engineering & Ethos	N/A
	Rockfall Mitigation		Atek Engineering & Ethos	N/A
	Life Extension Projects		Atek Engineering & Ethos	N/A
				N/A
	PBPD	Ardurra Group, Inc.		N/A
Bridge/Structural Design		Ardurra Group, Inc.	Ethos	N/A
	Bridge	Ardurra Group, Inc.	Ethos	N/A
	Deck Overlay	Ardurra Group, Inc.	Ethos	N/A
	Deck Replacement	Ardurra Group, Inc.	Ethos	N/A

	Screen Wall	Ardurra Group, Inc.	Ethos	N/A
	ABC	Ardurra Group, Inc.	Ethos	N/A
	Retaining Wall	Ardurra Group, Inc.	Ethos	N/A
	Noise Wall	Ardurra Group, Inc.	Ethos	N/A
	Signal/Lighting/Sign Foundations	Ardurra Group, Inc.	Ethos	N/A
	Sign/Pole Design	Ardurra Group, Inc.	Ethos	N/A
	Steel Structures	Ardurra Group, Inc.	Ethos	N/A
Geotechnical Studies/Design			Atek Engineering & Ethos	N/A
				N/A
				N/A
	FWD		Atek Engineering & Ethos	N/A
	Pavement Coring		Atek Engineering & Ethos	N/A
	Drilling/Foundation Design		Atek Engineering & Ethos	N/A
	Slope Stability /Soil Nail		Atek Engineering & Ethos	N/A
	Rockfall Mitigation, Rock Scaling		Atek Engineering & Ethos	N/A
	Drilled Shaft		Atek Engineering & Ethos	N/A
	MSE Walls		Atek Engineering & Ethos	N/A
Drainage Design		Ardurra Group, Inc.		N/A
	Pipe Culvert/Box Culvert	Ardurra Group, Inc.		N/A
	Drainage Retrofit	Ardurra Group, Inc.		N/A
	Hydraulic/Hydrologic Drainage Analysis - HEC RAS, HEC1	Ardurra Group, Inc.		N/A
	2D Hydraulic Modeling	Ardurra Group, Inc.		N/A
	Drainage Channel and Structures	Ardurra Group, Inc.		N/A
	Bridge Hydraulics	Ardurra Group, Inc.		N/A
	LOMR / CLOMR	Ardurra Group, Inc.		N/A
	Scour Analysis/Retrofit	Ardurra Group, Inc.		N/A
Traffic/Safety Engineering Design		Ardurra Group, Inc.	Y2K & SWTE	N/A
	Temporary Traffic Control	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Signing/Pavement Marking/Striping	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Traffic Signal Design	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Street Lighting Design	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Intersection Lighting Design	Ardurra Group, Inc.	Y2K & SWTE	N/A
	High Mast Lighting	Ardurra Group, Inc.	Y2K & SWTE	N/A
	RSA	Ardurra Group, Inc.	Y2K & SWTE	N/A
	VISSIM	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Intersection Control Evaluation (ICE)	Ardurra Group, Inc.	Y2K & SWTE	N/A



	Dynamic Messaging Signs (DMS)	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Smart Work Zones	Ardurra Group, Inc.	Y2K & SWTE	N/A
Intelligent Transportation Systems		Ardurra Group, Inc.	Y2K & SWTE	N/A
	Broadband, Fiber Optic	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Speed Feedback	Ardurra Group, Inc.	Y2K & SWTE	N/A
	Wrong Way Detection	Ardurra Group, Inc.	Y2K & SWTE	N/A
	CCTV	Ardurra Group, Inc.	Y2K & SWTE	N/A
	DMS	Ardurra Group, Inc.	Y2K & SWTE	N/A
Cost Estimations/Specifications		Ardurra Group, Inc.		N/A
	Unit Cost Verification	Ardurra Group, Inc.		N/A
	Bid Justification	Ardurra Group, Inc.		N/A
	Special Provisions	Ardurra Group, Inc.		N/A
				N/A
				N/A
Environmental Services**				
	Noise Analysis		Newton Environmental	
	404 Permit / 408 Permit		Del Sol Group & Logan Simpson	
	Cultural Surveys		SWCA & Logan Simpson, Inc.	
	Air Quality Analysis			
	Biological Evaluation		Logan Simpson, Inc. & Del Sol Group	
	Section 4(f) analysis		Logan Simpson, Inc.	
	Hazardous Materials Analysis		Western Technologies, Inc.	
	Public Involvement	Ardurra Group, Inc.		
	Other NEPA Documentation		Logan Simpson, Inc. & Del Sol Group	
Right-Of-Way Mapping, & Plans**		Ardurra Group, Inc.		
	Legal Description	Ardurra Group, Inc.		
	Right of Way Plans	Ardurra Group, Inc.		
	TCE	Ardurra Group, Inc.		
	Right of Way Cost Determination		Tierra Right-of-Way	
Utility Locating - SUE**			T2 UES, Inc.	
Facilities/Maintenance Design (e.g. Rest Area, Port of Entry, Airport etc.)			Motley Design Group	N/A
	Vertical Design		Motley Design Group	N/A
	MEP		Motley Design Group	N/A
	ADEQ Approvals		Motley Design Group	N/A
List any Other expertise that pertains to the	Independent Cost Estimating (ICE)	Ardurra Group, Inc.		N/A



project	3D Modeling Visual Simulations Public Relations Cost Risk Analysis	Ardurra Group, Inc. Ardurra Group, Inc. Ardurra Group, Inc.		
	Value Engineering	Ardurra Group, Inc.		
	Forest Service Coordination	Ardurra Group, Inc.		
	Native American Coordination	Ardurra Group, Inc.		
	Architectural Historian		SWCA	

** Consultants may, but are not required to, include the prime Consultant's in-house resources or subconsultants to provide services associated with ROW Mapping & Plans, Utility Locating (SUE) and Environmental Services as part of their team. Prime Consultants must identify in the Consultant Services Matrix if they are proposing to include their firm's resources or Subconsultants (or both) to perform these services or if they elect to utilize consultants contracted through existing ADOT ROW, or EP on-call contracts to perform these services. Evaluation scores and comments will not be affected by the prime Consultant's decision to include or exclude these services as part of their SOQ/proposal or future Task Order Assignments.

- *Prime Consultant's electing to perform these services with their own in-house resources or Subconsultants must demonstrate their technical qualifications in their SOQ proposal (following the SOQ Technical Evaluation Criteria) and perform these services in conformance with the Scope of Work and minimum state and federal standards/regulations.*
- *Consultants electing to use available ADOT EP or ROW on-call contracts will not be included as part of the consultant selection process associated with these on-call contracts, but will still be responsible for managing and delivering the project per the agreed upon scope, schedule and budget for the associated task order they were assigned.*

INTRODUCTION

Ardurra is a nationally recognized firm with over 46 years of transportation-related services. Our Arizona staff of 150+ professional engineers, project managers, and designers has continuously delivered exceptional management, design, and survey services on hundreds of local, state, and federal-funded projects since 1978. Our diverse collaboration with ADOT staff spans every technical pre-design, design, and construction element needed to execute any task ranging from a study through complex urban freeways. Ardurra's decades of ADOT experience is derived from the quality execution task assignments from ADOT On-Calls (Statewide, Roadway, Right-of-Way (ROW), Traffic Safety Sections (TSS), District Minor, and Project Development On-Call (PDOC) contracts. Our completion of **over 30 assignments on ADOT PDOC 2018-006 and 2022-006 contracts combined with our 30+ LPA projects in the last 10 years** confirms our ability to serve your professional team. Team leaders understand your expectations for performance, communication, and schedule compliance. We are committed to meeting ADOT's institutional metrics of 20/30/30/20 project delivery and project initiation within 50 Days (TOAST). Equally important, our managers understand the critical need to meet stakeholder (Ardurra, ADOT, and LPA) agreed-upon schedules, complete clearances, communicate, resolve action items, comply with federal requirements, and integrate ADOT's standards.

Ardurra successfully delivers ADOT assignments by:

- > **CONDUCTING** effective field review
- > **LEADING** effective comment resolution meetings
- > **RESOLVING** action items
- > **COMMUNICATING** with the District or LPAs
- > **PROVIDING** comprehensive submittals

1. Understanding & Approach

1A. GENERAL CONTRACT & DESIGN PROCESS

ADOT initiated the PDOC to implement a single program to efficiently and effectively deliver Task Order (TO) design services for ADOT projects and federally funded LPA projects throughout Arizona. Similar to two previous PDOC contracts, all firms selected for this on-call will be allowed to submit qualifications for each TO to meet 23 CFR Part 172. TOs cover a broad spectrum of transportation-related services, including studies, scoping, final design, and construction-related services. Typical consultant activities involve agency coordination, scheduling, cost estimating, environmental clearance documents, project management, ROW delineation, utility coordination, and post-design assistance.

Once a TO is assigned, Ardurra's Task Manager (TM) will schedule a scoping meeting with appropriate ADOT and LPA staff to confirm the scope, schedule, and budget. After contract negotiations are complete, Ardurra TM will coordinate with ADOT PM to set up stakeholder contact information and milestone schedule in ADOT's WorkFront software. Predesign scope typically requires the development of scoping documents that accurately define major construction features, schedules, and construction costs to program the proposed improvements. Our previous PDOC design experience has shown us that a comprehensive Final Scoping Document (FSD), which accurately assesses ROW requirements, utility impacts, environmental clearance footprint, and construction costs, is critical for stakeholder consensus and prevents scope creep. The final design executes the improvements identified in the FSD by developing construction documents (plans, specifications, and an Opinion of Probable Cost (OPC). Ardurra's quality control review process (described in the Non Technical Evaluation Section No. 2) before each submittal confirms compliance with ADOT's design standards, facilitates an expedient comment resolution meeting environment that develops solutions and continues stakeholder consensus. Ardurra's typical sequence of major activities and milestone deliveries for each TO is provided in **Figure 1**.

ARDURRA'S PDOC DIFFERENTIATORS

PDOC TO projects are either ADOT or non-certified LPA projects from the LPA's Capital Improvement Program (CIP). Our standard approach to meet the budget and schedule constraints is:

- **Develop efficient processes** specific to the TO scope that will meet schedule and budget constraints.
- **Engage stakeholders** to develop the right-sized project approach.
- **Sequence design activities** to match the critical path clearances prior to Stage IV submittal.

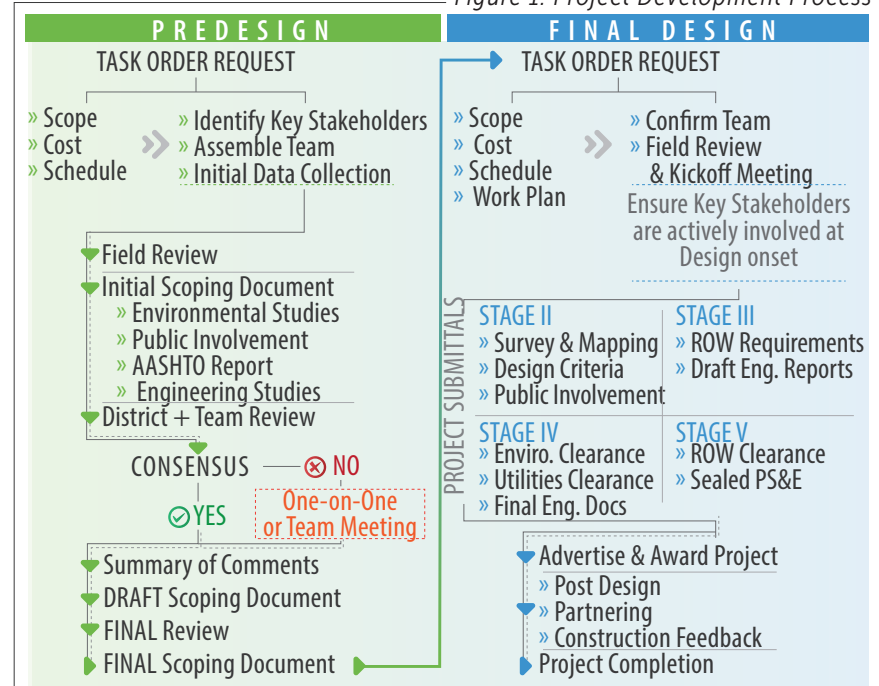
» Technical Elements | Knowledge of Key Disciplines and Task Order Delivery

Our Teams knowledge of the ADOT process and goals as well as our past experience working with the various ADOT Groups is beneficial in delivering assigned on-call tasks on time and within budget. Coordinating the technical project aspects through the various ADOT groups is our team's responsibility in partnership with ADOT's PM. Our historical execution of ADOT PDOC assignments provides the institutional foundation to navigate through the following ADOT technical groups successfully:

- Project Management Group (PMG)
- Environmental Planning (EP)
- Traffic Design & Engineering
- Regional Traffic Engineering
- Traffic Safety
- Transportation Systems Management and Operations (TSMO)
- Bridge & Geotechnical Group
- ADOT District Construction and Maintenance
- Roadway Design
- Roadway Predesign and Pavement Design
- Drainage Design
- Compliance Reviews
- Roadside Development
- Utility and Railroad (U&RR)
- Contracts & Specifications (C&S)
- ROW
- LPA

Ardurra utilizes
workfront
software to manage deliverables.

Figure 1: Project Development Process



Ardurra's ownership of each task order begins with preparing a Statement of Interest (SOI). As we prepare the SOI, we research and understand the project's scope of work, financial limits, risks, and schedule constraints. Each SOI will: (1) Establish the anticipated scope of work items; (2) Identify specific TO challenges and risks; (3) Develop solution alternatives; (4) Identify key discipline leaders; and (5) outline scope, schedule, and budget.

The following technical elements may be required during the predesign and final design phases of a project, depending on the scope and type of project:

TRAFFIC STUDIES AND REPORTS	The discipline team lead has extensive traffic safety studies and road safety assessment (RSA) engineering experience. Our team's project approach is: <ul style="list-style-type: none"> Reduce traffic incident frequency and severity through data-driven analysis. Encourage and solicit LPA stakeholder input. Select the most effective countermeasure. 	BRIDGES / STRUCTURES	Because bridge rehabilitation scope can vary dramatically, our contract manager will: <ul style="list-style-type: none"> Confirm rehabilitation type/scope. Identify structural improvement elements (retaining wall types, deck details). Investigate superstructure replacement. Verify protect in place substructure.
ROADWAY DESIGN	Team leaders have exceptional design (alignment, sight distance, earthwork optimization, superelevation) experience and will: <ul style="list-style-type: none"> Confirm design criteria and communicate to the final design team. Ensure ADOT's Roadway Design Guidelines and AASHTO design criteria are implemented. Coordinate and oversee calculations. Implement innovative ideas, balance earthwork, and minimize throwaways to reduce cost. 	TRAFFIC ENGINEERING & ITS	Our PDOC team is configured to meet any traffic or ITS scope of work for: <ul style="list-style-type: none"> Maintenance of Traffic (MOT): Although most PDOC assignments do not require complex construction phasing or traffic control plans, our team is staffed to: <ul style="list-style-type: none"> Strategically integrate existing contractor partnerships for construction sequencing. Identify and mitigate traffic impact risks. Incorporate LPA and ADOT standards and details. Signing & Pavement Marking: Throughout our years of ADOT experience, we: <ul style="list-style-type: none"> Developed a thorough understanding of the department's standards. Created direct link between Excel spreadsheets to sign summary sheets. Prepared sign formats using SignCAD software. Traffic Signals: Ardurra's design process: <ul style="list-style-type: none"> Completes field review to identify existing utilities, power source and communication. Identifies existing conduits or poles that can remain in place. Confirms facility upgrades needed for ADA compliance. Lighting: We utilize the lighting software AGI32® to: <ul style="list-style-type: none"> Complete voltage drop calculations to reduce conductor size. Confirm transformer and service connection spacing. Reduce costs by changing the lighting fixture type and/or orientation. ITS: Our engineers utilize state-of-the-art technology to: <ul style="list-style-type: none"> Establish device placement and power service design for fiber optics, detection systems, and wireless communication.
ROW	Our team leaders are actively engaged with our design team to identify and confirm ROW and/or easement requirements during the scoping phase because: <ul style="list-style-type: none"> Acquisitions are integrally interconnected with schedule-critical path. Property owner contact cannot be initiated until after environmental clearance for federally funded projects. Early identification of TCEs instead of ROW acquisitions may reduce schedule. Regularly scheduled meetings may be necessary if a substantial number of parcels. 		
SURVEY & MAPPING	During TO scope negotiations, team leader(s) will: <ul style="list-style-type: none"> Confirm data collection requirements appropriate to the scope of work. Recommend the most cost-effective approach—ground survey, aerial mapping, or both. Coordinate and acquire permits. 		
GEOTECH & PAVEMENT DESIGN	Ardurra team will: <ul style="list-style-type: none"> Identify pavement design and geotechnical requirements for slope stabilization, soil characteristics (shrink, swell, pH, resistivity, etc.), and pavement structural section. Coordinate with ADOT to confirm geotechnical investigation scope and reports. 		
DRAINAGE DESIGN	Through our extensive on-call experience, our drainage team will: <ul style="list-style-type: none"> Implement efficient and economical solutions that meet design criteria. Conduct field reviews with ADOT maintenance and LPA personnel. Identify retrofit options to reduce cost and require special details. 	LANDSCAPE	Landscape architects will: <ul style="list-style-type: none"> Develop a context-sensitive plant and aesthetic palette. Partner with ADOT to share the plan with the community. Use 3D models, photo simulations, illustrative graphics, and color renderings.
		FACILITIES / MAINTENANCE DESIGN	Our team's architectural team leader will perform: <ul style="list-style-type: none"> Assessments, programming, and design for rest areas, restrooms, ramadas, and maintenance facilities. Complete durable and sustainable facility designs.

» Institutional Elements

Ardurra's knowledge of ADOT's institutional elements is unmatched. We have been an integral partner in ADOT's journey to modify and implement standard work processes. We have a productive, trusting, and longstanding relationship with ADOT's multiple stakeholder groups. This trust enables us to overcome issues that could create schedule delays. Our understanding of recurring stakeholder concerns, "hot button" issues, and proactive communication creates consensus that moves projects forward. Each project delivery process includes major components that are part of project development but are outside the typical technical (engineering) development of construction documents and reports:

- **IGA/JPA:** ADOT executes a formal agreement with each LPA to establish responsibilities. Any change to funding or responsibilities requires an amendment that will take multiple weeks or months to finalize.
- **Compliance reviews:** ADOT trusts consultants to provide technically accurate and professional reports and designs. Therefore, ADOT submittal reviews efficiently verify compliance.
- **Project Review Board (PRB):** PRB approval is required for any change to scope, schedule, or budget. Additional construction funds require up to eight weeks to complete the PPAC or STB approval process.
- **Project Clearances:** Environmental, utilities, and ROW clearances are notorious for being federally funded project development schedule busters. Obtaining clearances is critical to timely construction bid advertisement. Schedule slippage may risk loss of federal funds or result in cost increases. In addition, environmental clearance is required before construction funds can be obligated with federal funds. Ardurra prioritizes clearance processes immediately after NTP because the clearances are most often the critical path for timely advertisement. Utility conflicts, ROW requirements, and establishing the construction footprint are completed during the scoping phase to ensure the clearance is initiated immediately after FSL approval. Specific activities with each clearance are:

ENVIRONMENTAL

- Fully vet technical assumptions prior to Stage II.
- Define the area of potential effect (APE) with the Stage II FSL document.
- Meet with ADOT EP to overview the footprint and establish a resource review schedule.
- Complete clearance for subsurface activities (geotechnical and utility potholes) during Stage II.
- Verify that APE includes advance warning signs and detours to avoid additional consultation.
- Identify potential staging areas with ADOT District staff.

UTILITY

- Identify all utilities and request prior rights.
- Conduct initial coordination meeting during Stage II.
- Complete designation during Stage II.
- Identify conflicts requiring relocation during Stage III.
- Obtain relocation agreements or IGAs as needed.
- Solicit utility conflict reviews after each Stage submittal.

ROW

- Complete ROW base map during Stage II.
- Incorporate constructability review in Stage II to verify construction limits.
- Consider utility relocation alignments.
- Coordinate potential costs with ADOT ROW.
- Include ROW requirements with environmental documentation.
- Facilitate railroad coordination and/or agreements with ADOT.


» Tasks Associated with Key Technical Disciplines


Figure 2 lists our understanding of technical disciplines and scope of work deliverables that are required for this PDOC contract.

Figure 2: Key Discipline Tasks

STUDIES & REPORTS	» Scoping Documents (SL, PA, DCR) » AASHTO Criteria Reports » Materials Design Reports » Traffic/Operational Analysis	» ADA Feasibility & Compliance » Geotechnical Investigation Reports » Drainage Reports » Bridge Selection Report
ROADWAY	» Roadway Design » Interchange & Intersection Design » Roundabout Analysis & Design » Driveway & Parking Improvements » Pedestrian Pathways » Pavement Design	» Cost Estimating » Specifications & Special Provisions » Multi-Use Paths » State Park Improvements » Constructability Reviews
DRAINAGE	» Hydrology/Hydraulic Analysis & Reports » On-site Drainage Design	» Off-site Drainage Design » Scour Analysis » Storm Drain Design
TRAFFIC	» Traffic Signal Plans » Traffic Control Plans » Signing & Pavement Marking Plans » FMS/ITS Designs	» Freeway & Roadway Lighting Design » Traffic Simulations » Hawk Signals
ENVIRONMENTAL	» Visual Impact Analysis » NEPA Clearances » Hazardous Materials » Biological Assessments	» Cultural Resources » Cultural & Biological Monitoring » Noise & Air Quality Evaluation » Architectural Historian
STRUCTURES	» Bridge Selection Reports » Bridge Design » Seismic Retrofit » Retaining Wall Design » MSE Wall Design	» Sound Wall Design » Scour Protection » Sign Foundations » Sign Structure Design » Signal & Lighting Pole Design
FACILITIES	» Rest Area Maintenance/Design	» Retrofitting
PROJECT SUPPORT SERVICES	» Utility Coordination, Plans & Clearances » Survey, Mapping & ROW Delineation/Clearance » GIS Services	» Geotechnical Investigations » Public Involvement Support » Railroad Coordination/Permits » Landscape & Erosion Control Design


» *Special Issues or Problems & Approach to Resolution* | The following critical issues are typically encountered during the project development phase:

Ardurra's TM will utilize WorkFront software to manage these special issues.		
TASK ORDER INITIATION	<p>Issue: Extended task order negotiations disrupt standard processes and impact the delivery schedule.</p> <p>Approach: Ardurra commits to complying with ADOT's 50-day TOAST process. Our task managers are obligated to the timeline and will schedule a stakeholder scoping meeting, provide timely scope and cost submittals, and quickly incorporate comments. The scoping kickoff meeting agenda will ensure the design scope is clearly established. A thorough discussion allows efficient task order processing submittals and eliminates scope changes after project NTP.</p>	<div><p>Our TMs will:</p><ul style="list-style-type: none">» IMPLEMENT ADOT's PDP» COMMUNICATE directly with ADOT PM» PROVIDE monthly progress reports» DOCUMENT all project correspondence» COORDINATE stakeholder consensus» MANAGE Consultant's technical communication</div>
DESIGN BUDGET COMPLIANCE	<p>Issue: Design budget changes exceeding the programmed amount create schedule delays in obtaining LPA approval and processing IGA amendments.</p> <p>Approach: Our task manager's extensive ADOT PDOC experience will thoroughly scope and proactively manage all design tasks to deliver the agreed-upon scope within the contract budget.</p>	
CONSTRUCTION BUDGET COMPLIANCE	<p>Issue: ADOT is responsible for administering LPA construction budgets, which were usually established without ADOT oversight and are often less than current construction unit costs.</p> <p>Approach: Our initial stakeholder scoping meeting will "lockdown" improvement elements and confirm if construction funds are adequate for the planned scope. Shortfalls will be addressed with LPA by reducing the construction scope. Cost estimates will be prepared with each submittal using our library of most current unit prices to incorporate industry trends and sequentially verify that programmed funds are adequate.</p>	
RISK MITIGATION	<p>Issue: Unidentified or unresolved risks compromise cost, scope, and schedule.</p> <p>Approach: Our task manager's specific focus during SOI preparation is to develop a thorough and prioritized risk register with mitigation measures. After NTP, our internal kickoff meeting agenda includes a detailed discussion of each risk to ensure transparency and solutions-oriented design implementation by all.</p>	
MAINTAINING SCOPE, SCHEDULE & BUDGET	<p>Issue: Inaccurate critical path relationships result in inaccurate milestone dates and risk bid advertisement in the programmed year.</p> <p>Approach: Ardurra managers have created a schedule template based on ADOT's 12-month delivery process. The template is tailored for unique project elements and construction seasons. The schedule is uploaded to Workfront after ADOT PM approval for ADOT group leader visibility.</p> <div><div><p>AVOIDING SCHEDULE SLIPPAGE</p><ul style="list-style-type: none">» IDENTIFY critical path items to mitigate & avoid risks» CONDUCT a partnering session to secure milestone commitments from stakeholders during the Kick-off Meeting» HOST internal design discipline-specific team meetings and over-the-shoulder reviews with utility companies» EVALUATE the schedule each month with a "look ahead" perspective» MAINTAIN, TRACK, AND UPDATE the action item list at each month's progress meeting</div><div><p>REVERSING SCHEDULE SLIPPAGE</p><ul style="list-style-type: none">» OPENLY CORRECT – not cover – root causes with the team and discuss rectification options» IDENTIFY interim milestones for "over the shoulder" reviews to reduce submittal review time» MOBILIZE additional staff and/or resources» ENGAGE technical experts to implement previous design experiences quickly» INCREASE work hours</div></div>	



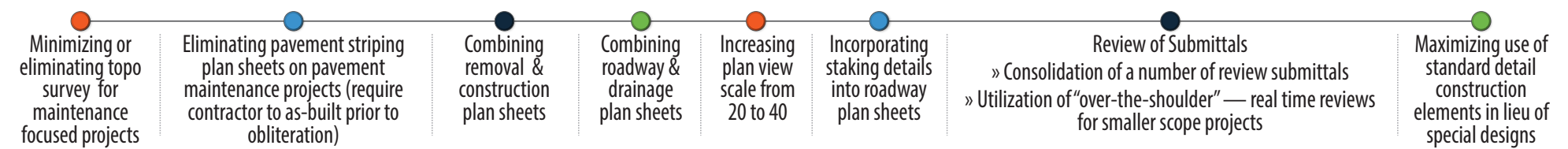
SUCCESS IN ACTION : SR 89 PDOC TASK

Ardurra coordinated three meetings with ADOT District staff to adjust and modify final design elements that identified a cost-effective curb solution to meet federal fund allocation and prevented the reduction of construction limits.



1B. APPROACH FOR ESTABLISHING A TASK ORDER SCOPE OF WORK (SOW)

Establishing a task order's SOW is a methodical process that begins with the project understanding gleaned during SOI preparation. In preparing the SOI response, our PM will have vetted the most expeditious design development approach. This exercise will consider the following standard efficiency measures:



PROJECT DELIVERY

Our relationships with local municipalities, counties, tribal agencies, and other state agencies allow us to efficiently facilitate local government projects, manage scope creep, and deliver on time. Our TO delivery approach begins with a field review concurrent with the kickoff meeting, which is key to confirming cost, schedule, scope, and stakeholder responsibilities. Before the kick-off meeting, our TM gathers all background materials and formulates an agenda with a risk register. The kick-off meeting deliverable is a stakeholder charter that confirms the project development process and includes a list of critical design tasks. Following the kick-off meeting, our design team will:

- **Produce** scoping documents that define scope, include stakeholder input, identify funding source(s), and establish a realistic schedule.
- **“Right-size” or combining** plan sheets to reduce designer effort, reduce discrepancies, and facilitate construction efficiency.
- **Obtain** clearances prior to Stage IV.
- **Assign** technical staff with specifically relevant experience.
- **Perform** constructability reviews to reduce contractor questions.

PROJECT MANAGEMENT

The following management duties are engrained in every task:

- **Regular and proactive** communication with ADOT PM regarding status, critical issues, schedule, action items, and risk mitigation measures.
- **Implementing** strong project controls through monthly progress meetings and cost compliance reviews.
- **Incorporating** QC reviews prior to every submittal.
- **Create** a detailed schedule and complete monthly progress updates.
- **Conduct** efficient comment resolution meetings that achieve stakeholder consensus.
- **Encourage** innovative and Performance Based Practical Design (PRPD) opportunities.
- **Solicit and address** ADOT C&S comments prior to Stage IV submittal.

EFFICIENT PLAN SETS

Ardurra leverages our GIS and MicroStation tools to provide scalable exhibits that concisely depict new improvements more efficiently than traditional MicroStation. Our team’s focus is to reduce notes and provide accurate graphical representations that clearly convey new construction to eliminate confusion during the construction phase. From our previous PDOC history, we know that a significant number of the PDOC tasks are pavement preservation. **Pavement preservation projects do not require complicated engineering design or plan representation.** For these projects, we will leverage our experience to create plan sets that consist of:

- Cover sheet
- Standard drawings
- Typical sections summarizing lanes, shoulders, and barriers
- Concise summary sheets (if needed)
- Single plan sheet that includes removals, new pavement edges, pavement markings, and signs
- Schematic traffic control referencing ADOT’s standard details

2. Team Experience & Qualifications

2A. PRIME CONSULTANT & SUBCONSULTANT PROJECT EXPERIENCE

Ardurra’s comprehensive team of management, professional, and technical individuals was formulated to execute any predesign, final design, and post-design assignment. The following projects were specifically selected from our many ADOT On-Call and LPA contract deliveries to demonstrate our flexibility and capability to execute any technical design scope of services.

Project Description	Key Discipline	Record of Performance
Legend: Roadway Design (RD) Survey & Mapping (SM) Landscape Design & Erosion Control (LD/EC) Materials Design (MD) Drainage Design (DD) Bridge Design (BD) Geotechnical Studies (GS) Traffic/Safety Engineering Design (TSED) Intelligent Transportation Systems (ITS) Cost Estimations/Specifications (CE/S) Environmental Studies (ES) ROW Mapping & Plans (RWMP) Utility Locating – SUE (UL) Facilities/Maintenance Design (FMD) Other Expertise (OE) Subconsultant (S)		
ADOT PDOC SR 85 PRESERVATION PIMA COUNTY, AZ PRIME: ARDURRA		
Ardurra prepared a scoping letter (SL) and is preparing PS&E for 17.5 miles of pavement preservation from Elota Ave. to MP 60. Improvements include mill and overlay, guardrail replacement, ADA ramps, box culvert extensions, MOT, signing, and marking upgrades. Schedule compliance and multiple third-party stakeholders (National Park Service at Organ Pipe Cactus National Monument, Pima County, and the City of Ajo) require multiple coordination and construction approvals.	Ardurra (Prime): ▶ RD ▶ TSED ▶ SM ▶ CE/S ▶ LD/EC ▶ RWMP ▶ DD ▶ UL	Subconsultant: ▶ GS ▶ ES (Del Sol) ▶ Schedule: All submittal dates have been met. ▶ Unique Characteristics and Solutions: Concrete slab across asphalt pavement: Ardurra field review after Stage III determined slab is being used by Freeport McMoran (FMI). Ardurra confirmed FMI prior rights and developed a pavement section to resolve maintenance concerns and protect-in-place slab that reduced cost \$350K
ADOT PDOC FRANK REED ROAD MULTI-USE PATH NOGALES, AZ PRIME: ARDURRA		
Ardurra prepared a SL and PS&E for a 10-foot-wide asphalt multi-use pathway (MUP) along the south side of Frank Reed Road. The scope included horizontal and vertical geometry, ADA-compliant facilities, a new guardrail, existing drainage analysis, new drainage facilities compatible with MUP, retaining wall, MOT plan, signing and pavement markings, and post design services.	Ardurra (Prime): ▶ RD ▶ TSED ▶ SM ▶ CE/S ▶ LD/EC ▶ RWMP ▶ DD ▶ UL	Subconsultant: ▶ ES (Del Sol) ▶ Schedule: All submittal dates have been met. ▶ Unique Characteristics and Solutions: Union Pacific Railroad (UPRR): UPRR provided an unpublished document requiring a physical barrier between MUP and the rail after Stage IV submittal. Ardurra developed four alternatives to reduce the scope of work and construct improvements within the LPA’s budget.
ADOT PDOC HOLBROOK BUSINESS 40 HOLBROOK, AZ PRIME: ARDURRA		
Ardurra prepared a SL and PS&E for 1.1 miles of pavement rehabilitation along Business 40. The design team completed field review and ADA compliance report for 500+ features within the project limits. PS&E included mill and overlay, cold patch spot repairs, 28 ADA ramp replacements and longitudinal and transverse crack sealing. Ardurra is currently providing post-design yav services for ADOT.	Ardurra (Prime): ▶ RD ▶ CE/S ▶ SM ▶ UL ▶ RWMP	Subconsultant: ▶ MD (ADOT) ▶ GS (ADOT) ▶ ES (Del Sol) ▶ Schedule: All submittal dates have been met. ▶ Unique Characteristics and Solutions: ROW Clearance: ADOT’s record drawings were determined after Stage IV submittal. Ardurra investigation of ADOT maintenance agreement with City enabled construction outside ADOT ROW. City acknowledgement was obtained to finalize clearance without delaying bid advertisement
ADOT PDOC US 95 / DOME VALLEY YAVAPAI COUNTY, AZ PRIME: ARDURRA		
Ardurra prepared a SL and PS&E to reconfigure the intersection with Dome Valley Road at milepost (MP) 40.43 in Yuma County. Improvements eliminated skewed intersection alignment with poor sight visibility, added eight-foot shoulders and added NB and SB turn lanes. Design scope included new guardrail, mill and overlay full width of US 93, extending culverts and signing and pavement markings.	Ardurra (Prime): ▶ RD ▶ RWMP ▶ SM ▶ CE/S ▶ DD ▶ UL	Subconsultant: ▶ MD (Atek) ▶ GS (Atek) ▶ ES (Del Sol) ▶ Schedule: All submittal dates have been met. ▶ Unique Characteristics and Solutions: Cultural significance site: An archeological site identified by ADOT EP after Stage IV submittal precluded rock cut excavation. Ardurra pivoted to adjust/offset centerline, reduce shoulders, add guardrail and complete design revisions within six weeks to achieve Bid Advertisement schedule.

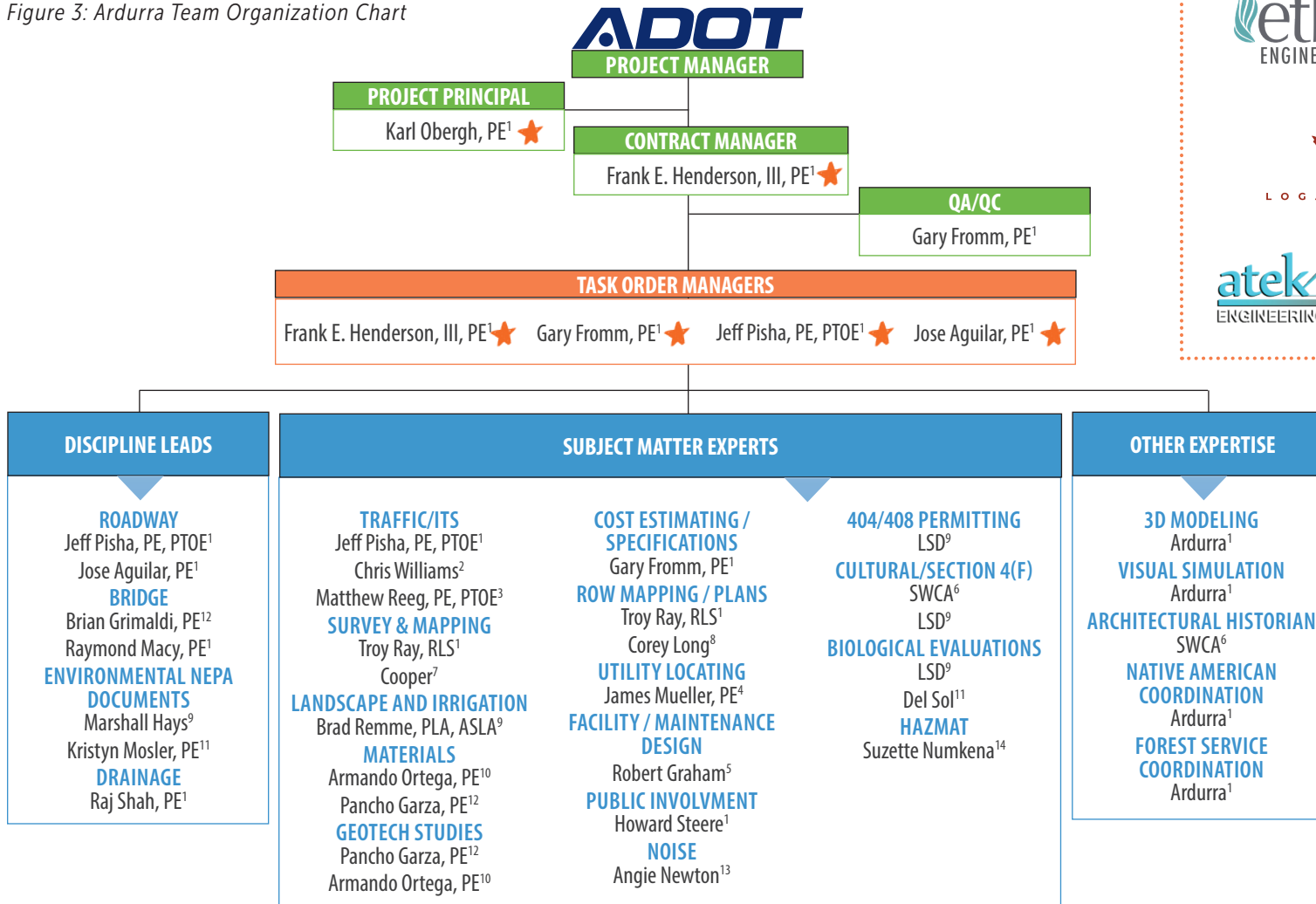
Project Description	Key Discipline	Record of Performance
Legend: Roadway Design (RD) Survey & Mapping (SM) Landscape Design & Erosion Control (LD/EC) Materials Design (MD) Drainage Design (DD) Bridge Design (BD) Geotechnical Studies (GS) Traffic/Safety Engineering Design (TSED) Intelligent Transportation Systems (ITS) Cost Estimations/Specifications (CE/S) Environmental Studies (ES) ROW Mapping & Plans (RWMP) Utility Locating – SUE (UL) Facilities/Maintenance Design (FMD) Other Expertise (OE) Subconsultant (S)		
ADOT PDOC SALINITY CANAL BRIDGES YUMA COUNTY, AZ PRIME: ARDURRA		
Ardurra completed PS&E to replace eight single-span county highway bridge crossings over the irrigation canal. Design elements included roadway geometrics (horizontal and vertical), bridge superstructure and substructure, pavement structural section design, signing plans, detour routes, and construction sequence plan.	Ardurra (Prime): ▶ RD ▶ RWMP ▶ SM ▶ CE/S ▶ LD/EC ▶ UL ▶ TSED	Subconsultant: ▶ MD (Atek) ▶ GS (Atek) ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Efficient construction cost: LPA cost estimates were prepared for each bridge and then "shelved" until federal funds were obtained. Resulting construction cost increases precluded construction of all eight bridges. Ardurra developed construction sequence and detour routes compatible with agricultural trucking that reduced mobilization costs enough to replace all eight structures.		
ADOT PDOC GLOBE BROAD STREET SIDEWALK REPLACEMENT GLOBE, AZ PRIME: ARDURRA		
Ardurra is preparing an SL and PS&E to remove and replace sidewalks, driveway approaches, and curb ramps along Broad Street in Globe's Historic Central Business District with ADA-compliant features. Ardurra's scope also includes public outreach meetings and formal presentations to the City Council.	Ardurra (Prime): ▶ RD ▶ CE/S ▶ SM ▶ UL ▶ RWMP	Subconsultant: ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Cost Compliance: City's federal fiscal limit must be utilized to complete priority ADA improvements. Ardurra orchestrated a full-day "30% plan in hand" field review with City and ADOT staff to ensure scope consensus and an accurate FSL cost estimate.		
ADOT PDOC SR 179 (I-17 TO REDROCK VISTA) JEROME, AZ PRIME: ARDURRA		
Ardurra provided predesign, final design, and post-design civil engineering services to construct approximately six miles of pavement preservation along SR179. This project included a mill and replace of the existing pavement, sealing transverse cracks and fog and blotter coat on the shoulders, as well as upgrading existing guardrail end terminals.	Ardurra (Prime): ▶ RD ▶ RWMP ▶ SM ▶ CE/S ▶ LD/EC ▶ UL ▶ TSED	Subconsultant: ▶ MD (Atek) ▶ GS (Atek) ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: District maintenance improvements: District staff identified a recurring drainage issue after Stage III submittal and requested a new box culvert. Ardurra team identified a low-cost alternative to utilize the existing downstream culvert capacity by constructing 300 feet of rip rap-lined ditch and replacing the existing culvert headwall.		
ADOT PDOC CEMENT PLANT ROAD SHARED USE PATH CLARKDALE, AZ PRIME: ARDURRA		
Ardurra is preparing an SL and PS&E for an eight-foot-wide shared-use path, on-street bike lanes, a right-turn lane, and curb and gutter improvements in the Clarkdale Historic District. Improvements include roadway reconstruction, guardrail updates, box culvert extensions, MOT, solar-powered Rectangular Rapid-Flashing Beacon (RRF), curb and gutter, and signing and marking. Stakeholder consensus requires extensive coordination with ADOT, Clarkdale, the Yavapai-Apache Nation (YAN), the Salt River Pima-Maricopa Indian Community (SRPMIC), and Clarkdale-Jerome School.	Ardurra (Prime): ▶ RD ▶ TSED ▶ SM ▶ RWMP ▶ LD/EC ▶ CE/S ▶ DD ▶ UL	Subconsultant: ▶ MD (Atek) ▶ GS (Atek) ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Stakeholder consensus and cultural concurrence: Project improvements within YAN and SRPMIC require tribal coordination and approval for field investigations and improvements. Ardurra's longstanding relationship with LPA staff realized an opportunity to capitalize on the Town's established relationships with YAN and SRPMIC representatives by scheduling monthly stakeholder meetings for schedule status, cultural investigations, and improvement consensus.		
ADOT RUSSELL ROAD GILA COUNTY, AZ PRIME: ARDURRA		
Ardurra is preparing a Project Assessment (PA) to analyze alternatives, including a new alignment within the Tonto National Forest to repair eight damaged sections or relocate two miles of flood-damaged roadway away from Russell Gulch. PA includes Stage III plans, construction quantities, cost estimates, and a drainage memo. An environmental overview and coordination with utility companies, the U.S. Army Corps of Engineers, and the Tonto National Forest will address existing conditions and potential conflicts.	Ardurra (Prime): ▶ RD ▶ RWMP ▶ SM ▶ CE/S ▶ DD ▶ UL	Subconsultant: ▶ MD (Atek) ▶ GS (Atek) ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Scope and cost confirmation: Ardurra proposed a reduced scope and fee to only complete PA with cost estimate. The reduced scope's goal is to maximize existing federal funds to confirm preferred alternative and cost. This approach enables the County to apply and obtain federal funds that accurately match the preferred solution and efficiently proceed to final design.		
SCOTTSDALE SCOTTSDALE ROAD – JOMAX RD TO DIXILETA DRIVE SCOTTSDALE, AZ PRIME: ARDURRA		
Ardurra prepared a SL and PS&E to widen the existing arterial roadway to two lanes in each direction, raise the landscape median, add bike lanes, sidewalks, a multi-use trail, and offsite/on-site drainage. The scope also included utility, environmental, ADOT, and community coordination.	Ardurra (Prime): ▶ RD ▶ TSED ▶ SM ▶ CE/S ▶ LD/EC ▶ RWMP ▶ DD ▶ UL	Subconsultant: ▶ MD (ATEK) ▶ GS (ATEK) ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Federal-funded LPA project: The project highlights Ardurra's capabilities and experience to complete this federally funded LPA project. Our team identified a roundabout option instead of a signal-controlled intersection at Dynamite, which enabled the City to acquire federal funds.		
QUEEN CREEK CRISMON ROAD WIDENING QUEEN CREEK, AZ PRIME: ARDURRA		
Ardurra prepared PS&E for Crismon Road between Cloud Rd and Riggs Rd. The project involved widening the western half of Crismon Road, flush striped medians, bike lanes, curb and gutter, and sidewalks. This project impacted existing Queen Creek Irrigation District ditches (QCID) and private ditches.	Ardurra (Prime): ▶ RD ▶ RWMP ▶ SM ▶ CE/S ▶ DD ▶ UL ▶ TSED	Subconsultant: ▶ MD (Atek) ▶ GS (Atek)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Innovative geometric design: Our team implemented a unique "egg-shaped" roundabout that avoided three above-grade irrigation structures. The innovative design eliminated 12 months for irrigation relocation and approximately \$1.25M.		
SCOTTSDALE SCOTTSDALE ROAD PROJECT ASSESSMENT SCOTTSDALE, AZ PRIME: ARDURRA		
Ardurra is preparing a Project Assessment (PA) and Stage II plans to evaluate roadway and drainage improvement alternatives between Dixileta Dr and Carefree Highway. Regional drainage channels will be analyzed and presented to FCDMC for potential cost-sharing opportunities. Lone Mountain and Carefree Highway intersections will be analyzed for traffic signal and roundabout options.	Ardurra (Prime): ▶ RD ▶ RWMP ▶ SM ▶ CE/S ▶ DD ▶ UL ▶ TSED	Subconsultant: ▶ MD (ATEK) ▶ GS: (ATEK) ▶ ES (Del Sol)
Schedule: All submittal dates have been met. Unique Characteristics and Solutions: Federal-funded LPA project: The project highlights Ardurra's capabilities and experience to complete this federally funded LPA project. Our team's approach is to comply with all processes required for federal fund applications concurrent with obtaining construction partners.		

3. Team Capability

» Organization Chart

Our team (Figure 3) was specifically selected for this contract with overlapping resources to meet any/all TO delivery schedules. Ardurra's overlapping resources ensure the availability of management, technical, and administrative resources to achieve multiple concurrent task order schedule and budget goals. It provides ADOT with the right combination of team members who understand, through their project experience, the challenges associated with delivering this PDOC contract. Key Personnel qualifications are summarized on the following page, with detailed resumes at the end of this proposal. **Company responsibilities and corporate titles are included on the resumes at the end of this submittal.**

Figure 3: Ardurra Team Organization Chart




★ = Key Team Member | Ardurra¹ | Y2K² | SWTE³ | T2UE⁴ | Motley⁵ | SWCA⁶ | Cooper⁷ | Tierra⁸ | LSD⁹ | Atek¹⁰ | Del Sol¹¹ | Ethos¹² | Newton¹³ | Western Technologies¹⁴ |



3A. TEAM MEMBER'S KNOWLEDGE, SKILLS & ABILITIES

Ardurra's relevant project experience with Key Disciplines, Prime Consultant and Subconsultant roles, and delivery schedule performance is outlined in the following pages. This matrix identifies relevant technical task order discipline tasks that our team has previously performed, similar to technical tasks anticipated from this solicitation.








Staff (Ardurra unless otherwise noted) |
Role(s) | ★ = Key Staff

STAFF DETAILS				KNOWLEDGE, SKILLS, AND ABILITIES																						
	AZ Registration (PE, PTOE, RLS, RLA, RA)	Education	Years of Experience	ADOT PDOC Experience	Predesign/Scoping Experience	Final Design Experience	Post Design Experience	Roadway Design (RD)	Survey & Mapping (SM)	Landscape Arch Design/Erosion Control (LD/EC)	Materials Design (MD)	Drainage Design (DD)	Bridge Design (BD)	Geotechnical Studies (GS)	Traffic/Safety Engineering Design (TSED)	Intelligent Transportation Systems (ITS)	Cost Estimations/Specifications (CE/S)	Environmental Studies (ES)	ROW Mapping & Plans (RWMP)	Utilities Locating (UL)	Facilities/Maintenance Design (FMD)	Public Involvement	Project Management	Federal Project Experience	LPA Experience	Incorporated PBPD
ARDURRA	Karl Obergh, PE Project Principal ★	34008	BS	33	✓	✓	✓	✓	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Frank E. Henderson III, PE Contract Mgr Task Order Mgr ★	28940	BS	46	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Gary Fromm, PE QA/QC Task Order Mgr Cost Estimating/Specifications ★	36495	BS	34	✓	✓	✓	✓		✓		✓			✓		✓	✓	✓	✓		✓	✓	✓	✓	✓
	Jeff Pisha, PE, PTOE Task Order Mgr Roadway Lead Traffic/ITS Lead ★	82415 3637	BS	31	✓	✓	✓	✓				✓			✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
	Jose Aguilar, PE, ENV SP Task Order Mgr Roadway Lead ★	65974	BS	11	✓	✓	✓	✓				✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Raj Shah, PE Drainage Design	27556	BS	35	✓	✓	✓	✓				✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓
	Howard Steere Public Involvement	N/A	BA	32	✓	✓	✓	✓														✓	✓	✓	✓	
	Troy Ray, RLS Survey & Mapping	33868	BS	32	✓	✓	✓	✓	✓										✓					✓	✓	



» Subconsultants

Subconsultants		Staff (Ardurra unless otherwise noted) Role(s) ★ = Key Staff		STAFF DETAILS			KNOWLEDGE, SKILLS, AND ABILITIES																					
				AZ Registration (PE, PTOE, RLS, RLA, RA)	Education	Years of Experience	ADOT PDOC Experience	Predesign/Scoping Experience	Final Design Experience	Post Design Experience	Roadway Design (RD)	Survey & Mapping (SM)	Landscape Arch Design/Erosion Control (LD/EC)	Materials Design (MD)	Drainage Design (DD)	Bridge Design (BD)	Geotechnical Studies (GS)	Traffic/Safety Engineering Design (TSED)	Intelligent Transportation Systems (ITS)	Cost Estimations/Specifications (CE/S)	Environmental Studies (ES)	ROW Mapping & Plans (RWMP)	Utilities Locating (UL)	Facilities/Maintenance Design (FMD)	Public Involvement	Project Management	Federal Project Experience	LPA Experience
SUBCONSULTANTS	 Ethos Engineering LLC Brian Grimaldi, PE Bridge Lead Pancho Garza, PE Materials/Geotech Studies	44976	BS	26	✓	✓	✓	✓				✓		✓				✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
		47676	MS	22	✓	✓	✓	✓				✓			✓									✓	✓	✓	✓	✓
	Logan Simpson Design Marshall Hays Environmental Rod Stanger, RLA Landscape/Irrigation	N/A	BS	12	✓	✓	✓	✓											✓				✓		✓	✓		
		36894	BS	36	✓	✓	✓	✓	✓		✓	✓						✓			✓		✓		✓	✓		
	 Y2K Engineering, LLC Chris Williams PE, PTOE Traffic/ITS	42636 2029	BS	24	✓	✓	✓	✓								✓	✓	✓		✓	✓				✓	✓	✓	✓
	 ATEK Engineering Consultants, LLC Armando Ortega, PE Materials/Geotech Studies	39511	BS	30	✓	✓	✓	✓				✓			✓											✓	✓	
	Motley Design Group LLC Robert Graham, AIA, NCARB Facility/Maint Design	22434	BS	40	✓	✓	✓	✓														✓		✓		✓	✓	✓
	SouthWest Traffic Engineering Matthew Reeg, PE, PTOE Traffic/Safety Engineering & ITS	63605 4212	BS	14	✓	✓	✓	✓									✓	✓	✓	✓	✓	✓				✓	✓	✓
	 Del Sol Group Kristyn Mosler, PE Environmental	41978	BS	27	✓	✓	✓	✓												✓						✓	✓	
	 Newton Environmental Consulting, LLC Angela Newton Noise	N/A		25	✓	✓	✓	✓												✓						✓	✓	
	Western Technologies, Inc. Suzette Numkena Hazmat	N/A	BS	30	✓	✓	✓	✓											✓						✓	✓		

1. Key Personnel

Ardurra has assigned our two most experienced ADOT professional engineers to be the key personnel project principal (PP) and project (Contract) manager (PM) roles identified in the RFQ. Our PPs and PMs' past project delivery performance on contracts and projects of similar magnitude, including the current Project Development On-Call, demonstrates their knowledge, skills, and abilities to accomplish all TO management and technical requirements.

1A. PROJECT PRINCIPAL



KARL OBERGH, PE | *Project Principal*

Professional Registration: AZ PE #34008 | **Education:** BSCE, Northern Arizona University | **Years of Experience (Firm/Total):** 21/33

Experience Summary: Karl is an Arizona native with over 33 years of construction, civil engineering, and ADOT experience. He will serve as Project Principal and handle all contractual matters and disputes; he is responsible for the quality and timeliness of all deliverables. **Karl has full authority to commit all necessary personnel, equipment, and other resources to execute every task in this contract.** He is immediately available to coordinate and execute Task Order (TO) scopes of work, delivery schedules, and fee estimates within three days of assignment notification from ADOT's Contract Manager. His role as Ardurra's Project Principal includes availability and commitment to make any resource adjustment necessary to ensure TO submittals and "Bid Ready" construction documents are provided and completed per scheduled milestones.

Karl was the Project Principal for successfully delivering 30 TOs from Ardurra's current and previous PDOC contracts. He has extensive experience partnering with ADOT on projects such as SR 303L: Peoria Avenue to Mountain View Boulevard; SR202L Higley Road to Power Road; SR 89/SR69 TI; US 60, I-10 to Val Vista Drive; and the I-10/Maricopa TI. Karl has a proven record of responsiveness and leadership and is an active participant committed to the success of all TOs from this ADOT contract.

1B. CONTRACT MANAGER



FRANK E. HENDERSON III, PE | *Project (Contract) Manager*

Professional Registration: AZ PE #28940 | **Education:** BSCE, United States Air Force Academy | **Years of Experience (Firm/Total):** 17/46

Experience Summary: Frank's 46 years of civil engineering experience has primarily been focused on predesign, design, and construction services for transportation improvement projects and related infrastructure. He has served as Project Principal or Project Manager on all of Ardurra's transportation discipline contracts for the last 11 years, including as PM for Ardurra's current and previous Project Development On-Call contracts. His commitment to customer service, immediate responsiveness to client requests, and proactive management approach are demonstrated by his **delivery of over 30 ADOT On-Call TOs and 21 Certified Accepted (CA) LPA contracts.** Frank's experience is supplemented by his final design project management experience, delivering more than 75+ miles of urban freeway, urban arterial, and rural highway projects. This project development history gives him the expertise to understand the technical and management resources required to deliver federally funded On-Call TOs successfully.

Frank's project management duties include the development of the project work plan and budget, managing the project schedule and deliverables, overseeing the project team, and coordinating with the ADOT team and stakeholders. He has an excellent reputation at ADOT for his experience, responsiveness, and reputation for delivering transportation improvement projects that meet all schedule, budget, and compliance goals. His broad technical depth, experience managing interdisciplinary teams, and stakeholder collaboration skills ensure that design issues are resolved to deliver transportation improvements that incorporate cost-effective solutions. Frank's current Senior Project Manager role at Ardurra includes managing four scoping, PA, and final design assigned task orders in Ardurra's current Project Development On-Call contract. He will be responsible for our team's daily communications with ADOT and will be the primary contact for each ADOT PM. He is immediately available to coordinate and execute TO scopes of work, delivery schedules, and fee estimates within three days of assignment notification from ADOT's Contract Manager. We anticipate his PM role for this contract will require 60% of his capacity. Frank is exclusively available to manage and deliver all TOs assigned to Ardurra.



1C. TASK ORDER MANAGERS



GARY FROMM, PE | Task Order Manager

Professional Registration: AZ PE #36495 | **Education:** BSCE, University of Arizona
Corporate Title: Transportation Practice Director | **Responsibilities** include the overall operation of the Transportation Practice in the Mountain Region | **Years of Experience (Firm/Total):** 3/34

Experience Summary: Gary brings 34 years of transportation project management and design experience. He has diversified experience working with various governmental agencies at the city, county, state, and federal levels. His proven track record as a leader who can effectively coordinate with multiple disciplines simultaneously to resolve project issues promptly makes him stand out. His comprehensive experience across all phases of the project development process, from planning and programming to design and construction administration, demonstrates his ability to oversee projects from start to finish. **Gary has been managing ADOT On-Call tasks for over 20 years, including the Predesign, Design, Statewide, Local Governments, District Minor, and Project Development On-Calls.** He has worked on many tasks on accelerated schedules, developed unique design details and specifications for ADOT programs, and worked with many LPAs around the state. Gary's strong work ethic and ability to manage diverse issues and deliver quality projects make him a highly effective TO Manager.



JEFF PISHA, PE, PTOE | Task Order Manager

Professional Registration: AZ PE #82415, PTOE # 3637 | **Education:** BSCE, Bradley University
Corporate Title: Roadway Group Manager | **Responsibilities** No corporate responsibilities | **Years of Experience (Firm/Total):** 1/30

Experience Summary: Jeff has over 30 years of experience in transportation projects for the Department of Transportation (DOT) and local agencies. He is experienced in the entire project life cycle and thoroughly understands the DOT and federal processes. Jeff is the Transportation Group Manager at Ardurra, leading project teams to ensure on-time, on-budget, and high-quality project delivery. He emphasizes open communication, team motivation, and accountability while mentoring and developing engineers within the organization. He is currently the Deputy Project Manager for seven ADOT PDOC projects, leading the technical teams. Jeff's technical and managerial background includes transportation planning, design, project management, and post-design services. **His PM experience encompasses traffic interchanges, highway expansions, roadway realignment, arterial widening/reconstruction, arterial intersections, resurfacing, bridge construction, and drainage enhancements.** His project management capabilities to execute DOT improvement are authenticated by the successful delivery of 100+ federally funded projects for the Will County Department of Transportation (WCDOT) in Illinois. Jeff managed and coordinated efforts with Federal, State, and Local agencies, utilities, consultants, contractors, and environmental regulatory bodies. Jeff's responsibilities also included managing project costs, clearances, design standards, contracts, schedules, construction assessments, and Federal Aid Urban and Motor Fuel Tax submittals with the WCDOT, demonstrating his deep understanding of regulatory requirements and funding mechanisms.



JOSE AGUILAR, PE, ENV SP | Task Order Manager

Professional Registration: AZ PE #65974, ENV SP # 6550 | **Education:** BSCE, University of Arizona
Corporate Title: No Corporate Title | **Responsibilities** No corporate responsibilities | **Years of Experience (Firm/Total):** 2/11

Experience Summary: Jose Aguilar brings significant value to ADOT through his 11 years of experience working on ADOT projects, including several ADOT PDOC projects. His deep understanding of the PDOC process allows him to navigate project development efficiently, ensuring compliance with agency goals, policies, and best practices. Specializing in roadway design and aviation project management, Jose has contributed to a diverse range of transportation projects, from two-lane rural highways to complex urban arterials, consistently delivering high-quality designs that align with ADOT's standards.

As a highly skilled civil designer, Jose is proficient in the latest versions of MicroStation, AutoCAD Civil 3D, InRoads, OpenRoads, and AutoTurn, allowing him to produce accurate and efficient designs. His extensive knowledge of federal, state, and local policies ensures strict adherence to agency standards, specifications, and regulatory requirements. Additionally, **his familiarity with alternative delivery methods enables ADOT to optimize project timelines, budgets, and resource allocation.** His ability to collaborate with internal teams, external agencies, and stakeholders fosters seamless project execution and strong professional relationships.



2. QA/QC

» Quality Control Program

Ardurra's Project Quality Management Plan (QMP) describes quality management throughout the project lifecycle and defines how the project team will continuously implement, support, and communicate quality control practices. Task Order Managers (TOM) are required to create a Quality Control Plan (QCP) specific to each project that defines the project's policies, procedures, and processes to ensure project deliverables meet Client and Ardurra requirements. The QCP establishes every team member's responsibilities for Quality Assurance (QA) and Quality Control (QC). The TOM's QCP assigns a Peer Reviewer responsible for technical review of design calculations, specifications, construction details, etc. Ardurra utilizes Bluebeam for our internal QC review process which allows all reviewers access to comments in real time and the originator to respond quickly. A Subject Matter Expert (SME) is assigned and responsible for comprehensive review and confirmation that deliverables meet the client's standards, specifications, procedures, and project goals. Ardurra's four-step process is shown in Figure 2.

Gary Fromm, our proposed Quality Manager, will administer, direct, and supervise the QA/QC program. He will ensure conformance and adherence to all standards, specifications, manuals, guides, procedures, and ADOT regulations.



» Subconsultant Quality Monitoring

Our subconsultants' work is reviewed by staff knowledgeable in the specific discipline before integration into our submittals. Gary and our TOMs work together during the internal review process to ensure quality between work products of our team members, including subs, and to provide a complete and accurate submittal at each stage.

» Identifying and Addressing Risks

Preparing quality design and construction documents includes identifying and mitigating real and potential project risks. Ardurra's identification of project risks begins with our task order SOI submittal, which includes an initial description of risks and presents potential solutions throughout contract development. We will continue to vet our understanding of project risks with the ADOT PM, ADOT District staff, and LPA staff to ensure that risk mitigation is central to the project development process. Risk mitigation review is part of each staff member's everyday quality control procedures. Depending on the project's scope and the perceived impact of identified risks, the QCP will include appropriate senior staff reviews and interventions at key stages. For example, an arterial widening project that impacts access to multiple residential and commercial properties will have "access control during construction" identified as a risk.

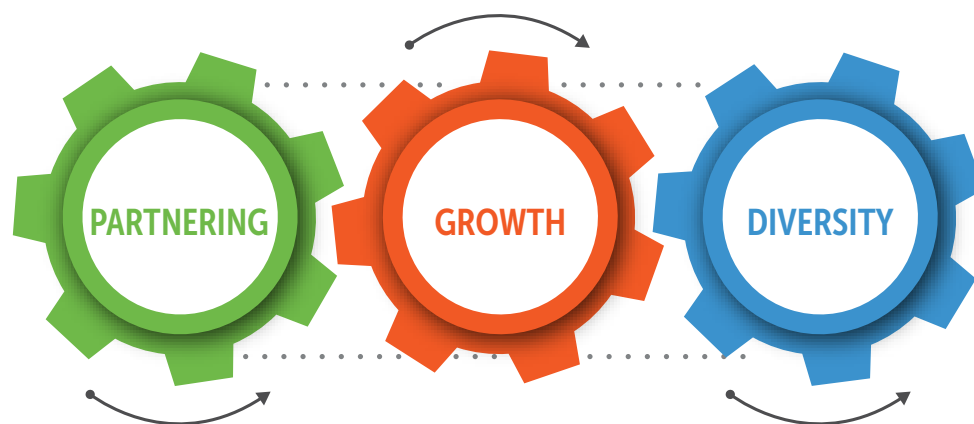
» Successful Implementation of the Quality Control Program

Our rigorous quality control program will enhance each task order assignment by identifying conflicting design elements or constructability issues early in project development. Early identification of any issues and/or concerns maximizes the time available to develop, analyze, and discuss potential solutions with the partnering agency(s) on each issue as they arise while eliminating or minimizing potential schedule and budget concerns. Our goal for each task order assignment will be to deliver innovation without sacrificing the reliability of the design solutions. Our approach promotes partnering among the entire team, improving quality, efficiency, and timeliness. Our recent experience with ADOT is a testament to our dedication to quality on every task order.

3. DBE Commitment

ADOT's recognition and award of ADOT's DBE Consultant Champion Award for DBE Partnering Effort in 2010 and 2016 demonstrates Ardurra's commitment to encouraging transportation design experience, diversity, and growth. Our efforts to include DBE participation in the current Project Development On-Call contract is evidenced by assigning higher percent portions of the total task order to DBE firms – which exceeds the DBE goal established in the contract. Ardurra's continued commitment to meeting or exceeding the DBE goal on each task order assignment is demonstrated by our inclusion of five reputable DBE firms that have provided similar specialized services on previous contracts. We commit to continuing our utilization of DBE firms on this contract and will meet or exceed the established 11.96% DBE contract goal.

PRIME CONSULTANT CHAMPION ADOT DBE Supportive Services Program Award Winner





KARL OBERGER, PE

Project Principal

YRS OF EXPERIENCE (FIRM | TOTAL)

21 | 33

REGISTRATION(S)

Professional Engineer AZ #34008

EDUCATION

BS, Civil Engineering University of Arizona

CORPORATE TITLE/ RESPONSIBILITIES

Director: Responsibilities include the overall operation of the Mountain Region

VALUE TO ADOT

- 33 Years of Experience
- 30 years working with ADOT
- Federally Funded Projects Experience

PROFILE SUMMARY

Karl is an Arizona native with over 33 years of construction, civil engineering, and ADOT experience. He will serve as Project Principal and handle all contractual matters and disputes; he has ultimate responsibility for the quality and timeliness of all deliverables. Karl has full authority to commit all necessary personnel, equipment, and other resources required to execute every task in this contract. He is immediately available to coordinate and execute Task Order (TO) scopes of work, delivery schedules, and fee estimates within three days of assignment notification from ADOT's Contract Manager. His role as Ardurra's Project Principal includes availability and commitment to make any resource adjustment necessary to ensure TO submittals and "Bid Ready" construction documents are provided and completed in conformance with schedule milestones.

Karl served as Project Principal for the successful delivery of over 30 TOs from Ardurra's current and previous PDOC contracts. He has extensive experience partnering with ADOT on projects such as: SR 303L: Peoria Ave to Mountain View Blvd; SR202L Higley Rd to Power Rd; SR 89/SR69 TI; US 60, I-10 to Val Vista Dr; and the I-10/Maricopa TI. Karl has a proven record of responsiveness and leadership and is an active participant who is committed to the success of all TOs from this ADOT contract.

PROFESSIONAL EXPERIENCE

ADOT, PDOC On-Call Contract (2014-006.16). Project Principal. PP for nine assignments, including design and construction phase services. Projects included I-8/Araby (10 interchanges with roundabouts), SR 179 pavement preservation (six miles), SR 89 (two miles widening with turn lanes), Buckeye multiuse path (two miles), Maricopa Casa Grande Highway widening (2.5 miles), and four irrigation canal bridges in Yuma County.

ADOT, PDOC On-Call Contract (2018-006.16). Project Principal for three assignments, including Nogales multi-use path (1.5 miles), US 95 Dome Valley intersection (realign intersection, create turn lanes, and widen two miles of US 95), and four irrigation canal bridges in Yuma County.

ADOT, PDOC On-Call Contract (2022-006.13). Project Principal for five assignments that include Holbrook B40 (1.5 miles pavement preservation), SR 85 (17 miles pavement preservation), and three LPA projects for Clarkdale (1.5-mile multi-use path), Globe (40 ADA ramp replacements), and Jerome (0.25-mile collector street replacement).

ADOT, On-Call District Minor, Globe, AZ. Project Principal. On-Call assignments required design approvals, environmental clearance and construction schedule coordination with the San Carlos Tribe and White Mountain Apache Tribe. The services provided consisted of rural highway and roadway, drainage, utilities, ROW, survey, geotechnical, environmental, cultural resources, traffic, structural, erosion control, landscape architecture, pre-design, planning, post-design services, GIS, road maintenance, technical reports, and ADA compliance.

ADOT, Traffic Safety Section (TSS) On-Call, Various, AZ. Project Principal. Projects varied and consisted of all pre-construction activities for various tasks. These tasks included the development of project scoping documents, preparation of designs and construction plans, technical specifications, special provisions, cost estimates, and other planning, scoping, design, and related construction documents. Projects included corridor safety studies, roadway design, intersection improvements, auxiliary lanes, medians, curb and gutter and sidewalk, turn lanes, road widening, and drainage improvements.



KARL OBERGH, PE | PROJECT PRINCIPAL

ADOT PDOC, I-8/Araby Road Intersection (2014-016.16), Yuma, AZ. Project Principal. Managed and coordinated design, engineering, surveying, and ROW services to convert signalized intersections at I-8/Araby Road, westbound ramps, eastbound ramps, and Gila Ridge Road to roundabout intersections. This entailed constructing and reconnecting crossroads, ramps, front road approaches, and drainage improvements. Prepared final design documents, ROW/utility/materials clearances, and utility removal/relocation.

ADOT PDOC, I-17 Pavement Preservation, 19th Ave to Arizona Canal Trail (2018-006.16), Phoenix, AZ. Project Principal. The project includes producing roadway plans and striping plans to resurface 13 miles of the I-17 mainline. I-17. Mainline improvement features included guardrail replacements, slab repairs, and bridge deck modifications. Project improvements included the design and plans to reconstruct 125 sidewalk ramps and traffic signals to be ADA-compliant.

I-10: I-17 Split to SR 202L (Santan) Design-Build, Phoenix, AZ. Project Principal. Ardurra provided utility coordination for the reconstruction of I-10 between Loop 202 and I-17, also known as the I-10 Broadway Curve. As the largest urban freeway reconstruction project in Maricopa County, this project will widen I-10 to six general purpose lanes and two high-occupancy vehicle lanes in each direction. Additional work will occur on approximately one mile of US 60 between I-10 and Hardy Drive and on approximately one mile of SR 143 between I-10 and the Salt River. This project is being delivered as a Public-Private Partnership as a Design/Build and by a joint venture developer.

ADOT, Ave 28E @ County 9th St - Salinity Canal Bridge Replacement, Yuma County, AZ. Project Principal. Ardurra completed topographic survey and final design for the rehabilitation of the single-span Salinity Canal Bridge. Our team prepared PS&E for all work needed to accomplish full bridge rehabilitation. Design elements required in conjunction with bridge replacement include horizontal alignment, vertical profile for roadway approaches and bridge deck, structural design, pavement structural section design, signing, marking, traffic control, and development of a construction schedule compatible with agriculture and harvest trucking operations.

Juan Sanchez Blvd: 10th Ave to Ave E, San Luis, AZ. Project Principal. Ardurra provided predesign, final design, and post design civil engineering services to construct approximately three miles of pavement preservation along US95 (Juan Sanchez Blvd). Improvements included ground-in rumble strips, fog coat and blotter material, pavement markings, and other ancillary work.

ADOT, Lower Buckeye Road Multi-Use Path (MUP), Buckeye, AZ. Project Principal. Final and post design for three miles of 10' wide concrete multi-use trail (MUT) to provide multi-modal connectivity between Sundance Park Recreational Facility, Sundance Elementary School and surrounding Sundance residential communities. MUT features design required 19 new ADA ramps at street intersections, new wayfinding and guidance signs, pavement marking, three low water crossings, Low Impact Design (LID) drainage features. MUT ADA ramp geometric design was set to match cross street elevations to eliminate cost of cross street reconstruction.

ADOT, Maricopa Casa Grande Highway (MCGH) - Porter Road to White-Parker Road, Maricopa, AZ. Project Principal. Ardurra provided final design, drainage, and traffic signal improvements. The project scope for this project is to widen the existing three-lane roadway to a five-lane section and resurface approximately 1.7 miles of MCGH. MCGH is an existing east/west principal arterial that is generally a two-lane roadway (one lane in each direction). Different roadway segments along MCGH have been improved to provide two lanes in each direction. The roadway segment between Porter Road and White and Parker Road is one lane in each direction except at Porter Road intersection where the lanes have been widened to provide two lanes in each direction.

ADOT, I-17 Pavement Preservation: 19th Ave to Arizona Canal, Phoenix, AZ. Project Principal. The initial scope for 26 miles of 1.5-inch mill + replace asphalt was increased to include 80+ ADA (ramps, driveways, signal push button) compliant features at 10 urban cross streets. Ardurra's task management approach eliminated schedule delays by completing field assessment, ADA compliance report, and cost estimate concurrent with Stage II development to initiate federal fund adjustments concurrent with Stage III development. Improvements provide ADA-compliant connectivity to the only pedestrian overpass of I-17.



FRANK E. HENDERSON, III, PE

Project (Contract) Manager | Task Order Manager

YRS OF EXPERIENCE (FIRM | TOTAL)

17 | 46

REGISTRATION(S)

Professional Engineer AZ #28940

EDUCATION

BS, Civil Engineering US Air Force Academy

CORPORATE TITLE/ RESPONSIBILITIES

Water Group Leader: No corporate responsibilities

VALUE TO ADOT

- 46 years of civil engineering, including predesign, final design, and construction services.
- 26 years of ADOT expansion, pavement preservation, and on-call project delivery experience
- Established relationships with ADOT PMG, District, Technical Groups, and C&S staff.
- Project Manager for 30 ADOT On-Call assignments in the last 10 years.
- Project Manager for 21 Certified Accepted (CA) LPA projects in the last 12 years
- Design and construction management of 75+ miles of urban freeway, rural highway, pavement preservation, street diet, and arterial roadways.
- Combined final design and construction expertise provides early constructability review and cost-cognizant design.

PROFILE SUMMARY

Frank has 46 years of civil engineering experience providing predesign, design, and construction management services for government agencies. His expertise includes federal, state, and local agency design and construction services for all aspects of transportation, roads, bridges, water, wastewater, and stormwater infrastructure required to complete the ADOT delivery process. Frank's construction management experience provides constructability expertise that allows the design team to oversee the identification of constructability issues and implement solutions during Stage III development. This expertise ensures the design team's identification of clearance footprints correctly overlays construction areas prior to initiating ROW and environmental clearance processes. His PM experience delivering 30+ federally funded ADOT and LPA projects demonstrates the management skills needed to successfully navigate any design obstacle without impacting the Bid Advertisement date. Frank is known for his outstanding communication skills, which ensure all stakeholder concerns are heard, understood, and resolved.

PROFESSIONAL EXPERIENCE

ADOT, PDOC On-Call Contract (2014-006.16). Project Manager. PM for nine assignments, including design and construction phase services. Projects included I-8/Araby (10 interchanges with roundabouts), SR 179 pavement preservation (six miles), SR 89 (two miles widening with turn lanes), Buckeye multiuse path (two miles), Maricopa Casa Grande Highway widening (2.5 miles), and four irrigation canal bridges in Yuma County.

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ADOT, On-Call District Minor, Globe, AZ. Project Manager and Construction Manager. On-Call assignments required design approvals, environmental clearance and construction schedule coordination with the San Carlos Tribe and White Mountain Apache Tribe. The services provided consisted of rural highway and roadway, drainage, utilities, ROW, survey, geotechnical, environmental, cultural resources, traffic, structural, erosion control, landscape architecture, pre-design, planning, post-design services, GIS, road maintenance, technical reports, and ADA compliance.

ADOT, Traffic Safety Section (TSS) On-Call, Various, AZ. Project Manager. Projects varied and consisted of all pre-construction activities for various tasks. These tasks included the development of project scoping documents, preparation of designs and construction plans, technical specifications, special provisions, cost estimates, and other planning, scoping, design, and related construction documents. Projects included corridor safety studies, roadway design, intersection improvements, auxiliary lanes, medians, curb and gutter and sidewalk, turn lanes, road widening, and drainage improvements.

**FRANK E. HENDERSON, III, PE | PROJECT (CONTRACT) MANAGER | TASK ORDER MANAGER**

ADOT PDOC, I-8/Araby Road Intersection (2014-016.16), Yuma, AZ. Project Manager. Managed and coordinated design, engineering, surveying, and ROW services to convert signalized intersections at I-8/Araby Road, westbound ramps, eastbound ramps, and Gila Ridge Road to roundabout intersections. This entailed constructing and reconnecting crossroads, ramps, front road approaches, and drainage improvements. Prepared final design documents, ROW/utility/materials clearances, and utility removal/relocation.

ADOT PDOC, I-17 Pavement Preservation, 19th Ave to Arizona Canal Trail (2018-006.16), Phoenix, AZ. Project Manager. The project includes producing roadway plans and striping plans to resurface 13 miles of the I-17 mainline. I-17. Mainline improvement features included guardrail replacements, slab repairs, and bridge deck modifications. Project improvements included the design and plans to reconstruct 125 sidewalk ramps and traffic signals to be ADA-compliant.

ADOT, I-10 Broadway Curve Design-Build, Phoenix, AZ. Utilities Coordinator. As one of ADOT's six designated key design-build roles, Frank coordinated utility mapping, conflict identifications, relocation design, and CPM scheduling. Utility mapping identified approximately 2000 utility crossings of new freeway improvements, of which 600 utility locations were confirmed to be potential conflicts with new underground facilities. Final design tasks included verifying prior rights, preparing legal descriptions, conducting 700+ utility meetings, reviewing/approving 70+ utility relocation plans, 150+ construction permits, and 50+ service request letters. Major utility relocations that were designed, sequenced, and relocated without impacting the construction schedule were:

- Salt River Project (SRP) 69kV transmission, 12kV distribution, and irrigation facilities across I-10 in 27 locations.
- 15 locations of municipal (Phoenix and Tempe) water and sewer infrastructure for 12-inch to 30-inch pipes with 30-inch and 42-inch sleeves.
- APS 230kV outage for Salt River bridge construction.

ADOT, SR 303L, Peoria Avenue to Mountain View, Phoenix, AZ. Project Manager. Managed and coordinated the development of construction documents for 4.5 miles of new six-lane divided urban freeway with eight new bridge overpasses, storm drains, channels, and detention basin drainage facilities. Construction documents included lighting, landscape, noise abatement walls, retaining walls, and aesthetic treatments. Utility coordination included three miles of new irrigation distribution and tailwater collection system for Maricopa Water District (MWD), private irrigation relocations, joint trench communication duct bank crossing, and Arizona Public Service (APS) 69kV OH relocation.

ADOT, US60/Bell Road Traffic Interchange Design-Build. Phoenix, AZ. Utilities Coordinator. Frank coordinated utility mapping, conflict identifications, relocation design, and relocation coordination services during the design and construction phases of the Bell Road bridge over US 60 and the BNSF railroad. The utility coordination role included identifying utility relocation alignments, reviewing utility relocation plans, creating utility construction sequencing, and completing multiple utility clearance letters compatible with the design-build construction schedule. Frank's team identified utility conflicts, conducted weekly coordination meetings, and reviewed relocation plans.

City of Chandler, Arterial Improvements, Chandler, AZ. Project Manager/Construction Manager. Frank completed design and construction oversight, including plans, specifications, estimates, and clearances (environmental, ROW, utility) for 26 federally funded arterial improvement projects totaling 20+ miles since 2010. Project improvement features included a new roadway, arterial intersections, six single-span bridges, large multi-barrel box culverts, street lighting, traffic signals, landscaping, bike lanes, multi-use equestrian path, ROW acquisition, and utility relocation coordination.

ADOT, SR 202L (Santan Freeway), Arizona Avenue to Williams Field Road, Phoenix, AZ. Project Manager. Frank served as Project Manager for this project, providing final design services for 6.5 miles of urban freeway with five full diamond TIs and one-half diamond TI. Final design accounted for the ultimate (4+1) lane configuration. Key project design features included six through lanes, 16 CIP box girder bridges and cast-in-place box girder bridges on drilled shafts, MOT/construction sequence to maintain existing crossroad traffic, hydrology/hydraulics, storm drain design, detention basin, and RCBC. Support project design features included supplemental survey, right-of-way verification, lighting, traffic signals, ITS/FMS, noise walls, utility relocation, and agency coordination.

ADOT, I-10/395th Ave TI, Tonapah, AZ. Project Engineer. Completed roadway geometric design for a new tight diamond TI. Key project design features included realigning 395th Ave to a perpendicular crossing over I-10 to accommodate the ultimate I-10 configuration. Project features included urban freeway TI, urban arterial, on/off ramps, bridge overpass, temporary crossovers, traffic signals, complex storm drain, agency coordination, right-of-way delineation, and final design. Support features included cross-street design, MOT/construction sequence to maintain existing crossroad traffic, utility relocations, FHWA coordination, and Bridge Selection Report.



GARY FROMM, PE

QA/QC | Task Order Manager | Cost Estimating/ Specifications

YRS OF EXPERIENCE (FIRM | TOTAL)

2 | 34

REGISTRATION(S)

Professional Engineer AZ #36495

EDUCATION

BS, Civil Engineering University of Arizona

CORPORATE TITLE/ RESPONSIBILITIES

Transportation Practice Director:
Responsibilities include the overall operation of the Transportation Practice in the Mountain Region

VALUE TO ADOT

- 34 Years of Experience
- 20 years working with ADOT
- Formal Training in Erosion Control and Slope Stability
- Federally Funded Projects Experience

PROFILE SUMMARY

Gary brings 34 years of transportation project management and design experience. He has successfully worked with various governmental agencies, including city, county, state, and federal. He has a proven track record as a leader who can effectively coordinate with multiple disciplines simultaneously to resolve project issues promptly. His comprehensive experience across all phases of the project development process, from planning and programming to design and construction administration, demonstrates his ability to oversee projects from start to finish. Gary has been managing ADOT On-Call tasks for more than 20 years, including the Predesign, Design, Statewide, Local Governments, District Minor, and Project Development On-Calls. Gary's strong work ethic, combined with his ability to manage diverse project issues and deliver a quality project, makes him a highly effective Task Order Manager.

PROFESSIONAL EXPERIENCE

ADOT, PDOC Holbrook B40 – Crestview Drive to Joy Nevin (2022-006.13), Holbrook, AZ. Design Manager. Ardurra prepared a SL and PS&E for 1.1 miles of pavement rehabilitation along Business 40. The design team completed field review and ADA compliance report for 500+ features within the project limits. PS&E included mill and overlay, cold patch spot repairs, 28 ADA ramp replacements and longitudinal and transverse crack sealing. Ardurra is currently providing post-design services for ADOT.

ADOT, Roadway On-Call, Various Locations, AZ. Task Order Manager. Developed the final construction documents for over 20 pavement preservation projects throughout Arizona. Tasks typically included pavement rehabilitation, safety evaluation, maintenance concerns, and traffic operations. Coordination with multiple ADOT disciplines and stakeholders was required to address the concerns and achieve the goals of each project.

ADOT, Quiet Pavement Program, Phoenix, AZ. Task Order Manager. The Quiet Pavement Program was an ADOT program developed to reduce the traffic noise levels on the Regional Freeway System. A 1-inch asphalt rubber (AR-ACFC) overlay was placed on the entire Regional Freeway System in the metropolitan Phoenix area. Gary's team was selected to design six out of the ten phases of this program. Extensive coordination with various ADOT sections (materials, bridge, traffic, and the district) was required to develop the details and specifications that were used throughout the program. These projects were accelerated to meet commitments that were made to the public and construction windows for the placement of AR-ACFC.

ADOT, On-Call Pre-Design Services, Various Locations, AZ. Task Order Manager. Gary's team prepared PAs and Design Concept Reports (DCRs) for projects throughout the State. The extent of work varied depending on the project. Under this contract, the work included site visits to identify and discuss project issues, public meetings to obtain public comments, coordination with key stakeholders, development of alternatives to be presented to stakeholders and included in the DCR, delineation of ROW, and the preparation of drainage and environmental documents.

ADOT, Local Government On-Call (includes Federal Funds). Statewide, AZ. Task Manager. This contract required scoping documents preparation, environmental and cultural reports and clearances, PS&E packages, and post-design support. Projects developed under this on-call contract included Ironwood Drive roadway and drainage improvements and Safe Routes to School enhancement for the City of Apache Junction; traffic and roadway PA for Juan Sanchez Boulevard for the City of San Luis; Davis Road alignment study PA for Cochise County; NEPA and cultural resource reporting and clearances for SR 188; City of Tusayan Bus Shelters; and parking lot improvement at Tonto Natural Bridge State Park.

ARDURRA GROUP, INC.



GARY FROM, PE | QA/QC QA/QC | TASK ORDER MANAGER | COST ESTIMATING/ SPECIFICATIONS

City of Scottsdale, Scottsdale Road: Jomax Road to Dixileta Drive, Scottsdale, AZ. Project Manager. Ardurra was selected to widen the design and complete street improvements for a two-mile section of Scottsdale Road. Roadway improvements include a multi-lane roundabout, raised/landscaped center median, dedicated bike lanes, the eight-foot-wide separated sidewalk on the west side, and a 10-foot-wide stabilized decomposed granite multi-use path on the east side. Scope included development of PA, stakeholder coordination, topographic survey/base mapping, utility coordination, hydrology/hydraulics, base mapping, pedestrian facilities, construction plans, special provisions, Opinion of Probable Cost (OPC), QA/QC, landscaping, traffic studies/design, geotechnical investigation, legal descriptions, and Design Review Board (DRB) approval. There were extensive utility conflicts within the corridor that required relocations, including 69 kV underground power, cell tower, water, 12 kV power, communications, and gas.

City of Buckeye, McDowell Road and Jackrabbit Trail, Buckeye, AZ. Responsible for the final design of the roadway widening on McDowell Road between Tuthill Wash and Jackrabbit Trail and the widening to a six-lane facility on Jackrabbit Trail from McDowell Road to Thomas Road. The McDowell Road section designed an interim three-lane roadway that will ultimately be the westbound lanes. Considerations were made to minimize the ROW impacts, so the project centerline was shifted from the section line to accommodate property owners and allow for the ultimate drainage facilities. The Jackrabbit Trail project minimizes impacts on existing improvements and considers construction phasing during the complete street design for the ultimate six-lane facility. The Jackrabbit Trail Traffic Interchange will be improved after the construction of this project, so interim improvements were required to tie into the improvements on this project. Coordination on the project was required with ADOT, MCDOT, FCDMC, and ASLD.

ADOT, SR 202L Red Mountain Freeway DB (General Engineering Consultant), Maricopa County, AZ. Lead Civil Reviewer. Gary led the civil reviews, which included maintenance of traffic (MOT), roadway, drainage, signing, and striping. This Design-Build project included the construction of 20 miles of infrastructure improvements to enhance capacity needs on SR 202 between SR 101L and Broadway Road. Serving as the GEC our responsibility was to serve as an extension of ADOT and oversee the design and construction of general-purpose lanes (GPLs) on SR 202L Red Mountain Freeway. There was extensive coordination with the ADOT, the contractor, and the contractor's designer to provide approval of the design plans.

City of Peoria, Beardsley Road Connector. Peoria, AZ. Project Manager. Developed the Design Concept Report and final design for the Beardsley Road Connector project, which added new access to SR 101L between Union Hills Drive and 75th Avenue. The project extended Beardsley Road east of 81st Avenue to a new southbound frontage road between 75th Avenue and Union Hills Drive, reconfigured freeway ramps, added Arizona's first U-Turn ramp that provides access to eastbound 101L, and reconstructed (lengthened) the Union Hills Drive ramp to eastbound 101L. This project included multiple new roadways and ramps, two new bridges, arterial roadway widening, a new roundabout, retaining walls, traffic signals, roadway lighting, protection of an existing sanitary sewer main, construction sequencing, traffic control, cost estimates, special provisions, utility coordination, and coordination with multiple project stakeholders.



JEFF PISHA, PE, PTOE

TASK ORDER MANAGER

YRS OF EXPERIENCE (FIRM | TOTAL)

1 | 30

REGISTRATION(S)

Professional Engineer AZ #82415

Professional Traffic Operations

Engineer #3637

EDUCATION

BS, Civil Engineering Bradley
University

CORPORATE TITLE/ RESPONSIBILITIES

No corporate title or responsibilities

VALUE TO ADOT

- 30 Years of Experience
- Federally Funded Projects Experience

PROFILE SUMMARY

Jeff has over 30 years of experience in transportation projects for the Department of Transportation (DOT) and local agencies. He is experienced in the entire project life cycle and thoroughly understands the DOT and federal processes. Jeff is the Transportation Group Manager at Ardurra, leading project teams to ensure on-time, on-budget, and high-quality project delivery. He emphasizes open communication, team motivation, and accountability while mentoring and developing engineers within the organization. Jeff's technical and managerial background includes transportation planning, design, project management, and post-design services. His PM experience encompasses traffic interchanges, highway expansions, roadway realignment, arterial widening/reconstruction, arterial intersections, resurfacing, bridge construction, and drainage enhancements. His project management capabilities to execute DOT improvement are authenticated by the successful delivery of 100+ federally funded projects for the Will County Department of Transportation (WCDOT) in Illinois. Jeff managed and coordinated efforts with Federal, State, and Local agencies, utilities, consultants, contractors, and environmental regulatory bodies. Jeff's responsibilities also included managing project costs, clearances, design standards, contracts, schedules, construction assessments, and Federal Aid Urban and Motor Fuel Tax submittals with the WCDOT, demonstrating his deep understanding of regulatory requirements and funding mechanisms.

PROFESSIONAL EXPERIENCE

ADOT, PDOC Holbrook B40 – Crestview Drive to Joy Nevin (2022-006.13), Holbrook, AZ. Quality Control and PDS Manager. Ardurra prepared a SL and PS&E for 1.1 miles of pavement rehabilitation along Business 40. The design team completed field review and ADA compliance report for 500+ features within the project limits. PS&E included mill and overlay, cold patch spot repairs, 28 ADA ramp replacements and longitudinal and transverse crack sealing. Ardurra is currently providing post-design services for ADOT.

ADOT, PDOC SR 85 Preservation, Elota Avenue to MP 60 (2022-006.13), Ajo, AZ. Deputy Project Manager. This ADOT District maintenance project includes preliminary and final engineering design services for the development of PS&E for approximately 17.5 miles of pavement preservation. The project begins at the intersection of Elota Avenue and SR 85 (MP 42.5) and extends south to MP 60.0. The project includes upgrades to existing guardrails and end terminals, as well as box culvert extensions. Jeff has been instrumental in coordinating efforts related to environmental, ROW, and utility clearances. He has also played a key role in stakeholder coordination, working with ADOT, the National Park Service at Organ Pipe Cactus National Monument, and Pima County. Jeff led efforts to identify design exceptions and authored the design exception memo as part of the scoping letter. He is also responsible for overseeing the development of final PS&E. Relevance: Stakeholder (National Park Service - Organ Pipe Cactus National Monument, ADOT, City of Ajo, Freeport Mining Incorporated) integration, clearances, pavement preservation, and quality control.

ADOT, PDOC, Verde Avenue Planning and Design, (2022-006.13), Jerome, AZ. Deputy Project. Manager. This LPA project includes upgrading the Town's waterline and sanitary sewer infrastructure and optimizing the roadway typical section to enhance traffic flow, on-street parking, and pedestrian facilities. Numerous site constraints require innovative design solutions that achieve Town project improvement goals. As Deputy Project Manager, Jeff oversees the



entire design team, including subconsultants, ensuring quality assurance throughout the preliminary and final design phases. He leads coordination efforts with key stakeholders, including the Town of Jerome, ADOT, and utility companies. Additionally, Jeff is working closely with the Town to help identify future grant opportunities to fund project construction. Relevance: Multi-disciplinary and stakeholder coordination, preliminary and final design, AZ Smart Grant, and clearances.

ADOT, PDOC, Globe Broad Street (2022-006.13), Globe, AZ. Sidewalk Replacement, Globe, AZ. Deputy Project Manager. This LPA project provides preliminary and final engineering design services for the rehabilitation of sidewalks and curb ramps along Broad Street in Globe's Historic Central Business District. The scope includes removing and replacing sidewalks, reconstructing driveway approaches, and upgrading curb ramps to meet ADA compliance standards. Jeff's expertise in ADA compliance, ADA evaluation, and PROWAG standards is instrumental in preparing the compliance report and scoping letter. As Deputy Project Manager, he leads the design team, including subconsultants, ensuring quality assurance from preliminary through final design. He also manages coordination efforts with ADOT, the City of Globe, and utility companies. Jeff is supporting the City's public engagement efforts, including presenting the project at a City Council meeting and a Public Information Meeting. Relevance: Multi-disciplinary and stakeholder coordination, ADA compliance, public information meeting, and AZ Smart Grant.

ADOT PDOC, Cement Plant Road, Clarkdale (2022-006.13), AZ. Deputy Project Manager. The project includes the preliminary and final design for an eight-foot-wide shared-use path, on-street bike lanes, a right-turn lane at the intersection of Cement Plant Road and Main Street, and curb and gutter improvements within the Clarkdale Historic District. As Deputy Project Manager, Jeff oversees the entire design team, including subconsultants and leads coordination efforts with ADOT, the Town of Clarkdale, Yavapai-Apache Nation, Salt River Pima-Maricopa Indian Community, Clarkdale-Jerome School, and utility companies. Additionally, Jeff is coordinating environmental reviews, ROW processes, Section 4(f) compliance, and utility clearances required for bid-ready plans. Relevance: Multi-disciplinary stakeholder coordination, final design, AZ Smart Grant, clearances, and quality control.

ADOT, Russel Road, MP 3.5 to MP 5.2 (2025-005), Globe, AZ. Deputy Project Manager. The purpose of this project is to enhance transportation resiliency by relocating flood-damaged segments of Russell Road, ensuring reliable access to emergency services and the hospital for three rural communities with over 2,000 residents. Severely impacted by flooding and runoff from the 2021 Telegraph Fire, the roadway also serves as a critical route to the Pinal Mountains, where multiple communication towers support federal and emergency operations. The project involves developing a PA and final design to evaluate the realignment and reconstruction of Russell Road at eight isolated locations, shifting it away from the Russell Gulch banks to mitigate flood risks and improve roadway durability during storms and emergency events. The assessment also considers a potential new alignment to the east within the Tonto National Forest. As part of the PA, the project will assess utility relocations and determine whether existing culverts should be extended, removed, or replaced. Each alternative will be evaluated to identify the most cost-effective and resilient solution. As Deputy Project Manager, Jeff is leading coordination efforts with key stakeholders, including ADOT, Gila County, Tonto National Forest, and utility companies. He is also responsible for overseeing the project team throughout the PA development and final design process. Relevance: Multi-disciplinary and extensive stakeholder coordination, preliminary and final design, clearances, and Tonto Nation Forest coordination.

Scottsdale, Scottsdale Road Project Assessment, Dixileta Drive to Carefree Highway, Scottsdale, AZ. Project Manager. Jeff is serving as the Project Manager for the Project Assessment (PA) and Stage II plans to evaluate roadway and drainage improvements along Scottsdale Road between Dixileta Dr and Carefree Highway, guiding Scottsdale toward final design. Comprehensive survey data will be collected throughout the corridor to evaluate drainage patterns and develop accurate modeling. Additionally, the intersections at Lone Mountain and Carefree Highway will be analyzed for traffic signal and roundabout options. Relevance: Multi-disciplinary and extensive stakeholder coordination, preliminary and final design.



JOSE AGUILAR, PE, ENV SP

TASK ORDER MANAGER

YRS OF EXPERIENCE (FIRM | TOTAL)

2 | 11

REGISTRATION(S)

Professional Engineer AZ #65974
Envision Sustainability Professional
Certification #6550
Licensed Drone Pilot; Part 107
Certification #3988309

EDUCATION

BS, Civil Engineering University of
Arizona

CORPORATE TITLE/ RESPONSIBILITIES

No corporate title or responsibilities

VALUE TO ADOT

- 11 Years of Experience
- Federally Funded Project Experience
- Knowledge of ADOT's processes, regulations, and best practices supports high-quality project execution and compliance
- Analytical skills help address challenges efficiently, leading to well-informed decisions that benefit ADOT
- Efficient technical experience providing construction phase support, including reviewing submittals and responding to RFIs

PROFILE SUMMARY

Jose is a civil engineer specializing in roadway design and aviation project management. He is an energetic problem solver passionate about smart and efficient design. His experience in the roadway industry includes a broad range of roadway projects, from two-lane rural highways to urban arterials, including the design and preparation of roadway and drainage improvements and design concept reports. As a civil designer, Jose gained valuable knowledge of federal, state, and local policies and procedures, and he is also well-versed in agency standards, details, specifications, and alternative delivery methods. Jose is proficient with various computer-aided design tools, including the latest MicroStation releases, AutoCAD Civil 3D, InRoads, OpenRoads, and AutoTurn.

PROFESSIONAL EXPERIENCE

ADOT, PDOC Holbrook B40 – Crestview Drive to Joy Nevin (2022-006.13), Holbrook, AZ. Project Engineer. Ardurra prepared a SL and PS&E for 1.1 miles of pavement rehabilitation along Business 40. The design team completed field review and ADA compliance report for 500+ features within the project limits. PS&E included mill and overlay, cold patch spot repairs, 28 ADA ramp replacements and longitudinal and transverse crack sealing. Ardurra is currently providing post-design services for ADOT.

ADOT, PDOC SR 85 Preservation, Elota Avenue to MP 60 (2022-006.13), Ajo, AZ. As Project Engineer, responsibilities included overseeing the pavement rehabilitation of SR-85 between Mileposts 42.40 and 60.00 in Pima County, ensuring compliance with project specifications and regulatory requirements. The role involved coordinating design and construction efforts for milling 1" of asphalt, overlaying with 2.5" of ¾" mix asphaltic concrete, and managing shoulder build-up improvements. Additionally, the Project Engineer facilitated the implementation of a taper mill for smooth transitions to the new roadway surface and supervised enhancements such as pavement markings, sidewalk ramp upgrades, guardrail improvements, box culvert extensions, and drainage upgrades. By collaborating with stakeholders, contractors, and regulatory agencies, the project was executed efficiently while maintaining quality and safety standards.

ADOT, PDOC, Globe Broad Street (2022-006.13), Globe, AZ. As Project Engineer, responsibilities included overseeing the rehabilitation design of pedestrian facilities along Broad Street in the Central Business District. This involved preparing plans, specifications, and estimates for improvements, including replacing 1,310 feet of sidewalk, reconstructing driveway approaches for ADA compliance, and upgrading six curb ramps, supported by a topographic survey. The project progressed through preliminary design (site visits, a Scoping Letter, 30% design plans, and environmental clearance), final design (construction documents and additional environmental clearance), and post-design services (contract modification before construction). Collaboration with ADOT's Project Management Group, Construction District, and other stakeholders was key to ensuring compliance with federal and state standards, as the project was fully administered by ADOT and funded through FHWA.

ADOT, PDOC, Verde Avenue Planning and Design, (2022-006.13), Jerome, AZ. As Project Engineer, responsibilities included optimizing roadway layout to improve traffic flow and safety by incorporating ADA-compliant sidewalks, pavement design, and appropriate lane widths. The role required coordinating with stakeholders to develop design solutions that balanced safety, accessibility, and efficiency while reviewing specifications, analyzing design alternatives, and



JOSE AGUILAR, PE, ENV SP | TASK ORDER MANAGE

ensuring integration within the 300-calendar-day service period. Through collaboration with agencies, contractors, and design teams, the Project Engineer helped deliver a roadway layout that met operational and safety goals while adhering to project timelines and regulatory requirements.

ADOT PDOC, Cement Plant Road, Clarkdale (2022-006.13), AZ. As Project Engineer, responsibilities included overseeing the engineering design to improve pedestrian and bicyclist accessibility along Cement Plant Road and Main Street, enhancing connectivity to Clarkdale-Jerome School and the Yavapai Apache Nation. The project involved designing an 8-foot-wide shared-use path, on-street bike lanes, a northbound right-turn lane, and curb and gutter improvements while ensuring compliance with safety and accessibility standards. Additional tasks included conducting a topographic survey, geotechnical investigations, pavement design, pedestrian curb ramps, and utility blue stake investigations. Collaboration with stakeholders, agencies, and design teams was essential to developing efficient, sustainable solutions that prioritized safety and maintained smooth traffic operations.

ADOT, Russel Road, MP 3.5 to MP 5.2 (2025-005), Globe, AZ. As Project Engineer, responsibilities included developing a PA for the realignment and reconstruction of Russell Road in Globe and improving transportation resiliency by relocating flood-damaged segments away from Russell Gulch. The project aimed to ensure reliable emergency access for over 2,000 residents and protect a key route to the Pinal Mountains. Key tasks included evaluating roadway improvements, flood mitigation strategies, right-of-way needs from Tonto National Forest, utility relocations, and culvert modifications to enhance drainage and stability. Collaboration with Gila County and federal agencies was essential for regulatory compliance and potential federal funding.

ADOT, Ina Road & I-10 Traffic Interchange: Marana, AZ. Civil designer for the final design of the I-10 / Ina Road TI improvement project. The traffic interchange reconfiguration which consists of elevating Ina Road over I-10 and the Union Pacific Railroad. In addition, there will be approximately 1.5 miles of Ina Road and 1.5 miles of I-10 reconstructed as a part of the project. The project consists of five bridges, extensive retaining walls, utility relocations, ROW acquisitions, landscaping, and hardscaping, four traffic signals, and extensive drainage improvements, including a major storm drain and a new half-mile drainage channel from I-10 that will outlet in the Santa Cruz River.

Tucson International Airport (TIA) As-Needed Civil Engineering Services: Tucson, AZ. Project Manager for the contract that supported landside and airfield projects. These included project management services for taxi lanes to provide access to airport tenants and design services for a proposed roundabout on Park Avenue to improve intersection flow and safety.

Grant & I-10 Casino Self Storage Sewer Plans: Tucson, AZ. Project manager who oversaw the design and coordination of a private sanitary sewer line with a pump station connecting to an existing Pima County sewer manhole for the Grant and I-10 Casino Self Storage Facility. Collaborated with stakeholders to develop plans that adhered to local codes and regulations and managed the preparation and submission of detailed design documents for Pima County Wastewater Management approval. Facilitated communication between engineers and county officials to address technical challenges and streamline the approval process. The result was a fully designed, code-compliant sewer system that meets the facility's operational needs and county requirements.



From: ADOT Business Engagement and Compliance Office <BECO@azdot.gov>

Sent: Friday, March 28, 2025 6:17 PM

To: mtnmarketing <mtnmarketing@ardurra.com>

Cc: ContractorCompliance@azdot.gov

Subject: RESENT: (COPY of) Bidders List for Ardurra Group, Inc.

Ardurra Group, Inc., AZUTRACS Number: [10953](#) has submitted a Bidder/Proposer list for **2025-011** on 03/28/2025 at 6:04 PM MST (UTC - 07:00).

Bidders/Proposers for this firm include:

Firm Name	AZUTRACS #	Expiration Date	Email Address	Phone Number
ATEK Engineering Consultants, LLC.	11395	08/31/2025	aortega@atekec.com	480-659-8065
Cooper Aerial	16537	03/27/2027	Phil@cooperaerial.com	602-678-5111
Del Sol Group, LLC	10261	04/06/2025	nsanders@groupdelsol.com	480-642-9845
Ethos Engineering, LLC	10363	06/04/2027	pgarza@ethosengineers.com	480-326-8487
Logan Simpson Design, Inc.	10647	03/25/2028	marketing@logansimpson.com	480-967-1343
Newton Environmental Consulting, LLC	10770	03/09/2026	angie@newtonec.com	602-332-9642
SouthWest Traffic Engineering, LLC	11071	07/01/2027	christy@swte.us	602-266-7983
SWCA Environmental Consultants	11139	08/02/2026	neely.smith@swca.com	602-274-3831
T2 UES, Inc.	18620	08/10/2025	jenelle.price@t2ue.com	702-990-7511
Tierra Right of Way Services, Ltd.	11188	11/13/2027	emily.pennock@tierra-row.com	385-419-2093
Western Technologies, Inc.	11288	06/21/2026	k.corradino@wt-us.com	602-437-3737
Y2K Engineering, LLC.	15921	03/24/2028	info@y2keng.com	602-837-4968

Unregistered Bidders:

Firm Name	Email Address	Phone Number
Motley Design Group LLC	rgraham@motleydesigngroup.com	602.254.5599



MD 616E
205 S 17th Ave.
Phoenix, AZ 85007

KATIE HOBBS
GOVERNOR

JENNIFER TOTH
DIRECTOR

Date: March 18, 2025

TO: ALL INTERESTED PARTIES

SUBJECT: AMENDMENT NUMBER 01

REFERENCE: REQUEST FOR QUALIFICATIONS
CONTRACT NUMBER: 2025-011
CONTRACT DESCRIPTION: Project Delivery On-Call

The following revision is made to the referenced Request for Qualifications (RFQ) package:

Page 20, Section V, Part C, SOQ Non-Technical Evaluation Criteria, 1.c., is revised as follows:

c) Demonstrate that the firm has experienced project managers to manage the tasks expected to be conducted under the contract. Demonstrate that the Task Order Project Managers have the experience and a record of past performance on projects of similar type and size, and that they have been responsive to clients in the past.
(Maximum 25 pts.)

The following questions have been asked in reference to the above RFQ package:

Question No. 1: The RFP specifies that the consultant must provide resumes for up to five Task Order Project Managers. Can you confirm whether these five Task Order Project Managers are the only task managers that can be utilized for the duration of the contract, or if additional task managers may be assigned as needed based on project requirements?

Answer No. 1: After the selection of firms in Tier 1, Task Order Project Managers may be added at the time of the task order request(s) at the discretion of ADOT, as applicable.

Question No. 2: Please confirm we can name multiple individuals in the SOQ without identifying them as key personnel (for example, in a team member qualifications table to respond to Section 3(a), Team Capability).

Answer No. 2: Yes, the SOQ may also identify other key members of the team, including other personnel (classifications identified in Attachment A of the Scope of Work) determined by the Consultant. These are personnel from both the prime Consultant and Subconsultants who the Consultant wishes to highlight in the submittal that may provide special expertise or perform critical task(s) on the project.

Question No. 3: Are we limited on the number of Key Personnel (with 2-page Resumes) that we can present within our SOQ?

Answer No. 3: Yes, there is a limit: one Project Principal, one Project (Contract) Manager, and up to five Task Order Project Managers, totaling no more than seven Key Personnel resumes. Please refer to page 5 paragraph 1 of the RFQ for the requirements.



Question No. 4: On the Consultant Services Matrix form, should we identify prime and subconsultants for the Key Technical Discipline category rows on the matrix, for example, the Roadway Design row, Survey & Mapping row, and Bridge Design row?

Answer No. 4: Yes

Question No. 5: Can you clarify the due date for the prequalification application (as specified on page 12 of the RFQ)? It currently says March 10th.

Answer No. 5: March 18, 2025

Question No. 6: Page 18 of the RFQ states “the SOQ must include for each discipline a matrix documenting...” is the intent to have one table documenting experience for all disciplines, or 10 separate tables (1 per discipline)? Page 19 (section 2a) requests one table.

Answer No. 6: Yes, SOQ must include one table that includes all disciplines.

Question No. 7: Do we need to include a resume for every team member named in the proposal?

Answer No. 7: No, refer to page 5 paragraph 1 of the RFQ for the requirements. Only resumes requested are for Key Personnel.

Question No. 8: Can we list a team member by name without them being a key personnel? (page 5, paragraph 2)

Answer No. 8: Yes, do not include resumes for other members of the team. Resumes included for other members of the team will count towards the overall page limit, regardless of the location these documents are placed in the SOQ.

Question No. 9: On Page 3, the Compensation Type is listed as Lump Sum per Task Order, with a non-negotiable fixed fee of 10. On Pages 5 and 6, there are several references to the ADOT Audit Requirements related to Unit Rate Reviews and Indirect Cost Rate Reviews (audit, analysis, submittals, etc.) and Labor Classification Lists. Our question is if the Task Orders to be issued under this contract are Lump Sum, why are Indirect cost rates and Labor Classifications needing to be reviewed?

Answer No. 9: This is to establish contract rates that will be used at the time of the request for services.

Question No. 10: We are submitting the following questions, regarding the Project Development On-Call RFQ: Please clarify that the only resume attachments allowed are for the Project Principal, Project (Contract) Manager, and up to five Task Order Project Managers.

Answer No. 10: Yes, that is correct.

Question No. 11: Are we able to recreate the Consultant Services Matrix, since some of the Technical Sub Areas may require the use of more than one subconsultant, and we may need to list multiple firm names within a single cell of the matrix?

Answer No. 11: No, use the Project Development On-Call Consultant Services Matrix.

Question No. 12: If we are allowed to recreate the Consultant Services Matrix, are we required to include the text explanation at the end of the matrix, on page 17?

Answer No. 12: Use the Project Development On-Call Consultant Services Matrix as supplied in the RFQ. Yes, you are required to include the text explanation at the end of the matrix.



Question No. 13: On page 12, under Item 11, Format Content, the total number of pages for the ADOT Project Development Consultant Services Matrix is “4”. If we list multiple subconsultants within several cells of the matrix, and the table extends beyond 4 pages, is that allowable?

Answer No. 13: No, as this will put you over your page limit.

Question No. 14: On page 20, Item 4, Past Performance, indicates that a maximum of 5 points may be deducted from the total score, based on consultants’ past performance on ADOT contracts. If a firm has not worked on ADOT contracts in the past, will this not apply?

Answer No. 14: This will not apply.

Question No. 15: On page 18, Item 1 a), is a table format necessary to show technical and institutional elements and associated tasks or can a different format be used?

Answer No. 15: Yes, present a table showing technical elements (e.g. memos, reports, plans), institutional elements (e.g. clearances, processes), and tasks associated with all key technical disciplines involved in project delivery that must be considered, completed, or addressed.

Question No. 16: Will questions be answered as they come in, prior to the March 24th deadline, or does ADOT plan on gathering all questions and then answering them all at once, after the 24th?

Answer No. 16: ADOT will address all questions as they come in and post the amendments accordingly.

Question No. 17: Could you please confirm whether the five additional key personnel to be listed by name and with resumes should be Task Order Project Managers, Key Discipline Leaders, or other specific roles? According to Section II (General Instructions) [6] and Section IV (SOQ Format Instructions) [7], we are required to include resumes for up to five Task Order Project Managers.

Answer No. 17: Please refer to Answer No. 3 above.

Question No. 18: Section V (SOQ Format and Evaluation Criteria) mentions Key Discipline Leaders as part of the evaluation criteria [20]. Can you confirm if these are the only additional key personnel we need to provide resumes for, or if there are other roles we should consider?

Answer No. 18: Key Discipline Leaders do not required resumes. The only resumes required are for Key Personnel which are listed in the above Answer No. 3.

Question No. 19: Do we need to pick only five of the key disciplines to have leads if the five key personnel are Key Discipline Leaders and not solely Task Order Managers?

Answer No. 19: There are no limit of key disciplines, however there are only up to five Key Personnel as Task Order Project Managers. Please refer to page 18, under SOQ Technical Evaluation.

Question No. 20: What is the definition of “Right of Way Cost Determination”? Does this include appraisal services or not?

Answer No. 20: Right of Way Cost determination includes the estimated cost to acquire a new right of way or the estimated cost of temporary construction easement needed for a project. This is intended to get a right of way estimate for determining total project cost. Reference Right of Way information in sections 471 and 472 of the Dictionary of Standardized Work Tasks or as noted in the task order scope of work. Yes, this includes appraisal services.



Question No. 21: We are having issues with the functionality of the CIP form. When we enter a subconsultant's name in the second half of the form, and select the appropriate "Type of Work", the form automatically fills in every cell below it with the same "Type of Work". The form will not allow us to enter a different "Type of Work" for each subconsultant. The same issue happens with the DBE drop-down. If we choose "Yes", all cells are filled in with "Yes". If we try changing it to "No", all cells are changed to "No". Is ADOT able to correct this form and issue a new one so that we are able to complete it accurately for our submittal?

Answer No. 21: ADOT ITG is currently working on these issues.

April R Conti-Farris

April R Conti-Farris
Contract Specialist
Engineering Consultants Section

AN OFFEROR MUST ACKNOWLEDGE RECEIPT OF THIS AMENDMENT BY SIGNING BELOW AND INCLUDING ALL PAGES OF THIS AMENDMENT IN THE SOQ SUBMITTAL. FAILURE TO DO SO SHALL RESULT IN REJECTION OF THE PROPOSAL.

Ardurra Group, Inc.

CONSULTANT NAME



SIGNATURE

* This amendment is not included in the total page count in the Statement of Qualification submittal.



MD 616E
205 S 17th Ave.
Phoenix, AZ 85007

KATIE HOBBS
GOVERNOR

JENNIFER TOTH
DIRECTOR

Date: March 26, 2025

TO: ALL INTERESTED PARTIES

SUBJECT: AMENDMENT NUMBER 02

REFERENCE: REQUEST FOR QUALIFICATIONS
CONTRACT NUMBER: 2025-011
CONTRACT DESCRIPTION: Project Development On-Call

The following revision is made to the referenced Request for Qualifications (RFQ) package:

Page 18 (20/58) Section V, Part C., SOQ Technical Evaluations, Paragraph 3, is revised as follows:

The SOQ must clearly document the team's project understanding and approach, relevant experience and qualifications, and firm capability applicable to each key discipline noted above and consistent with the Project Development On-Call-Consultant Services Matrix and contract objectives. SOQs must include for each discipline a table documenting (at a minimum) recent relevant experience, including project name, client name, consultant Project Manager and Key Discipline Leader name, prime Consultant, Subconsultant, construction cost estimate, brief description, and project location. The SOQ must identify the Team Members who will be in direct charge of each technical discipline of work performed as part of this contract.

The following questions have been asked in reference to the above Request for Qualifications package:

Question No. 1: On page 20/58 of the RFQ package, the SOQ Technical Evaluation states, "SOQs must include for each discipline a matrix documenting (at a minimum) recent relevant experience, including project name, client name, consultant Project Manager and Key Discipline Leader name, prime Consultant, Subconsultant, construction cost estimate, brief description, and project location. The SOQ must identify the Team Members who will be in direct charge of each technical discipline of work performed as part of this contract."

However, on page 21/58 the requirement changes per 2. a)stating, "The table should include a brief scope, the role the prime Consultant or Subconsultant performed, and indicate whether the delivery schedule was met for each project presented." Can you please clarify what is required to be included in the table?

Answer No. 1: On page 20/58 of the RFQ package under PART C. EVALUATION CRITERIA, SOQ Technical Evaluation, this part provides an overall/general description of the Technical Evaluation Criteria which should be presented in a table.

On page 20/58, 1a, page 21/58 1b, 2a and 3a, details and separate the distribution of the weighted score for each of the SOQ Technical Evaluation Criteria: Understanding and Approach, Team Experience and Qualifications and Team Capability. Required items to include in this table, prime Consultant's and Subconsultant's previous project experience. Identify relevant project experience associated with all the Key Technical Disciplines that are indicated as prime Consultant and/or Subconsultant in-house

resources in the “Consultant Services Matrix”. The table should include a brief scope, the role the prime Consultant or Subconsultant performed, and indicate whether the delivery schedule was met for each project presented.

Question No. 2: Would ADOT be willing to extend the current due date of April 1, 2025, by an additional 7-10 business days?

Answer No. 2: No.

Question No. 3: Amendment No. 1 indicated that ADOT ITG was working to fix the issues on the CIP form. Is there an anticipated timeframe for this to be completed so that we have sufficient time to complete the form for our submittal?

Answer No. 3: CIP Race Neutral Contract Form has been corrected on the website. Please use this link <https://azdot.gov/sites/default/files/2025-03/Consultant-Information-Pages-Race-Conscious-contract.pdf>. In the event anyone is still experiencing issues, please reach out to ECSSOQ@azdot.gov

Question No. 4: If our Contract Manager will also be proposed as a Task Manager, would their resume count towards one of our five task manager resumes or are we permitted to list and provide resumes for five additional Task Managers?

Answer No. 4: 2 resumes, plus up to 5 resumes, total not to exceed 7 resumes. The prime Consultant shall provide the resume for the Project Principal, Project (Contract) Manager, and up to five Task Order Project Managers as identified in their SOQ. Each resume shall be limited to two pages each, and shall demonstrate the individual's experience related to services outlined in this RFQ.

Question No. 5: Since we are not permitted to recreate the Project Development On-Call Consultant Services Matrix, and will need to abbreviate our subconsultants' names in order to fit them all into a single cell on the matrix, are we able to include a legend on one of the matrix pages or within the submittal, listing these abbreviations?

Answer No. 5: Yes and all submittals shall follow SECTION IV – SOQ FORMAT INSTRUCTIONS.

April R Conti-Farris

April R Conti-Farris
Contract Specialist
Engineering Consultants Section

AN OFFEROR MUST ACKNOWLEDGE RECEIPT OF THIS AMENDMENT BY SIGNING BELOW AND INCLUDING ALL PAGES OF THIS AMENDMENT IN THE SOQ SUBMITTAL. FAILURE TO DO SO SHALL RESULT IN REJECTION OF THE PROPOSAL.

Ardurra Group, Inc.

CONSULTANT NAME

SIGNATURE

* This amendment is not included in the total page count in the Statement of Qualification submittal.

CONSULTANT INFORMATION PAGES (CIP)

CONTRACT NO.: 2025-011

CONTACT PERSON: Karl Obergh, PE

E-MAIL ADDRESS: kobergh@ardurra.com

TITLE: Director

CONSULTANT FIRM: Ardurra Group, In c.

ADDRESS: 1001 N. Central Avenue, Suite 900

CITY, STATE, ZIP: Phoenix, AZ 85004

TELEPHONE: 602.263.1177

FAX NUMBER: N/A

UNIQUE ENTITY ID# (FROM SAM WEBSITE): KDJLNJ742G43

ADOT CERTIFIED DBE FIRM? (YES/NO) No

SUBCONSULTANT(S):	TYPE OF WORK	ADOT CERTIFIED DBE FIRM (YES/NO)
Cooper Aerial	Survey, Mapping, Aerial	No
Logan Simpson Design, Inc.	Landscape Architecture	No
ATEK Engineering Consultants, LLC.	Geotech, Material Testing, Subsurface	Yes
Ethos Engineering, LLC	Structural Engineer	Yes
Y2K Engineering, LLC.	Traffic Engineering/Design Services	Yes
Southwest Traffic Engineering	Traffic Engineering/Design Services	No
Del Sol Group, LLC	Environmental & Related Services	Yes
Tierra Right of Way Services, Ltd.	Right of Way and Related Services	No
Motley Design Group	Misc/Other Skills	No
SWCA Environmental Consultants	Environmental & Related Services	No
T2 UES, Inc.	Utilities & Related Services	No
Newton Environmental Consulting, LLC	Environmental & Related Services	Yes
Western Technologies, Inc.	Hazard Materials	No

NOTE: This page is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.

Revised 05/02/2024

**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	Cooper Aerial
CONTACT PERSON:	Phil Gershkovich
E-MAIL ADDRESS:	Phil@cooperaerial.com
TITLE:	President & Project Principal
ADDRESS:	11402 N Cave Creek Road
CITY, STATE ZIP:	Phoenix, Arizona 85020
TELEPHONE:	602.678.5111
FAX NUMBER:	602.678.5228
UNIQUE ENTITY ID #:	ZKNMTNFGM57

SUBCONSULTANT FIRM NAME:	Logan Simpson Design, Inc.
CONTACT PERSON:	Marshall Hayes
E-MAIL ADDRESS:	mhayes@logansimpson.com
TITLE:	NEPA Discipline Lead/Senior Environmental Planner
ADDRESS:	222 S Mill Avenue
	Suite 222
CITY, STATE ZIP:	Tempe, Arizona 85281
TELEPHONE:	480.967.1343
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	REB3J4JAMTE5

NOTE: Each Subconsultant listed in the SOQ must be included in the Subconsultant Table of the CIP. Add additional Subconsultant Table pages as necessary. The CIP is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.

*Please confirm that each Subconsultant listed is in the eCMS database. If a Subconsultant's name is not in the eCMS database, contact ECS at E2@azdot.gov and allow two (2) business days to have the Subconsultant added to eCMS. Click [Here](#) check the eCMS database or go to ECS Website.

**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	ATEK Engineering Consultants, LLC.
CONTACT PERSON:	Armando Ortega, PE
E-MAIL ADDRESS:	aortega@atekec.com
TITLE:	Principal
ADDRESS:	111 S. Weber Drive
	Suite 1
CITY, STATE ZIP:	Chandler, AZ 85226
TELEPHONE:	480.659.8065
FAX NUMBER:	480.656.9658
UNIQUE ENTITY ID #:	UM1HBJNBCML7

SUBCONSULTANT FIRM NAME:	Ethos Engineering, LLC
CONTACT PERSON:	Pancho Garza, PE
E-MAIL ADDRESS:	pgarza@ethosengineers.com
TITLE:	President/Sr. Geotechnical Engineer
ADDRESS:	9180 South Kyrene Road
	#104
CITY, STATE ZIP:	Tempe, Arizona 85284
TELEPHONE:	480.326.8487
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	QQGVC86EHVA5

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**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	Y2K Engineering, LLC.
CONTACT PERSON:	Lee-Yung Koprowski
E-MAIL ADDRESS:	ykoprowski@y2keng.com
TITLE:	Principal
ADDRESS:	1921 S Alma School Road
	Ste 204
CITY, STATE ZIP:	Mesa, Arizona 85210
TELEPHONE:	602.837.4968
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	KGJLCWX9JU56

SUBCONSULTANT FIRM NAME:	Southwest Traffic Engineering
CONTACT PERSON:	Andrew Smigielski
E-MAIL ADDRESS:	smig@swte.us
TITLE:	President
ADDRESS:	3838 N. Central Avenue
	Suite 1810
CITY, STATE ZIP:	Phoenix, Arizona 85012
TELEPHONE:	602.266.7983
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	JL6KC54GQK17

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**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	Del Sol Group, LLC
CONTACT PERSON:	Noelle Sanders
E-MAIL ADDRESS:	nsanders@groupdelsol.com
TITLE:	Environmental Director
ADDRESS:	319 E. Palm Lane
CITY, STATE ZIP:	Phoenix, Arizona 85004
TELEPHONE:	480.642.9845
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	HD1VLFJRJ4CD6

SUBCONSULTANT FIRM NAME:	Tierra Right of Way Services, Ltd.
CONTACT PERSON:	Leslie Findlay
E-MAIL ADDRESS:	lfindlay@tierra-row.com
TITLE:	Vice President
ADDRESS:	1575 E. River Road
	Suite 201
CITY, STATE ZIP:	Tucson, Arizona 85718
TELEPHONE:	800.887.0847
FAX NUMBER:	520.323.3326
UNIQUE ENTITY ID #:	HXM9CGRXH958

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**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	Motley Design Group LLC
CONTACT PERSON:	Robert Graham, AIA
E-MAIL ADDRESS:	rgraham@motleydesigngroup.com
TITLE:	Principal Architect
ADDRESS:	114 Grand Avenue
CITY, STATE ZIP:	Phoenix, AZ 85007
TELEPHONE:	602.254.5599
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	TZXKDLYSJYJ5

SUBCONSULTANT FIRM NAME:	SWCA Environmental Consultants
CONTACT PERSON:	Andrew Vorsanger
E-MAIL ADDRESS:	andrew.vorsanger@swca.com
TITLE:	Senior Cultural Resources Team Lead
ADDRESS:	20 East Thomas Road
	Suite 1700
CITY, STATE ZIP:	Phoenix, Arizona 85012
TELEPHONE:	602.274.3831
FAX NUMBER:	602.274.3958
UNIQUE ENTITY ID #:	KJ64MREJDNL1

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**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	T2 UES, Inc. d/b/a T2 Utility Engineers
CONTACT PERSON:	James Mueller, PE
E-MAIL ADDRESS:	James.Mueller@t2ue.com
TITLE:	Senior Project Manager
ADDRESS:	19621 N. 23rd Drive
	Suite 150
CITY, STATE ZIP:	Phoenix, AZ 85027
TELEPHONE:	602.977.8076
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	VXR7DY7K6DJ7

SUBCONSULTANT FIRM NAME:	Newton Environmental Consulting, LLC
CONTACT PERSON:	Angela Newton
E-MAIL ADDRESS:	angie@newtonec.com
TITLE:	Principal
ADDRESS:	9859 East Winchcomb Drive
CITY, STATE ZIP:	Scottsdale, Arizona 85260
TELEPHONE:	602.332.9642
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	UFLBN1TNC5H9

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SUBCONSULTANT(S) TABLE:

SUBCONSULTANT FIRM NAME:	Western Technologies, Inc.
CONTACT PERSON:	Suzette Numkena
E-MAIL ADDRESS:	snumkena@rma-western.com / snumkena@certerra.com
TITLE:	Environmental Project Manager
ADDRESS:	1805 West Drake Drive
CITY, STATE ZIP:	Tempe, Arizona 85283
TELEPHONE:	602.437.3737
FAX NUMBER:	N/A
UNIQUE ENTITY ID #:	CXHCBNFE8N15

SUBCONSULTANT FIRM NAME:	
CONTACT PERSON:	
E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP: TELEPHONE:	
FAX NUMBER:	
UNIQUE ENTITY ID #:	

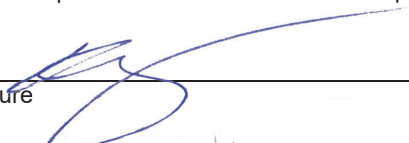
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DBE GOAL ASSURANCE/DECLARATION

This Contract is Race Conscious. The DBE goal percentage is set at 11.96 %

By signing below, and in order to submit an SOQ proposal and be considered to be awarded for this contract, in addition to all other pre-award requirement, the consultant/Proposer certifies that they will meet the established DBE goal or will make good faith efforts to meet the goal for the contract and that arrangements with certified DBEs have been made prior to SOQ and/or Cost Proposal submission. The proposer will meet the established DBE goal or will make good faith efforts to meet the goal on each Task Order assignment associated with the contract and that arrangements with certified DBEs have been made prior to SOQ and/or Task Order proposal submission.

Signature		April 1, 2025
		Date
Karl Obergh, PE		Director
Printed Name		Title

SOQ SUBMITTAL CHECKLIST

Place a check mark on the left side of the table indicating compliance with the following items. Only include the Supplemental Services Disclosure Form listed below if the form is requested in the Request for Qualifications:

✓	SOQ is within the page limit indicated in the RFQ
✓	SOQ is combined into one PDF Document no larger than 15 MB
✓	All Amendments are Included and Signed
✓	Introduction Letter (Including all required elements/statements)
✓	SOQ Proposal Formatted According to Requirements Listed in RFQ Section IV, #11.
✓	Correct SOQ Certification List (15 pt OR 9 pt) Signed and Dated by a Principal or Officer of the Firm
✓	Completed Consultant Information Pages (CIP)(Including listing DBE firms, if applicable)
✓	DBE Goal Assurance/Goal Declaration completed (located at the top of this page)
✓	All Subconsultants & Proposed Work Type listed on CIP (Including indicating DBE firms)
✓	Any Additional Required Documents (Specific to RFQ such as Resumes for all Key Personnel named)
✓	Commenting or User Rights Feature Enabled in SOQ PDF Document
N/A	Supplemental Services Disclosure Form (Required for <u>Supplemental Services</u> Type Contracts ONLY)

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