

Village of Orland Park

PROPOSAL

METER REPLACEMENT PROGRAM EVALUATION





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Village of Orland Park, Office of the Village Clerk
14700 South Ravinia Avenue
Orland Park, Illinois 60462

Arcadis U.S., Inc.
200 South Michigan
Avenue
Suite 2000
Chicago
Illinois 60604
Phone: 312 917 1000
Fax: 312 583 1914
www.arcadis.com

Subject:
Proposal for Meter Replacement Program Evaluation

Dear Sir or Madam,;

Success on the Village of Orland Park's Meter Replacement Project requires a consultant that is the Village's partner from project planning through installation of the advanced metering infrastructure (AMI) system. Arcadis presents a team with the experience and dedication to exceed the Village's goals. Arcadis has successfully completed numerous AMI procurements in the municipal marketplace, and we are eager to assist the Village in providing overall project advisement and quality control services through project completion. Key facets of our service offering include:

- **Our Knowledge of the Village.** Mr. Tony Smurlo is our proposed project principal. Tony has a long history of service to the Village and a proven track record for delivering successful projects for the Spur Two Water Main and a Water Utility Cybersecurity Assessment.
- **Experience AMI Practitioners.** Our proposed team has extensive experience in advanced metering infrastructure and have served in a variety of AMI industry roles with utility owners, AMI vendors, implementation companies, and consultants. We are in the process of delivering a very similar project for Greene Co., OH.
- **A Proven Approach That Meets the Village's Needs.** Arcadis has developed a proven approach and methodology for meter replacement project planning and implementation management that will deliver a successful meter replacement project to the Village. We are also offering alternatives that could further reduce your implementation costs.

Date:
March 7, 2022

Contact:
Tony Smurlo

Phone:
312.229.5455

Email:
Anthony.smurlo@arcadis.com

Our ref:
10534944

Arcadis acknowledges receipt of Addendum 1. We look forward to working with the Village on this important project. If you have any questions or require additional information, please contact me at 312.229.5455.

Sincerely,

Arcadis U.S., Inc.



Tony Smurlo, P.E., BCEE
Project Principal

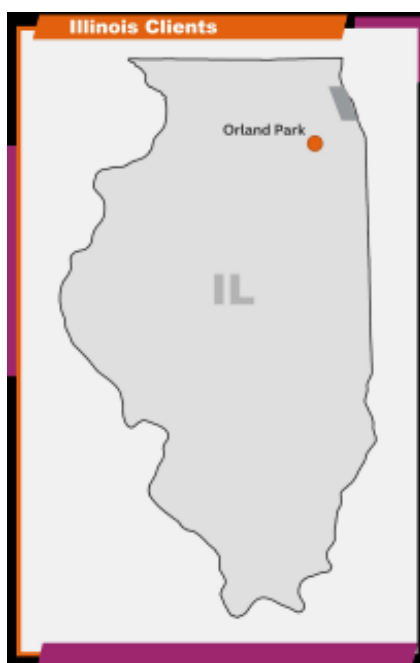
B OPERATING HISTORY

Arcadis is helping clients around the world build intelligent water systems of the future. We provide a full range of services needed to successfully implement your AMI project and exploit it to advance broader intelligent water and smart cities initiatives. Our staff possess deep technical and managerial experience in areas such as metering, customer service, engineering, information technology and business consulting. We use this knowledge to help clients successfully implement complex intelligent water and smart cities projects. Services we offer include:

- Program and project management
- Technology master planning—AMI, Intelligent Water, Smart Cities
- AMI planning and business case evaluations
- System selection and procurement consulting
- Quality assurance
- Organizational change management
- Engineering and technical design services
- Business process engineering and value management
- System optimization
- Intelligent utility data analytics, strategy, design and implementation
- Water conservation programming
- Distribution system engineering and optimization

Our Chicago office will be the main office for project management, coordination and development:

Chicago Office
 200 South Michigan Avenue,
 Suite 2000
 Chicago, Illinois 60604
 Phone: 312.917.1000



- Amtrak
- Aqua Illinois
- Chicago MWRD
- Chicago Park District
- Chicago Public Building Commission
- Chicago Transit Authority
- City of Department of Aviation
- City of Chicago Assets, Information and Services
- City of Chicago Department of Water Management
- City of Chicago Department of Transportation
- City of Evanston, IL
- City of Joliet, IL
- City of Rockford, IL
- Cook County, IL
- DuPage County, IL
- Frankfort School District 157 – C
- Illinois Capital Development Board
- Illinois Department of Transportation
- Illinois Tollway
- US Army Corps of Engineers – Chicago District
- City of Aurora, IL
- City of DeKalb, IL
- Metropolitan Pier and Exposition Authority (MPEA)
- Township High School District 113

Since the 1990's, **Arcadis has successfully worked together with various clients in Chicagoland area,** to fulfill our shared mission to improve quality of life in our community.

Subconsultants

SL-serco specializes in advanced metering solutions for water, gas and electric clients. They employ experts located across the U.S. who are implementing automatic meter reading (AMR) and AMI systems and have specific experience integrating AMI with a variety of utility billing system products. SL-serco's significant subject matter experience in advanced metering, from all corners of the industry, will provide the Village with the technical advice necessary for a successful project. Arcadis has a successful history working with SL serco, and our teams are currently engaged together on a number of active projects.

SL-serco
 2817 Anthony Lane South, #104
 St. Anthony, Minnesota 55418
 T: 612.782.9716



SECTION

C

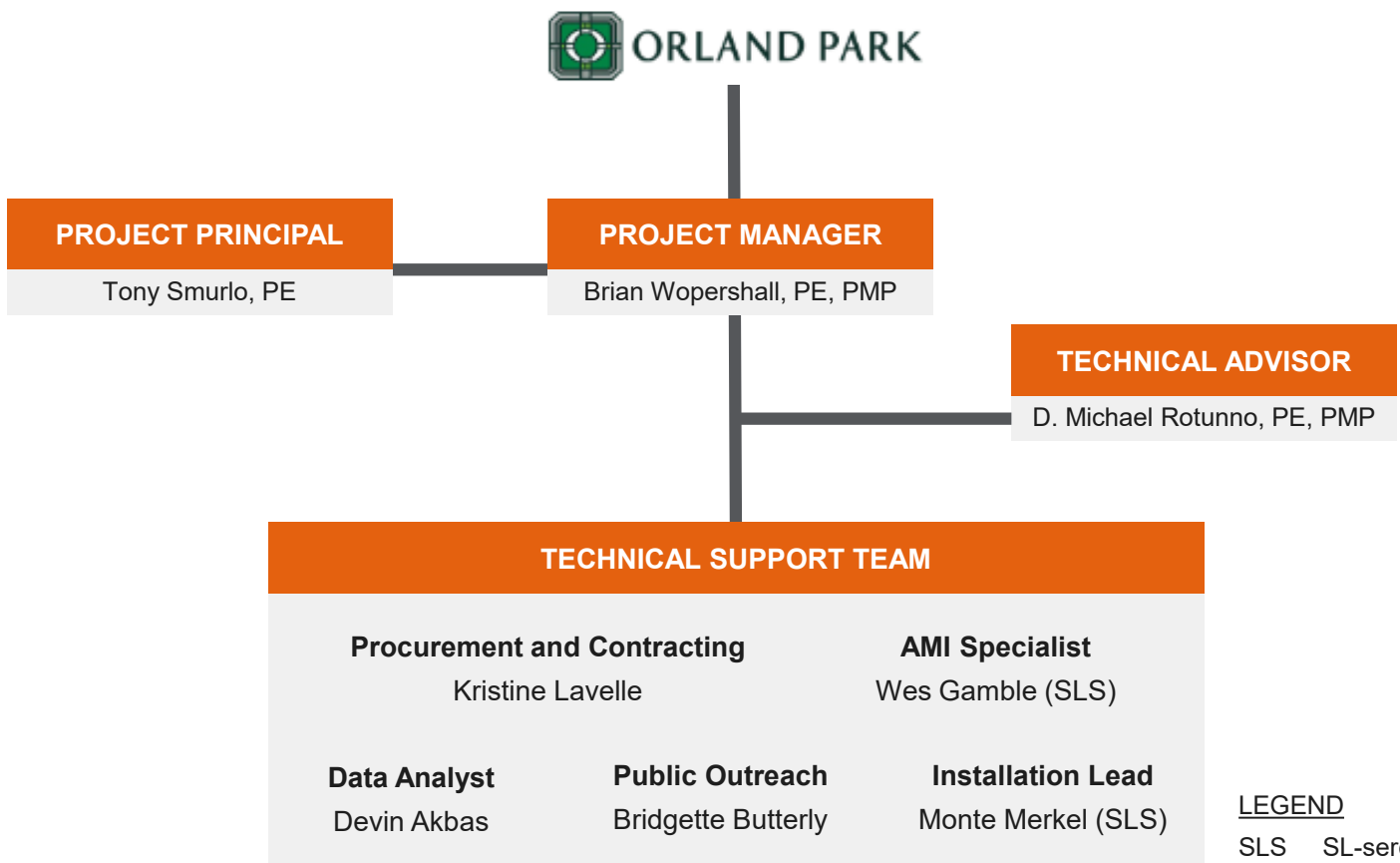
QUALIFICATIONS & EXPERIENCE OF FIRM & KEY TEAM MEMBERS

Arcadis has a strong tradition of providing water and wastewater engineering and construction services to municipalities throughout the U.S. for over 130 years. Working in partnership with our clients, we have achieved wide recognition for the consistent quality and innovation exhibited by our preliminary and detailed designs and the performance of our award-winning projects.

We understand the Village’s need to hire a firm as a “trusted advisor” who can guide the Village to a complete AMI implementation program, but also who understands the complete meter-to-cash process and the way in which AMI technology can deliver significant improvements.

Team Organization

Arcadis recognizes that the cornerstone of any successful project starts with the development of a sound management team. We have assembled an integrated team of technical and advisory consulting specialists to work with you on this project. These individuals have extensive experience with the various aspects required for successful project delivery. The following organizational chart presents the structure of our team followed by resumes for key team members and a brief qualifications summary for the remaining staff.





BRIAN WOPERSHALL, PE, PMP, GISP

Project Manager

Mr. Wopershall is responsible for leading large and complex information technology projects for water utilities nationally with an emphasis on AMI and asset management projects. He has been involved in AMI and meter-to-cash programs for the past 10 years, having managed the implementation and operations for AMI programs up to 465,000 endpoints.

Mr. Wopershall is an experienced utility professional with over 20 years of management and consulting experience and demonstrated experience leading large technology projects for the water industry.

PROJECT EXPERIENCE

AMI Implementation and Operations Manager, CWD, Cleveland, OH. Transformative project which upgraded approximately 425,000 water meters to AMI using the Itron Choice Connect Solution and integrating the AMI with Oracle Customer Care and Billing (CC&B). Served as integration manager and AMI application manager during the AMI deployment and system operation. Managed a team of up to 75 members made up of representatives from the utility, consultants, AMI vendor and subcontractors. Directed team regularly on issues related to contractor performance, contract terms, interfaces, customer complaints, installation and data collection quality, and IT system reliability.

Managed team responsible for providing up to 25,000 meter reads per day after transition from quarterly to monthly billing at completion of AMI implementation. Led project with senior staff, customer service, IT and public affairs departments on roll-out of customer portal (clevelandwater.com) and automated leak notification system to alert residential customers with continuous water consumption.

AMI Procurement Consultancy, Singapore Public Utilities Board, SG. Technical lead during the planning for the deployment of 300,000 smart water meters for the Public Utilities Board (PUB), Republic of Singapore. Met with Singapore PUB to discuss industry best practices and provide direction on the development of the specification for a vendor to install meters, manage the implementation, and perform operation and maintenance after deployment.

AMI Program Management, Louisville Water, Louisville, KY. Acted as owner's agent through selection of AMI solution. Co-led vendor interview and scoring process with client project manager, held preparation sessions with department leads and coordinated Q&A sessions between Louisville Water and vendors. Held workshops to develop as-is and to-be work processes leveraging the benefits of Itron Riva AMI. Met with customer service, meters, engineering, IT and training departments to outline employee AMI training requirements. Collaborated with client on test plan to make sure requirements are met in system integration with Oracle CC&B and Work and Asset Management (WAM).

AMI Program Management, Columbia Water, Columbia, SC. Developed and helped execute test plan for integration between Badger Beacon cellular AMI system and Columbia's Banner billing system. Collaborated with client to design a two-phased validation of project workflows through an alpha phase with closely scrutinized installations, followed by a beta phase of 100 installations. Facilitated transition into main implementation phase of 500 installs per day.



AVAILABILITY
50%



EDUCATION
BS Civil Engineering
Case Western Reserve University 1997
MS Civil Engineering and City Planning- Focus on Information Systems Georgia Institute of Technology 1999



YEARS OF EXPERIENCE
20



REGISTRATIONS
Professional Engineer – OH
Registered GIS Professional (GISP)
Project Management Professional (PMP)
AWWA Customer Service Program Certification

ASSOCIATIONS
American Water Works Association



ANTHONY SMURLO, PE, BCEE, CDT

Project Principal

Mr. Smurlo has more than 21 years of experience with municipal and industrial water and wastewater conveyance, pumping and treatment facilities. His specialty is working with subject matter experts and equipment representatives to assess existing conditions and develop a basis of design as well as leading a multi-disciplined engineering team through design, permitting, bidding and construction oversight / administration. Mr. Smurlo has a strong foundation of treatment, pump, chemical feed system and hydraulics experience. This includes his recent experience successfully working with the Village of Orland Park.

PROJECT EXPERIENCE

Spur Two Transmission Main, Village of Orland Park, Orland Park, IL. Project Manager led the civil design while managing the design team. As part of the Oak Lawn Regional Water System, project consists of 2.1 miles of 30-inch transmission main, a new intake structure for reservoir filling, new sanitary and storm sewers and piping modifications on the existing Main Pump Station site. Coordinated with multiple authorities having jurisdiction including Illinois Environmental Protection Agency (IEPA), Metropolitan Water Reclamation District (MWRD), BP, Buckeye Pipeline, Cook County, Cook County Department of Transportation, ComEd, US Army Corps of Engineers, and the Illinois Historic Preservation Agency.

Cybersecurity Evaluation, Village of Orland Park, Orland Park, IL. Project Manager led the evaluation of the water system's cybersecurity as required by the America's Water Infrastructure Act of 2018. Reviewed the Village's recommendations for physical security improvements and provided opinions of probable cost for all improvements.

Oakton Water Supply, City of Evanston, Evanston, IL. As Project Manager, managed the design team for a new 30-inch transmission main to serve a new customer. Project consists of 0.8 miles of transmission main, a metering vault, a bulk water fill station and roadway reconfiguration and resurfacing. The metering vault includes HVAC, lighting and sump pumps to keep the structure free of water and provide a workable space for City staff.

Generation System Modifications, DuPage Water Commission, Elmhurst, IL. As Project Manager, led the civil design while managing the design team. Project consisted of preliminary and final design to relocate a generator into an expanded building. The existing building housing four generators was expanded to permanently install a portable generator. HVAC improvements included wall louvers for the radiators, silencers for the exhaust and a plenum around the perimeter with penthouses on the roof for ventilation and unit replacements in office and IT areas for better temperature and humidity control. Provided new 120V feeds and floor drains for new equipment. Evaluated LEED versus Envision Rating System for sustainable design.

Regional Water System Improvements, Morton Grove Niles Water Commission, Chicago, IL. As Design Team Lead, led the process mechanical and civil design while managing the design team. Project consisted of two 14.2-mgd pump stations and a 7-million-gallon standpipe. Preliminary and final engineering for the project was completed in 10 months. Tier 4 emergency generators provided backup power at each site. One pump station was designed to blend into the existing neighborhood and portions of the building were utilized for restrooms and mechanical equipment for a splash pad park.

Boiler Replacement, Pepperidge Farm, Downers Grove, IL. As Project Engineer, assisted in the replacement of three boilers and a reverse osmosis system used in the baking process. Design options included replacing the boilers in place with a specific sequence to keep the plant in operation or installing a prefabricated building that included the new boilers on a skid.



AVAILABILITY
25%



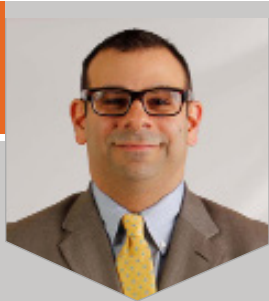
EDUCATION
BS, Civil Engineering,
University of
Cincinnati, 1999



**YEARS OF
EXPERIENCE**
21



REGISTRATIONS
Professional Engineer
- IL, MI, OH
Board Certified
Environmental
Engineer, American
Academy of
Environmental
Engineers
Construction
Documents
Technologist,
Construction
Specification
Institute



D. MICHAEL ROTUNNO, PE, PMP

Technical Advisor

With Arcadis, Mr. Rotunno is responsible for leading large and complex information technology projects for water utilities nationally and serves as the discipline leader for the North America Technology and Information practice. He has been involved in AMI and meter-to-cash programs for the past 10 years, having filled leadership roles in AMI programs ranging from 5,000 to over 1.4 million endpoints.

Prior to joining Arcadis, Michael served as the Assistant Commission of IT for the City of Cleveland, Division of Water (CWD), one of the largest water utilities in the U.S. He had overall responsibility for IT strategy and operations of the \$240-million regional water utility serving 1.5 million customers.

PROJECT EXPERIENCE

Meter Replacement and AMI Program, Greene County Sanitary Engineering Department , OH. Currently serving as the project manager for GCSED'S meter replacement and AMI project.

Advanced Metering Infrastructure Project Management, Washington Suburban Sanitary Commission (WSSC), Laurel, MD. Served as the project manager for WSSC's AMI implementation project that supplies water and sewer service to 485,000 customers located in Montgomery and Prince George's Counties, Maryland.

Meter Automation and Replacement Program, CWD, Cleveland, OH. Served as technical director for CWD's Clear Reads Program, a major initiative to modernize its water meters, deploy AMI and improve meter reading process. The program was initiated in spring of 2008, and Mr. Rotunno served as part of the project leadership team until his departure from CWD in early 2012.

AMI Planning and Selection, St. Marys, OH. Arcadis assisted the City of St. Marys with the planning and procurement for a new AMI system capable of reading the City's 5,000 water and electric meters. Mr. Rotunno served as the technical lead for this project.

Water Meter Engineering Services, Youngstown, OH. Arcadis assisted the City of Youngstown, OH with an upgrade to their 55,000 water meters by providing water meter engineering services. Served as the project manager for this effort.

Comprehensive Water Audit and Revenue Reporting Improvements, City of Columbus, OH. For the City of Columbus, managed work to design and implement a non-revenue water consumption reporting system.

Meter-to-Cash Improvements, City of South Bend, IN. Project manager for an evaluation of current state business processes, technologies and associated software supporting their utility meter-to-cash functions. Served as the project director for the implementation of a new utility billing system based on the enQuesta software product.

Water Meter Study, City of Phoenix, AZ. Project manager for effort to review meter-to-cash performance and metering accuracy.

CIS Conversion, Southeast Morris County Municipal Utility Authority, Cedar Knolls, NJ. Project manager for the implementation of a new utility billing and customer information system.



AVAILABILITY
25%



EDUCATION
BS Civil Engineering
Pennsylvania State
University 1997
MBA Business
Administration
Case Western
Reserve
University 2001



**YEARS OF
EXPERIENCE**
23



REGISTRATIONS
Professional
Engineer - OH
Project Management
Professional,
Project
Management
Institute, 2017
Lean Sensei,
Villanova
University, 2013

ASSOCIATIONS
Project Management
Institute



KRISTINE LAVELLE

Procurement and Contracting

Kristy Lavelle is an experienced professional with over 18 years in the utility industry. Her career is comprised of a series of roles ranging from technical to leadership, all the while working with a wide range of utilities serving water, wastewater, electric and/or gas. These utilities include municipalities and other public entities, cooperatives, and investor owned. Kristy particularly specializes in problem resolution of difficult situations. Highlights of her experience include:

- Advanced Metering Infrastructure
- Customer Experience
- Technical Support
- Business and Strategic Planning
- Technology Implementation
- Meter Installation Services
- Influential Leadership
- Contract Negotiation
- Project and Program Management
- Business Process Improvement
- Field Investigation
- Warranty Management

With Arcadis, Mrs. Lavelle is responsible for executing on various projects for utilities nationally and serves as an AMI expert for the Business Advisory practice.

PROJECT EXPERIENCE

AMI Endpoint Upgrade, DC Water, Washington, DC. Executive Liaison and Technical Lead responsible for troubleshooting major issues, resolving those issues, and ensuring the remainder of the upgrade. Services include field investigations, executive-level meetings, training, collaboration lead of vendor and utility, software troubleshooting, software rollout execution and support.

AMI Implementation, Guadalupe Valley Electric Cooperative, Gonzales, TX. Account Lead and Program Manager for the implementation of AMI network and endpoints. The goal is to ensure successful implementation of the AMI network as well as endpoint installation. This requires coordination with all parties, consistent communication, transparency of any issue identified, and problem resolution planning in accordance with project deliverables.

AMI Network Upgrade, New York City Department of Protection, NY. Strategic Account Lead and Technical Liaison responsible for supporting NYC DEP in the upgrade of their network communications backhaul for over 400 data collectors. Efforts include coordination of custom design changes, coordination and delivery of propagation models to assess network coverage throughout the project, operational planning of equipment delivery in accordance with construction schedule, and coordination with subcontracts as necessary to ensure project on-time completion.



AVAILABILITY
25%



EDUCATION
BS Electrical Engineering
Southern Illinois University at Edwardsville



YEARS OF EXPERIENCE
18



REGISTRATIONS
Customer Experience
– Missouri State University, 2021



WESLEY GAMBLE (SL-serco) AMI Specialist

Mr. Gamble is an expert in radio frequency communications with an emphasis on applications in AMI and related IoT networks. He has been active in the utility industry since 2005, working on a utility meter network development and innovation. He provides knowledge of all available AMI network technologies and brings extensive AMI deployment quality control experience.

New innovations, technology application and maximizing IT systems and resources are staples in Mr. Gamble's role with utilities. He has proven his ability to manage projects across utilities of varying size, and his utility IT and metering experience contributes to this success. He is located in SL-serco's Winchester, TN satellite office.

PROJECT EXPERIENCE

Washington Suburban Sanitary Authority, MD. Lead technical analyst for 500,000 meters, performed advanced metering education sessions, authored needs analysis report, and performed procurement and deployment planning.

City of Tempe, AZ. Senior project manager and consultant for project that included 45,000 meters. Performed advanced metering education sessions; planned advanced metering system integrations; created project requirements; developed request document and evaluated vendor responses; facilitated contract negotiation; AMI deployment planning; AMI pilot deployment project management and performance testing; and AMI full deployment project management and performance testing.

City of Mesa, AZ. Consultant and senior project manager that facilitated advanced metering vendor meetings; documented advanced metering system integration and data flow map; facilitated project requirements creation; developed request document and evaluated vendor responses; facilitated contract negotiation; pilot deployment performance testing; and project management. Project consisted of 153,000 water meters.

City of San Diego, CA. Senior project manager consultant for 460,000 meters. Project included AMI deployment planning and AMI pilot deployment project management and performance testing.

City of Huntsville, AL. Senior project manager for AMI deployment planning; AMI pilot deployment project management and performance testing; and conservation voltage reduction pilot project management. Project included 189,000 electric, 99,000 water and 55,000 gas meters.

Fort Worth Water Department, TX. Consulted on IT system purchases and integrations and business process development; developed request document and evaluated vendor responses; and facilitated contract negotiation. Project included 240,000 meters.

Marshall Municipal Utilities, MN. Worked as consultant. Developed AMI and direct load control feasibility study; evaluated vendor responses to RFB; successfully navigated the utility and its selected vendor through contract negotiation; and provided AMI deployment planning and consulting. Project included 5,000 water and 6,500 electric meters.



AVAILABILITY
20%



YEARS OF
EXPERIENCE
15



ASSOCIATIONS
American Water
Works Association



DEVIN AKBAS

Data Analyst

Mr. Akbas is a Management Consultant with experience helping clients optimize business practices by leveraging technology, and experience with advanced metering infrastructure implementation, business intelligence, data visualization and analysis, process modeling, and business case development.

PROJECT EXPERIENCE

Utility Billing Analysis & Action Plan, North Texas Municipal Water District, Wylie, TX. Business analyst for the evaluation of current wholesale utility practices for meter reading, billing, and data management. Current metering and billing data were evaluated using Power BI to provide actionable insights. Responsibilities included an analysis of the existing billing meter inventory, modeling of the current billing process, water consumption data preparation and visualization, and leveraging the data analysis to suggest future business process improvements.

Meter Replacement and AMI, Puerto Rico Aqueduct and Sewer Authority, (PRASA), Miami, FL. Arcadis was retained to procure a vendor for an island-wide meter replacement program and implementation of an advanced metering infrastructure. Responsible for analysis and visualization of current meter infrastructure. Created business intelligence dashboard to visualize the current population of 1.4 million water meters. Conducted metering technology research to prepare requirements for an upcoming Request for Proposals.

Meter Replacement Program Management, Greene County Sanitary Engineering Department, Greene County, OH. Arcadis is managing a meter replacement program and Advanced Metering Infrastructure implementation. Responsibilities include quality assurance planning, designing and tracking software test cases, and managing contractor submittal documentation.

Norfolk Utilities AMI, City of Norfolk, Norfolk, VA. Arcadis was retained to design an implementation plan for an Advanced Metering Infrastructure system. Responsibilities include an in depth analysis of current metering infrastructure and quantification of the cost of system investment in a business case evaluation.



AVAILABILITY
25%



EDUCATION
BS Mathematics Pace University, 2020



YEARS OF EXPERIENCE
2



MONTE MERKEL, PMP (SL-Serco)

Installation Lead

Mr. Merkel brings broad AMI/AMR project experience and certifications to the team. He is an experienced standards manager and strong operations professional with a demonstrated history of working in the AMI/AMR industry. Accomplished in analytical skills, smart grid, databases, management and software installation, his value to this project will be to provide field and office installation QA/QC. Monte is located in Evansville, IN.

PROJECT EXPERIENCE

City of Trinidad, CO. Delivery standards manager and consultant for project that included 4,500 water meters, 4,300 electric meters and 4,300 gas retrofits. Project included national municipal utility project oversight; project management support; procurement and deployment planning; and defined and implemented daily billing system data synchronizations with data collection systems.

City of Evansville, IN. Delivery standards manager for project that included 65,000 water meters. Project included national municipal utility project oversight; project management support; develop and implement data QC procedures; and project management training for operations team.

City of Martinsville, VA. Delivery standards manager for project that included 7,000 water meters. Project included national municipal utility project oversight; project management support; AMI full deployment project management and performance testing; project management training for operations team.



AVAILABILITY
50%



YEARS OF
EXPERIENCE
14



BRIDGET BUTTERLY

Public Outreach

Ms. Butterly has 20 years of experience working in the environmental consulting field as a scientist and communications specialist. She supports project teams with technical writing and editing, development of technical presentations and community outreach strategy and management. She is an expert in engaging residential stakeholders and supports many project teams during the community engagement process, including developing communications strategy; contacting and sharing information with residents through phone calls, door knocks, community meetings and more; preparing materials to share complex technical information; coordinating environmental sampling with homeowners; and communicating data to property owners and the wider community.

PROJECT EXPERIENCE

Community Outreach Support, City of South Bend, IN. Provided community outreach support for city-wide education campaign on lead in drinking water. Worked with technical experts and City officials to develop materials designed to educate the community about the dangers of lead exposure, the City procedures in place to provide safe drinking water, other sources of lead and steps community members can take to further protect themselves.

Community Outreach Support, Metropolitan Water Reclamation District of Chicago, IL. Ms. Butterly provided community outreach strategy and implementation support for a storm water master plan. The project was one of five in the region evaluating the causes and potential solutions to overland flooding resulting from large storm events. A key component of the project was engaging the community to collect data on the location, frequency, nature of flooding and building interest and momentum for implementing solutions.



AVAILABILITY
10%



EDUCATION
BS Biology Marquette
University 1999



YEARS OF
EXPERIENCE
20

D TECHNICAL APPROACH

PROJECT UNDERSTANDING

Arcadis understands that the Village is soliciting proposals for the services of a full-service engineering and project management team to serve as the Village’s Owner’s Agent for the implementation of a complete AMI system.

Arcadis knows that the Village is already using AMI, but desires an evaluation of the existing system, recommendations for changes, upgrades and improvements, and assistance to implement these improvements.

Arcadis offers engineering and project management expertise and provides everything needed to plan, design, configure, integrate and deploy a successful AMI project. In developing the AMI strategy and implementing the project, Arcadis will work as one integrated team with the Village, our subcontracted team partners, the AMI vendor and the installation teams. We will be your strategic partner, beyond merely a technical services provider, by helping identify,

develop and implement the best possible strategy for project success. Below is our detailed approach to achieving the Village’s objectives.

PROJECT APPROACH

Our approach has been constructed based our proven methodology for meter replacement and AMI projects, coupled with the Arcadis team’s experience with similar customer projects and our successful history working with the Village. Our approach is rooted solidly in Project Management Institute’s (PMI) project management body of knowledge, which we have built-out to reflect the unique needs of a customer service transformation and AMI project. Illustrated in Figure 1-1, our approach details the major project management activities along with a summary of the activities of the AMI vendor team. Our proposed approach achieves all of the scope of work items requested by the City in the RFP.

Figure 1 – Major Project Management Activities

	Phase I Planning	Phase II Procurement	Phase III Implementation	Phase IV Closure
Arcadis	1.1 Project Initiation (Preparation)	2.1 Procurement – AMI	3.1 Software and Interface QA	4.1 Final Transition Report
	1.2 Need Assessment	2.2 Procurement – Installation	3.2 Installation Quality Control	
		2.3 Customer Communications	3.3 Customer Communications	
	Project Management and Implementation Coordination			
AMI Vendor & Installer		Vendor On Boarding	Software Installation	Close-Out
		Deployment Planning	Integration	
			Training	
			Endpoint Installation	

Project Management

The Arcadis team, led by their project manager Brian Wopershall, will perform on-going implementation coordination, framed within the project management, monitoring, and control activities for the duration of the AMR/AMI implementation project. The following activities will be performed on an on-going basis and adjusted as required based on the project phase.

Integrated Schedule Management. Develop, monitor, and maintain in integrated project schedule using MS Project or an equivalent schedule management package.

Scope Management and Change Control. Manage overall project scope and identify to the Village when a task is outside of scope. Institute and manage change management processes. This effort will include coordinating with the selected water meter AMR/AMI system contractor to prepare an implementation plan for the selected system.

Cost and Earned Value Management. Manage the financial performance of all project elements, including evaluation of earned value as needed to support payments to the system vendors and installation services firms, based on the performance criteria defined in the contract documents.

Project Human Resources. Monitor project staffing needs, team performance, and on-boarding processes. This activity will include working with the Village to develop an AMR/AMI system phasing strategy and staffing plan, which will ensure proper transfer of responsibilities over to the Village staff at the right time.

Project Risk Management. Implement the risk management processes and provide continued update to the risk register and controlling processes, including coordination with meter installers, network solution implementors, and software and hardware contractors to resolve system implementation issues.

Maintain Project Documentation. Publish and maintain all project documentation. This includes producing minutes at all meetings, maintaining all documentation of decisions, tracking of issues, and management of other project-related documentation and deliverables. Deliverables will be electronically deposited in a central repository for the capture and re-use of intellectual assets. The project manager will manage all deliverable review and approval processes, and will obtain sign-off from the Village on all project deliverables.

Conduct Status Meetings and Develop Status Reports. Arcadis will conduct regular project status meetings with project team members from the Village, the project management team, the AMR/AMI vendor, and other stakeholders as needed. Meetings will be accompanied by

regular project status reports that will summarize work performed, upcoming work, schedule, risk, action items, and budget performance.

Quality Control Planning. Arcadis will develop a detailed quality control plan that will account for all require quality control and acceptance testing activities for the project. In general, we expect that the plan will address the software, integration, meter installation, and AMR/AMI endpoint deployment.

Phase 1 – Planning and Procurement

1.1 – Project Initiation

We will facilitate a kickoff meeting and introductory workshop with the Village’s staff, including the project sponsors, key staff, subject matter experts, and other stakeholders, as appropriate, to review the project tasks and schedule, as well as the overall project objectives. The kick-off meeting will help orient all participants on the project approach, gather their expectations and identify the areas of input that will be required for project success.

The Arcadis team stays abreast of all current developments in the AMI marketplace and remains in contact with the major AMI vendors on a regular basis. As part of the kick-off meeting we will provide an educational presentation to Village staff about the current state of the water meter AMR/AMI market. Arcadis’ AMI technical experts will develop a summary of the AMI Vendors in the market and an overview of firms that are providing meter replacement project using performance based contracting mechanisms. This summary will include, but not limited to the following details:

- Overview of their solution and capabilities
- Company size and revenue
- Key differentiators

The presentation will also describe the advantage and challenges of converting to an AMR/AMI, various contracting mechanisms commonly used and their advantages and disadvantages, and major considerations for the project.

Brian Wopershall excels at thoughtful project execution and will lead the Village through a successful project, from initiation, procurement, execution, and implementation of AMI.

Deliverables: Project Charter and Kick-Off Meeting

1.2 – Needs Assessment

Arcadis views the Needs Assessment as a critical component of any project, as the results will form the basis for project planning and the implementation sequence for the remainder of the project. Figure 2 summarizes our approach to the development of a Needs Assessment, which we have successfully used in multiple location to establish the foundation for a successful AMR/AMI project. We divide the needs assessment into the following four key project elements, each led by a subject matter expert from the Arcadis team:

- Meters and Sensors
- Data Collection Technology
- Software and Integration
- People and Processes

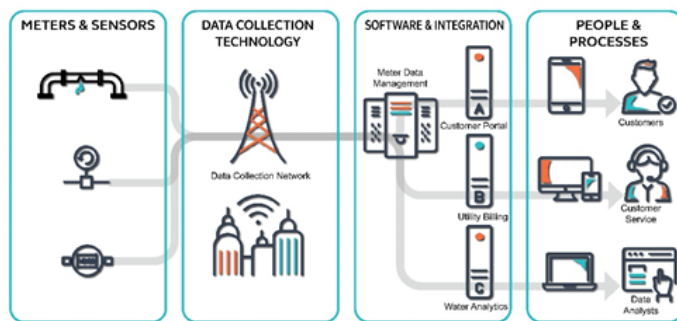


Figure 2 – Needs Assessment Approach

The needs assessment will address all the elements described by the Village. Our team will identify and document business and technical requirements taking into consideration current and future needs, industry trends, and the financial and people aspects of the proposed solution. The analysis will seek the optimal alternative and will involve identification of process improvements, which will be documented to support the implementation phase of the project.

Upon given the notice to proceed, Arcadis will immediately prepare a Request for Information (RFI), which will catalog the information and documentation that Arcadis will review in preparation for subsequent project tasks. Examples of the types of information we will request include:

- Exports of meter inventory, water consumption, and billing data
- Meter testing results from past testing efforts
- Meter specifications, standard details, and/or recent procurement information
- Meter sizing and installation procedures
- Meter reading, maintenance, and billing procedures
- Existing operational cost information

- Existing water rates and wholesale water agreements

After initiating the project, Arcadis will conduct a series of interviews with key project stakeholders and subject matter experts. The project team interviews will be cross-function and will include participation from staff responsible for IT, finance, customer service, billing, meter operations, and engineering.

The results of the needs assessment will provide a primary input into other project activities, and will define the functional and technical requirements for the AMR/AMI system that will be included in the procurement documents.

Meters

The Arcadis team will evaluate the current state of the Village’s water meters to determine the most advantageous approach to modernizing the Village’s water meter population based on both technical and economic considerations. We will collect, organize, and evaluate the Village’s exiting water meter population using our proven meter replacement planning analytical approach. Using our existing meter replacement planning analysis tools developed in Microsoft PowerBI, we will:

- Summarize water meter inventory data based on key parameters such as meter manufacturer, size, age, location, and cumulative flow.
- Estimate current water meter accuracies, using readily available Village data and published meter accuracy test literature.
- Determine the total value of water lost due to meter inaccuracy based on existing water rates for the Village. This information is used during the roadmap development to compute the economic opportunity of replacement for the various meter sizes based on cumulative flow through the water meter. The cost of the new replacement meter and the labor for removal and replacement of the existing meter are keys to the economic optimum. When the value of lost water and meter replacement cost are equivalent at a specific cumulative water use, the meter should be replaced.



Figure 3 – Arcadis Meter Replacement Planning Analysis Tool

Data Collection Technology

The AMR/AMI marketplace is rapidly evolving, resulting in a wide range of meter reading technology architecture considerations. The Arcadis team will evaluate the key areas of technology and security, including:

- Telecommunication methods and protocols used, including evaluation of cellular and open-standards networks
- The data collector type and design
- The backhaul methods used
- Considerations for cloud-based architectures
- Technology standards
- Mounting and connection options for meters, endpoints, repeaters, and data collectors
- Requirements for disaster recovery, backup, and business continuity
- Battery life and warranty provisions
- Availability of advanced sensors, including leak detection and water quality sensors
- Review of Village owned assets, which could be useful for siting AMI equipment.

Arcadis will review existing security, hardware, and software standards across the Village with the objective of evaluating existing preferred vendor list for equipment. Arcadis will assess AMR/AMI network alternatives and provide recommendations for suitability to the Village's standards and comparison to best practices.

Arcadis will assess the Village's cyber security risk management approach and will provide recommendations regarding its robustness, scalability, functionality, and overall alignment with industry best practices as it relates to the system impacted by the project.

Finally, Arcadis will evaluate the Village's existing network support model and provide guidance on how to support the AMI infrastructure long-term, including recommended organizational models, skills, training, and certification requirements.

Software and Integration

For the AMI system to be fully functional it will need to be successfully integrated with the Village's existing applications and business processes. We will determine the integration needs that will be brought about by the AMR/AMI system and will coordinate those needs as required. Specific areas that we will evaluate include:

- Determine the need for a meter data management (MDM) system.
- Determine how Village will use existing data and systems to support the meter installation project.
- Identify the future needed AMR/AMI interfaces and the overall integration architecture that will be needed to get the most from the AMR/AMI system.

- Document the current and planned use of mobile computing and determine if change or expansion of the use of mobile computing will be required by the AMR/AMI project.
- Evaluate the need to integrate with the Village's asset management application to streamline work orders to support field customer support and meter replacement efforts, and recommend the timing of such integration.
- Understand the current tools being used or planned to support data analytics and reporting, including tools for managing nonrevenue water.
- Determine the process and technology integration requirements for the AMR/AMI related to other on-going distribution system optimization efforts, including the hydraulic model and water quality monitoring systems.
- Evaluate available options for the field deployment management system, considering available technologies and commercially available systems.

People and Processes

The AMR/AMI system will bring about significant changes to the meter reading, meter maintenance, operations, billing, non-revenue water management, and analytical business processes at the Village. As part of the needs assessment, the Arcadis team will evaluate the business processes improvement opportunities that the AMR/AMI will bring about and then use this information to support other project planning activities such as procurement and change management.

Based on our past work with similar organizations, we believe that the following process improvements can be attained with the new AMR/AMI system, and we will work to expand this list as part of the business process needs assessment:

- Meter reading processes, including the process to perform final reads and move-in/move out actions, will significantly improve with the new AMR/AMI.
- Customer service processes related to account servicing and response to billing inquiries will improve significantly, as agents will have significantly more usable meter reading information at their disposal.
- The AMR/AMI may allow for optimizing meter read routes and billing cycles.
- New processes will be required to monitor and maintain the new AMR/AMI.
- New processes for water leak detection and water loss reduction will be possible with the new AMR/AMI.

AMI Business Case Evaluation

Based on the preliminary requirements identified as part of prior tasks, Arcadis will develop a business case for the implementation of AMR/AMI and metering technologies compared to the current state. The business case evaluation will evaluate alternatives for AMR and AMI, compared to

the current state. The analysis will look at the total cost of ownership, including meter replacement, network maintenance, software maintenance and support, and integration. We will also look at scenarios that involve solutions fully managed by a third party, as well as hybrid options in which the Village plays a role by maintaining components of the AMR/AMI solution.

Arcadis will perform an economic analysis as part of the business case that will form the basis for determining the feasibility of the performance based contracting model. The business case evaluation will include the development of the estimated cost for each potential technical alternative that meets the requirements identified by the team. Cost estimation capabilities are built into our meter replacement analytical model and are based on our meter replacement cost estimating database. We break down the cost estimate into the major system components including cost categories such as water metering, AMI/AMR endpoints, data collection equipment, software and integration, installations, etc.

The cost estimate is then compared to the anticipated benefits that will result from the AMR/AMI, including items such as enhanced water revenue, improved customer service, and re-allocation of meter maintenance staff.

The business case will consider:

Summarized problem statements	We will use the results of the prior tasks to define a concise set of current-state problems.
Detailed description of alternatives	We will identify and define up to three relevant alternatives based on the current state and system requirements.
Life-cycle costs for identified alternatives	Using data from recent successful AMI procurements and vendor information, we will develop life-cycle costs for each identified alternative.
Benefits of each alternative	Benefits are the core of the business case, and as such we will place special emphasis on their definition. We will identify both tangible and intangible benefits, using the tangible benefits to calculate key investment metrics, such as return on investment, benefit-cost ratio, and pay-back period.
Implementation schedule for identified alternatives	We will consider schedule differences for each identified alternative and will develop the planning level schedule for the recommended alternative.
Risks	We will identify potential risks for the identified project alternatives.
Key assumptions	We will document assumptions used during the development of the business case.
Key Performance Indicators (KPIs)	We will suggest metrics that can be used in the future to confirm the benefits of the program.

Project Plan

At the completion of the needs assessment Arcadis will develop a project plan that will establish the path forward for the selection AMR/AMI system. The project plan will include an updated estimate of project cost, and will recommend an appropriate scope and detailed strategy for the project including timelines and phasing for procurement of supplies, infrastructure deployment, and system testing.

Deliverables. Draft and Final Letter Report – Needs Assessment Results, and Executive Summary Presentation

Phase 2 – Procurement

2.1 – Water Meters and AMI

Arcadis will support the Village throughout the solicitation development process as an owner’s agent and will help with activities such as RFP development, issuance of addenda, proposal evaluation, award recommendations, and contract negotiations. The result of these efforts will be a signed contract or contracts for the AMR/AMI system that most closely matches the needs and requirements of the Village. We will work with the Village to develop the AMR/AMI solicitation and to complete the procurement of the AMR/AMI, following the guidelines defined by the Village’s procurement department for the required contract vehicles, resulting in the best value selection of the AMR/AMI. We will leverage our AMI experience and support from the Village’s procurement team to document a procurement and proposal evaluation process that will result in the selection of the best fit solution.

RFP Development

Arcadis will use the outcomes from needs assessment to develop the RFP package. Our team will work closely with the Village’s procurement department to ensure we are compliant with the Village’s purchasing rules and regulations. This effort will also include reviewing and validating the performance metrics suggested during the requirements phase of the project. **Arcadis will work with the Village to identify final KPIs, which will be used to manage the implementation progress and benefits of the AMR/AMI system.**

Proposal Evaluation

Arcadis will provide a robust proposal evaluation process and methodology that stems from our experience deploying AMI solutions. Our typical methodology is a four round proposal evaluation process as shown in Figure 4. We will work with the Village to tailor this proposal evaluation methodology to align with the Village’s procurement policies and procedures.

Arcadis will manage the RFP process, including conducting a pre-proposal meeting and managing the development and distribution of any required RFP addenda.

We develop a balanced scorecard that will enable the selection team to rate the candidate AMI vendors objectively based on the set of criteria that were established as part of the procurement planning process in alignment with the requirements of the Village’s procurement department. Our technical experts review all vendor proposals to determine compliance with procurement requirements and minimum qualifications. Arcadis will facilitate a thorough review and assessment of technical responses with the Village’s selection team members. During these sessions,

our technical experts will provide clarity and explanation to support the team’s understanding of the responses to fairly assess the technical proposals.

Additionally, our team will prepare a cost comparison analysis from all proposers and prepare a cost comparison deliverable for the Village team. Developing a cost comparison model starts with the RFP Package Pricing Forms. The RFP will include pricing forms, which will guide the proposer to provide the right level of pricing detail.

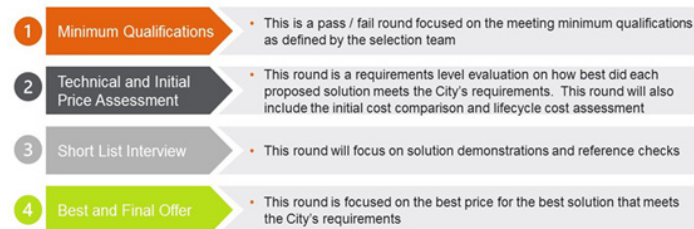


Figure 4 – Example Proposal Evaluation Approach

The cost analysis will use capital costs, annual recurring costs, and the project deployment timeline to develop a lifecycle cost analysis. Arcadis uses a net present value (NPV) approach for the lifecycle cost analysis using the Village’s solution life (typically 15 or 20 years).

With this initial technical and pricing assessment complete, the Village selection team will be ready to identify a shortlist to invite for interviews. Arcadis will prepare for and facilitate interviews with vendors to include an implementation approach, qualifications, and vendor specific questioning. Demonstration evaluation guidelines are developed and provided to selection team members.

At the completion of all demonstrations, Arcadis will facilitate the final selection process. Upon our final selection, we will prepare Village staff to bring the recommendation for final approval.

Contract Negotiation and Award

Once the vendor selection is final, we begin to move the requirements from the proposal request document into the contract to ensure the utility’s desired responsibilities, timeline and outcomes are crystal clear to all parties. The contract must include an agreement that all system elements will be met to achieve project success and precisely how success will be measured.

Arcadis provides experienced practitioners who have negotiated multiple AMI and installation contracts in the past. This experience will result in a contract that is favorable to the Village and covers all project elements. We will facilitate the work plan development between the selected vendor and project team to include identified resources,

timelines, responsibilities, professional services, high level project plan, detailed Statement of Work (SOW), and change management procedures, both in-house and with the selected vendor(s).

Once the contract is signed and agreed upon, we will notify all vendors of the selection and proceed with onboarding the AMR/AMI vendor and implementation team.

Deliverables. Request for Proposals

2.2 – Procurement – Installation Services

As requested by the Village, Arcadis will develop a request for bids for the installation services. Arcadis maintains a thorough and complete meter and AMI installation specification that is aligned with our quality control and payment acceptance criteria and bid tab templates. We will review the Village’s general conditions and related construction specifications and will integrate our installation specification to develop a tailored bid package the meets all of the Village’s requirements.

We will then facilitate the bid process by conducting a pre-bid meeting and managing the question, answer, and addendum process.

Upon receiving bids, Arcadis will review them for compliance with the bid documents and will confirm the provided bid prices. We will then write a formal bid summary and recommendation letter to the Village

Deliverables. Bid Package, and Recommendation Letter

Phase 3 – Implementation

Our AMI implementation approach has been constructed based on the Arcadis team’s experience with similar large-scale meter replacement and AMI projects. Our approach places a large emphasis on formal project management processes and thorough quality control processes, which ensure proper contractor coordination and oversight. It is rooted solidly in Project Management Institute’s (PMI) project management body of knowledge, which we have built-out to reflect the unique needs of a large-scale customer service transformation and AMI project. We accomplish the implementation objectives by performing the following activities.

3.1 – Software and Interfaces Quality Control

Arcadis will work with the selected water meter AMI system contractor to prepare an implementation plan for the selected system. The implementation plan will include a testing strategy and approach that will define the test activities to be performed, the test data strategy, testing environments, testing tools, testing procedures, and the sign-off process. The elements of the quality assurance plan may include:

Functional Testing. Functional testing ensures that the delivered AMR/AMI control and monitoring software is tested and aligned with the Village’s business requirements. Modifications, enhancements, and reports are tested during this phase. Functional testing will be performed by the Village testing team with assistance from the Arcadis project management team.

Integrated System Testing. Integrated system testing ensures all application components are working as a complete solution rather than merely in isolation, with an emphasis on the integration with the utility billing system. This include testing of all system interfaces and testing of all end-to-end processes, such as for meter installation, meter reading, and billing operations. System testing is performed by end users with involvement from the project management team and the power users.

Test Script Design, Planning, and Tracking. The Arcadis testing team will design test scripts and a tracking method to ensure the system is fully tested prior to the final cutover. They will facilitate testing of all impacted systems in conjunction with Village staff, and will periodically report upon testing progress through the overall project reporting process.

Issues Tracking. The Arcadis testing team will design an issues tracking method to monitor issues, gaps, and defects found during testing activities, and report on progress towards their resolution.

Arcadis will manage all testing activities for the AMR/AMI project. Based on the detailed test plans for each system, the Arcadis project management team will support the Village by:

- Developing test cases and scripts
- Prepare testing environments and data, in conjunction with the system administrators and the AMR/AMI contractor
- Work with Village staff to execute the test cases
- Identify, log, analyze, and assign defect
- Manage defect resolution

3.2 – Installation Quality Control

Arcadis will provide quality control for AMR/AMI deployments related to hardware installation, including best practices, data validation, and verification. Our team

of industry experts understands the impact of proper installation and accurate data gathering, has been involved in the business for many years and have curated a group of tests and best practice recommendations that have helped hundreds of customers across the country.

- In general, the deployment quality assurance will include things such as:
- Verification of endpoint availability and meter read transmissions to confirm that the AMR/AMI meets the established system performance specifications.
- Installer quality reviews to determine the competence of new AMR/AMI installers.
- Data quality reviews, to verify that device and installation data collected in the field is correct.

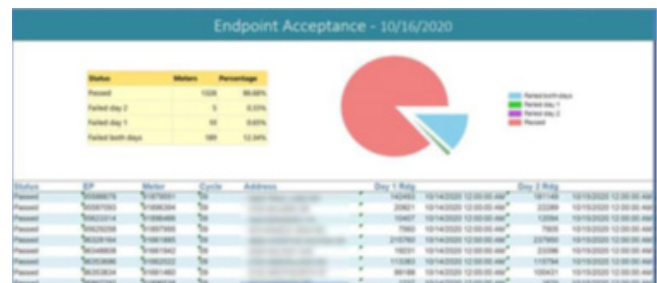


Figure 5 – Example Meter and Endpoint Installation Acceptance Dashboard

Arcadis will manage installation quality assurance as defined in the quality management plan and installation vendor contract. Once the equipment is installed, our quality control team verifies the installations in a few different ways. First, and most critically, is investigating the data coming into the AMR/AMI system. This data can provide information on which specific installations should be investigated physically in the field. Once the data is provided from the installation team, we also verify the numbers reported match the AMR/AMI system, preventing billing errors. Finally, the project’s field team is deployed to investigate issues as well as to perform random sampling.

3.2 – Customer Communication

This project will be particularly visible and touch the public in a very personal way. **Arcadis will develop an implementation plan that incorporates a section to address customer engagement and communication.** The AMR/AMI system implementation effort will require targeted and consistent communication to inform stakeholders, excite them about the benefits the new infrastructure offers and garner their support for the transition to an AMR/AMI system. Arcadis typically recommends that a customer communication program be initiated early in the project, starting with the development of a communication plan.

We will identify the various audiences (such as residential customers, local area businesses, larger commercial customers, impacted Village personnel, etc.) to appropriately segment stakeholders and allow for customized messaging that meets the needs of each constituency. For example, commercial and critical care providers may require different communications than residential customers.

To develop the communication plan, the Arcadis team will perform the following activities:

- **Communication Planning Workshop.** We will facilitate a workshop with the Village project team members to present our current view of the issues at play; to collectively think through potential approaches; and gain consensus among the decision makers on your team about an appropriate communication strategy.
- **Communication Plan Development.** We will draft a communication plan crystallizing our audiences, their wants and needs, strategies and tactics to provide a better offer, and a phased timeline for the project.

Quick-Launch Materials. We have found that having a base set of informational materials very quickly into the project is important, as it is possible for residents and elected officials to start asking questions very early in the process. We will use our past project examples to quickly produce a set of communication tools such as internet page updates, frequently asked questions (FAQs), project briefings, and system overview materials.

Phase 4 – Close

Final Transition Plan

The close-out management plan will identify the procedures to receive the satisfactorily completed project from contractor(s), prior to making final payments, including complete turnover of the documentation, commissioning, owner training and operational procedure manuals, together with applicable warranty documents of all equipment, and successful integration of the AMI system with the Village's billing system.

Transition Plan. The transition plan will define the process by which any on-going operational activities will be transferred to the Village.

Lessons Learned. Arcadis will document the lessons learned from the project in a manner that will support their application to future projects.

Project Document Repository Archive. Arcadis will provide the complete repository of project documents to the Village as required to support long-term project archival.

Deliverables: Final Transition Report

Alternative Approaches

Alternative 1 - Turn-Key Implementation Project

Arcadis has been involved with AMI projects that have used a variety of procurement approaches, and we have had success procuring the AMI, water meter, and installation services as one turn-key project using a qualifications+price based selection. The leading AMI vendors maintain close relationships with specialized installation companies or use distributors with installation services to perform most aspects of the project, subcontracting specialized services where necessary. This approach may also reduce overall implementation costs and provides a single point of accountability for project success. Using this approach would reduce the level of effort required for the procurement activities by \$26,000.

Optional Field Inspections

Arcadis has the ability to provide field inspection services to supplement Village staff. The field inspections provide an on-site physical inspection of the water meter installation that is used to augment our data-driven acceptance processes. The intent of the field inspections is to identify issues that would not appear in the data transfer, such as substandard workmanship or incorrect equipment. While the nature and number of field inspections can vary by project, we generally recommend that all large commercial meter installations be inspected, 25% of 1 1/2- to 2-inch meters be inspected, and that a sample of between 5% - 10% smaller meters be inspected based on the actual size distribution. We can institute field inspection processes that are tightly integrated into the overall project management and control, and will leverage the installation management system to track all QC activities and required actions. Depending on the level of field inspections undertaken the fee for this service can range between \$60,000 and \$110,000.

SECTION

E REFERENCES

Our team’s breadth of capabilities provides the Village with access to the full range of services needed to successfully implement your advanced metering needs. We provide the Village with extensive experience in advanced metering infrastructure for water, and we couple this with our

broader understanding of intelligent water systems and smart-cities applications. The following table presents a sampling of our relevant experience and illustrates the depth and breadth of our experience.

Client Name	Firm (Arcadis, SL serco)	Project Name	Approx. # of Customer Accounts/Meter Endpoints	Water, Wastewater, Gas, Electric
City of Norfolk, VA	Arcadis	AMI Needs Assessment and Planning	70,000	W
Greene County, OH	Arcadis	Meter Replacement Project Manager	22,000	W
Washington Suburban Sanitary Commission (WSSC)	Arcadis	AMI Planning	485,000	W, WW
City of Phoenix, AZ	Arcadis	Meter-to-Bill Evaluation	420,000	W, WW
City of South Bend, OH	Arcadis	Meter-to-Cash	43,000	W, WW
Birmingham Water Works Board, AL	Arcadis	SAP Customer Relationship and Billing Implementation and Upgrades	270,000	W, WW
City of Wichita, KS	Arcadis	Metering and Billing Improvements Plan	150,000	W
City of Mesa, AZ	Arcadis	AMI Consulting and Project Management	230,000	W, G, E
City of Scottsdale, AZ	Arcadis	Residential Water Meter Study	88,000	W
Youngstown, OH	Arcadis	Water Meter Engineering Services	55,000	W, WW
City of Tucson, AZ	Arcadis	Water AMI Strategic Plan and Pilot	30,000	W
St. Marys, OH	Arcadis	AMI Planning and Selection	5,000	W, E
City of Columbus, OH	Arcadis	Water Audit and Non-Revenue Water Analytics	300,000	W, WW
Puerto Rico Aqueduct & Sewer Authority	Arcadis	Owners Agent for Optimizing PRASA's Metering Infrastructure and Customer Service Experience	1,200,000	W, WW
Chicago Department of Water Management	Arcadis	Water Infrastructure Program	162,000	W
USEPA	Arcadis	Advanced Metering Infrastructure Primer	NA	W
Chesterfield County Utilities	SL-Serco	AMI System Plan	115,000	W, WW
City of Tempe, AZ	SL-Serco	AMI System Plan, Procure, Deploy	80,000	W, WW
City of Winter Park, FL	SL-Serco	AMI System Deploy and Optimization	28,500	W, WW, E
Fort Worth Water District, TX	SL-Serco	AMI System Plan, Procure, Deploy	240,000	W, WW
Huntsville Electric Co-op	SL-Serco	AMI System Deploy	63,000	W, G, E
Lee County Water	SL-Serco	AMI System Deploy and Optimization	85,000	W, WW
Town of Cary, NC	SL-Serco	AMI System Deploy and Optimization	52,000	W, WW
Western Virginia Water Authority	SL-Serco	AMI System Deploy and Optimization	64,000	W, WW



METER REPLACEMENT PROGRAM

Greene County Sanitary Engineering Department, OH

Arcadis is serving as Project Manager for this meter replacement and AMI installation project.

Our Role

Arcadis is the leading Green County Sanitary Engineering Department (GCSED) effort to improve meter reading performance and reliability, and to deploy new customer facing portal functionality. The project involves replacing approximately 22,000 water meters and deploying a new Advanced Metering Infrastructure (AMI) system, including new water analytics software and needed system integration with the utility billing system. In our role as Project Manager, Arcadis is providing a host of services that will result in a successful project.

Key Challenges

GCSED's water meters were reaching end of their expected useful life and are due for replacement. As part of this replacement, GCSED desired to upgrade from their existing drive-by-meter reading system to an AMI capable of providing more detailed water usage information and to deploy new software able to utilize this information to support operations. They also desire to provide more granular usage information and leak alerting to customers via a web-based customer portal. To address these challenges, GCSED initiated the meter replacement and AMI project, part of their overall Green Forward infrastructure renewal program.

Our Approach

Arcadis approach to AMI program management has been constructed based on the unique and specific requirements of these important customer-facing projects. Our work is broadly defined in a series of phases:

- Needs Assessment – Arcadis performed a Needs Assessment study which analyzed the existing water meter inventory and meter-to-bill business processes.
- Procurement – We worked with GCSED staff to define the requirements for the AMI and to update their meter specifications. We then developed a request for bids and managed the bidding process.
- Customer Communication Planning – The meter replacement project is especially visible to the GCSED's customers and requires that special consideration be given to customer outreach.
- Design – In preparation for the meter and AMI deployment, Arcadis developed quality control and change management plans.
- Deployment – During the deployment of the new meter and AMI, Arcadis was responsible for overall program management and quality assurance (QA). The QA program consisted of software and interface testing and acceptance, and inspection monitoring for the meter installations.
- Project Management – Throughout the entire meter replacement project, Arcadis provided overall project management including schedule management, scope and change management, cost and earned value management, and overall coordination with the Greene Forward program. Arcadis also provided support to the County to obtain State revolving loan funding for the project.

The Client Outcome

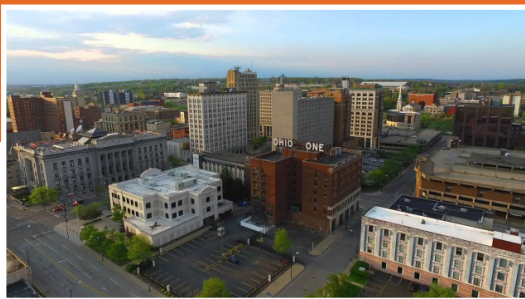
The GCSED meter replacement project is currently being installed and the project is expected to be complete by end of 2022.

CLIENT

Greene County
Sanitary Engineering
Department, Xenia, OH

PROJECT COSTS

\$500,000



METER ENGINEERING SERVICES

Youngstown, OH

Arcadis provided planning and procurement services to the City of Youngstown, OH in support of their water meter improvement project. Special consideration was given to adhering to the City's required procurement process while still selecting water meters and an AMI that was most advantageous to the City.

CLIENT
City of Youngstown

PROJECT COSTS
\$112,000

We began by collecting, organizing and evaluating the City's residential and commercial water meter inventory data, including meter manufacturer, type, size, age, reading histories, failure history and cumulative flow. We then conducted workshops with the City's meter testing and maintenance staff to discuss and review the requirements for the water meter specifications and the process by which meters would be procured.

With this information, Arcadis prepared the technical specifications for the replacement of water meters to be used by the City for the purposes of competitive procurement and supported the competitive bidding process for the new water meters.

In conjunction with the meter replacement program, the City evaluated and procured a new AMI. Arcadis began by preparing a business case for the AMI project that considered all the costs, benefits and risks for AMI. We also developed the system requirements for AMI and used this as the basis for developing a RFP. Arcadis then facilitated the procurement of the AMI system. We worked closely with the City to:

- Develop a request for qualifications/requests for proposals for core AMI technology and services.
- Manage the solicitation process in conjunction with City staff.
- Evaluate qualifications and proposals.
- Facilitate a final selection meeting.

This process resulted in the City choosing the Sensus FlexNet AMI and Sensus water meters.

Finally, Arcadis worked with the City to select a new field deployment management system to prepare them to install the AMI. The City's desire to self-install the AMI required that they provide their staff with a new mobile computing platform to support the deployment work. Arcadis evaluated the software offerings currently available on the market, then prepared a request for proposals for new field deployment system. As a result of this the City selected the Clevest application and have used it to support the deployment of new water meters and the AMI system.

SMART METERING PROJECT

Mesa, AZ



CLIENT
City of Mesa

PROJECT COSTS
\$1.5 million

Arcadis provides project management leadership and AMI technical expertise for the planning, procurement and Phase 1 implementation of the City's AMI solution. The importance of this project with the alignment to the City's Smart City strategy is to advance the City's utility services with advanced metering technologies to improve utility operations and enhance their customers' experience. The City is focused on empowering utility staff and customers using information and data from AMI.

The Smart Meters Project was undertaken by the City of Mesa to install 'smart' meters across its three utility service offerings. The City has a population of 500,000 and provides water, gas and electric services for customers both in City limits and surrounding areas. The City's water system has approximately 153,000 service connections for residential, commercial and industrial customers. The City's natural gas utility serves over 44,000 homes and businesses inside City limits and an additional 25,000 in the Magma service area southeast of the City. The City also provides electric utility services to approximately 17,000 residential and commercial customers located within a 5.5 square mile area centered around Mesa's downtown area.

The project implementation is about three to four years. It is expected that the City will conclude an initial deployment of about 2,000 smart meters in 2022. City-wide deployment across all three utilities is targeted to be completed in 2025 – 2026.

In 2018, the City established their Smart City vision and master plan, Smarter Mesa. The City's vision is to leverage technologies and data-driven insights to improve quality of life, citizen engagement, public safety, economic development, service delivery and community vibrancy.

The City desires to provide responsive solutions that enhance the live, work and play experiences of people in the community.

The overarching Smart Metering Project goals are:

- Align with the City's overall Smart City initiative. The Smart Metering Project is an initiative under the City's Smart City Program which supports the City's Smarter Mesa themes, Smart Government and Smart Infrastructure.
- Improve or enhance utility to customer communication. The City wants to enhance their customer's experience in every interaction, making things easier to resolve concerns and do business with the City.
- Improve operational effectiveness and productivity. Streamlined processes, less rework, less manual processes, less truck rolls, better response times, improved safety and more employee opportunity are all key expectations and outcomes from the AMI project.
- Encourage a forward-thinking culture across the City's three utility offerings. The City is on their journey to transform the utility into a smarter utility. Leveraging advanced technologies is part of this foundation to enable employees and change the culture to one that incorporates data-driven insights into their day-to-day work.

AMI Planning, Procurement and Deployment Tempe, AZ

The value of this project was the advanced metering change and program management and deployment for a large utility and the advanced metering system deployment.

CLIENT
City of Tempe

PROJECT COSTS
\$600,000

SL-serco is currently providing AMI consulting services to the City of Tempe. To start the process of deploying an advanced metering system, SL-serco has helped the City with strategic and project planning, including education and documentation. To begin this process, SL-serco and the City established a project team with key stakeholders from each department. This team, including SL-serco's subject matter experts and change management experts, developed a set of requirements and goals for the program. Using these requirements and goals for the utility, SL-serco presented possible advanced metering solutions that would suit the utility. To best educate the project team, the project team then invited local vendors to present solutions and the technology available today. SL-serco then narrowed the cases down to four possible solutions to be evaluated for the City. The cases were then evaluated for their costs and benefits. SL-serco recommended a full AMI deployment in a three-year period, and this was ultimately the direction taken.

SL-serco provided assistance through the procurement of a full AMI system after this decision. Using the requirements and documentation created in the planning phase, SL-serco's team assisted the City in the creation of an RFP. Once released, SL-serco facilitated vendor questions and requests for the document. Upon the receipt of vendor responses, SL-serco and the project team evaluated the proposals and came to a decision that best suited the City's needs. SL-serco then facilitated contract negotiations between the City and its selected vendor.

As of this proposal, SL-serco has finalized deployment and validated the system; SL-serco is now helping the City build a digital twin and analyzing their AMI data with SCADA information to build better rate structures. Key values that SL-serco provided include system verification, including user acceptance testing and system acceptance testing; tightly monitored and corrected vendor performance; and multi-system data integration, including large data management efforts. As SL-serco works with the City to better use the data coming from their systems, we continue to refine their business processes and program success KPI's.



Section F:
Fee Proposal



Village of Orland Park Meter Replacement Program Evaluation - Fee Proposal

Labor Category	Principal Consultant II	Principal Consultant I (Project Manager)	Principal Consultant I (Project Principal)	Technical Support	Senior Consultant/Analyst	Staff Consultant/Analyst II	AMI Specialist	Installation QC Specialist		
Billable Labor Rate	\$ 250.00	\$ 210.00	\$ 210.00	\$ 95.00	\$ 185.00	\$ 120.00	\$ 265.00	\$ 207.00		
Description									Task Hours	Task Fee
Project Management	0	300	120	0	0	40	0	0	460	\$ 93,000.00
Task 1.1-Project Initiation	6	20	4	10	0	0	0	8	48	\$ 9,146.00
Task 1.2-Needs Assessment	40	110	4	110	0	0	8	40	312	\$ 54,790.00
Task 2.1-Procurement - Water Meter/AMI	40	130	24	140	0	0	0	40	374	\$ 63,920.00
Task 2.2-Procurement - Installation	16	110	24	100	0	0	0	40	290	\$ 49,920.00
Task 3.1 Software and Interface Quality Control	8	40	0	80	0	0	0	0	128	\$ 18,000.00
Task 3.2-Installation Quality Control	24	150	0	100	0	0	40	240	554	\$ 107,280.00
Task 3.3-Customer Communications	12	16	0	0	80	0	0	0	108	\$ 21,160.00
Task 4.1-Final Transition Plan	0	24	0	18	0	0	0	0	42	\$ 6,750.00
	\$ 36,500.00	\$ 189,000.00	\$ 36,960.00	\$ 53,010.00	\$ 14,800.00	\$ 4,800.00	\$ 12,720.00	\$ 76,176.00	2316	\$ 423,966.00
										Other Direct Costs \$ 23,260.00
										Total Not-to-Exceed Fee \$ 447,226.00

Village of Orland Park Meter Replacement Program Evaluation - Project Billable Labor Rates	
Technical Support	\$95
Staff Consultant/Analyst I	\$110
Staff Consultant/Analyst II	\$120
Project Consultant/Analyst	\$150
Senior Consultant/Analyst	\$185
Principal Consultant I	\$210
Principal Consultant II	\$250
Director-Consultants/Analysts	\$290
AMI Specialist	\$265
Installation QC Specialist	\$207

Section G:

Required Forms



PROPOSAL SUMMARY SHEET
RFP 22-016
Meter Replacement Program Evaluation

Business Name: Arcadis U.S, Inc

Street Address: 200 S. Michigan Avenue, Suite 2000

City, State, Zip: Chicago, IL 60604

Contact Name: Anthony Smurlo

Title: Anthony Smurlo

Phone: 312 229 5455 Fax: NA

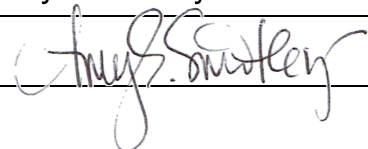
E-Mail address: Anthony.Smurlo@arcadis.com

Price Proposal

PROPOSAL TOTAL	\$ <u>\$447,226.00</u>
ALTERNATE PROPOSALS CONSIDERED. CLEARLY DESCRIBE PROPOSED ALTERNATIVE FUNDING / FINANCING PLAN	See Section D. Technical Approach and Section F. Fee Proposal Alternative 1 - Turn-Key Implementation Project - Reduces the fees associated with Tasks 2.1 and 2.2 by \$26,000. Alternative 2 - Optional Field Inspections during the Implementation would range between \$60,000 and \$110,000.

AUTHORIZATION & SIGNATURE

Name of Authorized Signee: Amy E. Smitley

Signature of Authorized Signee: 

Title: Vice President Date: March 7, 2022

 **ORLAND PARK**
CERTIFICATE OF COMPLIANCE

The undersigned Amy E. Smitley, as Vice President
(Enter Name of Person Making Certification) (Enter Title of Person Making Certification)
and on behalf of Arcadis U.S, Inc, certifies that:
(Enter Name of Business Organization)

1) BUSINESS ORGANIZATION:

The Proposer is authorized to do business in Illinois: Yes No []

Federal Employer I.D.#: 57-0373224
(or Social Security # if a sole proprietor or individual)

The form of business organization of the Proposer is (*check one*):

- Sole Proprietor
 Independent Contractor (*Individual*)
 Partnership
 LLC
 Corporation Delaware October 9, 1997
(State of Incorporation) (Date of Incorporation)

2) ELIGIBILITY TO ENTER INTO PUBLIC CONTRACTS: Yes No []

The Proposer is eligible to enter into public contracts, and is not barred from contracting with any unit of state or local government as a result of a violation of either Section 33E-3, or 33E-4 of the Illinois Criminal Code, or of any similar offense of "Bid-rigging" or "Bid-rotating" of any state or of the United States.

3) SEXUAL HARASSMENT POLICY: Yes No []

Please be advised that Public Act 87-1257, effective July 1, 1993, 775 ILCS 5/2-105 (A) has been amended to provide that every party to a public contract must have a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105 (A) (4) and includes, at a minimum, the following information: (I) the illegality of sexual harassment; (II) the definition of sexual harassment under State law; (III) a description of sexual harassment, utilizing examples; (IV) the vendor's internal complaint process including penalties; (V) the legal recourse, investigative and complaint process available through the Department of Human Rights (the "Department") and the Human Rights Commission (the "Commission"); (VI) directions on how to contact the Department and Commission; and (VII) protection against retaliation as provided by Section 6-101 of the Act. (Illinois Human Rights Act). (emphasis added). Pursuant to 775 ILCS 5/1-103 (M) (2002), a "public contract" includes "...every contract to which the State, any of its political subdivisions or any municipal corporation is a party."

4) EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE: Yes X No []

During the performance of this Project, Proposer agrees to comply with the "Illinois Human Rights Act", 775 ILCS Title 5 and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, et seq. The

Proposer shall: (I) not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, or physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; (II) examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization; (III) ensure all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, or physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; (IV) send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Vendor's obligations under the Illinois Human Rights Act and Department's Rules and Regulations for Public Contract; (V) submit reports as required by the Department's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and Department's Rules and Regulations for Public Contracts; (VI) permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and Department's Rules and Regulations for Public Contracts; and (VII) include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of this Agreement obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this Agreement, the Proposer will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Proposer will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations. Subcontract" means any agreement, arrangement or understanding, written or otherwise, between the Proposer and any person under which any portion of the Proposer's obligations under one or more public contracts is performed, undertaken or assumed; the term "subcontract", however, shall not include any agreement, arrangement or understanding in which the parties stand in the relationship of an employer and an employee, or between a Proposer or other organization and its customers. In the event of the Proposer's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Right Act, or the Rules and Regulations for Public Contracts of the Department of Human Rights the Proposer may be declared non-responsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and this agreement may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

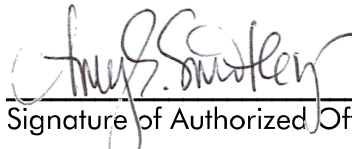
5) TAX CERTIFICATION: Yes X No []

Contractor is current in the payment of any tax administered by the Illinois Department of Revenue, or if it is: (a) it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate Revenue Vice President into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

6) AUTHORIZATION & SIGNATURE:

I certify that I am authorized to execute this Certificate of Compliance on behalf of the Contractor set forth on the Proposal, that I have personal knowledge of all the information set forth herein and that all statements, representations, that the Proposal is genuine and not collusive, and information provided in or with this Certificate are true and accurate. The undersigned, having become familiar with the Project specified, proposes to provide and furnish all of the labor, materials, necessary tools, expendable equipment and all utility and transportation services necessary to perform and complete in a workmanlike manner all of the work required for the Project.

ACKNOWLEDGED AND AGREED TO:



Signature of Authorized Officer
Amy E. Smitley

Name of Authorized Officer
Vice President

Title
March 7, 2022

Date

REFERENCES

Provide three (3) references for which your organization has performed similar work.

Bidder's Name: Arcadis U.S, Inc
(Enter Name of Business Organization)

1. ORGANIZATION	<u>Greene County Sanitary Engineering Department</u>
ADDRESS	<u>667 Dayton-Xenia Rd., Xenia, OH 45385</u>
PHONE NUMBER	<u>937-562-7469</u>
CONTACT PERSON	<u>Kenneth A. Stewart, P.E., Project Manager</u>
YEAR OF PROJECT	<u>2019 - Present</u>
2. ORGANIZATION	<u>Fayette County Water System</u>
ADDRESS	<u>245 Mcdonough Rd., Fayetteville, GA 30214</u>
PHONE NUMBER	<u>770-320-6016</u>
CONTACT PERSON	<u>Vanessa Tigert, P.G., Director</u>
YEAR OF PROJECT	<u>2021 - Present</u>
3. ORGANIZATION	<u>City of Apple Valley*</u>
ADDRESS	<u>7100 147th St. W, Saint Paul, MN 55124</u>
PHONE NUMBER	<u>952-953-2412</u>
CONTACT PERSON	<u>Matt Saam, Public Works Director</u>
YEAR OF PROJECT	<u>2015-2020</u>

*SL-serco project



ORLAND PARK

INSURANCE REQUIREMENTS

Please provide a policy Specimen Certificate of Insurance showing current coverage's along with this form.

WORKERS' COMPENSATION & EMPLOYER LIABILITY

Full Statutory Limits - Employers Liability
\$500,000 – Each Accident \$500,000 – Each Employee
\$500,000 – Policy Limit
Waiver of Subrogation in favor of the Village of Orland Park

AUTOMOBILE LIABILITY (ISO Form CA 0001)

\$1,000,000 – Combined Single Limit Per Occurrence
Bodily Injury & Property Damage

GENERAL LIABILITY (Occurrence basis) (ISO Form CG 0001)

\$1,000,000 – Combined Single Limit Per Occurrence
Bodily Injury & Property Damage
\$2,000,000 – General Aggregate Limit
\$1,000,000 – Personal & Advertising Injury
\$2,000,000 – Products/Completed Operations Aggregate

Additional Insured Endorsements:

ISO CG 20 10 or CG 20 26 **and** CG 20 01 Primary & Non-Contributory
Waiver of Subrogation in favor of the Village of Orland Park

CG 20 37 Additional Insured – Completed Operations *(provide if box is checked)*

Please provide the following coverage, if box is checked.



PROFESSIONAL LIABILITY

\$1,000,000 Limit - Claims Made Form, Indicate Retroactive Date
Deductible not-to-exceed \$50,000 without prior written approval



UMBRELLA LIABILITY (Follow Form Policy)

\$2,000,000 – Each Occurrence \$2,000,000 – Aggregate
EXCESS MUST COVER: General Liability, Automobile Liability, Employers' Liability



UMBRELLA/EXCESS PROFESSIONAL LIABILITY

\$1,000,000 Limit – Claims Made Form, Indicate Retroactive Date
Deductible not-to-exceed \$50,000 without prior written approval



BUILDERS RISK

Completed Property Full Replacement Cost Limits -
Structures under construction



ENVIRONMENTAL IMPAIRMENT/POLLUTION LIABILITY

\$1,000,000 Limit for bodily injury, property damage and remediation costs
resulting from a pollution incident at, on or mitigating beyond the job site



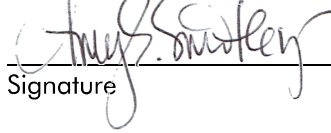
CYBER LIABILITY

\$1,000,000 Limit per Data Breach for liability, and notification, response
and credit monitoring service costs

Any insurance policies providing the coverages required of the Consultant, excluding Professional Liability, shall be specifically endorsed to identify **"The Village of Orland Park, and their respective officers, trustees, directors, officials, employees, volunteers and agents as Additional Insureds on a primary/non-contributory basis with respect to all claims arising out of operations by or on behalf of the named insured."** The required Additional Insured coverage shall be provided on the Insurance Service Office (ISO) CG 20 10 or CG 20 26 endorsements or an endorsement at least as broad as the above noted endorsements as determined by the Village of Orland Park. Any Village of Orland Park insurance coverage shall be deemed to be on an excess or contingent basis as confirmed by the required (ISO) CG 20 01 Additional Insured Primary & Non-Contributory Endorsement. The policies shall also contain a Waiver of Subrogation in favor of the Additional Insureds in regard to General Liability and Workers' Compensation coverage. The certificate of insurance shall also state this information on its face. Any insurance company providing coverage must hold an A-, VII rating according to Best's Key Rating Guide. Each insurance policy required shall have the Village of Orland Park expressly endorsed onto the policy as a Cancellation Notice Recipient. Should any of the policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Permitting the contractor, or any subcontractor, to proceed with any work prior to our receipt of the foregoing certificate and endorsements shall not be a waiver of the contractor's obligation to provide all the above insurance.

Consultant agrees that prior to any commencement of work to furnish evidence of Insurance coverage providing for at minimum the coverages, endorsements and limits described above directly to the Village of Orland Park, Nicole Merced, Finance Management Analyst, 14700 S. Ravinia Avenue, Orland Park, IL 60462. Failure to provide this evidence in the time frame specified and prior to beginning of work may result in the termination of the Village's relationship with the contractor.

ACCEPTED & AGREED THIS 7th DAY OF March, 2022



Signature

Authorized to execute agreements for:

Amy E. Smitley Vice President
Printed Name & Title

Arcadis U.S., Inc.
Name of Company



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
02/14/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services South, Inc. Franklin TN Office 501 Corporate Centre Drive Suite 300 Franklin TN 37067 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS:		
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Hartford Fire Insurance Co.		19682
	INSURER B: Hartford Casualty Insurance Co		29424
	INSURER C: Hartford Accident & Indemnity Company		22357
	INSURER D: Twin City Fire Insurance Company		29459
	INSURER E:		
INSURER F:			

COVERAGES **CERTIFICATE NUMBER:** 570091616895 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDITIONAL INSURED	SUBROGATED	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liability GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:	Y	Y	20ECSOL5318 SIR applies per policy terms & conditions	10/01/2021	10/01/2022	EACH OCCURRENCE	\$1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
							MED EXP (Any one person)	\$10,000
							PERSONAL & ADV INJURY	\$1,000,000
							GENERAL AGGREGATE	\$2,000,000
							PRODUCTS - COMP/OP AGG	\$2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> Property Damage to Ot			20 UEN OL5319	10/01/2021	10/01/2022	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
							BODILY INJURY (Per person)	
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$10,000	Y		20XHUOL5322	10/01/2021	10/01/2022	EACH OCCURRENCE	\$2,000,000
							AGGREGATE	\$2,000,000
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	Y	20WNOL5323 AOS 20WPROL5321 WI	10/01/2021	10/01/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
D		N	N/A		10/01/2021	10/01/2022	E.L. EACH ACCIDENT	\$1,000,000
							E.L. DISEASE-EA EMPLOYEE	\$1,000,000
							E.L. DISEASE-POLICY LIMIT	\$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 RE: Project No. 30053627. Village of Orland Park and their respective officers, trustees, directors, officials, employees, volunteers and agents are included as Additional Insured in accordance with the policy provisions of the General Liability and Umbrella Liability policies. General Liability policy evidenced herein is Primary and Non-Contributory to other insurance available to an Additional Insured, but only in accordance with the policy's provisions. A waiver of Subrogation is granted in favor of Village of Orland Park and their respective officers, trustees, directors, officials, employees, volunteers and agents in accordance with the policy provisions of the General Liability and workers' Compensation policies. Umbrella Liability is Follow Form over the General Liability, Automobile Liability and workers Compensation/Employers Liability coverages.

CERTIFICATE HOLDER Village of Orland Park Attn: Nicole Merced, Management Analyst 14700 S. Ravinia Avenue Orland Park IL 60462 USA	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

Holder Identifier : ABEFGHI

570091616895

Certificate No :



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
Blanket, as required by written contract.	All locations where required by written contract.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations;
whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
Blanket, as required by written contract.	All locations where required by written contract.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

AMENDMENT OF OTHER INSURANCE CONDITION SCHEDULED ADDITIONAL INSURED

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART (EXCESS)
COMMERCIAL GENERAL LIABILITY COVERAGE PART (EXCESS – BROAD FORM)

SCHEDULE

BLANKET AS PER WRITTEN CONTRACT

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

A. With respect to the additional insured designated in the Schedule above, Paragraph 4. **Other Insurance of Section IV– Conditions** is deleted and replaced by the following:

4. Other Insurance

If other valid and collectible insurance is available to the insured for a loss we cover under this Coverage Part, our obligations are limited as follows:

a. Primary Insurance

Subject to the “self-insured retention” this insurance is primary and we will not seek contribution from other insurance available to the person or organization shown in the Schedule of this Endorsement except when **b.** below applies:

b. Excess Insurance

This insurance is excess over any of the following other insurance, whether primary, excess, contingent or any other basis:

- (1)** That is Fire, Extended Coverage, Builder’s Risk, Installation Risk or similar coverage for “your work”;
- (2)** That is Fire insurance for premises rented to you; or
- (3)** If the loss arises out of the maintenance or use of aircraft, “autos” or watercraft to the extent not subject to **Exclusion g.** of Section I. Coverage **A – Bodily Injury And Property Damage Liability.**

When this insurance is excess over other insurance, we will pay only our share of the amount of the loss, if any, that exceeds the sum of:

- (1) The total amount that all such other insurance would pay for the loss in the absence of this insurance; and
- (2) The total of all deductible and self-insured amounts under all that other insurance.

We will share the remaining loss, if any, with any other insurance that is not described in this Excess Insurance provision and was not bought specifically to apply in excess of the limits of insurance shown in the Declarations of this Coverage Part.

c. Method of Sharing

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limits of insurance to the total applicable limits of insurance of all insureds.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

- A.** If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B.** If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

- A.** If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B.** If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

- A.** If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B.** If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

Policy Number: 20 WN OL5323

Endorsement Number:

Effective Date: 10/01/2021 Effective hour is the same as stated on the Information Page of the policy.

Named Insured and Address: ARCADIS U.S., INC.

630 PLAZA DR STE 200
LITTLETON CO

This policy is subject to the following additional Conditions:

- A. If this policy is cancelled by the Company, other than for non-payment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.
- B. If this policy is cancelled by the Company for non-payment of premium, or by the insured, notice of such cancellation will be provided within ten (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

Failure to provide such notice to the certificate holder(s) will not amend or extend the date the cancellation becomes effective, nor will it negate cancellation of the policy. Failure to send notice shall impose no liability of any kind upon the Company or its agents or representatives.



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
02/14/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services South, Inc. Franklin TN Office 501 Corporate Centre Drive Suite 300 Franklin TN 37067 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): (800) 363-0105		
	E-MAIL ADDRESS:		
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Indian Harbor Insurance Company		36940
	INSURER B: Lexington Insurance Company		19437
	INSURER C:		
	INSURER D:		
	INSURER E:		
INSURER F:			

Holder Identifier : @

COVERAGES **CERTIFICATE NUMBER:** 570091616981 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. Limits shown as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION						EACH OCCURRENCE AGGREGATE
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y / <input type="checkbox"/> N	N/A				<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT
A	Env Contr Poll			US00101061E021A Professional & Pollution SIR applies per policy terms & conditions	06/01/2021	06/01/2022	Each Claim \$1,000,000 Annual Aggregate \$1,000,000

570091616981

Certificate No :

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

For Professional Liability and Pollution Liability coverage, the Aggregate Limit is the total insurance available for claims presented within the policy period for all operations of the insured. The Limit will be reduced by payments of indemnity and expense. RE: Project No. 30053627.

CERTIFICATE HOLDER**CANCELLATION**

Village of Orland Park Attn: Nicole Merced, Management Analyst 14700 S. Ravinia Avenue Orland Park IL 60462 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE





ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Services South, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570091616981			
CARRIER See Certificate Number: 570091616981	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 **FORM TITLE:** Certificate of Liability Insurance

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES

If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	OTHER							
	<input checked="" type="checkbox"/> Claims-Made							
	<input checked="" type="checkbox"/> Professional Liabil							
	<input checked="" type="checkbox"/> and Contractors							
	<input checked="" type="checkbox"/> Pollution Liability							

This endorsement, effective 12:01 a.m., 06/01/21 forms a part of
Policy No. US00101061EO21A
Issued to Arcadis U.S., Inc.
by Indian Harbor Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY CANCELLATION – NOTICE TO DESIGNATED ENTITIES

This endorsement modifies insurance provided under the following:

PROFESSIONAL, ENVIRONMENTAL AND NETWORK SECURITY LIABILITY POLICY – ARCHITECTS,
CONSULTANTS AND ENGINEERS

Section XI. OTHER CONDITIONS, Paragraph A. Cancellation is amended by the addition of the following:

In the event that the Company cancels this Policy for any statutorily permitted reason other than non-payment of premium, the Company agrees to provide thirty (30) days' notice of cancellation of this Policy to any entity with whom the NAMED INSURED agreed in a written contract or agreement would be provided with notice of cancellation of this Policy, provided that:

1. The Company receives, at least fifteen (15) days prior to the date of cancellation, a written request from the NAMED INSURED to provide notice of cancellation to entities designated by the NAMED INSURED to receive such notice and;
2. The written request includes the name and address of each person or entity designated by the NAMED INSURED to receive such notice.

This endorsement does not apply to non-renewal of the Policy, cancellation at the INSURED'S request, or to cancellation of the Policy for non-payment of premium to the Company or to a premium finance company authorized to cancel the Policy. Furthermore, nothing contained in this endorsement shall be construed to provide any rights under the Policy to the entities receiving notice of cancellation pursuant to this endorsement, nor shall this endorsement amend or alter the effective date of cancellation stated in the cancellation notice issued to the NAMED INSURED.

All other terms and conditions of the Policy remain unchanged.



CERTIFICATE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY)
02/14/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

PRODUCER Aon Risk Services South, Inc. Franklin TN Office 501 Corporate Centre Drive Suite 300 Franklin TN 37067 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122		FAX (A/C. No.): 800-363-0105
	E-MAIL ADDRESS: PRODUCER CUSTOMER ID #: 570000005571		
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Starr Indemnity & Liability Company		38318
	INSURER B:		
	INSURER C:		
	INSURER D:		
	INSURER E:		

Holder Identifier :

COVERAGES	CERTIFICATE NUMBER: 570091617211	REVISION NUMBER:
LOCATION OF PREMISES/ DESCRIPTION OF PROPERTY (Attach ACORD 101, Additional Remarks Schedule, if more space is required) RE: Project No. 30053627.		

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	COVERED PROPERTY	LIMITS
A	<input checked="" type="checkbox"/> PROPERTY	ITC100065126421	10/01/2021	10/01/2022	BUILDING	
	<input type="checkbox"/> CAUSES OF LOSS				DEDUCTIBLES	
	<input type="checkbox"/> BASIC				BUILDING	
	<input type="checkbox"/> BROAD				CONTENTS	
	<input type="checkbox"/> SPECIAL					
	<input checked="" type="checkbox"/> EARTHQUAKE					
	<input type="checkbox"/> WIND					
	<input checked="" type="checkbox"/> FLOOD					
	<input checked="" type="checkbox"/> ALL RISK-Subject to Exclusions					
	<input type="checkbox"/>					
<input type="checkbox"/>				<input checked="" type="checkbox"/> Boiler & Machinery	Included	
<input type="checkbox"/>	INLAND MARINE	TYPE OF POLICY				
<input type="checkbox"/>	CAUSES OF LOSS	POLICY NUMBER				
<input type="checkbox"/>	NAMED PERILS					
<input type="checkbox"/>	CRIME					
<input type="checkbox"/>	TYPE OF POLICY					
<input type="checkbox"/>	BOILER & MACHINERY / EQUIPMENT BREAKDOWN					

570091617211

CERTIFICATE NUMBER:

SPECIAL CONDITIONS / OTHER COVERAGES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Replacement cost coverage provided. Business Income is Actual Loss Sustained. Deductible: Earthquake - 2% subject to \$100,000 minimum;CA Earthquake - 5% subject to \$100,000 minimum; Flood - 2% subject to \$100,000 minimum A waiver of Subrogation is granted in favor of Certificate Holder in accordance with the policy provisions of the Property policy. A waiver of Subrogation

CERTIFICATE HOLDER Village of Orland Park Attn: Nicole Merced, Management Analyst 14700 S. Ravinia Avenue Orland Park IL 60462 USA	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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AGENCY CUSTOMER ID: 570000005571

LOC #:

ADDITIONAL REMARKS SCHEDULE

Page _ of _

AGENCY Aon Risk Services South, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570091617211			
CARRIER See Certificate Number: 570091617211	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 24 **FORM TITLE:** Certificate of Property Insurance

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	COVERED PROPERTY	LIMITS
A	PROPERTY	ITC100065126421	10/01/2021	10/01/2022	VP Deductible	\$10,000
					Earthquake	\$10,000,000
					Flood	\$10,000,000
					BI/EE	\$15,000,000
					Loss Limit	\$25,000,000



ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Services South, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570091617211		EFFECTIVE DATE:	
CARRIER See Certificate Number: 570091617211	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 24 **FORM TITLE:** Certificate of Property Insurance

LOCATION OF PREMISES / DESCRIPTION OF PROPERTY

SPECIAL CONDITIONS / OTHER COVERAGES

is granted in favor of Village of Orland Park and their respective officers, trustees, directors, officials, employees, volunteers and agents in accordance with the policy provisions of the Property policy.

Arcadis U.S., Inc.

200 South Michigan Avenue
Suite 2000
Chicago, Illinois 60604
Phone: 312 917 1000
www.arcadis.com