



Agenda/Minutes

200 East Station Street
Ashville, Ohio 43103

Phone: 740-983-6367 Fax: 740-983-4703

Water Processing Facility Project		
4.26.2022	11:30 am	200 East Station Street, Ashville, Ohio, 43103
Meeting	Utility Committee - Water Processing Facility Project	
Issue	Interview of Strand Associates	
Members	Roger Clark David Rainey Steve Welsh Franklin Christman Susan Leatherwood Chad Noggle Chris Tebbe Jim Welsh Charles Wise	
Chairperson	Steve Welsh	
Note taker		
Attendees	<input checked="" type="checkbox"/> Franklin Christman <input checked="" type="checkbox"/> Roger Clark <input checked="" type="checkbox"/> Susan Leatherwood <input type="checkbox"/> Chad Noggle <input type="checkbox"/> David Rainey <input checked="" type="checkbox"/> Chris Tebbe <input checked="" type="checkbox"/> Jim Welsh <input checked="" type="checkbox"/> Steve Welsh <input checked="" type="checkbox"/> Charles Wise	
Interview of Strand Associates		
Presentation	Brian Hackman, Jamie Mills and Kris Ruggles	
Information	See pdf of PowerPoint, Exhibit B	
Action Items	Person Responsible	Deadline
Communicate Site Visit	Franklin Christman	Communicate by 4/28/2022
Communication by Email		
Post Interview Next Step		
Discussion	Among Committee Team Member	
Conclusions	Next Committee meeting May 24, 2022 at 11:30	
Action Items	Person Responsible	Deadline
Select Engineering Firm	Team	5/24/2022
Communication by Email		
Old Business		
New Business		
Meeting Officially Ended at 1:00 pm		
Next Utility Committee meeting May 9, 2022, after Committee of the Whole		
Next Subcommittee Meeting May 24, 2022 at 11:30 am		



STRAND
ASSOCIATES[®]

Excellence in EngineeringSM
Since 1946

Our Team's Responsive Service, Quality Engineering, and Attention to Detail Delivers Successful Long-Term Water Treatment Solutions

Village of Ashville, Ohio



Perfectly Matched Team Leaders Bring National Expertise and Local Familiarity



**Brian Hackman, P.E.,
P.H., BCCE**
Senior Project
Manager

- 25 years experience
- 23 years with Strand
- Director of Practice for Water Supply within our firm
- Manager of many during 127 projects throughout 23 years, including more than 13 clients in Ohio
- PE in 7 states



Jamie Mills, P.E.
Client Liaison /
Assistant Project
Manager

- 11 years experience
- 7 years with Strand
- Grew up in Ashville and lives 15 minutes away
- Has attended Village Council and Committee Meetings for the past 7 years to remain engaged and informed of Village needs



**Kris Ruggles,
P.E., S.I.**
Planning Engineer and
Funding Coordinator

- 17 years experience
- 17 years with Strand
- Local resident of Ashville and lives 10 minutes away
- City Engineer for City of Circleville
- Helped fund more than 40 communities in Ohio

Full-Service Project Team Covers All Project Needs with Available In-House Experts



Client Liaison / Assistant Project Manager
Jamie Mills, P.E.

Senior Project Manager
Brian Hackman, P.E., P.H., BCEE

Quality Control Engineer
Scott Stearns, P.E., BCEE

Process Engineer
Andrew Esarey, P.E.

Mechanical Engineer
Christopher Wright, P.E.

Electrical Engineer
Shane Zenz, P.E.

Structural Engineer
Elizabeth Dienst, P.E.

Residual Handling
Matt Smith, P.E.

Surveyor
Brian Oyer, P.S.

Funding Coordinator
Kristopher Ruggles, P.E., SI

Seventy-Six Years of Service Signifies Organizational Strength, Stability, and Commitment to Quality Within Close Proximity to the Village



RANKED 18th
IN THE
MIDWEST
TOP DESIGN FIRM 2021
by Engineering News-Record Midwest



- 495 employees
- 12 offices throughout the US

Innovative Yet Proven Solutions Provide Confidence in Equipment Technology Alternatives and Selection



Lime Softening – Cedar Rapids, IA



Ion Exchange – Romeoville, IL

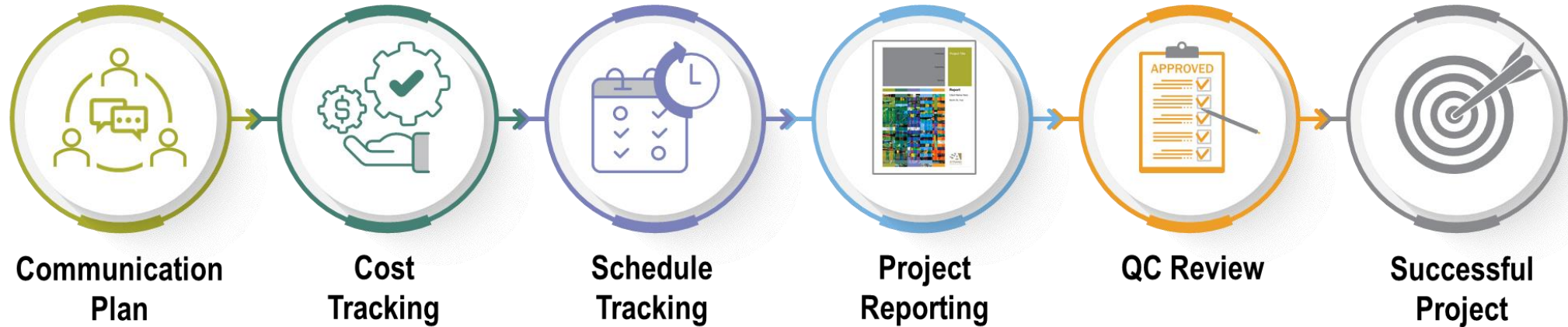


Fluidized Bed Reactors – Bargersville, IN

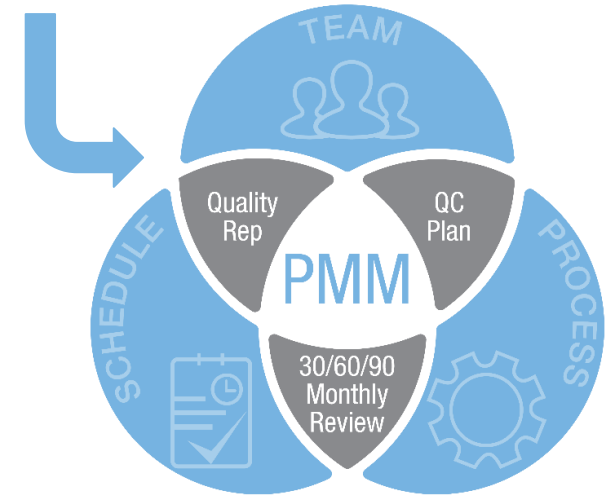


Reverse Osmosis – Aledo, IL

Our Proactive Project Management Approach Targets Client Satisfaction



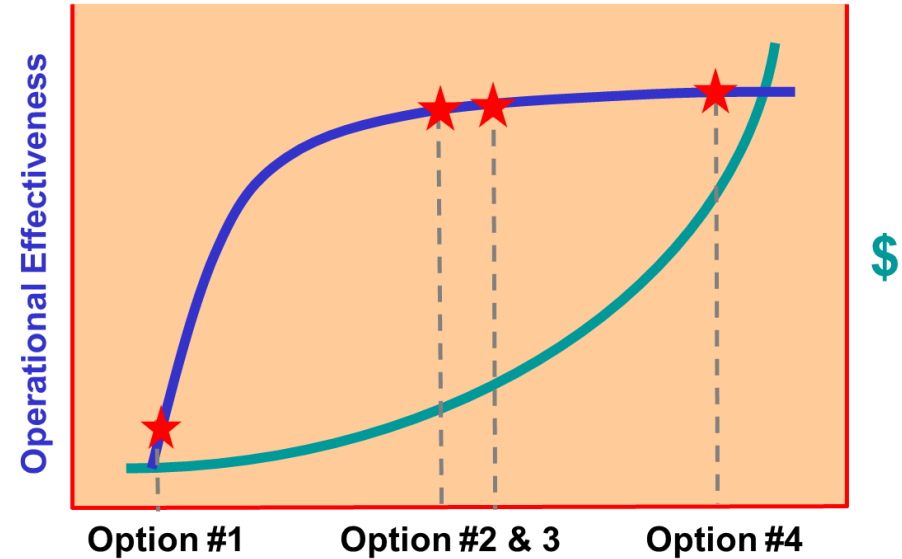
- Weekly telephone calls
- Monthly written reports
- Routine in-person visits



Successful Approach Helps Village Determine Value of Future Facilities Based on Historical Data and Operational Effectiveness



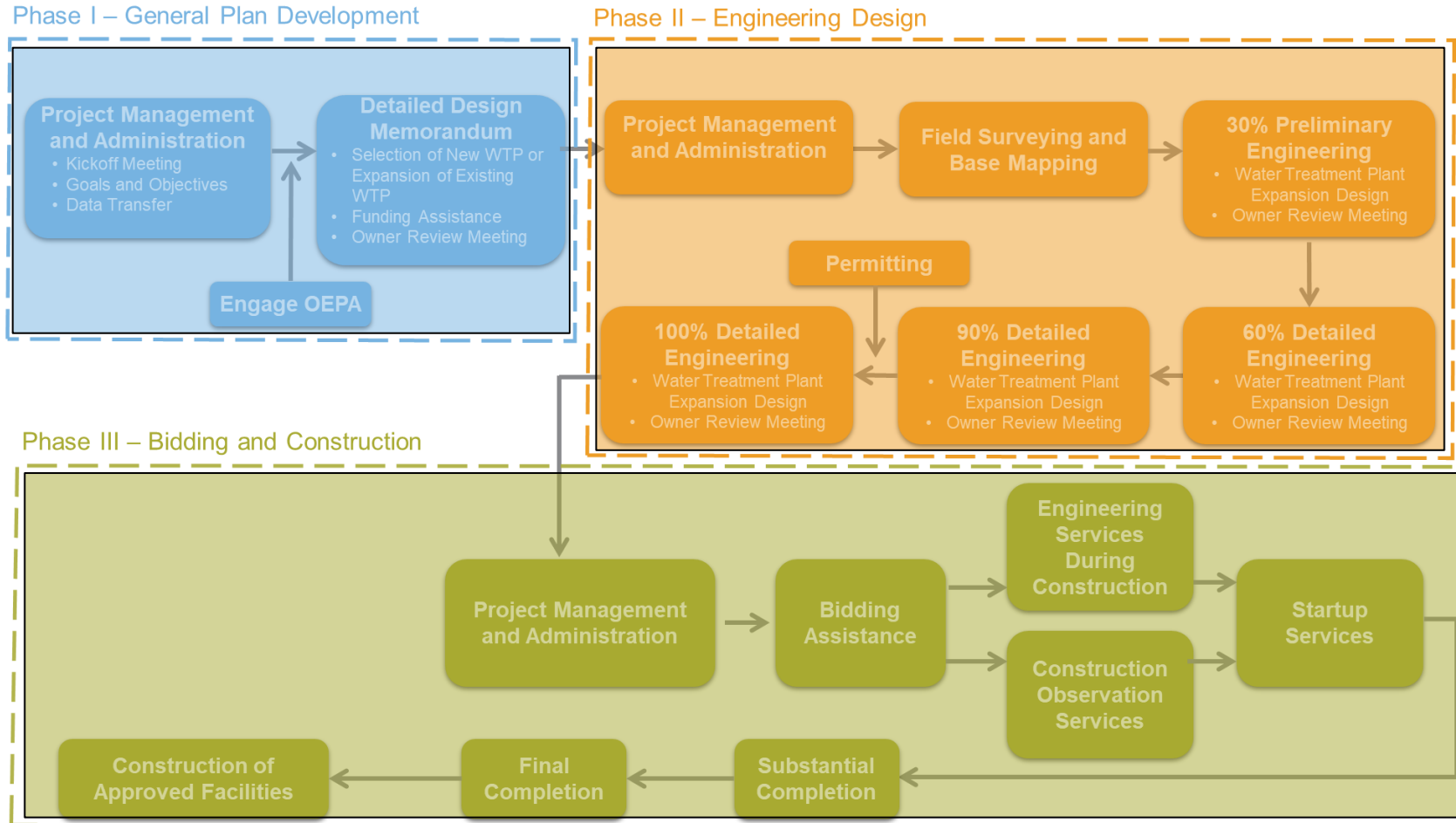
Example – Option 2
Morgantown, WV WTP



Village of Ashville, Ohio - Anticipated Budgetary WTP Replacement Project Costs			
Description	Treatment Alternatives		
	Reverse Osmosis	Ion Exchange	Lime Softening
Capital Cost (1.2 MGD Capacity)	\$6,560,000	\$4,360,000	\$7,640,000
Contingency (20%)	\$1,312,000	\$872,000	\$1,528,000
Total Construction	\$7,872,000	\$5,232,000	\$9,168,000
Technical Services and Legal (20%)	\$1,575,000	\$1,046,400	\$1,833,600
Total Basic Project	\$9.4 million	\$6.3 million	\$11.0 million

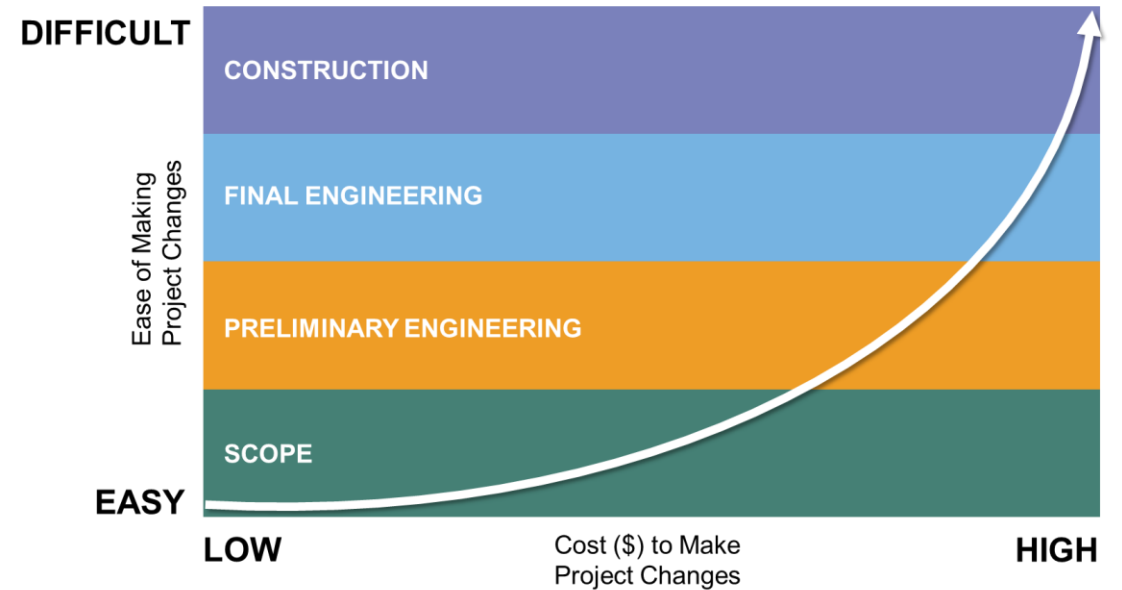
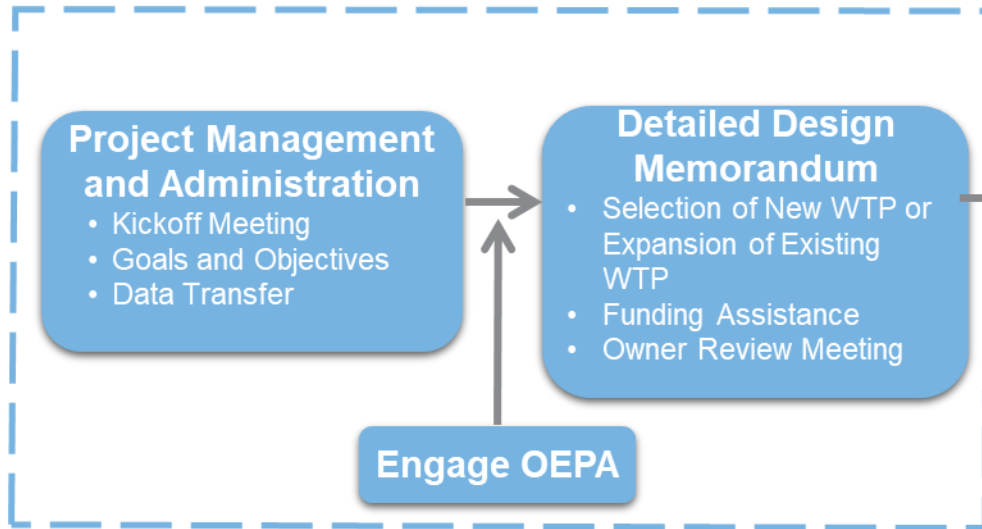
Probable cost above for relative alternative comparison only

Project Approach is Based on Your Detailed Scope of Services Request



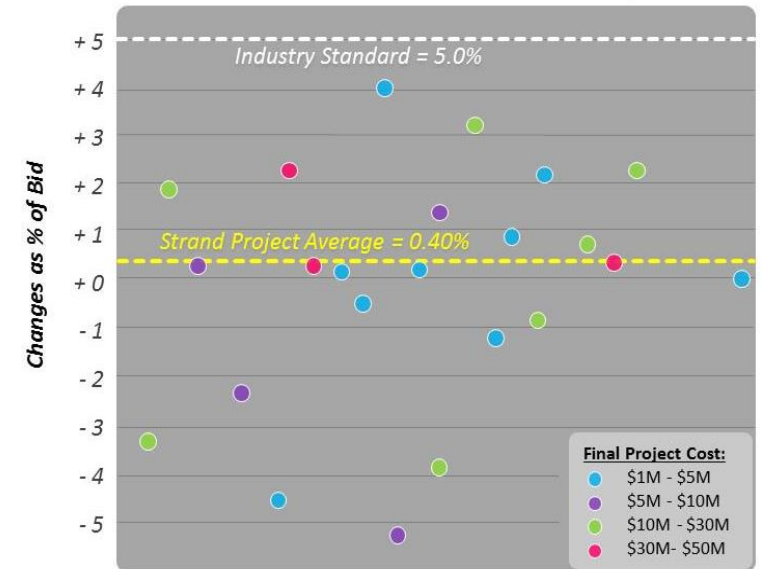
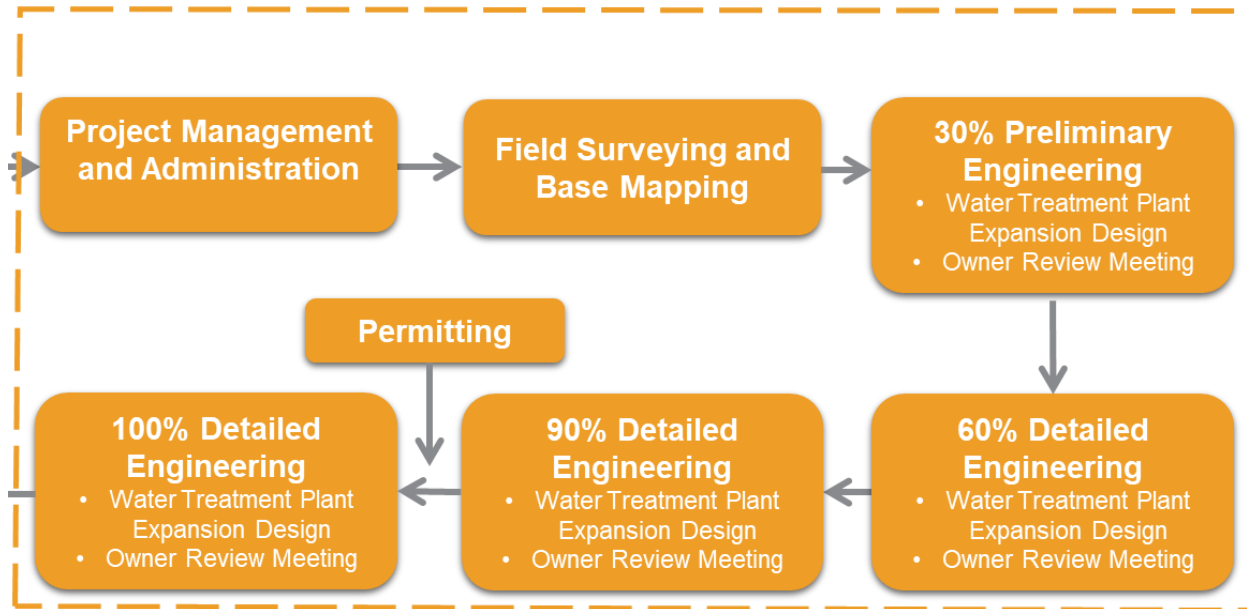
General Plan Development Accomplishes Preliminary Engineering that Establish Budgets and Design Criteria

Phase I – General Plan Development



Village Input Completes Our Engineering Design, Resulting in a Permit to Install (OEPA) and Bidding Documents

Phase II – Engineering Design



Our thorough designs reduce unexpected costs, Strand projects average 0.4% change orders compared to 5.0% industry standard.

Maintaining Design Responsibility During Construction Keeps the Contractor's Focus on Successful Project Completion

Owner
Workshop
No. 2

Detailed
Design

Bidding

Construction



Provide contract
administration
services

Provide full-time
resident project
representative

Provide
commissioning
services

Provide record
drawings compiled
from contractor's
records

Project Management and Observation Services Extend the Value of Your Constructed Infrastructure

Delaware reduces energy costs with sewage upgrade

By Dean Norcia
The Columbus Dispatch

DELAWARE — After the city of Delaware installed new high-efficiency energy compressors at its sewage treatment facility, it started the upgrade had a payoff.

At the same time, the city recently awarded the project an Energy Efficiency Champion Award and, with its \$1.1 million, the two new biogas-powered turbo blowers and pumps are saving about \$75,000 annually in operating costs. Officials say the savings should pay for the units, which should easily last more than the break-even period of about 13 years.

Much like a car's programmable thermostat in summer, the equipment continuously monitors the flow of wastewater into the city's Water Pollution Control Facility and adjusts the equipment to heat or cool tanks to limit energy. The process helps remove unwanted bacteria and other contaminants from the water supply.

AEP recognizes energy consumers who strive to reduce energy use and help the environment. Delaware is one of just a few in Ohio to report to the state website.

The new equipment includes compressor stations and control structures, it cost the city about \$1.1 million to install but save the equipment replaced, moved and pumps and towers that were more than 20 years old and required more manpower to operate and maintain.

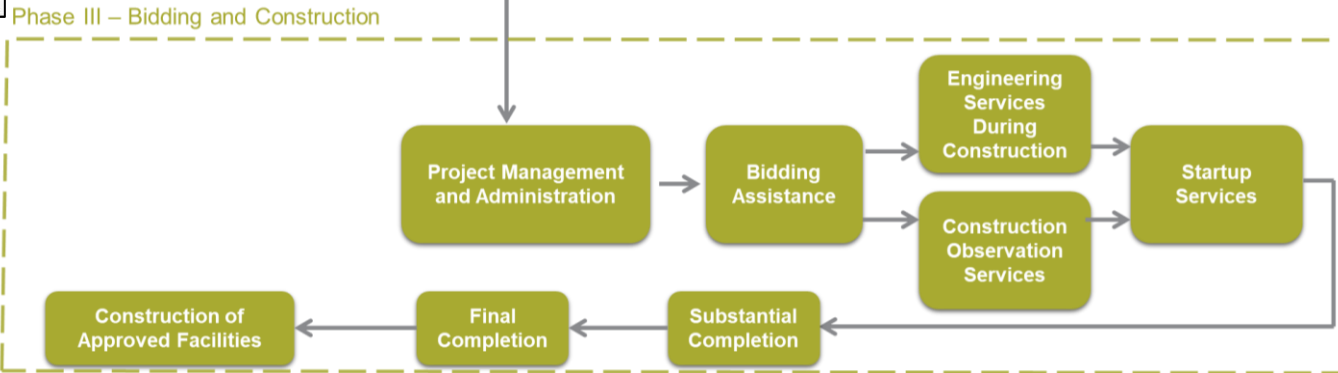
"One of the new blowers can do the job of two of the old ones and there," said Rick Kamenicki, a wastewater plant operator for the city of Delaware, estimates one of 20 operators can do the job of five of the old ones." Kamenicki said. (419) 345-1000

The old equipment likely will be sold for scrap value. The new turbines use magnetic bearings, which make them almost inaudible while operating. The old equipment cost about \$3,000 a month to operate. "We're saving upward of a million dollars here — or about 5% more — off our annual energy costs," said Rick Taylor, the city's director of public utilities. The old equipment cost about \$3,000 a month to operate. dnorcia@dispatch.com @DeanNorcia

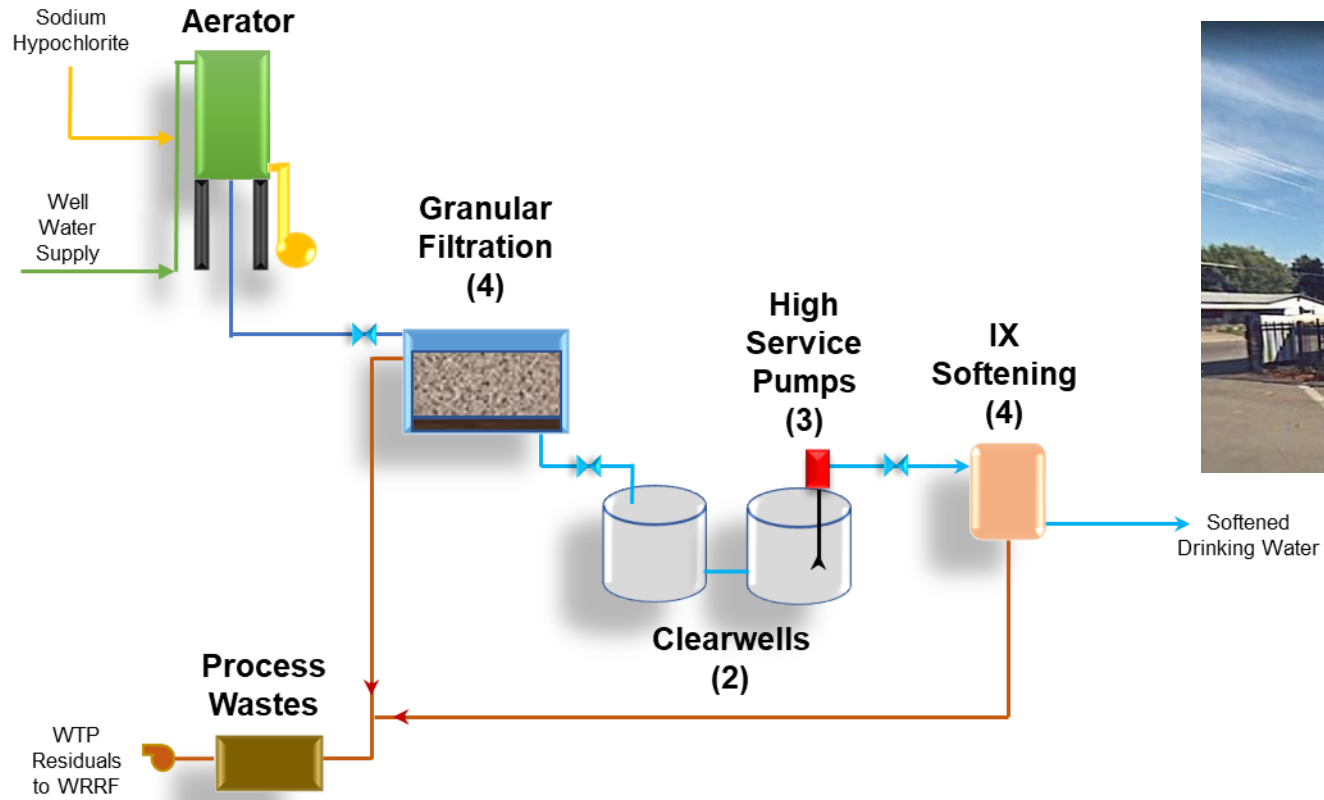
Ad assails candidate | Madison-Plains certifies earned-income tax vote

Source: The Columbus Dispatch, 5/18/2018

Funding	GRANT	Loan Savings	Rate	Deadline	Available
DEFA Backup Power	\$50,000	N/A	N/A	Aug 2019	Jan 2020
DEFA Septage/FOG		\$1,000,000	0.50%	Aug 2019	Jan 2020
DEFA Green Project		\$678,503	1.10%	Aug 2019	Jan 2020
ARC	\$250,000	N/A	N/A	May 2019	May 2020
OPWC	\$500,000	\$141,627	0%	Oct 2020	Jul 2020
RPIG	\$450,000	N/A	N/A	May 2020	May 2021
Economic Development	<u>\$3,000,000</u>	N/A	N/A	Open	TBD
	\$4,250,000	\$1,910,716			



Cost Effective Replacement of Aging Infrastructure Meets Future Water System Demands



Village's General WTP Schematic



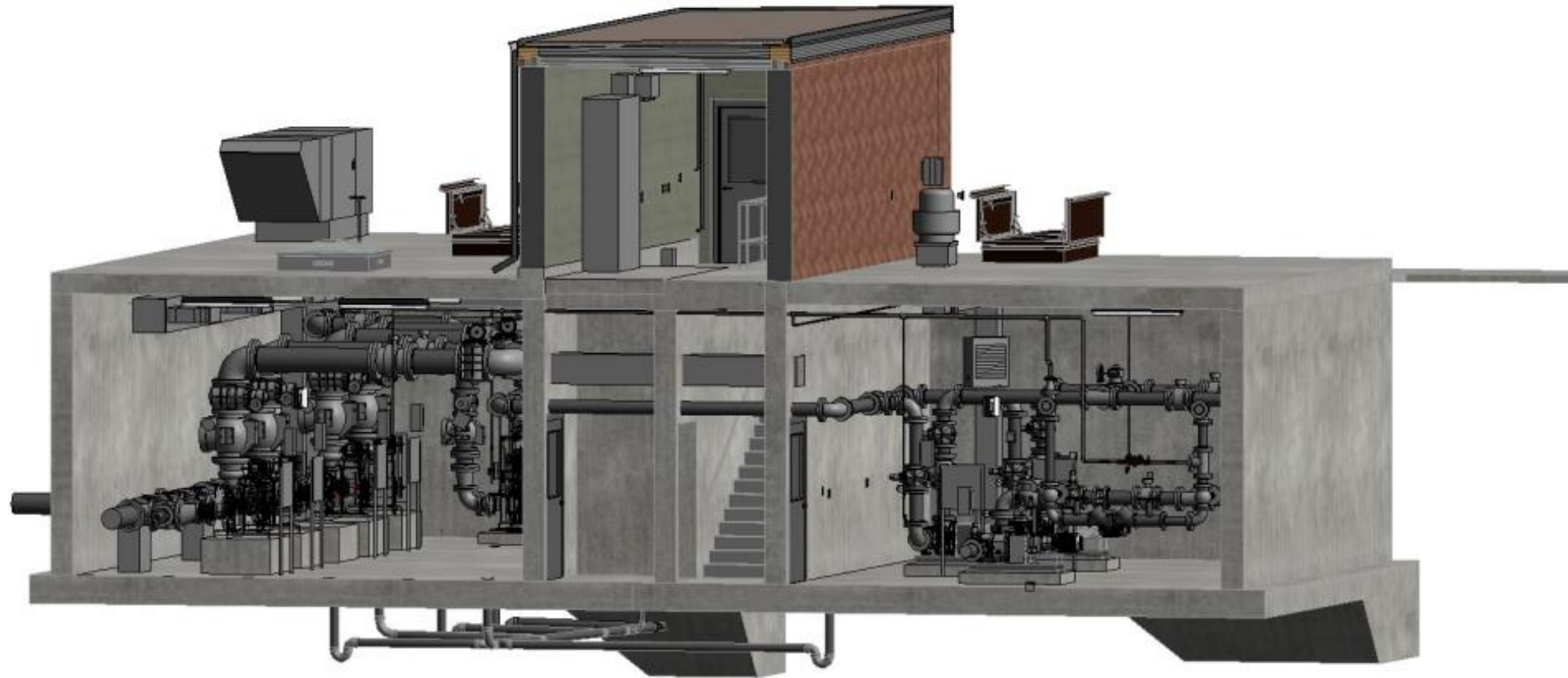
Map Data: Google Earth



Our Understanding of the Village's Preferences Drives Conceptual Renderings for Fine-Tuning Facility Details



Innovative Engineering Tools Allow Staff to More Easily Visualize Complicated Designs



Conceptual Renderings Enhance Operational Discussions and Design Reviews



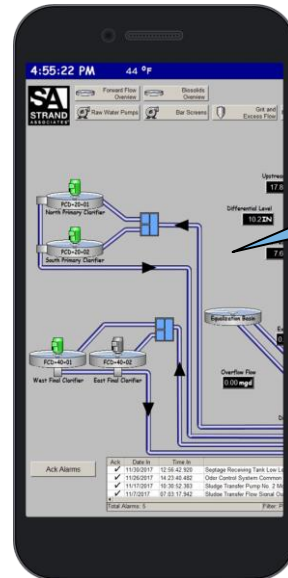
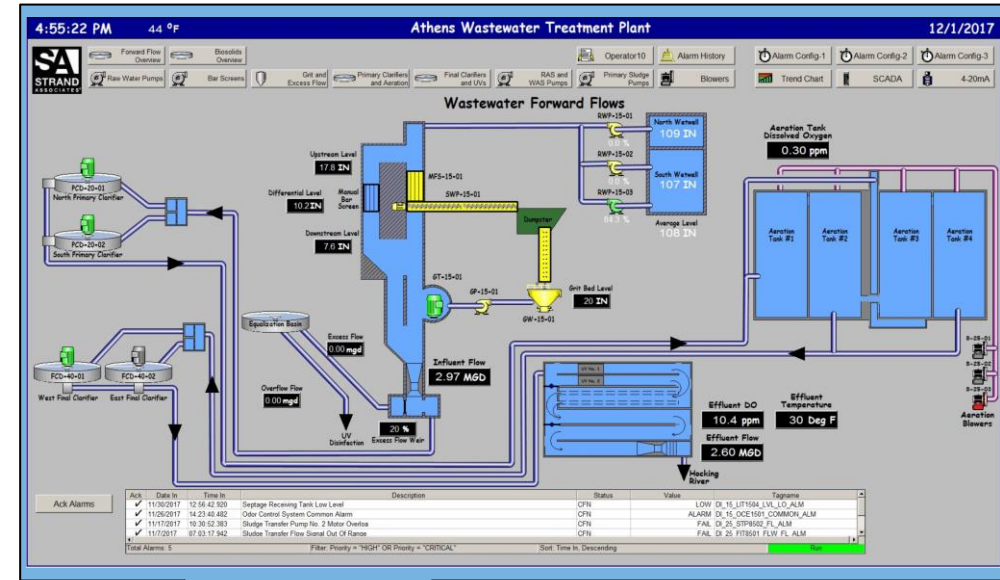
Practical Approach to Automation Improves Dependability, Convenience, and Cybersecurity

Maintainability

- Avoiding Obsolete Software
- Simple, Practical, Consistent

Operational Effectiveness

- Remote Access
- Security



© Comauthor – stock.adobe.com



Engineering Value is Demonstrated Through Project Savings



Detailed Knowledge of Funding and Permitting Enhances Village's Access to Grants, Project Savings, and Approvals

Funding agencies with which we have worked include:

- OEPA DEFA
- Ohio Public Works Commission
- CDBG (RPIG)
- EECEBG
- Appalachian Regional Commission Grants
- OWDA
- SCEIG
- EDA
- Army Corps 594
- 319 Grants
- USDA RD



Understanding Financing Options Enhances Affordability



Loan	Term (yrs)	Interest Rate	Total Debt Service
OWDA	20	2.41%	\$ 7,597,106.20
OEPA	20	1.16%	\$ 6,740,193.60

Energy Savings at Athens WTP Significantly Reduced Operating Expenses



Solar Power Generation Reduces Energy Dependence and Operational Costs



Roof Mounted PV Array



Solar Inverter and Disconnects



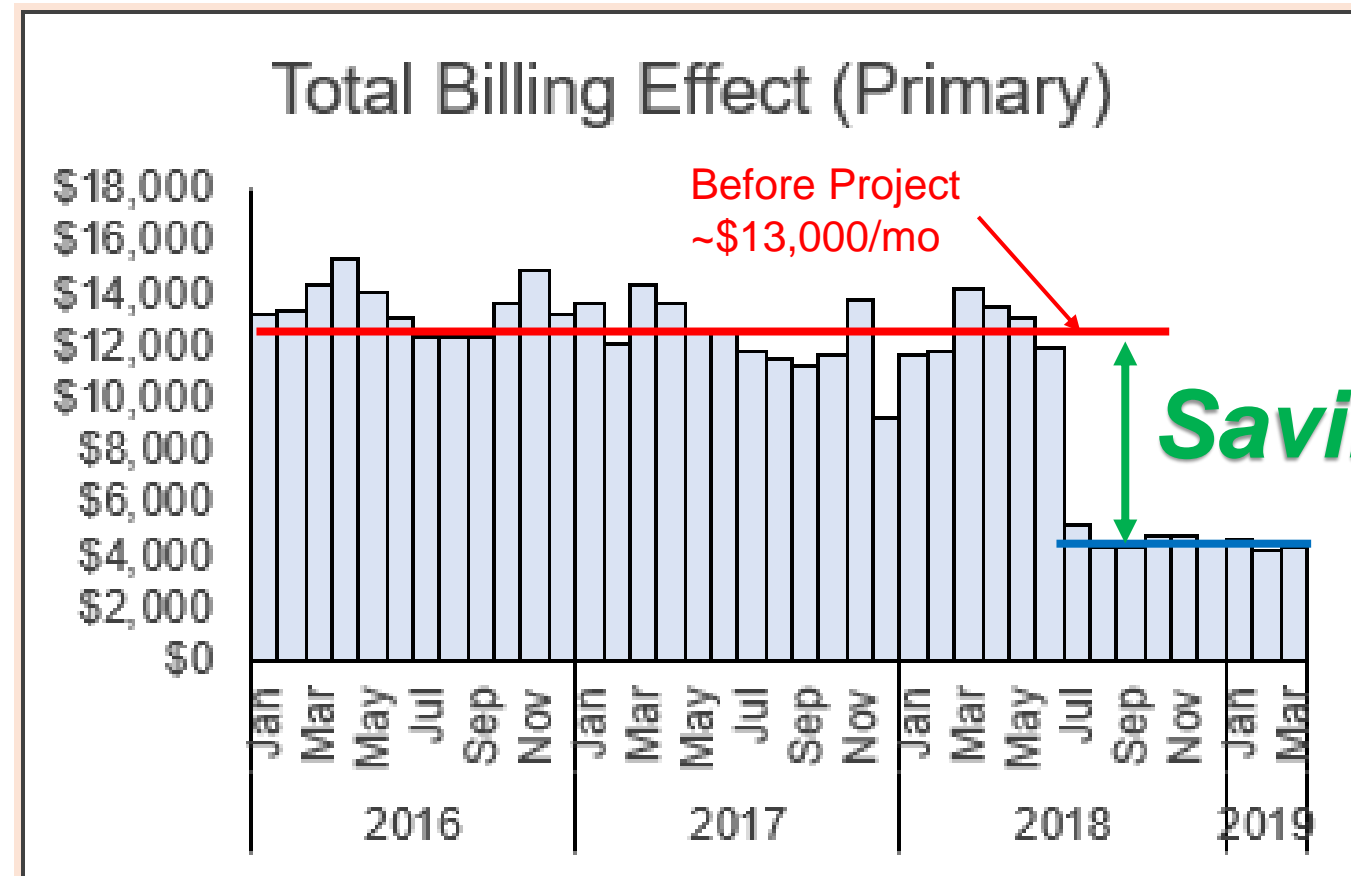
Ground Mounted PV Array

~ \$40,000 energy saved/year

Reduced Operating Expenses Positively Impact Rate Payers

City of Athens *Savings!*

- ~\$8,000 per month by reduced energy costs
- ~\$1,900,000 saved over 20 years!



After Project
~\$5,000/mo

Return on Investment is Expanded Through Cost Control Measures and Focus on Value-Added Approach

Project Cost Control

- Engineer fee: percentage vs. developed hours
- Weekly review of project progress vs. time spent

Project Schedule Control

- Review of scheduled availability before project begins

Construction Observation

- Full time vs. part time
- Qualifications of assigned person

Conflict Resolution

- Extension of Owner during construction



Selecting Strand Provides Responsive Service, Quality Engineering, and Attention to Detail to Deliver a Successful Long-Term Water Treatment Plant Solution

Because our:

- Perfectly matched team leaders bring national expertise and local familiarity.
- 76 years of service signifies organizational strength, stability, and commitment to quality within close proximity to the Village.
- Cost effective replacement of aging infrastructure meets future water system demands.
- Engineering value is demonstrated through project savings.
- Return on investment is expanded through cost control measures and focus on value-added approach.



STRAND
ASSOCIATES®

Excellence in EngineeringSM
Since 1946



Ashville, Ohio

Founded 1882

Village of Ashville

P.O. Box 195

200 East Station Street

Ashville, OH 43103

Office: 740/983-6367 • Fax: 740/983-4703

Email: ashvilleohio@ashvilleohio.gov



www.ashvilleohio.gov

Mayor

Charles K. Wise

Village Council

Nelson R. Embrey
President Pro Tempore
Roger L. Clark
Randy S. Loveless
R. David Rainey
Matt Scholl
Steve Welsh

Utility Committee

Roger L. Clark
R. David Rainey
Steve Welsh
Adam Kehoe *
Susan Leatherwood *
James Welsh *
Franklin Christman *
Chad Noggle*
* Ex Officio Member

Clerk-Treasurer

April Grube

Planning & Zoning

Jason J. Bartholow, Chair
Bryan Brunton
Michael Peters
Matt Scholl,
Village Representative
Adam Trimmer, Inspector
Charles K. Wise, Mayor

Chief of Service

Gregory L. Sturgill

Tax Administrator

Patricia S. Cavinee

Personnel Director

Brian M. Garvine

Chief of Police

Jeffrey A. George

Chief of Wastewater

Adam P. Kehoe

Chief of Water

James R. Welsh

Village Administrator

Franklin Christman

Qualifications Evaluation Criteria



Document all selection proceedings in the event questions arise. Ashville will not consider SOQs submitted after the deadline. References will be reviewed before short-list is determine. References other than those suggested by the firm. (Reference Check Form) A short-list of three to four firms.

Village of Ashville

owner

for Construction of a Water Processing Facility
project

Strand Associates

Firm

Qualifications Evaluation Form		
Criteria	Best Possible	Rating
1) Firm Proposals	5	
2) Project interest & understanding	10	
3) Firm's history	10	
4) Firm's ability & experience	10	
5) Personnel assigned to project	10	
6) Project approach (interest & understanding)	20	
7) Clarity & organization	5	
8) Related project experience	10	
9) Reference check (Reference Check Form)	Will be completed after interviews	
10) Fee for Phase 1	10	
Total	100	



"It is a place people will want to live, and businesses will want to locate."





Ashville, Ohio

Founded 1882

Village of Ashville

P.O. Box 195

200 East Station Street

Ashville, OH 43103

Office: 740/983-6367 • Fax: 740/983-4703

Email: ashvilleohio@ashvilleohio.gov



www.ashvilleohio.gov

Mayor

Charles K. Wise

Village Council

Nelson R. Embrey

President Pro Tempore

Roger L. Clark

Randy S. Loveless

R. David Rainey

Matt Scholl

Steve Welsh

Utility Committee

Roger L. Clark

R. David Rainey

Steve Welsh

Adam Kehoe *

James Welsh *

Franklin Christman *

Chad Noggle*

* Ex Officio Member

Clerk-Treasurer

April Grube

Planning & Zoning

Jason J. Bartholow, Chair

Bryan Brunton

Michael Peters

Matt Scholl,

Village Representative

Adam Trimmer, Inspector

Charles K. Wise, Mayor

Chief of Service

Gregory L. Sturgill

Tax Administrator

Patricia S. Cavinee

Personnel Director

Brian M. Garvine

Chief of Police

Jeffrey A. George

Chief of Wastewater

Adam P. Kehoe

Chief of Water

James R. Welsh

Village Administrator

Franklin Christman

Qualifications Evaluation Summary



Rank the firms' SOQs and select the top firms for short-list. A short list of three to four firms. Notify all firms of decision.

Evaluation Summary Table				
Reviewers	Firms - DLZ=A, Jones & Henry Engineers=B, & Strand & Associates=C			
	A	B	C	D
1				
2				
3				
4				
5				
6				
7				
8				
Total				



"It is a place people will want to live, and businesses will want to locate."