MEMORANDUM

TO: Mayor and City Council

FROM: Faye Stewart, Public Works & Development Director

SUBJECT: AWARD OF ENGINEER OF RECORD CONTRACTS

DATE: February 23, 2022

Background

In October of 2021 the City Engineer, Ron Bradsby announced his retirement effective December 23, 2021. The Public Works & Development Director researched how other similar sized cities met their engineering needs. In Lane County all cities except Eugene and Springfield have contracts with private engineering firms to provide City Engineering Services. The cities with contracted services spend $15,000 to $25,000 per year for day to day services such as application reviews for both building and planning applications. They also support the city staff with advice when making repairs or improvements to city infrastructure. Additional engineering services for projects are budgeted in both the City's capital improvement and reserve funds.

While researching options for provision of engineering services, a City Engineer job opening was posted on November 15, 2021 and closed December 3, 2021. The posting was advertised with LOC, APWA, the Register Guard, and the Cottage Grove Sentinel. Two applicants applied with one withdrawing one week after the job posting closed. Over the past 5 years there have been 5 postings for open positions in the Engineering Division. Two the postings closed with no applicants, one with 1 applicant, and finally two postings with 3 applicants with no experience or educational training in engineering. Presently the demand for individuals in the engineering profession far exceed the amount of available applicants.

The Current adopted City Engineering budget for 2021-2022 is $388,220 which includes 3 full time employees and operational expenses. Today there is one full time employee and a part time employee at 16 hours per week, less than half the funded positions. The current staffing level is causing delays in project designs, application reviews, approvals and project management. The difficulty in filling vacant positions still remains a reality.

Consulting with Legal Counsel a Request for Proposal (RFP) for City Engineer of Record was prepared. The RFP process began January 23, 2022 and closed on February 4, 2022. Two responses were received, one from West Yost and a second from Branch Engineering. Both engineering firms' proposals met the RFP requirements and provided a complete list of engineering services; water, wastewater, storm water, structural, surveying, geotechnical, and specialty (mapping, modeling, project management, contract administration, bidding & specifications, flood plain and flood way permitting, wetland

permitting, NEPA documentation, DEQ permitting, water rights, development review services, and transportation services). The Director and former City Engineer interviewed both firms asking questions about process, review times for applications, availability, how they work with other cities, billing rates, what support would be need from the City to perform their work, etc.

West Yost has a small office in Eugene and their primary specialty is in Water and Wastewater services. They have put together a team of 7 additional sub consultants to offer a complete line of engineering services to Cottage Grove. Most of the sub consultants are located around the state. West Yost is currently City Engineer of Record for Sweet Home. West Yost has worked on projects for both the water and sewer treatment plants.

Branch Engineering's main office is in Springfield where the majority of the engineers and professional staff work. Branch is currently the City Engineer of Record for Coburg, Veneta, and Harrisburg. Branch has designed street, water, sewer, and storm water improvements throughout the City. They have also performed traffic studies, surveying, and other special services for the City.

Both firms billing rates are similar with Branch being less overall. Both firms have worked for Cottage Grove and are very familiar with Cottage Grove's infrastructure.

The projects Cottage Grove is undertaking are becoming more complicated and require several different areas of engineering experts to design projects such as, civil, structural, surveyor, wetlands, geotechnical, etc. We often find we need to go out to bid for services or projects because specific expertise is required. It will save time, money, and be more efficient, if Cottage Grove contracted engineering services to firms that have the broad expertise on staff. An additional benefit having a contracted City Engineer of Record, is work can be direct awarded to the firms under contract, instead of having spent time sending out RFPs for specific services.

Staff is proposing contracting with both West Yost and Branch Engineering for City Engineer of Record services. Branch Engineering would be used for everyday engineering needs and West Yost would be used for water and wastewater treatment needs and projects they have designed such as the effluent re-use pond and irrigation system. West Yost would also be used if needs for service exceed Branch Engineering's capacity.

Recommendation

The Council move to approve the two Engineer of Record contracts with Branch Engineering and West Yost, as presented, and authorize the City Manager to sign those contracts and all associated documents, including task orders issued thereunder for projects included within the City's budget.

Cost

No cost at this time. Future costs will be based on engineering service provided by each firm.

Richard Meyers, City Manager

Faye Stewart, Public Works & Development Director

ORIGINAL

CITY OF COTTAGE GROVE

Proposal for Engineer of Record Services

FEBRUARY 4, 2022

WEST YOST

Water. Engineered.

WEST YOST
Water. Engineered.

5 Centerpointe Drive
Suite 130
Lake Oswego, OR 97035

503.451.4500 phone
530.756.5991 fax
westyost.com

February 4, 2022

Mr. Faye Stewart
Public Works & Development Director
City of Cottage Grove
400 E. Main Street
Cottage Grove, Oregon 97424

RE: Proposal for Engineer of Record (City Engineer) Services

Dear Mr. Stewart

West Yost Associates (West Yost) is pleased to offer our team's services to the City of Cottage Grove to serve as your City Engineer. The City needs a full range engineering services and we are proposing a complete team that meet all your engineering needs. There are several key attributes of our team that are essential to provide the City with a successful city engineer:

- A full service team you know and trust with experience in each area of expertise needed to support your community as City Engineer.
- West Yost has a proven commitment to work with Cottage Grove to assure your projects receive the highest priority.
- Our team is nearby and can respond quickly when you need assistance
- We have a deep bench with specialty consultant firms we are working with in a similar capacity in other Oregon communities.

Because we have current projects with the City, we understand that our team needs to be prepared to act quickly when the need for assistance is identified. We are committed to work collaboratively with the City, to provide effective project management, to apply our comprehensive quality assurance procedures on every project, and to be available to the City whenever there is a need.

Mel Damewood from our Eugene office will be your contact person for engineering services and for the negotiation of agreements. Corie Moolenkamp is authorized to sign any contracts. Thank you for the allowing us to present our qualifications and we look forward to the opportunity to continue to serve the City of Cottage Grove.

Sincerely,

WEST YOST

Mel Damewood, PE
Project Manager
503.451.2159
mdamewood@westyost.com

Corie Moolenkamp, PE
Vice President
503.601.9520
cmoolenkamp@westyost.com

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01 /// SPECIALIZED EXPERIENCE

Background

WEST YOST
Water. Engineered.

The City of Cottage Grove has requested qualifications for City Engineer of Record, including but not limited to, preliminary reports; project development; design surveys; preliminary and/or final design; preparation of environmental permitting compliance documentation and coordination of environmental project requirements with other consultants; preparation of bid documents; bid and award assistance; and construction services for typical CIP projects such as water, sewer, storm water, streets, pump stations, lift stations, reservoirs, and water and wastewater treatment facility improvements. West Yost provides the requested services as part of our core business focused on the Water Sector. Our example projects and on-call projects encompass all aspects of the requested services.

LOCAL OFFICES

- Portland, OR
- Eugene, OR

West Yost Experience in Delivering the City's Requested Services West Yost has more than 30 years of experience solving client needs through on-call planning, design, and construction management projects. West Yost's Oregon staff have been working with municipalities and agencies throughout the state for over 20 years. Our offices in Eugene and Portland, Oregon provide local experience, and our additional resources in Washington, California, and Arizona allow our technical depth to rival much larger firms. West Yost staff have credentials for sustainable planning and design, including EnvisionTM Sustainability Professionals. We have led on-call and task order based civil engineering services for CIP infrastructure or many municipalities throughout Oregon.

Our Oregon offices are home to 21 staff in Eugene and Lake Oswego. West Yost delivers high-quality products and provide excellent service to our clients. We have strong relationships with our subconsultants and strive to work seamlessly with our capable and experienced subconsulting firms.

West Yost currently serves as the City Engineer of Record for the City of Rainier and the City of Sweet Home.

Minimum Qualifications

This section covers the following minimum qualification criteria derived from the RFP. West Yost will also address the required compliance statements.

- A Civil Engineer licensed to work in the State of Oregon.
- An Equal Opportunity Employer and otherwise qualified to enter into the Engineering Service Contract.
- Insurance requirements.
- List of subconsultants.

Civil Engineer Licensed to Work in the State of Oregon

We have included an excellent team of engineers with engineering licenses from the State of Oregon. Full resumes for all tem members are included in **Appendix A.**

Contact Authorized to Represent West Yost and Serve as City Engineer

MEL DAMEWOOD, PE,
PROPOSED CITY ENGINEER
Phone: 503.451.2159
email: mdamewood@westyost.com
License: PE • Oregon #13672

"Serving as the City Engineer for Cottage Grove would be an honor, the City is progressive in its dedication to its citizens in providing critical services safely and in a cost effective manner, which is a value I have embraced over my career as an engineer and manager" - Mel Damewood, PE

West Yost is an Equal Opportunity Employer and otherwise qualified by law to enter into the Engineering Service Contract

Affirmation of Non-Discrimination

West Yost is an equal opportunity employer. West Yost is committed to providing a work environment free of harassment, discrimination, retaliation, and disrespectful or other unprofessional conduct based on:

- Race
- Religion (including religious dress and grooming practices)
- Color
- Sex/gender (including pregnancy, childbirth, breastfeeding or related medical conditions), sex stereotype, gender identity/gender expression/transgender (including whether or not you are transitioning or have transitioned) and sexual orientation
- National origin
- Ancestry
- Physical or mental disability
- Medical condition
- Genetic information/characteristics
- Marital status/registered domestic partner status
- Age (40 and over)
- Sexual orientation
- Military or veteran status
- Any other basis protected by federal, state or local law or ordinance or regulation

Insurance

West Yost is able to furnish proof of insurance of $2 million professional liability insurance and $2 million comprehensive and automobile liability insurance. We can provide proof of coverage by Workers' Compensation Insurance. Insurance documents are found in **Appendix B.**

West Yost has included local subconsultants to provide the City with comprehensive as-needed services

- **ACE Engineering, LLC**
  Structural Engineering
- **Civil West Engineering Services**
  Civil Engineering
- **Interface**
  Mechanical Engineering
- **Foundation Engineering**
  Geotechnology
- **K&D Engineering**
  Surveying
- **Landis Consulting**
  Electrical Engineering
- **Pacific Habitat**
  Wetland Survey
- **Sandow Engineering**
  Traffic Engineering

Specialized Qualifications

Water and Wastewater Treatment Services

West Yost's water treatment group is a cohesive team that brings expertise in every aspect of drinking water and wastewater systems. On the water side, West Yost provides specialists in gravity fed membrane filtration systems, intake design, and regulatory conformity, municipal ground and surface water rights, and water quality management. On the wastewater side, we have specialist in collection system facilities to wastewater and biosolids treatment systems, and to discharge and recycled water facilities. We provide a full-service approach across the entire spectrum of disciplines applicable to the water and wastewater industry, and our team's unique ability and experience working on projects from permitting through construction bring intrinsic value to our projects and our clients. West Yost's water and wastewater services include:

- Permitting and Regulatory Compliance
- Treatment Process Modeling
- Treatment Facilities Planning and Design
- Water Distribution and Collection System Modeling
- Water Distribution and Collection System Planning and Design
- Recycled Water Facilities Planning and Design
- Water and Wastewater Systems Master Planning
- Infrastructure Rehabilitation
- Condition Assessments
- Funding Strategies and Assistance
- SCADA Programming and Planning/Cybersecurity
- Program Management
- Construction Management
- Wastewater Systems Planning

Pipelines, Pump Stations, Reservoirs and Trenchless Projects

West Yost offers deep experience in all aspects and phases of water and wastewater utility infrastructure design and delivery, including: feasibility studies and planning; water quality analysis and pilot studies; economic and life cycle cost analysis; hydraulic system modeling and transient analysis; regulatory and permitting assistance; treatment and advanced treatment facilities; gravity and pressure pipeline design; grants and funding support; operational support and troubleshooting; and, construction management and inspection.

Working as a trusted advisor and extension of staff, West Yost brings an understanding of infrastructure and needs for thoughtful and cost efficient projects and designs, from project conceptualization through construction. We offer a strong local team in our offices in Eugene and Lake Oswego, with the ability to leverage additional resources and expertise as required from our other offices. When needed, our team has experts who can be pulled in on projects for value engineering, constructability, and operations reviews that will improve project cost estimating and reduce risk.

In addition to the key design considerations identified above, another key component for delivering cost effective design services for pipelines, pump stations, and reservoirs is the collecting and use of background information and standards, such as:

- GIS Mapping
- Design Standards and Details
- Public Works Standards
- Record Drawings and Mapping Updates

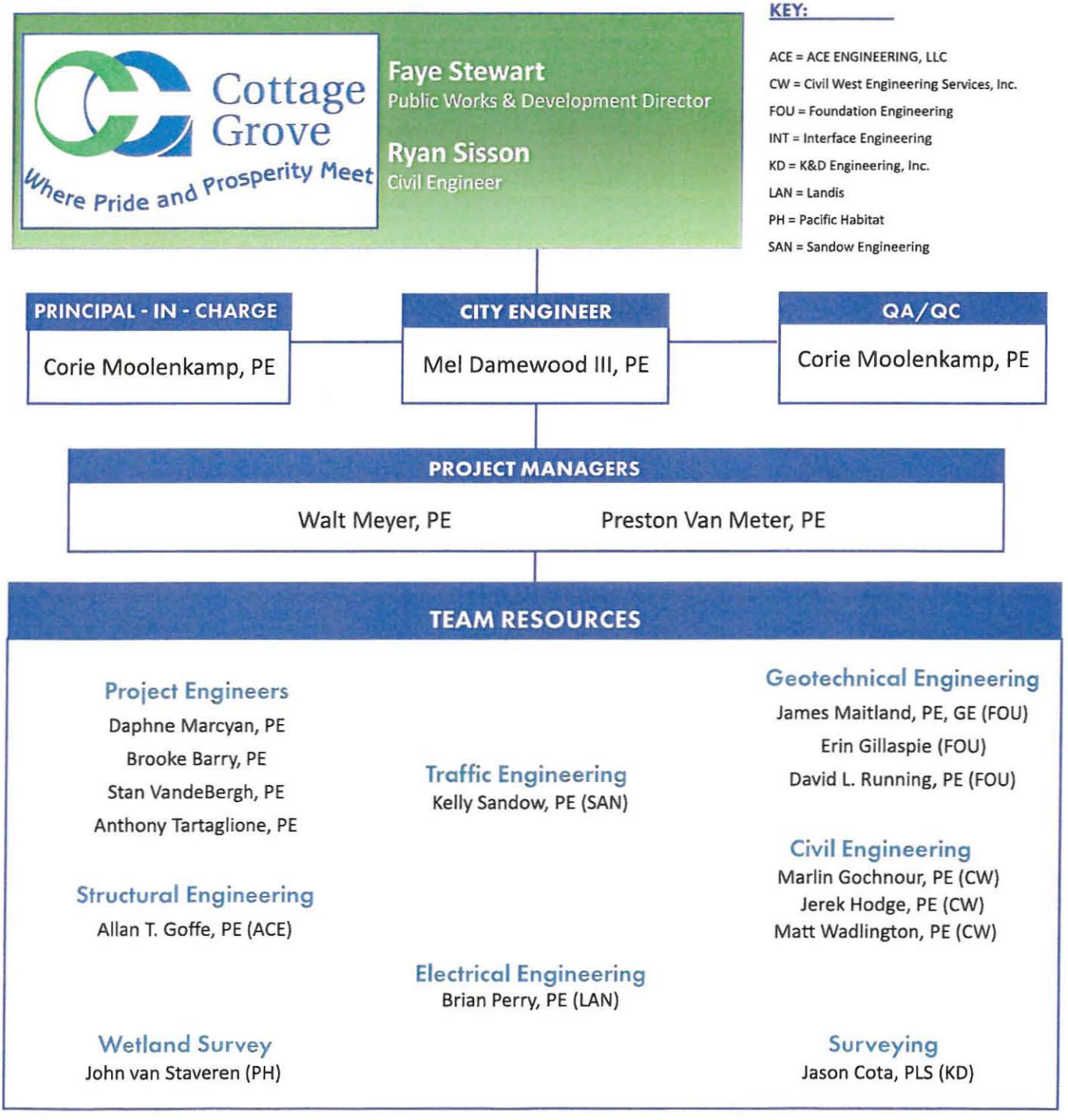
The City has outlined a comprehensive list of services to be provided by the City Engineer of Record.

In Section 2, we introduce the rest of the West Yost team to cover the remainder of services required.

02 /// TEAM QUALIFICATIONS & EXPERIENCE

The West Yost Team

West Yost has a team of local project managers, project engineers, support staff, and key subconsultants currently working on similar on-call assignments for many other local Oregon municipalities and agencies. The members of our team are well known to the City and include proposed City Engineer, **Mel Damewood** supported by **Corie Moolenkamp** (PIC,QA/QC), **Preston Van Meter** (Project Manager, QA/QC), and **Walt Meyer** (Project Manager). We have added specialty subconsultants who have a long history of successful projects across Oregon. We have highlighted our team in the organizational chart below and included biographies in this section. We also have included resumes in Appendix A for all key team members highlighted in the chart.



Team Organization

To help you achieve your project goals, we offer a team with deep experience in infrastructure design, utilities coordination and public outreach. Our team includes specialized subconsultants with experience in documentation and survey. Resumes for our team are included in **Appendix A**.

Mel Damewood III, PE

CITY ENGINEER

PERCENT AVAILABLE: 30%

As a former utilities manager and executive for Eugene Water & Electric Board, Mel Damewood has in-depth knowledge of the nexus between policies, planning, engineering, and operations across diverse Utility and City infrastructure . Mel uses his engineering and management experience to fulfill strategy and planning compliance, including development of, interpreting and implementing policies and procedures that balance both the needs of the public entity and demands of the public at large. Mel's experience at EWEB is unsurpassed with public facing roles, Board and Council relationships, as well as internal relationships to accomplish goals and objectives.

RELEVANT EXPERIENCE

- **Eugene Water & Electric Board, Eugene, OR:** Chief Engineer, Chief Engineering & Operations Officer, Chief Water Officer. Provided leadership responsibilities for master planning, capital improvement planning, and annual capital improvement budgets and implementation for EWEB's Water, Electric, Hydroelectric and Fiber utilities. On-going work included rate studies, systems development charge annual adjustments and methodology reviews, development and implementation of customer policies and procedures, engineering standards, and standard operations procedures.
- **West Yost, Eugene OR, 2018 America's Water Infrastructure Act (AWIA):** Project Manager. Led several clients across the west coast in complying with the EPA's AWIA all-hazards risk and resilience assessments and emergency response plans. Developed risk and resilience management strategies to be implemented into clients O&M and capital improvement plans. Led development of emergency response plans and table top exercises to prepare utilities and cities in efficiently responding to different hazards that are appropriately applied to the client.

Corie Moolenkamp, PE

PRINCIPAL - IN - CHARGE, QA/QC

PERCENT AVAILABLE: 20%

Corie is a professional engineering manager who has progressive experience in the management, design and construction management of water storage, water and wastewater pumping and conveyance facilities, as well as water and wastewater treatment. She has been involved in several planning projects including work on wastewater facilities plans, water supply and distribution plans and water rights. She brings a significant amount of local knowledge to the team, as all of her professional work has been municipal in nature and focused in Oregon. In addition to technical work, Corie has successfully managed projects from $5,000 to $15 million in fees. She is well-versed in the financial, organizational, and resource allocation aspects of public works projects.

RELEVANT EXPERIENCE

- **Grabhorn Reservoir Replacement Owner's Representative and Project Management, Tualatin Valley Water District (TVWD), Beaverton, OR:** Project Manager responsible for providing Owner's Representative and Project Management services to assist TVWD with the Grabhorn Reservoir Replacement Project. Conducted collaborative workshops with TVWD to rank and select the preferred project delivery method – Progressive Design Build. Managed the process to meet Oregon Revised Statue 279C.335 and obtained TVWD Board approval.
- **Ridgewood View Reservoir and Pump Station Improvements, Tualatin Valley Water District (TVWD), Beaverton, OR:** Design Manager/Project Manager for the replacement of an existing 5 MG partially buried circular D110 Type tank with a new, 8 MG 5-sided reinforced concrete tank. Corie managed the land use process and was responsible for obtaining permits for the project. She finalized design coordination, and performed quality control reviews and coordination checks on the technical specifications and drawings. Corie managed the construction phase support for TVWD with a challenging contractor who required her to provide technical defense for TVWD through construction claims and change orders.

Preston Van Meter, PE

PROJECT MANAGER

PERCENT AVAILABLE: 25%

Preston is a civil engineer with 26 years of experience on a diverse array of projects of all types and sizes. Over his career he has served as a trusted advisor providing services as City Engineer for nine Oregon communities, including: Keizer; Sheridan; Donald; Hubbard; Dundee; Vernonia; Rainier; Madras; and Sweet Home. Most recently, Preston served as the City Engineer-of-Record for City of Sweet Home and Project Manager for the City of Sweet Home's $30 Million Wastewater Treatment Plant Improvements Project.

In addition to leading the design of all types and sizes of municipal projects, Preston has a deep understanding of the diverse array of services required of the City Engineer-of-Record, ranging from providing engineering support for the City's Planning Department on private development applications and submittals, to quickly responding to inquiries from Public Works field staff related to utility operations and maintenance. He has a strong reputation for superior client service and responsiveness that is an asset for on-call and as-needed contracts.

Preston is also a recognized wastewater treatment expert who has delivered major WWTP upgrades and expansion on projects throughout the Western United States with services including initial planning and conceptual design, permitting, final design, bidding ,and construction administration. He has also participated in and led value engineering studies for several wastewater treatment and infrastructure projects.

RELEVANT EXPERIENCE

- **City Engineer-of-Record, City of Sweet Home, OR:** Current City Engineer and Project Manager leading a $30M WWTP expansion, Water Master Plan, Storm Water Master Plan, Small Diameter water main replacement program, annual street overlay program, WTP upgrades and numerous other public works projects with the many of the partners included on West Yost's Team.
- **City Engineer-of-Record, City of Rainier, OR:** Current City Engineer leading a Water Master Plan Update, Fox Creek Fish Culvert Feasibility Study, WWTP evaluation and filter upgrades, various storm water improvements projects and other public works projects with many of the partners included on West Yost's Cottage Grove Team.

Walt Meyer, PE

PROJECT MANAGER

PERCENT AVAILABLE: 25%

Walt Meyer is an engineer with experience in water and wastewater planning, design, and construction. He has managed multi-disciplined project teams for various water, wastewater, storm water, and environmental services projects. Walt has directed facilities planning for wastewater programs for many communities and also has extensive design experience including wastewater treatment plants, pumping stations, large diameter pipelines, and water facilities. He has managed infiltration/inflow assessments, sludge management evaluations, financial plans, environmental assessments, and rate studies for many communities. Walt is very familiar with Oregon's water quality standards and has a history of successful negotiation with regulatory agencies on behalf of clients.

RELEVANT EXPERIENCE

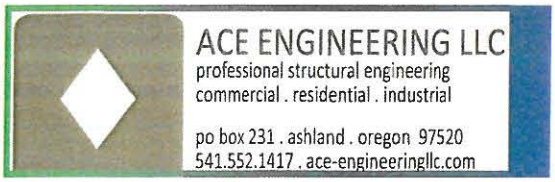
- **Water Master Plan, City of Creswell, OR:** Principal-in-Charge directed the water system planning, design and construction for Creswell's water system, including design of the water treatment plant, distribution system model and master plan, and new water wells.
- **Water System Master Plan, Eugene Water and Electric Board (EWEB), Eugene, OR:** Managed the preparation of EWEB's 2015 Water System Master Plan, which addresses resiliency and optimization of the water distribution system for cost effective operation. The plan included an assessment of existing demands and projects demands until build-out of the urban growth boundary. The plan also addresses specific projects to optimize operation and improve redundancy and resiliency and includes a 20-year capital improvements plan to implement the projects.

Specialty Subconsultants

Full resumes are included in Appendix A

	Allan T. Goffe, PE, SE ACE ENGINEERING, LLC Structural Engineering Availability: 50%	Allan founded Ace Engineering in January 2004 upon relocating to Southern Oregon. Allan is directly responsible for the structural planning and design of each project. Ace Engineering provides consulting structural engineering services for all types of buildings, including commercial, industrial, and challenging residential designs.
	Marlin Gochnour, PE, SE Civil West Engineering Services, Inc Civil Engineering Availability: 25%	Marlin has been in the engineering field since 2000. He has provided engineering services for private sector and municipal clients as well as the National Park Service. Marlin is experienced in, and has carried, multiple projects through all stages of the development process; from identifying initial concepts, survey, preliminary design, final design, agency approval(s), bidding, construction staking, construction management, and construction inspection.
	Jerek Hodge, PE Civil West Engineering Services, Inc Civil Engineering Availability: 40%	Jerek has 20 years of experience that includes water plant, wastewater plant, and pump station design. During his nearly 2 decades of experience, he has designed multiple pump stations, water treatment plants and forcemains. Jerek has also been involved in the planning and inspection of several Telemetry/ SCADA system improvements and backup power generator projects.
	Matt Wadlington, PE Civil West Engineering Services, Inc Civil Engineering Availability: 30%	During his 24 years as a professional engineer, Matt has managed the planning and design for municipal transportation, water, wastewater, stormwater, and site development projects. He has coordinated with clients, local government agencies and subconsultant staff for successful completion of over 300 different projects in Oregon, Washington, California and Arizona.
	James K. Maitland, PE, GE Foundational Engineering Services, Inc. Civil Engineering Availability: 50%	Jim Maitland has 43 years of experience as a geotechnical engineer, including 25 years as Principal and Owner of Foundation Engineering, Inc. He has served on numerous civil engineering and geotechnical engineering projects involving site characterizations for utilities, roads, embankments, airports, bridges, office buildings, parking structures, hospitals, schools, jails, and medical clinics.
	Erin Gillaspie Foundation Engineering Services, Inc. Geotechnical Availability: 40%	Erin is a geotechnical project engineer at the Corvallis office of Foundation Engineering, Inc. He has performed foundation and geotechnical investigations, engineering analysis and design, subsurface investigations, construction observation, report preparation, and laboratory and field testing.
	David L. Running, PE, GE Foundation Engineering Services, Inc. Geotechnical Availability: 30%	Dave has over 24 years of geotechnical engineering experience and has completed geotechnical investigations for a wide range of projects including airports, buildings, bridges, culverts, dams, industrial facilities, landslides, levies, pipelines, reservoirs, roads, water and wastewater treatment and transmission facilities, and seismic hazard studies. Dave has completed numerous water and wastewater storage, treatment, and transmission line projects and numerous projects in Eugene and Springfield. Dave is currently the geotechnical lead for on-call services for the Eugene Water and Electric Board (EWEB) projects. He was also the lead for the seismic evaluation of City of Eugene bridges.
	Steve Dacus,PE Interface Engineering Mechanical Engineering Availability: 30%	Steve is a leader who enjoys pulling together members of his team to achieve a common goal on a project. He has designed many different and innovative HVAC systems and is passionate about how architectural, electrical, and mechanical systems impact energy efficiency of buildings. Steve is focused on applying his past experience to solve future challenges. He combines his knowledge of energy consumption and building systems to create designs that exceed client's expectations for performance and efficiency.
	Cody Bargholz, PE Interface Engineering Mechanical Engineering Availability: 30%	Cody has fourteen years of design, project management, construction supervision and cost estimation experience. His area of specialties include schools, historical buildings, libraries, recreational centers, and health care facilities. Cody designs medium and low voltage power distribution systems as well as lighting, lighting control, grounding, structured cabling, fire alarm and security systems. He is an award winning lighting designer, LEED Accredited Professional, Certified Lighting Consultant and a Certified Technology Specialist.
	Tracy Bethel, CPD Interface Engineering Mechanical Engineering Availability: 30%	With over 25 years of experience, Tracy has managed various project types and sizes, from single floor renovations to multimillion dollar institutional complexes. As a Plumbing/Fire Protection Designer, he has designed virtually every type of project, including sporting venues, military, health care, laboratory, office, correctional, industrial facilities and residential construction. Tracy has designed projects internationally and domestically and brings extensive experience in the design of military projects for federal agencies.
	Jason Cota, PLS K&D Engineering, Inc. Surveying Availability: 35%	Jason works as a survey manager for K&D Engineering, Inc and has provided Professional services for many Public Works projects. Those services include topographic surveys, base maps and pre-construction monumentation survey provided directly to the Municipality or to the engineering firm designing the project. Jason is responsible for boundary resolutions, coordinate survey field crews, and preparing record of surveys and plats.
	Ben Perry, PE Landis Consulting Engineers Electrical Engineering Availability: 5-10%	Ben is the Engineer of Record for Landis Consulting. He manages projects for the municipal water and wastewater industries as well as K-12 and healthcare projects in the AEC industry. His designs are clear, simple, and practical. They weave together cost-efficiency, constructability, and technical expertise. Ben Perry and Landis Consulting have earned a reputation in the AEC industry for client service, thoughtful designs, creativity, constructability, and minimal change orders.
	John van Staveren Pacific Habitat Wetlands Survey Availability: 35%	John has over 33 years of natural resource consulting experience throughout the Pacific Northwest and California. His expertise includes wetland science, endangered species consulting, state, federal and local permitting, and restoration ecology. He has served on four state-appointed Technical Advisory Committees concerning wetland and environmental policy in the State of Oregon, authored a methodology for defining riparian areas for Statewide Planning Goal 5 and is the chair of a statewide non-profit organization.
	Kelly Sandow, PE Sandow Engineering Traffic Engineering Availability: 40%	Kelly leads the Sandow Engineering team with 20 years of experience and knowledge in transportation planning, traffic operations, and technical transportation analysis. She has completed more than 500 traffic impact studies ranging from small scale development projects to large Transportation System Plans throughout the State of Oregon.

Subconsultant Firm Introductions



ACE ENGINEERING

Since 2004, ACE ENGINEERING has provided structural engineering design services for commercial, industrial, and institutional projects as well as challenging residential design.

CIVIL WEST

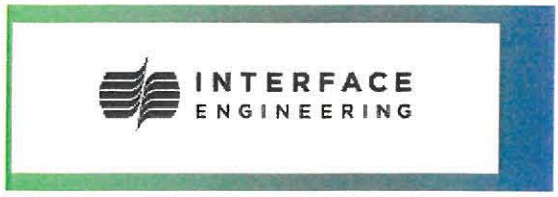
Civil West Engineering Services is a full-service engineering firm focused on providing planning, design, and construction phase support services to clients throughout Western Oregon. Founded in 2008, Civil West has been committed to providing high-quality services that exceed expectations and result in superior value and success for our clients.

Over the last 14 years, Civil West has grown to include four offices and 27 professionals who are skilled in all facets of engineering. Our staff of civil, mechanical, and electrical engineers represent more than 350 years of combined experience, and hold professional registrations in Oregon, California, Washington, and beyond.

Rather than locating offices in large cities, Civil West has strategically placed offices to allow our staff to live and work among the clients we serve. This allows us to manage projects locally to ensure regular interaction with our clients.

FOUNDATION ENGINEERING

Foundation Engineering is an Oregon-based consulting firm that has provided geotechnical design and construction monitoring services since it began in Corvallis, Oregon in 1982. We provide a full range of geotechnical engineering, foundation analysis, geologic and seismic risk assessment, and design services for cities, counties, architects, engineers, public agencies, and private industry throughout Oregon.



INTERFACE

Interface Engineering is a multidiscipline mechanical and electrical engineering firm known for innovative resource use, visionary sustainable design and breakthrough engineering solutions for new and existing buildings. Our work demonstrates how integrated design and creative can produce outstanding results — for our clients, our community and our environment.

K & D ENGINEERING, INC.

K & D Engineering, Inc., is a consulting, civil engineering, surveying, construction management, and land planning firm that performs work in the areas of, property boundary surveying, topographic surveying, municipal and private engineering, construction management/contract administration and inspection, and land planning.

LANDIS ENGINEERING

Landis Consulting is an electrical and controls engineering firm founded in 2001. We are a small firm and focus solely on electrical systems. We have seven (7) employees. While we are a small firm, we have a proven history of delivering excellent results on projects of various sizes and complexities. Over the last few years, we have provided the electrical design for projects ranging in size from $200k to $200MM. We have talented, creative staff who are passionate about delivering high quality engineering designs.

PACIFIC HABITAT

Pacific Habitat Services, Inc. (PHS) is a multidisciplinary environmental consulting firm established in 1993. They are one of the most experienced and well-respected natural resource consulting companies in Oregon. They offer professional expertise in the disciplines of permitting, wetland science, endangered species consulting, wildlife and fisheries biology, hydrology, soil science, botany, permitting, NEPA, and restoration design and implementation. They have excellent relationships with State and Federal regulatory agencies and have extensive experience gaining permits and approvals.

PHS has a long history of working on on-call projects with Oregon cities and counties requiring versatility and experience to cover a wide variety of projects. They currently have ten (10) on-call contracts that cover projects ranging from water and wastewater infrastructure, transportation projects, and park and trail projects. PHS has also conducted numerous projects throughout Lane County, including the Chambers Covered Bridge project for the City of Cottage Grove and ODOT.

SANDOW ENGINEERING

Sandow Engineering is a full-service transportation engineering firm owned and operated by Kelly Sandow PE. Kelly established Sandow Engineering (SE) in 2013, to follow her vision of providing innovative, context sensitive, design and planning solutions for transportation systems throughout the State of Oregon. Kelly leads the Sandow Engineering team with 20 years of experience and knowledge in transportation planning, traffic operations, and technical transportation analysis. She has completed more than 500 traffic impact studies ranging from small scale development projects to large Transportation System Plans.

Project Management Approach for On-Call Services Contracts

In serving as City Engineer-of-Record, our team will be working closely with City staff through all phases of project development. This process of supporting projects from initial budgeting and capital planning through design and construction will improve project implementation and cost control while also adding insight and innovation into the process to help maximize the City's investments.

We use clear and effective communication and budget and scheduling tools to manage projects. Under the leadership of proposed City Engineer, Mel Damewood, who is well known to the City and has vast experience in similar roles while working at EWEB. West Yost assigns experienced project managers to lead projects throughout all phases to minimize schedule disruptions, maximize understanding by all parties, and keep the project moving forward. Through open communication and regular project check-in meetings, we will foster an efficient team environment.

West Yost uses demonstrated project management tools on all projects to monitor project budget and schedule, allocate staff resources and identify critical items that may impact the project early.

PROJECT MANAGEMENT PLAN

- Objectives
- Scope
- Schedule
- Budget
- Team and roles
- Contact information

WEEKLY CHECK-INS

- Meeting agendas and minutes
- Team action items and decision logs
- Hours tracked using real-time accounting reporting tools

PROGRESS MEETINGS

- Meeting agendas and minutes
- Project schedule
- Progress updates
- Identify new project action items and decisions
- Finalize decisions

OVERALL PROJECT

- Planned versus actual progress and expenditures
- QA/QC
- Monthly invoices

03 /// LAWS, REGULATIONS, & LOCAL EXPERIENCE

Laws & Regulations

This section summarizes West Yost's familiarity with laws and regulations governing public water, wastewater, storm water, and transportation systems, including operations, construction and maintenance of the City's current systems.

Federal, State and Local Regulations

For more than 30 years, West Yost has worked with federal, state, and local agencies on regulatory and funding for infrastructure projects.

The process of obtaining environmental clearance for any project can be difficult and time-consuming. If environmental issues are not addressed early in the design process, the construction of a project can be delayed for months or even years.

West Yost staff have extensive experience successfully completing projects with a multitude of environmental issues, including developing documentation for obtaining NEPA/SEPA/CEQA clearance, and obtaining permits from agencies, such as the:

- Oregon Department of Environmental Quality (DEQ),
- Oregon Health Authority (OHA),
- Oregon Department of Fish and Wildlife (ODFW),
- Oregon Department of State Lands (DSL),
- Environmental Protection Agency (EPA) Region 10,
- US Fish and Wildlife (USFW),
- National Marine Fisheries Service (NMFS),
- Department of Fish and Wildlife,
- U.S. Army Corps of Engineers
- City permitting authorities, local building officials and other agencies

At the start of a project or task order, the West Yost team develops a Permitting Road Map that summarizes the permits required, permit application forms, permit fees, information required, design stage and other pertinent information to make sure projects are kept on track to start construction on time. Typically, early coordination with permitting agencies, such as attending an Oregon regional permitting agency review will speed the permitting process and help assure important permitting considerations are incorporated into designs.

West Yost's has helped dozens of Oregon agencies negotiate complex environmental and regulatory permitting challenges, including:

Lebanon, OR WWTP: Assisted with NPDES Permit compliance associated with the WWTP outfall

Corvallis, OR Taylor WTP and WRP: On-call contract for NPDES permit negotiations and led permitting and design for the Taylor WTP Intake Modifications and Dredging Project

Cottage Grove, OR WWTP: Assisted with NPDES permit compliance and updating the City's Recycled Water Use Plan

Clackamas County Water Environment Services: Regulatory Lead for current facility plan update

Clean Water Services: Assisted with NPDES permit evaluations and DEQ negotiations

Medford, OR WWTP: On-call contract to assist with NPDES permit negotiations, including temperature compliance plan and implementation of a temperature trading program

Salem, OR Willow Lake WPCF: Permitting lead for the City's "bubble" NPDES permit covering Willow Lake WPCF and North River Road Peak Excess Flow Facility

South Suburban Sanitary District: Assisting with current NPDES permit negotiations with DEQ

Stayton, OR WWTP: Assisted City with NPDES permit compliance and DEQ negotiations

Portland BES: Assisted with NPDES permit negotiations associated with the Columbia Blvd. WWTP outfall

Wilsonville, OR WWTP: Regulatory Lead for the current facility plan update

Local Resources and Community Involvement

West Yost has gathered a team of professionals that is focused on the use of local resources for the City of Cottage Grove. The West Yost office in Eugene is approximately 25 miles from Cottage Grove, so response time will typically be less than one hour if needed on site. Also, with our team of professionals, all are located in Oregon, most located in the southern Willamette Valley within approximately one hour's drive to Cottage Grove. Given the team's location to Cottage Grove, there is familiarity with local and public facing issues. The West Yost team is experienced in public involvement processes and recognizes the benefits of early community engagement and acceptance. The team is experienced in public involvement and council briefings for rate setting, development and economic growth proposals, master planning acceptance and other important issues that are vital to the success of the City.

Approach to Transportation/ Roadway and Stormwater Projects

Transportation and roadway projects are the most publicly visible projects the City will undertake and an important part of the demonstrating the City's commitment to investing and maintaining its infrastructure systems. These projects also serve as a daily reminder to residents of the wise investments being made by the City in the future of the Cottage Grove community. West Yost approach to transportation and storm water projects includes:

1. **Development of Long Range Plans and Updating the City's 5-year CIP.** Updating the City's long-range plans will help inform the projects that need to be included in the City's 5-year Capital Improvement Program that is reviewed and approved by City Council. For transportation and stormwater, these plan updates include the City's Transportation System Plan (TSP) and Storm Water Master Plan (SWMP).

2. **Identifying CIP needs early and seeking outside funding sources.** Establishing project budgets through master plans and setting appropriate rate structures will help encourage outside funding agencies like Business Oregon to provide additional funding through local, state and federal programs. The City of Sweet Home is one of Oregon's leaders in obtaining outside funding which the West Yost team will continue to support as City Engineer-of-Record.

3. **Consolidating and coordinating projects will maximize City investments.** Consolidating projects from multiple utilities into a single project will improve project coordination, reduce the impact of construction on Cottage Grove residents and maximize the City's investments. For example, consolidating a planning water main replacement along with a sanitary sewer rehabilitation and street overlay on a specific street would maximize the City's infrastructure investments from three separate master plans.

04 /// REFERENCES AND PROJECT EXPERIENCE

West Yost has recent experience performing and managing active on-call contracts with over 60 clients, including more than 20 current on-call contracts for wastewater engineering design services. Our success working on on-call contracts comes from our ability to respond quickly with the right blend of staff, creating teams that have the appropriate skills and experience to bring innovative solutions to your projects.

Experience

West Yost's on-call contract success is based on our people and our ability to respond quickly to project needs, work seamlessly as an extension of the client's team, and develop innovative solutions for large and small projects. Our clients with on-call contracts benefit from our depth of expertise, our extensive range of water specialties, our local staff, and our commitment to quality products and services.

Oregon On-Call Contracts

West Yost currently has active on-call contracts with the following Oregon agencies:

CURRENT ON-CALL CLIENTS

- City of Albany
- City of Corvallis
- City of Hillsboro
- City of Lake Oswego
- City of Portland, Bureau of Environmental Services (BES)
- City of Portland, Portland Water Bureau (PWB)
- City of Sweet Home - City Engineer of Record
- Clackamas River Water
- Clean Water Services
- Eugene Water and Electric Board
- Joint Water Commission
- Sunrise Water Authority
- Tualatin Valley Water District
- City of Rainier - City Engineer of Record
- City of Salem
- City of Wilsonville

Reference Oregon On-Call Contracts

City Engineer of Record
CITY OF SWEET HOME, OR

REFERENCE: Mr. Greg Springman, Public Works Director, 541.367.6359, gspringman@ci.sweet-home.or.us; **TEAM:** Preston Van Meter (Project Manager); **DATES:** 2020 - present

Services provided: General City Engineering support services, WTP Disinfection System SCADA Upgrades, WTP Backwash and Finished Water Pump Station Upgrades, WTP Standby Generator Improvements, 2-inch Water Main Replacement Program, Lebanon, Albany and Sweet Home Regional Biosolids, Composting Feasibility Study, AWIA Risk and Resiliency Assessment and Emergency Response Plan.

City Engineer of Record
CITY OF RAINIER, OR

REFERENCE: Ms. Sue Lawrence, Public Works Director, slawrence@cityofrainier.com, 503.396.1736; **TEAM:** Preston van Meter (Project Manager), Corie Moolenkamp (Project Engineer); **DATES:** 2021 - present

Services provided: Roadway geometric design, stormwater design, Master planning and modeling and asset management, water pump stations, trenchless projects, pipeline rehabilitation, water and wastewater treatment, SCADA/Programming and AWIA Compliance, cost estimating, constructability reviews, and value engineering.

On-Call Services Contract
CITY OF ALBANY, OR

REFERENCE: Ms. Staci Belcastro, PE, City Engineer, 541.917.7645, staci.belcastro@cityofalbany.net; **TEAM:** Walt Meyer (Project Manager), Corie Moolenkamp (Principal); **DATES:** 2017 - present

Services provided: Wet weather lift station design, wastewater solids handling design improvements, pump station design and engineering during construction, interceptor, water treatment study and design.

On-Call Services Contract

CITY OF CORVALLIS, OR

REFERENCE: Mr. Tom Hubbard, Public Works Utilities Maanager, 541.754.1752, tom.hubbard@corvallisoregon.gov; **TEAM:** Walt Meyer (Project Manager); **DATES:** 1997 - present

Services Provided: Wastewater permitting, lift station, water pump station, conveyance improvements planning and design, wastewater facility plan, emergency response planning, raw water intake improvements, water treatment plant improvements.

> **"The team-work approach between the City and West Yost was critical to the successful completion and implementation of this project. West Yost was responsive to staff concerns and input, and a long-term partnership was established that Corvallis anticipates will benefit both our staff and customers."**
>
> **—Mr. Tom Penpraze**
> **Utilities Division Manager, Retired**
> **City of Corvalis**

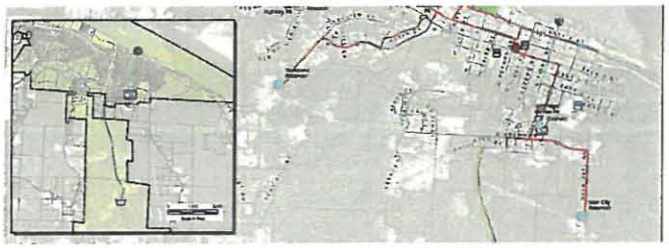
Project Experience

Wastewater Treatment Plant Improvements Project, Influent Pump

Station Upgrades
CITY OF SWEET HOME, OR

REFERENCE: Mr. Greg Springman, Public Works Director, 541.367.6359, gspringman@ci.sweet-home.or.us; **TEAM:** Preston Van Meter (Project Manager); **DATES:** 2020 - present

Services provided: West Yost is completing Final Design of the Sweet Home Wastewater Treatment Plant (WWTP) expansion project, which focused on rehabilitation, reuse, and re-purposing of existing WWTP unit processes and upgrades to increase capacity from 7 MGD to 12 MGD. The project includes rehabilitation and capacity expansion of the existing WWTP influent pump station (IPS) to provide pumping capacity ranging from low flows less than 0.50 MGD to winter peak flows of nearly 13 MGD. IPS Upgrades included reusing and rehabilitating the existing 18-inch diameter wet well and installing new submersible pumps: one Hidrostal pump in the pre-rotation basin for low flows and cleaning operations and four Flygt submersible pumps. This approach saved the City approximately $2.5 million compared to construction of a new influent pump station. The project is currently in final design.



Water System Master Plan
CITY OF RAINIER, OR

REFERENCE: Ms. Sue Lawrence, Public Works Director, slawrence@cityofrainier.com, 503.396.1736;
TEAM: Preston Van Meter (Project Manager), Corie Moolenkamp (Project Engineer); **DATES:** 2021 - present

West Yost recently completed the City of Rainier's Water System Master Plan (WSMP). The City's WSMP included an analysis of the water systems performance criteria and level of service requirement. This translated into a developing and calibrating a hydraulic model to test the capabilities of the existing water system to meet future requirement. The WSMP included the new requirements to evaluate the seismic risk assessment and mitigation plan and developing a capital improvement program that the City can utilize in financial planning and rate setting actions.

Riverfront Interceptor Wet Weather Lift Station and Force Main

CITY OF ALBANY, OR

REFERENCE: Mr. Chris Cerklewski, Project Manager, 541.917.7646, chris.cerklewski@cityofalbany.net;
TEAM: Walt Meyer (Project Manager); **DATES:** 2018-2020

In 2019, West Yost provided predesign, design, and construction services for a new wet weather lift station and force main and for rehabilitating the Riverfront Interceptor for the City of Albany, Oregon. The Riverfront Interceptor is the primary pipeline that conveys wastewater from the City to the Water Reclamation Facility; it ranges from 30 to 54 inches, is a deep pipeline, and is very close to both the Willamette River and to an active railroad line. The force main and lift station are used to bypass the interceptor during peak wet weather flows. This bypass and rehabilitation resolved problems with sanitary sewer overflows into the Willamette River and was less costly than replacing the interceptor.

The lift station and force main trench were close to the railroad tracks. The centerline of the 1.5-mile-long force main came within seven feet of the tracks in places. The lift station excavation was near a private parking lot, city property, and the river. The site required significant and deep shoring. West Yost designed a cured-in-place pipe to rehabilitate the interceptor to alleviate structural defects and to prevent infiltration and inflow from leaking joints, root intrusion, and other conditions.

The project design and construction needed to accommodate challenging physical constraints. Residents were concerned about retaining the natural view of the river and thus improvements were designed to reduce visual obstructions. The lift station easement was only 32 feet by 40 feet and between the Dave Clark pedestrian trail along the Willamette River and the railroad. The concrete diversion structure was built on top of the interceptor sewer and below grade. The electrical controls building had to be above ground and was oriented to reduce obstructions of the river and was designed to match the historical architecture of the neighborhood.

"We were very pleased with West Yost throughout the predesign, design, and construction support phases of their work on the project."

Project design was challenging due to the preferred project site being severely constrained between the Willamette River and an active railroad track. West Yost and their project team produced a design that met all the project requirements and was successfully constructed on time and under budget. A few months after the project was completed, the facility received a real-world test when Albany experienced a large (5-year) rainstorm. The new facility automatically activated, successfully diverted sewer flows and prevented a sewer overflow to the Willamette River. We are very happy with the project and look forward to working with West Yost again in the future."

—Chris Cerklewski, PE
City of Albany - Public Works, Engineering

A /// APPENDIX

Resumes

Mel Damewood III, PE

Principal Engineer

As a former utilities manager and executive for Eugene Water & Electric Board, Mel Damewood has an in-depth knowledge of the nexus between public involvement, policies, planning, engineering and operations across diverse utility and city infrastructure. Mel uses his engineering and management experience to fulfill strategy and planning compliance, including development of, interpreting and implementing policies and procedure that balance both the needs of the public entity and the demands of the public at large. Mel's experience gained while serving a career at EWEB is unsurpassed with public facing roles, Board and Council relationships, as well as being skilled at developing internal relationship to accomplish goals and objectives.

STAFF TITLE: Principal Engineer I

YEARS OF EXPERIENCE: 36

PROFESSIONAL REGISTRATIONS

- Professional Civil and Environmental Engineer, Oregon No. 13672

CERTIFICATIONS AND TRAINING

- General Post-Earthquake Damage Inspector (GQI), ATC-45, ATC-20-1
- Federal Emergency Management Agency Training - National Incident Management System, Incident Command System Courses, 100, 200, 300, 400, 700, 800

EDUCATION

- BS, Civil Engineering, Oregon State University, Corvallis

PROFESSIONAL AFFILIATIONS

- American Water Works Association, Pacific Northwest Section, 2018–2019 Chair

EXPERIENCE

Relevant Experience -Eugene Water & Electric Board (Chief Engineer, Chief Engineering & Operations Officer, Chief Water Officer)

(Retired, May 2019)

MASTER PLANNING

- Initiated the first comprehensive master planning process for the
- electric utility since 1979.
- Developed several water system master plans.
- Instituted the inclusion of integrated resiliency planning within the
- water master plan, leading the region in resiliency planning and
- implementation efforts.
- Developed EWEB's first Emergency Water Supply Plan.
- Instituted fiber optics master planning for downtown Eugene, in
- collaboration with the downtown development efforts with City of
- Eugene, LCOG and industry partners.

CAPITAL PLANNING & PROJECT IMPLEMENTATION

- Developed and matured EWEB's first ongoing 10-year capital improvement plan for the Water utility.
- Influenced electric capital planning efforts to expand view from a 5-year plan to a 10 year plan.
- Managing multimillion dollar capital improvement plans over decades of service.
- Successfully balanced aging infrastructure needs with financial limitations of the utility.
- Implemented and successfully delivered on multiple capital projects over the last 15 years.
- Includes water, electric, generation and telecom projects.
- Provided leadership in integrating capital improvement needs into EWEB's Long-Term Financial Plan.

FINANCIAL PLANNING AND FISCAL DISCIPLINE

- Utilized Electric and Water Utility Long-Term Financial Planning methods and methodologies.
- Utilized budgeting and reporting systems to identify financial issues proactively.
- Fostered key relationships within EWEB to implement financial and fiscal changes throughout the utility.
- Led efforts to educate and inform staff of financial conditions, bringing fiscal discipline to the forefront of all EWEB projects and initiatives.

DEVELOPMENT AND IMPLEMENTATION OF POLICIES AND PROCEDURES

- Customer policies and procedures, interpreting and explaining to the public, adept to conflict resolution.
- Development of standards, policies and standard operations procedures for utility.

West Yost – Principal Engineer and Project Manager
(December 2019 – present)

2018 AMERICA'S WATER INFRASTRUCTURE ACT

Project Manager: To assist various clients with their all-hazards Americaâ€™s Water Infrastructure Act (AWIA) 2018-compliant Risk and Resilience Assessments (RRAs) and Emergency Response Plans (ERPs). For each project, West Yost completes a thorough gap analysis after reviewing and organizing previously completed RRA- and ERP-related resources. West Yost conducts both RRAs and ERPs according to the American Water Works Association (AWWA) standards, which represent cross-sector best practices. Each RRA considers natural, built, cyber, and personnel assets and any relevant threats and hazards. Risk and resilience management strategies are developed to address the highest risks and reduce vulnerabilities. Next, an ERP is developed. This is built on existing emergency preparedness plans and refined to align with AWIA and state requirements and industry best practices. Finally, we prepare self-certification documentation for submittal to the Environmental Protection Agency.

SEISMIC DESIGN STANDARDS

Pipeline Seismic Design Standards, City of Hillsboro (COH), OR: Project Manager for development of pipeline seismic design standards for pipelines in the 8- to 24-inch size range. Standards will be used for all new and replacement earthquake resistant ductile iron pipelines (ERDIP) and are guidelines for City staff, developer's engineers and consultants working on COH pipeline projects. Developed level of service goals for pipeline response based on American Lifelines Alliance, DOGAMI Mapping, ISO 16134 and input from major pipe manufacturers. Performance standards were developed for pipelines and appurtenances and are being adopted as the standard for 8- to 24-inch pipelines.

WEST YOST
Water. Engineered.

Corie Moolenkamp, PE

Corie is a professional engineering manager who has progressive experience in the management, design and construction management of water storage, water and wastewater pumping and conveyance facilities, as well as water and wastewater treatment. She has been involved in several planning projects including work on wastewater facilities plans, water supply and distribution plans and water rights. She brings a significant amount of local knowledge to the team, as all of her professional work has been municipal in nature and focused in Oregon, primarily in the Portland metropolitan area. In addition to technical work, Corie has successfully managed projects from $5,000 to $15 million in fees. She is well-versed in the financial, organizational, and resource allocation aspects of public works projects.

STAFF TITLE: Engineering Manager I

YEARS OF EXPERIENCE: 23

PROFESSIONAL REGISTRATIONS

- Professional Civil Engineer, Oregon No. 73588

EDUCATION

- BS, Civil Engineering, University of Idaho

PROFESSIONAL AFFILIATIONS

- American Water Works Association
  - Pacific Northwest Section
  - Northwest Oregon Subsection

AWARDS

- Pioneer Award, Pacific Northwest Section, American Water Works Association, May 2007

EXPERIENCE

Grabhorn Reservoir Replacement Owner's Representative and Project Management, Tualatin Valley Water District (TVWD), Beaverton, OR:
Project Manager responsible for providing Owner's Representative and Project Management services to assist TVWD with the Grabhorn Reservoir Replacement Project. Evaluated the potential options of new reservoir size and locations, resulting in replacement of the existing reservoir with a new 5 MG, partially buried, AWWA D-110 concrete tank. Lead an evaluation of project delivery methods including Design Bid Build (DBB); Construction Manager/General Contractor (CM/GC); Lump Sum Design Build (DB); and Progressive Design Build (PDB). Conducted collaborative workshops with TVWD to rank and select the preferred project delivery method – Progressive Design Build. Managed the process to meet Oregon Revised Statue 279C.335 including development of findings and obtaining TVWD Board approval. Prepared the RFP for the selection of the PDB Team, followed by management of the selection process, project management, design review and worked with the PDB contractor on the developing bid packages and a guaranteed maximum price (GMP). The reservoir replacement was completed in 2019.

Ridgewood View Reservoir and Pump Station Improvements, Tualatin Valley Water District (TVWD), Beaverton, OR: Design Manager/Project Manager for the replacement of an existing 5 MG partially buried circular D110 Type tank with a new, 8 MG 5-sided reinforced concrete tank. The reservoir was designed to match the shape of the site in order to maximize the total storage volume. The project also included an 11 mgd pump station on site and many park improvements. Corie managed the land use process and was responsible for obtaining those permits for the project. She finalized design coordination, and performed quality control reviews and coordination checks on the technical specifications and drawings. Corie managed the construction phase support for TVWD with a difficult contractor requiring her to provide technical defense for TVWD through construction claims and change orders.

Kruger Road Reservoir, Tualatin Valley Water District, City of Sherwood, OR: Corie served as Project Engineer during site layout, design and construction management of this 3.0 MG D110 prestressed, partially buried, concrete reservoir. She worked on design documents for tank, piping, and civil elements of the project. During the construction phase,

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Preston Van Meter, PE

Principal Engineer

Preston is a civil engineer with 26 years of experience on a diverse array of projects of all types and sizes. Over his career he has served as a trusted advisor providing services as City Engineer for 11 Oregon communities and he is currently serving as the City Engineer-of-Record for the Cities of Sweet Home and Rainier, Oregon. He has a strong reputation for superior client service and responsiveness that is an asset for on on-call and as-needed contracts.

In addition to leading the design of all types and sizes of municipal projects, Preston has a deep understanding of the diverse array of services required in serving a community as City Engineer on a contract basis, which ranges from providing engineering support for the City's Planning Department on private development applications and submittals, to quickly responding to inquiries from Public Works field staff related to utility operations and maintenance.

Preston is a recognized wastewater treatment expert who has delivered major WWTP upgrades and expansion projects throughout the Western United States with services including initial planning and conceptual design, permitting, final design, bidding and construction administration. He has also participated in and led value engineering studies for several wastewater treatment and infrastructure projects.

STAFF TITLE: Principal Engineer II

YEARS OF EXPERIENCE: 26

PROFESSIONAL REGISTRATIONS

- Professional Civil Engineer, Oregon No. 51615
- Professional Engineer, Washington No. 43828

EDUCATION

- MS, Civil Engineering, University of Michigan
- BS, Civil Engineering, Oregon State University
- BS, Business Administration, Oregon State University

PROFESSIONAL AFFILIATIONS

- Oregon Association of Clean Water Agencies Pacific Northwest Clean Water Association
- Water Environment Federation

EXPERIENCE

City Engineer-of-Record, City of Sweet Home, OR: Project Manager serving as contract City Engineer providing a broad range of services. In addition to leading the City's $28M WWTP expansion Project, Preston led the developing of System Development Charges (SDCs) for five City utilities, development of a water system model, development of utility base maps in GIS, support of development reviews and consultations, attendance at City Council meetings and other miscellaneous projects and duties.

City Engineer-of-Record, City of Rainier, OR: Project Manager serving as contract City Engineer providing a broad range of services including construction support for the A Street Improvements Project through downtown, WTP evaluation and condition assessment, NPDES Permitting support, WWTP filter evaluation and upgrades, development of a wastewater collection system rehabilitation program to reduce inflow and infiltration (I/I), evaluation of the 84" Fox Creek culvert for meeting fish passage requirements for endangered salmonid species, attendance at City Council meetings and other miscellaneous projects and duties.

Wastewater Engineer-of-Record, City of Madras, OR: Project Manager serving as the Engineer-of-Record on larger water and wastewater projects in the City of Madras. These included the $10M J-Street Bridge Replacement Project to address a floodplain encroachment issue as well as a series of projects at the City's two wastewater treatment plants and wastewater pump stations. Other services included permitting support with Oregon DEQ, evaluation of a potential wastewater infiltration basin for effluent discharge and review of development projects related to expansion of City utilities.

Pendleton WWTP Liquids Stream, Solids Stream and Outfall Upgrades Project; City of Pendleton, OR: Project Manager for a $20 Million expansion of the Pendleton Wastewater Treatment Plant. The project included; new 12 MGD headworks; primary clarifier rehabilitation; new in-plant pump station; new aeration basin designed for Ammonia removal and conversion to a membrane bioreactor in a future phase; chlorine contact chamber expansion; new dechlorination facility; primary digester rehabilitation and pump mixing system; FOG and food waste receiving station; new solids dewatering facility; and new Umatilla River outfall. The project included significant funding and environmental permitting support.

Dundee WWTP Expansion; City of Dundee, OR:
Project Manager and Design Lead for the design and construction of a new membrane bioreactor (MBR) facility including: new WWTP headworks; new 8 MGD influent pump station with dual force mains; MBR facility with MLE treatment process; new closed-vessel UV disinfection system; new utility water pump station; new 2 cell facultative sludge storage basin; and associated civil and site improvements. The project was designed for costeffective expansion from 1 MGD to 2 MGD based on the membrane basin design. The project included extensive environmental permitting and re-negotiation of the City's NPDES Permit.

WWTP Improvements Project; City of Hubbard, OR:
Project Manager leading WWTP improvements including: new headworks; new aeration blower complex; conversion of an existing Schreiber Counter-Current Aeration Basin to a conventional activated sludge treatment process with anoxic selector; and new centrifuge dewatering facility and covered cake storage and loadout area.

Property Floodplain Certification Program; City of Keizer, OR: Project Manager leading an evaluation of finished floor elevations for homes along the Willamette River in support of an update the FEMA Flood Insurance Study (FIS) and updates to the 100 year floodplain maps for the City following the 1996 Willamette River Flood that exceeded a 100-year event in the Salem/Keizer Area. As part of the project, home inspections were conducted and finished floor elevations were surveyed, involving significant coordination with the City and the local homeowners association.

Lockhaven Drive Improvements Project; City of Keizer, OR: Project Engineer for a 2-phase project to widen and upgrade approximately 2-miles of Lockhaven Driver connecting the City's main arterial street, North River
Road, with the City's primary interchange with Interstate 5. Utility upgrades included replacement and upsizing of the existing water and sewer mains along construction of a new storm drain and storm water quality facilities. Street improvements included site distance improvements, driveway closure/relocation, storm drainage, curbs, sidewalks, lighted signage, handicap ramps meeting current ADA requirements, and landscape improvements. Right-of-way and easements were negotiated with over 30 property owners prior to the completion of the improvements.

Storm Water Master Plan; City of Sheridan, OR:
Project Engineer leading the hydraulic modeling and preparation of a phased Storm Drain Master Plan for the City based on ongoing development projects. The plan included recommended CIP projects were funding using a combination of SDCs and cost-share agreements with local developers.

Wastewater Treatment Plant Improvements Project, Influent Pump Station Upgrades, City of Sweet Home, OR: Project Manager leading the 20% Schematic Design and Final Design of the Sweet Home Wastewater Treatment Plant (WWTP) expansion project, which focused on rehabilitation, reuse, and re-purposing of existing WWTP unit processes and upgrades to increase capacity from 7 MGD to 12 MGD. The project includes rehabilitation and capacity expansion of the existing WWTP influent pump station (IPS) to provide pumping capacity ranging from low flows less than 0.50 MGD to winter peak flows of nearly 13 MGD. IPS Upgrades included reusing and rehabilitating the existing 18' diameter wet well and installing new submersible pumps: one Hidrostal pump in the pre-rotation basin for low flows and cleaning operations and four Flygt submersible pumps. This approach saved the City approximately $2.5 million compared to construction of a new influent pump station. The project is currently in final design.

Wastewater Reclamation Plant Influent Pump Station Evaluation Project and Implementation, City of Corvallis, OR: Project Manager for development and testing of a physical model of the existing Corvallis WWRP Influent Pump Station (IPS) wet well. Implementing IPS recommendations to severe air-entraining vortices will save the City approximately $2 million in planned upgrades and allow a larger $10 million wet well expansion to be delayed for several years. IPS upgrades recommended in the physical model study were designed and constructed the following year. The project was completed on time and budget and has performed as predicted in the model study. The project was completed in 2010.

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Water. Engineered.

Walt Meyer, PE

Contract Manager

Walt Meyer is an engineer with experience in water and wastewater planning, design, and construction. He has managed multi-disciplined project teams for various water, wastewater, storm water, and environmental services projects. Walt has directed facilities planning for wastewater programs for many communities and has extensive design experience including wastewater treatment plants, pumping stations, large diameter pipelines, and water facilities. He has managed infiltration/ inflow assessments, sludge management evaluations, financial plans, environmental assessments, and rate studies for many communities. Walt is very familiar with Oregon's water quality standards and has a history of successful negotiation with regulatory agencies on behalf of clients.

EXPERIENCE

Water System Planning, Design and Construction, City of Creswell, OR: Principal, directed the water system planning, design and construction for Creswell's water system, includingdesign of a 1 mgd water treatment plant, distribution system model and master plan, and new water wells.

Water System Master Plan, Eugene Water and Electric Board (EWEB), Eugene,OR: Managed the preparation of EWEB's 2015 Water System Master Plan, which addresses resiliency and optimization of the water distribution system for cost effective operation. The plan included an assessment of existing demands and projects demands until buildout of the urban growth boundary. The plan also addresses specific projects to optimize operation and improve redundancy and resiliency and includes a 20-year capital improvements plan to implement the projects. Background information on the existing system, water demand, regulatory compliance and planning criteria are addressed. An evaluation of alternatives to enhance service both in the Base Level and the Upper Levels is presented and the recommended improvements and Capital Improvement Plan are included.

Water System Master Plan, City of Milwaukie, OR: Project Manager for the development of the City's 2011 Water System Master Plan, which included the City's supply wells, treatment system, pump stations and water distribution system. The project included development and calibration of a hydraulic model to evaluate improvements required to meet both existing and future water demand and fire flow requirements within the City's system. A capital improvement plan was developed to guide system improvements for full buildout of the City and future areas for expansion. Also prepared a rate study for the system based on the capital improvements identified in the master plan. The final recommendation included rate increases to allow the City to reach a sustainable level of pipeline replacements using pay-as-you-go financing.

STAFF TITLE: Engineering Manager II

YEARS OF EXPERIENCE: 52

PROFESSIONAL REGISTRATIONS

- Professional Civil Engineer, California No. 22399 Oregon No. 10945

EDUCATION

- BS, Civil Engineering, Oregon State University

PROFESSIONAL AFFILIATIONS

- Oregon Association of Clean Water Agencies
- Pacific Northwest Clean Water Association
- Water Environment Federation

AWARDS

- Pacific Northwest Clean Water Association – 2009 President's Award
- 2012 ACWA Outstanding Member Agency Award for Advancing Water Quality Trading

Vine Street Water Treatment Plant, City of Albany, OR: Assisted the City in the evaluation of long-term disinfection rule compliance at the Vine Street plant. The City was required to obtain an additional one log of disinfection credit and a plan was developed to obtain this credit through additional monitoring and reporting. Project manager for expansion from 10 mgd to 18 mgd which included chemical system improvements, installation of a high-rate flocculation and sedimentation tank, four new filters, and general system wide improvements. Currently assisting the City in the design of a new backwash pump.

Taylor Water Treatment Plant and Rock Creek Water Treatment Plant, City of Corvallis, OR: Designed modificationsto the raw water piping including a new chemical mixing system. Originally operators had difficulty balancing chemicals to the sedimentation system and the improvements resolved this issue. Also provided design services for upgrading the filters by replacing the launders, media, filter underdrains, surface washing and backwash pumps. Also designed improvements to the solids handling including a new holding tank with high pressure cleaning capability.

Water System Improvements, Heceta Water District, Florence, OR: Directed the design of the water system improvements including a one million gpd water treatment plant to filter the District's raw water supply. Work included preparation of a water distribution system master plan, preparation of system development charges and new rates, and detailed design of a new water intake, remodeling of theraw water pump station, a new water transmission main, thetreatment plant, and finished water storage and pumping.

Water Treatment Plant, City of Albany, OR: As Project Manager, designed the expansion of the water treatmentplant design to 20 mgd capacity.

Water Treatment Plant, City of Grants Pass, OR: Managed several plant improvement projects including the chlorinationretrofit pre-design and new system telemetry installation. Also provided new speed control for the system backwash. Designed filter improvements including new surface wash system, controls and backwash improvements. Completed anassessment of solids handling improvements and prepared contract documents for cleaning of the solids storage lagoon.

Water Master Plan, City of Oregon City, OR: Managed the update of the Oregon City Water Master Plan including updating of water demand projections, review of service criteria, development of a hydraulic model, and preparationof the capital improvement plan.

Water Supply, Treatment, and Distribution System FacilitiesPlan, City of Albany, OR: Directed a comprehensive water system master plan that evaluated alternative water supplies, treatment requirements, and distribution systemimprovements. Developed the water distribution system master plan and updated the plan when the City extendedservice to the West Albany region.

Water Distribution System Facility Plan, City of Corvallis,OR: Project Manager, prepared a computer model of the City's water distribution system and updated the system master plan for extending service throughout the urban growth boundary.

Rock Creek Influent Pump Station, Clean Water Services ofWashington County, OR: As Project Manager, upgraded thepump station from 45 to 100 mgd capacity.

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Daphne Marcyan, PE

Project Engineer

Daphne is project manager and water system design engineer who focuses on analyzing hydraulic systems for efficient and complete water pump station and system designs. Her broad background also includes strategic land use permitting land development, road design, grading of challenging sites, water and sewer line design, and implementation of innovative storm water management techniques such as Low Impact Development Approaches (LIDA) to detention and water quality facility design. Her experience has her ready to efficiently tackle projects and deliver successful solutions for a variety of clients.

EXPERIENCE

Ridgecrest Pump Station, City of Corvallis, OR: Project Engineer who led all phases of design and coordinated with subconsultants for an efficient plan set for the new Ridgecrest Pump Station. The pump station was needed to provide domestic water service and a constant flow of 1,500 gpm for fire in this closed system for the Ridgecrest housing development and future development in the area. West Yost converted the City's hydraulic model from H2OMap to InfoWater and modeled the domestic and fire demands to develop system head curves for the current and future development. A surge analysis was performed by West Yost staff to check for potential issues and to protect the City's pumps and water system in the event of a power outage. The pump station is currently under construction.

Riverfront Interceptor Wet Weather Lift Station and Forcemain, City of Albany, OR: Daphne led the lift station design for the Riverfront Sewer Interceptor Lift Station and Force Main Project. The Project includes design of a new 12,500 gpm lift station and 1 1/3 miles of 30-inch force main. The Project will provide the City with the necessary peak flow capacity during high-flow conditions and will be integrated into the City's wastewater utility to eliminate sewage overflows into the Willamette River.

Pump Station 15 Replacement, Sunrise Water Authority, Happy Valley, OR: Assistant Project Manager. Assisted with the management of a project to replace Pump Station 15. Designed on a fast-track schedule, this project included obtaining land use approvals, completing the pump station design, and advertising for construction in less than six months. The expedited schedule was required so the station could to be constructed before the peak summer demands to supply drinking water to a new residential community.

Pipeline Seismic Design Standards, City of Hillsboro (COH), OR: Technical lead for development of pipeline seismic design standards for pipelines in the 8- to 24-inch size range. Standards will be used for all new and replacement earthquake resistant ductile iron pipelines (ERDIP) and are guidelines for City staff, developer's engineers and consultants working on COH pipeline projects. Developed level of service goals for pipeline response based on American Lifelines Alliance, DOGAMI Mapping, ISO 16134 and input from major pipe manufacturers. Performance standards were developed for

STAFF TITLE: Principal Engineer I

YEARS OF EXPERIENCE: 20

PROFESSIONAL REGISTRATIONS

- Professional Civil Engineer, Oregon No. 79697, Washington No. 44980

EDUCATION

- BS, Civil Engineering, Purdue University

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- American Water Works Association

RECOGNITION

- 2017 President of ASCE Environmental and Water Resources Group
- AWWA Involvement and Presenter at 2017 PNWS Conference in Kennewick, WA

pipelines and appurtenances and are being adopted as the standard for 8- to 24-inch pipelines.

Fulton Pump Station Replacement, City of Portland Water Bureau (PWB), OR: Design Engineer. This project involves the replacement of the existing 12 mgd Fulton Pump Station with a new 18-mgd station to meet projected 2025 water demands for the Burlingame Service Area (BSA) system. The new pump station is sited within the City's Willamette Park and included the latest in Green Building Policy and eco-roof design to effectively integrate the new station into the existing park surroundings. Project challenges included design for new large-diameter piping and alignments in an extremely crowded NW Nevada Street corridor, and corrosion concerns related to future potential Portland Streetcar extensions. Daphne was responsible for leading the design of the site improvements to comply with the City of Portland's Stormwater Management Manual. The site features include water quality facilities including stormwater planters, vegetated basins, an eco-roof, and permeable pavers.

Valley View Pump Station Rehabilitation, Oak Lodge Water District (OLWD), Oak Grove, OR: Project Engineer for the design of upgrades to OLWD's Valley View Pump Station. The project included the replacement of three vertical turbine water pumps, all valves and electrical equipment, and the installation of a 150 kW emergency power generator system. The project also entailed a new gabled roof system, HVAC improvements and the replacement of two existing flow meters.

Cleveland Reservoir Seismic Improvements & Pump Station Replacement, Rockwood Water People's Utility District (PUD), Portland, OR: Project Manager for design and construction phase services for reservoir seismic improvements and a pump station replacement for Rockwood Water PUD's Cleveland facilities. Completed design for a replacement 1,400 gpm booster pump station with unique new facilities designed with a complex valve assembly that allows the station to operate in multiple modes of operation. The station can supply water to two pressure zones and the Cleveland reservoir can accept and store water from two pressure zones. The project also included reservoir seismic improvements, pressure and gravity piping improvements, exterior coating, and new interior coating repairs for the existing 3.0 MG welded steel reservoir.

10 MG Reservoir Improvements and Transfer Pump Station, City of Tigard, OR: Design Lead. Daphne led the engineering design work for the City of Tigard's 10 MG Reservoir and Pump Station Upgrades project involving the replacement of an existing pump station with a new 7,200 gpm pump station that consists of six vertical turbine pumps delivering water to two separate pressure zones. The new pump station was designed and constructed with a 22-foot by 50-foot footprint and a basement approximately 40 feet deep. The design allows the full 10 MG of the supply reservoir to be used while providing full access for the equipment operators without the risk of entering a confined space. The project also involved the design and construction of a new 40-foot deep control vault next to the pump station to allow the City to more effectively control the water coming into the reservoir from the City of Portland, the aquifer storage and recovery well house on site, and the City of Tigard's 550-foot service zone reservoir.

Portland Water Bureau Intertie Project, City of Sandy, OR: Design Engineer. This complex interagency project allows the City of Sandy to meet demands at least 50 years into the future. The project includes the design and construction management of an intertie with Portland Water Bureau's 66-inch diameter conduit, five miles of 24-inch diameter transmission main, a 1 mg reservoir, a new 4 mgd booster pump station, and a new transfer pump station at the reservoir site. Daphne led the design of the new transfer pump station and was team engineer for the design of the 4 mgd booster pump station.

1.3 MG Forest Park Low Tank Reservoir Improvements, City of Portland Water Bureau (PWB), OR: Design Engineer and Construction Phase Services. The project included design and construction of a 1.3 MG buried water reservoir in a residential neighborhood in Forest Park. The topography of the site consists of a steep terrain with an approximate 20 percent slope. Daphne designed the site plan and access road profile on the steep, confined site to accommodate the water tank and proposed building. The project also includes the design of a 25-foot by 64-foot building to house four vertical turbine pumps with a capacity of approximately 3,500 gpm, electrical equipment, and mechanical piping. Daphne also designed the architectural and ventilation plans for the building, and prepared the stormwater management plan conforming to the City of Portland's Stormwater Management Manual. Daphne also led all permitting activities including the completion of the City's Type II and Type III land use reviews.

Dayton Avenue Wastewater Lift Station Replacement, City of Newberg, OR: Team Engineer. The lift station is located along NE Dayton Avenue, near Chehalem Creek. The site has a number of challenging features such as a narrow and steep access driveway, wetland impacts, impacts to the Dayton Avenue embankment slope, and stormwater impacts due to wetland and City of Newberg water quality requirements. Provided technical advice to the team on how to construct the station replacement within the limited site area. The final site design included six retaining walls, a water quality pond, and stormwater improvements designed to meet City of Newberg and USACE requirements for wetland impacts near Chehalem Creek.

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Brooke Barry, PE

Project Engineer

Brooke specializes in the design and construction of water transmission, distribution, and sewer pipelines and has additional experience in pump station design. She has designed water transmission pipelines up to 66 inches in diameter and sewer force mains up to 30 inches in diameter. She has designed a total of approximately 65,000 feet of small-diameter pipelines for water and recycled water distribution and sewer transmission. She has designed three pump stations with 75-horsepower pumps. She has experience in preliminary and final design and construction and project management. She assisted with a routing analysis to select the final 33-mile route for a 30- to 66-inch welded steel pipe water transmission main, including working with geotechnical engineers to analyze over 40 trenchless crossings. Brooke is proficient with AutoCAD, Civil 3D, and ArcGIS.

EXPERIENCE

Design and Expansion of the Recycled Water System, City of Cottage Grove, OR: As Project Engineer, Brooke was responsible for modeling water balances to determine required storage facility volume to reduce effluent discharge, analyzing potential sites to irrigate using recycled water, designing two pump stations and over a mile of AWWA C900 distribution piping. She coordinated with a cross connection specialist to verify the irrigations systems complied with State regulations.

Riverfront Interceptor Wet Weather Lift Station and Force Main, City of Albany, OR: Brooke served as Project Engineer for the design of approximately 7,000 linear feet of 30-inch nominal diameter force main. The force main was designed as partially restrained AWWA C900 PVC pipe but provided the contractor the option to bid HDPE. The design included cased pipeline sections under a railroad and single body sewage combination air valve assemblies. Brooke completed pipeline calculations per AWWA M55 and AWWA M23 to check internal and external pressure and coordinated with the surge analysis team to verify placement, size, and type of valve to mitigate for surge and vacuum pressures.

Avenues 1-3 Sewer and Water Main Replacement, City of San Bruno, CA: Project Manager and Project Engineer for the replacement design of approximately 7,000 feet of new 8- and 10-inch sewer pipeline and 6,500 feet of 8-and 12-inch water pipeline. The waterline component replaced existing 2- and 4-inch asbestos cement pipes with new ductile iron pipes. Design considerations included the location of existing utilities, and West Yost evaluated the feasibility of rehabilitating a sewer main in a congested backyard area near Mastick Avenue. Construction in congested residential areas required careful utility coordination, extensive potholing, and extensive street and sidewalk restoration. The project includes the replacement of all fire hydrants and all water services. Construction methods include open-cut, bore and jack, and pipe bursting.

STAFF TITLE: Senior Engineer I

YEARS OF EXPERIENCE: 8

PROFESSIONAL REGISTRATIONS

- Professional Engineer, Oregon No. 85993

EDUCATION

- BS, Civil Engineering, Oregon Institute of Technology, Klamath Falls

PROFESSIONAL AFFILIATIONS

- American Water Works Association, Northwest Oregon Subsection
  - Young Professionals, Chair
  - Young Professionals, Secretary

Washington Park Reservoir Improvements Project, City of Portland, OR: Project Engineer performing services during construction for the rebuilding of the existing reservoirs into a new 12.5-million-gallon, seismically reinforced below ground reservoir. Brooke's responsibilities include coordinating with Portland Water Bureau, Engineers of Record, contractor and subcontractors to resolve questions and issues, interacting with multidisciplinary teams (electrical, geotechnical, structural) to review submittals, answer RFIs, and develop redesigns during construction. Brooke assisted with redesigning the future reservoir outlet and overflow piping and stormwater conveyance system. She performed design calculations including thrust restraint per AWWA M41 and HDPE ring deflection per AWWA M55. She served as submittal review lead (reviewing, managing, corresponding with PWB and subconsultants) for approximately one year.

Downtown Marketplace Plan Check, Western Municipal Water District, Riverside, CA: Project Engineer for the review of the design of the water distribution, sewer, and recycled water irrigation improvement plans, compliance with WMWD standards, and proposed easement for water connection backflow preventer.

Montebello Hills Recycled Water Pump Station, Pipeline, and PRV Design, Toll Brothers and Central Basin Municipal Water District, Montebello, CA: Project Engineer for the design of a recycled water pump station and distribution system designed to serve the landscape irrigation demands of the Montebello Hills residential development. The project included the design of a 1,800 gpm vertical multistage pump station. The pump station will pump recycled water from the CBMWD system into a dedicated recycled water distribution system located throughout the project development. The dedicated distribution system design included a hydraulic analysis to determine distribution system sizing and surge effects, the design of several sets of recycled water piping and PRV plans to extend the distribution system by project phases to proposed landscape connection points throughout the development. The project required extensive coordination with the landscape designer, developer, development engineers, several subconsultants, CBMWD, City of Montebello, and Division of Drinking Water.

Montebello Hills Domestic Water Backbone and In-tract Pipeline Design, Toll Brothers and San Gabriel Valley Water Company, Montebello, CA: Project Engineer. West Yost is currently designing a domestic water distribution system to serve the residential demands of the Montebello Hills residential development. The project includes the design of approximately 27,000 lf of CML&C welded steel water distribution pipe, hydrants, and appurtenances located throughout the Montebello Hills project development in the City of Montebello. The backbone and In-tract pipeline distribution system design was broken into five plan sets by project phase and included residential and fire service connections for proposed residential housing throughout the development. The project required extensive coordination with the developer, development engineers, several subconsultants, SGVWC, City of Montebello, and Division of Drinking Water.

Eagle Business Park Plan Check, Western Municipal Water District, Riverside, CA: Project Engineer for the review of the design of the water distribution, sewer, and irrigation improvement plans, compliance with WMWD standards, and proposed easement for water connection backflow preventer.

SW 124th Avenue Pipeline, Tualatin Valley Water District/ City of Hillsboro, OR: Brooke served as Pipeline Engineer to complete final design plans for a 66-inch diameter welded steel pipe water transmission line and 12-inch, restrained joint, ductile iron water fill line. The design included design calculations per AWWA (steel cylinder thickness, buoyancy, thrust block/coupling restraint, outlet, collar plate, fittings), alignment, profile, appurtenances, one trenchless railroad crossing, and drafting. Brooke provided services during construction including submittal review.

Willamette Water Supply Preliminary Design, Tualatin Valley Water District/City of Hillsboro, OR: As Pipeline Engineer, Brooke performed the steady-state hydraulic analysis to confirm pipeline sizing, design pressures, steel cylinder thickness, minimum and maximum hydraulic grade lines, and reservoir elevations. She developed preliminary design documents for 33 miles of welded steel pipe water transmission line including route evaluation and documentation, preliminary plans (alignment/profile/ hydraulic profile/ details). She prepared trenchless crossing designs to meet railroad & Bonneville Power Administration requirements and adhere to limitations for tunneling techniques and geotechnical design criteria.

Cedar & Golden BCIP Project, City of Hillsboro, OR: As Pipeline Engineer, Brooke completed PS&E for 3,400 linear feet of replacement ductile iron water distribution line, including hydrant relocations, abandonment of existing line, connection details, and service line replacements.

Water Improvements on NE 99th/SR-503, City of Vancouver, OR: As Pipeline Engineer, Brooke completed PS&E for 1,500 linear feet of new 20-inch ductile iron water transmission line, including 120 linear feet of trenchless crossing of SR-503 using bore and jack.

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Stan VandeBergh, PE

Project Engineer

Stan VandeBergh is a professional civil engineer who provides project and program management for planning, design, and engineering services during construction and construction management of municipal water treatment and infrastructure projects. Stan was Chief Engineer and Program Manager for the City of Portland Water Bureau where he led development of administrative policy, planning, design, construction, capital program planning, and project implementation.

EXPERIENCE

Miguelito Reservoir Replacement, San Jose Water Company, CA: Technical Advisor for the design two 0.8 MG prestressed concrete tanks to replace two earthen embankment reservoirs constructed in 1927 and 1962. The Miguelito Stati on is an inter-zone treated water storage and pumping facility located along the City of San Jose's eastern foothills. Design includes chemical feed and mixing system, flexible connecti ons, on-site storm water treatment, coordinate adjacent pump stati on which is currently under construction. Also required addressing the challenging site constraints which include: continuous operation of one reservoir during construction, limited access for equipment needed to demolish and remove existing facilities, and limited usable space to construct new facilities. Design scope included developing a grading plan, site and piping layout, mechanical design for tank and associated pipes and valves.

Graham Hill Water Treatment Plant Concrete Tank Replacement Project, City of Santa Cruz, CA: Technical Advisor for the design of three prestressed tanks (1 MG, 0.7 MG, and 0.7 MG) to replace three existing post-tension concrete tanks that are past their expected service life. The treatment plant is located in the Santa Cruz hills and includes a challenging project site with limited space for construction. Design also included 30-ft retaining walls for a new pad one of the new tanks, three pump stations, replacement of large-diameter pipelines, and a new electrical building. Due to the high seismicity of the site soil mitigation measures will be necessary. Construction sequencing is a critical component of the construction to allow the water treatment plant to stay in operation during construction.

Washington Park Reservoir Replacement Project, Portland Water Bureau, OR: Stan is the West Yost program manager for the $190 million concrete reinforced reservoir project to improve the City's historic water system.

STAFF TITLE: Principal Engineer II

YEARS OF EXPERIENCE: 45

PROFESSIONAL REGISTRATIONS

- Professional Civil Engineer, Oregon No. 11763, Washington No. 21318

EDUCATION

- BT, Civil Engineering, Oregon Institute of Technology, Klamath Falls, OR
- AE, Structural Engineering, Oregon Institute of Technology, Klamath Falls, OR

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- American Water Works Association
- American Concrete Institute
- American Public Works Association
- Member of National AWWA

Previous Experience

Powell Butte 2 Reservoir, Portland Water Bureau, Portland, OR: Project Design/Construction Manager (Phase 1)/Construction Technical Advisor, and QA/QC (Phase 2). This project consisted of the design and construction of a 50-million-gallon, buried concrete storage reservoir and supporting infrastructure located in a 600-acre nature park. The supporting infrastructure consisted of maintenance/storage facilities, the caretaker's residence, an interpretive center and restrooms, stormwater improvements, and park trail upgrades. Phase 1 of the project consisted of site preparation of the work area, access roads and laydown area, stormwater handling facilities, and excavation of 330,000 cubic yards of material hauled off site. Phase 2 of the project consisted of the completion of the excavation and stockpiling of the materials on site, construction of an approximately 800-foot by 400-foot by 25-foot to 35-foot-deep, twin-celled, hopper-bottomed, buried reinforced concrete reservoir. The work included the installation of more than 1,800-feet of 90-inch-diameter cement mortar lined and coated steel pipe.

Kelly Butte Reservoir, Portland Water Bureau, Portland, OR: Manager of Construction Management Group, Technical Advisor and QA/QC. This project consisted of design and construction of a 25-million-gallon, buried concrete storage reservoir replacing an above grade, 10-million-gallon steel tank. The project was located in a 23-acre nature park. The reservoir of an approximately 400-foot by 250-foot by 25-foot to 35-foot deep twin celled hopper bottomed buried reinforced concrete reservoir. The reservoir dual inlet/outlet source pipelines and valve control structures. The project consisted of removal of the 10-million-gallon steel tank and construction of the reservoir, dual 48-inch diameter inlet/outlet pipelines, dual valve control structures, overflow and stormwater management facilities, and access road.

Forest Park Low Reservoir, Portland Water Bureau, Portland, OR: Manager of construction management group, Technical Advisor, and QA/QC. This project consisted of design and construction of a 1.3-million-gallon fully-buried prestressed concrete storage reservoir and adjoining 3,300 gpm pump station. The tank is 76 feet in diameter and 41 feet tall and required 30,000 cubic yards of excavation to depths of 50 feet on a steep slope to construct.

Forest Park High Reservoir, Portland Water Bureau, Portland, OR: Manager of Design/Construction Management Group, Technical Advisor, and QA/QC. This project consisted of the design and construction of a 0.5-million-gallon, elevated steel Hydropillar tank.

Whitwood Reservoir, Portland Water Bureau, Portland, OR: Manager of Design/Construction Management Group, Technical Advisor, and QA/QC. This project consisted of the design and construction of a 0.1-million-gallon concrete tank in a remote area of the City of Portland's 5,200-acre Forest Park Urban Forest. In addition to providing service to residents, the tank provides water for fire protection in this remote area of the park.

Columbia South Shore Groundwater Pump Station, Portland Water Bureau, Portland, OR: Final construction inspection and QA/QC, startup and commissioning of the facility including training of operational staff. The project consisted of the first phase development of an alternative supply for the City of Portland Water Bureau. The groundwater pump station is a 100-million-gallon pumping facility that has capabilities to reverse flows and generate up to 4.5 megawatt of power. This facility includes a 2-million-gallon, steel regulating tank utilized for both pumping and generation modes of operation. During operation, the tank turns over its storage volume every 30 minutes. The tank is founded on a concrete ring wall supported by micropiles in soft soils along the Columbia River. The pump station consists of 6-2,350 horsepower motor-generator pumping units capable of pumping 18-million-gallons each and 2-500 horsepower jockey pumps capable of 5-million-gallons each.

2013 Inventory and Condition Report, City of Portland, OR: Manager of Planning/Asset Management group, Technical Adviser, QA/QC of Final Report. This report was the first inventory and condition assessment report completed by the Portland Water Bureau's asset management group. In this report, over $456 million of terminal storage consisting of nine concrete and one steel reservoirs were evaluated, as well as more than $266 million of distribution storage consisting of 32 concrete and 26 steel reservoirs was inspected, assessed/condition rated, and valued for use in asset management planning.

Chief Engineer, Portland Water Bureau, Portland, OR: As Chief Engineer, Stan managed and supervised a group of 85 professional and non-professional technical staff.He was responsible for planning and engineering for the largest water system in Oregon, which served over 850,000 people, and managing an annual CIP budget that ranged from $35 million to $45 million. He provided leadership in development of administrative policy, planning, design, construction, and capital program planning and implementation

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Anthony Tartaglione, PE, BCEE

Project Engineer

Anthony is a civil and chemical engineer that provides and develops comprehensive planning documents for municipal wastewater treatment plants and construction documents, including plans and specifications for the designed expansion, rehabilitation and repair, upgrades, and improvements of water resource recovery facilities. Anthony provides process mechanical calculations, energy and mass balances calculations, unit process system analysis and selections, specification development, CAD design drawing development, code interpretation, multidiscipline coordination, meetings with client stakeholders, water quality and NFPA code compliance, coordination with venders, contractors, and subconsultants, and engineering services during construction, including review of submittals, shop drawings, and responses to RFIs from contractors. He has a commitment to excellence and enthusiasm to create opportunities from challenges including resource recovery and recognition of "wastewater" as "resource-water." Anthony is a contributing author to Water Environmental Federation publications, including 1) *Design of Water Resource Recovery Facilities. Manual of Practice No. 8, 6th Ed., Water Environmental Federation Publication, 2017;* 2) *Energy in Water Resource Recovery Facilities, Manual of Practice No. 32, 2nd Ed., Water Environmental Federation Publication, 2021, and* 3) *Wastewater Treatment Fundamentals III, 1st Ed., Water Environmental Federation Publication, 2022.*

EXPERIENCE

Clean Water Services, The Forest Grove Solids Treatment Alternatives Project, FGWWTF; Washington County, OR: Project Manager. Managed a Black & Veatch team performing the review and evaluation of solids treatment technologies including pyrolysis, gasification, oxidation, hydrothermal processing, heat drying and composting to be selected for preliminary design development that accounts for future growth, diversifies treatment and disposal, reduces potential impact on future regulations including PFAS, and affords the District an opportunity to free up treatment capacity at Rock Creek WWTF (Rock Creek) and the existing return sludge (RS) pipelines between Rock Creek and Hillsboro WWTF and Forest WWTF for increased pumping reuse water capacity to reduce the effluent discharge temperature load to the receiving waters.

City of Portland Bureau of Environmental Services, Tyron Creek WWTP Upgrades Project; Lake Oswego, OR: Design Manager. The major elements of the Project included a Headworks Facility, Dry Weather Primary Clarifiers, and odor control systems. The Project also included modifications to the existing Primary Clarifiers 1 through 3 for wet weather operation, modifications to existing on-site pump stations, and plant electrical improvements. The new Headworks Facility included four (4) multi-rake 6 mm screens with sluice conveyance and washer/compactors, two (2) multi-tray vortex type HeadCell units, grit pumping with recessed impeller centrifugal type pumps, and two (2) vortex (cyclone) type classifiers.

FIRM: West Yost

OFFICE: Lake Oswego

STAFF TITLE: Principal Engineer

YEARS OF EXPERIENCE: 24

PROFESSIONAL REGISTRATIONS

- Professional Civil Engineer, California No. 82471 Expiration September 30, 2022 Oregon No. 92042, Florida No. 80044, Idaho No. 19466, Maryland No. 47044, North Dakota No. 9409, New York No. 095366, Texas No. 138930
- Professional Chemical Engineer, California No. 6119 Expiration September 30, 2021 Oregon No. 92042, Idaho No. 19466
- Board Certified Environmental Engineer, American Academy of Environmental Engineers, Expiration December 31, 2021

CERTIFICATIONS

- Wastewater System Operator
- Treatment IV Restricted Wastewater Operator
- Department of Energy Qualified Pumping Systems Specialist

EDUCATION

- MSc, Chemical Engineering, Colorado State University
- BSc, Environment Engineering, Rensselaer Polytechnic Institute

PROFESSIONAL AFFILIATIONS

- Water Environment Federation Pacific Northwest Clean Water Association
- American Academy of Environmental Engineers & Scientists

Miami-Dade Water and Sewer Department, Wastewater Treatment Master Pump Station 2 Upgrades; Miami, FL: Design Manager and Lead Process Mechanical Engineer. Planning, predesign and final design phases of the 60 million gallon per day (mgd) pump station. This project included process modification of the ventilation, odor control, and effluent flow meter systems. The odor control system included 3-stage wet chemical scrubber followed by carbon adsorption for H2S and suffer reducing compounds treatment with a capacity of 16,000 standard cubic feet per minute. Managed the development, engineering and construction of a bypass system and sequencing plan that allowed the pump station to remain active during construction.

North Hudson Sewerage Authority, CSO Screening Facilities / Pump Stations; Hoboken, NJ: Design Manager and Lead Process Mechanical. Engineer for the design of combined sewer overflow (CSO) solids/floatables screening facilities and Pump Stations throughout the Authority's service territory Anthony maintained full responsibility for work planning, oversight and management of staff engineers.

Cape Coral Southwest, Water Reclamation Facility Headworks Screen Replacement Project; Cape Coral, FL: Project Engineer. Design/CM-at-Risk headworks screen replacement. The existing screens were 6-millimeter (6 mm) rake screens and were experiencing problems treating peak flows. More importantly, screenings were passing through the screens and impacting the downstream processes (mixers in the anaerobic and anoxic basins, fine bubble diffusers in the aeration basins and vacuum suction piping in the secondary clarifiers. In addition, the City documented some overflows during lower than peak flow conditions. Based on the results of the evaluation performed, it was determined that 6 mm step screens were the best option for the City. Other than operating costs, step screens required no structural improvements and could fit in the existing channels. More importantly, the step screens meet the City's goals of improving screening removal efficiencies and hydraulic capabilities. The FDEP permits and supporting documentation were prepared, and once the permit was approved two new step screens were procured and installed.

North Hudson Sewerage Authority, Adams Street Wastewater Treatment Primary Clarifiers Upgrades Project; Hoboken, NJ: Design Manager and Lead Process Mechanical Engineer. The project involved the planning, predesign and final design phases of the upgrades to the rectangular primary clarifiers at Adams Street WWTP. This work involved structural rehabilitation of the rectangular clarifiers, replacement of the clarify mechanisms and associated electrical, instrumentation and controls upgrades.

Miami-Dade Water and Sewer Department, North District Wastewater Treatment Plant (NDWWTP) Primary Clarifiers Upgrade Project; Miami, FL: Process Design Engineer. The project involved the preliminary and final design of the upgrades to the secondary clarifiers at the 120 mgd NDWWTP. This facility consists of pretreatment (screening and grit removal), primary clarification, high-purity oxygen activated sludge biological treatment, secondary clarifiers and chlorine disinfection. This work involved structural rehabilitation of the circular clarifiers including covers, odor control rehabilitation, replacement of the clarify mechanisms and associated electrical, instrumentation and controls upgrades.

City of Fort Collins, Drake Water Reclamation Facility South Process Train Biological Nutrient Removal and Equipment Replacements Project; Fort Collins, CO: Process Mechanical Engineer. Biological nutrient removal upgrade and equipment replacement project at the Drake Water Reclamation Facility's South Process Train (SPT). The upgraded SPT consist of two parallel 4.3 mgd A2O process trains, complete with anaerobic, anoxic, and aerobic zones. The upgraded bioreactor was designed for a future conversion to a 5- stage Bardenpho process. Project components include site piping modifications, replacing coarse bubble diffusers with ceramic, fine bubble diffusers, constructing new bioreactor volume, direct-drive high-speed turbocompressor aeration equipment and controls, floating mixers and surface scum removal.

Loudoun County Sanitation Authority (LCSA), Broad Run Water Reclamation Facility Project; Loudoun County, VA: Process Mechanical Engineer. Anthony was involved with the final design and construction services of the biological treatment and solids treatment. This advanced wastewater treatment facility was a "green field" facility designed to provide nutrient removal requirements of 3 mg/L for total nitrogen and 0.1 mg/L for total phosphorus. The liquids-treatment portion of the process will be designed for an average daily flow of 11 mgd. The process will consist of preliminary and primary treatment, biological treatment with biological nutrient removal (BNR) in an MBR, granular activated carbon (GAC) treatment, disinfection, and post aeration. Effluent is discharged to Broad Run and ultimately flows to the Potomac River. Primary solids, primary scum, and thickened waste activated solids (WAS) are pumped to the anaerobic digesters for solids stabilization and with enclosed digester gas waste flares. Centrifuges are used to thicken the WAS. The digested solids are dewatered with centrifuges to produce a Class B product suitable for land application.

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Professional Experience

ACE ENGINEERING LLC, Ashland, OR - Owner – January 2004 to present

I founded ACE ENGINEERING LLC in January 2004 upon relocating to Southern Oregon. ACE ENGINEERING LLC provides consulting structural engineering services for all types of buildings, including commercial, industrial, and challenging residential designs.

Responsibilities include:

I am directly responsible for the structural planning and design of each project. I perform the engineering calculations, as well as develop the contract drawings and specifications. Construction administration services are never overlooked at ACE ENGINEERING LLC.

Biggs Cardosa Associates, Inc., Eugene, OR - Staff Engineer – March 2001 to February 2004

Biggs Cardosa Associates is a consulting structural engineering firm based in San Jose, California which concentrates on the structural design of buildings and bridges.

Responsibilities include:

I was responsible for the structural design of commercial, industrial and institutional buildings, including performing engineering calculations and development of contract drawings and specifications. I provide construction administration services for projects I have designed and for projects designed by other engineers at Biggs Cardosa Assoc.

Branch Engineering, Inc., Springfield, OR - Project Engineer - May 1999 to March 2001

Branch Engineering is a consulting engineering firm with civil, structural, surveying and transportation specialties.

Responsibilities include:

At Branch Engineering I was responsible for the design of residential, industrial and commercial structures in accordance with the applicable building code.

M. R. Richards Engineering, Inc., Eugene, OR - Staff Engineer - December 1996 to May 1999

M. R. Richards Engineering is a consulting structural engineering firm which concentrates on the structural analysis and design of buildings. M. R. Richards Engineering, Inc. is now a part of DCI Engineers.

Responsibilities include:

I was responsible for the structural design of buildings, including engineering calculations, contract drawings and specifications, as well as the construction administration of many projects. I have analyzed existing structures for gravity and lateral loads and designed additions and retrofits for existing structures.

Hallsten Corporation, North Highlands, CA - Engineer-In-Training - May 1994 to November 1996

Hallsten Corporation is a design and build company for a variety of products. These products include: steel truss pedestrian, equestrian and bicycle bridges, aluminum marine gangways, stairways and floating docks.

Responsibilities include:

I performed all of the companies engineering calculations. I managed projects that required estimating, competitive bid, design, drafting, submittals, approvals, oversight of fabrication, delivery and acceptance of the final product.

Education

California State University Sacramento, Sacramento, CA – May 1996

Bachelor of Science in Civil Engineering.

Professional Registration

Registered Professional Civil and Structural Engineer in the State of Oregon — Registration Number: 64239PE

Registered Professional Civil Engineer in the State of California — Registration Number: C 60262

Professional Memberships

Structural Engineers Association of Oregon, Member.

Professional Engineers of Oregon, Member.

Marlin Gochnour, PE, SE, MBA

President

Years of Professional Experience:
22 Years

Years with Civil West:
9 Years

Location:
Coos Bay, Oregon

Education:
Bachelor of Science
Civil Engineering
Boise State University

Master of Business Administration
Western Governor's University

Registrations:
Civil Engineer
Oregon (84469PE)
Washington (51354)
Montana (20974)
Wyoming (PE13401)
Idaho (13117)
Illinois (62068278)
Hawaii (PE-15935)
Kansas (PE27732)

Structural Engineer
Utah (6677795-2203)

Certifications:
Analytical Lab Technician

Affiliations:
American Society of Civil Engineers, ASCE

Profile:

Mr. Gochnour has been in the engineering field since 2000. He has provided engineering services for private sector and municipal clients as well as the National Park Service. Marlin is experienced in, and has carried, multiple projects through all stages of the development process; from identifying initial concepts, survey, preliminary design, final design, agency approval(s), bidding, construction staking, construction management, and construction inspection.

Key Expertise:

- Wastewater Treatment
- Collection System Design
- Funding Support
- Water System Design
- Roadway Design
- ADA
- Stormwater Pollution Control
- Site Grading
- Construction Management
- Reservoirs

Relevant Project Experience:

Cannon Beach, OR
- Water Master Plan

Cave Junction, OR
- Water System Master Plan

Coos Bay, OR:
- Golden Avenue Road Reconstruction
- Vine Avenue Storm Drainage Improvements:
- Eastside - Safe Routes to School
- 2019 Emergency Projects (Roadway Drainage Improvements)
- 4th Street Roadway Safety Improvements

Cottage Grove, OR
- Cottage Heights Water System

Crater Lake, OR
- 750 LF of 6" Ductile Iron waterline with fire hydrant relocation
- Relocation of valves to accommodate easier trail access.
- Replace existing 35,000 gallon reservoir with 2 new storage reservoirs that met the needs for a domestic water & fire suppression system.
- Replace 450 LF of existing 4" pipe though open trench

Florence, OR:
- Siano Loop Drainage Improvements
- First Street Storm Improvements
- Rhododendron Roadway Improvements Phase 1
- Rhododendron Water and Road Improvements Phase2
- Hwy 101 Water Improvements
- 2nd & Ivy Storm Water Improvements
- 6th & Hemlock Storm Improvements
- Coastal Highlands Phase 1 Storm Water Improvements
- Coastal Highlands Phase 2 Storm Water Improvements
- 26th Street Safe Routes to School Improvements

Myrtle Creek, OR
- Water System Master Plan
- Water Management and Conservation Plan

Toledo, OR
- Phase 2 Water System Improvements
- Wagon Road 500 GPM Duplex Pump Station w/controls, Back-up Generator and Building.
- Skyline Station 50 GPM Duplex Pump Station w/controls, Back-up Generator and Building.
- 2000+ LF of Waterline

Vader, WA
- Wastewater Facilities Plan Update
- Wastewater Treatment Plant Design

Jerek Hodge, PE

Senior Project Engineer/Electrical Engineer

Civil West Engineering Services, Inc.

Years of Professional Experience:
20 Years

Years with Civil West:
12 Years

Location:
Coos Bay, Oregon

Education:
Bachelor of Science
Electrical Engineering
LeTourneau University

Registrations:
Civil Engineer
Oregon (83853PE)

Profile:

Jerek has 20 years of experience that includes water plant, wastewater plant, and pump station design. During his nearly 2 decades of experience, he has designed multiple pump stations, water treatment plants and forcemains. Jerek has also been involved in the planning and inspection of several Telemetry/ SCADA system improvements and backup power generator projects.

Key Expertise:

- Pump Station Design
- Lift Station
- Generator Upgrades
- Water Treatment Plant Design
- Forcemain Design
- Inflow & Infiltration Investigations
- Backup Generator Design
- Electrical Design
- Fire Flow Modeling
- Telemetry/SCADA
- Storage Tank Design
- Street Light Design

Relevant Project Experience:

Adair Village, OR
- Carr and Arnold Water and Sewer Extension Project

Cascade Head Ranch, OR
- Water Treatment Plant Design and Construction

Coos Bay, OR
- Pump Station #4
- Inflow & Infiltration Study
- Traffic Lighting for 4th Street Roadway Safety Improvements

Cottage Grove, OR
- Water Pump Station Upgrades

Harbor Sanitary District, OR
- Generator Upgrades

Myrtle Point, OR
- Apple Hill and Reedsford Road Pump Station Upgrades and Forcemain Design
- Wastewater Treatment Plant Design
- Design Calculations and Sizing of Trench Wetwell for 4.7MGD submersible pumps

Newport, OR
- 71st Street Pump Station and Storage Tank
- SCADA Master Plan
- Yaquina Heights Tank Rehabilitation
- 7th Street Pump Station Upgrades

Toledo, OR
- Phase 2 Water System Improvements
- Inflow and Infiltration Study

Vader, WA
- Wastewater Treatment Plant Design

Veneta, OR
- Jack Kelley Drive Lift Station
- Predesign Report
- Design of Electrical and Backup Power

Winston, OR
- Design of 1300 gpm triplex pump station with submersible pumps, building, 2 ton jib crane and backup generator

Matt Wadlington, PE, MBA, LEED

Principal and Willamette Valley Regional Manager

Civil West Engineering Services, Inc.

Years of Professional Experience:
24 Years

Years with Civil West:
12 Years

Location:
Albany, Oregon

Education:
Bachelor of Science
Civil Engineering
University of Arizona

Master of Business Administration
University of Arizona

Registrations:
Civil Engineer
Oregon (83524PE)
Arizona (32047)
California (57713)
Nevada (17940)
Washington (56840)

Certifications:
LEED AP

Affiliations:
Professional Engineers of Oregon

National Society of Professional Engineers

American Society of Civil Engineers

American Water Work Association

Profile:

During his 24 years as a professional engineer, Matt has managed the planning and design for municipal transportation, water, wastewater, stormwater, and site development projects. He has coordinated with clients, local government agencies and sub-consultant staff for successful completion of over 300 different projects in Oregon, Washington, California and Arizona.

In addition, Matt also spent many years early in his career preparing development plans for land developers. These included subdivision and commercial developments as well as all the infrastructure necessary to support those projects. These residential projects ranged from 5 lot subdivisions to 2000 lot master planned communities. Commercial developments included single lot development for stand-alone stores to 200 acre commercial/retail developments.

Engineering of Record:

- Adair Village, OR
- Dundee, OR
- Hubbard, OR
- Lowell, OR
- Lyons, OR
- Toledo, OR
- Veneta, OR

Supporting Role for the Engineering of Record:

- Florence, OR
- Newport, OR
- Rogue River, OR

Transportation Key Expertise:

- Roadway and Intersection Design
- Traffic Calming (road diet) Design
- Pedestrian and Bicycle Route Design
- Regional Traffic Studies
- Funding Support
- Preliminary Engineering Reports
- Master Planning

Relevant Transportation Experience:

Coos Bay, OR
- Downtown Traffic Study
- Ocean Boulevard "Road Diet"
- Ocean Boulevard Sidewalk Improvements
- Newmark Avenue Traffic Study
- Empire Boulevard Improvements

Toledo, OR
- 'A' Street Subgrade Replacement
- 10th Street Drainage Improvements

Adair Village, OR
- Development of Downtown Drainage and Traffic Plan
- Review of Commercial Development on Major Intersection

Monmouth, OR
- Traffic Calming Design

Marana, AZ
- Design and Construction Management of 4-Lane Access Road to Major Golf Resort and Upscale Residential Development
- Design of 2 "Round-a-Bout" Intersections
- Design of Over 15 miles of Local and Collector Roadways

Pima County, AZ
- Design and Construction Management of Numerous County Roadways Serving New Developments
- Traffic Studies of Major Collector Roadways and Intersections

Matt Wadlington, PE, MBA, LEED

Principal and Willamette Valley Regional Manager

Years of Professional Experience:
24 Years

Years with Civil West:
12 Years

Location:
Albany, Oregon

Education:
Bachelor of Science
Civil Engineering
University of Arizona

Master of Business Administration
University of Arizona

Registrations:
Civil Engineer
Oregon (83524PE)
Arizona (32047)
California (57713)
Nevada (17940)
Washington (56840)

Certifications:
LEED AP

Affiliations:
Professional Engineers of Oregon

National Society of Professional Engineers

American Society of Civil Engineers

American Water Work Association

Development Review Key Expertise

- Subdivision review (including streets, water, sewer, stormwater, and grading plans)
- Commercial Development review (apartments, commercial centers, office, and industrial developments)
- SDC Allocation review and analysis.
- Inspections and construction observation of public infrastructure.

Relevant Development Review Expertise

Adair Village, OR

- Calloway Creek Subdivision (200 residential units)
- William R Carr Subdivision (24 residential units)
- ServePro (3 acre commercial development)

Lowell, OR

- Crestview Estates Subdivision (26 residential units)
- Sunset Hills Subdivision (17 residential units)
- Lowell High School (New gymnasium & modular classrooms)

Veneta, OR

- Sarto Village PUD (retirement and nursing home development)

Florence, OR

- Cannery Station (mixed-use development)
- Golf Links PUD (Traffic Impact Analysis Review)
- 35th St. (Burger King TIA Review)

Hubbard, OR

Sewer Reimbursement District review

- Multiple commercial and industrial site improvement reviews
- Lot split application reviews

David L. Running, Ph.D., P.E., G.E.

Senior Geotechnical Engineer

Dave Running is a Senior Geotechnical Engineer at the Corvallis office of Foundation Engineering, Inc. Dave has over 24 years of geotechnical engineering experience and has completed geotechnical investigations for a wide range of projects including airports, buildings, bridges, culverts, dams, industrial facilities, landslides, levies, pipelines, reservoirs, roads, water and wastewater treatment and transmission facilities, and seismic hazard studies. Dave has completed numerous water and wastewater storage, treatment, and transmission line projects and numerous projects in Eugene and Springfield. Dave is currently the geotechnical lead for on-call services for the Eugene Water and Electric Board (EWEB) projects. He was also the lead for the seismic evaluation of City of Eugene bridges. A selected list of his water and wastewater project experience includes:

- Project Engineer for Metropolitan Wastewater Management Commission (MWMC) improvements (Eugene, OR). The project added a new ±5.5-mile long, pressurized wastewater transmission line connecting the Water Pollution Control Facility on River Avenue to the Biosolids Management Facility (BMF) north of Awbrey Lane. The project also included a new booster pump at the BMF site. Dave's responsibilities included completing evaluation of the foundation subgrade for the building pads.

- Project manager for Big Creek Sewer improvements (Newport, OR). The project added a new pump station and a 5,000-foot long, 16-inch diameter force main. Construction of the new pump station required a ±25 to 30-feet deep excavation adjacent to a creek. Shoring was required to retain deep cuts in soft soils and facilitate dewatering of the excavation. A series of alignment options were considered for the force main. Considerations for the force main included shallow groundwater and liquefiable soils along some of the alignment options. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations. Dave also provided consultation during construction.

- Project manager for Agate Beach Sewer improvements (Newport, OR). The project added two new pump stations and a ±1.1-mile long force main. Construction of the new pump stations required a ±30 to 37-foot deep excavations. Shoring was required to retain deep cuts and facilitate dewatering. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations. Dave also provided consultation during construction.

- Project manager for sewer improvements (Newport, OR). The project replaced an existing sewer line located within a drainage that approximately follows Big Creek and the Ocean to Bay Trail. The pipe replacement was completed using pipe bursting methods. Six jacking pits were constructed at new manhole locations to provide access for the pipe bursting equipment. Hand augering was completed to explore the subsurface conditions and evaluate potential geotechnical issues related to the excavation of the jacking pits. Dave's responsibilities included coordinating the work and evaluating the subsurface conditions.

- Project manager for new sewer line (Corvallis, OR). The project added a new 50-inch diameter by ±850-foot long sewer line in downtown Corvallis. Construction of the sewer line required a typical trench depth of ±23 feet. Shallow groundwater was a key geotechnical issue. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations including evaluating the suitability of reusing excavated soils as backfill.

- Project manager for a potential intake and water treatment plant site (Glenwood, OR). EWEB is evaluating the possibility of building a new water treatment plant near Glenwood with an adjacent new intake structure on the Willamette River. The geotechnical investigation was completed to evaluate the feasibility of the project. The investigation included exploratory borings and test pits. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations.

- Project Engineer for the PeaceHealth RiverBend Campus (Springfield). The project constructed a new hospital facility and associated underground utilities including the adjacent MLK sewer line. Dave's responsibilities included evaluating subsurface conditions, providing design and construction recommendations, and providing consultation during construction.

- Project Manager for the ATI Wah Chang wastewater transmission project (Millersburg/Albany, OR). The project included constructing a new, ±8,000-foot long, 18-inch diameter transmission line carrying treated effluent from the ATI Wah Chang plant to the City of Albany's wastewater treatment facility. Directional drilling beneath Truax Creek was required in the central portion of the project. Conventional cut and cover construction was used on the rest of the alignment. Other improvements included constructing two new pump stations and rehabilitating and lining an existing storage pond. Dave's responsibilities included providing design and construction recommendations and on-site consultation during construction.

- Project manager for wastewater transmission line investigation (Newport, OR). The project included a ±2,700-foot long undercrossing of Yaquina Bay, a ±0.9-mile long pipeline north of the Bay, and a ±2-mile long pipeline south of the Bay. Foundation Engineering was retained to complete exploratory borings to evaluate the subsurface conditions. The work included barge drilling in Yaquina Bay and several borings on land along the pipe routes. Piezometers were installed in several borings to evaluate ground water conditions. Borings were also completed along an alternative alignment and inclinometers were installed in the boreholes to evaluate slope stability concerns. Dave's responsibilities included coordinating the field exploration, completing the barge drilling, and evaluating the subsurface conditions.

- Senior reviewer Pump Station No. 1 (Coos Bay, OR). The project added a new at-grade pump station adjacent to a fuel station. The analysis indicated the site is underlain by potentially liquefiable soils. The pump station was supported on driven piles to reduce the risk associated with liquefaction. Dave's responsibilities included evaluating the seismic hazards and assisting in the development of design and construction recommendations. Dave also provided consultation during construction.

- Construction observations for the Albany Biosolids facility (Albany, OR). Foundation Engineering was retained to provide construction observations and geotechnical consultation for the construction of the Dewatering Building and Cake Storage Building at the Albany wastewater treatment plant. Dave's responsibilities included evaluation of the foundation subgrade for the building pads.

- Project manager for the Lebanon water treatment plant (WTP) (Lebanon, OR). The project included construction of a new intake structure, transmission lines, and a water treatment facility. The new facility includes buildings, storage tanks, and clarifiers. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations. Dave also provided consultation during construction.

- Project manager for the EWEB Chrenshaw 800 pump station (Eugene, OR). The project added a new at-grade pump station on a previously undeveloped property. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations.

- Project manager for the Albany Intake Facility improvements (Linn County, OR). The project expanded the existing intake facility to include new sand removal equipment. Pile foundations were required due to the presence of deep, loose backfill underlying the building area. Dave's responsibilities included evaluating the subsurface conditions and providing design and construction recommendations for the new addition. Dave also provided consultation during construction.

- Project Engineer for numerous wastewater pump station projects (various locations). The work included projects in Corvallis, Coos Bay, Gardner, Lebanon, McMinnville, Newport, and Monmouth. Dave's responsibilities included evaluating subsurface conditions and providing design and construction recommendations. Dave also provided consultation during construction.

Professional Registration
Oregon - Professional Engineer, Geotechnical Engineer
California - Professional Engineer
Washington - Professional Engineer

Academic
Ph.D.C.E. Washington State University - 1996
M.S.C.E. Washington State University - 1993
B.S.C.E. Washington State University - 1991

Experience Summary
1996 to Present — Foundation Engineering, Inc., Corvallis, Oregon

Erin J. Gillaspie, P.E.

Project Engineer

Erin Gillaspie is a geotechnical project engineer at the Corvallis office of Foundation Engineering, Inc. He has performed foundation and geotechnical investigations, engineering analysis and design, subsurface investigations, construction observation, report preparation, and laboratory and field testing. A selected list of his relevant related project experience includes:

- Field exploration, analysis and design and report preparation to replace a ±9-foot diameter corrugated metal pipe (CMP) culvert with a ±20-foot wide by ±60-foot long, single-span bridge to improve fish passage for the Lincoln County Soil and Water Conservation District. .
- Field investigation and testing for replacement of a timber culvert that is failing in Coos Bay, Oregon. Due to the presence of soft estuarine deposits, the replacement structure was placed on ±100-foot long piles.
- Field exploration including in-situ Dynamic Cone Penetrometer (DCP) testing for a ±2.5-mile long portion of Riverside Drive in Linn County, Oregon. Analysis and design was completed for flexible pavement rehabilitation and widening.
- Field exploration including DCP testing for Golf Course Drive in Newport, Oregon. Analysis and design of a new flexible pavement section and three new retaining walls are key project elements.
- Field exploration including pavement coring, DCP testing, analysis and design for new pavements for the Weaver Road Extension project in Myrtle Creek, Oregon.
- Field exploration, water infiltration testing, review and compilation of existing geotechnical data, and report preparation for a stormwater study in Glenwood, Oregon.
- Geotechnical investigation for realignment of ±2,000 feet of storm drain in Newport, Oregon. The new storm drain will extend up to ±15 feet below street level and required design and construction of new pavements.
- Geotechnical investigation for replacement of a gravity sewerline in Newport, Oregon. Bore-and-jack is being considered to install the new, ±600-foot long sewerline.
- Geotechnical investigation for a 12-inch diameter force main sewerline beneath Isthmus Slough in Coos Bay, Oregon. The new, ±2,100-foot long sewer will be installed via horizontal direction drill (HDD) bore.
- Field investigation, analysis and design and report preparation for the City of Sutherlin Waste Water Treatment Plant (WWTP) expansion. Project elements included a new sequencing batch reactor (SBR), filter, UV disinfectant factor, influent pump station, and auxiliary pump station ±2.5 miles from the WWTP site.
- Field investigation, analysis and design, report preparation and construction observation for improvements to the WWTP in Jefferson, Oregon. The improvements included extensive site filling, construction of a new sequencing batch reactor (SBR), a ±1,200 SF laboratory and office building, a pump station and new headworks.

Professional Registration
Oregon – Professional Engineer

Academic
B.S. Civil Engineering - Oregon State University - 2006

Experience Summary
2005 to Present — Foundation Engineering, Inc., Corvallis, Oregon, Geotechnical Engineer

Professional Activities
Member, American Society of Civil Engineers (ASCE)

Certifications
ODOT CDSI #41393 – expires 3/6/2022

James K. Maitland, Ph.D., P.E., G.E.

Principal/Geotechnical Engineer

Jim Maitland has 43 years of experience as a geotechnical engineer, including 25 years as Principal and Owner of Foundation Engineering, Inc. He has served on numerous civil engineering and geotechnical engineering projects involving site characterizations for utilities, roads, embankments, airports, bridges, office buildings, parking structures, hospitals, schools, jails, and medical clinics. A selected list of specific project experience with public facilities includes:

- Geotechnical investigation and site-specific seismic hazard study for the replacement of the Lebanon Fire District Main Station on West Oak Street in Lebanon, Oregon. The new facility will be a ±23,770-SF, 2-story structure. Site improvements will include new parking lots and a training ground.
- Geotechnical investigation for the planned ODOT/ODF Co-Location facility. The preliminary investigation included 29 exploratory test pits dug to document site conditions as past grading activities. The geotechnical investigation was completed as part of a due-diligence effort by ODOT/ODT in the planned purchase of the site.
- Geotechnical investigation for the replacement of the existing city hall in Monmouth, Oregon. The new facility will be a ±14,000-SF, L-shaped structure, and will include a 2-story wing for the city hall and a 1-story wing for the court/city council chamber.
- Geotechnical investigations and site-specific seismic hazard studies for the planned seismic retrofit of Willamette Hall and Industrial Arts building on the Linn Benton Community College campus in Albany, Oregon.
- Geotechnical investigations and site-specific seismic hazard studies for the planned seismic retrofit of Fire Stations No. 2 and 3 in Roseburg, and for replacement of the SLCFR Creswell Fire Station in Creswell, Oregon.
- Geotechnical investigations for a new shop and associated pavements for the City of Scio Public Works.
- Geotechnical investigations for the planned addition and improvements to the Campbell Community Center and for renovations of the Echo Hollow Pool in Eugene, Oregon.
- Geotechnical investigation and site-specific seismic hazard study for the planned replacement of the City of Eugene City Hall. The original structure was demolished, and concrete rubble was used to partially fill the site. A new, $15 M, ±30,000 sf, 4-story city hall will be built on a portion of the re-developed site.
- Geotechnical investigation and site-specific seismic hazard study for the planned renovation and seismic upgrade of the existing fire station in Siletz, Oregon. Project challenges included the presents of variable, low density fill beneath the structure.
- Geotechnical investigation for the seismic upgrade of the existing fire station in Crow, Oregon.
- Foundation investigation for a new museum planned by the Benton County Historical Society in downtown Corvallis, Oregon.
- Foundation investigation and site-specific seismic hazard study for the new Justice Center in Springfield, Oregon. The recently dedicated 3-story, $28 million facility houses the police department, the municipal court and city jail.
- Geotechnical investigation and seismic hazard study for a new fire station for the City of Yachats on the Oregon coast. Portions of the site lie within the tsunami inundation zone and sloping terrain that will require

significant site grading in combination with retaining walls. A design-phase investigation concluded there was a potential risk of liquefaction that will be mitigated by the use of a driven-pile foundation.

- Foundation investigation and site-specific hazard study for a new Oregon State Police facility in Goshen, Oregon. The proposed project includes a ±36,000 SF, single story office building, a ±5,000 SF ancillary building, and parking lots.
- Foundation investigation and site-specific hazard study for a new, ±20,000 SF library and a ±30,000 SF Civic Center (police station and courts facility) in Lebanon, Oregon. Construction of the ±$20M project was completed in 2009.
- Geotechnical consultation and foundation investigation for an LTD transit station and office buildings in Eugene, Oregon. Variable subsurface conditions were encountered in the site investigation including shallow gravels, loose basement and utility trench backfill, buried basement walls and sloping weathered mudstone. Jim also provided geotechnical consultation and construction observation during the site preparation and earthwork.
- Geotechnical investigation and seismic hazard study for a new city hall for the City of Gervais, Oregon. Project challenges included a thick layer of liquefiable soils. A thick, heavily reinforced mat foundation was used to accommodate the anticipated excessive settlement.
- Foundation investigations for the new PeaceHealth complex at the RiverBend campus in Springfield, Oregon. New structures include medical towers, medical office buildings, parking structures, and associated infrastructure.
- Foundation investigation for expansion of the existing pool facility at Sheldon High School in Eugene, a Senior Center in Albany, an addition to the Chintimini Senior Center, the Community Outreach facility and Boys and Girls Club in Corvallis, and a public natatorium in Woodburn, Oregon.
- Geotechnical investigation and construction-phase consultation for the original Linn County Jail, a later jail expansion and an emergency vehicle storage building at the facility in Albany, Oregon. Extensive overexcavation was required to remove buried mill pond fill that extended beneath the footprint of the new structure. Jim also provided geotechnical consultation for the design and construction of the adjacent police station.
- Foundation investigation, geotechnical consultation and construction observation for a new rest area/viewpoint at Hoffstadt Bluff near Mount St. Helens in Cowlitz County, Washington.
- Geotechnical investigation for the Public Safety Building in Toledo, Oregon. The facility housed the fire and police departments but was extensively damaged. Jim established that large-scale, progressive slope movement was causing the observed distress and recommended relocation, rather than reconstruction on the same site.
- Evaluation of the foundation performance of the historic OSU Education Hall under seismically induced loads. The project involved extensive subsurface exploration and analysis to define the bearing capacity of existing exterior footings which support stone walls and interior column footings during increased earthquake loads.
- Geotechnical investigation and seismic hazard study for Santa Clara Fire District. The work was part of a seismic vulnerability study and retrofit of Fire Station #2 on River Road in Eugene, Oregon.

Professional Registration

Oregon - Professional Engineer, Geotechnical Engineer
Washington - Professional Engineer
Idaho - Professional Engineer

Academic

Ph.D. Geotechnical Engineering - Oregon State University - 1977
Master of Civil Engineering - Rice University (Texas) - 1974
B.S. Civil Engineering - Rice University (Texas) - 1973

Experience Summary

1982 to Present — Foundation Engineering, Inc., Corvallis, Oregon, Principal Engineer
1978 - 1982 — Willamette Geotechnical, Inc., Corvallis, Oregon, Principal

Professional Activities

Member, American Society of Civil Engineers (ASCE)
Member, International Society of Soil Mechanics and Foundation Engineering (ISSMFE)

INTERFACE
ENGINEERING

Steve Dacus, PE, LEED AP

Principal, Senior Mechanical Engineer
Steve is a leader who enjoys pulling together members of his team to achieve a common goal on a project. He has designed many different and innovative HVAC systems and is passionate about how architectural, electrical, and mechanical systems impact energy efficiency of buildings. Steve is focused on applying his past experience to solve future challenges. He combines his knowledge of energy consumption and building systems to create designs that exceed client's expectations for performance and efficiency.

Relevant Experience

- Sweet Home Wastewater Treatment Plant; Sweet Home, Oregon
- Hood River Courthouse Planning; Hood River, Oregon
- Bainbridge Island Fire Stations #21 & #22; Bainbridge Island, Washington
- Sandy Fire Station Number 72 Evaluation and Remodel; Sandy, Oregon
- Salem City Hall HVAC Modifications; Salem, Oregon
- Brooks Building Conversion to Clackamas County Sheriff's Facility / LEED Gold; Clackamas, Oregon
- Keizer City Hall & Police Facility / LEED Silver; Keizer, Oregon
- City of Vancouver Fire Station 11; Vancouver, Washington
- City of Vancouver Operations Center Master Planning; Vancouver, Washington
- Pendleton Fire Station; Pendleton, Oregon
- Clean Water Services Rock Creek Operations & Maintenance Building Remodel; Hillsboro, Oregon
- Spokane Valley Waste Management Operations Center / LEED Gold; Spokane, Washington
- Port of Tillamook Bay Campus Wide Improvements; Tillamook, Oregon
    - Project 2.7
    - Project 3.2
    - Project 3.3
- Chelan County Public Utilities District Campus Projects; Wenatchee, Washington
    - Main Service Center Masterplan
    - Rocky Reach Campus Masterplan
    - Rock Island Campus Masterplan
- Bonneville Power Administration
    - Bonneville Power Administration Ross Maintenance Headquarters / LEED Gold Goal, Net Zero Energy; Portland, Oregon
    - Charles Luce Regional Headquarters / Net Zero Ready Goal; Pasco, Washington
- Clatskanie People's Utility District / LEED Silver Goal; Clatskanie, Oregon

Education
Bachelor of Science, Mechanical Engineering, Portland State University

Registration
Mechanical: Washington, Oregon
LEED Accredited Professional, US Green Building Council

Professional Affiliations
American Society of Heating, Refrigerating, and Air-Conditioning Engineers

Availability: 30%

INTERFACE
ENGINEERING

Cody Bargholz, PE, LEED AP, LC, CTS

Associate Principal, Senior Electrical Engineer
Cody has fourteen years of design, project management, construction supervision and cost estimation experience. His area of specialties include schools, historical buildings, libraries, recreational centers, and health care facilities. Cody designs medium and low voltage power distribution systems as well as lighting, lighting control, grounding, structured cabling, fire alarm and security systems. He is an award winning lighting designer, LEED Accredited Professional, Certified Lighting Consultant and a Certified Technology Specialist.

Experience

- Sweet Home Wastewater Treatment Plant; Sweet Home, Oregon
- Portland Parks and Recreation Mt. Tabor and Delta Park Projects; Portland, Oregon
- Chelan County Public Utility District Rocky Reach Campus Design; Wenatchee, Washington
  - Rocky Reach Dam Discovery Center Remodel
  - Service Center Design
- Ben Franklin Transit Maintenance, Operations, and Administration Facility; Richland and Kennewick, Washington
- Bonneville Power Administration
  - Ross Maintenance Headquarters / LEED Gold Goal, Net Zero Energy; Vancouver, Washington
  - North Bend Maintenance Seismic Strengthening and Building System Upgrade; North Bend, Oregon
- City of Vancouver Fire Station 1 & 2; Vancouver, Washington
- Bainbridge Island Fire Stations 21 & 22; Bainbridge Island, Washington
- Clark County Fire District 6 Stations 62 & 63; Vancouver, Washington
- Multnomah County Justice Center Building Assessment; Portland, Oregon
- Clackamas Fire District 1 Administrative Services Building; Milwaukie, Oregon
- City of Lake Oswego Police Station; Lake Oswego, Oregon
- Sandy Fire Station Number 72 Evaluation and Remodel; Sandy, Oregon
- Hillsboro 53rd Avenue Community Center; Hillsboro, Oregon

Education
Bachelor of Science, Electrical Engineering, The University of Calgary

Registration
Electrical PE: Oregon, Alberta
LEED Accredited Professional, Canada Green Building Council Certified Technology Specialist (CTS)
Lighting Consultant (LC)

Professional Affiliations
Illuminating Engineering Society of North America
Member InfoComm International
National Council on Qualifications for the Lighting Professions

Honors
Illuminating Engineering Society of North America Award of Merit – Winsport Ice Complex, Calgary, AB (2014)

Availability: 30%

INTERFACE
ENGINEERING

Tracy Bethel CPD, LEED AP

Associate, Senior Plumbing Designer
With over 25 years of experience, Tracy has managed various project types and sizes, from single floor renovations to multimillion dollar institutional complexes. As a Plumbing/Fire Protection Designer, he has designed virtually every type of project, including sporting venues, military, health care, laboratory, office, correctional, industrial facilities and residential construction. Tracy has designed projects internationally and domestically and brings extensive experience in the design of military projects for federal agencies.

Additional Experience

- Sweet Home Wastewater Treatment Plant; Sweet Home Oregon
- Portland Parks and Recreation Mt. Tabor and Delta Park Projects; Portland, Oregon
- City of Silverton Civic Center; Silverton, Oregon
- City of Tualatin Service Center; Tualatin, Oregon
- Chelan County Public Utility District Rocky Reach Campus Design; Wenatchee, Washington
    - Rocky Reach Dam Discovery Center Remodel
    - Service Center Design
- North Douglas County Fire Station Seismic Assessment; Drain, Oregon
- U.S. Department of State Foreign Service Institute National Foreign Affairs Training Center; Arlington, Virginia
- Lake Oswego City Hall and Police Department; Lake Oswego, Oregon
- Hidden Creek Community Center Phase 1; Hillsboro, Oregon
- City of Vancouver Fire Station 11; Vancouver, Washington
- One Community Health Medical Clinic; Hood River, Oregon
- Oregon State University Campus Operations Center; Corvallis, Oregon
- Clackamas Community College Roger Rook Hall Renovations; Oregon City, Oregon
- Gresham Barlow School District Sam Barlow High School Bond Improvements; Gresham, Oregon
- Hood River Central School District May Street Elementary School; Hood River, Oregon

Education
Valencia Community College

Registration
Certified Plumbing Designer (CPD) 32049
NICET Level II
LEED Accredited Professional, US Green Building Council

Availability: 30%

JASON COTA, P.L.S. — Survey Manager

EDUCATION

Associate Degree, Civil/Structural Engineering, 1994, Chemeketa Community College, Salem, Oregon.

PROFESSIONAL DATA

Registered Professional Land Surveyor (No. 58561) Oregon.

EXPERIENCE

Survey Manager August 2002 to Present
K & D Engineering, Inc.

Responsible for boundary resolutions, coordinate survey field crews, and preparing record of surveys and plats. Other duties include preparing legal descriptions, and general project management.

Survey Crew Chief November 1994 to July 2002
K & D Engineering, Inc.

Survey Crew Chief for topographic, boundary, and construction surveys. Process field data for design; perform preliminary boundary determination and calculations.

Survey Chainman June 1994 to September 1994
South Santiam Surveying

Survey crew member for boundary surveys.

BEN PERRY, P.E.
PRESIDENT, ENGINEER OF RECORD

Ben Perry's is the Engineer of Record for Landis Consulting. He manages projects for the municipal water and wastewater industries as well as K-12 and healthcare projects in the AEC Industry. His designs are clear, simple, and practical. They weave together cost-efficiency, constructability, and technical expertise. Ben Perry and Landis Consulting have earned a reputation in the AEC industry for client service, thoughtful designs, creativity, constructability, and minimal change orders.

Availability for Projects: 10%
Role: Engineer of Record, Principal Engineer

Key Project Experience

- New Water Treatment Plant and Wastewater Treatment Plant Jefferson, OR (City of Jefferson Public Works). Steve Buskirk, Public Works Director. New membrane Water Treatment Plant, Raw Water Pump Station, Reservoir modifications and new Sequencing Batch Reactor Wastewater Treatment Plant and SCADA system upgrades.
- New Wastewater Treatment Plant and Pump Stations, Netarts, OR (Netarts-Oceanside Sanitary District). Dan Mello, District Manager. New sequencing batch reactor wastewater treatment plant and main pump station. Additionally emergency generator, pump control system, and SCADA system improvements.
- New Wastewater Treatment Plant, Sweet Home, OR (City of Sweet Home Public Works, current). Preston Van Meter, Engineer of Record. (503)-451-4500. pvanmeter@westyost.com
- New Sewage Lift Stations, Drain Field Pumps, Portable Generators and Waterfront Park Improvements (City of Independence Public Works). Chris Brugato, Engineer of Record cbrugato@westech-eng.com. Landis assisted with public work additions and improvements to their wastewater infrastructure and provided electrical system upgrades for the City's feature riverfront park.
- New Harrison Elementary School and Natatorium Cottage Grove, OR (South Lane School District), Matt Allen, District Manager. lectrical systems for the District's new Harrison elementary school and the upgrades to their natatorium in Cottage Grove's most recent bond.
- New Water Wells and Treatment Plant Controls Upgrades St Paul, OR (St Paul Water District) New well at the St Paul rodeo, controls and SCADA improvements to the existing wells, and control upgrades at the Water Treatment Plant. Chris Brugato, Engineer of Record cbrugato@westech-eng.com.

YEARS OF EXPERIENCE
15

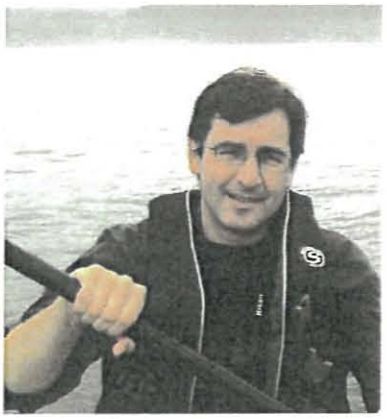
LICENSES
Professional Engineer:
2022 / Oregon / No. 86683
2023 / Washington / No. 51868
2022 / California / No. 20963
2023 / Arizona / No. 58937

EDUCATION
BSEE / 2007 /
Electrical Engineering
Grove City College,
Grove City PA

KEY EXPERTISE
Project Management
Electrical, Instrumentation & Control Design
Start-up & Commissioning
Constructability & Quality Control

CONTACT INFORMATION
Phone: (503)-606-8657
Cell: (503)-580-9600
Fax: NA
Email: ben_perry@landisconsulting.com
Website: landisconsulting.com

John van Staveren, President/ Senior Scientist



PROFESSIONAL EXPERIENCE

John has over 33 years of natural resource consulting experience throughout the Pacific Northwest and California. John is the President of the 18 person company. He has managed hundreds of projects for public and private clients. His expertise includes wetland science, endangered species consulting, state, federal and local permitting, and restoration ecology. He has provided expert witness testimony, testified at numerous public hearings and regularly presents at conferences. He has served on four state-appointed Technical Advisory Committees concerning wetland and environmental policy in the State of Oregon, authored a methodology for defining riparian areas for Statewide Planning Goal 5 and is the chair of a statewide non-profit organization.

EDUCATION

B.S. Marine Biology and Limnology, 1987
San Francisco State University
magna cum laude

YEARS EXPERIENCE:

33

REGISTRATIONS/ CERTIFICATIONS

Senior Professional Wetland Scientist (#000506)

ODOT Certified Biologist

REFERENCES

"PHS has consistently provided the highest quality professional services, always presenting deliverables that meet or exceed our original expectations."

Kathy Majidi, Natural Resources Program Coordinator, City of Gresham regarding Gresham-Fairview Trail Phases 2/3
(503) 618-2488

Pacific Habitat Services, Inc.

REPRESENTATIVE PROJECTS FOR CITIES AND COUNTIES

Wastewater Projects

- Environmental Report for Wastewater Facilities Improvements, City of Sandy
- State and Federal Permitting assessment for the Sandy River Outfall, City of Sandy
- Wetland delineation of City of Scappoose Wastewater Treatment Plant Property, City of Scappoose
- 185th Avenue Sewer Upgrade Project, Hillsboro, Clean Water Services
- Wastewater Treatment Ponds permitting, Cities of Burns and Hines

Water Projects

- 36-inch finished water transmission main, McMinnville Water and Light
- Water Intake Pipe Repair, Clackamas River Water
- Geren Island Water Supply Consulting, City of Salem
- Bull Run Reservoir – City of Portland, Water Bureau

Transportation Projects

- Chambers Covered Bridge, ODOT/ City of Cottage Grove
- Wall Street Improvements, City of Tigard
- 124th Avenue and Ann Court, City of Tigard
- Walker Road Improvements, Washington County
- Scoggins Creek Bridge in Washington County, ODOT
- Barber Street Improvements, City of Wilsonville

Park Projects

- Amazon Park Trail Permitting, City of Eugene
- Fanno Creek Trail, City of Tigard
- Oregon Highway 219 Bike Trail Permitting, City of Newberg
- George Rogers Park Master Plan, City of Lake Oswego
- Memorial Park Master Plan, City of Wilsonville
- Jon Storm Park Improvements, City of Oregon City

Availability: 35%

SANDOW ENGINEERING

KELLY SANDOW, PE

Owner, Principal Engineer

Kelly Sandow is an Oregon-registered Professional Engineer with 20 years of experience providing transportation analysis, transportation planning, and transportation engineering and design throughout Oregon. Kelly provides project management and has extensive experience and knowledge in all aspects of transportation planning, technical transportation analysis, traffic operations, pedestrian treatment design, and signal systems.

Ms. Sandow has provided consulting, design, and planning services for multi-modal and streetscape projects throughout Oregon. She has extensive experience in providing municipalities with roadway improvement options for locations that have unique design considerations.

Kelly has provided analysis, plans, and designs for jurisdictions throughout Oregon. Municipalities Kelly has prepared projects for: City of Sweet Home, ODOT, City of Junction City, Lane County, City of Oakland, Oregon, City of Eugene, City of Medford, City of Central Point, City of Grants Pass, City of Talent, City of Hermiston, City of Bend, City of Veneta, City of Warrenton, City of Coos Bay, City of Florence, City of Springfield, the City of Salem, and the City of North Plains.

EDUCATION
Oregon State University, 2005

REGISTRATION
Professional Engineer OR #77929

CERTIFICATION
Oregon DBE/WBE/ESB Certified #8760

EXPERIENCE
Sandow Engineering 2013-Present

JRH Transportation Engineering 2002-2013

PROFESSIONAL AFFILIATIONS AND SERVICE
Past President, Institute of Transportation Engineers Greater Oregon Chapter

Past President, Bethel Education Foundation

SKILLS AND EXPERTISE
-Traffic Impact Analysis
-Transit System Design
-Traffic Signal System Planning and Design
-Pedestrian Signal Systems Planning and Design
-Transportation System Planning
-Traffic Operations Analysis and Design
-Corridor Analysis and Design
-Transportation Planning Rule Analysis
-Bicycle and Pedestrian Master Plans
-Pedestrian Improvement Studies and Design

STREETSCAPE PROJECTS
-Downtown Streetscape-Sweet Home, OR
-Local Street Plan-Oakland, OR
-City Wide Multi-Use Path System, Oakland, OR
-Pearl Street Streetscape-Eugene, OR
-Coburg Road Multi-Modal System Improvements- Eugene, OR
-6th and 7th Street Traffic Calming-Eugene, OR

TRANSPORTATION SYSTEM PLANS
-Junction City, OR
-North Plains, OR
-Oakland, OR
-Hermiston, OR

UGB EXPANSION, ANNEXATION, ZONE CHANGES
-Grants Pass, OR
-Roseburg, OR
-Sutherlin, OR
-Junction City, OR

TRAFFIC IMPACT ANALYSIS
UNIVERSITY OF OREGON
-Autzen Stadium Football Field Upgrade
-Hayward Field Expansion TIA
-Hayward Field Expansion TDM
-Jane Saunders Stadium TIA
-Matthew Knight Arena TIA
-Matthew Knight Arena TDM
-PK Park TIA
-Autzen Stadium TDM
-Jaqua Center TIA
-Ford Alumni Center TIA

NORTHWEST CHRISTIAN COLLEGE
-Traffic Study for expansion project

CITY OF GRANTS PASS
-Pedestrian Safety Improvements

EUGENE SCHOOL DISTRICT 4J
-Howard E.S. Traffic Impact Analysis and Site Circulation
-River Road E.S. Traffic Impact Analysis and Site Circulation
-Safe Routes to School for 5 Elementary Schools
-Civic Stadium Feasibility Study

SPRINGFIELD SCHOOL DISTRICT
-Hamlin Middle School Traffic Analysis and Site Circulation

GREATER ALBANY SCHOOL DISTRICT
-Oak Grove Elementary School

CITY OF MEDFORD
-Medford Sports Park Traffic Analysis
MEDFORD SCHOOL DISTRICT
-South Medford High School Traffic Study
-South Medford High School Safe Routes to School
-South Medford High School Off Site Ped Improvement Design
-North Medford HS Site Circulation Study and Design

EUGENE YMCA
-Traffic Impact Analysis
-Multi-Modal Access Design

GATEWAY MALL
-Traffic Impact Analysis, Parking Study, Pedestrian Circulation, Intersection Design, Bike Parking, Drive-thru Queuing

MCKENZIE WILLAMETTE HOSPITAL
-Traffic Study
-Multi-Modal Site Design

CITY OF CENTRAL POINT
-East Side Transit Oriented District Traffic Analysis

CITY OF TALENT
-Traffic Calming for City Streets

PEDESTRIAN STUDIES AND DESIGN
LANE TRANSIT DISTRICT
-Pedestrian Path Design and Lighting
-HAWK Signals
-Rectangular Flashing Beacons
-Passive Pedestrian Crossings

CITY OF EUGENE
-18th and Alder Bike Signal-FWHA Experiment

LANE COMMUNITY COLLEGE
-Vehicle and Pedestrian Circulation Study

PEDESTRIAN CROSSING AND DESIGN
-Hilyard RRFB- Eugene, OR
-Broadway HAWK- Eugene, OR
-G Street RRFB- Grants Pass
-Columbus Ave HAWK- Medford, OR
-Cunningham Ave Ped Beacon-Medford, OR
-EMX North Station RRFB-Springfield, OR
-Gateway HAWK- Springfield, OR
-Harlow HAWK- Springfield, OR

TRAFFIC SIGNAL DESIGN
-River Road/Green Lane-Eugene, OR
-Coburg Road/Elysium Ave-Eugene, OR
-Goodpasture Island/ Spring Living-Eugene, OR
-Virginia Ave/Pony Village- North Bend, OR
-Hwy 20 Temp Signal- Sisters, OR
-Barclay Temp Signal- Salem, OR
-Goodpasture/Delta NB Ramp-Eugene, OR
-Goodpasture/Delta SB Ramp-Eugene, OR

B /// APPENDIX

Proof of Insurance

WESTYOS-01 MICHAELA

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 8/30/2021

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 License # 0E67768 IOA Insurance Services 3875 Hopyard Road Suite 200 Pleasanton, CA 94588	CONTACT NAME: Gigi Yuen PHONE (A/C, No, Ext): (925) 660-3514 50008 FAX (A/C, No): (925) 416-7869 E-MAIL ADDRESS: Gigi.Yuen@ioausa.com
	INSURER(S) AFFORDING COVERAGE — NAIC #
	INSURER A : RLI Insurance Company — 13056
INSURED West Yost & Associates, Inc. 2020 Research Park Drive Suite 100 Davis, CA 95618	INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** **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.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:			PSB0009675	9/1/2021	9/1/2022	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	1,000,000 1,000,000 10,000 1,000,000 2,000,000 2,000,000
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY			PSA0003122	9/1/2021	9/1/2022	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	1,000,000
A	[ ] UMBRELLA LIAB [X] OCCUR [X] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $			PSE0004755	9/1/2021	9/1/2022	EACH OCCURRENCE AGGREGATE	$ $	5,000,000 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [ ] N/A If yes, describe under DESCRIPTION OF OPERATIONS below			PSW0005293	9/1/2021	9/1/2022	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $	1,000,000 1,000,000 1,000,000
A	Professional Liab.			RDP0044557	9/1/2021	9/1/2022	Per Claim		1,000,000
A	Professional Liab.			RDP0044557	9/1/2021	9/1/2022	Aggregate		1,000,000

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

*** SAMPLE CERTIFICATE ***

All operations of the Named Insured.

Professional liability policy extends coverage to Cyber Security Liability.

CERTIFICATE HOLDER

SAMPLE

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

Lesie Pancoast

WE SUPPORT OUR COMMUNITIES

WE ARE WATER FOCUSED

WE TAKE PRIDE IN WHAT WE DO

WE STRIVE TO BECOME OUR BEST

WE DO WHAT'S RIGHT

WE BELIEVE IN QUALITY

WE LISTEN

WE SOLVE CHALLENGING PROBLEMS

WE SEE THE BIGGER PICTURE

WE TAKE OWNERSHIP

WE COLLABORATE

WE HAVE FUN

WE ARE WEST YOST

WEST YOST

Water. Engineered.

2022 Billing Rate Schedule

(Effective January 1, 2022 through December 31, 2022)*

WEST YOST
Water. Engineered.

POSITIONS	LABOR CHARGES (DOLLARS PER HOUR)
ENGINEERING	
Principal/Vice President	$318
Engineer/Scientist/Geologist Manager I / II	$301 / $315
Principal Engineer/Scientist/Geologist I / II	$272 / $289
Senior Engineer/Scientist/Geologist I / II	$244 / $256
Associate Engineer/Scientist/Geologist I / II	$209 / $224
Engineer/Scientist/Geologist I / II	$168 / $195
Engineering Aide	$98
Field Monitoring Services	$90
Administrative I / II / III / IV	$86 / $109 / $130 / $144
ENGINEERING TECHNOLOGY	
Engineering Tech Manager I / II	$313 / $315
Principal Tech Specialist I / II	$287 / $297
Senior Tech Specialist I / II	$263 / $275
Senior GIS Analyst	$238
GIS Analyst	$225
Technical Specialist I / II / III / IV	$168 / $191 / $215 / $240
Technical Analyst I / II	$120 / $144
Technical Analyst Intern	$97
Cross-Connection Control Specialist I / II / III / IV	$125 / $136 / $152 / $170
CAD Manager	$189
CAD Designer I / II	$147 / $166
CONSTRUCTION MANAGEMENT	
Senior Construction Manager	$304
Construction Manager I / II / III / IV	$185 / $199 / $211 / $267
Resident Inspector (Prevailing Wage Groups 4 / 3 / 2 / 1)	$162 / $180 / $201 / $209
Apprentice Inspector	$147
CM Administrative I / II	$79 / $106
Field Services	$209

- Hourly rates include Technology and Communication charges such as general and CAD computer, software, telephone, routine in-house copies/prints, postage, miscellaneous supplies, and other incidental project expenses.
- Outside Services such as vendor reproductions, prints, shipping, and major West Yost reproduction efforts, as well as Engineering Supplies, etc. will be billed at actual cost plus 15%.
- The Federal Mileage Rate will be used for mileage charges and will be based on the Federal Mileage Rate applicable to when the mileage costs were incurred. Travel other than mileage will be billed at cost.
- Subconsultants will be billed at actual cost plus 10%.
- Expert witness, research, technical review, analysis, preparation and meetings billed at 150% of standard hourly rates. Expert witness testimony and depositions billed at 200% of standard hourly rates.
- A Finance Charge of 1.5% per month (an Annual Rate of 18%) on the unpaid balance will be added to invoice amounts if not paid within 45 days from the date of the invoice.

* This schedule is updated annually

2022 Billing Rate Schedule

(Effective January 1, 2022 through December 31, 2022)*

WEST YOST
Water. Engineered.

Equipment Charges

EQUIPMENT	BILLING RATES
2" Purge Pump & Control Box	$270 / day
Aquacalc / Pygmy or AA Flow Meter	$28 / day
Emergency SCADA System	$35 / day
Gas Detector	$80 / day
Generator	$39 / day
Hydrant Pressure Gauge	$10 / day
Hydrant Pressure Recorder, Impulse (Transient)	$55 / day
Hydrant Pressure Recorder, Standard	$40 / day
Low Flow Pump Controller	$75 / day
Powers Water Level Meter	$32 / day
Precision Water Level Meter	$19 / day
Stainless Steel Wire per foot	$0.03 / day
Storage Tank	$15 / day
Sump Pump	$24 / day
Transducer Components (per installation)	$23 / day
Trimble GPS – Geo 7x	$220 / day
Tube Length Counter	$22 / day
Turbidity Meter	$22 / day
Vehicle	$10 / day
Water Flow Probe Meter	$20 / day
Water Quality Meter	$27 / day
Water Quality Multimeter	$185 / day
Well Sounder	$30 / day

* This schedule is updated annually

K & D ENGINEERING, Inc.

Engineers • Planners • Surveyors

EXHIBIT "A"

FEE SCHEDULE

Hourly Billing Rates
Effective March 1, 2022

ENGINEERING SERVICES

PRINCIPAL ENGINEER, P.E.	$ 140.00/Hr.
SR. CIVIL ENGINEER, P.E.	120.00
CIVIL ENGINEER, P.E.	98.00
SR. SURVEYOR, L.S.	120.00
JUNIOR CIVIL ENGINEER, E.I.T.	85.00
SR. ENGINEERING DESIGN TECHNICIAN	95.00
CADD DRAFTSMAN	80.00
CLERICAL	51.00
PROFESSIONAL EXPERT WITNESS TESTIMONY	175.00

SURVEY SERVICES

SURVEY CREW CHIEF-OFFICE	95.00
SURVEY TECHNICIAN	70.00
1-MAN SURVEY CREW w\EQUIPMENT	130.00
2-MAN SURVEY CREW	185.00
3-MAN SURVEY CREW	240.00

OFFICE AND FIELD SUPPLIES

5/8" IRON RODS W/PLASTIC CAPS	$ 4.00/Ea.
2"x2" WHITE PROPERTY STAKES	3.00/Ea.
CONSTRUCTION STAKES - HUBS, LATH, P.K.'S	1.00/Ea.
ROTARY HAMMER	50.00/Day
COLOR PLOTS	6.00/Ea.
LARGE FORMAT PRINT (24x36) (22x34)	3.00/Ea.
LARGE FORMAT PRINT (18x24)	2.00/Ea.
MYLAR PRINTS (24x36)	12.00/Ea.
MYLAR PRINTS (18x24)	7.00/Ea.

1. Outside Direct Expenses will be billed at cost, plus 10% for overhead.
2. K & D Engineering, Inc. does not charge a mileage fee for the operation of company owned vehicles.
3. Commercial travel, lodging and meal expenses will be billed at cost, plus 10%.
4. BOLI rates by request for Surveyors.

276 N.W. Hickory Street • P.O. Box 725 • Albany, OR 97321 • (541) 928-2583 • Fax: (541) 967-3458

SANDOWENGINEERING
160 MADISION STREET SUITE A • EUGENE, OREGON 97402 • 541.513.3376

BILLING RATES FOR SANDOW ENGINEERING

STAFF	HOURLY RATE
Kelly Sandow PE-Principal Engineer	$150
Josi Reinhart- Engineering Technician	$75
Kristin King-Clerical and Technical Review	$65
Engineering Tech Staff	$55
Data Collection-non engineering staff	$55
Traffic Counts	$65
Mileage and Lodging as per ODOT standards	
Other reimbursable at direct expense	

Exhibit A

Civil West Engineering Services, Inc. - 2022 Rate Schedule	
STAFF/ITEM	BILLING RATE
ENGINEERING	
Expert Witness	$400
Principal Engineer	$170
Regional Manager	$165
Senior Project Manager	$160
Senior Project Engineer	$149
Senior Engineering Technician	$124
Project Manager	$155
Project Engineer	$138
Staff Engineer	$117
Engineering Technician	$86
Drafter	$75
Inspector 1	$160
Inspector 2	$140
Inspector 3	$120
Engineering Intern	$52
Clerical	$52
Surveying	
Senior Surveyor (PLS)	$155
Senior Survey Technician	$124
Survey Technician	$106
1-person Survey Crew	$165
2-person Survey Crew	$194
3-person Survey Crew	$230
REIMBURSABLES	
Mileage	$0.56 - or current IRS Rate
Survey Equipment	$200/day
Lodging, meals as required for travel	Cost
Reproduction, Printing, Etc.	Cost plus 10%
Subconsultants	Cost plus 10%
Expert Witness Support Expenses	Cost
* Scoped Support Services Approved Travel Budgets Will be Developed and Approved by Client Using Standard Billing Rates.	

LANDIS

Position	Hourly Rate Range
Principal Project Manager	$ 209.44 - $ 190.00
Principal Senior Electrical Engineer	$ 209.44 - $ 190.00
Senior Engineer / Senior Project Manager	$ 175.00 - $ 150.00
Engineer III	$ 150.00 - $ 125.00
Engineer II	$ 125.00 - $ 105.00
Engineer I	$ 105.00 - $ 90.00
Electrical Department Manager	$ 145.00 - $ 120.00
Senior Designer	$ 135.00 - $ 115.00
Designer IV	$ 125.00 - $ 110.00
Designer III	$ 115.00 - $ 100.00
Designer II	$ 105.00 - $ 90.00
Designer I	$ 95.00 - $ 80.00
CAD Manager	$ 125.00 - $105.00
Lead CAD Technician	$ 105.00 - $90.00
CAD Technician	$95.00 - $ 85.00

Multiplier
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ACE ENGINEERING LLC
professional structural engineering
commercial . residential . industrial

po box 231 . ashland . oregon 97520
541.552.1417 . ace-engineeringllc.com

CHARGE RATE SCHEDULE

ENGINEER / DRAFTER	$100/hour
ADMINISTRATIVE SERVICES	$100/hour
MILEAGE	$1.00/Mile
DRAWING PRINTS, SCANS OR COPIES	$5/Sheet
EXPENSES	Cost Plus 10%
SUBCONSULTANTS	Cost Plus 10%

Charge rates applicable for 2022 calendar year.

Foundation Engineering, Inc.
Professional Geotechnical Services

BILLING RATES AND GENERAL INFORMATION

Effective January 24, 2022

Professional Staff	***Hourly Rate***
Principal Engineer [1]	$200
Senior Engineer	$176
Senior Project Engineer	$155
Senior Geologist	$155
Project Engineer	$143
Project Geologist	$143
Staff Engineer/Geologist	$113
Clerical	$77

Reimbursable Expenses	
Mileage [2]	$0.585/mile
Copies	$0.30/page
Report Binding	$15/report
Subcontractors [4]	Cost plus 15%

Per Diem Rates	
Half Day	$20
Full Day	$60
Overnight	$180

Field Charges [3]	
Datalogger	$100/month
Dynamic Cone Penetrometer	$100/day
Dynamic Cone Penetrometer	$6/tip
Field Vane	$20/half-day
Field Vane	$40/day
Gas-Powered Auger	$50/day
Inclinometer	$125/half-day
Inclinometer	$250/day
Inspection Camera	$10/half-day
pH Meter	$20/day
Methane or PID Meter	$200/week
Resistivity Meter	$75/day
Sample Storage	$200/year
Shelby Tubes	$25 each
Traffic Control Signs & Cones	$100/day
Water Level Indicator	$75/project
Water Tank Rental	$50/day
Water Transducers	$100/month
Misc. Project Supplies	Cost plus 15%

Notes:

(1) Legal and expert witness consultation by Principal Engineer is billed at an hourly rate of $250.
(2) Mileage billed at current ODOT approved rate and may differ from the rate listed above.
(3) Charges subject to change depending on the project length.
(4) Subcontractors (i.e., drillers, backhoe, flaggers, concrete cutting, etc.) billed at cost plus 15%.

Federal ID: 93-1124584
Oregon Registry No.: 366331-8

Rev. 01/24/22

820 NW Cornell Avenue • Corvallis, Oregon 97330 • 541-757-7645
7857 SW Cirrus Drive, Bldg 24 • Beaverton, Oregon 97008 • 503-643-1541

February 3, 2022

Faye Stewart, Public Works & Development Director
City of Cottage Grove
400 E Main St
Cottage Grove, OR 97424

Branch ENGINEERING Inc
Since 1977

RE: Request for Proposal for City Engineer of Record – City of Cottage Grove

Dear Mr. Stewart,

Branch Engineering Inc. is pleased to submit this proposal to provide professional engineering services to the City of Cottage Grove. We have reviewed the detailed information and requirements in the Request for Proposals (RFP), and I am confident that our team is the best match for your needs. Branch Engineering, Inc (BEI) offers a wide variety of engineering and surveying services from our Springfield location, allowing us to meet your project goals with expert levels of knowledge and a local, personalized approach. Your projects will be high priority, and dedicated staff will be assigned to provide the City of Cottage Grove with consistent communication and continuity from concept design to final inspection.

The city will likely have many choices of qualified design professionals, many of which are based an hour or more away, even some with engineers based in another state. We offer the city of Cottage Grove something unique: a firm that is headquartered 20 minutes away with the capacity, expertise, and local experience to get the job done right and the ability to respond to the city's needs on a moment's notice. In addition to sheer convenience, our location offers a heightened awareness of the issues facing communities in the Southern Willamette Valley. We believe that day-to-day city engineering needs are best met with local engineers teaming with specialists on an as-needed basis, to complete more complicated projects.

Branch Engineering has proven our municipal engineering expertise and our adaptability by sustaining long-term relationships in our local community. We have successfully completed a variety of projects for the City of Cottage Grove in the past, including design and installation for two traffic signals, pedestrian crossing studies, and public improvements for Taylor Ave and 8th St as part of a remodel for Harrison Elementary School, and most recently, assisted with obtaining a grant and designing improvements for the Safe Routes to School project. Additionally, Branch Engineering currently serves as City Engineer for Coburg, Harrisburg and Veneta, and provides various engineering services to other governmental agencies such as the South Lane School District, City of Corvallis, Springfield Utility Board (SUB), Eugene Water & Electric Board (EWEB) and ODOT.

It is our opinion that Branch Engineering is the City of Cottage Grove's best local choice for timely and cost-sensitive solutions. We respect your time and choose deliberately to provide a proposal that is concise—we believe that our qualifications and local expertise speak for themselves. We are excited for this opportunity and look forward to a favorable response.

Respectfully Submitted,
BRANCH ENGINEERING, INC.

Damien Gilbert, P.E.
Principal

Nathan Patterson, PE
Principal

CONTENTS

APPENDIX

INTRODUCTION

BRANCH ENGINEERING, INC. (BEI) offers a rare, wide spectrum of municipal engineering services for small local communities, facilities departments, and government agencies. Founded in 1977, the firm has successfully completed thousands of projects in the Southern Willamette Valley with a strong emphasis on unmatched local expertise and client satisfaction. Branch Engineering's Springfield Office is a full-service civil engineering office providing all services related to public infrastructure and planning projects.

As a mid-sized firm with a staff of over 30, including ten professional engineers and three professional land surveyors, we have the expertise and resources required to deliver complicated projects for small communities while providing the personal service of a local firm. Our clients get the full attention of experienced engineers who are conveniently available on short notice to discuss project needs.

OUR PHILOSOPHY

We prefer to work and maintain relationships locally, and unlike our competitors we generally do not take on clients hours away from our office. We believe we can best serve clients in our immediate community. Our company has been stable and remained roughly the same size for nearly 20 years based on a foundation of solid local relationships and quality engineering.

Branch Engineering, Inc. has been providing engineering services to municipalities, service districts, and other governmental agencies for over 45 years. Our resources are spent providing cost-effective and high-quality products and not on marketing or advertising. Our clients appreciate our no-nonsense approach and low overhead costs.

COMPANY POLICY

Branch Engineering, Inc. has a policy of nondiscrimination in employment because of race, age, color, gender, orientation, religion, national origin, mental or physical handicap, political affiliation, marital status, veteran status, genetic information or other protected class by law, and has a drug-free workplace policy.

All services are provided out of our conveniently-located Springfield office.

Branch Engineering Inc.

310 Fifth Street
Springfield, OR 97447
Contact: Damien Gilbert, PE
Damien@branchengineering.com
541-746-0637

Established:

1977- 45 years of service

Key Services Offered

- ✓ City Engineering
- ✓ Master Plans/Feasibility Studies
- ✓ Water Planning and Design
- ✓ Wastewater Planning and Design
- ✓ Stormwater Management
- ✓ Construction Management
- ✓ Traffic Engineering
- ✓ Transportation Engineering
- ✓ Geotechnical Engineering
- ✓ Land Surveying
- ✓ Structural Engineering
- ✓ Environmental Permitting
- ✓ Wetland & Floodplain Permitting
- ✓ Funding Acquisition Assistance
- ✓ Site Design/ Buildings/ Parking Lots

STAFFING AND QUALIFICATIONS

Damien Gilbert, PE, and Nathan Patterson, PE, company principals, will serve as project leads and main points of contact for any project put forth by the City of Cottage Grove. As owners of Branch Engineering, Inc, Mr. Gilbert and Mr. Patterson are authorized to represent BEI in negotiating and signing agreements from the City. Resumes for all personnel who may work on City projects have been included with this proposal.

Damien Gilbert, PE, Company Principal and Civil Engineer, specializes in transportation engineering and has an extensive background in the Greater Lane County Transportation and Civil Engineering industry. He has worked on a variety of projects for the City of Cottage Grove in the past, including design and traffic studies for two traffic signals at East Main St and Whiteacre Ave, and Row River Rd and Thornton Lane. He has performed over 100 local traffic impact analyses, including complex analyses of commercial, industrial and institutional facilities. His specialties include alternative modes of transportation, traffic signal and roadway design, access management and small community public infrastructure. He currently serves as Consulting City Engineer for three local cities and as on-call Traffic Engineer for two cities. He is an expert in addressing development-related traffic impacts and evaluating and improving safety and operational conditions for public and private facilities.

Nathan Patterson, PE, Company Principal and Civil Engineer, specializes in street and stormwater design. He has over fifteen years of civil engineering experience, primarily in the development of commercial and public improvement projects. A creative and technically-sound civil engineer, Nathan is one of the primary managers of the civil engineering department, serving clients ranging from cities to utility providers to school districts. He has extensive experience relating to stormwater design and modeling, environmental permitting, cost estimation, site layout and grading as well as roadway and utility design. He is proficient with AutoCAD and Autodesk Civil3D, as well as HydroCAD stormwater modeling software. He has a strong working relationship with a multitude of City, County and State government staff, as well as various school districts, public organizations and private companies.

Mr. Gilbert and Mr. Patterson will manage a team of highly-skilled engineers, surveyors and technicians:

Daniel Nelson, PLS, Company Principal and Land Surveyor, manages Branch Engineering's surveying department and will serve as project manager for any tasks requiring land surveying. Mr. Nelson has performed surveys in almost every corner of the state for a wide variety of clients. As Survey Manager, he oversees all aspects of surveying services performed by Branch Engineering. His specialties include Topographic Surveys, ALTA/NSPS Land Title Surveys, Land Divisions, Property Line Adjustments, and Elevation Certificates. Whether working with the client, land developer or architect, Mr. Nelson has the expertise necessary to accomplish the task at hand. Over the last 21 years, he has held nearly every position in the surveying profession. Mr. Nelson prides himself in understanding the challenges associated with every aspect of the job. He was recently a Board Member for the Professional Land Surveyors of Oregon, and honored as their Associate Member of the Year in 2009.

Rick Hernandez, PE, SE, will act as primary structural engineer for any project proposed by the City. Mr. Hernandez has over 23 years of experience working at Branch Engineering. He brings expertise in

a wide variety of structural systems including concrete, masonry, steel, heavy timber, cold-formed steel and light framed wood. He is experienced in the structural design of structures including recreational, educational, retail, commercial and single- and multi-family residential buildings. Many of his projects have involved design work in high wind, snow, and seismic areas.

Greg Mower, PE, is a civil engineer focusing on design for sewer, water and streets. Mr. Mower has over 24 years of experience designing and managing civil engineering projects, specializing in facilities and industrial development. He has considerable knowledge of the design and construction of streets, water and utility systems. He has spent many years as a project manager at Branch Engineering, working with clients and contractors to coordinate successful design and completion of public improvement projects. He has been with Branch Engineering for 15 years.

Daniel Haga, PE, specializes in traffic design and ADA compliance. He has over 14 years of experience in analysis and design of traffic and transportation engineering projects. He has spent considerable time preparing Traffic Impact and Transportation Planning Rule analyses, as well as preparing trip generation, parking, access and street vacation studies. Dan also has experience designing traffic signals and other public and private civil infrastructure projects. Through his experience, Dan has gained considerable practical knowledge of transportation and traffic engineering standards, analysis and design methodologies in addition to a working knowledge of public policy in the approval and design process of civil infrastructure and land development projects. He has used this knowledge to expedite the approval process by providing accurate and accountable traffic and transportation analyses. He has been with Branch Engineering for 12 years.

Ron Derrick, PE, GE, Company Principal, will serve as primary geotechnical engineer. He has over 30 years of experience in the field and has worked on numerous public and private projects throughout the Willamette Valley. As such, he is extremely knowledgeable about local surface conditions. He has extensive experience in landslide identification, investigation and remediation as well as settlement analysis and soil liquefaction. He specializes in geotechnical investigations, stormwater system design and construction, pavement design and rehabilitation, mass grading of earthwork projects and side grading design. He also has extensive experience providing design parameters for drilled shaft foundations. In his six years of experience working for the City of Salem Public Works Department, Ron oversaw the geotechnical aspects of Capital Improvement Projects as well as the utility inspection team for the City.

Chris Morris, EIT, Engineering Designer and Wetlands Specialist, has a strong educational background in fluid mechanics and hydraulics, ecological sciences and civil engineering as well as a B.S, in Ecological Engineering from Oregon State University. He is proficient in stormwater management, erosion control, modeling and design, civil engineering design and various aspects of wetland and environmental consulting. His specialties include understanding and incorporating various vegetative and soil processes into his stormwater management, creative stormwater management and treatment designs as well as wetland design, permitting and delineations. With nearly five years of experience, his projects include biological, environmental and ecological site assessments, stormwater and civil engineering design and wetland delineation and permitting.

STAFF AVAILABILITY

If selected, Cottage Grove can expect access to all key Branch Engineering personnel listed in this RFP. Branch Engineering has and will make available the necessary personnel to any project where they are needed.

MUNICIPAL EXPERTISE



Branch Engineering's highly-experienced team of employees includes licensed professional engineers, licensed professional surveyors, traffic analysts, engineering and survey technicians, and CAD specialists. This allows us to provide a wide variety of services in-house to our municipal clients, saving on costs and time. Below are just some of the services we provide.

TRANSPORTATION

Our transportation/traffic engineering department, led by Damien Gilbert, PE, has performed a multitude of traffic and transportation engineering related planning and design projects for Lane County municipalities, including sidewalk, street, and traffic signal design projects as well as safety studies in Cottage Grove.

TRANSPORTATION SERVICES OFFERED

- ✓ Safety Assessments
- ✓ Access Management Planning and Permitting
- ✓ Goal 12 TPR Evaluations
- ✓ Intersection Analyses
- ✓ Streetscape Design
- ✓ Operational and Capacity Analyses
- ✓ Pedestrian and Bicycle Facilities
- ✓ Speed Zone Analyses
- ✓ Traffic Calming Alternatives
- ✓ Traffic Impact Analyses
- ✓ Traffic Signal Warrants and Design
- ✓ Response to Citizen Requests for Traffic Control

CIVIL

Branch Engineering's civil team, led by Nathan Patterson, PE, excels at providing timely, cost-effective engineering solutions for our municipal clients. From pavement and utility design for Harrison Village Apartments in Cottage Grove, to access road feasibility studies for the Eugene Water and Electric Board, we pride ourselves on our ability to provide expert civil engineering solutions here in the Willamette valley. Our team is very familiar with permitting processes throughout Lane County. We utilize the latest versions of AutoCAD, Civil 3D, and stormwater and traffic modeling software.

CIVIL SERVICES OFFERED

- ✓ Roadway & Utility Infrastructure Design
- ✓ Industrial Site Design
- ✓ ADA Upgrades
- ✓ Mass Grading & Erosion Control
- ✓ Floodway/Floodplain Engineering
- ✓ Utility Planning/Design
- ✓ Pavement Design

Thank you for all of your efforts in making this a reality. (The Siuslaw River Bridge Interpretive Wayside) is going to be such a great addition to Old Town.

Mike Miller, City of Florence Public Works Director

UTILITIES

We have done extensive water, stormwater and wastewater design throughout the Willamette Valley. We're an expert in the design of swales, ponds, rain gardens, and other green stormwater infrastructure as well as the design of mechanical treatment systems. We utilize computer modeling software to size stormwater infrastructure and assess stormwater infrastructure. We routinely work on water line extensions and replacements in local communities. Our experience also includes working on water planning documents such as water master plans and water conservation plans.

WATER SERVICES OFFERED

- ✓ Water System Master Plans
- ✓ Feasibility Studies
- ✓ Distribution System Modeling
- ✓ Pump Stations
- ✓ River Intakes
- ✓ Water Line Extensions/Replacements
- ✓ Water Conservation Plans
- ✓ Distribution System Design and Inspection
- ✓ Fire Protection/Flow

STORMWATER SERVICES OFFERED

- ✓ Stormwater Master Plans
- ✓ Stormwater Pipelines
- ✓ Culvert Rehabilitation
- ✓ Stormwater Treatment Design
- ✓ Infiltration Testing
- ✓ Stormwater Modeling
- ✓ Basin Analysis and Feasibility Studies
- ✓ Wetlands Permitting and Mitigation
- ✓ Fish Passage Design

WASTEWATER SERVICES OFFERED

- ✓ Wastewater Master Plans
- ✓ Lift/Pump Stations
- ✓ Gravity Sewer Extensions
- ✓ Small Wastewater System Design
- ✓ Basin Plans/Feasibility Studies
- ✓ Sewer System Modeling
- ✓ Trenchless Pipe Rehabilitation
- ✓ Rate Studies
- ✓ STEP Systems
- ✓ Operations and Maintenance Manuals
- ✓ DEQ Design Reports
- ✓ Alternative Treatment Systems

STRUCTURAL

Branch Engineering has provided structural engineering services for a wealth of municipal and public clients, ranging from cities to utility districts to schools. Our structural team is led by Rick Hernandez, PE, SE and offers structural inspections, calculations, and design services.

STRUCTURAL SERVICES OFFERED

- ✓ Foundation Design
- ✓ Hwy Structures, Retaining Walls & Tie-Backs
- ✓ Seismic Assessment, Retrofit & Rehabilitation
- ✓ Signs & Awnings
- ✓ Wood Frame, Steel & Concrete Structures
- ✓ Building Retrofits and Remodeling

SURVEYING

Our land surveying department, led by Daniel Nelson, PLS, offers the expert services of three professional land surveyors and a full team of experienced survey technicians. We've performed hundreds of land surveys throughout the Willamette Valley and beyond.

SURVEYING SERVICES OFFERED

- ✓ Boundary and ALTA Surveys
- ✓ Legal Descriptions
- ✓ LOMA applications
- ✓ Subdivisions
- ✓ Partitions
- ✓ Elevation Certificates
- ✓ Property Line Adjustments
- ✓ Topographic and Existing Conditions Mapping

GEOTECHNICAL

We offer a variety of geotechnical engineering services, thanks to our knowledgeable team led by Ron Derrick, PE, GE. Our team boasts an expert level of knowledge of geological conditions and common issues found in the Willamette Valley.

GEOTECHNICAL SERVICES OFFERED

- ✓ Construction Monitoring & Materials Testing
- ✓ Pavement Design & In-Situ Testing
- ✓ Seismic Hazard Studies
- ✓ Slope Stability Analysis & Evaluations
- ✓ Subsurface Site Investigations

SPECIALTIES

In addition to those services mentioned above, our company has numerous in-house specialties that help deliver projects cost effectively and with high quality.

SPECIALTY SERVICES OFFERED

- ✓ CAD/Mapping & 3D Modeling
- ✓ Project Management
- ✓ Construction Inspection
- ✓ Public Works Contract Administration
- ✓ Bidding & Specifications
- ✓ Parks and Public Space Design
- ✓ Floodplain/Floodway Permitting
- ✓ Wetland Permitting
- ✓ NEPA Documentation
- ✓ Various DEQ Permitting
- ✓ Development Review Service

MUNICIPAL REFERENCES & PROJECT EXPERIENCE

CITY OF VENETA

KYLE SCHAUER, PUBLIC WORKS DIRECTOR
(541) 935-2191
City of Veneta
PO Box 458
Veneta, OR 97487

PROJECTS PERFORMED FOR THE CITY OF VENETA:

VENETA CITY PARK IMPROVEMENTS

Location: Veneta, OR
Services Provided: Branch Engineering provided surveying services, structural design, wetland delineation, utility design, pavement design and stormwater management for the remodeling of a city park located at 25192 East Broadway Ave in Veneta, OR. The project included design of new paved sidewalks, ADA ramps, parking area, playground area and seat wall, and associated drainage and erosion control systems. Survey crew was managed by Dan Nelson, PLS and structural design was provided by Rick Hernandez, PE, SE.

VENETA CITY PARK COVERED STAGE IMPROVEMENTS

Location: Veneta, OR
Services Provided: Rick Hernandez, PE, SE, provided structural engineering for a new covered stage. Mr. Hernandez, along with our structural support team, worked closely with the project architect for a creative design of a performance stage within the city park. Design of the stage included concrete retaining walls, concrete flatwork, and steel framing of an elliptical cover.

PERKINS RD PAVING PROJECT

Location: Veneta, OR
Services Provided: Branch civil and transportation engineering staff, including Nathan Patterson, PE, coordinated on a multi-phase project for a new paved overlay for Perkins Rd. The two-lane collector street was repaved with an overlay and included complete pavement replacement in those areas where the existing asphalt was failing. The improvements also included upgraded ADA ramps at all intersections along the project improvements. Branch provided project review, management and coordination services, base mapping and data collection, project design and bid documents, and construction inspection.

8TH ST WATER AND PAVEMENT REPLACEMENT

Location: Veneta, OR
Services Provided: Our team, led by Nathan Patterson, PE and Dan Nelson, PLS, provided surveying, utility and pavement design, 1200-C permitting, bidding management and inspection services for a pavement replacement project on 8th St in Veneta. The project included full-width pavement to be replaced on 8th St, as well as a 12" water line replacement.

EAST BOLTON WASTEWATER

Location: Veneta, OR
Services Provided: Branch Engineering staff, including Nathan Patterson, PE, worked to extend sewer to approximately 30 parcels adjacent to East Bolton Hill Rd. The project included construction of approximately 1,400 lineal feet of 8" mainline, 5 manholes, and approximately 20 laterals. Branch staff provided engineering drawings as well as a bidding manual.

CITY OF COBURG

ANNE HEATH, CITY ADMINISTRATOR
(541) 682-7871
City of Coburg
91136 N Willamette St
PO Box 8316
Coburg OR 97408

PROJECTS PERFORMED FOR THE CITY OF COBURG:

COBURG & HARRISBURG WATER RIGHTS
Location: Coburg, OR and Harrisburg, OR
Services Provided: During 2021, Branch Engineering, including Nathan Patterson, PE and Greg Mower, PE, facilitated multiple transfers and acquisitions of new water rights for Harrisburg and Coburg, as part of several new water source projects and treatment facility projects for those cities.

VAN DUYN WATERLINE REPLACEMENT
Location: Coburg, OR
Services Provided: For this utility project, Branch Engineering staff led by Damien Gilbert, PE, designed plans for replacement of 1,250 feet of 12-inch waterline, curb and gutter, sidewalk, and driveways where new waterline crossed existing hard surfaces. Four trees which were heaving sidewalk were removed, and 200 square feet of sidewalk was replaced at those locations.

MILL ST RECONSTRUCTION
Location: Coburg, OR
Services Provided: A team led by Damien Gilbert, PE as Principal-in-Charge and including Dan Nelson, PLS as survey manager and Greg Mower, PE as designer, planned the reconstruction of Mill St from Willamette St to Harrison St, amounting to roughly 250 linear feet of roadway. Civil design for the project included new curb and gutter, sidewalks, driveway approaches and ADA ramps, and utility design included stormwater improvements such as grassy swales, stormwater manholes, beehive grate inlet manholes, catch basins, valley gutters and associated piping.

MCKENZIE/HARRISON INTERSECTION IMPROVEMENTS
Location: Coburg, OR
Services Provided: Branch civil engineers, including Damien Gilbert, PE, Chris Morris, EIT, and Dan Nelson, PLS, improved intersection stormwater runoff by installing a 380-square-foot infiltration rain garden and repaving a portion of intersection to improve drainage. Branch also handled contractor bidding, infiltration testing and stormwater report.

I-5 WATERLINE CROSSING - BORE
Location: Coburg, OR
Services Provided: Our team, including Damien Gilbert, PE as Principal-in-Charge, Ron Derrick, PE, GE as geotechnical engineer, Greg Mower as engineering designer, and Dan Nelson, PLS as surveyor, provided boring to bring City water to Coburg properties on the east side of Interstate 5. In total, contractor bored a 24-inch steel casing to install 365 feet of 12-inch waterline crossing.

ROBERTS ROAD TO I-5 BORE CONNECTION
Location: Coburg, OR
Services Provided: As an addition to the above-listed boring project, a Branch team, including Damien Gilbert as Principal-in-Charge and Dan Nelson, PLS, as survey manager, designed new waterline between the existing water system and the I-5 bore to bring City water to further properties east of I-5. This included 320 feet of 12-inch waterline.

UPDATED DESIGN STANDARD DETAIL DRAWINGS
Location: Coburg, OR
Services Provided: Utilizing our vast technical knowledge, Branch civil staff, led by Damien Gilbert, PE, provided updated design standard detail drawings for the City of Coburg. These drawings

reflected current City code as well as all applicable state, county and other relevant agency standards.

VAN DUYN SIDEWALK FILL-IN PROJECT

Location: Coburg, OR
Services Provided: Branch Engineers designed approximately 300 linear feet of 5-ft-wide sidewalk to fill in a portion of sidewalk that was missing along the south side of Van Duyn St. The project also included removing and reinstalling a new driveway approach.

CITY OF HARRISBURG

MICHELE ELDRIDGE, CMC, CITY ADMINISTRATOR
(541) 935-2191
City of Harrisburg
120 Smith St
Harrisburg, OR 97446

PROJECTS PERFORMED FOR THE CITY OF HARRISBURG:

CITY OF HARRISBURG JUSTICE CENTER DESIGN

Location: Harrisburg, OR
Services Provided: Our structural engineering team, led by Rick Hernandez, PE, SE, provided structural and code compliance design for extensive remodel and retrofit of an existing older building. In addition to full design of the building structure and architectural features, Branch staff worked closely with both the City and the contractor during the construction phase for remedies of unforeseen deficiencies discovered during demolition and resulting design changes made during construction.

SMITH, MACY & 2ND ST REHABILITATION

Location: Harrisburg, OR
Services Provided: Our civil team, including Damien Gilbert, PE, Dan Haga, PE, Dan Nelson, PLS and Greg Mower, PE, provided design and bidding services for this 5-block downtown street reconstruction project. The project design included asphalt surfacing and subgrade reconstruction/replacement, new concrete sidewalk, new concrete ADA ramps and driveways, stormwater system improvements, water distribution system improvements, street lighting system appurtenances, and relocation of existing overhead dry utilities to an underground trench.

CITY OF HARRISBURG WATER TREATMENT PLANTS

Location: Harrisburg, OR
Services Provided: Branch Engineering's, led by Principal-in-Charge Damien Gilbert, PE, and structural engineer Rick Hernandez, PE, SE, provided structural engineering and code compliance design for two new wastewater treatment plants. Services included civil, structural, survey and geotechnical engineering. Designs incorporated concrete and masonry construction as well as wood-framed roofs. The structural and civil design teams worked together to accommodate water treatment equipment within the buildings and provisions in the building design for future maintenance of equipment.

SANITARY SEWER OVERFLOW IMPROVEMENTS

Location: Harrisburg, OR
Services Provided: Our team, including Greg Mower, PE, provided boring, sanitary sewer line and manhole design, trench resurfacing and reconstruction of driveways as part of utility improvements at two separate intersections. The project involved boring under an existing railroad at the intersections of Smith-Moore Alley and 4th St, and Schooling Rd and 4th St, and installing a casing and 4" diameter sanitary sewer carrier pipe with connections to existing sanitary sewer manholes and a pump connection vault.

CITY OF COTTAGE GROVE

RON BRADSBY, P.E., P.L.S., CITY ENGINEER
(541) 942-3340
City of Cottage Grove
400 E. Main Street
Cottage Grove, OR 97424

PROJECTS PERFORMED FOR THE CITY OF COTTAGE GROVE:

COTTAGE GROVE SAFE ROUTES TO SCHOOL (SRTS)

Location: Cottage Grove, OR
Services Provided: In this wide-reaching project, Branch Engineering provided survey, transportation and civil engineering services for SRTS improvements on 4th Street in Cottage Grove. Branch staff, including Damien Gilbert, PE, Greg Mower, PE, Dan Nelson, PLS, Chris Morris, EIT, and Dan Haga, PE, provided design of new sidewalks, street improvements, and utilities, as well as managed bidding services and permitting.

PEDESTRIAN CROSSING STUDY

Location: Cottage Grove, OR
Services Provided: Transportation engineer Dan Haga, PE, overseen by project manager Damien Gilbert, PE, performed pedestrian crossing studies for Gateway Blvd and E. Main St. Multiple observational periods were taken—The first in January of 2021 and the second and third were taken in July and August 2021. This was done to measure changes in vehicular and pedestrian traffic in light of COVID-19 travel restrictions. The report findings were used to identify potential locations for new marked pedestrian crosswalks on both of the studied streets.

CITY OF COTTAGE GROVE TRAFFIC SIGNAL IMPROVEMENTS

Location: Cottage Grove, OR
Services Provided: Damien Gilbert, PE oversaw the design of two new publicly-owned city traffic signals maintained by ODOT. Branch staff prepared traffic signal warrants and design, signing/striping and illumination designs, multi-use path crossing and ADA improvements design, inspection and construction management. Project was completed on-time and on budget.

HARRISON VILLAGE APARTMENTS

Location: Cottage Grove, OR
Services Provided: Branch Engineering provided survey, civil and geotechnical engineering services for a new 3.73-acre multi-family residential site. The project involved removing existing structures, sidewalk, pavement and bus stop on a former school site at 10th Ave and converting the site to house a new apartment complex. Branch staff provided an existing conditions survey, performed infiltration testing and soils analyses, and designed paving, grading and utility plans for the site, including a new looped public water line, as well as a public wastewater replacement project. Survey tasks were overseen by Dan Nelson, PLS, geotechnical tasks were overseen by Ron Derrick, PE, GE, and civil/utility tasks were overseen by Nathan Patterson, PE. Mr. Patterson also acted as project manager.

HARRISON ELEMENTARY SCHOOL AND EARLY LEARNING CENTER

Location: Cottage Grove, OR
Services Provided: Branch Engineering's civil team, led by Nathan Patterson, PE, designed and implemented public improvements to Taylor Ave and 10th St, as well as public water lines to hydrants as part of site improvements to Harrison Elementary School and the Early Learning Center. Frontage improvements also extended past the school district's property, improving the frontage along the City's Taylor Pump Station. Branch's survey crew, led by Dan Nelson, PLS, provided topographic and existing conditions surveys for the site.

EUGENE WATER & ELECTRIC BOARD

LAURA FARTHING, EWEB WATER
(541)685-7464
4200 Roosevelt Blvd
Eugene, OR 97402

PROJECTS PERFORMED FOR EWEB:

HIGHLAND DRIVE RESERVOIR SURVEY
Location: Eugene, OR
Services Provided: Branch surveyors, led by Dan Nelson, PLS, performed an existing conditions survey for an existing reservoir site and adjacent right-of-way improvements. Site conditions included steep slopes and dense vegetation. Existing boundary monuments were located to calculate right-of-way and park boundaries, and the resulting survey was used as a design base for EWEB. Branch Engineers also provided PUD and stormwater design for later construction phases of this project.

GLENWOOD EWEB ACCESS ROAD
Location: Springfield, OR
Services Provided: Nathan Patterson, PE, along with other Branch staff, provided a feasibility study as well as grading and stormwater plan amendments to aid in the development of a secondary access road to an EWEB site in the Glenwood neighborhood. Branch Engineering originally provided grading and utility design for a proposed new substation for the Springfield Utility Board on a neighboring site back in 2018, but later EWEB negotiations with Springfield Utility Board provided the opportunity for new potential access routes to the EWEB site. As such, in 2021 Branch was asked to return to the project for additional research and design work.

WATER STORAGE TANK
Location: Eugene,
Services Provided: Rick Hernandez, PE, SE and our structural team provided drawings and specifications for OSHA-mandated upgrades to existing water storage tanks on W 27th Ave in Eugene. Design included railings around access points and tank openings, anchorage for fall protection systems, analysis of an existing concrete tank roof for enlarged openings, and anchorage of new mechanical equipment to tanks.

HAYDEN BRIDGE FILTRATION PLANT: LAB BUILDING PARKING LOT
Location: Springfield, OR
Services Provided: A Branch team including Dan Nelson, PLS as surveyor and Greg Mower, PE as engineer, provided paving, grading, striping and utility plans for a new parking lot at a water treatment plant on Hayden Bridge Rd in Eugene. The project design included new curb and gutter, removable bollards, sidewalk, electric vehicle charging station, and light poles.

SPRINGFIELD UTILITY BOARD

STEVEN WAGES
(541) 744-3728
223 A St, Suite B
Springfield, OR 97477

PROJECTS PERFORMED FOR SPRINGFIELD UTILITY BOARD:

GLENWOOD SUBSTATION
Location: Springfield, OR
Services Provided: A team of Branch employees, led by Nathan Patterson, PE, prepared a Land Drainage Alteration Permit (LDAP) for the City of Springfield, as well as a 1200-C application for the Oregon Department of Environmental Quality, to support additions to the Glenwood Electrical Substation in Springfield on a site with existing wetlands. The project included the construction of

an approximately 1.3-acre level gravel pad and a gravel driveway connecting the pad to the street. Branch Engineering also designed paving, grading and stormwater plans for the site.

ELECTRIC SERVICE CENTER
Location: Springfield, OR
Services Provided: Branch's structural team, led by Rick Hernandez, PE, SE, provided structural engineering and drawings for roof retrofit of an existing flat-roofed structure on Main Street in Springfield. Our crews provided a drone photographic survey of the existing building and modeling of various roof configurations, and coordinated with the roofing consultant for best practices in design of roof coverings and the transition to the existing roofing. Mr. Hernandez's team provided final design drawings, calculations, and specifications for the owner-selected roof design.

WATER SERVICE CENTER
Location: Springfield, OR
Services Provided: Rick Hernandez, PE, and our structural team provided drawings and specifications for a new truck parking building and adjoining storage building to an existing water service center on South 18th St in Springfield. Branch Engineering also provided code compliance design for integral accessible restroom, as well as fire and life safety requirements.

LOCAL EXPERIENCE

With a flexible staff of over 30, including 10 Professional Civil Engineers and three Professional Land Surveyors, BEI is capable of handling any civil, transportation, utility, structural, geotechnical or surveying project for Cottage Grove.

BEI'S QUALIFICATIONS TO PERFORM THE WORK COTTAGE GROVE NEEDS

BEI has the available resources, both in terms of personnel and expertise, to perform the work required by Cottage Grove. Our office is conveniently located in downtown Springfield, just 20 minutes from Cottage Grove. As such, our team is always available on short notice to visit project sites or attend meetings. Your projects are our priority.

The feasibility report looks great. I really appreciate your assistance with the project. Hopefully, it will mean good things for Veneta and future activities for your firm.

Ric Ingham, Veneta City Administrator

BEI is known for efficient and quality engineering—our recurring clients include the Cities of Springfield, Harrisburg, Coburg, Veneta, Corvallis, and Eugene, as well as organizations such as EWEB and SUB. We are a dynamic company, able to adjust our intake and delivery of private work to complement our current and anticipated municipal workload. We do not compromise the quality or timeliness of projects to our priority clients such as Cottage Grove by taking on more than we can handle from new clients. As a result of our repeat clients, our workload is generally constant and predictable.

Our approach to each assignment is to remain flexible and tailor our efforts to get things done as expeditiously and affordably as possible, while always keeping the ultimate goal and objectives in mind. The role we play varies from client to client and from day to day, and our aim in serving our public clients is to remain creative and flexible. We understand that service demands always exceed capacity in the public sector and we strive to match each assignment with an approach tailored to the particulars of the situation at hand.

Branch Engineering offers a wide variety of services in-house, reducing our reliance on outside subcontractors. Our dedication to remaining flexible means we can easily accommodate new tasks or sudden changes in project schedules, and as always, our experienced staff is willing to work extra

and/or unusual hours to meet project demands. Branch Engineering reviews project schedules and budget on a weekly basis and is proactive in taking such action as necessary to maintain them, and the City of Cottage Grove can expect to receive regular communication from our team.

BEI will not charge the City for phone calls, meals, per diem or any travel expenses other than reasonable mileage costs based on federal rates and standard hourly rates. We believe in up-front communication with our client and applicable permitting agencies, as well as thorough reconnaissance and investigation prior to potentially expending significant efforts that may result in wasted time or resources. Our staff will be available via phone, internet, and via in-person meetings when requested. We are flexible, open, and will always put the City's needs first. Any major decision would be closely reviewed by the City and we would be open to alternative ideas.

BEI'S UNIQUE CAPABILITIES

Offering multiple engineering specialties, including civil, transportation, structural and geotechnical engineering, as well as land surveying services, BEI is unique in providing on-call City Engineer services to more small communities in Lane County than any other known firm. These communities include Coburg, Veneta, Harrisburg, and Coburg.

As demonstrated on numerous projects throughout the years, Branch Engineering has a no-frills, no-nonsense approach to projects. We simply get the work done on time and on budget, while delivering a product that often exceeds our client's expectations in the form of quality and efficiency.

Our design philosophy and approach to projects has been refined for serving public and municipal agencies. Many of our clients have been return customers of Branch Engineering for more than a decade, and some more than two decades. We are proud our relationship with our return clients, which allows us to focus primarily on our specialties of engineering and surveying rather than marketing and advertising which increases overhead.

FUNDING AGENCY EXPERIENCE

Our experience in helping small local communities in the Southern Willamette Valley and Lane County is unmatched.

Branch Engineering helped Coburg secure Infrastructure Finance Authority/Business Oregon loans and grants to implement the water system project included in the master plan we prepared for their town. In Florence, we helped the public works and community development directors apply for and successfully obtain zero-interest DEQ loans for rehabilitating and extending their trunk sewer system. Additionally, we helped the City apply for and obtain Flexible (FLEX) funds grants for constructing their pedestrian crossing safety improvements, and Transportation Enhancement (TE) funds for construction of their Rhododendron Multi-use Pathway that is currently in the design process. We have helped the City of Lowell apply for and receive ARRA funding and Lane County Local Road Assistance Funding for street modernization projects. Most recently, we helped Cottage Grove with cost estimating and preliminary design services to obtain a large Safe Routes to School grant.

REGULATORY EXPERIENCE

Branch Engineering is generally on a first-name basis with local regulatory agencies such as DEQ, ODOT, DSL, FEMA, and ODWP. We have worked through numerous projects involving environmental permitting with many unique aspects such as wetland banking, wetland mitigation, temporary impacts, endangered species, and irrigation canals. We have excellent working relationships with local regulatory staff, which enables us to quickly and efficiently secure county/state right-of-way permits, 1200-c Permits, wetland removal-fill permits, and plan review approvals. Our staff regularly permits project through Lane and Linn counties as well as the Oregon Department of Transportation.

SCHEDULE OF CHARGES

Principal Geotechnical Engineer	$165
Principal Engineer	$150
Senior Structural Engineer	$145
Principal Surveyor	$140
Senior Planner/Surveyor	$130
Senior Engineer – Civil	$130
Senior Engineer - Transportation	$130
Professional Engineer	$125
Professional Land Surveyor	$125
Structural Engineering Designer	$110
Civil Engineering Technician	$110
Geo Technician	$95
Engineering Designer	$95
Survey Technician	$85
Engineering Technician	$80
AutoCad Specialist	$85
Field Technician	$80
Administrative/Drafting	$75
Survey Crew	$170

Mileage	$0.59 / mile
Plots	$7.50
Sub-consultants	1.10 times cost
Printing Services	1.10 times cost

Due to our main office being conveniently located 20 minutes from Cottage Grove, in downtown Springfield, Branch Engineering will not charge the City for phone calls, meals, per diem, or any travel expenses other than reasonable mileage costs and standard hourly rates.

APPENDIX

Key Personnel Resumes

DAMIEN GILBERT, P.E.
PRINCIPAL ENGINEER

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Mr. Gilbert has a strong background in the Greater Lane County Transportation and Civil Engineering industry. He has performed over one-hundred local Traffic Impact Analyses, including complex analyses of commercial, industrial and institutional facilities. His specialties include alternative modes of transportation, traffic signal and roadway design, access management and small community public infrastructure.

With 20 years of experience, his background includes employment in both the public and private sectors. Prior to Branch Engineering, Damien spent two years working for the City of Eugene Traffic Engineering Division. Currently he serves as Consulting City Engineer for three local cities and as the on-call Traffic Engineer for two cities. He is an expert in addressing development related traffic impacts, and evaluating and improving safety and operational conditions for public and private facilities.

Professional Registration	State of Oregon Registered Professional Engineer #62780PE State of Washington Professional Engineer #47468
Education	University of Maryland – Traffic Engineering Oregon State University – Civil Engineering Lane Community College
Membership	Institute of Transportation Engineers
Branch Engineering	1997 – Present
Past Employment	City of Eugene, Oregon, Public Works Engineering, 1995 – 1997

Key Project Information

MILL ST RECONSTRUCTION - COBURG
Acted as principal-in-charge for the reconstruction of Mill St from Willamette St to Harrison St. Civil design included new curb and gutter, sidewalks, paving and stormwater improvements for one block of commercial roadway.

WATER TREATMENT PLANTS - HARRISBURG
Civil engineering design and code compliance services for two new wastewater treatment plants. Worked with structural design team to accommodate water treatment equipment within the buildings for future equipment maintenance.

TRAFFIC SIGNAL IMPROVEMENTS – COTTAGE GROVE
Provided civil design services for two new publicly-owned city traffic signals, maintained by ODOT. Project included traffic signal warrants and design, striping/signing and illumination design, ADA improvement design, and multi-use path design.

SMITH, MACY & 2ND ST REHABILITATION - HARRISBURG
Provided design and bidding services for a 5-block downtown street reconstruction project. Design included asphalt surfacing and subgrade reconstruction, new concrete sidewalk, new concrete ADA ramps, new driveways, and stormwater system improvements.

SAFE ROUTES TO SCHOOL (SRTS) – COTTAGE GROVE
Design of new sidewalk, street improvements and utilities for safe routes to school project in Cottage Grove, Oregon.

PEDESTRIAN CROSSING STUDY – COTTAGE GROVE
Performed pedestrian crossing studies for Gateway Blvd and E. Main St. Multiple observational periods were taken to monitor changes in vehicular and pedestrian traffic caused by COVID-19 travel restrictions. The original study took place in January of 2021, and additional measurements were taken in July and August of 2021.

NATHAN PATTERSON, P.E.
CIVIL ENGINEER

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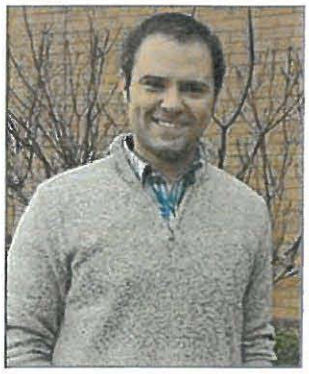

Mr. Patterson has over fifteen years of civil engineering experience, primarily in the development of commercial and public improvement projects as well as numerous institutional developments. A creative and technically-sound Civil Engineer, Nathan is one of the primary managers of the civil engineering department, serving clients ranging from cities to utility providers to school districts.

He has extensive experience relating to stormwater design and modeling, environmental permitting, cost estimation, site layout and grading as well as roadway and utility design. He is proficient with AutoCAD and Autodesk Civil3D, as well as HydroCAD stormwater modeling software. He has a strong working relationship with a multitude of City, County and State government staff, as well as various school districts, public organizations and private companies.

Professional Registration — Oregon P.E. #79232, expires 12/31/22

Education — B.S. Civil Engineering, Oregon State University

Key Project Information

Harrison Village Apartments, Cottage Grove

Provided civil engineering services for a new 3.73-acre multi-family residential project on an old school site. The project included planning and design for the removal of existing structures, sidewalk, pavement and bus stop and replacement with new paving, looped public water line, and public wastewater line.

Harrison Elementary School and Early Learning Center

Designed and implemented public improvements to Taylor Ave and 10th St, as well as public water lines to hydrants as part of renovations to Harrison Elementary school and Early Learning Center.

Perkins Rd Paving Project, Veneta

Redesigned an existing two-lane collector street to include bicycle lanes, curbs/gutters, storm drainage, sidewalks, street lights and street trees.

Glenwood EWEB Access Rd, Springfield

Provided grading and stormwater plan amendments to aid in the development of a secondary access road to an EWEB site tin the Glenwood neighborhood. This project was a revision to a prior feasibility study, also performed by Branch Engineering, after negotiations between EWEB and Springfield Utility Board provided the opportunity for additional access points on the property.

East Bolton Wastewater, Veneta

Designed sewer extension to approximately 30 parcels adjacent to East Bolton Hill Rd. The resulting plans included construction of approximately 1,400 lineal feet of 8" mainline, 5 manholes, and approximately 20 laterals.

Salem-Keizer School District

Provided civil engineering services for various additions and rehabs to Grant Community School and Cummings Elementary School, including some public street improvements for bus drop-offs.

North Gresham Elementary School, Gresham Oregon

Provided civil engineering services for the design and construction of a new elementary school in Gresham, Oregon.

DANIEL A. NELSON, P.L.S.

PRINCIPAL

SURVEY MANAGER

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Mr. Nelson has performed surveys in almost every corner of the state for a wide variety of clients. As Survey Manager, he oversees all aspects of surveying services performed by Branch Engineering. His specialties include Topographic Surveys, ALTA/NSPS Land Title Surveys, Land Divisions, Property Line Adjustments, and Elevation Certificates. Whether working with the home owner, land developer, or architect, Mr. Nelson has the expertise necessary to accomplish the task at hand.

Over the last 19 years, Dan has held nearly every position in the surveying profession. Dan prides himself in understanding the challenges associated with every aspect of the job. He is an expert at completing Existing Conditions Surveys that are to be used for architectural and civil engineering design. He often advises the various municipalities that Branch Engineering serves on various boundary issue disputes, providing expert testimony in court when needed.

Professional Registration	Oregon P.L.S. #84832
Education	BS Geomatics, Oregon Institute of Technology
Membership	Professional Land Surveyors of Oregon -Past Director -2009 Associate Member of the year National Society of Professional Surveyors
Branch Engineering	2004 - Present

Key Project Information

WILLAMALANE/CITY OF SPRINGFIELD MILLRACE SURVEY
Springfield, Oregon

COTTAGE GROVE SAFE ROUTES TO SCHOOL
Cottage Grove, Oregon

HARRISON VILLAGE APARTMENTS
Cottage Grove, Oregon

HIGHLAND DRIVE RESERVOIR SURVEY - EWEB
Eugene, Oregon

THURSTON HILLS NATURAL AREA TRAILHEAD SURVEY
Springfield, Oregon

MEADOW PARK IMPROVMENTS
Springfield, Oregon

DORRIS RANCH SURVEY
Springfield, Oregon

CENTRAL LINCOLN PUD FACILITY
Newport, Oregon

CHASE WELL FIELD SURVEY
Springfield, Oregon

CORVALLIS ADA RAMP IMPROVEMENTS-SURVEY
Corvallis, Oregon

RICK HERNANDEZ, P.E., S.E.
STRUCTURAL ENGINEER

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With over 23 years of experience at Branch Engineering, Rick Hernandez, P.E., S.E., brings expertise in a wide variety of structual systems including concrete, masonry, steel, heavy timber, cold-formed steel and light framed wood. He is experienced in the structural design of a variety of structures including educational, retail, commercial, recreational and single- and multi-family residential buildings. Many of his projects have involved design work in high wind, snow, and seismic areas.

Professional Registration	Oregon PE/SE #67092PE Washington PE/SE #50932
Education	BSE Civil Engineering, Walla Walla University
Branch Engineering	1997 - Present

Key Project Information

VENETA CITY PARK - CITY OF VENETA
Designed new covered stage structure for a city park. Worked closely with architect for a creative design of a performance stage area. Design included concrete retaining walls, concrete flatwork, and steel framing of an elliptical cover.

JUSTICE CENTER - CITY OF HARRISBURG
Provided structural engineering and code compliance design for extensive remodel and retrofit of existing older building. Also provided revisions and design changes during construction phase as unforeseen deficiencies were discovered during demolition.

WATER TREATMENT PLANT - CITY OF HARRISBURG
Served as structural engineer and provided code compliance design for two new wastewater treatment plant buildings. Building design incorporated concrete and masonry construction as well as wood-framed roofs.

CENTRAL PARK IMPROVEMENTS - CITY OF CORVALLIS
Provided structural calculations and project specifications for improvements at Central Park in Corvallis, Oregon.

CLOVERLAND & RIVERBEND TENNIS COURT DESIGN - CITY OF CORVALLIS
Provided structural calculations and details for chain link fences and footing with applicable wind load requirements as part of the design of two new tennis/pickleball courts.

ICE CAP CAMPGROUND - EUGENE WATER AND ELECTRIC BOARD
Oversaw design and construction phase services for restroom building at Ice Cap Campground.

THURSTON WELL FIELD - SPRINGFIELD UTILITY BOARD
Managed design and construction phase services for new corrosion control facility building at Thurston well field.

THURSTON HIGH SCHOOL - SPRINGFIELD PUBLIC SCHOOLS
Managed design and construction phase services for gym replacement at Thurston High School.

GREG MOWER, P.E.
PROJECT ENGINEER

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Mr. Mower has 18 years of experience designing and managing civil engineering projects, specializing in facilities and industrial development. He has considerable knowledge of the design and construction of streets, water and utility systems. He has spent several years as a project manager, working with clients and contractors to coordinate successful design and completion of public improvement projects.

Professional Registration	Oregon P.E. #53800
Education	Oregon State University Central Oregon Community College
Branch Engineering	2008 – Present
Past Employment	Sisul Engineering

Key Project Information

GrainMillers Industrial Site - Junction City
Industrial site development which included wetland permits, storm drainage design and detention, extensive grading, fire and domestic water systems and sanitary sewer pump station.

Safe Routes to School (SRTS) - Cottage Grove
Street reconstruction including asphalt surfacing, subgrade reconstruction/replacement, new concrete sidewalks, new concrete ADA ramps and driveways, stormwater system improvements, sanitary system improvements, water distribution system improvements.

Smith, Macy & 2nd St Rehabilitation - Harrisburg
Street reconstruction including asphalt surfacing and subgrade reconstruction/replacement; new concrete sidewalk, new concrete ADA ramps and driveways; stormwater system improvements; water distribution system improvements; street lighting system appurtenances, and; relocation of existing overhead dry utilities to an underground trench.

Diamond Hill Waterline and Street Improvements - Harrisburg
Public waterline replacement and roadway improvements to Diamond Hill Road, from 7th Street to 9th Street. The improvements include milling of existing asphalt, asphalt surfacing and subgrade reconstruction/replacement, new concrete sidewalks, ADA ramps and water distribution system improvements.

DAN HAGA, P.E.
TRANSPORTATION ENGINEER

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Mr. Haga has over 12 years of experience in analysis and design of traffic and transportation engineering projects. He has spent considerable time preparing traffic impact and transportation planning rule analyses, as well as preparing trip generation, parking, access and street vacation studies. Dan also has experience designing traffic signals and other public and private civil infrastructure projects. Through his experience Dan has gained considerable practical knowledge of transportation and traffic engineering standards, analysis and design methodologies in addition to a working knowledge of public policy in the approval and design process of civil infrastructure and land development projects. He has used this knowledge to expedite the approval process by providing accurate and accountable traffic and transportation analyses.

Professional Registration	Oregon P.E. #79919PE ODOT Certified Traffic Signal Inspector #43950 Idaho P.E. #17454
Education	B.S. Civil Engineering, Oregon State University
Branch Engineering	2010 - Present

Key Project Information

Corvallis Resurfacing Project, Corvallis, OR
Design and oversight of approximately 148 curb ramps to accompany 2022 City of Corvallis Street Resurfacing project.

NE Gibson Hill Rd/ Crocker Lane Traffic Signal, City of Albany, OR
Design and inspect traffic signal project on NE Gibson Hill Rd in North Albany. Design curb ramps, road widening and striping for new turn lane. Coordinate with ODOT for meeting maintenance and signal turn-on standards.

SE 34th Avenue Traffic Signals, City of Albany, OR
Design and inspect traffic signals project on SE 34th Ave in Albany. Design curb ramps and roadway Features. Coordinate utility relocates on behalf of City.

Rhododendron Drive – 9th Street to Wildwinds, City of Florence and ODOT.
Design striping and signing plans for widening project. Coordinate relocation of utilities and ODOT utility certification for ODOT-funded project.

Highway 99W Pedestrian Crossing Improvements, City of Monroe, OR
Design and inspect construction of mid-block pedestrian crossing with Rectangular Rapid Flashing Beacon (RRFB)

RON DERRICK, PE, GE
PRINCIPAL GEOTECHNICAL ENGINEER

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Mr. Derrick has 30 years of experience in the geotechnical engineering field. He has worked on numerous public and private projects and is very knowledgeable about the subsurface conditions which exist in the Willamette Valley and hillside areas. Ron has extensive experience in landslide identification, investigation and remediation as well as settlement analysis and soil liquefaction. He specializes in geotechnical investigations, stormwater system design and construction, pavement design and rehabilitation, mass grading of earthwork projects, and site grading design. He also has extensive experience providing design parameters for drilled shaft foundations.

In his six years of experience working for the City of Salem Public Works Department, Ron oversaw the geotechnical aspects of Capital Improvement Projects as well as the utility inspection team for the City. He also has over seven years of experience working in the geo-environmental field on the investigation and remediation of hazardous waste-laden soils and groundwater while employed as a consultant for the Southern Pacific Transportation Company.

Professional Registration	Oregon P.E. #16170 California P.E. #46576
Professional Registration	Oregon P.E/G.E. #16170 California P.E. #46576
Education	B.S. in Geological Engineering - University of Idaho M.S. Course work in Civil/Geotechnical/Environmental Engineering University of California, Davis
Branch Engineering	2007 - Present

Key Project Information

Harrison Village Apartments Geotechnical Investigation
City of Cottage Grove
Cottage Grove, Oregon

Vista House Geotechnical Investigation
Oregon Parks and Rec. Dept.
Florence, Oregon

Water Tank Foundation
City of Lowell
Lowell, Oregon

Cazadero Trail Flatcar Bridge
Oregon Parks and Rec. Dept.
Clackamas, Oregon

Gateway 8-Plex Geotechnical Investigation
JDL Construction
Cottage Grove, Oregon

Rhododendron Drive Geotech Investigation
City of Florence
Florence, Oregon

CHRIS MORRIS, E.I.T.

ENGINEERING DESIGNER & WETLAND SPECIALIST

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Mr. Morris has a strong educational background in fluid mechanics and hydraulics, ecological sciences and civil engineering as well as a B.S, in Ecological Engineering from Oregon State University. He is proficient in stormwater management, modeling and design, civil engineering design and various aspects of wetland and environmental consulting. His specialties include understanding and incorporating various vegetative and soil processes into his stormwater management, creative stormwater management and treatment designs as well as wetland design, permitting and delineations.

With nearly five years of experience, his projects include biological, environmental and ecological site assessments, stormwater and civil engineering design and wetland delineation and permitting. Prior to Branch Engineering, Chris spent eight years leading 20-person wildland fire crews all across the United States, including his years in college. Chris grew up in the Cottage Grove area where he developed his knowledge and love for all aspects of the outdoors.

Education	B.S. Ecological Engineering, Oregon State University Minor in Environmental Engineering Lane Community College – Associate of Science Portland State University – Wetland Delineation Certificate
Membership	Ford Family Foundation Scholar Alumni Association of State Wetland Managers Society of Wetland Scientists
Branch Engineering	2017 – Present

Key Project Information

CITY OF COBURG MUNICIPAL WATER PROJECT
Well and water system design
City of Coburg
Coburg, OR

RESIDENTIAL AND COMMERCIAL DEVELOPMENT STORMWATER AND CIVIL ENGINEERING DESIGNS
Development and design of stormwater and civil infrastructure for many various residential and commercial developments

WETLAND CONSULTING
Delineation of existing wetlands and permitting of residential, industrial and commercial projects that impact waters of the state and U.S.

SAFE ROUTES TO SCHOOL
City of Cottage Grove
Cottage Grove, OR

CITY OF HARRISBURG MUNICIPAL WATER PROJECT
Well and water system design
City of Harrisburg
Harrisburg, OR

COBURG WETLAND PARK
Wetland Park and landscaping design
City of Coburg
Coburg, OR

ENVIRONMENTAL PERMITTING
Certified Erosion and Sediment Control Lead
Environmental Site Assessment, 1200-C, 1200-Z, 401 WQC