



# Special Inspection and Testing Services Proposal

Woodland School District  
Woodland, Washington

May 4, 2012



May 4, 2012

Michael Green, Superintendent  
Woodland School District  
800 Third Street  
Woodland, Washington 98674

**Re: Special Inspection and Testing Proposal  
Woodland School District; Woodland High School  
Woodland, Washington**

Mr. Green,

**Columbia West Engineering, Inc. (Columbia West)** is pleased to submit this proposal to provide special inspection and testing services for the Woodland School District for the new High School on Dike Road.

Founded in 1999, **Columbia West** is a locally owned and operated professional multi-disciplinary geotechnical, environmental, material testing laboratory, and special inspection services provider. We specialize in providing cost-effective, quality professional services and innovative and resourceful engineering solutions. We have extensive testing and inspection experience with several local school districts and are the only Clark County, Washington-based, A2LA-accredited, WABO-certified special inspection agency.

**Columbia West** appreciates the opportunity to provide geotechnical services. Please call me at 360-823-2900 if you have any questions or need additional information.

Sincerely,

**COLUMBIA WEST ENGINEERING, Inc.**



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Lance V. Lehto, PE, GE  
President

## Section 1.0 Consultant Expertise and Qualifications

### WHY SELECT **Columbia West** ?

- **Columbia West** has significant experience providing testing and inspection services for numerous local school district, public utility, and commercial infrastructure projects. Several examples are provided in *Section 2—Representative Project Experience*.
- **Columbia West** is the only firm located in southwest Washington accredited by A2LA and certified by WABO to provide special inspection services. Our local presence allows us to reduce travel time and mileage costs and more efficiently service local projects.
- **Columbia West's** employees are active members of local community organizations and are vested in local success.
- **Columbia West** is a full-service provider of geotechnical engineering and design, construction monitoring, and structural special inspections. This allows us to service projects from initial feasibility to final occupancy.
- **Columbia West** routinely conducts initial soil investigations and geotechnical design, performs construction testing during site grading, and provides building special inspection services for structural components. Our multi-disciplined capabilities reduce project costs through enhanced coordination and efficient communication.
- **Columbia West** is respected and trusted by local regulatory agencies, including the City of Woodland, Port of Woodland, and Cowlitz County with whom we have developed relationships while providing professional services. We utilize our relationships to benefit our clients and provide superior quality services.

***DID YOU KNOW?  
Columbia West is the  
only SW Washington  
firm accredited by  
A2LA and certified by  
WABO to conduct  
special inspections.***

### FIRM PROFILE AND DESCRIPTION OF SERVICES

**Columbia West** has direct experience providing special inspection and testing services for numerous local school districts, public utilities, regulatory agencies, and industries. Typical services are listed below. *Section 2—Representative Project Experience* provides project-specific examples. Additional project experience profiles can be provided upon request. References are provided in *Section 3—References*.

- Reinforcing steel inspection
- Steel fabrication, milling, and erection inspection
- Weld inspection and testing
- Plant inspection for pre-manufactured products
- Structural steel inspection
- Epoxy grouted anchors inspection
- Expansion anchors inspection
- Floor flatness
- Masonry inspection
- Fireproofing inspection
- Lateral wood framing inspection
- Geotechnical construction testing and inspection
- Aggregate, soil, and asphalt compaction testing
- Foundation construction observations
- Underground utility backfill compaction testing
- Concrete strength testing and in-place strength evaluations
- Testing of LID components, including bio-swale soil mixtures and pervious concrete
- Accredited laboratory testing of soil, aggregate, concrete, asphalt and other construction materials
- Laboratory constant head permeability testing per ASTM 2434

Special inspection and testing services are provided by our certified special inspectors, engineering technicians, geologists, and geotechnical engineers. Samples requiring laboratory analysis are secured and transported to our accredited construction materials testing laboratory. Inspection and testing reports are distributed to all relevant entities promptly after results are complete. Distribution may include electronic and physical delivery.

## FIRM QUALIFICATIONS

### **Experienced and Qualified Technical Staff**

Our experienced and qualified technical staff consists of licensed professional engineers, geologists, special inspectors and engineering technicians. Company organization includes assignment of project responsibilities and tasks to an individual engineer or geologist with oversight by a principal engineer. **Columbia West** personnel are cross-trained and able to provide services for multiple projects. Several units of active and reserve field equipment are available to facilitate testing requirements. The Firm Organization Chart—Key Personnel section of this proposal provides brief biosketches of key company personnel.

### **A2LA-Accredited Laboratory and Quality Control System**

Geotechnical investigation and materials testing services are conducted in accordance with quality assurance guidelines set forth by ISO/IEC, A2LA, ASTM, AASHTO, ICC, WSDOT, and Army Corp of Engineers standards. **Columbia West** maintains and follows an internal quality manual approved by A2LA. In accordance with the quality manual, **Columbia West** carefully evaluates clients and projects, reviews contracts, testing protocol, and job standards, and conducts internal training and equipment calibration in accordance with A2LA standards.

***DID YOU KNOW?  
Columbia West provided special inspection and testing services for the Les Schwab project just south of the new high school site.***

### **Nuclear Gauge License**

**Columbia West** maintains a radioactive materials license in accordance with US Nuclear Energy and Radiation Control Act (RCW 70.98) and WAC Chapters 246-220 through 246-255, and our personnel are trained and certified for operation and transportation of density gauges in accordance with 49 CFR 172.

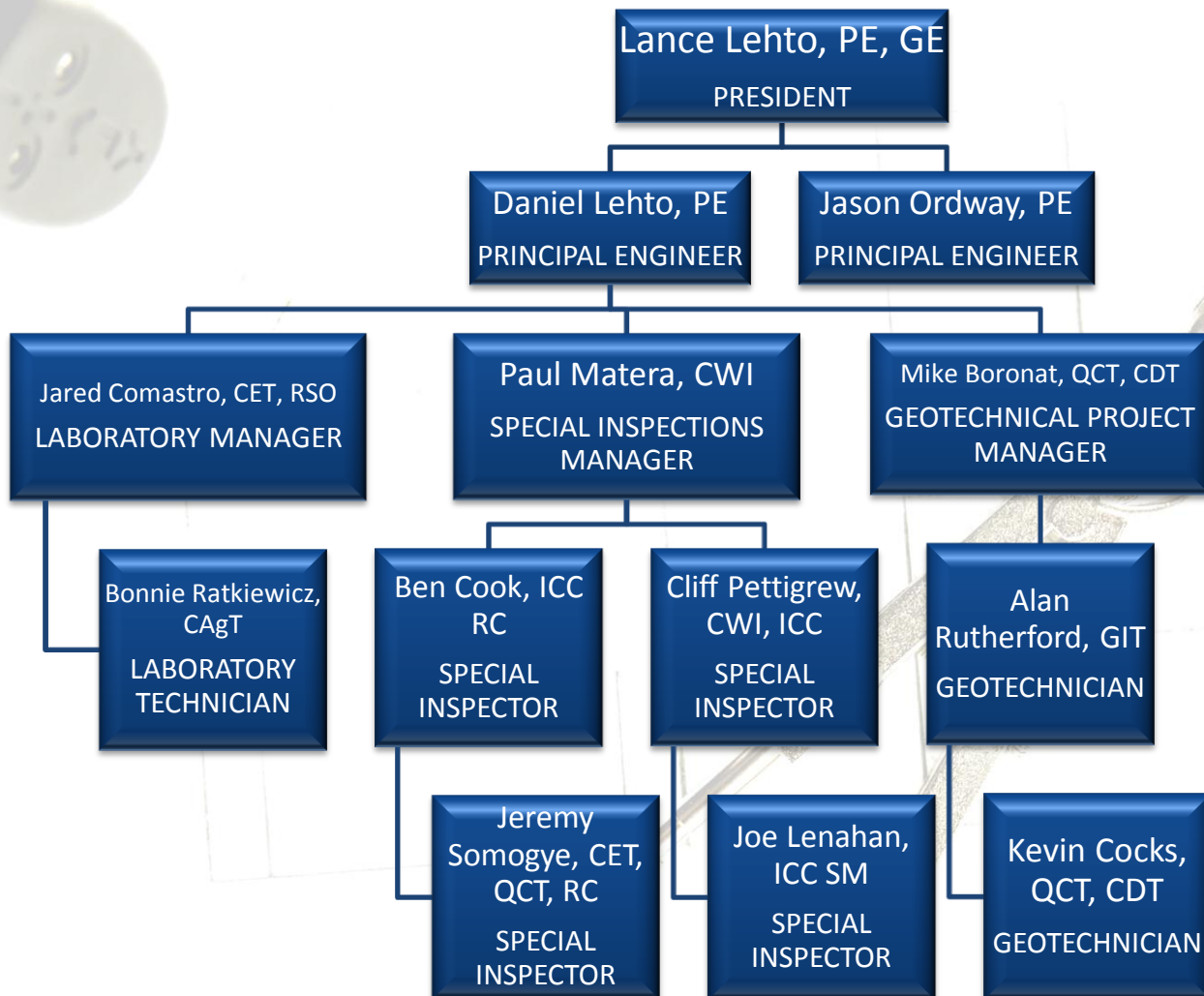
### **WABO and ICC-Certified Inspectors and**

**Columbia West's** special inspections division and inspectors are certified by ICC, WABO, and OBOA. Our materials laboratory is

**Technicians**

routinely calibrated in accordance with ISO/IEC international standards and is accredited by A2LA, WABO, OBOA and ODOT. We maintain accreditation by participating in AMRL and CCRL proficiency programs. Laboratory and field personnel are certified by NICET, ACI, WAQCT, ODOT, and WFLHD to perform field and laboratory tests for soils, aggregate, concrete, and asphalt.

**FIRM ORGANIZATION CHART – Key Personnel**



**Columbia West’s** skilled and experienced key personnel are identified in the organizational chart above. Brief descriptions of personnel responsibilities and experience are provided below. More detailed personnel qualifications can be found in *Section 4—Resumes*.

**Lance V. Lehto, PE, GE**

Lance Lehto is **Columbia West’s** owner, founder and managing principal. Mr. Lehto has more than 17 years of experience in the geotechnical engineering, geotechnical construction monitoring, quality control testing, and special inspections field. Mr. Lehto holds a Master of Science degree in Civil Engineering and professional engineering licenses in Washington

**Daniel Lehto, PE**

and Oregon. He also serves as the firm's special inspection technical director and client manager. His duties and responsibilities include client management, comprehensive project and company leadership, client correspondence, project planning, bidding, scheduling, and report review.

Daniel Lehto is a geotechnical principal engineer and the firm's operations manager. He holds a Bachelor of Science degree in Civil Engineering and professional engineering licenses in Washington and Oregon. He has more than 12 years of professional experience. Mr. Lehto's expertise lies in geotechnical engineering calculations, specialized geotechnical design, company operations, and client management.

**Jason Ordway, PE**

Jason Ordway is a geotechnical principal engineer. He has nearly 10 years of professional experience, holds a Bachelor of Science degree in Civil Engineering, and is a licensed professional engineer in Washington. He will be responsible for directing field investigations, developing sampling programs, performing engineering calculations, preparing design recommendations, preparing geotechnical site investigation reports and overseeing field investigation and subsurface exploration.

**Paul Matera, CWI**

Paul Matera leads **Columbia West's** structural special inspection division. A former vice president at a nation-wide special inspection firm, Mr. Matera has over 25 years of experience managing and inspecting a full range of transportation, civil infrastructure, industrial, port, and public utility projects. Mr. Matera holds several ICC and WABO certifications in various inspection disciplines and is the firm's quality manager. He is responsible for coordinating and directing special inspection services. He is **Columbia West's** lead project manager and point of contact for special inspection projects.

**Mike Boronat, QCT, CDT**

Mike Boronat has over 15 years of experience with geotechnical construction monitoring, special inspections, quality control testing, and project management. His primary areas of expertise lie in civil infrastructure, transportation, highway, port, and bridge projects. Mr. Boronat has managed more than 100 construction and testing projects in the Vancouver-Portland metropolitan area during the past 15 years. Mr. Boronat will serve as project manager and primary point of contact for geotechnical testing and construction monitoring projects.

**Jared Comastro, CET,  
RSO**

Jared Comastro is **Columbia West's** laboratory manager. Mr. Comastro has more than 10 years of experience in construction materials laboratory testing, laboratory management, and quality control process implementation. Mr. Comastro holds numerous ACI, NICET, WAQCT, and ODOT laboratory testing certifications, and is the firm's radiation safety officer. Mr. Comastro will oversee and manage geotechnical laboratory testing and construction materials testing for work performed. He will be responsible for verifying individual tests for soils and aggregates are conducted in accordance with appropriate specifications.

***DID YOU KNOW?  
Columbia West is one of  
very few firms nationwide  
accredited to conduct  
pervious concrete testing  
per ASTM C1688.***

**Cliff Pettigrew, CWI,  
CET, ICC**

Cliff Pettigrew is **Columbia West's** lead special inspector and assistant project manager. Mr. Pettigrew has nearly 15 years of structural special inspection experience and holds ICC and WABO certifications in welding, structural steel, concrete, masonry, epoxy anchors, and fireproofing. Mr. Pettigrew will be responsible for providing lead special inspection services

**Jeremy Somogye, CET,  
QCT, RC**

Jeremy Somogye is **Columbia West's** lead geotechnical inspector. He has nearly 10 years of geotechnical construction monitoring, nuclear gauge compaction testing, concrete testing, and quality control experience. Mr. Somogye also provides reinforced concrete, masonry and epoxy anchor special inspections. He holds numerous NICET, ACI, and ODOT testing and inspection certifications. Mr. Somogye will provide lead geotechnical field quality control and compaction testing.

**Joe Lenahan, CET, ICC  
SM**

Joe Lenahan is a masonry special inspector and geotechnical technician. Mr. Lenahan has 6 years of geotechnical and special inspection experience. He holds several ACI and ICC certifications. He will be responsible for providing nuclear gauge compaction testing, conducting proof rolls and masonry inspections, and assisting geotechnical and special inspection supervisors in accordance with project requirements.

**Alan Rutherford, GIT**

Alan Rutherford is a project geologist. Mr. Rutherford holds a Bachelor of Science degree in Geology. He has more than 5 years of experience conducting geotechnical site investigations, infiltration testing, slope stability analysis, construction monitoring, quality control testing and laboratory testing. Mr. Rutherford also has several years of experience managing civil infrastructure and transportation projects and conducting geotechnical technician duties.

***DID YOU KNOW?  
Columbia West is currently  
providing special inspection  
and testing services for  
active school projects with  
the Vancouver and Camas  
School Districts.***

**Ben Cook, GIT, ICC RC**

Ben Cook is a staff geologist. He holds a Bachelor of Science degree in Geology. Mr. Cook has more than 8 years of experience conducting geotechnical testing, construction monitoring, subsurface investigations, slope stability analysis, geotechnical instrument monitoring, quality control oversight, and laboratory testing. Mr. Cook also holds ICC certifications in rebar and concrete inspection.

**Bonnie Ratkiewicz,  
CAgT**

Bonnie Ratkiewicz is **Columbia West's** laboratory technician. She holds a Bachelor of Science degree in Geology. Under the direction of the laboratory manager, she will be responsible for conducting soil, aggregate, concrete, asphalt, and masonry laboratory tests as required by project specifications.

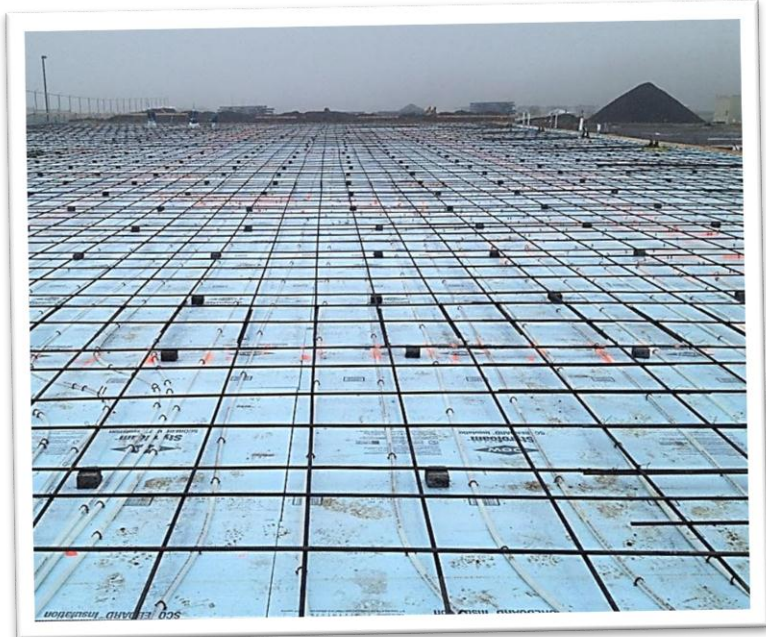
**Kevin Cocks, QCT, CDT**

Kevin Cocks is a geotechnical and concrete testing technician. Mr. Cocks has 6 years of geotechnical testing experience. He holds several ODOT and ACI certifications. He will be responsible for providing nuclear gauge compaction testing, conducting proof rolls and assisting geotechnical and special inspection supervisors in accordance with project requirements.

## Section 2.0 Representative Project Experience

### Vancouver School District Vancouver, Washington 2012

**Columbia West** provided special inspection and testing services for the Vancouver School District for a district facility located on Fruit Valley Road in Vancouver, Washington. Services included rebar, concrete, structural steel, welding, and epoxy anchors. **Columbia West** also provided geotechnical construction monitoring, sample collection, laboratory analysis, and quality control compaction testing of soil, asphalt, aggregate, and concrete.



**Columbia West** inspecting rebar for the Vancouver School District.



**Columbia West** conducting concrete testing at Woodburn Elementary School.

### Woodburn Elementary School Camas School District Camas, Washington 2011-2012

**Columbia West** provided structural special inspections, including steel, welding, bolting, rebar, concrete, and epoxy anchors for the Camas School District for the Woodburn Elementary School located in Camas, Washington. **Columbia West** also provided geotechnical site investigation and design services. **Columbia West** also provided geotechnical quality control testing and observation during construction, including compaction testing and laboratory analysis of embankment fills, aggregate road base, and concrete slab base.



**Grass Valley Elementary  
School  
Camas School District  
Camas, Washington  
2007-2009**

**Columbia West** provided testing services for the Camas School District for the Grass Valley Elementary School located in Camas, Washington. **Columbia West's** services included geotechnical construction monitoring and testing, concrete testing for slump, air content, and compressive strength, asphalt testing, and laboratory testing for concrete, aggregate, soil, and asphalt.



**Columbia West** conducting pavement testing and evaluation at Grass Valley Elementary School.



**Luke Jensen Sports Complex  
Clark County Parks  
Department  
Vancouver, Washington  
2011**

**Columbia West** provided field and laboratory construction testing and inspection for ball fields, embankment fill, aggregate base, utility trench backfill, turf drain rock, infiltration systems, rain gardens, and storm water pond berms. **Columbia West** also provided structural special inspections for the concession building, including masonry, concrete, rebar, and epoxy anchors.

**Columbia West** provided special inspection and geotechnical testing services for the Luke Jensen Sports Complex.

**Helen Baller Elementary  
School  
Camas School District  
Camas, Washington  
2007-2009**

**Columbia West** provided testing services for the Camas School District for the Helen Baller Elementary School located in Camas, Washington. **Columbia West's** services included geotechnical construction monitoring and testing, concrete testing for slump, air content, and compressive strength, asphalt testing, and laboratory testing for concrete, aggregate, soil, and asphalt.



**Columbia West** testing concrete at Helen Baller Elementary School in Camas, Washington.



**Salmon Creek Park and  
Ride  
Clark County Public Works  
Vancouver, Washington  
2011**

**Columbia West** provided pervious concrete testing for the Salmon Creek Park and Ride located in Vancouver, Washington. Columbia West is the only Portland-Vancouver area firm accredited to conduct pervious concrete testing per ASTM C1688. Pervious concrete testing consisted of field measurements of density and void content by the Proctor method and the jig method.

**Columbia West** conducting concrete testing at the Salmon Creek Park and Ride.

**OALC Church  
Woodland, Washington  
2007-2012**

**Columbia West** provided special inspections and geotechnical testing services for the OALC Church located immediately west of the high school site. Services included special inspection and testing of masonry, rebar, concrete, grout, soils, aggregates, and asphalt. **Columbia West** also provided geotechnical engineering, surcharge design, pile design, settlement calculations, and geotechnical construction monitoring.



**Columbia West** conducting steel pile testing and inspection at the OALC Church in Woodland, Washington.



**Oak Tree Restaurant  
Woodland, Washington  
2011**

**Columbia West** provided special inspection and testing services for recent improvements and renovations to the Oak Tree Restaurant located in Woodland, Washington. Services included inspection and testing of concrete, rebar, structural steel, footings, and post-installed epoxy anchors.

**Columbia West** conducting steel and concrete inspections at the Oak Tree Restaurant in Woodland, Washington.



**Mt. Hood HWY 35 Bridge  
US Federal Highway Dept.  
Mt. Hood, Oregon  
2010-2012**

**Columbia West** provided field and laboratory construction materials and special inspection and testing services for drilled shafts, embankment fills, high-performance concrete decks, maturity-meter concrete, rebar cages, structural steel, aggregate base, structural fill embankments, and hot-mix asphalt.

**Schurman Way  
City of Woodland  
Woodland, Washington  
2011**

**Columbia West** provided field and laboratory construction materials inspection and testing services for aggregate, cement-treated base, concrete curbs, sidewalks, utility trenches, roundabout plaza areas, structural fill embankments, and hot-mix asphalt. Testing included casting and shearing cement-treated base specimens.



**NE 99<sup>th</sup> Street  
Clark County Public Works  
Vancouver, Washington  
2010**

**Columbia West** provided bio-swale mix gradation, permeability, and infiltration testing for NE 99<sup>th</sup> Street. **Columbia West** has extensive expertise testing a wide variety of bio-swale mix, rain garden mix and other growing media for gradation, organic content, acidity, and permeability via constant and falling head methods.



**Kalama Export Grain Silos  
Port of Kalama  
Kalama, Washington  
2010-2012**

**Columbia West** provided geotechnical testing and construction inspection services for a 30-million-dollar grain silo project located at Port of Kalama, Washington. Services included driven grout pile driving observations, soil and aggregate nuclear gauge compaction testing, air content, slump and compressive strength concrete testing, rebar inspection, and epoxy anchor inspection.



**Columbia West** provided testing and inspection services for the Kalama Export grain silos in Kalama, Washington.



**Kol Ami Synagogue  
Vancouver, Washington  
2009-2012**

**Columbia West** provided special inspections, testing, and geotechnical construction monitoring for the Kol Ami Synagogue in Vancouver, Washington. Services included inspection and testing of masonry, structural steel, welding, rebar, concrete, epoxy anchors, soils, aggregates, and concrete. Columbia West also provided geotechnical investigation, engineering calculations, and design recommendations.

**Columbia West** conducting masonry and rebar inspection at the Kol Ami Synagogue in Vancouver, Washington.

**Goddard School for Early  
Childhood Development  
Vancouver, Washington  
2012**

**Columbia West** provided special inspection and testing services for the Goddard School for Early Childhood Development located in Vancouver, Washington. **Columbia West's** services included rebar inspections, concrete testing, slab moisture testing, and epoxy anchor testing.



**Columbia West** testing rebar and concrete at the Goddard School.



**Les Schwab  
Woodland, Washington  
2010-2011**

**Columbia West** was retained by Les Schwab to provide special inspection and testing services and geotechnical construction monitoring. Services included inspection and testing of masonry, rebar, concrete, epoxy anchors, structural steel, welding, soils, aggregates, and asphalt. Columbia West also provided geotechnical investigation, engineering calculations, and design recommendations.

**Columbia West** conducting structural steel and welding inspection at Les Schwab in Woodland, Washington.

## **Section 3.0** References

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Columbia West has established excellent long-term relationships with many local school districts, ports, clients, architects, and engineers. A list of references is provided below.

**Heidi Rosenberg, Capital Improvements Manager**

Camas School District  
841 NE 22<sup>nd</sup> Avenue  
Camas, Washington 98607  
(360) 335-3000 x78223

**Greg McDonald, Les Schwab Project Manager**

Les Schwab Headquarters  
20900 Cooley Road  
Bend, Oregon 97701  
(541) 416-5206

**Steve Oaks, Owner, Kalama Export**

Kalama Export  
Port of Kalama  
Kalama, Washington 98864  
(360) 673-3900

**Trent Jorgenson, Project Manager, Architect**

DOWA Architects  
907 SW Stark Street  
Portland, Oregon 97205  
(503) 226-6950

**Chris Robertson, Associate Principal**

Harper, Houf, Peterson, Righellis, Inc.  
1104 Main Street  
Suite 100  
Vancouver, Washington 98660  
(360) 750-1131

**Rob Palena, Principal Engineer**

Mackay & Sposito, Inc.  
1325 SE Tech Center Drive  
Vancouver, Washington 98683  
(360) 695-3411

**Don Hynes, Project Manager**

CPM  
429 NE 29<sup>th</sup> Avenue  
Portland, Oregon 97232  
(503) 702-4585

## **Section 4.0 Resumes**

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### **LANCE V. LEHTO, PE, GE**

#### **PRESIDENT**

##### **BIOSKETCH**

Mr. Lance V. Lehto is the owner, founder and managing principal of Columbia West Engineering, Inc. (Columbia West). Mr. Lehto has more than 17 years of experience in the geotechnical engineering and environmental consulting field. After obtaining his Master of Science degree in Civil Engineering from Montana State University in 1995, Mr. Lehto worked in the private geotechnical consulting field as a field engineer, project engineer, and project manager. Since initial opening of operations in 1999, Mr. Lehto has guided Columbia West to consistent sustained growth while developing the company's reputation for providing quality reliable professional services. Under Mr. Lehto's direction, Columbia West has successfully provided geotechnical engineering, environmental consulting, and construction materials testing services for more than 1,200 projects in the Portland-Vancouver area.

##### **REGISTRATION AND CERTIFICATION**

Registered Professional Engineer, Washington and Oregon  
Registered Geotechnical Engineer, Oregon  
Technical Director, Special Inspections, WABO, Washington  
40-Hour OSHA Training (29 CFR 1910.120)  
40-Hour Surface, Underground, Metal and Nonmetal MSHA Training (30 CFR)  
Nuclear Moisture-Density Gauge License, Washington and Oregon  
Chi Epsilon, Civil Engineering National Honor Society

##### **EDUCATION**

Master of Science, Civil Engineering, Montana State University, 1995  
Bachelor of Science, Civil Engineering, Montana State University, 1993

##### **REPRESENTATIVE PROJECT EXPERIENCE**

Mr. Lehto's project experience includes public agency and utility projects, multi-phased commercial projects, and challenging industrial sites. His specific duties and responsibilities include comprehensive project and company leadership and management, client correspondence, project planning, bidding, scheduling, engineering and design calculations, and report preparation. Mr. Lehto's multi-faceted 17-year career experience includes geotechnical engineering, materials testing, and special inspections. Specific areas of expertise include geotechnical site investigations, slope stability analysis, bearing capacity evaluations, foundation and retaining wall design, soil infiltration testing, construction materials laboratory testing and special inspections for concrete, steel, welding, rebar and epoxy anchors. Mr. Lehto leads Columbia West's engineering personnel development, mentoring, and educational training program. He is responsible for public hearing presentations and client and agency correspondence. His visionary skills are utilized for company planning, strategy development, and corporate leadership. He is an active member of the engineering design community, serving as a member of various public and private strategy and planning committees and design professional groups. He routinely attends professional engineering and planning seminars and continuing education presentations. Columbia West's rapid growth, client loyalty, and superb professional reputation are a testament to Mr. Lehto's style of leadership by example.



**DANIEL E. LEHTO, PE****PRINCIPAL ENGINEER****OPERATIONS MANAGER/GEOTECHNICAL SERVICES PROJECT MANAGER****BIOSKETCH**

Mr. Daniel Lehto is the Operations Manager for Columbia West Engineering, Inc. (Columbia West). Mr. Lehto has helped develop recent company growth utilizing innovative plans, solutions and management practices. Employee training, scheduling, organization, staff meetings and oversight are a few of Daniel's responsibilities. Mr. Lehto is also the Geotechnical Services Project Manager for Columbia West. As the Geotechnical Services Project Manager, Mr. Lehto is responsible for bidding and cost estimating, business development, client care, project delegation and coordination and report preparation and review. Daniel's extensive knowledge of local soil conditions has resulted in the successful management of more than three hundred geotechnical projects since becoming head of the department in November 2003.

**EDUCATION AND REGISTRATION**

Registered Professional Engineer, Washington  
Registered Professional Engineer, Oregon  
ACI – Concrete Field Testing Technician – Grade 1  
Troxler – Nuclear Gauge Training Certification  
Bachelor of Science, Civil Engineering, 2004  
American Society of Civil Engineers

**REPRESENTATIVE PROJECT EXPERIENCE**

Mr. Lehto's project experience ranges from large single and multi-family residential developments to multi-phased commercial and industrial projects. His specific duties and responsibilities include comprehensive project organization and management, oversight and training of personnel, bidding and cost estimating, engineering and design calculations, and document preparation. Mr. Lehto has developed his career in the local area and has more than 11 years of direct relevant geotechnical project experience. He has conducted and been involved with numerous site investigation and drilling and subsurface explorations for diverse project types. Mr. Lehto also has extensive experience with bearing capacity and settlement evaluations and foundation design. In addition to geotechnical design, Mr. Lehto also leads Columbia West's construction oversight, testing, and observation division. Within the division, he is responsible for employee training, management, scheduling, billing, and overall project coordination. He is an active member of the engineering design community and routinely attends professional engineering seminars, engineering design presentations, and continuing education presentations. Mr. Lehto's continued graduate studies at Portland State University include advanced shallow foundation design, advanced soil mechanics, detailed soil settlement behavior, and deep foundation design.

## **JASON L. ORDWAY, PE**

### **PRINCIPAL ENGINEER / PROJECT ENGINEER**

#### **BIOSKETCH**

Mr. Jason L. Ordway is a Project Engineer at Columbia West Engineering, Inc. (Columbia West). Mr. Ordway has more than eight years of experience in the geotechnical engineering field. After obtaining his Bachelor of Science degree in Civil Engineering from Portland State University in 2004, Mr. Ordway began work in the private geotechnical consulting field as a staff and project engineer. Mr. Ordway interned at Columbia West during portions of his undergraduate work performing laboratory testing and some construction monitoring. Mr. Ordway continues work on graduate studies at Portland State University.

#### **REGISTRATION AND CERTIFICATION**

Registered Professional Engineer, Washington  
Nuclear Moisture-Density Gauge License, WA and OR  
ACI level 1, field grade 1 concrete field testing  
American Society of Civil Engineers

#### **EDUCATION**

Bachelor of Science, Civil Engineering, Portland State University, 2004

#### **REPRESENTATIVE PROJECT EXPERIENCE**

Mr. Ordway's project experience ranges from large single and multi-family residential developments to commercial, industrial, and municipal projects. His specific duties and responsibilities include project organization and management, engineering and design calculations, document preparation and review, and construction quality control. Mr. Ordway has developed his career in the local area and has more than eight years of relevant geotechnical project experience. He has conducted and been involved with numerous site investigation and subsurface explorations for diverse project types. Mr. Ordway has design experience with bearing capacity, settlement evaluation, pavements, foundations, slope stability, and site-specific seismic response. As a part of Columbia West's construction oversight team, Mr. Ordway has conducted and controlled topsoil stripping and undocumented fill removal verification, grading observations and testing, drainage recommendations, utility trench backfill, roadway subgrade, asphalt, concrete curb and gutter, soil bearing assessments and construction materials laboratory testing. Grading observations and testing include control of critical fill slopes, lift thickness, moisture-conditioning, compaction, cement-amended grading, reinforced steepened slope construction, earthen dam construction, and recommendations for drainage, benching, and keying of fills constructed on slopes. He is an active member of the engineering design community and routinely attends professional engineering seminars, engineering design presentations, and continuing education presentations. Mr. Ordway's continued graduate studies at Portland State University include advanced shallow foundation design, LRFD, and deep foundation design.

**PAUL A. MATERA, SR.**  
**CORPORATE QUALITY MANAGER**  
**SPECIAL INSPECTIONS DIVISION MANAGER**

**BIOSKETCH**

Mr. Matera is responsible for leading Columbia West Engineering's Special Inspection Division and serves as its Corporate Quality Manager. He brings over 24 years of inspection experience in the construction field; 24 years as a construction inspector and 20 years in project and business management. Mr. Matera is a WABO/OBOA certified Special Inspector who serves on the City of Portland - Special Inspection Advisory Committee, the WABO SIRP board, the OBOA Special Inspection Board, is past president of the Oregon Council of Engineering Laboratories (OCEL), and is active in many other industry organizations such as SMPS, AGC, etc. Mr. Matera is also responsible for development and compliance of the Columbia West Quality Manual which adheres to the guidelines set forth by ISO/IEC 17025, ASTM E 329, ASTM C 1077, ASTM D 3666, and ASTM D 3740.

**REGISTRATION AND CERTIFICATION**

AWS-QC1 Certified Welding Inspector  
ICC Certified -Reinforced Concrete, Structural Masonry, Structural Steel & Welding, and Structural Bolting  
WABO Certified – Proprietary Anchors, Reinforced Concrete, and Structural Masonry.  
Construction Quality Management for Contractors (USACE)  
National Nuclear Safety Commission Certified RSO  
Nuclear Gauge Operator  
American Concrete Institute Certified Technician Grade I

**REPRESENTATIVE EXPERIENCE**

Mr. Matera's experience is a result of his 24 years of experience performing or managing special inspections on a wide variety of projects. He has successfully managed over 400 projects since 1992 -- from small commercial developments to large complex federal projects. His project types include roads, bridges, waste water treatment plants, fish passageways and hydroelectric facilities, military commissaries and barracks, hospital campuses, high-rise structures, parking garages, industrial facilities, port facilities, airports, big box retail developments, mixed use developments, strip malls, cinema's, long term care facilities, schools and universities, sports complexes and residential projects. He is a certified special inspector with experience in many types of quality controls systems on earthwork and heavy civil projects, reinforced concrete and reinforcing steel inspections, concrete forensics, structural masonry, anchor systems, shear walls and diaphragms, large structural steel projects, welding inspections both in the fabricators facility and on the project site and structural bolting inspections.

## **MIKE BORONAT, QCT, CDT**

### **GEOTECHNICAL SERVICES PROJECT MANAGER**

#### **BIOSKETCH**

Mr. Boronat is a Geotechnical Services Project Manager at Columbia West Engineering, Inc. (Columbia West). Mr. Boronat has over 15 years of inspection experience in the construction field. He is a certified inspector with experience in many types of civil infrastructure projects, geotechnical field and laboratory work, quality control, soil testing, and special inspections. He has been involved in hundreds of projects ranging from rural street improvements to multi-million dollar hospital builds. Mr. Boronat has performed testing and inspection of hundreds of jobs throughout southwest Washington and Oregon with an emphasis on state and county road, highway, and bridge projects. He has experience in managing large and complex projects with significant annual fees. He also has experience directly supervising up to 11 subordinates including inspectors, technicians, and administrative staff.

#### **REGISTRATION AND CERTIFICATION**

Certified Quality Control Technician (ODOT)  
Certified CDT (ODOT)  
CAgT (ODOT)  
CAT-1 (ODOT)  
Level I Concrete Technician (ACI)  
Project Manager Certification Program (PSI)

#### **EDUCATION**

Clackamas High School, Milwaukie, Oregon

#### **REPRESENTATIVE PROJECT EXPERIENCE**

Mr. Boronat's project experience includes large civil engineering and transportation infrastructure projects. He has managed or provided testing and inspection services for hundreds of road and bridge projects, ranging from rural street improvements to multi-million dollar highway and bridge projects. He has several years of geotechnical laboratory testing and field inspection experience. Mr. Boronat has specific experience with transportation projects, particularly with Oregon Department of Transportation. His career experience also includes special inspection projects for ports, public utilities, school districts, and public agencies. His management experience includes client communication, project set-up, planning and scheduling, invoicing and budgeting, bidding, report preparation and document review.

## **CLIFFORD L. PETTIGREW, CET**

### **SPECIAL INSPECTOR/PROJECT MANAGER**

#### **BIOSKETCH**

Mr. Clifford L. Pettigrew is a Special Inspector at Columbia West Engineering, Inc. (Columbia West). Mr. Pettigrew has more than fifteen (15) years of experience in the special inspections field. Mr. Pettigrew's field experience has included observation, testing, and inspection of soils, asphalt, reinforced concrete, structural masonry, prestressed concrete, structural steel, bolting, and welding, and spray applied fireproofing for a variety of projects. Mr. Pettigrew assists the company with special inspections, field supervision, QA/QC auditing, and project management.

#### **REGISTRATION AND CERTIFICATION**

Certified Welding Inspector (CWI)  
ACCP-TC-1A Level II (ASNT)  
Master of Special Inspection (ICC)  
Spray-applied Fireproofing Special Inspector (ICC)  
Structural Masonry Special Inspector (ICC)  
Structural Steel and Bolting Special Inspector (ICC)  
Structural Welding Special Inspector (ICC)  
Reinforced Concrete Special Inspector (ICC)  
Concrete Field Testing Technician – Grade I (ACI)  
Nuclear Gauge and Radiation Safety Certified  
Radiation Safety Officer Training

#### **EDUCATION**

Associate of Applied Science, Civil Engineering, Portland Community College, 1998

#### **REPRESENTATIVE PROJECT EXPERIENCE**

Mr. Pettigrew's project experience ranges from large single and multi-family residential developments to multi-level commercial, hospital, school, industrial and urban development projects. His specific duties and responsibilities for Columbia West include field and fabrication inspection, laboratory testing, client correspondence, proposal writing, and project management. Mr. Pettigrew's career experience includes welding, reinforced concrete, structural masonry, bolting, fireproofing, and anchor inspection, sub-surface site investigations, floor flatness testing, soil boring and test pit logging, concrete field and compressive strength testing, foundation and road subgrade assessments, report writing, laboratory testing, and overall coordination and scheduling of field testing and inspection services.

## **JARED J. COMASTRO, CET**

### **LABORATORY MANAGER, RADIATION SAFETY OFFICER**

#### **BIOSKETCH**

Mr. Comastro has more than 10 years of relevant laboratory and field testing experience and has been instrumental in the growth of the materials laboratory for Columbia West. His responsibilities include training and oversight of laboratory and field technicians, review of test data, AMRL and CCRL proficiency testing, equipment maintenance and calibration, equipment purchases, and quality assurance. Mr. Comastro is also responsible for development and compliance of the Columbia West Quality Manual which adheres to the guidelines set forth by ISO/IEC 17025, ASTM E 329, ASTM C 1077, ASTM D 3666, and ASTM D 3740.

#### **REGISTRATION AND CERTIFICATION**

ACI – Concrete Field Testing Technician – Grade 1  
ACI – Concrete Laboratory Testing Technician – Level 1  
ACI – Concrete Strength Testing Technician  
ACI – Aggregate Testing Technician – Level 1  
WAQTC/ODOT – Certified Aggregate Technician (CAgT)  
WAQTC/ODOT – Certified Asphalt Technician (CAT1)  
WAQTC/ODOT – Certified Density Technician (CDT)  
WAQTC/ODOT – Certified Embankment and Base Technician (CEBT)  
NICET – Level II Construction Materials Testing, Soils  
NICET – Level II Construction Materials Testing, Concrete  
NICET – Level I Construction Materials Testing, Asphalt  
NICET – Level II Geotechnical Engineering Technology, Laboratory  
NICET – Level II Geotechnical Engineering Technology, Generalist  
NICET – Level I Geotechnical Engineering Technology, Construction  
Troxler – Nuclear Gauge Training Certification  
Troxler – Radiation Safety Officer Training Certification  
Materials Testing Training in WFLHD Field Test Methods, 2008  
Excavation and Confined Space Safety (Competent Person Training)

#### **EDUCATION**

Drexel University – Philadelphia, Pennsylvania, Materials 1996 to 1998

#### **REPRESENTATIVE EXPERIENCE**

Mr. Comastro's experience ranges from large single and multi-family residential developments to multi-phased commercial projects providing both construction monitoring and laboratory analyses on various construction materials. His specific duties and responsibilities include leadership and management of laboratory and field technicians, maintaining equipment and instrument calibration and verification requirements, client correspondence, processing test information, document review, and report preparation. Mr. Comastro also leads, organizes, and performs personnel audits and conducts company procedure and document reviews in compliance with Columbia West's Quality Manual. Mr. Comastro developed the company Radiation Safety Program which includes maintaining calibration, licenses, staff awareness and training, dose exposure monitoring, operating, transportation, and emergency procedures.

**BONNIE J. RATKIEWICZ**  
**LABORATORY TECHNICIAN****BIOSKETCH**

Ms. Bonnie J. Ratkiewicz joined Columbia West Engineering, Inc. as a Laboratory Technician in August, 2011. She obtained previous experience working for three years as a Field and Laboratory Teaching Assistant while completing her Bachelor of Science degree in Geology. Her responsibilities include laboratory testing of aggregate, soil, concrete and asphalt materials, report preparation, AMRL and CCRL proficiency testing, and routine calibration and maintenance of lab and field equipment.

**REGISTRATION AND CERTIFICATION**

WAQTC/ODOT – Certified Aggregate Technician  
Nuclear Gauge Training Certification

**EDUCATION**

Bachelor of Science, Geology, James Madison University, 2010

**REPRESENTATIVE PROJECT EXPERIENCE**

Ms. Ratkiewicz's experience ranges from large-scale highway and transportation projects to multi-phased commercial, multifamily and residential developments. She conducts laboratory analyses on various construction materials, including soil, aggregate, asphalt, and concrete. She conducts testing in Columbia West's main laboratory and has provided quality control testing during production of aggregates in a mobile laboratory setting. She is also actively cross-training with Columbia West's field technicians and engineers in geotechnical site investigations and construction monitoring activities.

## **JEREMY M. SOMOGYE, CET**

### **GEOTECHNICAL TECHNICIAN / SPECIAL INSPECTOR**

#### **BIOSKETCH**

Mr. Jeremy M. Somogye is a geotechnical technician and special inspector at Columbia West Engineering, Inc. (Columbia West). Mr. Somogye has more than 10 years of experience in the geotechnical engineering and special inspections field. Upon completion of his undergraduate studies in 2001, Mr. Somogye completed an internship at the Missouri Department of Transportation (MODOT) in Design and Cultural Resource Management which led to his start in the private geotechnical consulting field as a Soils and Concrete Technician and a Senior Engineering Technician. Mr. Somogye assists the company with site investigations, infiltration testing, soil boring, laboratory testing, foundation subgrade assessments, reinforced concrete and proprietary anchor special inspections and general construction monitoring. Mr. Somogye currently holds a seat on the Planning Commission for the City of Kalama, Washington.

#### **REGISTRATION AND CERTIFICATION**

WABO - Special Inspection Field Supervisor  
ICC Special Inspection Certifications for Reinforced Concrete and Proprietary Anchors  
ACI level 1, field grade 1 Concrete Field Testing  
WAQTC/ODOT – Certified Density Technician (CDT)  
WAQTC/ODOT – Quality Control Technician (QCT)  
Humbolt Scientific – Nuclear Gauge Training Certification  
NICET Level 1 in Geotechnical Engineering Technology/Generalist  
NICET Level 1 in Geotechnical Engineering Technology/Construction  
NICET Level 1 in Geotechnical Engineering Technology/Exploratory  
NICET Level 1 in Geotechnical Engineering Technology/Laboratory  
Excavation and Confined Space Safety (Competent Person Training)

#### **EDUCATION**

Bachelor of Science, Anthropology, Webster University, 2001  
Bachelor of Arts, Sociology, Webster University, 2001  
Archaeological/Geological Field School, Arkansas State University, 2000  
General Law, St. Louis Police Academy, 1997

#### **REPRESENTATIVE PROJECT EXPERIENCE**

Mr. Somogye's project experience ranges from large single and multi-family residential developments to multi-phased commercial, industrial and urban development projects. Mr. Somogye has recently completed a large scale construction monitoring project at the Port of Kalama, Washington. Mr. Somogye is currently overseeing quality compliance for several Oregon Department of Transportation and PacificCorp projects. His specific duties and responsibilities for Columbia West include field reconnaissance and construction monitoring, assistance with geotechnical site investigations, laboratory testing, client correspondence, and project scheduling. Mr. Somogye's career experience includes sub-surface site investigations, soil boring and test pit logging, steel reinforcing and proprietary anchor inspections, concrete compressive and deflection strength testing, masonry inspections, geotechnical and geologic reconnaissance, soil infiltration testing, foundation and road subgrade assessments, pier inspections, floor flatness, and pull/load-testing.