

Statement of Qualifications | City of Olympia

West Bay Restoration & Park Master Plan

April 24, 2017



J.A. Brennan Associates, PLLC

landscape architects | planners

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April 24, 2017

Laura Keehan, Planning and Design Manager
Olympia Parks, Arts and Recreation Department
601 Fourth Avenue E
Olympia, WA 98501

Re: West Bay Restoration & Park Master Plan Statement of Qualifications

Dear Laura:

The J.A. Brennan team understands that the City of Olympia West Bay Restoration and Park Master Plan is intended to develop a preferred waterfront park and habitat plan for the project area that is consistent with the City code and representative of input provided by the public and stakeholders. It will be important to create a master plan for the site that provides a positive and balanced connection of nature and community. We are excited to have an opportunity to build on our successful work at West Bay.

Multi-Discipline Team | To best serve the City of Olympia with the West Bay Restoration and Master Plan project, J.A. Brennan has assembled a team of professionals experienced in working in sensitive shoreline environments. Team expertise includes landscape architecture, public involvement, marine shoreline restoration, civil engineering, geotechnical services, cultural resources, permitting, and public art. Through our team's collective prior experience in Olympia and West Bay, we have a baseline understanding of the local conditions, community needs and interests, City requirements and stakeholder considerations that will be needed to conduct the master planning effort that balances public recreation with ecosystem restoration.

Multi-Discipline Leadership | J.A. Brennan will be the prime consultant with Jim Brennan the project lead and planning/recreational lead. Shane Phillips of Mott MacDonald will lead the engineering assessment and planning level design and nearshore processes. Paul Schlenger of Confluence will lead the habitat assessments, fisheries and shellfish biology, and regulatory agency coordination and permit approval requirements. Robert W. Droll will provide a unique local presence and extensive history with City of Olympia Parks and reputation with local stakeholders. Artist and planner, Carolyn Law, will provide her expertise in public art planning. Amber Early will provide cultural resources assessment. Davido Consulting will provide civil engineering, and Laudau Associates Geotechnical services

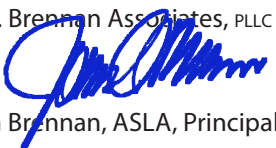
Marine Shoreline Restoration, Waterfront & Trail Experience | Our team members have worked together in a similar collaborative manner on the recent projects. J.A. Brennan, Mott MacDonald and Confluence worked on the City of Kenmore Squires Landing project which had a similar scope of services for waterfront park master planning and ecosystem restoration which incorporated a stakeholder and public involvement for selection of a preferred park development concept.

Environmental Projects Approach | The J.A. Brennan team is comprised of people dedicated to the health and restoration of our environment for the benefit of people and ecosystems. We are particularly excited about projects in which we can exercise our commitment to improving landscapes and ecosystems unique to the Northwest.

Thank you for reviewing our submittal and considering us for your project. The J.A. Brennan team is eager to help the Olympia to continue to improve the dramatic West Bay shoreline through restoration and a park master plan.

Sincerely,

J.A. Brennan Associates, PLLC



Jim Brennan, ASLA, Principal



Olympia's West Bay park, restoration and trail connection has been decades in the making. It's time to make this ambitious project a reality. The master plan for park and restoration is our opportunity to make sure we do it right.

Our team of experts have worked together for years on similar projects. Our inclusive design process will restore habitat function to a disturbed urban waterfront, while connecting locals and visitors to a network of trails, parks, and public art. It will be essential to create a master plan built on consensus and balance access with the ecological value of Budd Inlet.

Key elements of the master planning include:

- **Restore Ecological Processes & Habitat Function** | Enhance and expand intertidal and estuarine habitat along the project site area to aid in the recovery of Chinook Salmon and Olympia Oysters.
- **Provide Public Access & Recreation Improvement** | Develop a waterfront park and trail system to incorporate a non-motorized corridor that connects to Capitol Lake to West Bay Park and future extensions. Preserve natural shoreline aesthetics compatible with restoration objectives. Provide passive recreation opportunities, and provide physical public access to the bay shoreline.
- **Restore and Enhance Nearshore Habitat** | Restore nearshore processes utilizing a science-based restoration approach through evaluation of physical processes and biological processes to repair impacts from historical developments which will result in improvements to nearshore and pocket estuary habitat.
- **Provide Self-Sustaining Design** | Develop park development and restoration schemes that emphasize long term sustainability to minimize maintenance, be adaptable to climate change and sea level rise and be compatible with future Deschutes Estuary restoration actions.
- **Improve Water Quality (WQ)** | Incorporate improvements for WQ where feasible that could include improvements such as tidal circulation and lagoon flushing a pocket estuary, storm water treatment of upland surface water runoff, contaminated sediment and soil remediation, removal of creosote treated timber trestle, and restoration of Olympia Oyster shellfish.
- **Cultural Resources Preservation** | Develop design concepts to preserve, enhance, and educate visitors about cultural resources of the area including tribal culture and history, and Olympia waterfront history.

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- **Public Art Integration** | Art enriches, educates and informs visitors and communities while creating landmarks and experiences that resonate.
- **Public & Stakeholder Outreach** | Support the City in developing an outreach strategy to inform and involve the public throughout the project. Involve/consult with key stakeholders through meaningful and timely opportunities during the execution of the plan to develop support for the final preferred plan. Collaboration will provide the foundation for initiating future implementation phase of the project.

Expertise needed | This project will require special expertise in creative, scientifically sound shoreline restoration with recreation interwoven recreation. Our proposed team includes:

- J.A. Brennan - *landscape architecture, restoration and recreation planning and design*
- Mott MacDonald (MM) – *coastal engineering*
- Confluence – *environmental planning and restoration*
- RW Droll (RWD) – *local expert for permitting & public process*
- Carolyn Law – *public art planning*
- SWCA Environmental (SWCA) - *cultural resources*
- Davido Consulting Group (DCG) – *civil engineering*
- Landau Associates – *geotech & contaminated soils remediation*

This team of talented specialists frequently work together on public waterfront park and environmental restoration projects from master planning through final construction and groundbreaking for public use.

Company Background

J.A. Brennan Associates

provides landscape architecture and planning services to public and private clients. Originally formed as Lee & Associates in 1975, Jim Brennan assumed ownership of the firm as J.A. Brennan in 1998.

As Principal, Jim leads a team of six landscape architects, designers, planners, and graphic communication experts as they provide professional services in master planning, habitat restoration, recreation programming, public meeting facilitation, schematic design, and construction documents.

The firm specializes in designing waterfront parks and recreation facilities that include urban amenities, habitat restoration, trails and arts and cultural elements.

Our focus is finding creative solutions for people to interact with nature while protecting sensitive environments. Maximizing natural ecosystems and aquatic systems in areas keeps the firm on the cutting edge of research throughout master planning design and implementation.

A certified small business and a professional limited liability company, our efficient organizational structure provides our clients with high quality design service.

Firm Leadership |

- Jim Brennan, RLA, Principal, Owner
- Tanja Wilcox, RLA, Senior Associate, Landscape Architect
- Drew Coombs, RLA, Associate, Landscape Architect

Firm Philosophy

Create beautiful and functional environments that steward natural and cultural resources while connecting communities. Collaborate with clients, stakeholders, architects, engineers, and scientists to develop creative and scientifically sound solutions that express the community's vision and produce truly sustainable solutions.

Project Approach

Our team members are experts at integrating restoration and recreation in projects. Team members have worked together on numerous similar projects both in Olympia and other Puget Sound locations. We use creativity to conceive unique design solutions that achieves compatible and complementary habitat restoration and park and recreation uses. The team leads include experts with a depth of knowledge about the site:

- Jim Brennan project lead in restoration and recreation design
- Tanja Wilcox project landscape architect
- Shane Phillips of Mott MacDonald lead for the engineering of nearshore processes
- Paul Schlenger of Confluence lead for habitat assessment, fisheries and shellfish biology, regulatory agency coordination and permit approval requirements

Through our collective prior experience with Olympia's and West Bay project, we have an excellent baseline understanding of local conditions, community needs and interests, City requirements and stakeholder considerations that will be essential to conducting a master planning effort that balances public recreation with ecosystem restoration.

The process will incorporate community input, including input from the Squaxin Island Tribe, Port of Olympia and other key stakeholders. The master plan will integrate waterfront ecology, site history, Parks Strategic Plan and existing plans and studies. We will facilitate discussions with the community and key stakeholders through the public process.

The following project approach discussion builds from the City's proposed scope while integrating process insights base on our past experience.

Tasks and schedule | At the outset we will work closely with you to establish a task plan and project schedule that meets the anticipated timing. We will identify tasks and critical milestones for the plan that provides a framework for products, important meetings, and review periods. Each task concludes with a deliverable for review and approval.

Site inventory and analysis | A thorough inventory and analysis of the existing site conditions is critical in developing systems plans for both natural and cultural elements. From this analysis a site suitability map is developed which ensures a fit between recreational program elements and opportunities for restoration and the site.

Existing conditions, opportunities and constraints | Review of the site analysis, opportunities and constraints, will include sea level rise and implications for the site's design. We will focus on stormwater mitigation; vehicular, pedestrian and bicycle circulation within the site and connections to the neighborhood and to the larger waterfront trail; and protection and enhancement of environmental, cultural and scenic resources. We will address the anticipated permits and processes required for implementation for natural resources and a thorough archaeological/cultural resources survey.

Cultural resources | SWCA will research the archaeological sensitivity of the project area and assess the risk for encountering buried cultural resources. This research will include checking State records and coordinating with local Tribes to gather traditional information about the project area. Recommendations will be provided for ways to comply with local, state, and federal cultural resources regulations throughout the park development.

Geotechnical soil and sediment quality characterization | Landau will review the Environmental Restoration Assessment report, and information about the soil, sediment, and groundwater characteristics in the project area. Their conclusions will be integrated into the conceptual designs throughout the master plan. A more detail analysis can take place as the design progresses.

Contaminant assessment | Based on our previous experience with the West Bay Restoration project (2016), it will be important to initiate a strategy on contaminated sediments early in the planning process. We would suggest a two-step approach. First is a comprehensive review of existing information to assist in formulating an estimate of any cleanup work and associated cost

required for park development work. Once a preferred alternative is selected through the public outreach process, a more detailed second step of data collection could be initiated to focus on the specific proposed work.

Programming

The pattern of recreational facility development must also be planned for compatibility of uses, and for compatibility with shoreline restoration goals. Our expertise lies in working with the client to develop a design program for recreational facilities, public art and landscape development, this includes expertise in linking appropriate activities to sensitive site environments. We will work with stakeholders to link program elements to the most suitable location on the site.

Public Art Integration | Carolyn Law will lead the art programming effort. Amazing art occurs when the design professionals and the community are allowed to collaborate and work in partnership with the built and natural environments. Public art is designed to appeal to a wide audience. It is an effective educational tool that is unique to its site, and expresses its range of nature and culture.

Recreational facilities | Recreation facilities are designed to provide visitors a richness of experience. Aligned trails and walks lead the visitor through a variety of experiences highlighting the diverse and unique aspects of the site while building linkages to the surrounding community and adjacent open space amenities. Site history, waterfront ecology and art inform visitors. Resting spots as well as viewpoints for photography and birding will be provided. To take advantage of particular views and provide interpretive information about natural systems, viewpoints will be combined with signage and/or educational displays.

Preliminary master plan

Our team has worked with the City in previous planning and design work but this process will bring in a fresh perspective that integrates other uses, activities and elements to ensure a meaningful process.

Analysis, goals, theme | Using site analysis and past work as a guide we will develop goals, themes, and a draft program. These goals and themes will be vetted with stakeholders and guide decisions in the master planning process.

In our earlier stage of work, we developed many alternatives for trail and habitat restoration options. In this

master plan effort we envision using those alternatives and exploring further with the community and stakeholder elements such as restoration concepts, recreation and art to create a new, refined suite of alternatives. Once we have developed a revised range of alternatives we will provide decision-makers with advantages and disadvantage to assist you in screening alternatives to move toward a preferred plan. This will include a science-based analysis of restoration benefits for each alternative building on the work we completed in the earlier stage.

Description of the shoreline restoration and park development alternatives will be developed, in addition to rationale for each alternative including environmental restoration benefits. The preferred alternative will include justification for the selection including a discussion of environmental benefits and synergies with recreation opportunities.

Analysis of West Bay trail options | Trail analysis will build off the West Bay Environmental Restoration Assessment and include alternative locations and design options, such as using the existing railroad berm/trestle and options for removal of the berm/trestle. This will also include discussion and concepts for the potential restoration of Garfield Creek pocket estuary.

A site plan will be developed that clearly defines all shoreline restoration components and features, future uses, structures, ADA accessibility, traffic patterns, services, access, parking, emergency access, utilities, architectural themes, setbacks, view corridors, site furnishings, opportunities for public art, heights and elevation drawings of key features and structures, cross sections of key shoreline restoration components.

Safety | The safe enjoyment of the park will be enhanced by providing consistent park maintenance and police access. Consideration for Crime Prevention through Environmental Design (CPTED) will be integrated into the planning process.

Draft master plan

Develop draft master plan | This includes a plan document narrative, maps, trail descriptions, cost, trail standards, maintenance, best practices, and implementation matrix. We will synthesize community input, and take the best from each alternative. After completion of the draft plan and cost estimate, we will present it to the City, Tribes, and City Council for comment.

Draft phasing and implementation program | Master planning is a long term process that goes beyond collecting public input and combining exciting program elements into a design that responds to the context of the site. It includes thoughtful development of phasing and implementation strategies. The general implementation strategy/phasing program for the preferred elements and restoration strategy will identify priorities for improvements and a general timeline for implementation.

Draft cost estimate | We develop accurate cost estimates that break the overall costs into manageable pieces and provide decision makers with the information they need to focus implementation resources from flexible grant opportunities, district bonds and funding trends. A planning level cost estimate may be prepared for each of the alternative concepts to assist in comparing and contrasting these options.

Permit support (ongoing/as needed)

The J.A. Brennan team has worked together seamlessly to permit park design and environmental mitigation projects throughout Washington. It is critical to identify, early in the planning process, the regulatory constraints that would affect implementation. Key to our successful approach is communication with affected agencies. We are experienced in working with JARPA, NEPA, SEPA, ESA, CWA, SMA, and other review and approval processes as implemented by federal, state, and local agencies.

Public Involvement

Develop and implement public engagement program | We will begin by creating a public involvement plan and identify ways to engage the City, its partners, Squaxin Island Tribe, and the public in a collaborative planning process.

As the local expert, RWD will assist the team in unveiling an artful and science based master plan through a community driven process that complies with Olympia's social justice and sustainable community policies. RWD will work with the J.A. Brennan Team in finding the master plan balance between the demanding needs of the human program and the ecological needs of West Bay's complex estuary environment.

The process will include visioning and reviewing alternatives; description of the community's vision and priorities for the site; preparation of public presentation materials, drawings, graphic renderings, reports and other required information. The final plan will include a summary of public engagement process and feedback.

Project Approach continued

Final master plan

Our collaborative planning process will conclude with a final document that includes prioritization of discipline-specific tasks required to support the final master plan. The final master plan will utilize the City of Olympia Design Standards, Drainage Manual, and other requirements. It will include the following elements:

- Review of the site analysis, opportunities and constraints
- Summary of public engagement process and feedback
- Description of the community and stakeholder's vision and priorities for the site
- Detailed analysis of West Bay Trail options
- Discussion and concepts for the potential restoration of Garfield Creek pocket estuary
- Description of the shoreline restoration and park development alternatives developed and rationale for alternatives including environmental restoration benefits
- Archaeological/Cultural resources survey
- Preferred alternative and justification for the selection

- including a discussion of environmental benefits and synergies with recreation opportunities
- Cost estimates, including development and annual operations and maintenance
- Anticipated permits and processes required for implementation
- Phased implementation plan
- A site plan that clearly defines all shoreline, stream and restoration components, future uses, structures, ADA accessibility, traffic patterns, services, access, parking, emergency access, utilities, architectural themes, setbacks, view corridors, site furnishings, opportunities for public art, heights and elevation drawings of key features and structures, and cross sections of key shoreline restoration components
- Public presentation materials, drawings, graphic renderings, reports and other required information

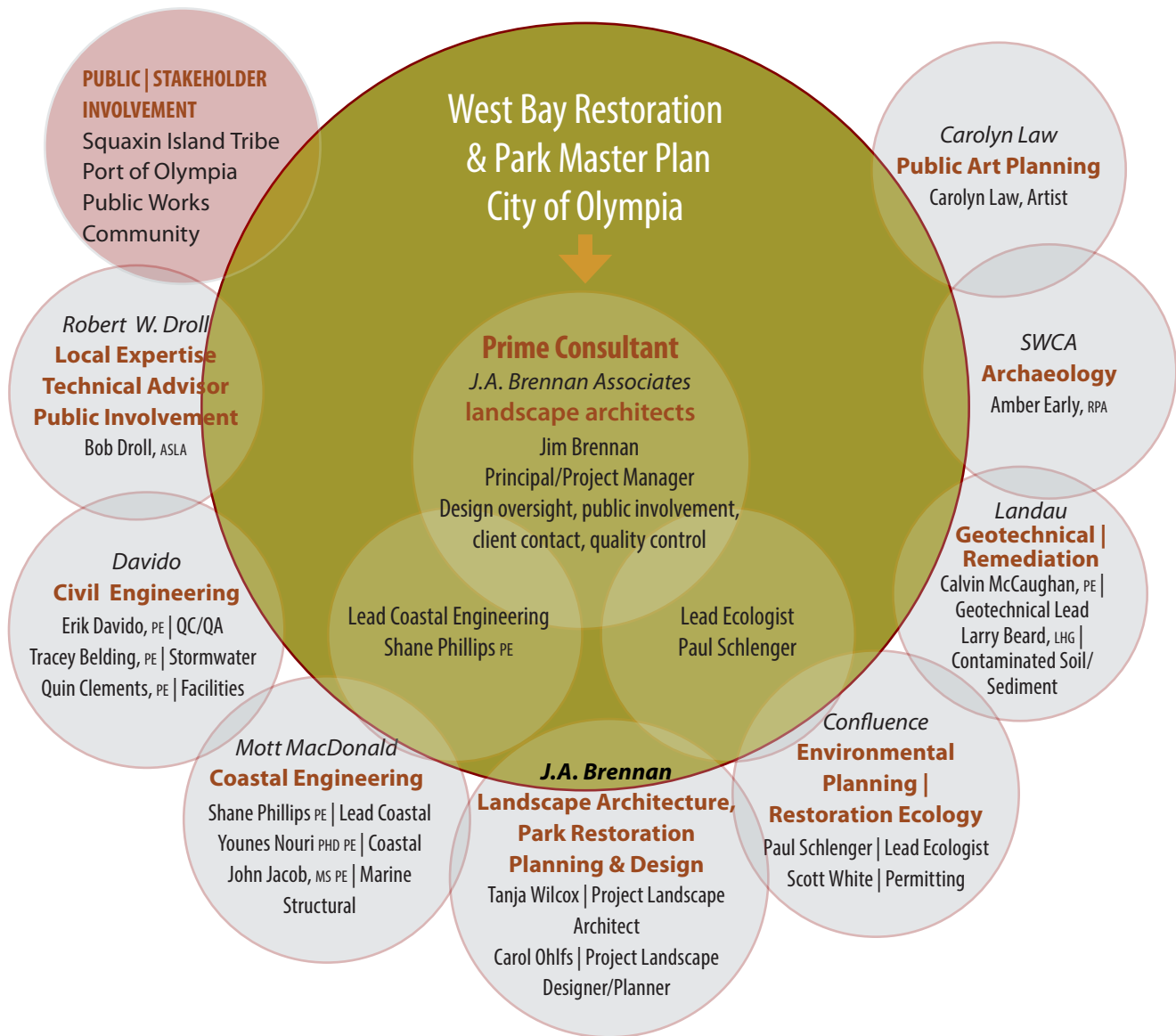
The final master plan will reflect the consensus-building and project enthusiasm developed throughout the design process.

Proposed Schedule

In order to have products available for the RCO Grant process, we are showing an accelerated schedule to implement if desired.

	2017								2018								2019							
Task	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	Q1	Q2	Q3	Q4
Master Plan																								
Project Initiation	●																							
Site Analysis		→	→	→		→		→																
Public Engagement Program (Plan)	→																							
Program definition			→	→																				
Alternatives					→	→																		
Preliminary Master Plan								→	→	→														
Cost Estimates						→			→	→														
Permitting support									→															
Phasing										→	→													
Final Master Plan										→	→	→	→	→	→	→								
Public Involvement			*			*				*						*								
Stakeholder Mtgs			●			●				●						●								
RCO Review													→	→	→	→								
RCO Funding Available																								\$

Project Team Organization Chart



Right Team for the Work

The J.A. Brennan team has worked on similar projects in Olympia West Bay and other Puget Sound area locations. Our discipline leads have worked with the City, Tribe and many of the other local stakeholders through previous City and non-City projects.

MM has worked on seven near-shore and estuarine projects in Budd Inlet in the past 10 years with four of those located in public parks. Paul Schlenger and Shane Phillips' knowledge of the biological and physical processes will allow us to work with the City and Tribe on creative, func-

tional and economical restoration schemes that meet the habitat and water quality objectives for West Bay.

The knowledge of Jim Brennan, Tanja Wilcox and Bob Droll in restoration design, park planning, stakeholder/public involvement and local park and trail plans and standards will provide the ability to help integrate recreational opportunities into near-shore and water quality restoration schemes.

Our baseline understanding of local conditions, community needs and interests, City requirements and

stakeholder considerations will be needed to conduct a master planning effort that balances public recreation with ecosystem restoration.

Team members have worked in a similar collaborative manner on the recent City of Kenmore Squires Landing project that had a similar scope of services for waterfront park master planning and ecosystem restoration. It incorporated a stakeholder and public involvement for selection of a preferred park development concept.

Project Team Qualifications

J.A. Brennan Associates, pllc | *prime, landscape architecture master planning & design* | Our full-service experience includes: preparing park master plans for diverse user groups, recreational programming, and shoreline restoration. Public involvement is central to all of our work.

In the planning process, J.A. Brennan considers community context, proposed recreational uses, intensity of use, access points, water quality, fish and wildlife habitat considerations, and regulatory constraints. By considering needs and aesthetics, we design successful spaces for recreation and reflection, enjoyment, gathering, and access. Our goal oriented master planning process:

- Results in appropriate park uses / programming
- Captures the vision of the community and stakeholders
- Strives to connect the community to surrounding areas and nature
- Balances access with development and preservation
- Considers implementation costs early on

When working in the shoreline environment, our philosophy is to let science guide the process. We collaborate with scientists to understand habitat issues for target species, sediment transport, cultural resources, historic contamination, shoreline planting, appropriate human and wildlife interactions, and impacts to aquatic species due to beach modification.

Restoration Design | J.A. Brennan has a depth of experience in restoration planning and design:

- Intertidal estuary projects, marsh, upland buffer design, stream daylighting
- Habitat design for target species, resulting in maximum habitat benefits
- In-depth understanding of life cycle issues, such as erosion and sedimentation.
- Understanding of permitting requirements and procedures
- Expertise in grading and native plant design
- Previous experience in design and construction of award winning habitat restoration projects
- Working with multi-faceted stakeholder groups

Trail Design | J.A. Brennan's trail system designs appeal to diverse user experiences while building linkages to the surrounding community and protecting sensitive areas. An attractive trail system offers viewing, seating and resting areas at reasonable interludes and within the most interesting settings. We approach trail design with the goal of providing accessibility to people of all abilities. We are skilled at designing

trails are safe, comfortable and accessible, with good surfacing and drainage accommodations.

Urban Design of People Places | Dedicated to creating dynamic urban spaces, we design places where people gather to enjoy community and the lively urban setting. We believe in connecting people to place and that aesthetic improvements relate to quality of life. We create places that give the public access to experiences and generate social involvement. By considering community needs and aesthetics, we design successful spaces for gathering, reflection, enjoyment, pedestrian and bicycle access, and public access.

Mott MacDonald (MM) | *coastal engineering* | MM recently acquired Coast & Harbor Engineering and offers services in planning, modeling, analysis, design, and construction management for development of waterfront parks, restoration of pocket estuaries, stabilization of shorelines, and removal of contaminated sediments from marine environments. Key team member, Shane Phillips, was the project director on the West Bay Environmental Restoration Assessment completed by Coast & Harbor in 2016.

MM has technical specialization in engineering consulting related to analysis of physical processes and design of waterfront parks and nearshore restoration projects related to the disciplines of coastal, marine structural, civil engineering. MM engineers perform feasibility studies, numerical modeling of coastal, geomorphologic, littoral, and hydrodynamic processes, and all phases of engineering design, permitting assistance, and construction management for park, waterfront facility, and recreational facility projects. MM is widely recognized for its technical excellence in applying scientific analysis to evaluate shoreline conditions and design cost-efficient and permissible actions.

MM expertise relevant to this contract includes:

- Waterfront parks
- Estuarine and Nearshore Restoration Analysis/ Design Pier and boardwalk design
- Bulkheads, revetments, retaining walls, and groins
- Recreational beaches
- Hydrodynamic Analysis (Wave, Current, Sediment Transport)
- Dredging and dredged material disposal Project planning
- Alternatives evaluation
- Plans, specifications, cost estimates
- Construction administration

Project Team Qualifications

Confluence Environmental Company | *environmental planning and restoration* | Confluence specializes in natural resources services; environmental project delivery; mitigation/restoration; and regulatory strategy, compliance, and permitting. The firm's staff of 18 includes fish and wetland scientists, regulatory experts, cultural resources specialists, built and natural environment planners, and coastal and restoration engineers.

Confluence has been integrally involved in planning and permitting complex shoreline restoration projects throughout the Puget Sound region. This includes project delivery from master planning, alternatives analysis, stakeholder and community outreach, engineering design, permitting through to construction. Confluence's shoreline park restoration projects target a successful balance between improving ecological conditions and public use. These include West Bay Park Phase I, Seahurst Park, Olympic Sculpture Park, Saltwater State Park, Howarth Park, and Heritage Park. Confluence led the ecological analysis and provided ecological input to the design of these shoreline restoration projects.

Key team members are very familiar with the ecology of lower Budd Inlet and the Deschutes River, through past work on West Bay Park, as well as salmon recovery planning for the entire watershed.

Robert W. Droll, Landscape Architect, PS | *local expertise* | RWD's breadth of experience ranges from park and recreation comprehensive planning to large scale, multi-use parks to urban plaza design, trails and low impact site design. As a local Olympia area based Landscape Architect, RWD has been fortunate to be involved with a wide range of park and recreation projects. The firm brings project experience with Waterfront, Trail Master Planning and Design, Neighborhood and Community Parks with a range of services from park master planning to detail design and construction administration.

From providing a sounding board from a local professional Landscape Architect's perspective, to preparing a Maintenance Management Cost & Program for the preferred West Bay Park Master Plan, RWD will serve a limited, but important role in West Bay Master Plan's success.

Carolyn Law | *public art planning* | Carolyn is a studio and public artist with diverse experience that encompasses a wide range of commissioned art and design projects in public places. All of her artwork has either helped make the entire site a focal point of a particular project location or have included iconic urban design components that become focal points in and of themselves within the site.

Carolyn's work portrays responsive sense of scale, ef-

fective choice of appropriate materials, and innovative fabrication methods. Her work is derived entirely from the site character, uses, and community in which it resides. Her projects often require working with architects, landscape architects, urban planners, engineers, and environmental specialists, as well as diverse agencies, community groups and individuals related to the site.

SWCA Environmental Consultants | *cultural resources*

SWCA is focused on cultural and natural resources management, environmental planning, regulatory compliance, and sustainability services. Their professionals combines scientific expertise with in-depth knowledge of permitting and compliance protocols.

SWCA's Seattle staff have provided cultural resources services for over 40 park and trail projects in Washington State in the last 5 years alone. Many of these parks are located along saltwater and riverine shorelines in the Puget Sound region. The Seattle office was acquired in 2011, and was previously known as Northwest Archaeological Associates (NWAA). Staff currently with SWCA have performed numerous cultural resources projects in assistance to the City of Olympia, including the previous study for West Bay Park, Percival Landing Major Rehabilitation Study, Priest Point Park, Grass Lake Neighborhood Park and Grass Lake Refuge Project, and others.

David Consulting Group (DCG) | *civil engineering*

Regional experts in civil engineering, DCG has significant experience in the design of permeable pavement, parking lots, trailheads, boardwalks, sewer and stormwater conveyance and treatment, stormwater management, grading, drainage systems, utilities, low impact design and recreational amenities. The DCG team is Puget Sound based and is well versed in local regulations and codes.

DCG staff have worked on over 25 outdoor recreation sites from master planning through design and construction throughout the region and beyond. DCG has the experience to collaborate on projects from feasibility and options analysis phase through design, construction oversight, and project completion.

Landau Associates | *geotechnical services* | Landau provides geotechnical engineering, environmental site management and engineering, and permitting and compliance services. The firm provides services for master planning, site development, infrastructure development and improvement, environmental and natural resources mitigation, and contaminated sites remediation projects. Landau can provide design recommendations related to earthwork and ground improvement, foundation support, slope stability, retaining walls, bridges, pavement design, stormwater infiltration, and drainage.

Relevant Project Experience

Project and Public Agency	Public Involvement	Recreation & Restoration	Firms	Shoreline Type / Sensitive Area	Tribal Coord.	Public Art
West Bay Shoreline Habitat Restoration Assessment <i>City of Olympia, Port of Olympia</i>	●	Trails, shoreline, habitat, stormwater	Prime: Mott MacDonald, Subs: J.A. Brennan, Davido	<i>Marine</i> Puget Sound	■	
Mukilteo Waterfront Master Plan & Phase I <i>City of Mukilteo</i>	●	Contaminated soils, downtown, creeks into marine, public art	Prime: J.A. Brennan, Subs: Confluence, Mott MacDonald	<i>Marine</i> Puget Sound, Japanese Gulch Creek	■	⌘
Squires Landing Waterfront Improvements <i>City of Kenmore</i>	●	Trails, art, plaza, shoreline restoration, interpretive, contaminated soils	Prime: Mott MacDonald, Sub: J.A. Brennan, Confluence	<i>River</i> Sammamish River	■	⌘
Bridge Park & Seawalk Master Plan <i>City and Borough of Juneau</i>	●	Shoreline restoration, overwater trail, park, plaza	J.A. Brennan & Mott MacDonald	<i>Marine</i> Gastineau Channel & Gold Creek		⌘
Chinese Reconciliation Park Master Plan & Ph. 1, 2, & 3 <i>City of Tacoma</i>	●	Trails, art, plaza, shoreline restoration, interpretive, contaminated soils	J.A. Brennan	<i>Marine</i> Commencement Bay, Puget Sound	■	⌘
Elliott Bay Seawall Replacement Project <i>Seattle Department of Transportation</i>	●	Natural beach design, shoreline restoration, public access	J.A. Brennan as subconsultant, Paul Schlenger (now with Confluence)	<i>Marine</i> Elliott Bay Puget Sound		⌘
Herring's House Park Master Plan & Implementation <i>City of Seattle</i>	●	Restoration, trails, picnic, contaminated soils	J.A. Brennan	<i>Marine</i> Duwamish Estuary, Puget Sound	■	
Cornet Bay Shoreline Restoration <i>Washington State Parks & Recreation Commission</i>	●	Beach restoration, plaza, restroom, picnic, trails	J.A. Brennan as subconsultant	<i>Marine</i> Cornet Bay Deception Pass, Puget Sound		
Taylor Dock & Upland Park Master Plan & Implement <i>City of Bellingham Waterfront Center Honor Award</i>	●	Public access, overwater trail, dock, plaza, contaminated soils	J.A. Brennan as prime & subconsultant	<i>Marine</i> Bellingham Bay Puget Sound	■	⌘
Beebe Springs Natural Area Master Plan & Implementation <i>Washington Dept. of Fish & Wildlife</i>	●	Trails, bridges, benches, picnic, stream and shoreline restoration	J.A. Brennan	<i>Lake/River</i> Columbia River Lake Entiat	■	⌘
Juanita Beach Park Master Plan & Phase 1 <i>City of Kirkland</i>	●	Promenade, plaza, picnic, hand-carry boat, stream & wetland restoration	J.A. Brennan	<i>Lake/Stream</i> Lake Washington, Juanita Creek	■	⌘
Don Morse Park Shoreline Restoration Design <i>City of Chelan</i>	●	Esplanade, picnic, boat launch, river & beach restoration, public art	Prime: J.A. Brennan sub: Mott MacDonald	<i>Lake</i> Lake Chelan	■	⌘
Yauger Park Regional Stormwater Facility <i>City of Olympia</i>	●	Restoration, trail, picnic, boardwalk	Prime: DCG Sub: J.A. Brennan	<i>Bioretention</i> Pond, Wetland fringe		
Entiat Park Revitalization <i>PUD No.1 of Chelan County</i>	●	Camping, boat launch, picnic, shoreline restoration	J.A. Brennan	<i>Lake/River</i> Columbia River, Lake Entiat	■	⌘

References

Squires Landing Waterfront Improvements
Deborah Bent, Community Development Director | City of Kenmore WA
 425.398.8900 |
 dbent@kenmorewa.gov

Mukilteo Waterfront Master Plan & Phase I
Patricia Love | Assistant Director | City of Mukilteo Community Development
 425. 263.8041
 ploved@ci.mukilteo.wa.us

Bridge Park & Downtown Seawalk, Juneau
Skye Stekoll | Project Manager | City/Borough of Juneau Engineering Dept |
 907.586.0887
 Skye_Stekoll@ci.juneau.ak.us

Relevant Projects

West Bay Environmental Restoration Assessment | City of Olympia | Port of Olympia | Olympia, WA

Prioritization of shoreline restoration projects by the City of Olympia, Port of Olympia, and Squaxin Island Tribe was guided by shoreline restoration and water quality strategies developed in the assessment. Mott MacDonald was prime on the multidisciplinary team that included J.A. Brennan and DCG. The team developed a science-based assessment of environmental restoration opportunities for the West Bay shoreline.

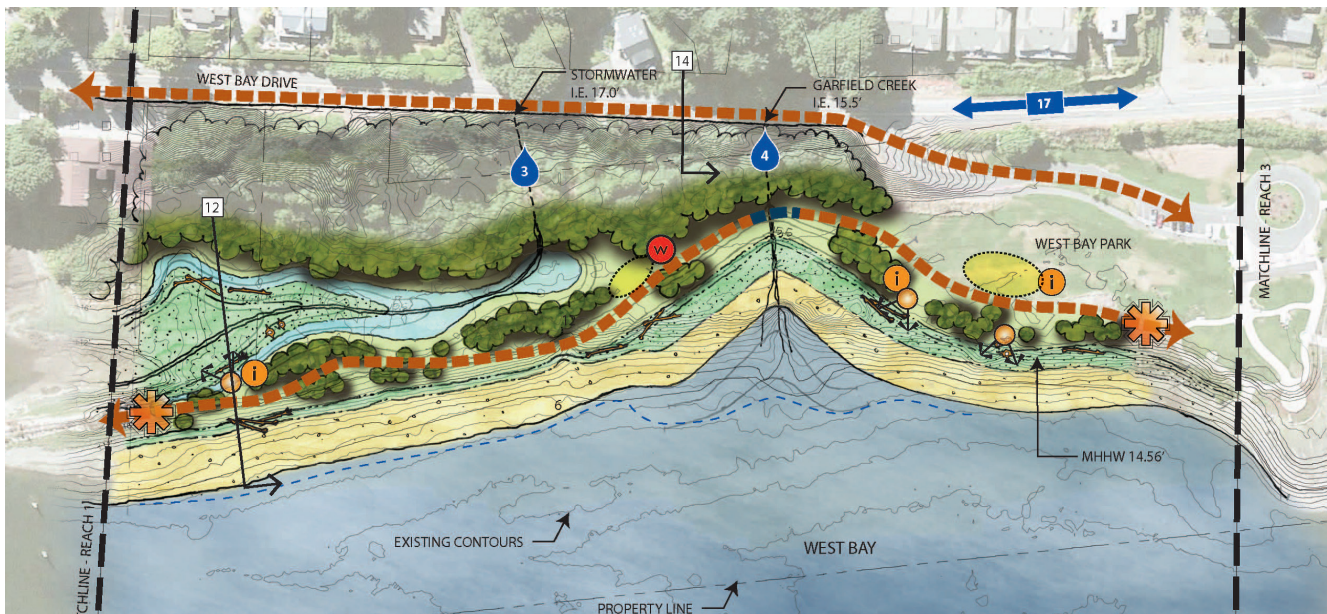
Data Collection/Criteria Development | Relevant data was compiled from multiple sources, identified data gaps, gathered targeted new data, developed a base map and database, and evaluated criteria.

Shoreline Restoration Assessment | Documented historical/existing project area use, functions, and coastal processes. Identified, prioritized, summarized, and analyzed preferred and high-ranking restoration opportunities in a comprehensive assessment and

implementation plan. Potential restoration sites were ranked by ecological benefits, restore specific habitat species, costs, and mitigation credit.

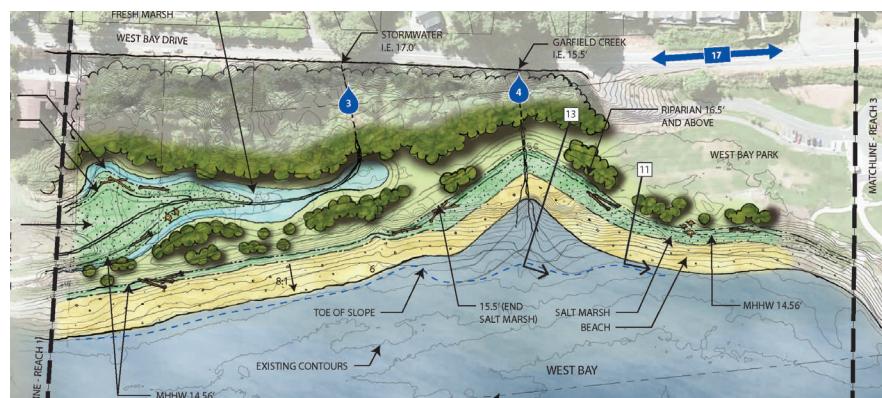
Conceptual Stormwater Analysis | Identified potential opportunities to enhance restoration through stormwater improvements at identified restoration sites:

Lagoon Area Alternatives Analysis | Evaluated ecological and physical processes for four lagoon area alternatives to support the Draft West Bay Park Master Planning effort. Two alternatives were provided by the City and two were developed by Mott MacDonald from existing conceptual layouts provided by the City. In coordination with stakeholders, the team further defined the alternatives to level acceptable for analysis and numerical modeling. Results of analysis and modeling were from a comparison of ecological benefits and associated cost for selection of preferred alternative by stakeholders.



Recreational concept

Illustrative plans and sections helped the interdisciplinary scientific team quantify restoration impacts of the designs and communicate with the public



Restoration Concept

Squire's Landing Waterfront Improvements | City of Kenmore | Kenmore, WA

Squires Landing Park features over 3080 lineal feet of shoreline access to the Sammamish River and Swamp Creek and access to 41.5 acres of undeveloped open space.

Mott MacDonald as prime, with J.A. Brennan and Confluence, is developing waterfront improvements to enhance the park for public use and the boating community. The team performed site reconnaissance, data collection, feasibility evaluation, master planning, conceptual design and a budgetary cost estimate.

The team identified feasible design elements, and developed conceptual park alternatives graphics to support the City's successful bond measure. Feasibility evaluation was completed for potential park improvements:

- Potential property acquisition including a boat basin
- New upland boat house with restroom
- New boat staging area
- New parking area
- New trails between parking area and boathouse
- New trails/boardwalk to Sammamish River
- New footbridges for crossing an existing lagoon and slough
- New floating docks within lagoon
- Associated environmental enhancement/mitigation

Studies were completed to develop two alternative conceptual design layouts for the improvements and provided conceptual-level graphic plans, details, sections, and cost.



Public involvement included a public meeting to present the conceptual alternatives and respond to questions. Conceptual alternatives as well as associated cost estimate were presented to the City Council members.

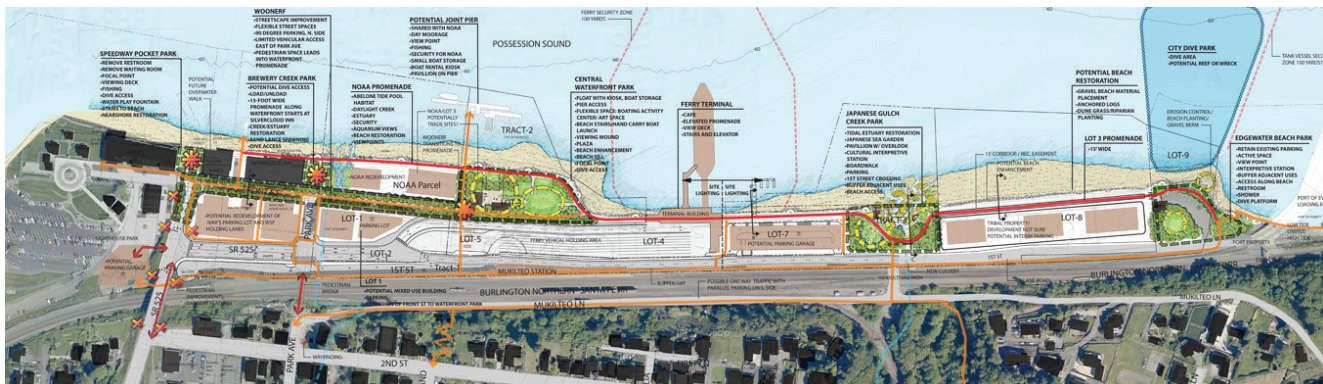
Mukilteo Downtown Waterfront Master Plan | City of Mukilteo | Mukilteo, WA

J.A. Brennan created a long-term strategy for development along Mukilteo's urban waterfront. The plan proposes new parks, trail connections, hand-carry boat launch, habitat enhancements for fish and wildlife, pedestrian amenities, and automobile circulation. J.A. Brennan worked closely with a citizen's advisory committee to develop a suitable public involvement process, which ensured that owner, stakeholder, and public concerns were all considered.

The master plan focuses on connecting people both physically and thematically to the intrinsic natural, cultural

and urban qualities that compose the past, present and future of the Mukilteo waterfront. It identifies 15 zones along the waterfront for design updates to improve environmental, recreation and economic connectivity.

Since the master plan was adopted by City Council in 2015, J.A. Brennan has begun the schematic 30% design phase. Beginning with the promenade character design guidelines and Japanese Gulch Creek Park restoration, J.A. Brennan is working with MM, Confluence and DCG on this project.



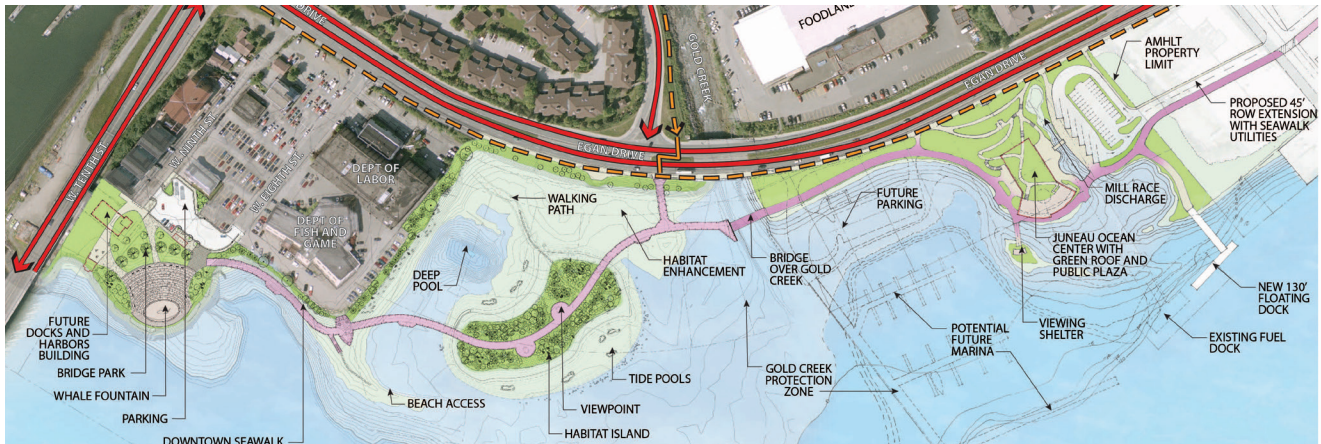
Relevant Projects

Bridge Park and Downtown Seawalk | City/Borough of Juneau (CBJ) | Juneau, AK

J.A. Brennan worked with the CBJ to develop a phased seawalk and parkland along Juneau's downtown waterfront. The park will provide another touchpoint to the water and offer green space to enjoy the views of Gastineau Channel. Park features include a small-scale active recreation zone, a fishing pier, picnic shelter suitable for rentals, gathering plaza, and the setting for a whale sculpture. Additionally, a seawalk connection will be built that will take park visitors over water to a created

habitat island to experience the channel in a new way. Our approach involved:

- Working with agencies and community stakeholder groups to narrow the program
- Analyzing the comprehensive waterfront plan to assess which activities could be better sited elsewhere
- Completing a transparent community process
- Working through CBJ commissions to gain approval for the approved plan.



Tacoma Chinese Reconciliation Park | City of Tacoma and the Tacoma Chinese Reconciliation Foundation | Tacoma, WA

This new park on Commencement Bay allows offers shoreline access, trails and habitat enhancement. J.A. Brennan helped orchestrate a collaborative and productive partnership between the City and Foundation as part of the master planning and design process.

Now visitors can explore the history of the Chinese community expulsion from Tacoma, and better understand the impact of the 1885 event. Art and interpretive elements are interwoven in the design to create a physical setting for

the telling of the story and the reconciliation process. Design development of the park includes the shoreline, which now consists of restored near-shore aquatic and terrestrial habitat. The addition of an intertidal marsh, a restored cobble beach and shoreline vegetation integrates the Chinese garden with its unique Pacific Northwest environment and reinforces the concept that classical Chinese garden design is founded on an appreciation of the natural landscape.



Appendix

- Key Team Member Resumes
- Equal Benefits Compliance Declaration
- Addendum Acknowledgement

James A. Brennan RLA | Principal Landscape Architect | J.A. Brennan | Project Role: Principal-In-Charge, Project Manager



Jim has served as principal and project manager for over 40 large-scale shoreline recreational developments and community parks. His specialty is in the development and enhancement of shorelines and waterfront landscapes for public enjoyment and education while respecting conservation objectives.

Marine Shorelines | Jim specializes in waterfront master planning and has a depth of experience in designs ranging from active to passive recreation facilities, trail systems, and the preservation and enhancement of sensitive natural areas. Enrichment of the waterfront for public enjoyment and enhancement of the shoreline for wildlife and habitat has been a focus in Jim's career, complemented by his personal interest in fishing, boating, and outdoor living in western Washington.

Public Involvement | Jim is an expert in working with client groups, the community, and tribes to develop recreation and restoration programs. Facilitation of public meetings and design charrettes, working with stakeholder groups, and resolving critical community issues are strengths that Jim brings to a project.

Programming, Planning & Design | Jim's programming skills include identification of site carrying capacity, an understanding of recreation and educational activities and their associated physical requirements.

Relevant Projects

West Bay Environmental Restoration | Olympia, WA | Jim was principal landscape architect, directing the design approach for recreation and restoration of the West Bay Marine Waterfront. He was responsible for leading the design charrette as part of the key public involvement process.

Bridge Park and Downtown Seawalk | Juneau, Alaska | Jim worked with the Juneau Engineering Department, to analyze conceptual options and to develop a final program based on the community goals, project criteria, and funding requirements.

Don Morse Park Shoreline Restoration | Chelan, WA | Principal-in-charge for the park's shoreline restoration and design of an enlarged marina at Chelan's signature waterfront park. The design restores the park's sandy swimming beach, improves habitat, and enhances park connections with a new esplanade.

Tacoma Chinese Reconciliation Park Project | Tacoma, WA | Principal-in-charge of planning, design, public involvement and construction documentation for a four-acre urban waterfront park which included habitat enhancement, a traditional Chinese garden, environmental public art, and interpretive features.

Juanita Beach Park Master Plan and Phase 1 | Kirkland, WA | Led park master plan development and implementation for rejuvenation of Juanita Beach Park. The project resulted in better connections to the surrounding community, improved water quality at the swimming beach, and enhanced stream habitat.

Education

Bachelor of Landscape Architecture,
University of Washington, Seattle, WA,
1983

Professional Licenses/Registration

Landscape Architect
State of Washington, 1986

Joined firm

1985

Relevant Expertise

Project Management
Master Planning
Public Involvement
Urban Marine Waterfront
Parks & Recreation Areas
Environmental Enhancement

Honors and Awards

Taylor Dock and Upland Park
*Washington Recreation and Park
Association Spotlight Facility & Park
Award, 2007* and the *Waterfront
Center's Honor Award, 2007*

Herring's House Park, *The
Waterfront Center's International
Top Honor Award, 2002*

Tanja Wilcox RLA | Senior Associate Landscape Architect | J.A. Brennan |

Project Role: Project Landscape Architect



Tanja has produced master plans and detail designs for numerous environmentally sensitive sites. Her projects include a range of parks, marine shorelines, gathering spaces, and recreation, and stormwater facilities. Her work utilizes a natural systems approach to determine imaginative and sensitive design solutions that combine public enjoyment and education with habitat conservation. She regularly facilitates stakeholder meetings with high quality figures, maps and sketches to clearly communicate design alternatives.

Environmental Enhancement | Evident in her professional and volunteer work, environmental awareness is of great importance to Tanja. She has produced master plans and detail designs for numerous environmentally sensitive sites. Her work utilizes a natural systems approach to determine imaginative and sensitive design solutions that combine public enjoyment and education with habitat conservation.

Education

BS Landscape Architecture, Cornell University, 1989
Danish International Studies Program, Architecture & Design Studies, University of Copenhagen, 1988

Professional Licenses/Registration

Landscape Architect, State of Washington, 2001

Joined Firm

1991

Relevant Expertise

Master Planning
Shoreline Park Planning & Design
Park Planning & Design
Environmental Enhancement
Public Involvement Facilitation

Honors and Awards

Washington Recreation and Park Association *Spotlight Facility & Park Award* 2007 and the Waterfront Center's *Honor Award*, 2007 for Taylor Dock and Upland Park

The Waterfront Center's *International Top Honor Award*, 2002, Herring's House Park

Marine Shorelines | Tanja has worked as a key team member on J.A. Brennan's shoreline projects. Her Puget Sound shoreline work includes Herring's House Park, West Bay Park, Taylor Avenue Dock and Elliott Bay Seawall.

Relevant Projects

West Bay Environmental Restoration | Olympia, WA | As project landscape architect, Tanja developed conceptual plans for shoreline habitat preservation and enhancement augmented with passive recreation and public education opportunities for an ecologically sensitive trail system that will connect to existing regional trails and restore shoreline and lagoon functionality.

Taylor Avenue Dock and Public Waterfront Park | Bellingham, WA | Tanja served as a key member of the design team retained by the City of Bellingham to design a pedestrian dock and community park on Bellingham's waterfront. Tanja developed conceptual plans and assisted in the design detailing of the park and dock amenities including dock gateway, pavilion, lighting, railings, upland plaza and waterfront promenade.

Elliott Bay Seawall Replacement Project | Seattle, WA | Tanja developed alternatives for the Seattle downtown waterfront's new shoreline edge that celebrate the uniqueness of the City of Seattle and its place on Elliott Bay. The design involved the creation of natural beach touch-points, salmon friendly shallow water habitat, and gathering places along the water's edge. She also contributed design concepts for seawall surface textures, and other aesthetic wall features.

Herring's House Park | Seattle, WA | Tanja was assistant project manager and lead landscape designer working with a multidisciplinary team to enhance this waterfront site. The project involved soil remediation, intertidal marsh creation, shoreline design, planting design, an educational trail, cultural resource protection, agency and tribal coordination, cost estimating, permitting assistance, and environmental planning.

Carol Ohlfs | Landscape Planner & Designer | J.A. Brennan |

Project Role: Landscape Designer & Planner



Education

MLA University of Oregon, Eugene, OR
BA Geography, Mount Holyoke
College, South Hadley, MA

Certifications

Sediment & Stormwater Certified
Construction Reviewer | 2015 |
Delaware Natural Resources

Relevant Expertise

Park Planning & Design
Environmental Enhancement
Public Involvement Graphics

Joined Firm

2015

With an interdisciplinary background in environmental consulting, planning, and engineering, Carol's landscape design inspiration comes from the thoughtful intersection of people and place. Her commitment to sustainable systems and social change through design excellence is guided by fundamental environmental design principles. Her project work uses creative problem solving to blend elegant details in recreation and restoration. She is especially motivated by projects that make a difference in the Puget Sound.

Planning responsibilities include mapping and master plan design layout, open space planning, activity programming, streetscape design, sustainability issues, landscape site design, and parks and recreation design. Carol has worked as a team member on many of J.A. Brennan Associates' park projects. Her work has included the design of recreation, institutional, educational, and restoration sites in sensitive natural and cultural areas.

Relevant Projects

West Bay Environmental Restoration Assessment | Olympia, WA | As the primary graphics production designer for the West Bay environmental restoration assessment, Carol's illustrative plans and sections helped the interdisciplinary scientific team quantify restoration impacts of the designs and communicate with the client and project stakeholders.

Japanese Gulch Creek Daylighting Park | Mukilteo, WA | Carol is a key team member team for this park in downtown Mukilteo. She organized the project schedules, coordinated with clients and subconsultants, and participated in public meetings. The park design began as part of a master plan and progressed to schematic design and construction drawings. The pocket estuary will daylight Japanese Gulch Creek while focusing on public access and restoration

Juneau Downtown Seawalk: Bridge to Gold Creek, Juneau, AK | As part of the project team Carol led hardscape and landscape design construction documents for an overwater Seawalk, an urban park plaza, and shoreline habitat creation.

Kayak Point Regional Park Master Plan | Snohomish County, WA | A master plan update for Kayak Point's 350 acres of undeveloped parklands includes trails, camping and environmental education facilities. Carol performed initial site analysis, coordinated subconsultant input, drafted alternatives, organized an online survey, and communicated findings to the client and the public.

NOAA Research Laboratory | Mukilteo, WA | In coordination with an interdisciplinary team, Carol worked on development alternatives for a scientific research station on Possession Sound. Key landscape design elements were included in each of the three site layout options, including: a downtown 15' wide promenade with tidelands access, creek daylighting and restoration, environmental education interactive elements, ROW improvements, parking lot design, pedestrian circulation, and shoreline design for recreation and habitat enhancement.

Shane Phillips PE | Principal Engineer | Mott MacDonald |

Project Role: Lead Coastal Engineer



Education

BS, Civil Engineering Washington State University, Pullman, 1993

Registration

Professional Engineer: WA 34656; OR 88031; CA 57552; ID 16847; CT 30143; TX 90683; LA 30666; FL 64271

Relevant Expertise

Park planning & design
Nearshore and estuary restoration
Coastal engineering analysis and design
Waterfront structure design

Joined Firm

2003

Shane has 24 years of experience related to planning studies; feasibility evaluation; alternatives analyses; condition assessments; conceptual, preliminary, final design; and construction administration of structural and civil components of parks, nearshore restoration, and waterfront development projects. His experience includes the layout and design of piers, bulkheads, beach nourishment, waterfront parks, nearshore restoration, shoreline stabilization, dredging, dredged material disposal and water quality improvements.

Relevant Project Experience

City of Olympia West Bay Environmental Restoration Assessment, Olympia, WA | Project Director | Led preparation of the Budd Inlet West Bay Restoration concept plan and assessment. The plan prioritized restoration projects for review by the City, Port of Olympia, and Squaxin Island Tribe. His team developed restoration opportunities and evaluated ecological and physical processes for four lagoon area alternatives. He also assisted with concepts for the waterfront park, trails/connections, and boardwalk/pier access. He attended stakeholder meetings and assisted with development of final report.

City of Kenmore Squires Landing Waterfront Development | Kenmore, WA | Project Director | Completed feasibility evaluations for multiple improvements including removal of structures, property acquisition, a new upland boat house, boat staging area, parking area, trails, footbridges, floating docks, and environmental enhancement/mitigation. Developed two alternative conceptual design layouts; provided graphic plans, details, sections, and cost estimates for the waterfront park.

Bayview State Park Shoreline Stabilization | WA St Parks | Padilla Bay, WA | Project Manager | Provided a feasibility-level coastal engineering evaluation of potential shore stabilization and beach restoration alternatives at an existing state park facility. Shane developed final design documents and assisted with construction administration for the project that was constructed in 2016.

Mission Creek Pocket Estuary Restoration, SPSSEG | Olympia, WA | Project Manager | Characterized hydraulics, sediment inflow, morphology and quantified the coastal processes. He analyzed and developed alternative conceptual designs for upland sediment removal, tidal channel location, and beach restoration. Documented alternative concept designs, developed final engineering and bid documents, and provided assistance during construction phase for restoration project on City of Olympia Park property.

West Bay Franks Tidelands Nearshore Restoration, Olympia, WA | Project Manager | Observed and confirmed project site coastal processes, morpho dynamics, habitat features, and shoreline structures. Evaluated three conceptual-design alternatives. Summarized design basis and recommendations, conceptual drawings and cost estimates of preferred alternative in a technical memorandum.

Younes Nouri PHD PE | Coastal Engineer | Mott MacDonald

Project Role: Coastal Engineer



Education

PhD, Coastal Engineering, Johns Hopkins University, 2012
MAsc, Coastal Engineering, University of Ottawa & Canadian Hydraulics Center, Ottawa, ON, Canada, 2008
BS, Civil Engineering, Civil Engineering Department, University of Tehran, Tehran, Iran, 2003

Registration

Professional Civil Engineer: CA 83037

Joined Firm

2013

Relevant Expertise

Estuary/nearshore restoration
Coastal resiliency & sea level rise
Waterfront park planning & design

Younes is a Coastal Engineer with more than seven years of professional experience on a variety of projects including marine waterfront park design and estuary shoreline restoration/stabilization. His projects consider coastal hazards including relative sea level rise into design, and dredging and removal of contaminated sediments in the marine environment. He recently worked as the project engineer for a multi-disciplinary team that developed concept designs for two waterfront parks for the City of Kenmore. Younes is currently leading the team through the preliminary engineering and permitting phase.

Relevant Projects

City of Olympia West Bay Restoration | Olympia, WA | Completed a science-based environmental restoration assessment to support implementation of water quality and habitat restoration strategies. The project included prioritization of restoration projects for planning and managing by the City, Port of Olympia, Squaxin Island Tribe, and other public entities. Younes performed data collection and criteria development, a shoreline restoration assessment, and alternatives analysis for the lagoon area.

City of Kenmore Squires Landing Waterfront Improvements | Kenmore, WA | To enhance the park for public use and the boating community, Younes led a team to develop alternatives for potential park improvements. He conducted feasibility evaluation for removal of existing structures; potential property acquisition; new upland boathouse with restroom; boat staging area; parking area, trails, footbridges, and floating docks; and environmental enhancement /mitigation. Two alternative conceptual design layouts for the improvements provided conceptual-level graphic plans, details, sections, and costs for review by the public and decision makers.

City Kenmore Log Boom Park Waterfront Improvements | City of Kenmore, Kenmore, WA | Younes evaluated feasibility of potential park improvements included in the previously-completed Log Boom Park Master Plan - Phase 2. He led the team to identify feasible design elements, refine the conceptual-level design, develop a revised conceptual park graphic and associated budgetary cost for public review, and supported the City's pursuit of funding. Improvements included beaches, a boardwalk-trail, hand-carry boat launch, swim float, over-water pier modifications, gazebo-overlook, log boom, and environmental enhancement/mitigation. He worked with a interdisciplinary team to develop a revised overall park plan.

West Bay Franks Tidelands Nearshore Restoration | Olympia, WA | Younes assisted with development of conceptual design alternatives to restore near-shore processes, improve water quality, and enhance intertidal habitat at the project site. He reviewed historical site data, developed a basis of design that summarized project goals and design criteria. He also evaluated three alternatives to accomplish the project objectives.

John Jacob, MS PE | Structural Engineer | Mott MacDonald

Project Role: Marine Structural Engineer



John is a Senior Project Manager with over 18 years of experience as an engineering professional. His experience is predominantly in projects involving marine structures. John has worked on projects ranging from small marinas and boat launches and waterfront parks, to large scale, multi-billion dollar projects, involving LNG and petroleum terminals.

Relevant Projects

Moorage Facility Improvements at James, Doe, and Matia Island | WA St Parks & Rec Comm | San Juan County, WA | The project involves repairs to and replacement of existing moorage structures including floats, gangways, piles, and on-shore abutments. John is directing the engineering effort by formulating project work plans, supervising the engineering and drafting staff, overseeing the design development, compiling submittal packages, and coordinating resource allocation.

Scappoose Bay Marina Improvements | Port of St. Helens | Warren, OR | Assessment of an existing marina dock to evaluate feasibility of attaching additional boat houses. John met with the client and conducted a site assessment of the existing marina. He oversaw the engineering effort to assess the feasibility of attaching new boat houses at the marina. He outlined the results of the analysis and the feasibility assessment in a technical memorandum submitted to the client.

Public Boat Launch Rehabilitation Project | Port of Poulsbo | Poulsbo, WA | This project involved rehabilitation of the existing concrete boat ramp, replacement of existing piles, repairs or replacement of existing boarding floats, mitigation of the effects of adjacent slope sloughing, and modifications to an upland traffic island which affects vehicle maneuverability while accessing the ramp. John led the efforts of developing documents for the Port to submit for grant application funding, including preliminary design drawings and cost estimates.

Possession Beach Boat Ramp Repair and Replacement | Port of South Whidbey | Whidbey Island, WA | Project Manager | Oversaw preliminary and final engineering design of the new boat ramp, abutment, replacement piles, repairs for the timber floating docks, and upland paving. Provided resource planning, monitoring the schedule and budget, and submittal delivery. He is currently providing engineering support during the bidding and construction phase.

Yarrows Boat Ramp Design Modification | Dept of National Defence, Canada, Canadian Forces Base | Esquimalt, BC | Modification to the design of a boat ramp by reorienting it to accommodate naval vessels on an adjacent pier.

Education

MS Civil Engineering, University of Oklahoma, 1998

BE Civil Engineering, Veermata Jijabai Technological Institute | University of Mumbai, India, 1996

Registration

Professional Civil Engineer: WA 49088; CA C65323; BC (Canada) 34644

Joined Firm

2015

Relevant Expertise

Waterfront park & recreational structures

Construction cost estimating

Paul Schlenger | Principal Fisheries Biologist | Confluence | Project Role: Lead Ecologist



Education

M.S., Fisheries, University of Washington, Seattle, 1996

B.A., Environmental Sciences, University of Virginia, Charlottesville, 1991

Certifications

Certified Fisheries Professional,
American Fisheries Society, No 3470,
2003-present
Forage Fish Biologist, WDFW
Eelgrass and Macroalgae Surveyor,
WDFW

Expertise

Fish Ecology and Marine Biology
Habitat Restoration

Paul is a fisheries biologist and marine ecologist with 20 years of experience in shoreline assessment and design in marine nearshore, estuarine, and freshwater environments. Paul has applied his expertise to multidisciplinary teams working on park planning and restoration design projects throughout the region. As lead ecologist for multiple shoreline restoration projects Paul's projects include the ongoing restoration design at Saltwater State Park (Des Moines), as well as completed and constructed projects in West Bay Park Phase I, Seahurst Park (Burien), Olympic Sculpture Park (Seattle), and Howarth Park (Everett).

Paul role is to inform the development of site alternatives, analyze the relative ecological benefits and sustainability of each alternative, participate in stakeholder and community outreach, and contribute to restoration design of the preferred alternative. Through his extensive shoreline park experience, Paul understands the importance of restoration designs that significantly improve ecological conditions, while doing so in a manner consistent with the need to also provide for recreational uses at the site. Paul currently serves on Washington State's Salmon Recovery Funding Board Technical Review Panel. Through this work, Paul has extensive knowledge of ecological grant funding programs and application processes and has helped several clients secure grant funding.

Relevant Projects

West Bay Park Phase I | City of Olympia | Olympia, WA | Lead Ecologist |

Led the nearshore habitat assessment of the park shoreline. Contributed to the development of shoreline restoration design through investigation of existing and historic habitats throughout lower Budd Inlet. Participated in stakeholder discussions with the Squaxin Island Tribe to discuss the shoreline design rationale and gain approval for the restoration.

McSorley Creek Pocket Estuary Restoration Project at Saltwater State Park | King County Department of Natural Resources and Parks | Des Moines, WA | Lead Ecologist |

Leading the nearshore and stream assessment for this multidisciplinary project that will reconstruct the lower reach of McSorley Creek, restore a pocket estuary, and reconnect sediment sources along approximately 1,000 feet of the Puget Sound shoreline. Worked with a multidisciplinary team to develop restoration alternatives and evaluate feasibility. Led the development of evaluation criteria and the feasibility report.

Seahurst Park Habitat Restoration and Monitoring | City of Burien | Burien, WA |

Contributed to the restoration planning and design of two phases of habitat restoration along approximately 4,000 lineal feet of Puget Sound shoreline. Work included baseline habitat assessment, pre- and post-construction eelgrass surveys, and restoration design. Also led the analysis of the ecological benefits of multiple alternatives to inform cost-benefit analyses.

Scott White | Principal Environmental Planner | Confluence |

Project Role: Permit Lead



Education

BA Economics/ Political Science,
Western Washington University,
Bellingham, 1995

Certifications

Wetland Identification/Delineation,
Everett Community College, 2000

Relevant Expertise

Environmental Planning and
Permitting
Environmental Documentation
ESA Consultation

Additional Training

Tribal Environmental Regulations in
Washington State, NW Environmental
Training Center, 2005
Environmental Review Summary (ERS)
Form, WSDOT, 2005 and 2007
Section 106 of the National Historic
Preservation Act, WSDOT, 2004
Section 4(f) of the Department of
Transportation Act, WSDOT, 2004
Endangered Species Act (POL – 301),
NW Environmental Training Center,
2004
NEPA and EIS, NOAA Fisheries, 2003
Section 404 Nationwide Permit/
Section 401 Water Quality, U.S. Army
Corps of Engineers, 2001

Scott White has 20 years of experience providing leadership and strategy to planning and permitting efforts in support of park redevelopment, infrastructure, and other capital projects for state and municipal agencies and private developers. He has extensive experience with park planning, habitat restoration, surface water, transportation, agricultural, and rural/urban land use and development proposals.

Scott has in-depth knowledge of local, state, and federal laws, regulations, and policies relating to natural resource management, land use, transportation, and surface water management. This expertise includes the Washington State Growth Management Act, Shoreline Management Act, State Hydraulic Code, and State Environmental Policy Act; and the federal Endangered Species Act, Clean Water Act, National Historic Preservation Act, and National Environmental Policy Act.

Scott has extensive experience working with local, state, and federal agencies such as WSDOT, Ecology, WDFW, the Federal Highway Administration, NMFS, USFWS, U.S. Army Corps of Engineers (Corps), and various local tribes including the Muckleshoot Indian Tribe, Puyallup Tribe, and Quinault Indian Nation. Scott's years of experience and rapport with these entities allows him to combine many different perspectives to facilitate win-win solutions and successful projects, integrating mitigation actions into proposed development to facilitate permit approvals.

Relevant Projects

McSorley Creek Pocket Estuary Restoration Project at Saltwater State Park | King County DNR and Parks | Des Moines, WA | Project Manager | This project will reconstruct the beach front, nearshore, tributary stream, and park design of Saltwater State Park to enhance habitat for salmon. Key features include realigning McSorley Creek to restore stream habitat, the removal of marine shoreline armoring to create a dynamic and natural beach front and near-shore area, stabilization of an eroding scarp, and the assessment and relocation of several CCC-era State Park buildings and structures. Scott is managing all aspects of the project, including a multidisciplinary team of experts and numerous subconsultants, to deliver a robust site investigation, an alternatives analysis (including substantial public involvement), and preliminary design.

SR 520 Corridor Improvement and Bridge Replacement Program | WSDOT | Seattle, WA | Regulatory Compliance Manager and Permitting Lead | Scott managed permit acquisition, regulatory compliance, and environmental project delivery for this \$4.6 billion program. The process required permitting and related approvals from over 20 different agencies and jurisdictions. The program included field investigatory, restoration, and construction related support projects. It also involved several regional trail elements. Scott developed the overall permit strategy and schedule for the program for both Design/Bid/Build and Design/Build projects, and led development of environmental components of the Design/Build procurement process as well project transition into construction.

Robert W. Droll, ASLA | Principal Landscape Architect | RWD |

Project role: Local Expertise, Public Involvement



Education

Bachelor of Landscape Architecture
University of Idaho, 1979

Professional Licenses/Registration

Landscape Architect
State of Washington, 1990
State of Idaho, 1980

Experience

37 years

Joined RWD

1992

Relevant Expertise

Institutional Knowledge
of Olympia Parks
SITES Certification Planning

Robert Droll is a landscape architect based in Olympia. He brings experience with permitting, planning, design and construction administration for a wide diversity of public waterfront spaces throughout the Pacific Northwest. From Barrow, Alaska to Olympia, Washington, Bob has been the Project Manager and/or Lead Landscape Architect, from small waterfront contemplative parks to planning for over one-mile urban waterfront shorelines.

Relevant Projects

East Bay Public Plaza | Olympia, WA | LOTT | Cleanwater Alliance | Prime Consultant | RWD was tasked with creating a vibrant, educational, and wholly interactive plaza located within the heart of downtown Olympia. East Bay Public Plaza, situated on a formerly-contaminated brownfield site, was designed to be a sustainable urban oasis, providing public visibility and education about reclaimed water as well as the intrinsic value of clean water within our ever-changing local and global community. The design features a plaza-length interactive stream that utilizes reclaimed water with which the public is invited and encouraged to interact. Other design features include a constructed reclaimed water-filled wetland, colorful water interpretation imbedded within the hardscape, bronze sculptures highlighting native fauna, and a reclaimed methane-heated restroom building that includes a green roof. The plaza was designed in collaboration with the LOTT Clean Water Alliance as well the three other East Bay Partners: Port of Olympia, City of Olympia, and the Hands On Children's Museum. Because of the wealth of sustainable features included within, the plaza earned certification for the new Sustainable Sites Initiative (SITES) program.

Olympia Port Plaza | Olympia, WA | Port of Olympia | Prime Consultant |

The Port of Olympia commissioned RWD to carry out a master planning process which includes researching site conditions, defining the plaza's program and preparing conceptual designs for one of Olympia's largest urban spaces on West Bay. The process involves eliciting program input from Port Staff, Port Planning Advisory Committee, and the Port Commissioners and review by the public. The plaza was designed as a timeline interpreting the Port of Olympia development history.

Olympia Gateway Corridor | Olympia, WA | City of Olympia | Bob was Project Landscape Architect for the largest public works project the City of Olympia has undertaken: the Olympia Gateway Corridor on West Bay. Bob worked on the public outreach, artwork, revegetation, landscape, irrigation improvements, and all aspects of the streetscape components. Envisioned as the gateway to downtown Olympia from the west side and a defining feature of the Olympia landscape for the next century, the project accommodated heavy daily traffic while embracing pedestrian/bicycle facilities, created streetscape character which symbolically transitions from urban to rural and fostered a lively, intriguing downtown fabric.

Carolyn Law | Studio & Public Artist | Public Art | Project Role: Public Art Planning



Education

MFA University of Washington,
Seattle, WA

BA Georgetown University,
Washington, DC, Cum Laude

Honors and Awards

2010 *Year in Review Award*, Public Art
Network, best public art projects of
the year

Les Grube Design Award, best
project of the year 2010, Chain Link
Manufacturers Institute

Centrum Foundation, one-month
residency for discussions on creativity
and studio work 2000

American Concrete Institute
Construction Awards 2005, Depot
Park, Unique Use of Concrete

Seattle Design Commission, 2003
Project Commendation, Pro Parks Art
Plan

Seattle Design Commission, 1985
Project Commendation, Broad Street
Substation

Carolyn Law is a studio and public artist with diverse experience. Her public art experience encompasses a wide range of commissioned art projects, art plans, and the curating of innovative exhibitions in public places. Public art projects range widely from design team projects with all interdisciplinary professionals and considerable interface with communities and governmental agencies, to site-specific integrated artworks, sculptures, and temporary installations.

Her project scales range from a single site (such as a city hall) to multiple artworks being placed throughout a city park system over a period of years. Her art system plans are marked by diverse approaches to integrating public artworks. Law's studio work involves both mixed media pieces as well as temporary installations in a variety of interior and natural settings, and the studio work continues to inform her public art practice.

Public Art Planning Projects

West Bay Sidewalk Project | Olympia, WA | 2015 | Olympia Public Art Program | With poet Lucia Perillo | One mile of new sidewalk connected the neighborhood to the park. Artwork and poems were integrated into retaining walls and incorporated into sidewalks locations along the pathway.

City of Redmond Public Art Plan Redmond, WA | Redmond Public Art Program and Parks Department | 2016 | Collaborated with artist Ellen Sollod on completely re-envisioning public art for Redmond for the next 20 years. Addressed a variety of public art threads that drew a constantly changing, diverse community together through a wide variety of linked cultural experiences.

Eastside Regional Park | El Paso, Texas | El Paso Public Art Program | 2016 | A plan for diverse integrated, experiential artworks responding to a variety of planned uses for a new 100-acre regional multi-use park. Park developed in phases.

Yesler Terrace Public Art Plan | Seattle, WA | Seattle Housing Authority | 2016 | A plan outlining an interwoven series of social practice, integrated and iconic artworks for a public/private redevelopment of Seattle's historic subsidized housing project. The plan would allow the two disparate economic communities to build a new inclusive community.

On Land By Water | Eastlake & South Lake Union neighborhoods | Seattle, WA | 4 Culture with Seattle Office of Art & Cultural Affairs Public Art Programs | 2015 | Iconic sculpture of recycled infrastructure components from Mercer Corridor project and earlier electric trolley public art project.

Amber Early, RPA | Archaeologist | SWCA

Project Role: Archaeologist



Amber is an experienced senior archaeologist and project manager, with 13 years in SWCA's Seattle office. In the last 5 years, Amber has served as project manager for more than 60 cultural resource management projects and has contributed to over 30 other projects as a senior archaeologist and technical reviewer.

Amber has extensive experience with federal, state, and local cultural resources regulations and has completed formal training regarding NHPA, GEO 05-05, SEPA, and NEPA, and Federal Highways Act Section 4(f) guidelines for Historic Properties. She has also presented expert testimony to hearing examiners for SEPA appeals and has experience providing briefings to elected officials.

Education

MA, Anthropology; University of Washington, Seattle; 2000
Graduate Certificate Program, Certificate in Museum Studies; University of Washington, Seattle; 2004
BS, Anthropology; University of New Mexico, Albuquerque; 1996

Registrations/Certifications

Meets the Secretary of Interior's Professional Qualification Standards in Archaeology
Registered Professional Archaeologist

Amber maintains positive relationships with the cultural resources representatives of many of Washington State's Tribes and communicates regularly with agency staff, and the local archaeological community.

Relevant Projects

West Bay Park Cultural Resources Assessment; Olympia, Washington; City of Olympia Parks, Arts, & Recreation (2011) | Amber provided a cultural resources assessment of West Bay Park, the City of Olympia Parks, Arts and Recreation Department. Phase I plans for the new park included integrating public access and recreation with shoreline and habitat restoration, as well as removal of soils contaminated by past industrial activities. The cultural resources assessment included background research, monitoring of geotechnical studies, and field survey. Three cultural resources were identified by the study. Two properties, the Burlington Northern Santa Fe (BNSF) railroad spur and the Tumwater Lumber Mill site, WBP-o8-o2, are within Phase I boundaries. The third site, a possible shell midden, is outside of the boundary. Archaeological monitoring was recommended and a Monitoring and Discovery Plan was produced.

Tumwater Historical Park Trail Project; Tumwater, Thurston County; City of Tumwater (2015–2016) | Amber recently helped the City of Tumwater with a proposed trail through an historic district that also included a pre-contact shell midden that would be affected by the trail project. After completing a cultural resources assessment that located intact shell midden deposits, SWCA coordinated with local Tribes, WSDOT Local Programs, and City engineers to redesign the trail so that it avoided the archaeological site, saving the city costly mitigation work. Working closely and directly with City of Tumwater staff ensured project efficiency and saved them time and money.

Tracey Belding, PE | Senior Civil Engineer | DCG |

Project Role: Stormwater Systems



Education

BS, Civil Engineering
University of Washington, 1992

Registration

Professional Engineer
State of Washington
License No. 34480, 1997

Tracey consults with a variety of municipal clients in Washington. She provides planning, design and project management services for "wet" utility systems. Her experience includes comprehensive planning, design, modeling, cost estimating, and construction management for public utility projects, with a focus on drinking water and stormwater systems. Recreational facilities are often incorporated into her projects, where she incorporates Green Infrastructure and Low Impact Development design including permeable pavement parking lots, rain gardens, and water quality treatment wetlands.

West Bay Environmental Restoration Assessment, City of Olympia, WA | Lead

stormwater engineer assisting the team with identification of stormwater treatment opportunities related to the assessment of environmental restoration strategies for the West Bay shoreline. Potential treatment sites and strategies were identified for sub-catchments that drain to West Bay, including end-of-pipe as well as upland treatment strategies. Tracey conducted field visits, quantified sub-catchment areas, selected potential treatment sites, and developed rough order of magnitude cost estimates for stormwater treatment improvements for planning purposes.

Yauger Park Regional Stormwater Facility Improvements, City of Olympia, WA |

Tracey was project engineer and assistant project manager for the preliminary engineering, design and construction phases of a multi-disciplinary team for the regional stormwater mixed-use facility. The federally funded (ARRA) project featured a 5.6 acre joint-use parking, recreation facilities and green stormwater infrastructure (GSI) facilities including water quality treatment wetlands, bio-retention facilities, permeable pavement and a water harvesting pump and filtration system.

On-Call Storm and Surface Water Engineering, City of Olympia, WA | Tracey

was project manager and design lead for on-call stormwater projects with the City of Olympia. Tracey is currently involved with projects including stormwater treatment technologies, creek culvert repair, stormwater treatment pond solids removal program, and conveyance to alleviate flooding. Tracey has been involved with all aspects, including environmental/critical areas assessments, and other state, local and federal permits and approvals.

South Park Drainage Conveyance Improvements, Seattle Public Utilities, Seattle, WA | Member of a multidisciplinary team evaluating roadway and

stormwater conveyance improvements including options analysis and implementation/prioritization planning for constructing a new regional pump station that is combined with sea level rise mitigation improvements (to be completed by USACE) and stormwater conveyance improvements that will alleviate historic flooding in the area. Tracey is providing civil engineering services for roadway and stormwater elements, and coordinating modeling efforts that incorporate climate change and sea level rise considerations.

Quin Clements, PE | Principal Civil Engineer | DCG | Project Role: Parks Facilities Engineer



Education

BS, Civil Engineering
Washington State University, 1996

Registration

Professional Engineer
State of Washington
License No. 37356, 2001

Quin has worked both as a private consultant and as an Assistant City Engineer. His career began in construction inspection, primarily in the development of water, sanitary sewer, and storm drainage systems. Quin has a strong background in design engineering and is knowledgeable in all phases of project programming from early planning and financing to permitting and construction. He works in a broad range of civil engineering disciplines with a focus on parks and recreation sites.

Relevant Projects

Mukilteo Downtown Waterfront Phase 1 Design | Mukilteo, WA | Principal engineer for the Master Planning of a revitalized downtown waterfront that will relocate the ferry terminal and loading areas and enhance pedestrian mobility, bicycle paths and waterfront uses.

USDOI National Park Service IDIQ | Western U.S. locations | Since 2013, Quin has managed a \$75 Mil Indefinite Delivery Indefinite Quantity (IDIQ) contract with the National Park Service to perform civil engineering services for a variety of projects in national parks across the west.

USDA U.S. Forest Service IDIQ | Western U.S. location | Since 2011, Quin has managed a \$4.9 Mil Indefinite Delivery Indefinite Quantity (IDIQ) contract with the U.S. Forest Service to perform civil engineering services for a variety of projects at National Forest Service sites across the west.

Boundary Hydroelectric Recreation Sites | Seattle City Light | Northeastern WA | Project manager and principal project engineer for new ADA accessible recreation sites and improvements to existing dispersed camp sites that include camping, parking, boating, roadways, trails and restroom facilities.

Lake Stickney | Snohomish County, WA | Principal engineer for a 22-acre park site. Phase I design analyzed approaches to minimizing impervious surface and drainage impacts associated with parking, trail and play area improvements. Design includes stormwater mitigation and treatment and site water service improvements for future potable and irrigation water needs.

South Whidbey Parks & Recreation District Projects | Langley, WA | Principal engineer on multiple Parks District projects including drainage systems to serve existing soccer and baseball fields, design of roadway and parking lot grading and drainage improvements to serve park facilities, and design/ oversight of clearing, grading & roadway improvements associated with new maintenance facility building.

Pinnacles National Park Trail | National Park Service | Project Manager for design of an accessible looped trail system leading to an overlook viewing area. The new ADA trail will be used as the launching point for future naturalistic trail systems to connect with existing special park features.

Erik Davido, PE LEED AP | Principal | DCG |

Project Role: QC/QA



Education

BS, Civil Engineering,
University of Washington, 1992

Registration

Professional Engineer
State of Washington
License No. 33723, 1997

Erik Davido works in a broad range of civil engineering disciplines while maintaining an emphasis in sewer and stormwater systems. He has extensive experience in project funding, comprehensive planning, permitting, regulations compliance, and public involvement. He has managed many projects from early planning through construction, which have typically involved coordination between multiple stakeholders, as well as assistance with regulatory or funding agencies such as Washington State Department of Ecology.

Sea Level Rise Response Engineering, City of Olympia. | Erik served as the civil engineering lead to develop alternative conceptual designs for protecting downtown Olympia and associated areas from effects of long-term sea level rise. DCG provided engineering concepts for facilities intended to reduce flooding impact, concepts for combining stormwater outfalls in Budd Inlet, and recommendations for placement of tide valves and pump systems in the system. Erik also participated in developing recommendations for long-term progression of implementing flood control measures.

Yauger Park Regional Stormwater Facility, City Olympia | Erik was DCG's principal engineer and project manager for the preliminary design of a regional stormwater mixed-use facility. He led a multidisciplinary team for the federally funded (ARRA) project, preliminary engineering, funding assistance, Operations and Maintenance Plan and construction phase services. The project featured a 5.6 acre joint-use parking, recreation facilities and green stormwater infrastructure (GSI) facility including water quality treatment wetlands, bio-retention facilities, permeable pavement, and a water harvesting pump and filtration system.

Lyon Creek Flood Mitigation, City of Lake Forest Park | Erik led a team of nine sub-consultants on this successful stream, culvert and roadway project to alleviate flooding on private property and WSDOT's State Route 522. Through an agreement between the City and WSDOT, the project involved replacement of the WSDOT culvert with a concrete box culvert, and reconstruction of the WSDOT roadway including local drainage improvements and the installation of new sidewalks along the highway. As Project Manager, Erik oversaw design, and construction management of 1,450 LF of stream and culvert improvements in the Lake Forest Park Town Center and surrounding areas.

Tacoma Nature Center, Metro Parks Tacoma | This 54-acre facility is dedicated to nature education, research, and appreciation of the natural environment of the PNW. DCG teamed with J.A. Brennan to design park improvements. Erik was Principal Engineer, responsible for the design of structural, drainage, erosion control, and utility elements for the project. The unique characteristics of the Snake Lake wetland and the urban residential watershed presented challenges to the stormwater design, which DCG solved through a combination of Low Impact Development techniques including rain gardens and a dispersion trench.

Calvin McCaughan, PE | Principal | Landau | Project Role: Geotechnical Lead



Education

BS, Civil Engineering/ Geotechnical Engineering, University of Wyoming, 2003

Registration

Professional Engineer (Civil):
Washington (No. 44709)
Oregon (No. 85813PE)

Expertise

Geotechnical engineering
Pavement design
Slope stabilizations
Embankments and roadways
Retaining wall design
Foundation design
Construction oversight
Geologic hazards

Calvin leads Landau Associates' geotechnical engineering practice and has extensive experience as a geotechnical project manager or principal-in-charge for public works and marine construction projects throughout the South Sound area. He is a licensed Professional Engineer with a strong understanding of local conditions. He is an effective contributor on multidisciplinary project teams and frequently provides geotechnical engineering services to support master planning projects.

Relevant Projects

Washington State Department of Natural Resources, Marine Station Redevelopment Master Plan; Olympia, WA | Geotechnical Project Manager | Geotechnical engineering and environmental permitting services to support the project design team in the development of four concepts and one preferred option to develop the master plan. Geotechnical services included a preliminary evaluation of foundation support alternatives, pile capacities and types, soil liquefaction potential, steep slope setbacks, soil infiltration, site grading, pavement support, and bulkhead repair/replacement. Also developed order magnitude cost estimates for geotechnical-related items, including cost estimates for future contaminated sediment dredging, geotechnical exploration, report preparation, and construction.

City of Olympia, Olympia Avenue Shoreline Stabilization; Olympia, WA | Geotechnical project manager | Evaluated shoreline erosion repair alternatives along the southern terminus of East Bay. Geotechnical services included review of historic subsurface exploration logs and site infilling history, and providing consultation related to geotechnical aspects of proposed short-term and long-term shoreline stabilization measures; including feasible slope inclinations, support of retaining walls and pathways, and excavation and support of a large-diameter culvert in an intertidal environment.

City of Olympia Parks and Recreation, Ward Lake Master Plan; Olympia, WA | Geotechnical project manager | The project includes a new upland playfield, parking improvements, a swimming beach, vehicle maintenance access trails, a restroom structure, and several alternatives to provide ADA compliant beach access down a steep slope. Geotechnical services included slope stability analyses, geotechnical recommendations for design of soldier pile retaining walls and driven pile foundations, conceptual level recommendations for compaction grouting to mitigate soil liquefaction, and earthwork recommendations and settlement estimates for proposed beach infill areas and restroom structure.

Larry Beard, LHG | Principal | Landau | Project Role: Contaminated Soil/Sediment Lead



Education

MS, Geological Engineering,
Washington State University, 1985
BS, Geological Engineering, University
of Idaho, 1980

Registration

Professional (Civil) Engineer: 1988/WA,
No. 24755
Licensed Hydrogeologist: 2002/WA,
No. 1296

Expertise

Regulatory analysis and agency
negotiations
Project management
Upland investigation and cleanup
Sediment investigation and cleanup

Awards

Port of Everett, Waterfront Place
Marina District Redevelopment/
Cleanup | *Washington Public Ports
Association Environmental Project
Award* in 2015 and the 2017 American
Council of Engineering Companies–
Washington Gold Award

Larry is a licensed hydrogeologist and environmental engineer with more than 30 years of experience in investigative, management, and advisory roles in environmental site investigations, remedial design and construction, and marine sediment investigation and remediation. He has been a key contributor to cleanup and redevelopment of several waterfront properties for the Ports of Olympia, Everett, and Bellingham. His environmental consulting experience includes the investigation and remediation of multiple contaminated marine sediment sites, including the Cascade Pole site located at the Port of Olympia in Budd Inlet.

Port of Olympia, Cascade Pole Site Sediment Remediation and Restoration; Olympia, WA | Project manager | Investigation, design, and construction of sediment and upland cleanup projects from 1997 to present. Larry has managed numerous investigation and cleanup projects on the CPC Site including:

- Design and construction oversight of bentonite slurry wall installation and various phases of upland capping interim actions
- Design and construction oversight of sediment interim action
- Groundwater extraction system modeling and system expansion
- Ongoing groundwater containment system monitoring
- Periodic sediment compliance monitoring

Larry has also assisted the Port in negotiations with Ecology throughout his involvement with the CPC Site including the negotiation of agreed orders, the scope for upland and aquatic investigations, the development of a draft upland Cleanup Action Plan, and the resolution of issues and concerns raised by Washington State Department of Ecology.

Port of Everett, Waterfront Place Marina District Redevelopment/Cleanup; Everett, WA | Project manager | Regulatory negotiation, investigation, design, permitting, and construction oversight of the environmental cleanup for multiple MTCA sites present on 65 acres of waterfront property being redeveloped by the Port of Everett as its Waterfront Place Marina District. The sites are contaminated with a variety of hazardous substances in soil, groundwater and marine sediment. Improvements to the site infrastructure were integrated with the site cleanup, and included a new shoreline bulkhead, realignment of marina floats, improvements to site stormwater outfalls, and replacement of the City of Everett combined sewer overflow outfall and conveyance system within the project area.

Port of Bellingham/City of Bellingham/WA DNR, Cornwall Avenue Landfill Site; Bellingham, WA | Project manager | MTCA cleanup of a former solid waste landfill on the Bellingham Bay waterfront, including remedial investigation, feasibility study and engineering design. Site cleanup design will include stabilization of about 1,500 feet of Puget Sound shoreline, capping about 12 acres of uplands with a low permeability cap, and habitat mitigation to address in-water impacts.

Exhibit A
EQUAL BENEFITS COMPLIANCE DECLARATION

Contractors on City contracts estimated to cost \$50,000 or more are required to comply with Olympia's Equal Benefits Ordinance, Olympia Municipal Code 3.18, and must complete this Equal Benefits Compliance Declaration. Please note: No City contract can be executed until the contractor has completed this Declaration and submitted it to the City.

Contractor Information

Name of Contractor: J.A. Brennan Associates, pllc Contact Person: Jim Brennan
Phone Number: 206.583.0620 Fax: 206.583.0623 Email: jim@jabrennan.com
Approximate Number of Employees in the U.S.: 8 Project #: West Bay Restoration & Park Master Plan

I, Jim Brennan
(Name)
on behalf of J.A. Brennan Associates, pllc
(Contractor Name)

declare that said Contractor complies with City of Olympia Municipal Code 3.18 and does not unlawfully discriminate in providing benefits to Contractor's employees.

I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct, and that I am authorized to bind this entity contractually.

Executed this 19 day of April, 2017, at Seattle,
(City)

WA
(State)


Signature
Principal
Title

Jim Brennan
Name (please print)
91-1952790
Contractor Tax Identification Number

Date 04/19/2017

ADDENDUM ACKNOWLEDGEMENT FORM

WEST BAY RESTORATION & PARK MASTER PLAN

List all Addendum(s) by individual number. Vendor shall verify number of Addendums with Builder's Exchange of Washington prior to bid opening by either calling (425) 258-1303 or going on line at www.bxwa.com.

Receipt is hereby acknowledged of addendum(s) No. (s) 1, , &

THE ADDENDUM ACKNOWLEDGMENT FORM SHALL BE SIGNED BY AN AUTHORIZED COMPANY REPRESENTATIVE, DATED AND RETURNED WITH THE RESPONSE.

	
SIGNATURE	James A. Brennan
	PRINTED NAME

SIGNATURE	PRINTED NAME
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SIGNATURE	PRINTED NAME
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FIRM NAME J.A. Brennan Associates, PLLC

Address 2701 First Avenue, Suite 510, Seattle, WA 98121

Telephone No. () 206.583.0620

NOTE: Failure to acknowledge receipt of Addenda may be considered as an irregularity in the Proposal.

