

Daniel W. Larson, P.E.

(208) 914-4833

dan@7bengineering.com

Priest River, ID 83856

PROFESSIONAL SUMMARY

Daniel is an Idaho licensed professional engineer with a Bachelor of Science degree in Engineering from Walla Walla College (now Walla Walla University) in College Place, WA. He graduated in 1995 and has 30 years of engineering consulting experience in civil and environmental engineering. His primary focus has been on environmental resources including Water, Wastewater, Hydrology, and Hydraulics for the private and public sectors as well as transportation projects. Daniel has been serving North Idaho through the formation of D2G Inc. in 2010, providing site development, drainage, hydrology/hydraulics, grading, erosion control, floodplain, floodway, road design, cost estimating, construction inspections, feasibility studies, lagoon leak tests, preliminary engineering reports, facility plans, and regulatory compliance services. Prior to the 2010 formation of D2G Inc, Daniel was an Owner of Sterling Design in Vancouver, WA. Daniel's work as an owner at Sterling Design consisted of extensive hydrology and hydraulic modeling to support development projects, drainage studies, and FEMA applications. Daniel agreed to assist HMH Engineering from 2015-2018 to grow their private and municipal consulting services. He served private entities, municipalities, individual owners, and the Idaho Transportation Department – District 1 throughout northern Idaho. He was the Responsible Charge Engineer for the US 95 project through Bonners Ferry (Key Number 12964) that included a regional drainage study as part of the stormwater system design.

EDUCATION

Bachelor of Science, Engineering

June 11, 1995

Walla Walla Collect: College Place, WA

LICENSES

Idaho Professional Engineer, P-10086

Issued: March 19, 2001

Discipline: Civil Engineering

Washington Professional Engineer, 40273

Issued: November 20, 2003

Discipline: Civil Engineering

Oregon Professional Engineer, 76009PE (Expired)

Issued: March 8, 2005

Discipline: Civil Engineering

Tennessee, 107660 (Expired)

Issued: April 8, 2002

Discipline: Civil Engineering

EXPERIENCE

Principal Engineer 2018 – Current D2G Inc /dba 7B Engineering, Sandpoint, ID

- ✦ Prepared various residential site improvement plans in Bonner, Boundary, and Kootenai Counties. Designed and drafted site plans; performed grading analyses and estimates; road design; designed stormwater conveyance, detention, and treatment facilities; determined acceptable erosion control measures based on existing and developed site conditions; prepared building location permits, floodplain development design and permits, elevation certificates, design plans, and design reports; and coordinated with surveyors for topography, driveway alignments, profiles, LOMA's, and utilities.
- ✦ Serve as District or Association Engineer for Water and Sewer Districts throughout Bonner County which includes developing Facility Plans, Lagoon Leak testing, Annual Reports, Pilot Study projects, Preliminary Engineering Reports, project Plans and Specifications, Well Evaluations and other permits and requirements reviewed and approved by the Idaho DEQ. Projects comply with Idaho Code, the EPA Clean Water Act, and the Idaho Administrative Procedures Act.
- ✦ Served as the contract engineer and Environmental Engineer for the Coolin Sewer District, Kalispell Bay Sewer District, Oden Water Association, Swan Shores Homeowners Association, Luby Bay Water Association, and Pinto Point Sewer District.

Staff Engineer 2015-2018 HMH Engineering, Hayden, ID

- ✦ Helped fellow engineer Eric Olson, PE found and develop the Municipal Engineering department for a small private firm that specialized in Construction Engineering and Testing for transportation projects. Major federally funded projects included Augusta Street and US-95 in Bonners Ferry as well as Triangle Drive in the city of Ponderay. Served as the contract engineer for the city of Ponderay, city of St. Maries, Plummer, Coolin Sewer District, and Kalispell Bay Sewer District.
- ✦ Performed regional hydraulic study for highway reconstruction project through Bonners Ferry. The US 95 stormwater conveyance system intercepts the "south hill" stormwater and conveys it to the Kootenai River.

Director of Engineering 2004 – 2008 and 2012 – 2015 Sterling Design, Vancouver, WA

- ✦ Performed hydrologics and riverine hydraulic modeling to FEMA standards to analyze channel capacities, culvert projects and sizing, stream/river and habitat restoration, scour and scour counter measures, and floodplain/floodway mapping on projects along Rock Creek, the Washougal River, and the Tuttle River.
- ✦ Performed urban hydrology and hydraulic modeling to analyze stormwater collection and conveyance systems, urban stormwater routing, sizing and design of stormwater detention systems and outlet structures, interconnection between urban systems and riverine systems, and floodplain/floodway mapping.
- ✦ Worked with U.S. Army Corps of Engineers, FEMA, WA Department of Ecology, WA Fish & Game, and stakeholders in the Columbia River basin.
- ✦ Worked with Hazel Dell Sewer District (now Clark Regional Wastewater District) on gravity, STEP, STEG, and STEF system design plans as well as traditional gravity collection system plans, lift stations, and regional wastewater facility planning studies.

Project Manager 2002 – 2003 Rocky Mountain Engineering, Pocatello, ID

- ✦ Managed a wide variety of civil projects including; residential, commercial, institutional (ISU and BYU), and industrial subdivisions and site plans; City of Pocatello rehabilitation plans; ITD roadway design plans for I-15 and Moreland Road.

Project Manager 2000 – 2001 AIMSI, Idaho Falls, ID

- ✦ Contracted work from the Idaho Transportation Department analyzing and designing bridge approaches and completing highway design plans for Districts 5 and 6 in southeast Idaho. Performed hydrologic and hydraulic analyses for pre- and post-project conditions on multiple state bridges. Responsibilities included modeling and mapping the 100- and 500-year floodplains, analyzing pier and abutment scour, revising the regulatory floodway, and preparing FEMA application packages.
- ✦ Major projects included: 3 Bridges in Power County, the Bear River Bridge, Pine Creek Road including the Pine Creek Bridge, Cedar Point Canal Bridge, and Blackfoot Canal Bridge.

Staff Engineer 2000 Inland Northwest Consultants, Priest River and Post Falls, ID

- ✦ Provided engineering support for many private residential subdivisions and associated Large Soil Absorption and Subsurface sewer disposal system designs. Projects included Pre- and Post- Developed stormwater system hydrology and hydraulics, treatment systems, detention systems, and disposal systems.
- ✦ Major projects included “The Club at Black Rock” golf course and subdivision on Lake Coeur d’Alene which included a golf course, wastewater treatment and disposal system, and complex stormwater treatment and detention system. The Coolin Sewer District Rehabilitation project which included a new Facility Plan and PER’s for an upgrade and relocation of the District Treatment system and Wastewater Reuse site.

Engineer in Training 1996 – 2000 LDC Design Group, Vancouver, WA and Hillsboro, OR

- ✦ Progressed through early career as a draftsman, designer, and then design team leader for Civil Engineering projects ranging from industrial and commercial site plans to residential subdivisions. Systems designed included water, sewer, stormwater and transportation.
- ✦ H&H Studies and HEC-RAS modelling for Quatama Creek drainage, city of Oregon City. Other drainage studies included pre- and post- developed hydrology and hydraulic analysis for multiple stormwater design throughout southwest Washington including Clark County and Cowlitz County.
- ✦ Private residential or commercial projects included system designs and permitting in the Portland Metro area including Multnomah County, Clackamas County, Washington County and their cities.

Senior Project 1994-1995 Irrigation District 11, College Place, WA

- ✦ Public Water system design study, hydraulic modelling, analysis, and Distribution design resulting in replacement of all public water mains to meet projected system demands and fire flow requirements. System included wells, pressure vessel, reservoirs, distribution mains, services, and fire hydrants.

SKILLS

- ✦ AutoCAD 9.0 – 25.0, LDD, Civil3D, Microstation, Inroads, EaglePoint, Trimble’s Terramodel
- ✦ Microsoft Office: Word, Excel, Project, PowerPoint
- ✦ Hydrology and Hydraulics: StormCAD, HydroCAD, HEC-RAS, EPANET, KYPipes, HY-8