

Structures / Division Profile

ROBERT PECCIA & ASSOCIATES

From buildings to dams, our Structures Division has the expertise and breadth of experience to provide the right information and solution to help you overcome your engineering challenges. Our services are tailored to your unique needs, delivered timely and professionally with technical excellence.



1) Bozeman Public Library

Located in Bozeman Montana, the striking 49,000 square foot structure was a leading energy efficiency project and was awarded a gold LEED certification. The library is a showcase facility that now anchors both the revitalization of East Main in Bozeman and the trails at Lindley Park. Prior to joining RPA, Mr. Schlegelmilch was the principal structural engineer for this two-story steel frame and wood structure.



2) Saluda Dam, Columbia, SC

Prior to joining RPA, Mr. Schlegelmilch provided engineering expertise to Barnard Construction of Bozeman for this project. Field engineering tasks included the design of flying form systems to support the 650,000 sq feet of precast panels facing the RCC dam core, design of transport systems for the precast panels, design of foundation systems for RCC plant and equipment and design of gallery supports within the dam core.



4) Blacktail Deer Creek - Dillon, MT

RPA designed two new urban highway bridges crossing Blacktail Deer Creek in the City of Dillon as part of a major flood control project. The project rehabilitated 1900 lineal feet of stream through the city to both reduce flooding and improve native fish habitat. Three other specialty pedestrian and pipeline bridges were replaced and extensive modular retaining walls were constructed as part of this challenging urban project.



3) Bridge Design

Mr. Schlegelmilch has extensive bridge design experience. Prior to joining RPA, he designed four bridges with challenging site constraints such as steep grades, sharp skew angles and with minimal disturbance of existing ski lifts and topographic features. In several locations, the result was massive abutments and wing walls to retain and stabilize the large earth embankments on the mountain side terrain of Yellowstone Club, Big Sky Montana. To accommodate the genre and rustic settings, all designs incorporated provisions for thickset stone veneer for all abutments, walls and bridge copings.

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If you have any questions regarding services we can provide, please contact the following individuals:

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MANAGER

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PRESIDENT

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Structural engineering and design is a critical component of almost all engineered products and engineering projects. The American infrastructure is a collage of engineered, designed and built structures. Many are obvious such as bridges serving highways, railroads, and pipelines. Not so obvious examples are solar array supports, rock anchors stabilizing a mountain-side, and deep buried pumping stations transporting water to waiting consumers.

Robert Peccia and Associates (RPA) has incorporated structures in its designs since it first began offering civil engineering services. With the understanding of the importance and integral nature of structures, RPA now offers these services in-house. The results are enhanced project teamwork, faster response time, and enriched company expertise.

Buildings larger than conventional single family homes must be structurally designed. Building codes mandate the

loads, design processes, and desired behavior of the completed structures. Wind, earthquake, temperature changes, earth pressures and material characteristics are some examples of environmental loads. Occupancy by people and materials, along with the weight of the building itself, constitute gravity loads.

Are there major cracks in your building or doors that will not close? You might need a structural engineer. Do you want to convert a warehouse into a restaurant and are changing occupancy? Then you will need a structural engineer. More commonly, maybe you plan to add an addition to your existing building and need a seismic analysis to evaluate the earthquake impacts of additional mass.

RPA now offers all these services in-house. We can evaluate your existing structure whether its a sagging bridge, a cracking wall, or a 50-year-old water tank still diligently serving your water system. Structural evaluations can also help to plan maintenance, rehabilitations, additions and costs.

REPRESENTATIVE PROJECTS

Bridges
Blacktail Deer Creek Bridge Replacements
Kennedy Park Pedestrian Bridge
Ski Access Bridges
Ranch Bridges
Rocky Creek Temporary Bridge
Mineral Creek Bridge

Architectural / Institutional Projects
Wastewater Plant Improvements
Swimming Center Renovations
Saluda Dam Construction Engineering
Bozeman Public Library
Gallatin Field Airport Terminal
MSU Bioscience Building
Whittier Elementary School Improvements
Longfellow Elementary School Improvements
Irving Elementary School Improvements
Gallatin County Courthouse Improvements
Large Animal BSL-2 Laboratory Building
Small Animal BSL-3 Laboratory Building
Deer Park Chalet Ski Lodge
New Belgrade City Hall
Gallatin County Law & Justice Renovations
Bozeman Chronicle New Building
Valley Ice Garden Renovation
Manhattan Christian Schools Addition
Madison Valley Fire Station
Valley Commons Business Park

LOCATION

Dillon, MT
East Helena, MT
Big Sky, MT
Manhattan, MT
Bozeman, MT
Valdez, AK

Wisdom, MT
East Helena, MT
Columbia, SC
Bozeman, MT
Belgrade, MT
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Bozeman, MT
Ennis, MT
Bozeman, MT

CLIENT

Beaverhead County, MT
City of East Helena, MT
Yellowstone Club
Hammer Ranches, LLC
Gallatin County, MT
City of Valdez, AK

Beaverhead County, MT
City of East Helena, MT
Barnard Construction Co.
City of Bozeman, MT
Gallatin Airport Authority
Montana State University
Bozeman School District
Bozeman School District
Bozeman School District
Gallatin County
Montana State University
Montana State University
Bridger Bowl
City of Belgrade, MT
Gallatin County
Bozeman Chronicle
Martel Construction
Manhattan Christian School
Madison Valley Fire District
Prush & Lenon Architects