

STRUCTURAL ENGINEERING

STRUCTURAL ENGINEERING SERVICES

Structural Engineering is one of the most vital aspects in the construction of any building. Structural design is the backbone of all structures, no matter how large or how small. From Foundation Design, Framing Design, Shear Wall Design, and/or Retaining Wall Design, to Structural Inspections. Burgess Construction Consultants' engineers collaborate with architects, builders, and other design professionals to ensure that structures are built to be stable and durable, all while working to provide efficient and cost-effective project design.

- **Foundation Design**
- **Framing Design**
- **Shear Wall Design**
- **Retaining Wall Design**
- **Structural Inspection**

BURGESS

- QA/QC INSPECTIONS
- ENERGY TESTING
- BUILDER TRAINING
- ENGINEERING

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FOUNDATION DESIGN

Our engineers have experience performing structural design & calculations related to foundation engineering/design. The most common foundations our engineers design include:

- Conventional Reinforced Concrete Foundations
- Post-Tensioned Concrete Slab Foundations
- Pier and Beam Foundations
- Basement Foundations

However, based on our experience, our engineers are more than capable of designing other non-standard foundation systems, if required.



FRAMING DESIGN



Framing is the process of connecting building materials together to create a structure. A structure must be designed to withstand a number of forced that will be applied to it (i.e. gravity, wind, shear, seismic, etc.). Burgess engineers provide framing design for the above-grade structural systems and assemblies which consists of floors, walls, and roofs for wood & steel framed structures.

SHEAR WALL DESIGN



Proper shear wall design is essential to the stability of a structure. A shear wall is a vertical element of a system that is designed to resist in-plane lateral forces, typically wind and seismic loads. Our shear wall design will provide locations of bracing required to keep structures from racking or twisting in response to wind and seismic loads.

Shear wall design is typically included in our overall framing design scope of services, but can be provided as a standalone service if requested.

RETAINING WALL DESIGN



Burgess provides structural design services to create retaining walls that can withstand the soil and water pressure conditions that impact your project. Our combined geotechnical & structual engineering background allows us to effectively assess site conditions and design gravity and reinforced retaining wall systems to provide structural support for your project.

STRUCTURAL INSPECTION



Structural inspection is a critical aspect of all construction projects as it reinforces adherence to the structural design plans and details. Our engineers will visit the site during construction to ensure that the structural elements included in the design plans are being constructed and installed as designed.