

SEAU Recommended Minimum Requirements For Residential Submittal

Plans

- **Footing & Foundation Plan**
 - Footing sizes and reinforcement
 - Hold-down sizes and locations
 - Sill plate anchorage
 - Foundation wall size and reinforcing
- **Floor Framing Plans**
 - Beam & joist sizes and spacing
 - Column sizes
 - Lateral bracing element locations and sizes
 - Lateral vertical floor ties (hold-downs)
 - Connection callouts or detail references
 - Collectors and struts
 - Design loads
- **Roof Framing Plans**
 - Beam & joist size and spacing
 - Column sizes
 - Lateral bracing element locations and size
 - Connection callouts or detail references
 - Collectors and struts
 - Design loads
- **Details**
 - General structural notes denoting material strengths/grades and general structural requirements
 - Shearwall schedules (or show information on details i.e. A35, anchorage, shearwall sheathing and nailing)
 - Basic shear transfer details from horizontal to vertical diaphragms
 - Non-standard details (i.e. steel and masonry)
 - Connections

Calculations

- **Gravity Design**
 - Footings
 - Foundation wall reinforcement
 - Columns
 - Beams, headers and joists
 - Drift, impact, eave and unbalanced snow loading
 - Exterior stud walls if $h > 10'$ or heavily loaded
- **Lateral Design**
 - Determination of redundancy ρ
 - Seismic base shear calculations
 - Wind base shear calculation
 - Shearwall design based on controlling lateral force case
 - Collector and diaphragm design
 - Hold-down design at foundation and intermediate floor lines
 - Shear transfer design between horizontal and vertical diaphragms
 - Shear transfer design to foundation system
 - Provide design and input criteria along with key plans as needed for computer analysis along with the appropriate output