

**STRUCTURAL NOTES:**

**CODE:** Comply with the 2012 International Residential Building Code.

**DESIGN LOADS:**

Dead Loads: Roof = 15.0 psf, Floors = 10.0 psf.  
Live Loads: Roof = 45.0 psf (Plus Drift), Floor = 40.0 psf.  
Wind Load: Building = 31.0 psf

**FOUNDATIONS:**

1. Bear footings on firm, undisturbed dense native soil at 4'-6" minimum below lowest adjacent finish or natural grade, whichever ever is lower.
2. Assumed soil bearing pressure = 2,000 psf.
3. Place foundation concrete only on clean, firm, dry bearing material.
4. Engineer shall be notified if stone ledge or marine clay is found during excavation.

**CONCRETE:**

1. Concrete regular weight (144 pcf) with Type II cement per ASTM C150, aggregate per ASTM C33, and potable water. Aggregate size = 1" maximum for footings. Minimum compressive strength = 3000 psi for foundations.

**REINFORCING:**

1. ASTM A 615-S1, Grade 60.
2. Lap splices in concrete: 42 bar diameters.

**STEEL:**

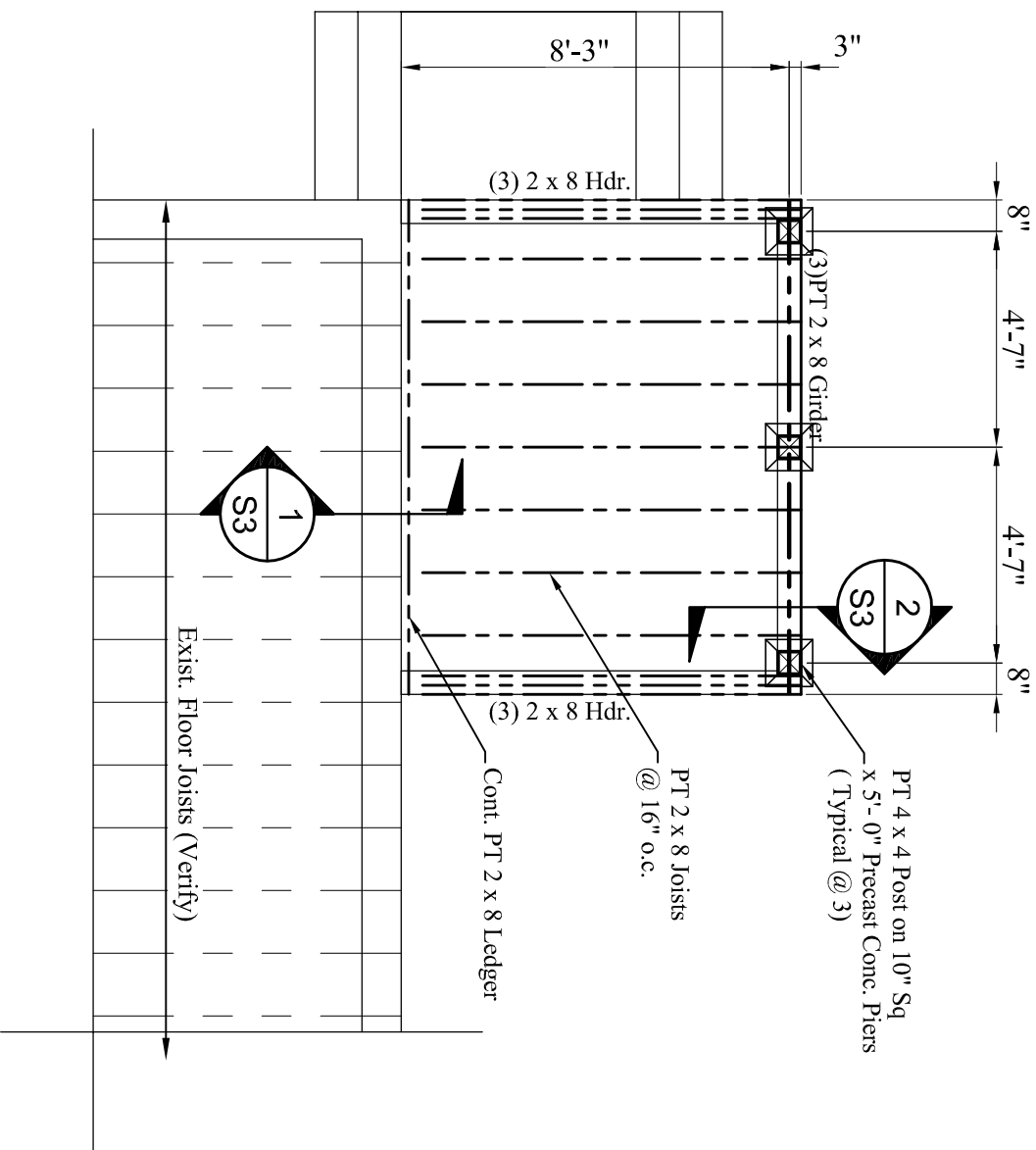
1. Steel Lally Columns: ASTM A513, Fy = 32 ksi. 16 gage steel filled w/ 3,000 psi conc.
2. Bolts and plain anchors: ASTM A 307.

**WOOD:**

1. General:
  - a. Each piece of lumber shall be "S-DRY" and bear the grade stamp of a grading rules agency approved by the ALSA.
  - b. Do not notch or drill joists, beams or load bearing studs without approval.
2. Connections:
  - a. Nail roof plywood with 8d common at 6" o.c. at all edges and boundary members and 10" o.c. at intermediate supports.
  - b. Glue floor plywood to all framing members and nail with 8d common at 6" o.c. at all plywood edges and boundary members and 10" o.c. at intermediate supports.
  - c. Nail wall plywood with 10d common nails at 6" o.c. at all edges and boundary members and 12" o.c. at intermediate supports.
3. Structural Sawn Lumber:
  - a. 2 x 6 thru 2 x 14 joists: Spruce Pine Fir No. 2 with Fb (repetitive) = 1200 p.s.i.
  - b. Studs: Spruce Pine Fir No. 2 with Fb (repetitive) = 1200 p.s.i.
  4. Laminated Veneer Lumber (LVL): Fb = 2800 psi, Fv = 285 psi, E = 2,000 ksi.
5. Plywood:
  - a. Roof Sheathing: C-D INT-APA (PSI-94) with exterior glue; 1/2" with Identification Index 48/24. Lay up with face rain perpendicular to supports. Stagger joints. Each plywood piece to be continuous over a minimum of two spans with a minimum width of 1'-0" unless blocking is provided at all joints.
  - b. Sub-flooring: C-D INT-APA (PSI-94) with exterior glue; 3/4" with Identification index 48/24. Lay up with face grain perpendicular to supports. Stagger joints. Each plywood piece to be continuous over a minimum of two spans with a minimum width of 1'-0" unless blocking is provided at all joints.
  - c. Wall Sheathing: C-D INT-APA (PSI-74) with exterior glue, 1/2" with Identification Index 24/0. All panel edges backed with 2" nominal or wider framing.

**SUPPLEMENTARY NOTES:**

1. Verify all dimensions and conditions with architectural drawings prior to starting work. Notify the Engineer of any discrepancies or inconsistencies.
2. Provide all necessary temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction.



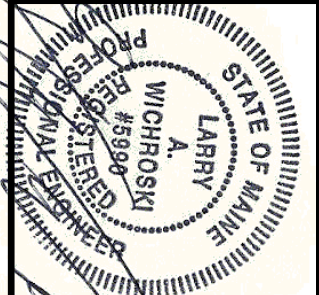
**Partial Foundation/Floor Framing Plan**

Scale: 1/4" = 1'-0"

**Axelson Residence Remodel**  
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Revisions:

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Design By:	Larry Wichroski, P.E.
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