











# STRUCTURAL NOTES:

CODE: Comply with the 2003 International Building Code.

# **DESIGN LOADS:**

Wind Load: Building Dead Loads: Roof = 15.0 psf., Floor = 10.0 psf. Live Loads: Roof = 45.0 psf (Plus Drift), Floor = 40.0 psf. Wind Load: Building = 28.0 psf

- FOUNDATIONS: Bear footings on firm, undisturbed dense native soil at 4"-0" minimum below lowest
- adjacent finish or natural grade, which ever is lower. Assumed soil bearing pressure = 2,000 psf.
- Place foundation concrete only on clean, firm, dry bearing material.

  Engineer shall be notified if stone ledge or marine clay is found during excavation.

## CONCRETE:

Concrete regular weight (144 pcf) with Type II cement per ASTM C150, aggregate per ASTM C33, and potable water. No fly-ash permitted in floor slab. Aggregate size = 1 maximum for footings and slab. Minimum compressive strength = 3000 psi for foundations and slab on grade and 4,000 psi for exterior slabs and sidewalks. 1,

## REINFORCING:

- ASTM A 615-S1, Grade 60 except #2 and #3 bars ASTM A615-S1: Grade 40.
- Lap splices in concrete: 42 bar diameters.

  Provide bent corner reinforcing to match and lap with horizontal reinforcing at corners and intersections of walls, and footings.

### WOOD:

## 1. General: a. Eac

- Each piece of lumber shall be "S-DRY" and bear the grade stamp of a grading rules agency approved by
- the American Lumber Standards Committee. Double up studs at jambs and under beams.
- Do not notch or drill joists, beams or load bearing studs without approval.
- а. Nail roof plywood with 8d common at 6" o.c. at all edges and boundary members and 10" o.c.
- <u>ь</u>. intermediate supports.
- 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.

  Nail wall plywood with 10d common nails at 6" o.c. at all edges and boundary members and 12" o.c. at
- intermediate supports.

- Plywood: 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.
  Laminated Veneer Lumber (LVL): Fb = 2800 psi, Fv = 285 psi, E = 2,000 ksi

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- Roof Sheathing: C-D INT-APA (PSI-94) with exterior glue; 1/2" 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.

  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.

  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 c and conditions in field and with architectural drawings prior to starting work. Notify
- the Engineer of any discrepancies or inconsistencies.

  Provide all necessary temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction.

2.

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at



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**NOTES & DETAILS** 

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