## GENERAL NOTES CONTINUES

### NAILING SCHEDULE – TABLE 2304.9.1

The connections listed are the minimum permissible. Use common wire nails for all nailed connections. Where possible, nails driven perpendicular to the grain shall be used instead of toe nails.
Nailing shall comply with 2007 C.B.C. Table 2304.9.1

| | |
|---|---|
| Joist or rafters to sides of studs | |
| 8 inch joint or less | 3–16d |
| For each additional 4 inches in depth of joist | 1–16d |
| Bridging to joist, toenail each end | 2–8d |
| a. Blocking between joist or rafter– to joist or rafters– toenails each side, each end | 2–10d |
| b. Blocking between studs, each end | 2–10d toenails or 2–16d |
| 1" x 6" subfloor or less to each joist, face nail | 2–8d |
| Wider than 1" x 6" subfloor to each joist, face nail | 3–8d |
| Sole plate to joist or blocking: | |
| Face nail | 16d at 16" |
| Braced wall panels | 3–16d per 16" |
| Top plate to stud, end nail | 2–16d |
| Stud to sole plate: Toenail | 4–8d |
| End nail | 2–16d |
| Double studs, typical face nail | 16d at 24" |
| Doubled top plates: Face nail | 16d at 16" |
| Lap splice | 8–16d |
| Blocking between joists or rafters to top plate toe nails | 3–8d |
| Rim joist to top plate, toenail | 8d at 6" |
| Top plates, laps and intersections, face nail | 2–16d |
| Continuous header, two pieces (along each edge) | 16d at 16" |
| Ceiling joists to plate, toenail | 3–8d |
| Continuous header to stud, toenail | 4–8d |
| Ceiling joists, laps over partitions, face nail | 3–16d |
| Ceiling joists to parallel rafters, face nail | 3–16d |
| Joist or rafter at all bearings, toe nail, each side | 2–10d |
| 1" brace to each stud and plate, face nail | 2–8d |
| 1" x 8" sheathing or less to each bearing, face nail | 2–8d |
| Wider than 1" x 8" sheathing to each bearing, face nail | 3–8d |
| Built–up corner studs | 16d at 24" |
| Built–up girders and beams | 20d at 32" at lap at bottom and staggered 2–20d at ends and at each splice |

PLYWOOD SHEAR WALLS:
1. All exterior walls to be sheathed.
2. Min. nailing & plywood thickness to be per shear wall type U.N.O. See schedule.

### AUTOMATIC END WELDED STUDS

1. Automatic end welded studs shall be Nelson Granular Flux–filled Shear Connector or Anchor Studs (or approved equal). Studs shall be manufactured of C–1015 cold rolled steel which conforms to ASTM Specifications A–108–58–T.
2. The studs shall be automatically end welded in accordance with the manufacturer's recommendations in such a manner as to provide complete fusion between the end of the stud and the plate. There should be no porosity or evidence of lack of fusion between the welded end of the stud and the plate. The stud shall decrease in length during welding approximately 1/8" for 5/8" and under and 3/16" for over 5/8" diameter. Welding shall be done only by qualified welders approved by the welding inspector.
3. Inspection, in accordance with Title 24, Chapter 17, of all the shop and field welding operations for the automatic end welded studs shall be made by a qualified welding inspector (approved by the City). The type and capacity of the welding equipment shall be in accordance with the manufacturer's recommendations and shall be checked and approved be a welding inspector.

   At the beginning of each day's work, a minimum of two test stud welds shall be made with the equipment to be used to metal which is the same as the actual work piece. The test studs shall be subjected to a 90% bend test by striking them with a heavy hammer. After the above test, the weld section shall not exhibit any tearing out or cracking.

   Testing of end–welded studs shall be in accordance with Section 2212.3, Part 2, Title 24.

### POWDER ACTUATED FASTENERS

1. All powder actuated fasteners shall be approved for type, application and installation and shall have an approved ICC research report number.
2. The use of powder driven fasteners, in tension, is limited to support of minor loads such as acoustical ceilings, duct work, conduit, etc. In general, load should be limited to less than 100 pounds unless approved by the Structural Engineer.
3. Fasteners shall not be installed until the concrete has reached its designated strength.
4. Fasteners shall not be installed in concrete whose thickness is less than three times the penetration required, except 1 1/8" penetration in 3 1/4" thick floor slab is acceptable.
5. The minimum distance from the edge of concrete to center of anchor is 3 inches.
6. Fasteners in the underside of concrete slabs on metal decking shall be placed in the thick portion of the slab.
7. Fasteners shall be installed, by a prequalified operator, according to the ICC research report and tested as follows: Inspector shall observe the testing of the first 10 fastener installations. A test "pull–out" load of not less than twice the design load, or 200 pounds, whichever is greater, shall be applied to the pin in such a manner as not to resist the spalling tendency of the concrete surrounding the pin.
   Random tests under the project inspector's supervision shall be made of approximately 1 in 10 pins, except when the design load is 100 pounds, one half of the pins shall be tested. Should failure occur on any pin tested, all of the next 20 installations must be tested and unfair pins replaced.
8. When installing powder driven pins in existing non–prestressed reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. Maintain a minimum clearance of one inch between the reinforcement and the pin.

### SPECIAL INSPECTION:

1. ALL STRUCTURAL FIELD WELDING
2. EPOXY ANCHOR
3. CONCRETE (DESIGN STRENGTH OVER 2500 psi)
4. EXCAVATION & COMPACTION (By Geotechnical Engineer)
5. MASONRY

### ABBREVIATIONS

| | |
|---|---|
| ø | Diameter |
| # | Number or Pounds |
| @ | At |
| ℄ | Center Line |
| A.B. | Anchor Bolt |
| Anch. | Anchor |
| Arch'l. | Architectural |
| B.O.F. | Bottom of Footing |
| Bm. | Beam |
| Bott. | Bottom |
| Btwn. | Between |
| Cant. | Cantilevered |
| Clr. | Clear |
| Col. | Column |
| Conc. | Concrete |
| Cont. | Continuous |
| Det. | Detail |
| Dim. | Dimension |
| Dwg. | Drawing |
| Dwl. | Dowel |
| E.F. | Each Face |
| E.W. | Each Way |
| Ea. | Each |
| El. | Elevation |
| Elect'l. | Electrical |
| Elev. | Elevator or Elevation |
| (E) | Existing |
| Exp. | Expansion |
| Extr. | Exterior |
| F.O.C. | Face of Concrete |
| F.O.F. | Face of Finish |
| F.O.S. | Face of Stud |
| F.O.W. | Face of Wall |
| Fdn. | Foundation |
| Fin. | Finish |
| Flr. | Floor |
| Frmg. | Framing |
| Ftg. | Footing |
| Ga. | Gauge |
| Galv. | Galvanized |
| Gr.Bm. | Grade Beam |
| H.S.B. | High Strength Bolt |
| Horiz. | Horizontal |
| Intr. | Interior |
| Jt. | Joint |
| Max. | Maximum |
| Mech'l. | Mechanical |
| Mfr. | Manufacturer |
| Min. | Minimum |
| Mtl. | Metal |
| (N) | New |
| N.I.C. | Not in Contract |
| N.T.S. | Not to Scale |
| No. | Number |
| O.C. | On Center |
| O.H. | Opposite Hand |
| Pl. | Plate |
| Plcs. | Places |
| Reinf. | Reinforcing |
| Sched. | Schedule |
| Sect. | Section |
| Sep'n. | Separation |
| Sim. | Similar |
| Spec. | Specification |
| Sq. | Square |
| Std. | Standard |
| Stiff. | Stiffener |
| Stl. | Steel |
| Suppt. | Support |
| Sym. | Symmetrical |
| T.O. | Top of |
| T.O.S. | Top of Steel |
| T.O.W. | Top of Wall |
| Thk. | Thick |
| Typ. | Typical |
| U.N.O. | Unless Noted Otherwise |
| V.O.J. | Verify on Job |
| V.O.S. | Verify on Site |
| Vert. | Vertical |
| W/ | With |
| Wt. | Weight |

### LEGEND

MATERIALS

Earth
Concrete– Poured in Place
Metal Stud
Steel
Gravel
Grout or Drypack
Masonry
Concrete
Continuous Wood Member
Wood Blocking
Welded Wire Fabric
Footing Step
Drain / Overflow — OR
Moment Connection
Strut Brace
Hole In Beam
Full Height Connection Plate
Bent Beam
Number of Shear Studs on Beam — (8)
Slab Depression — 6"
Top of Steel Framing Elevation above 1st Floor Elevation 0'–0" (Maintain constant slope) — 16'–0"
Detail
Section
Elevation
Bld'g. Section
Wall Section


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# PERRIS VALLEY Big League Dreams

2155 Trumble Road
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SHEET TITLE

100% CONSTRUCTION DOCUMENT

| DATE | REVISIONS |
|---|---|
| | |

STAMP

REGISTERED PROFESSIONAL ENGINEER
SORY C. TSANG
No. S2992
Exp. 06/30/2010
STRUCTURAL
STATE OF CALIFORNIA

| CHECKED BY | DATE |
|---|---|
| SY | . |
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