TABLE “A”
DECK JOIST SPANS
(DOUGLAS FIR #2 OR BETTER)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>SPACING</th>
<th>SPAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x6</td>
<td>12” O.C.</td>
<td>10’-6”</td>
</tr>
<tr>
<td></td>
<td>16” O.C.</td>
<td>9’-0”</td>
</tr>
<tr>
<td>2x8</td>
<td>24” O.C.</td>
<td>7’-6”</td>
</tr>
<tr>
<td></td>
<td>12” O.C.</td>
<td>14’-0”</td>
</tr>
<tr>
<td></td>
<td>16” O.C.</td>
<td>12’-0”</td>
</tr>
<tr>
<td>2x10</td>
<td>24” O.C.</td>
<td>9’-6”</td>
</tr>
<tr>
<td>2x12</td>
<td>24” O.C.</td>
<td>12’-0”</td>
</tr>
<tr>
<td>4x6</td>
<td>24” O.C.</td>
<td>14’-0”</td>
</tr>
<tr>
<td>4x8</td>
<td>24” O.C.</td>
<td>15’-0”</td>
</tr>
<tr>
<td>4x10</td>
<td>32” O.C.</td>
<td>15’-0”</td>
</tr>
</tbody>
</table>

TABLE “B”
HEADER SIZING & SPANS
(DOUGLAS FIR #2 OR BETTER)

<table>
<thead>
<tr>
<th>JOIST SPAN</th>
<th>HEADER</th>
<th>SIZE</th>
<th>SPAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPTO 8’-0”</td>
<td>4x8</td>
<td>8’-0”</td>
<td></td>
</tr>
<tr>
<td>8’-1”-10’-0”</td>
<td>4x8</td>
<td>7’-0”</td>
<td></td>
</tr>
<tr>
<td>10’-1”-12’-0”</td>
<td>4x8</td>
<td>7’-0”</td>
<td></td>
</tr>
<tr>
<td>12’-1”-15’-0”</td>
<td>4x4</td>
<td>6’-0”</td>
<td></td>
</tr>
</tbody>
</table>

TABLE “C”
LEDGER BOLT SPACING
(3/8 DIA. X 6” LAG BOLTS — SEE NOTE 1)

<table>
<thead>
<tr>
<th>DECK JOIST SPAN</th>
<th>SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’-0” OR LESS</td>
<td>8” O.C.</td>
</tr>
<tr>
<td>8’-1” TO 12’-0”</td>
<td>6” O.C.</td>
</tr>
<tr>
<td>10’-1” TO 15’-0”</td>
<td>5 1/2” O.C.</td>
</tr>
<tr>
<td>12’-1” TO 14’-0”</td>
<td>4 1/2” O.C.</td>
</tr>
</tbody>
</table>

NOTES:
1. LEDGER BOLTS SHALL BE 3/8” DIA. X 6” LONG WITH 1/4” DIA. PRE DRILLED HOLES. BOLTS ARE TO BE PLACED STAGGERED.
2. ALL METAL HARDWARE & SCREWS TO BE GALVANIZED OR OF OTHERWISE APPROVED CORROSION RESISTANCE.
3. MAXIMUM 5’ JOIST SPAN IF 2ND FLOOR IS CANTILEVERED AT LEDGER.
4. SHEAR WALLS MAY NOT BE MODIFIED UNLESS STRUCTURAL CALCULATIONS ARE SUBMITTED AND APPROVED BY THE BUILDING DEPARTMENT.
5. USE OF THIS STANDARD IS LIMITED TO R3 OCCUPANCIES (SINGLE FAMILY DWELLINGS AND DUPLEXES).

DISCLAIMER:
ALTERNATE DECK DESIGNS MAY BE POSSIBLE WHEN PROVIDED WITH AN ENGINEERED ANALYSIS. USE OF THIS CONVENTIONAL STANDARD DESIGN IS AT THE USER’S RISK AND CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS.

City of Pomona
BUILDING AND SAFETY DIVISION
BALCONY/DECK STANDARD
505 South Garvey Ave
Pomona, CA 91769
(909) 620-2371
FAX (909) 620-2180
06/01/2015
POMONA, CA 91769
PAGE 1 OF 4
**Knee Brace Detail A**

**End Posts**

**Interior Posts**

**Notch Detail (Typical)**

**NOTE:**
1. End posts require single knee brace. All interior posts to have double braces.

---

**Ledger Detail B**

**FLOOR JOIST**

**LEDGER:** (same depth as joists or deeper)

**Joist Hanger (sized to joist)**

**SECTION VIEW**

**FOR BOLT SIZE & SPACING SEE TABLE "C"**

**NOTE:** This deck connection detail is based on the assumption that a minimum 1-1/2" thick wood member is adequately installed at all edges of the 2nd floor diaphragm. If any other material is used, such as TJ1 joists, a special engineered design will be required. It is the owner’s responsibility to verify the presence of the appropriate rim joist.

---

**Footing Detail C**

**MIN 4 X 4 POST**

**1" STANDOFF FROM CONCRETE TO POST**

**COLUMN BASE USE SIMPSON C850, PBS OR EQUAL**

**MACHINE BOLTS PER MANUFACTURER'S SPECIFICATIONS**

**18" DEEP**

**24" SQUARE**

---

**City of Pomona**

**Building and Safety Division**

**Balcony/Deck Standard**

505 South Garvey Ave

Pomona, CA 91769
Railing, Post, & Beam Detail

Option #1
- 36" maximum

Option #2
- 36" maximum

(2) #8 x 3" deck screws @ ea. 4x4

(1) #8 x 3" deck screw @ ea. 2x2

(2) #8 x 3" deck screws @ ea. 2x2

(2) ½" Dia. Machine bolts w/ nuts & washers @ each 4x4

24" max overhang

Post cap with machine bolts per manufacturer's specifications

All openings in guardrail to be such that a 4" sphere cannot pass through.

(2) ½" Dia. Machine bolts @ each post see detail E

Railing Section Views

Guardrail Perpendicular to Joists

Guardrail Parallel to Joists

Decking Options:
- See notes below

Floor Joists

Simpson "A35" or equal @ ea. block

Simpson "H3" or equal @ 48" o.c.

Boundary nailing @ 6" o.c. (see notes below for nail sizes)

Decks: 2x6" decking secured w/ (2) 16d nails @ ea. joist.

NOTE: Decking options are as follows:
1. 5/8" tongue and groove jointed plywood secured with 8d nails. All edge nailing at 6" O.C. Must be covered with an approved weather resistant material walking surface, and sloped for drainage.
2. 2x6" decking secured w/ (2) 16d nails @ ea. joist.

City of Pomona
Building and Safety Division
Balcony/Deck Standard
505 South Garvey Ave
Pomona, CA 91769
(909) 620-2371
Fax (909) 620-2180
06/01/2015
Page 3 of 4
NOTES:
1. THE TOLERANCE BETWEEN THE LARGEST AND SMALLEST TREAD DEPTH OR BETWEEN THE LARGEST AND SMALLEST RISER HEIGHT SHALL NOT EXCEED 3/8" IN THE STAIRWAY.
2. STAIRWAY WIDTH 36" MIN -- 48" MAX
3. TREADS MUST HAVE APPROVED SLIP RESISTANT SURFACE
4. ALTERNATE STAIRWAY DESIGNS MAY BE ACCEPTABLE PENDING BUILDING DEPARTMENT APPROVAL
5. LIGHTING LEVEL AT ALL STAIR TREADS TO BE A MINIMUM OF 1 FOOT-CANDLE

HANDRAIL DETAILS

NOTE: OTHER SHAPES MAY BE ACCEPTABLE IF THEY PROVIDE AN EQUIVALENT GRIPPING SURFACE.

These designs are not acceptable.

City of Pomona
Building and Safety Division

Balcony/Deck Standard

505 South Garvey Ave
Pomona, CA 91769

(909) 620-2371
FAX (909) 620-2180

06/01/2015