



Community Development Department
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STANDARD DETAILS FOR SECOND STORY DECKS

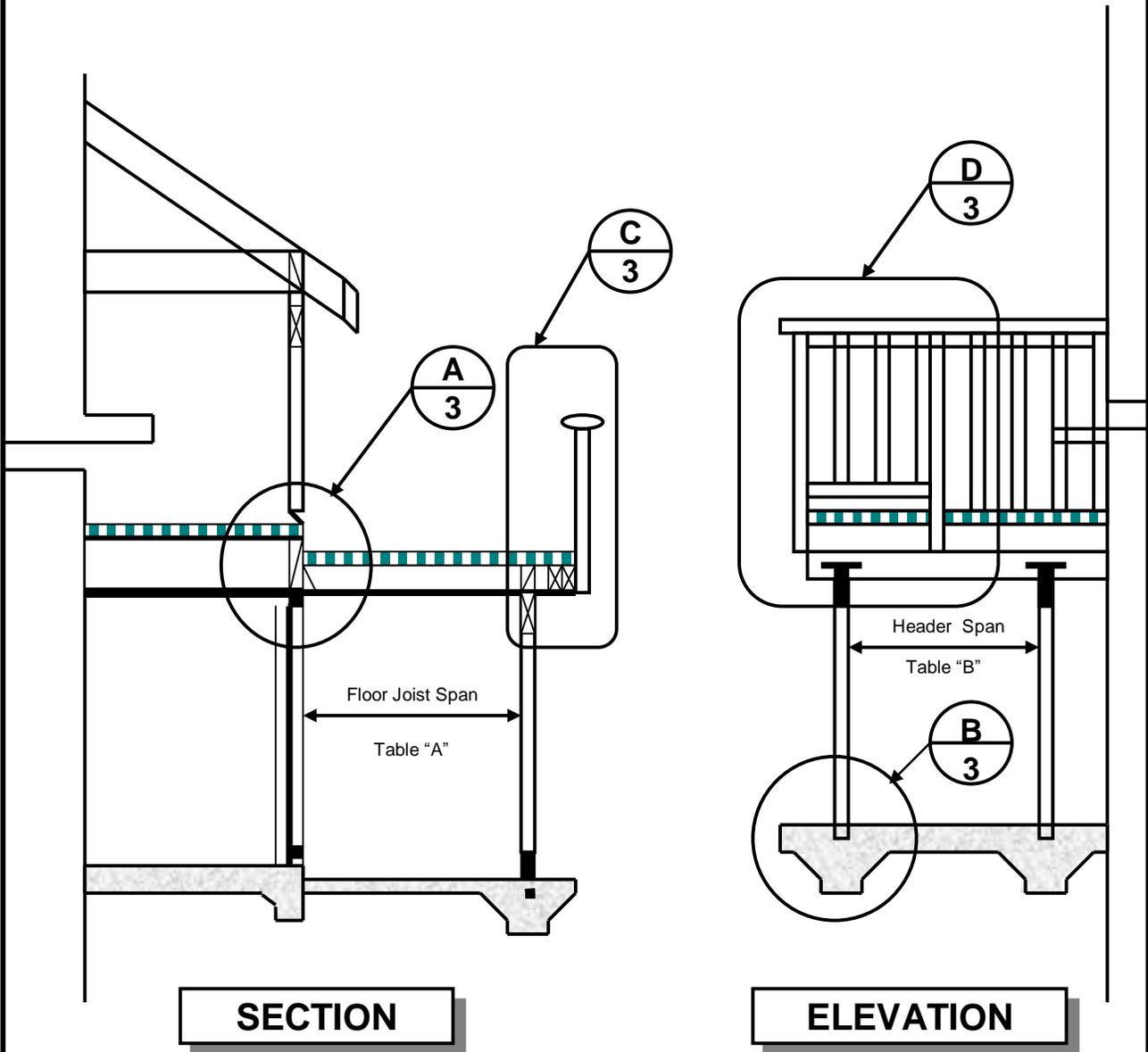
Pre-engineered details for a second story deck that is attached to a residential structure.

In order to use this pre-engineered standard **no deviation** from this handout will be allowed. For example but not limited to cantilevered second floors, structure or window pop-outs, or ledgers extended beyond the structure.

Provide a plot plan. See handout for "How to prepare a residential plot plan".

SUBMITTAL REQUIREMENTS

- Completed Building Permit Application
- Three (3) copies of plans prepared to a standard scale
- Complete sets of plans consist of the following:
 - Name of Property owner
 - Assessor parcel number, tract number, lot number
 - All property lines with dimensions
 - Drawn to scale
 - All structures, provide setback dimensions to all property lines (front, sides and rear)
 - Identify and show easements, *if any*
- Signed Carbon Monoxide/Smoke Detector Form (must be signed by the **HOMEOWNER**, not the contractor)
- Circle items on Tables A, B, and C on the following pages.
- Cash or check to pay plan check fees. No cards are accepted.



SECTION

ELEVATION

TABLE "A": Floor Joist Span Table

Floor Joist "Size"	Floor Joist "Spacing"	Floor Joist "Span"	Floor Joist "Size"	Floor Joist "Spacing"	Floor Joist "Span"
2 x 6	12" o.c.	10' - 6"	4 x 4	12" o.c.	6' - 0"
	16" o.c.	9' - 2"		32" o.c.	
	24" o.c.	7' - 6"		48" o.c.	
2 x 8	12" o.c.	14' - 0"	4 x 6	24" o.c.	10' - 0"
	16" o.c.	12' - 0"		36" o.c.	9' - 0"
	24" o.c.	9' - 8"		48" o.c.	8' - 0"
	32" o.c.	9' - 0"	4 x 8	24" o.c.	14' - 0"
	36" o.c.	8' - 0"		36" o.c.	12' - 0"
				48" o.c.	10' - 0"
2 x 10	16" o.c.	15' - 5"	4 x 10	35" o.c.	15' - 0"
	24" o.c.	13' - 6"		48" o.c.	13' - 6"
	36" o.c.	10' - 0"			
	48" o.c.	8' - 10"			
2 x 12	24" o.c.	16' - 4"			
	32" o.c.	13' - 0"			
	36" o.c.	12' - 4"			
	48" o.c.	10' - 9"			
2 x 14	24" o.c.	19' - 3"			
	32" o.c.	15' - 6"			
	36" o.c.	14' - 8"			

TABLE "C": Ledger Bolting

Ledger bolts - (3/8 x 5" long) Staggered	
Floor Joist "Span"	Ledger Bolts "Spacing"
8' - 0"	8" o.c.
10' - 0"	7" o.c.
12' - 0"	6" o.c.
14' - 0"	5" o.c.
16' - 0"	4" o.c.

NOTES:

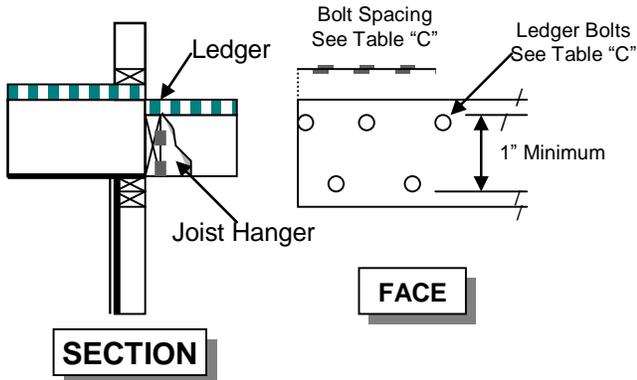
1. Live load design 60 p.s.f.
2. Metal hangers & connectors to be "Simpson Strong Tie" or approved equal.
3. Footing design 1000 p.s.f. max. soil pressure carry footings 12" min. into natural grade.
4. Concrete to be 2000 p.s.i. @ 28 days.
5. Lumber to be Douglas Fir No. 2 or better.
6. All lag bolts shall have pre-drifted pilot holes.
7. Homes with 2nd story cantilever projections do not apply to these standards and shall contact a California Registered Professional Engineer.

TABLE "B": Header Span (2'0" overhang)

Floor Joist "Span"	Header "Size"	Header "Span"	Footing "Size"
6' - 0"	4 x 6	6' - 0"	12" sq. x 18" deep
	4 x 8	9' - 0"	15" sq. x 18" deep
	4 x 10	10' - 0"	17" sq. x 18" deep
8' - 0"	4 x 8	9' - 0"	15" sq. x 18" deep
	4 x 10	10' - 0"	17" sq. x 18" deep
	6 x 8	11' - 0"	17" sq. x 18" deep
	6 x 10	14' - 0"	20" sq. x 18" deep
	6 x 12	16' - 0"	21" sq. x 18" deep
10' - 0"	4 x 8	7' - 0"	16" sq. x 18" deep
	4 x 10	9' - 0"	18" sq. x 18" deep
	4 x 12	11' - 0"	20" sq. x 18" deep
	6 x 8	10' - 0"	19" sq. x 18" deep
	6 x 10	12' - 0"	21" sq. x 18" deep
12' - 0"	4 x 8	7' - 0"	24" sq. x 18" deep
	4 x 10	8' - 0"	28" sq. x 18" deep
	4 x 12	10' - 0"	28" sq. x 18" deep
	6 x 10	11' - 0"	21" sq. x 18" deep
	6 x 12	13' - 6"	24" sq. x 18" deep
14' - 0"	4 x 10	7' - 0"	20" sq. x 18" deep
	4 x 12	8' - 0"	21" sq. x 18" deep
	4 x 14	10' - 0"	24" sq. x 18" deep
	6 x 14	12' - 0"	26" sq. x 18" deep
16' - 0"	4 x 10	8' - 0"	18" sq. x 18" deep
	4 x 12	10' - 0"	20" sq. x 18" deep
	4 x 14	13' - 0"	24" sq. x 18" deep

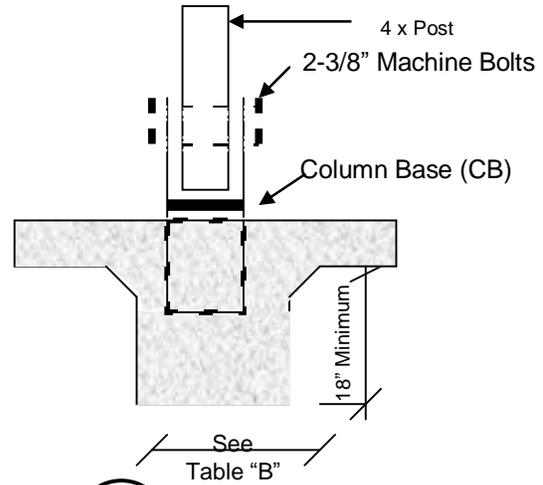
**CITY OF CHINO HILLS
BUILDING DEPARTMENT**

**SECOND STORY
DECK STANDARD**

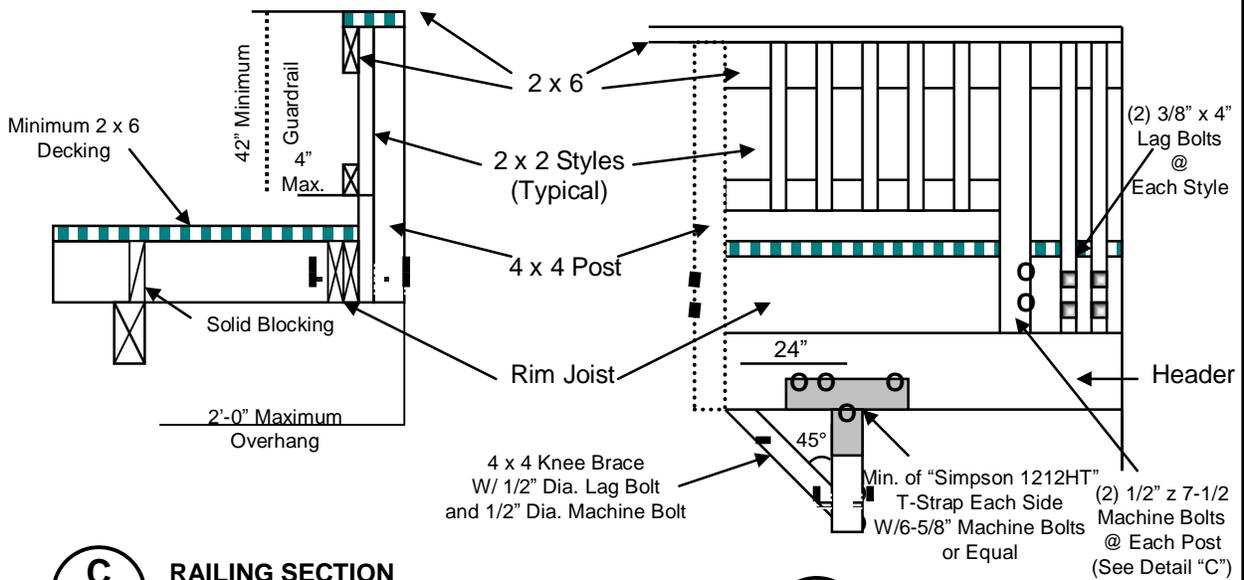
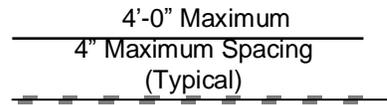


SECTION

A
3 LEDGER DETAILS



B
3 POST BASE FOOTING DETAIL



C
3 RAILING SECTION

D
3 RAILING / POST & BEAM CONNECTION