

# Span Table for Residential DECKS (40# Load)

## Maximum span of Joist between Supports

Joist Size	@ 16" on Center	@24" on Center
2" x 6"	9' 5"	7' 10"
2" x 8"	12' 5"	10' 1"
2" x 10"	15' 10"	13' 2"
2" x 12"	18' 3"	15' 3"

BEAM SIZES	POST to POST SPAN	
2-2" x 6"		6'
3-2" x 6"	2-2" x 8"	8'
3-2" x 8"	2-2" x 10"	10'
3-2" x 10"	2-2" x 12"	12"

## POST SIZE BASED ON HEIGHT ABOVE GRADE

Joist Size	4' High	6' High	8' High	10" High	12' High	14' High
2 x 6	4 x 4	4 x 4	4 x 6	4 x 6	6 x 6	6 x 6
2 x 8	4 x 4	4 x 6	4 x 6	6 x 6	6 x 6	6 x 6
2 x 10	4 x 6	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6
2 x 12	4 x 6	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6

## Post Hole Minimum Diameter 12"

### REQUIRED for APPLICATION

TWO (2) SETS OF PLANS

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INCLUDE LOCATION OF SEPTIC FIELD, WELL AND ALL  
DIMENSIONS OF DECK WITH DISTANCES TO ALL  
PROPERTY LINES AND TO THE EDGE OF EASEMENT  
PROOF OF OWNERSHIP-PROPERTY TRANSFER AFFIDAVIT  
DEVELOPER OR ASSOCIATION APPROVAL OF PLANS

### Required Inspections

Post Hole

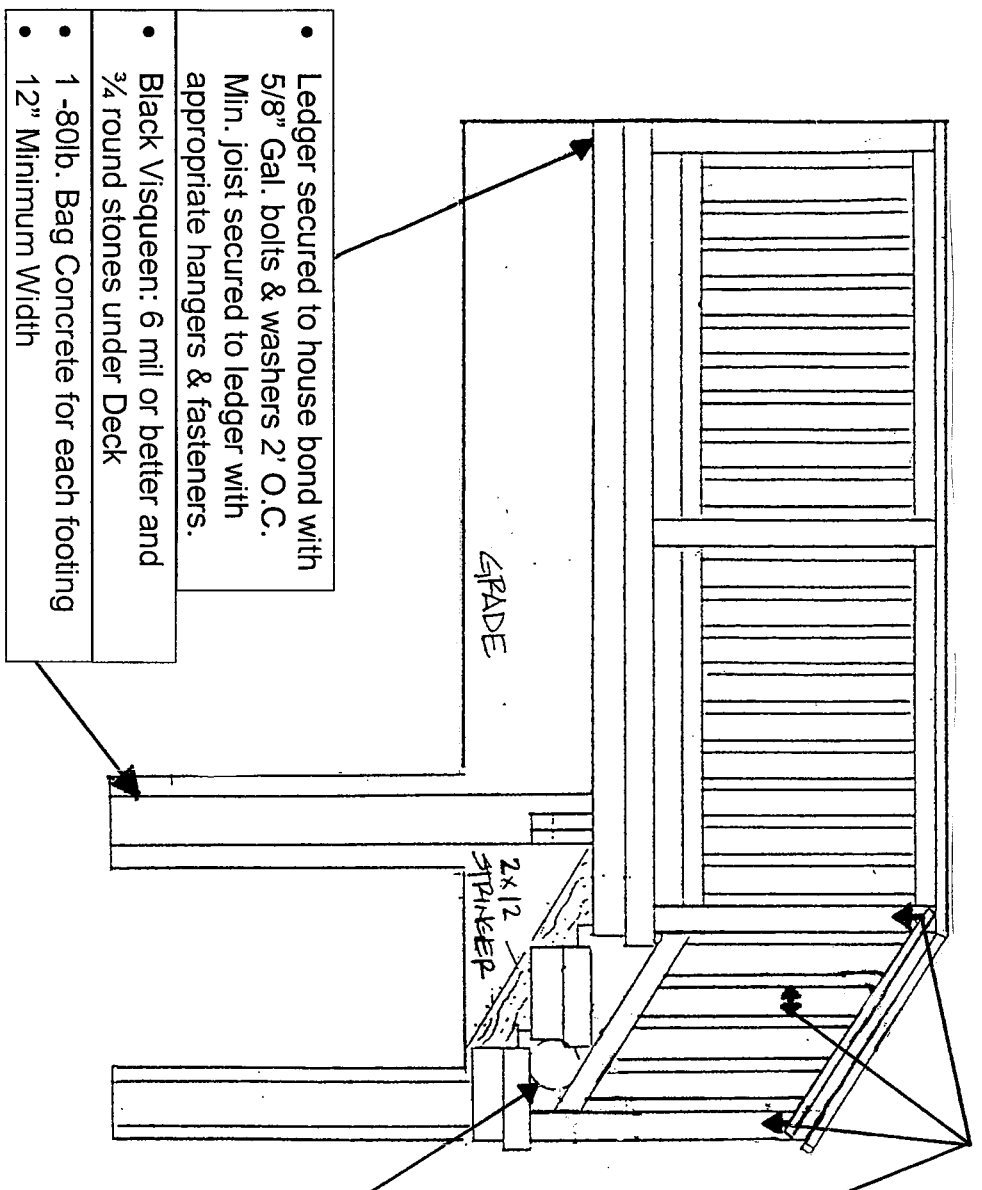
R-Frame (Roof or Enclosure)

Final

# DECK and RAILING Detail

Note: Substructure; Post Footings Beams; Joists and Stringers are wolmanized yellow pine.

Decking material: Facia; Railing; Steps and Benche's are Western Red Cedar (Unless otherwise specified)



- Ledger secured to house bond with 5/8" Gal. bolts & washers 2' O.C. Min. joist secured to ledger with appropriate hangers & fasteners.
- Black Visqueen: 6 mil or better and 3/4" round stones under Deck
- 1 -80lb. Bag Concrete for each footing
- 12" Minimum Width

Deck Height Above Grade  
 Upper Level: 9"  
 Lower Level: 7"

Beam Size: Double: 2 x 10  
 Spans: Upper Level: 2' to 8'  
Lower Level: 2x6 3' to 5'6"

Secured to Footing with 5" Galv. Lags

Joist Size: Spaced @ 16' O.C. 2 x 8  
 Spans: Upper Level: 3'6" to 9'6"  
Lower Level: 2x6 3'6" to 5'6"

Support with Galv. Joist Hangers

Post Footing Size: 4 x 6 & 6 x 6  
 Notched to Accept Beam  
 Deck Board Size: 2 x 4  
 Material: Cedar

Min 3'0 Rail Height with Spindles spaced less than 4" apart.

Graspable Handrail Min. 34" From Nosing with Brackets and Returns

MIN. 10" Run.

6" Sphere can not pass Through

Scale: 1/2 " = 1