

# Residential Deck Drawings

## General Notes

- All lumber shall be pressure treated for exterior use. All metal fasteners & hangers shall be G185 galvanized, stainless steel or otherwise compatible with the wood treatment. All bolts shall be 1/2" diameter, minimum and staggered.
  - All beams, joists, posts and decking shall be No. 2 Southern Pine, or better.
  - All beam splices and guard top rail splices shall occur at or on a post.
  - All footings shall be cast-in-place concrete with a min. 3000 psi compressive strength.
  - Guards are required at all areas where the deck/porch floor is greater than 30" above grade at any point.
  - Required guards shall be 36" tall (min.) and be constructed such that a 4" diameter object will not pass through.
  - Guard post spacing shall not exceed 6 ft. on center.
  - Required guards & handrails at stairs shall range from 34" to 38" vertically above the stair nosings.
  - Handrail ends, at the top and bottom, shall terminate into a post or be returned to a wall.
  - On stairs with closed risers, treads shall have a projected nosing ranging from 3/4" to 1-1/4". All treads and risers shall be equal.
- The deck/porch floor shall be within 8-1/4" of the top of the door threshold.
  - Live Load Deflection: Joists & Beams- L/360  
Guards- L/240
  - Design Loads: Floor Live Load - 40 lbs./sf (min.)  
Wind Speed - 90 mph  
Soil Bearing Pressure - 2000 psf  
Guards shall be designed for a 200 lb. concentrated load placed along the top rail in any direction, at any point.
  - This deck/porch is not designed for hot-tub or spa loading.
  - All exterior stairs & associated landings shall be illuminated.
  - Post size is based on the height of the deck floor above finished grade (at the highest point):  
0' to 8' high: 4x4, 4x6, 6x6  
over 8' to 10' high: 4x6, 6x6  
over 10' high: 6x6 (required for multi-level decks too)
  - All separated beams shall receive full depth solid blocking at 24" on center, maximum spacing.
  - The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval or new permit.*

## Framing/Footing Table

[1] Choose one floor joist size with the associated span, [2] Choose one floor beam size. Entire row applies.

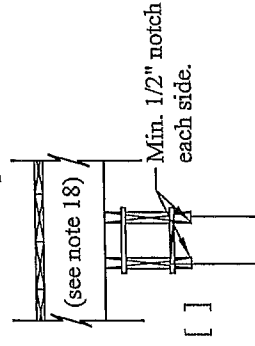
Floor Joists <sup>a</sup>		Floor Beams <sup>b</sup>		Footing Size			1/2" Ledger Board Bolts			
Choose Joist Size	Lumber Size (nominal)	Max. Span [A] (feet)	Choose One Row	Lumber Size (nominal)	Span [B] (feet)	Single-Span Floor Joists min. dia. [C] (inches)	min. thick [D] (inches)	Multi-Span Floor Joists min. dia. [C] (inches)	min. thick [D] (inches)	Spacing (inches)
[ ]	2 x 6	8	[ ]	(2) 2 x 6	5	12	6	15	8	24
[ ]	2 x 6	8	[ ]	(2) 2 x 8	7	12	6	16	8	24
[ ]	2 x 6	8	[ ]	(2) 2 x 10	9	12	6	18	9	24
[ ]	2 x 6	8	[ ]	(2) 2 x 12	11	12	6	20	10	24
[ ]	2 x 8	10	[ ]	(2) 2 x 8	7	12	6	20	10	16
[ ]	2 x 8	10	[ ]	(2) 2 x 10	9	12	6	22	11	16
[ ]	2 x 8	10	[ ]	(2) 2 x 12	10	12	6	22	11	16
[ ]	2 x 10	13	[ ]	(2) 2 x 10	8	14	7	24	12	16
[ ]	2 x 10	13	[ ]	(2) 2 x 12	9	14	7	26	13	16
[ ]	2 x 12	16	[ ]	(2) 2 x 12	8	16	8	28	14	12

a. Choose one joist size and corresponding maximum span. All joists are spaced a maximum of 16" oc.

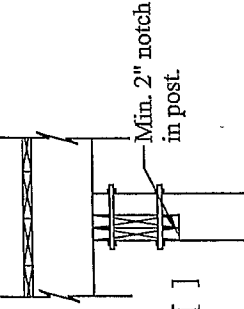
b. Choose one floor beam (entire row) that corresponds with the size of joist chosen.

## Beam to Post Connection Options

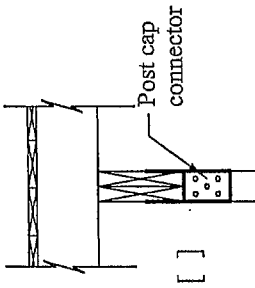
[3] Choose one beam to post connection option. [4] Choose one post size based on the height of the deck.



- [ ] 4x4 posts (up to 8')  
 [ ] 4x6 posts (up to 10')  
 [ ] 6x6 posts req'd over 10')



- [ ] 6x6 posts (only)



- [ ] 4x4 posts (up to 8')  
 [ ] 4x6 posts (up to 10')  
 [ ] 6x6 posts req'd over 10')

Property Owner:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Person Completing this Form: Contractor:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Application No. \_\_\_\_\_

Sheet No. \_\_\_\_\_

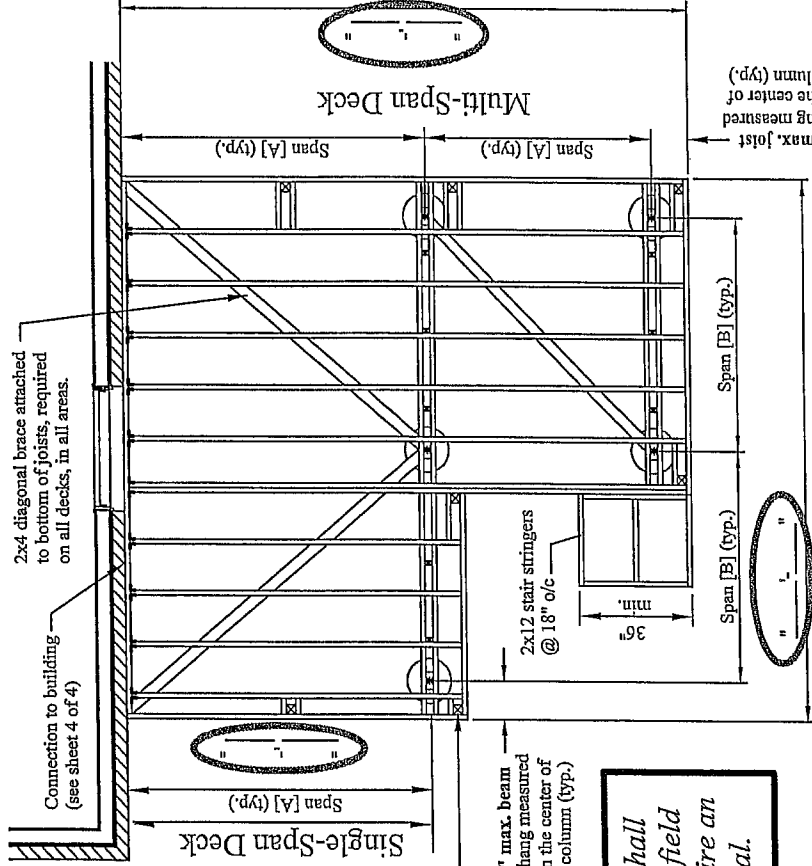
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# Foundation & Framing Plan

[5] Choose one span configuration:

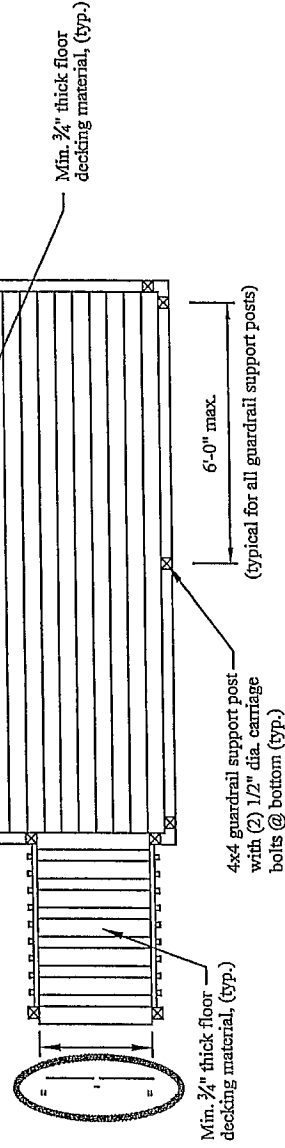
- Single-Span
- Multi-Span



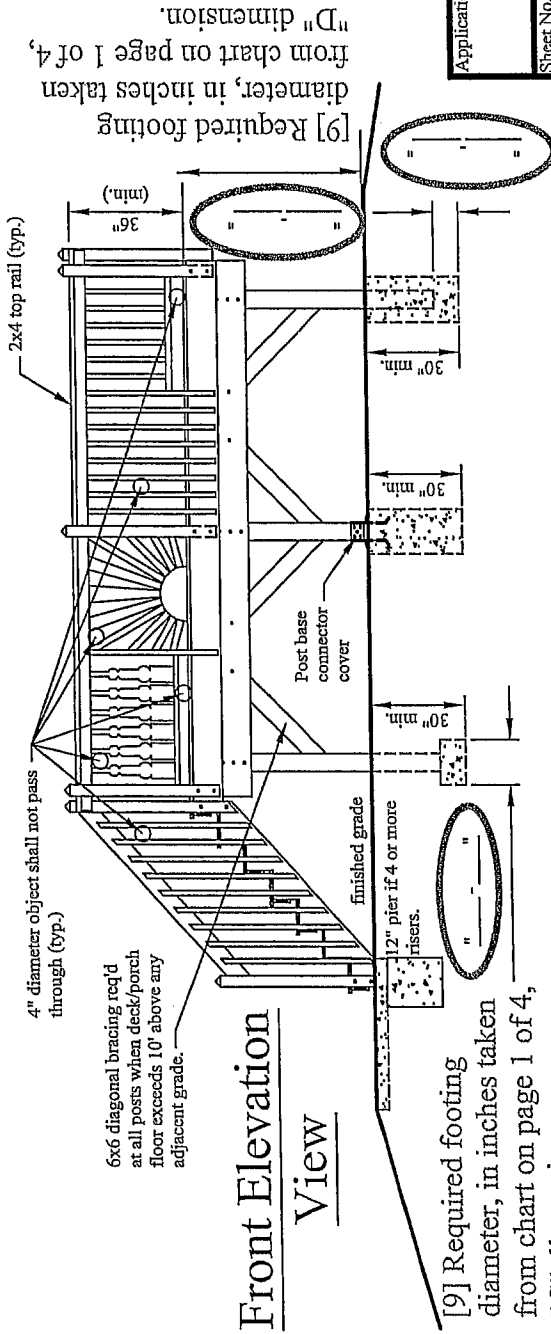
*The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.*

[7] Fill in this over-all deck dimension.

# Deck Finished Floor Plan



[8] Fill in the stair width, in inches (36" min.).



# Front Elevation View

[9] Required footing diameter, in inches taken from chart on page 1 of 4, "C" dimension.

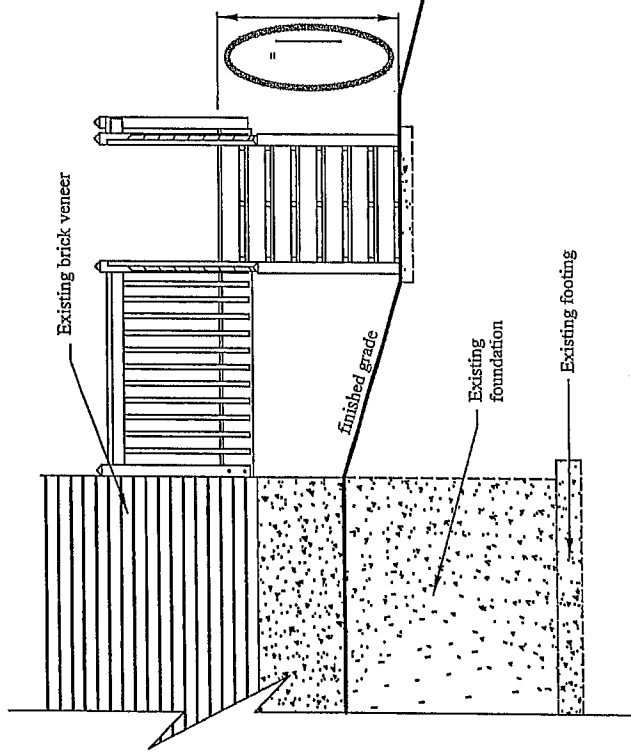
[10] Choose a footing option:

- Post on top of buried concrete footing
- Post attached to top of concrete footing
- Post on top of buried concrete footing

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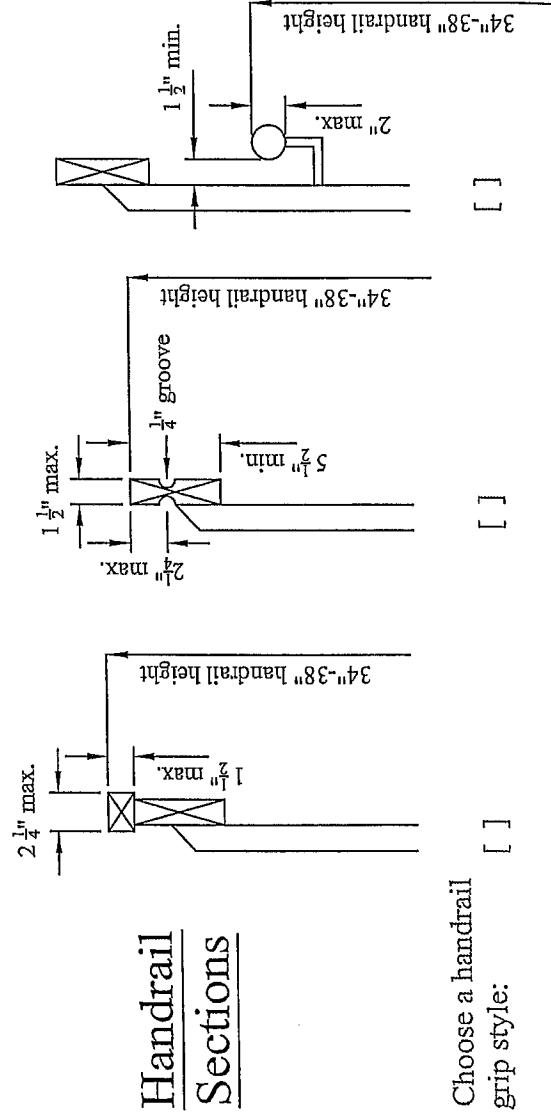
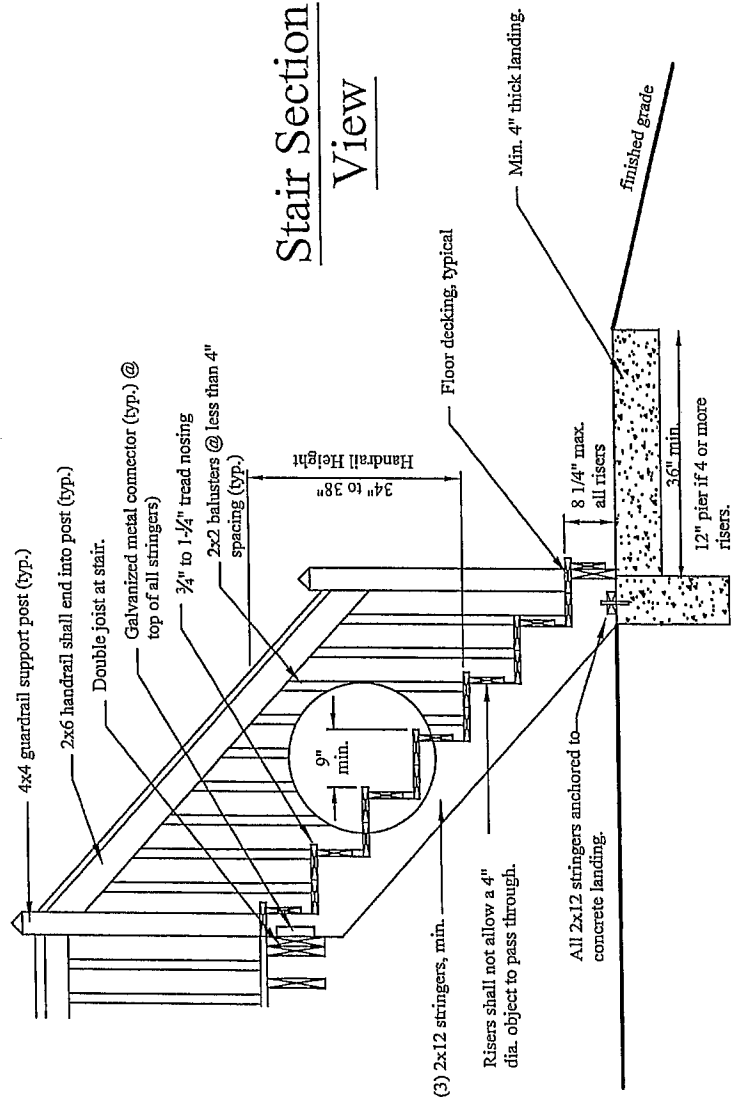
Sheet No.

## Left Side Elevation View



[11] Fill in the highest point above grade in inches.

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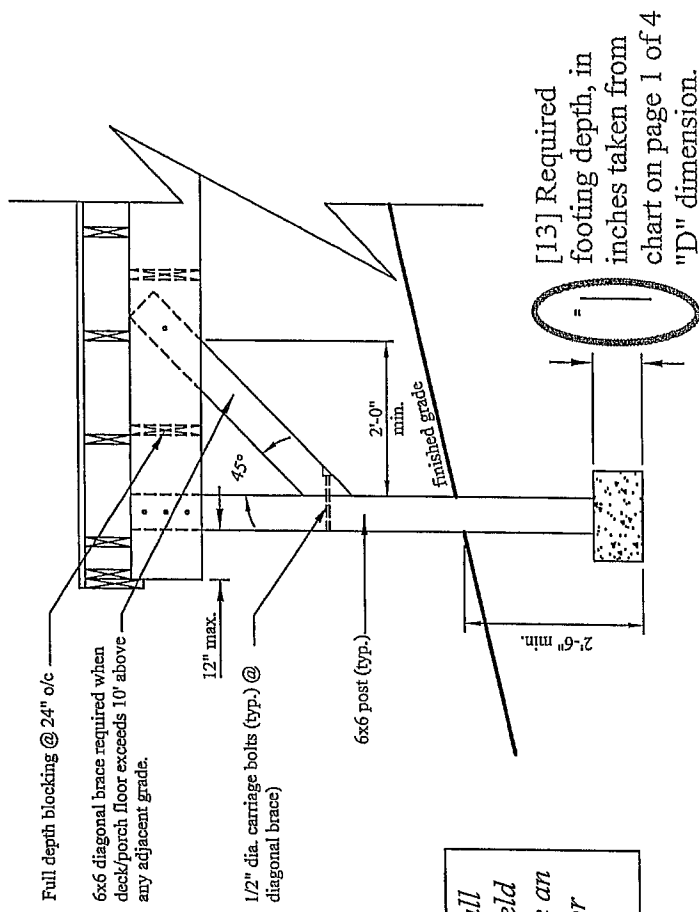


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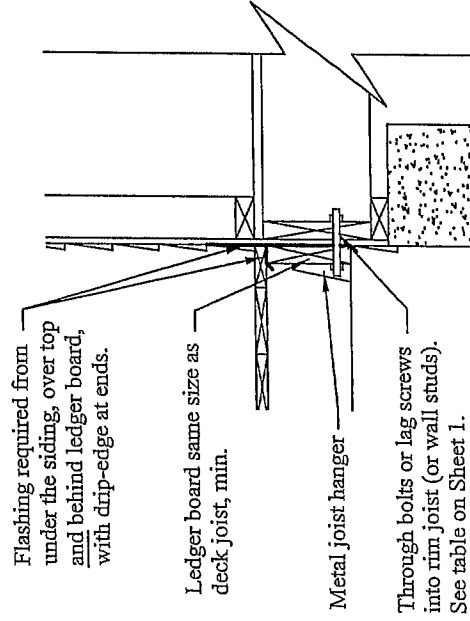
## Post & Beam Detail



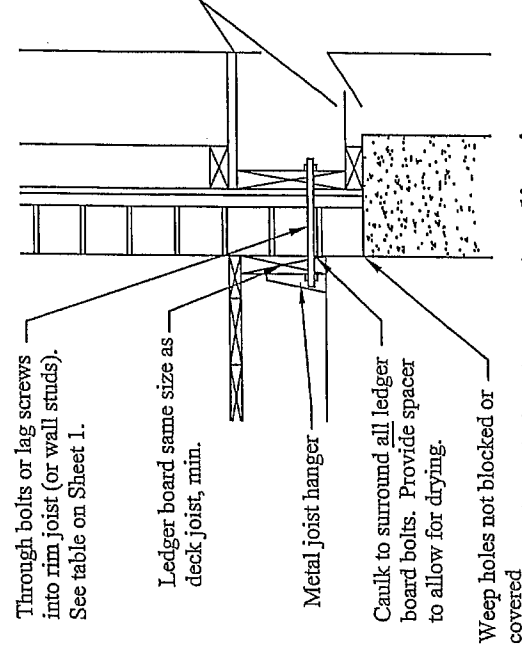
*The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval or new permit.*

## Ledger Board Details

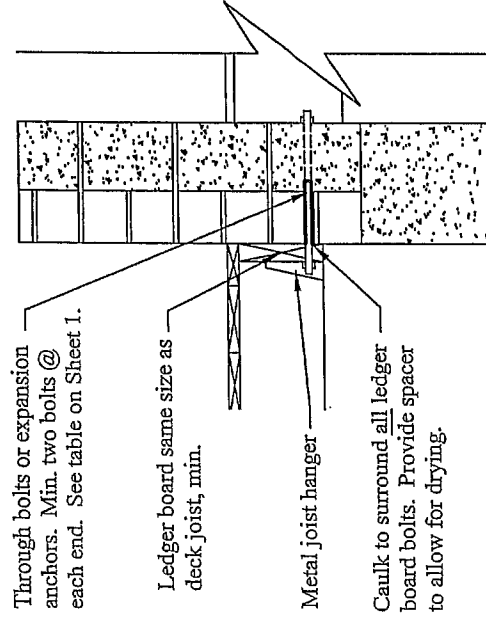
[14] Choose the ledger board detail that applies.



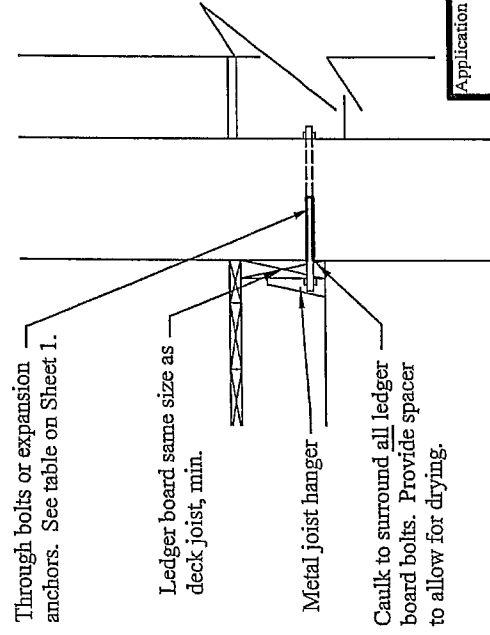
[ ] Siding Applications



[ ] Brick Veneer Applications



[ ] Brick/Block Applications



[ ] Concrete Applications

**THE 1/2" BOLTS MUST BE STAGGERED**

Application No.

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