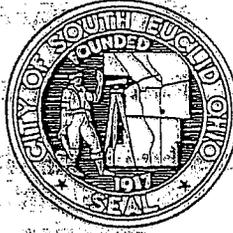


# CITY OF SOUTH EUCLID



## REQUIREMENTS FOR CONSTRUCTION OF PATIO DECKS

Patio Decks are becoming the most common improvement that the homeowner themselves are attempting to encounter. Patio decks should be designed to accommodate the family needs and be constructed of lasting materials and be safe and sound.

1. Before constructing a patio deck, a building permit must first be obtained from the Building Department. At the time of application for the permit a plot plan, showing lot measurements, length and width of house, and the actual size of deck, including steps, must be submitted.

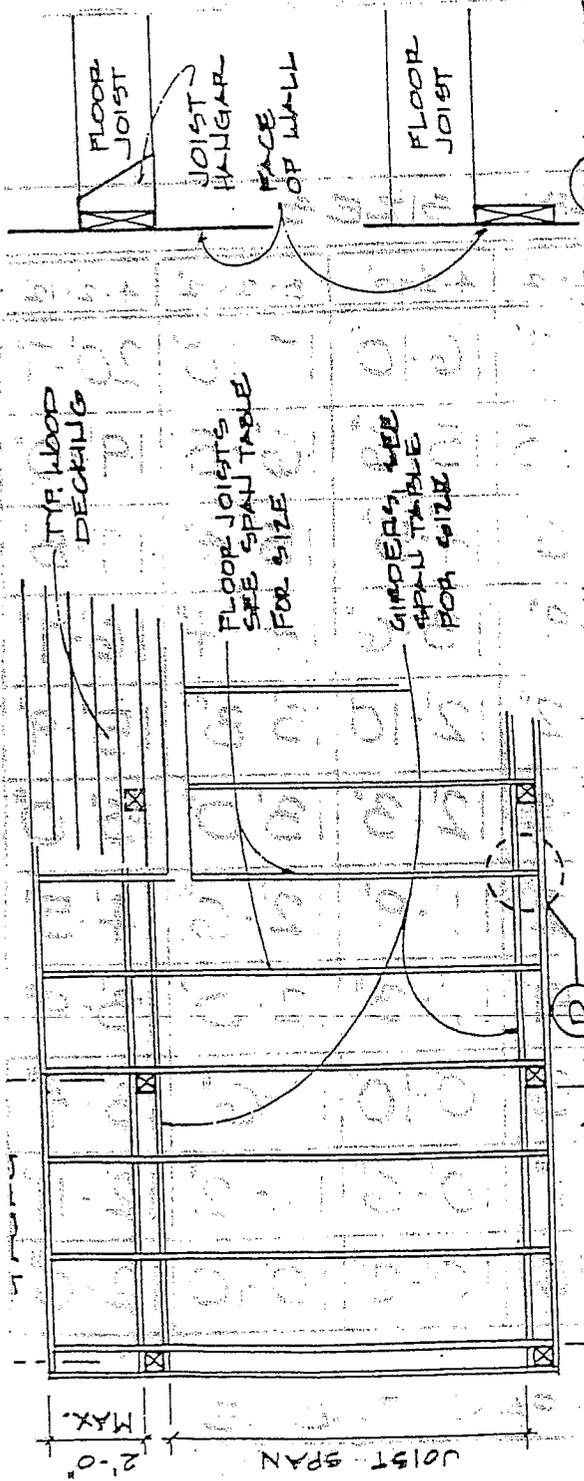
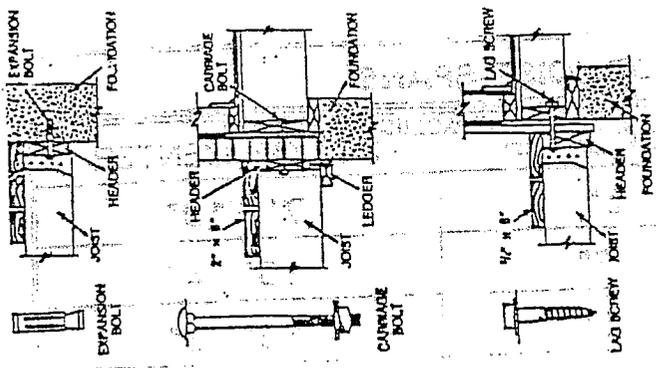
A drawing must also be submitted showing the method of construction for the proposed deck.

2. Lumber to be used should be pressure treated (treated against dry rot) or untreated structural lumber which then must be painted or stained to withstand the weather.
3. The drawing shall detail the method of anchoring the deck frame to the house as well as anchoring to the posts. The use of steel joist hangers is permitted and is the most common method used to attach the floor joist to the house.
4. Floor joist shall be of sufficient size to carry the live load above. For determining correct sizes of floors, joist, etc. there are reference materials at the South Euclid Library and attached to this notice.
5. Patio decks which are elevated twenty-four (24") inches or more above grade shall have railings installed around the perimeter of the deck. Railings are to extend thirty-six (36") inches above the deck flooring. Railing may be of 2 x 4's or 2 x 6's construction, and shall be rigid and securely fastened to the house. Corners for railings are commonly 4 x 4's.
6. Steps for decks may be of the open or closed stringer type. Steps shall be at least as wide as the walkway, leading to the deck. Risers shall all be equal and shall not be greater than eight (8") inches. Risers are commonly 7 ¼ inches in height. Stair treads shall not be less than eleven (11") inches. All stair flights which have more than three (3) risers or which are twenty-four (24") inches above grade shall have at least one durable handrail installed.

(over)

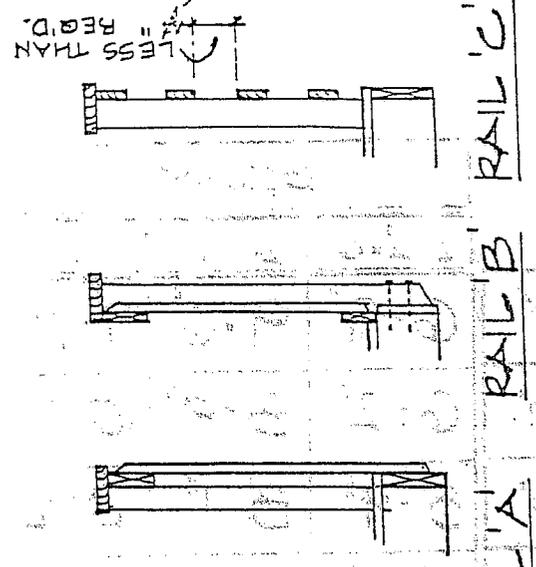
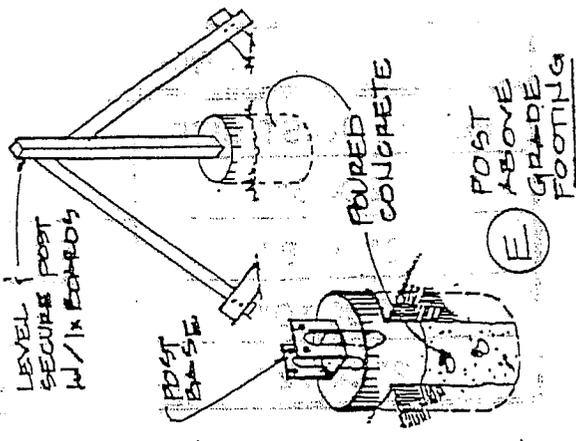
REQUIREMENTS FOR CONSTRUCTION OF PATIO DECKS – (con't)

7. See Companion Deck Framing Sheet for further details. (attached)
8. It is recommended that the space between the ground and deck be enclosed to prevent the harborage and breeding of wildlife. The enclosure should extend below the surface of the ground approximately 12 inches to prevent burrowing. Enclosure should be aesthetically compatible with the structure's design such as lattice, wood slate, etc. and made from "certified ground contact treated lumber" of other similar materials.

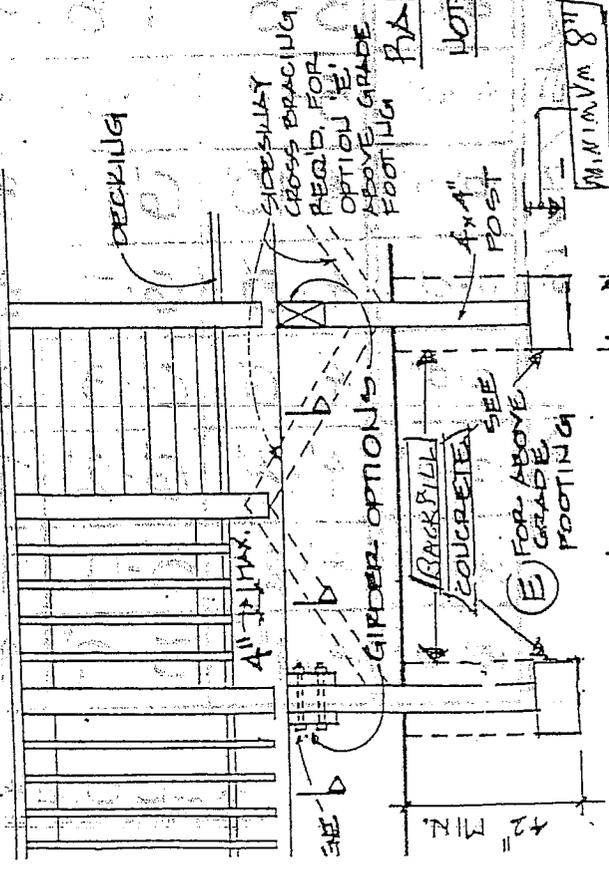


**D LEDGER OPTIONS**

**FRAMING PLAN**



**G RAILING OPTIONS**



**ELEVATION #1**

**SUBMITTED PLANS MUST INCLUDE:**

1. Framing Plan including joist size and spacing.
2. Elevation including railing and post.
3. Site plan locating the deck.

MAXIMUM FLOOR JOIST SPANS		
FLOOR JOIST SIZE	16" ON CENTER <sup>SPACING</sup> 24" ON CENTER	
2 X 6"	9' - 6"	7' - 10"
2" X 8"	12' - 7"	10' - 4"
2" X 10"	16' - 0"	13' - 3"
2" X 12"	19' - 6"	16' - 0"

		BEAM / GIRDER SIZES						
		2-2"x6"	2-2"x8"	2-2"x10"	2-2"x12"	4-2"x10"	3-2"x12"	4-2"x12"
JOIST SPAN / SPACING	5'-0"	6'-9"	9'-6"	11'-11"	14'-7"	16'-0"	17'-10"	20'-7"
	6'-0"	6'-2"	8'-9"	10'-11"	13'-5"	15'-6"	16'-5"	19'-0"
	7'-0"	5'-9"	8'-1"	10'-2"	12'-6"	14'-5"	15'-4"	17'-8"
	8'-0"	5'-5"	7'-8"	9'-7"	11'-9"	13'-6"	14'-4"	16'-7"
	9'-0"	5'-1"	7'-3"	9'-1"	11'-2"	12'-10"	13'-8"	15'-9"
	10'-0"	4'-10"	6'-11"	8'-8"	10'-8"	12'-3"	13'-0"	15'-0"
	11'-0"	4'-8"	6'-7"	8'-4"	10'-2"	11'-9"	12'-6"	14'-5"
	12'-0"	4'-6"	6'-3"	8'-0"	9'-9"	11'-3"	12'-0"	13'-9"
	13'-0"	4'-4"	6'-2"	7'-8"	9'-5"	10'-10"	11'-6"	13'-4"
	14'-0"	4'-2"	5'-11"	7'-5"	9'-1"	10'-6"	11'-2"	12'-11"
	15'-0"	4'-1"	5'-9"	7'-3"	8'-10"	10'-2"	10'-10"	12'-6"

ALLOWABLE SPAN TABLE  
(1200 DLT)

