

# DECK INFORMATION

Town of East Lyme Building Department  
108 Pennsylvania Avenue  
PO Box 519  
Niantic, CT 06357  
Telephone: (860) 691-4114      Fax: (860) 691-0351

The applicant must submit a site plan ( see example) showing location on lot, total lot coverage, dimensions of all structures and distances to property lines, and location of septic system (if applicable). Review the information in our street file for your property if you need to find your septic system.

Please provide complete plans for the proposed deck (see example).

We have included these code sections in an attempt to help the applicant understand the code requirements for a specific project.

This handout in no way takes the place of the building code, nor does it contain all of the information an applicant needs to build their structure.

Please refer to the code itself for requirements applicable to your project.

Fill out and submit Zoning and Building permit applications.

All permit applications are reviewed by all eight departments (Zoning, Tax, Engineering, Wetlands, Planning, Water, Sewer and Building), so please allow ample time for review (state statute allows for thirty days for Building Official Review).

If a Septic System serves your property, you will need to submit a second set of plans to Ledge Light Health District for approval. Please visit their offices on the upper level of the East Lyme Town Hall or contact them at (860) 448-4882.

Please note that this and other information is available at our website:

[www.eltownhall.com](http://www.eltownhall.com)

## SECTION R 311 MEANS OF EGRESS

**R311.1 General.** Stairways, ramps, exterior exit balconies, hallways and doors shall comply with this section.

### **R311.2 Construction.**

**R311.2.1 Attachment.** Required exterior exit balconies, stairs and similar exit facilities shall be positively anchored to the primary structure to resist both vertical and lateral forces. Such attachment shall not be accomplished by use of toenails or nails subject with withdrawal.

**R311.2.2 Under stair protection.** Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with ½ inch gypsum board.

**R311.3 Hallways.** The minimum width of a hallway shall be not less than 3 feet.

### **R311.4 Doors.**

**R311.4.1 Exit Door Required.** Not less than one exit door conforming to this section shall be provided for each dwelling unit. The required exit door shall provide for direct access from the habitable portions of the dwelling to the exterior without requiring travel through a garage. Access to habitable levels not having an exit in accordance with this section shall be by a ramp in accordance with Section R311.6 or a stairway in accordance with Section R311.5.

(Amd) **R311.4.2 Door type and size.** The required exit door shall be a side-hinged door not less than 3 feet in width and 6 feet 8 inches in height. Other doors shall be permitted to be side-hinged, swinging, sliding, bi-fold or revolving doors, shall not be required to comply with the minimum door width and shall be permitted to be not less than 6 feet 6 inches in height.

(Amd) **311.4.3 Landings at exterior doors.** There shall be a floor or landing a minimum of 3 feet in the direction of travel and 3 feet in width, or a width equal to the width of any adjacent stair, whichever is greater, on each side of each exterior door. The landing on the exterior side of doors shall not be more than 8 ¼ inches below the top of the threshold provided that the door, other than an exterior storm or screen door, does not swing over the landing. In the event that the door, other than an exterior storm or screen door, swings over the landing, the landing shall not be more than 1.5 inches below the top of the threshold.

**Exception:** At other than the required exit door, a landing is not required for the exterior side of the door where a stairway of three or fewer risers, including the top riser from the dwelling to the top tread, is located on the exterior side of a door.

(Amd) **R311.5.1 Width.** Stairways shall not be less than 36 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31.5 inches where a handrail is installed on one side and 27 inches where handrails are provided on both sides.

#### **Exceptions:**

The width of spiral stairways shall be in accordance with Section R311.5.8.

The width of existing stairways serving existing unfinished attics or existing unfinished basements being converted to habitable space shall not be less than 32 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 28 inches where a handrail is installed on one side and 24 inches where handrails are provided on both sides.

(Amd) **R311.5.2 Headroom.** The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches measured vertically from the sloped plane adjoining the tread nosing or from the floor surface of the landing or platform.

**Exception:** The minimum headroom in all parts of existing stairways serving existing unfinished attics or existing unfinished basements being converted to habitable space shall be 6 feet 6 inches, measured as above.

(Amd) **R311.5.3.1 Riser height.** The maximum riser height shall be 8 ¼ inches. The riser shall be measured vertically between leading edges of adjacent treads.

**Exception:** The maximum riser height of existing stairs serving existing unfinished attics or existing unfinished basements being converted to habitable space shall be 9 inches, measured as above. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch.

(Amd) **R311.5.3.2 Tread depth.** The minimum tread depth shall be 9 inches. The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge.

**Exception:** The minimum tread depth of existing stairs serving existing unfinished attics or existing unfinished basements being converted to habitable space shall be 8 inches, measured as above. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch. Winder and circular stairway treads shall have a minimum tread depth of 9 inches measured as above at a point 12 inches from the sides where the treads are narrower. Winder treads shall have a minimum tread depth of 6 inches at any point. The greatest winder tread depth at the 12-inch walk line within any flight of stairs shall not exceed the smallest by more than 3/8 inch. The greatest circular tread depth at any walking line within any circular flight of stairs, measured at a consistent distance from a side of the stairway, shall not exceed the smallest by more than 3/8 inch.

#### **R311.5.3.3 Profile.**

The radius of curvature at the leading edge of the tread shall be no greater than 9/16 inch. A nosing not less than 3/4 inch (19 mm) but not more than 1 ¼ inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two stories, including the nosing at the level of floors and landings. Beveling of nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading edge of the tread above at an angle not more than 30 (0.51 rad) degrees from the vertical. Open risers are permitted, provided that the opening between treads does not permit the passage of a 4-inch diameter (102 mm) sphere.

**Exceptions:** 1. A nosing is not required where the tread depth is a minimum of 11 inches (279 mm).  
2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches (762 mm) or less.

**R311.5.4 Landings for Stairways.** There shall be a floor or landing at the top and bottom of each stairway.

**Exception:** A floor or landing is not required at the top of an interior flight of stairs, provided a door does not swing over the stairs. A flight of stairs shall not have a vertical rise greater than 12 feet (3658 mm) between floor levels or landings. The width of each landing shall not be less than the stairway served. Every landing shall have a minimum dimension of 36 inches (914 mm) measured in the direction of travel.

**R311.5.5 Stairway walking surface.** The walking surface of treads and landings of stairways shall be sloped no steeper than one unit vertical in 48 inches horizontal (2-percent slope).

**R311.5.6 Handrails.** Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers.

**R311.5.6.1 Height.** Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

(Amd) **R311.5.6.2 Continuity.** Handrails for stairways shall be continuous for the full length of each flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned to a wall or shall terminate in newel posts or safety terminations. Handrails adjacent to a wall shall have a space of not less than 1 ½ inch between the wall and the handrails.

#### **Exceptions:**

Handrails shall be permitted to be interrupted by a newel post at a level landing.  
The use of a volute, turnout, starting easing or starting newel shall be permitted over the lowest tread.

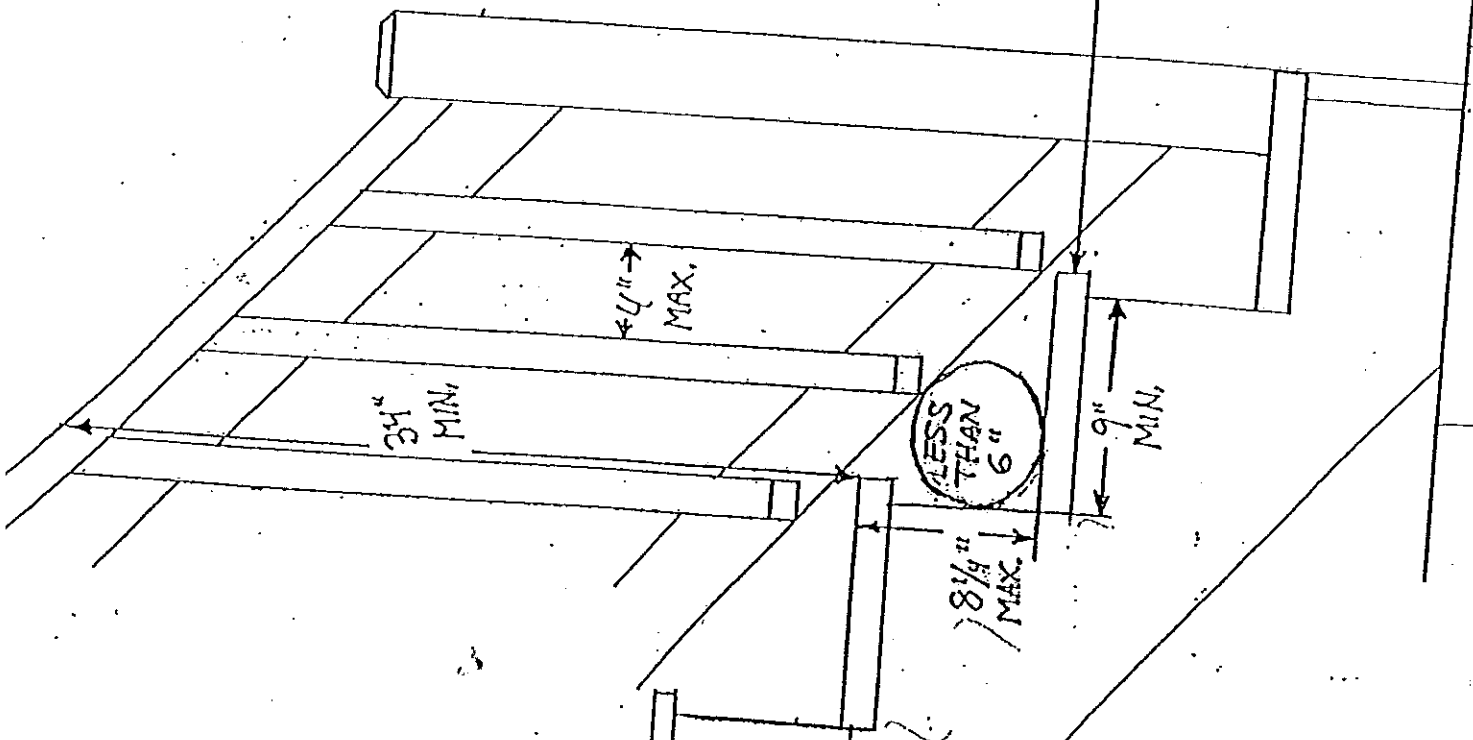
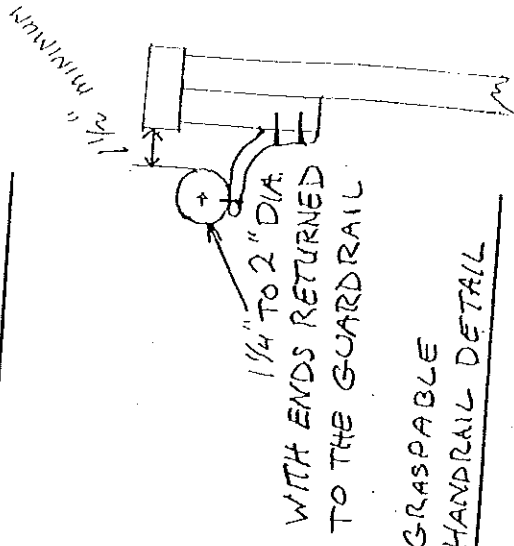
### KS11.5.6.3 Handrail grip size.

All required handrails shall be of one of the following types or provide equivalent graspability.

Type I. Handrails with a circular cross section shall have an outside diameter of at least  $1\frac{1}{4}$  inches (32 mm) and not greater than 2 inches (51 mm). If the handrail is not circular it shall have a perimeter dimension of at least 4 inches (102mm) and not greater than  $6\frac{1}{4}$  inches (160 mm) with a maximum cross section of dimension of  $2\frac{1}{4}$  inches (57 mm).

Type II. Handrails with a perimeter greater than  $6\frac{1}{4}$  inches (160mm) shall provide a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of  $\frac{3}{4}$  inch (19 mm) measured vertically from the tallest portion of the profile and achieve a depth of at least  $\frac{5}{16}$  inch (8mm) within  $\frac{7}{8}$  inch (22mm) below the widest portion of the profile. This required depth shall continue for at least  $\frac{3}{8}$  inch (10mm) to a level that is not less than  $\frac{1}{4}$  inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be  $1\frac{1}{4}$  inches (32 mm) to a maximum of  $2\frac{3}{4}$  inches (70 mm). Edges shall have a minimum radius of 0.01 inches (0.25 mm).

# STAIR DETAILS



IF THE STAIR HAS CLOSED RISERS, THEN THE NOSING OF THE TREAD MUST OVERHANG THE RISER BY 3/4" BUT NOT MORE THAN 1 1/4"

STAIR STRINGERS SHALL BE SECURELY FASTENED TO DECK

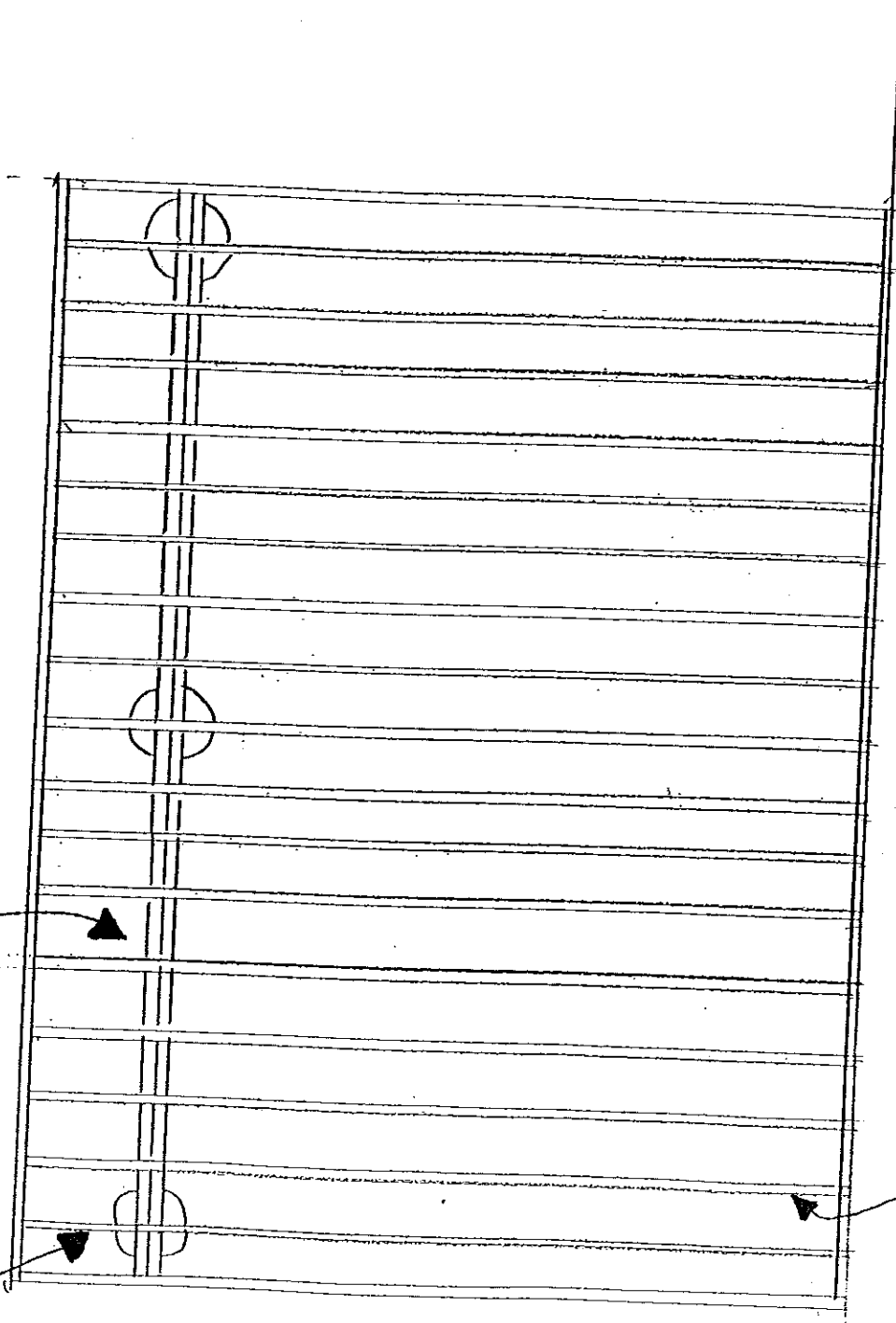
Size & Number of Stringers

Stair shall be supported at bottom

Example of a plan view of a proposed deck

Please  
Indicate size  
of pier

2-2x? beam

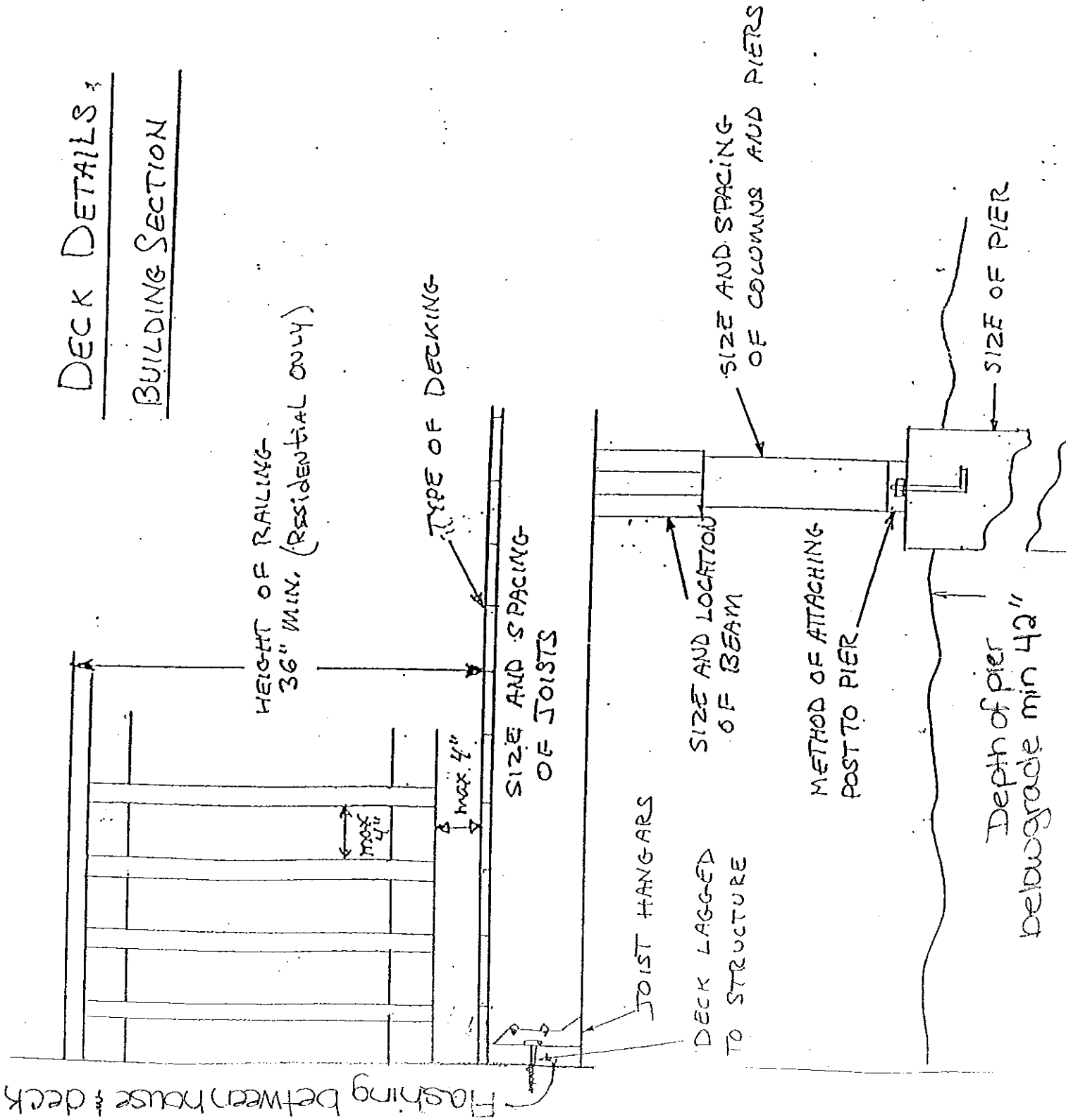


2x? joists 16" o.c.

Existing Structure

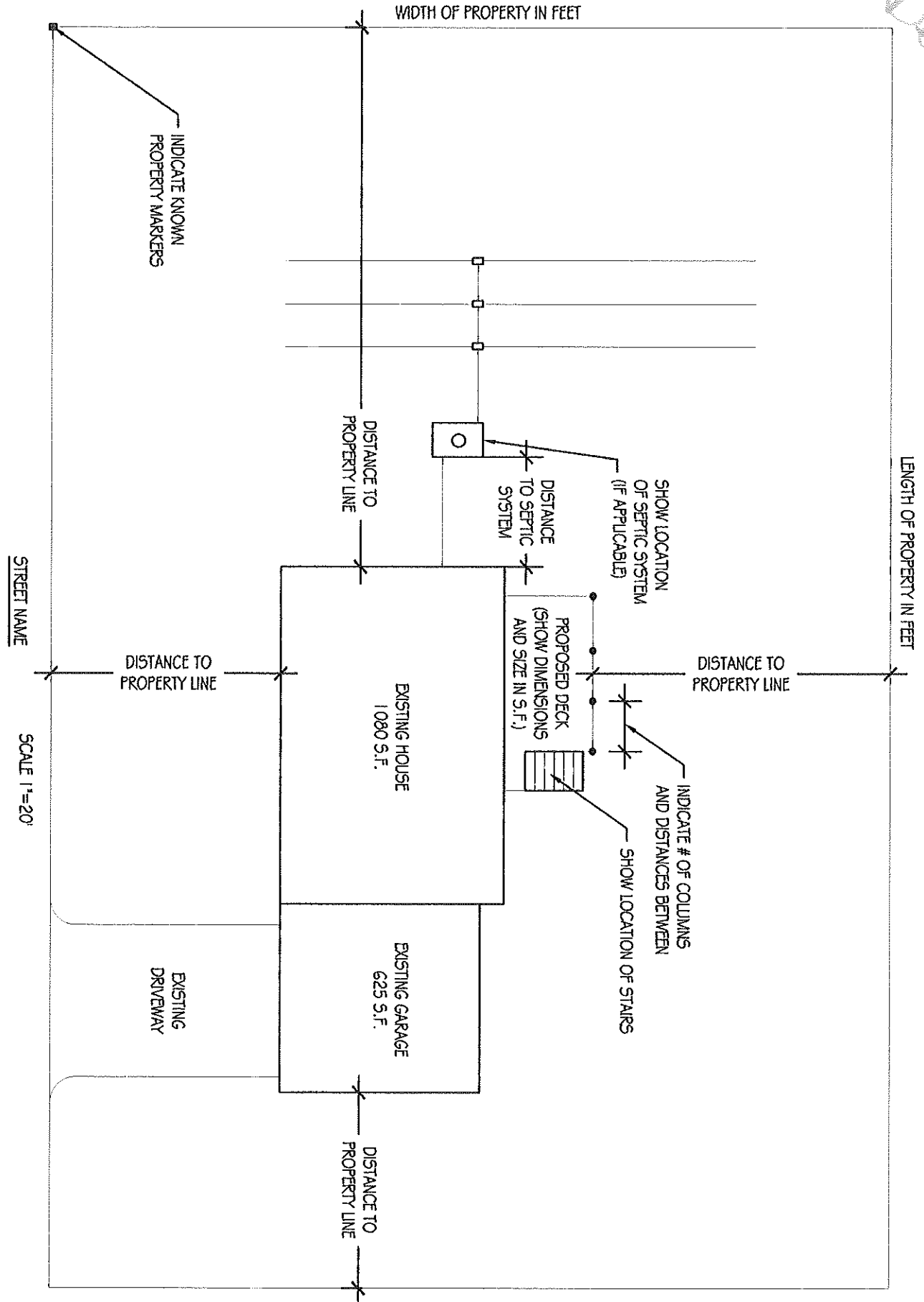
DECK DETAILS

BUILDING SECTION



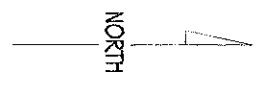


Deck



TYPICAL SITE PLAN DRAWN TO SCALE (INDICATE SCALE)  
 FOR A DECK IN ZONE R-12 - CHECK THE ZONING MAP AND  
 REGULATIONS FOR REQUIREMENTS FOR YOUR ZONE.

ZONE R-12	FRONT	SIDE	REAR
SETBACK REQUIRED	30	15	15
SETBACK PROVIDED	57	67 & 60	30
MAX. LOT COVERAGE	25% = 3750 S.F.		
PROPOSED LOT COVERAGE	13% = 1945 S.F.		



Handwritten scribble or mark in the top left corner.

Vertical text on the left side, possibly a page number or reference.

