

FINISHED BASEMENTS

(Based on the 1999 Connecticut Building Code, Specifically R4 Construction Using The 1995 Edition Of CABO with The Connecticut Addendum)

Please submit the following:

1. Existing Floor Plan
2. Proposed Floor Plan

To be shown on plans:

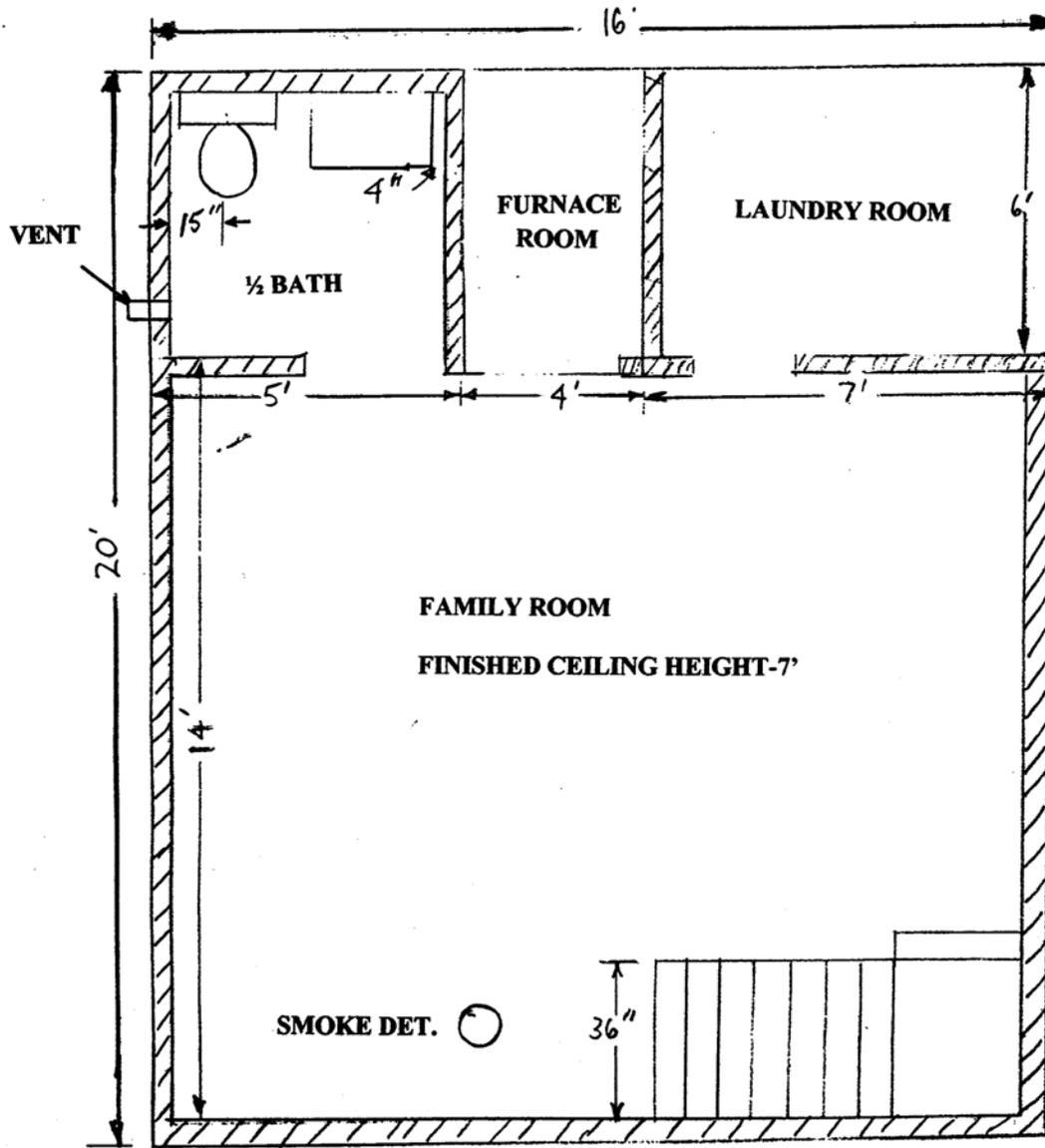
- Show all dimensions
- Show finished ceiling height to finished floor
- Show floor type (concrete, wood sleepers, carpet, tile, etc.)
- Show room use (family room, study, office, etc.)
- Show wall construction and anchorage (example-2x4 16 OC)
- Show insulation type and R-value
- Show pressure treated plate (any wood coming into contact with concrete must be pressure treated)
- If enclosing furnace area, show source of combustion air (indicate oil, gas, or electric heat)
- Show smoke detector location
- Show stair detail (show tread and rise, ceiling height, stair width, railing height)

If Bathroom is included in proposed plans, please include the following:

- Show ceiling height in bathroom to finished floor
- Show either a window or vent to outside
- Show spacing between fixtures and from fixtures to walls

Please see attached example and requirements for additional information.

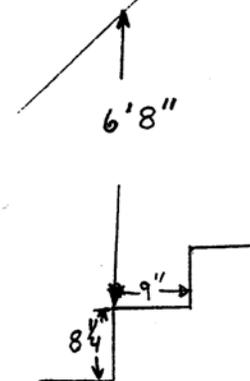
EXAMPLE ONLY



NAME _____
 ADDRESS _____

/// = NEW WALLS
 2X4 16 OC
 2X4 P.T. PLATE
 R-13 INSUL.
 1/2" SHTRCK

STAIR DETAIL



(Amd) **305.1 Minimum height.** Habitable rooms shall have a ceiling height of not less than 7 feet for at least 50 percent of their required areas. Not more than 50 percent of the required area may have a sloped ceiling less than 7 feet in height with no portion of the required area less than 5 feet in height.

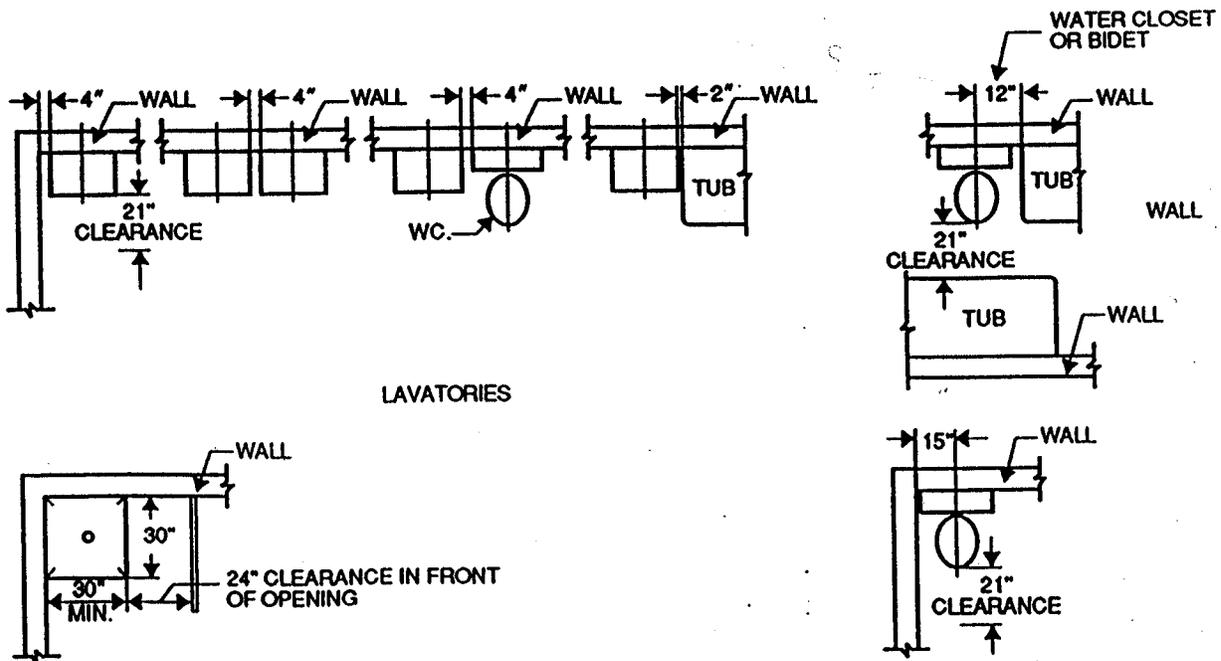
Exceptions:

1. The maximum projection below the required ceiling height of beams and girders spaced not less than 4 feet on center shall be 6 inches.
2. Ceiling height in basements without habitable spaces shall not be less than 6 feet 8 inches clear except for under beams, girders, ducts or other obstructions where the clear height shall be a minimum of 6 feet 4 inches.
3. All other rooms including bath or toilet rooms, hallways, laundries, utility rooms and similar spaces shall have a ceiling height of not less than 7 feet measured to the lowest projection from the ceiling.
4. Ceiling height in existing basements being converted to recreation rooms shall be not less than 6 feet 10 inches clear except for under beams, girders, ducts or other obstructions where the clear height shall be a minimum of 6 feet 6 inches

**SECTION 307
TOILET, BATH AND SHOWER SPACES**

307.1 Privacy required. Every water closet, bathtub or shower required by this code shall be installed in a room which will afford privacy to the occupant.

307.2 Space required. Fixtures shall be spaced as per Figure 307.2.



or SI: 1 inch = 25.4 mm.

FIGURE 307.2

Help Sheet for Venting and Combustion Air

1. Direct vent appliances and appliances equipped with a combustion air kit, do not require additional combustion air.
2. All fuel burning appliances (Furnaces, Hot Water Heater, etc.) require air for combustion based on 50 cubic feet of air for each 1000 BTU's of appliance(s)
3. The air may be taken from the space the appliance(s) is located if sufficient or adjacent spaces (if volume is sufficient & connected by two openings of required size)
4. To see if you comply, please do the following calculation below for the space:

Length x Width = Area x Height =SPACE VOLUME of air in cubic feet
 _____ x _____ = _____x _____ = _____

BTU's of the appliance(s) x 50 Cubic Feet = required VOLUME in cubic feet
 _____ x _____ = _____

SPACE VOLUME of air _____

APPLIANCE VOLUME of air _____

5. The volume of air required for the appliance(s) must be equal to or less than the SPACE VOLUME of air. If the space of air is less (not enough combustion air) outside air is required.
6. Connected spaces require TWO openings. One opening must be located 12" from the floor the other must be located 12" from the ceiling. Each opening shall have a clear opening equal to 1 square inch per 1000 BTU's but not less than 100 square inches.
7. Calculations for openings:

Appliance BTU's x 1 square inch = square inch of opening
 _____ x _____ = _____

8. Metal Louvers are 75% efficient, Wood louvers are 25% efficient; use calculations below for the type of louvers used:

*Metal _____sq. inch of opening divided by .75= _____required size of louver in sq. inches

*Wood _____sq. inch of opening divided by .25= _____required size of louver in sq. inches

No outside air required