

BASEMENT BUILDOUT REQUIREMENTS

Permits are required and plans shall include the following:

- A. Provide all room sizes, ceiling height, and windowsill height.
- B. Provide electrical outlet, switch and lighting locations. (All wiring must be run in conduit.) Provide outlets every twelve feet (12') and on any wall section over two feet (2').
- C. Provide heating duct and return air locations. A supply and a return is required in all rooms. **Exception:** A return is not required in any restroom.
- D. Provide minimum four percent (4%) natural light and four percent (4%) ventilation. Also provide all window locations and their sizes. **Exception:** Mechanical light and vent may be substituted for up to two percent (2%) of the overall four percent (4%) where approved by the Code Official.
- E. Provide framing detail. (Minimum two inches by four inches [2" x 4"] sixteen inch [16"]-on center.) Provide R-value insulation. (Minimum in walls is R-13.)
- F. When building out for the furnace area, provide B.T.U. data on furnace and water heater. Also provide information on louvered door and combustion air openings.
- G. Provide all plumbing fixture locations. Also, provide a material list including material sizes and specific type. (Example: Water piping type L above ground.) Provide an isometric drawing of the plumbing system.
- H. Provide the type of interior wall finish (paneling, drywall, etc.).
- I. Provide the smoke detectors locations. Provide co. detectors when applicable for sleeping rooms.
- J. Provide door sizes and escape window location(s).
- K. Provide the circuit panel location.
- L. Provide type of ceiling (drywall, drop, etc.).
- M. No kitchens shall be allowed in basements.
- N. Provide the tax identification number, street address and a copy of the signed contract.

Permit fees: In addition to the permit fee based on the estimated value of the proposed work, there will be a \$40 fee for electrical work and \$40 for any plumbing work.

Should you have any questions, feel free to contact the Building Department at (630) 837-0800.

BASEMENT BUILDOUT REQUIREMENTS

Permits are required and plans shall include the following:

A. Provide all room sizes:

1 _____ 2 _____ 3 _____
4 _____ 5 _____ 6 _____

Windowsill height sizes:

1 _____ 2 _____ 3 _____
4 _____ 5 _____ 6 _____

C. Heat ducts and cold air returns in each room. Yes _____

E. Framing detail: Wood _____ Steel _____
2" x 4" 16" O.C. Minimum

F. Insulation value for walls. R _____ Minimum R-13 unfaced

J. Provide door sizes:

Provide window sizes:

L. Provide type of ceiling:

Drywall _____ Drop _____ Etc. _____
All junction boxes must be accessible.

Please refer to page 1 for requirement letters listed above.

Address: _____

COMPLETE ABOVE LIST AND SUBMIT WITH PERMIT APPLICATION.

BASEMENT BUILDOUT REQUIREMENTS FOR ELECTRIC WORK

The following information is taken from the 2005 National Electric Code.

1. All outlets must follow the 6'/12' rule. (210.52(A)(1))
2. The bathroom GFI outlet must be on a 20-amp circuit and shall follow 210.52(D).
3. Smoke detectors must meet sections R313.1 to R313.3 of the 2006 IRC Codes. Provide a smoke detector in the open area and one in the mechanical room, and any room that has a closet. The smoke detectors must be 110 volts, battery back up and interconnected if possible.
4. The wall switch for the room must meet section 210.70(A)(2) and the stairs must have a 3-way switch installed at the top and bottom. Provide lighting inside the stairwell and landing.
5. Make sure there are no more than 360° of bends between pull points in the conduit runs. (358.26)
6. All cuts on conduit must be reamed out to remove all rough edges. (358.28)
7. Receptacles shall not be dependent upon for splicing. The wires shall be looped or they shall have a pig tail jumper to the device. (300.13(B))
8. The length of the free conductor at all junction boxes, outlets or switch points shall be a minimum of 6 inches. (300.14)
9. All outlets must be the self-grounding type per 250.146(B) and all GFCI outlets must have a bonding jumper installed to the box via a listed clip or screw and the wire must be sized to comply with section 250.122.
10. 3/8" flexible metal conduit (Greenfield) cannot be used for wiring to an outlet. (348.20(A))

PLUMBING REQUIREMENTS FOR BASEMENT BUILDOUTS

1. Follow the Illinois State Plumbing Code – Latest Edition and the Village of Bartlett Plumbing Code 2007.
2. Provide a fixture list (sinks, toilets, pumps, etc.).
3. Provide a plumbing drawing of the piping system. Indicate on the plan the size and type of water waste and vent pipe.
4. Indicate on the plan the size of the ejector basin. (30" deep)
5. Indicate on the plan that the tub and shower or shower faucet will be thermostatic, pressure balance or combination controlled in accordance with ANSI/ASSE 1016-1990 and designed with a maximum handle rotation limit/stop adjusted to a maximum handle rotation limit/stop, adjusted to a maximum setting of one hundred fifteen degrees (115°) Fahrenheit at the time of installation.

UNDERGROUND PIPING

1. Water pipe Type K copper.
2. Sanitary pipe – cast iron pipe approved or
3. Polyvinyl chloride (PVC) schedule 40 approved.

ABOVE GROUND PIPE

1. Water pipe – Type L copper.
2. Sanitary pipe – polyvinyl chloride (PVC) schedule 40.

SIZE OF SANITARY PIPES UNDER GROUND

1. Re vents 2" minimum PVC.
2. Floor drains 4".
3. Water closets 4".
4. Main line going to sewer or ejector basin 4".
5. Branch lines to showers, shower traps, lavatories, bar sinks 2". (2" waste lines not to exceed 12')

If there are any questions, please call Hank at the Building Department at (630) 837-0800, ext. 5926.