

Common code applications that are a part of a basement remodel that are commonly missed;

Plumbing

- Nail plating of plumbing too close to the stud face. (1 1/2 inches or less)
- Inadequate toilet alcove opening due to cabinet location (30 inches upon finish)
- Access for plumbing cleanouts not maintained after drywall application (18 inch clearance)
- Concealing auto-vent device in wall cavity
- Caulking of plumbing fixtures for sanitation
- Proper support on pipe work
- Installation of corrugated piping is not permitted

Electrical

- Nail plating of conductors less than 1 1/4 inches to stud face (measured to opening edge)
- Securing of electrical cables at the box location (8 inches)
- Wrong size wire or incorrect wiring method on restroom circuits. (12 a.w.g. wire for 20 amp circuit, dedicated)
- Lack of arc-fault protection on bedroom circuits
- Failure to update panel with new circuit information
- Smoke detectors wired with appropriate cable assembly (14-3 with ground) and interconnected to existing
- Carbon monoxide detector (installed in hall, interconnected with smoke detectors)
- Maximum spacing of wall receptacles of 12 feet

Heating/cooling

- Inadequate support for ducting materials
- Lack of return air in basement level
- Failure to seal ducting joints
- Venting bathrooms to outside if lacking window
- Door opening from mechanical room into bedroom or bathroom without sealed door
- Ducting used for drywall support is prohibited
- Individual runs for air supply to living spaces
- Return air cannot be located in restroom locations

Framing

- Draft stop at top of wall or every ten feet horizontally and at locations where drops tie into walls.
- Use of gypsum behind tile in a shower surround not permitted
- Use of green board gypsum in ceiling with additional blocking (requires 12 inch on center support)

- Block shower pan locations with 2X6
- use of treated or decay resistant wood in contact with concrete for bottom plate.
- Appropriate sized headers for bearing locations
- Provide backing at all corners and ceiling drop locations
- Ceiling dry wall attachment of 12 inch max spacing for screw and wall attachment of 16 inches.
- Install handrails/guardrails as necessary

Building Design

- Egress windows for bedrooms require 5.7 square feet with minimum of 20" for width and 24" in height.
- Egress ladders required if window wells exceed 44 inch depth
- Window frame height cannot exceed 44 inch height from finish floor
- Exterior clearance for wells require 9 square feet and minimum of 36 inches depth.
- 36 inch clearance required under decks and overhangs for egress locations.
- Cover window wells if within 36 inches of walkway
- Ceiling height of 6'8" for habitable locations
 - 6'4" allowed for beams/girders

Energy Code

- Window u-value minimum of 0.35
- Insulation R value of 13 for exterior walls
- Insulate duct work in unconditioned areas with R-8
- Insulate walls adjoining conditioned-unconditioned areas.

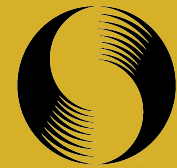
110 S. Main Street
Springville, UT 84663

(801) 489-2704

buildingpermits@springville.org

Basement Improvement

Community Development Building Division



Springville

Building Requirements

Changing the use of a residential unfinished basement to a habitable location, adding electrical, plumbing, or heating systems all require application and permitting prior to starting of the projects. The State of Utah has adopted the International Residential Code for use within our State. This is an example of the information that will be needed to determine compliance with these laws.

Requirements for Submitting a Permit Application for a Basement Improvement:

1. Completed Permit Application Form (available at office or online at www.springville.org/permits)
2. You can contact the Planning & Zoning department for setback requirements and easement information at (801) 491-7861.
3. Electronic copy of construction drawings including:

(over)

- Floor plan of area proposed.
- Label all areas for intended use
- Engineering for beams replacing bearing walls
- Show all window and door locations
- Show location of mechanical room and or equipment.
- Electrical/gas information pending on work to be done.
- Submit contractor information or owner builder indemnification certificate.

Submit application and plans to the Building Department located in the City Office Building at 110 S. Main., during our office hours between 8:00 a.m. to 5:00 p.m. Monday through Friday.

Remember, the office is closed on State and Federal holidays.

Plan review will take approximately 2-3 weeks. It may take longer if we call for corrections to be made to the plans. When plans have been approved, stamped and fees calculated, we will contact you with the permit amount. After the permit has been paid for, work may commence.

Inspections required:

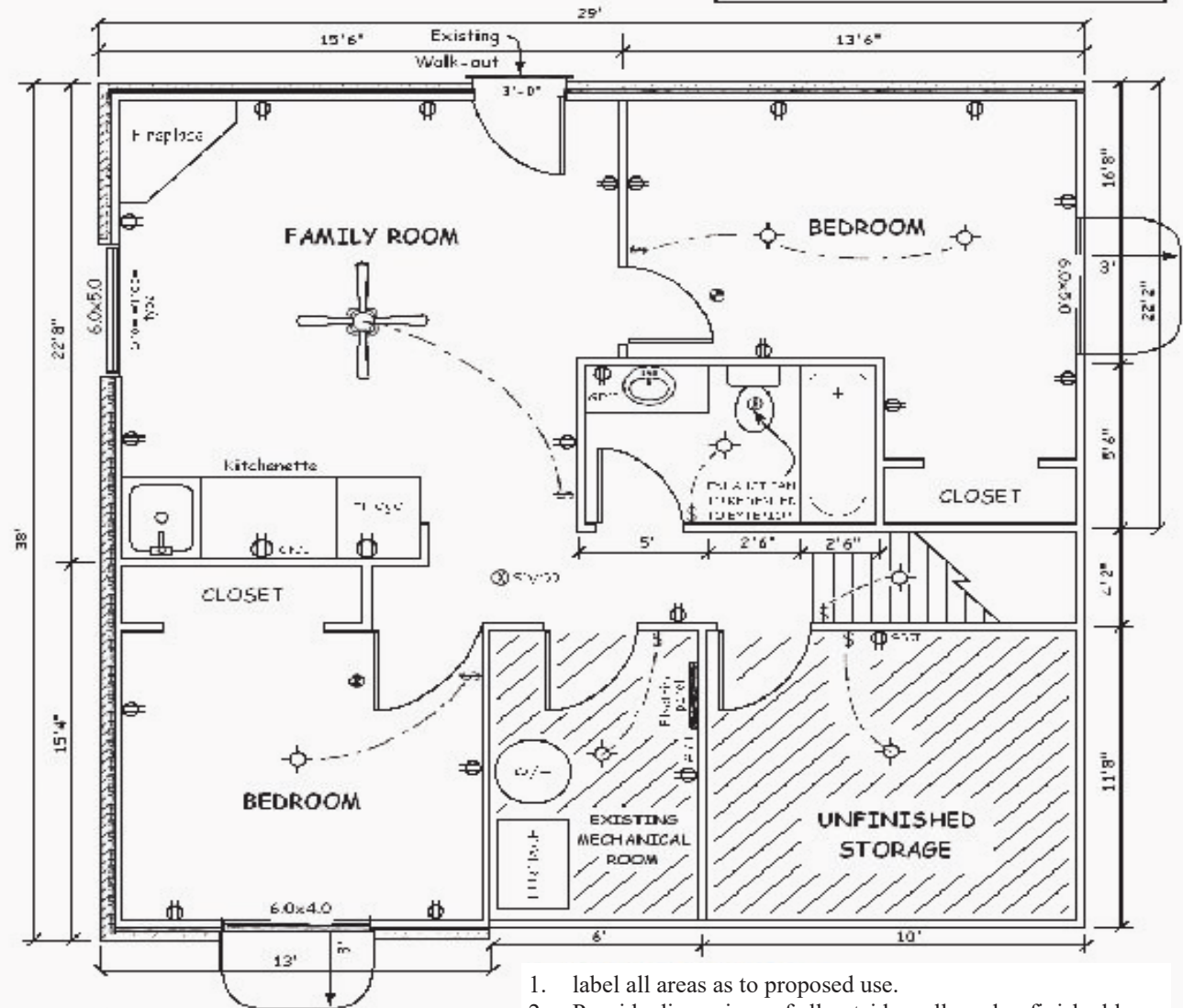
- under-floor plumbing inspection if necessary
- Rough building inspection prior to covering installations of electrical /plumbing/ framing or gas lines.
- insulation inspections
- Final inspection when the improvement is complete prior to use.
- re-inspections as necessary

Call the Building Department at (801) 489-2704 at least one business day before you wish to schedule each inspection. An adult must be present to meet the inspector at the property. After all inspections have been successfully completed, keep the plans, permit and inspection reports with your house records. For any questions or comments please contact the building department at (801)489-2704 or buildingpermits@springville.org

[All plans and inspections are based off the International Residential Code as currently adopted by the State of Utah](#)

Typical for Remodel

Total Sq. Ft. of area being finished _____



- ⊕ = Electrical Outlets
- ⊙ = Light Fixture
- ⊞ = Light Switch
- ⊕ = Smoke Detector
- ⊕/⊞/⊙ = Combination Carbon Monoxide/Smoke Detector

— FOR REFERENCE ONLY —
This drawing does not necessarily Comply with current building code.

- label all areas as to proposed use.
- Provide dimensions of all outside walls and unfinished locations.
- Label locations of windows and doors.
- Show location of smoke and carbon-monoxide detectors
- Show locations of lights and receptacles
- Show walk-outs and if new or existing
- Show mechanical room location
- Provide insulation values for proposed work areas in walls