

RESIDENTIAL INGROUND POOL REQUIREMENTS 2009 UNIFORM CONSTRUCTION CODE

All inspections require at least a 24-hour advance notice. To schedule an inspection call LTL Consultants, Ltd. at 610 987-9290 or 888 987-8886 (toll free). Be prepared to provide the permit number and street address for the job site, not the subdivision name and lot number. Inspections will be conducted in accordance with the 2009 PA Uniform Construction Code. Copies of the building code are available for review at **the local Township office or at the office of LTL Consultants, Ltd.**

The contractor should verify all building dimensions and zoning setbacks before excavation begins.

The following inspections are required:

FOOTING/BONDING INSPECTION

Includes zoning site inspection, soil's condition, re-enforcement (if required according to pool type), and bonding of all metallic materials.*

ELECTRICAL INSPECTION

Typically performed at Final inspection. By contract, all municipalities serviced by LTL Consultants require that all electrical inspections be completed by LTL Consultants. Third party electrical inspections **SHALL NOT** be accepted.

FINAL INSPECTION

Includes electrical final inspection, completion of bonding, safety barrier and pedestrian devices required in accordance with the enclosed document (admission to the residential electrical panel is required).

***Note:** Concrete or other permanent hardening material **SHALL NOT** be placed prior to inspector's approval.

COMMONLY MISSED ITEMS...

It is the homeowners' responsibility to have all inspections completed before proceeding to the next construction step. You must have the weather card in an accessible area if you wish to have the inspections documented.

Any decks, patios or porches associated with your new pool must be inspected according to a schedule that coincides with your pool inspections. It is the homeowners' responsibility to have all inspections completed.

Punitive action may be a consequence of ignoring these simple steps.

Proper fence, gate and ladder installation as well as bonding and electrical inspections must be completed within 30 days of pool construction.

Revised June 2010

SWIMMING POOLS, SPAS AND HOT TUBS

SECTION AG 105 BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this chapter shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor Swimming Pool. An outdoor swimming pool, including an in-ground, aboveground or on-ground pool, hot tub or spa shall be provided with a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches.
2. Openings in the barrier shall not allow passage of a 4-inch diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 inches (44 mm).
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1.75 inches (44 mm).
8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7 above, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:

- 8.1 The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate, and
 - 8.2 The gate and barrier shall have no opening greater than 0.5 (12.7 mm) inch within 18 inches (457 mm) of the release mechanism.
9. Where a wall of a dwelling serves as part of the barrier one of the following conditions shall be met.
- 9.1 The pool shall be equipped with a powered safety cover in compliance with ASTM F1346; or
 - 9.2 Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - 9.3 Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by 9.1 or 9.2 described above.
10. Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps:
- 10.1 The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
 - 10.2 The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

Revised June 2010

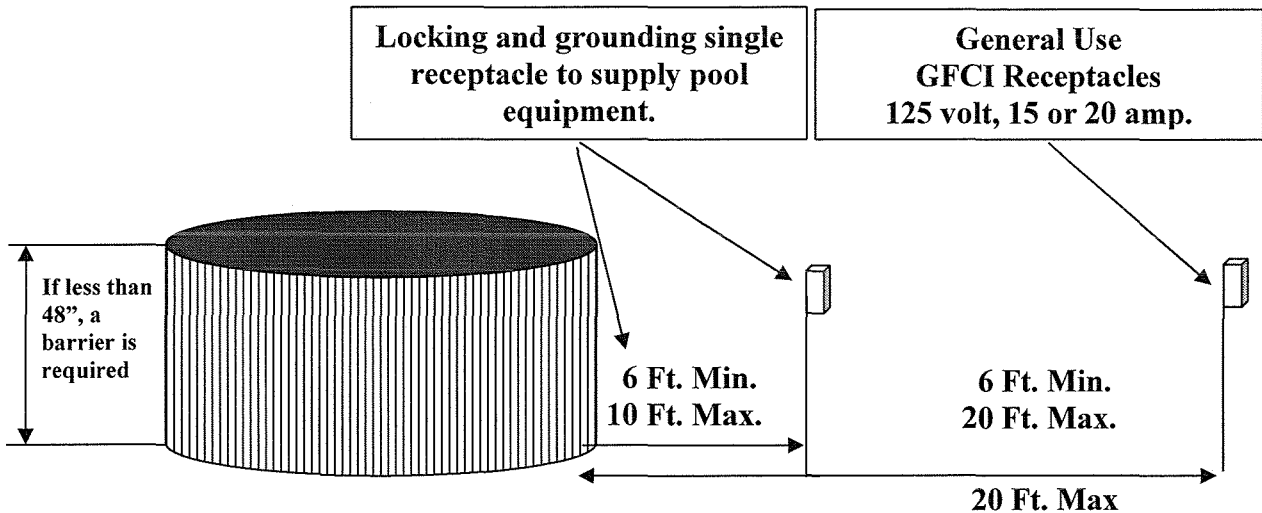
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ABOVEGROUND POOLS

ELECTRICAL & FENCE REQUIREMENTS

One inspection will be conducted at the completion of the project

If you have any questions call LTL Consultants, Ltd. at 610-987-9290
BEFORE you do the work!



Both receptacles can be on one post between 6 ft. and 10' flow pool wall.

A pool more than 24 inches deep and less than 48 inches in height requires a barrier. If your pool is between 24" and 48", contact LTL Consultants Ltd. for barrier requirements.

REVISED JUNE 2010

ELECTRICAL REQUIREMENTS FOR POOLS GREATER THAN 42 INCHES IN DEPTH

IRC 2009: SECTIONS (4203, 4204, 4205 and 4002.10)

Two receptacles are required.

Receptacle Number One

Located between 6 and 10 feet from the inside wall of the pool.
Provide power to pump motors only.
Single outlet, locking and grounding type.
GFCI protected.
Flexible cords cannot exceed 3 feet.
If wired directly to pump (no cord or plug), a disconnect must be readily accessible and within sight.
Must be supplied with #12 wire AWG.
Must have weatherproof cover (wet location) when cord is plugged in.

Receptacle Number Two

Located between 6 and 20 feet from inside wall of pool.
GFCI protected.
May be duplex outlet.
Must have weatherproof cover when cords are plugged in.

Restricted Space

No receptacles may be within 6 feet of the pool wall.
All receptacles located within 20 feet of the pool must be GFCI protected.
Both receptacles may be on the same circuit.
Burial Depth 12" when circuit is maximum 120 volt, GFCI protected at panel, and over current protection is 20 amps maximum.
Otherwise 18" burial depth is required

Grounding

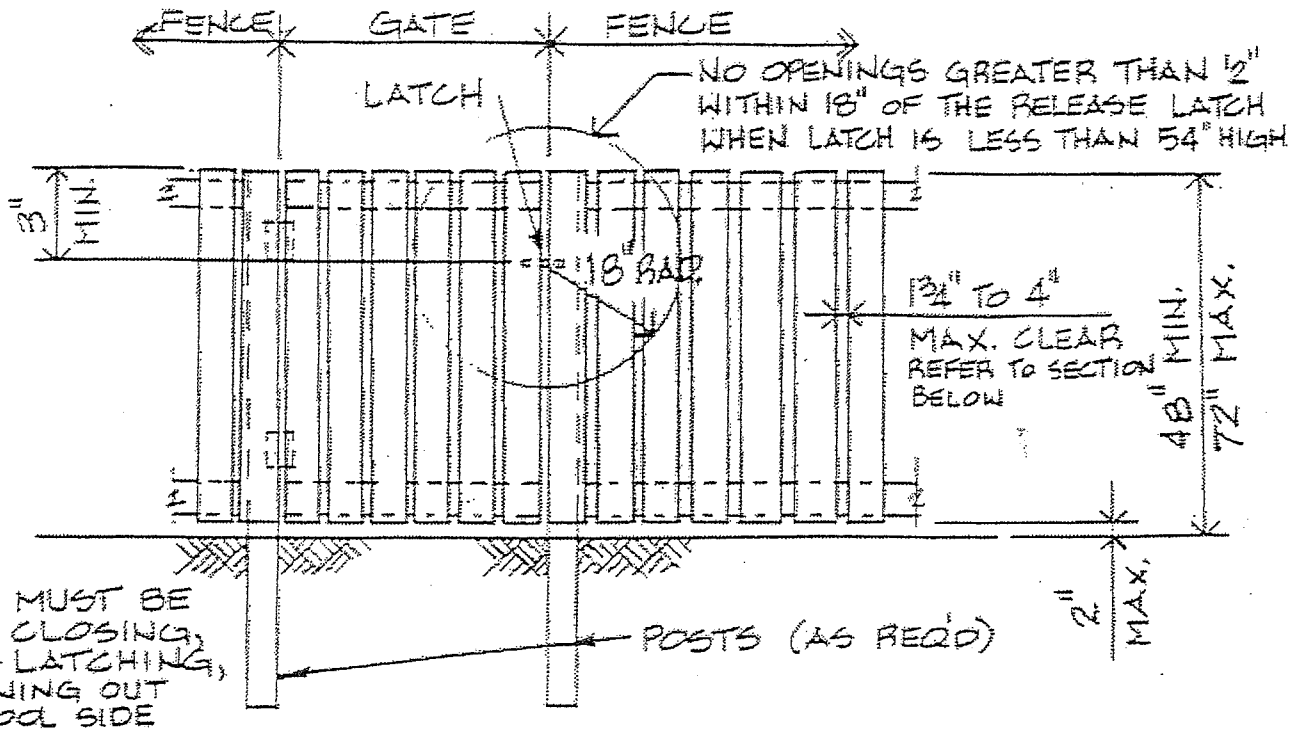
All electrical equipment associated with the pool shall be grounded.

Bonding

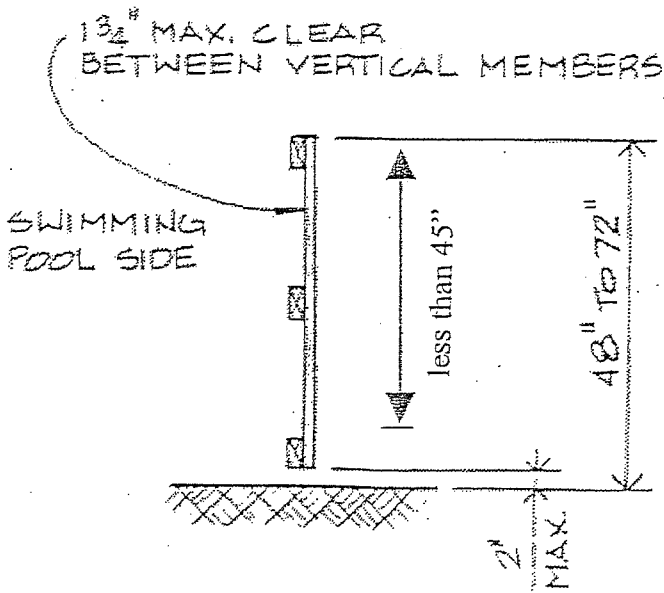
Metallic components, electrical equipment and pool water shall be bonded together with an 8 AWG or larger solid copper bonding conductor.

REVISED JUNE 2010

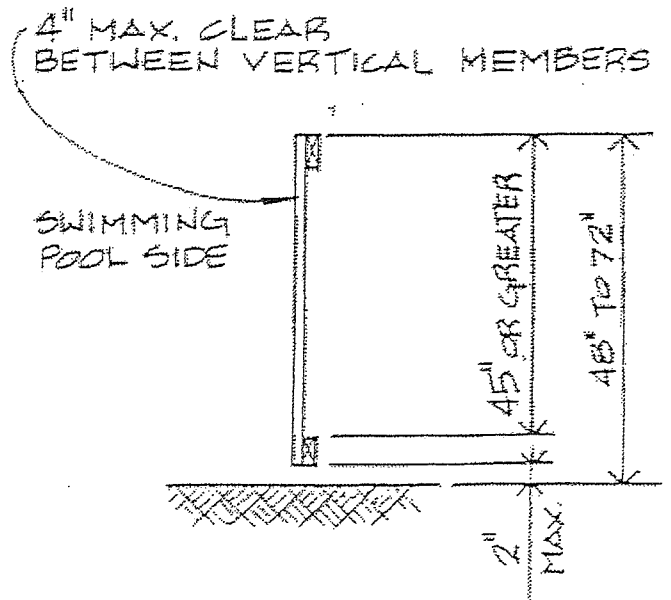
Latch shall be mounted on pool side of gate when less than 54" high and 3" min from top of gate



POOL GATE AND BARRIER ELEVATION

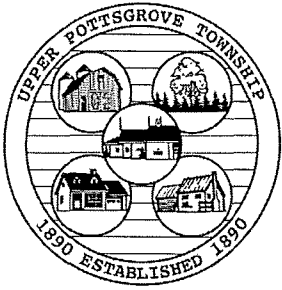


HORIZONTAL MEMBERS SPACED LESS THAN 45"



HORIZONTAL MEMBERS SPACED 45" OR GREATER.

POOL BARRIER SECTIONS



Township of Upper Pottsgrove

MONTGOMERY COUNTY, PENNSYLVANIA

1409 Farmington Avenue Pottstown, PA 19464
Phone: 610-323-8675 Fax: 610-327-1967

ZONING / UNIFORM CONSTRUCTION PERMIT APPLICATION

**FOR ALL RESIDENTIAL AND/OR AGRICULTURAL APPLICATIONS,
THE APPLICATION FEE IS \$50.00 WHICH IS NON-REFUNDABLE.**

**FOR ALL NON-RESIDENTIAL APPLICATIONS,
THE APPLICATION FEE IS \$500.00 PER SUBMITTAL. THIS FEE SHALL BE APPLIED TO THE COST OF THE
PERMIT, AND ANY REMAINING BALANCE SHALL BE REFUNDED TO THE APPLICANT.**

**MAKE CHECKS PAYABLE TO
UPPER POTTS GROVE TOWNSHIP (DUE UPON SUBMISSION)**

LOCATION OF PROPOSED WORK OR IMPROVEMENT

County: _____ Municipality: _____

Site Address: _____ Tax Parcel # _____ Lot# _____

Lot Size: _____ Subdivision/Land Development: _____ Phase: _____ Section: _____

Applicant Name: _____ Address: _____ Phone # _____

Property Owner: _____ Phone # _____ Fax # _____

Mailing Address: _____ E-Mail: _____

Principal Contractor: _____ Phone # _____ Fax # _____

Mailing Address: _____ E-Mail: _____

Architect: _____ Phone # _____ Fax # _____

TYPE of WORK or IMPROVEMENT

<input type="checkbox"/> New Building	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration	<input type="checkbox"/> Repair	<input type="checkbox"/> Demolition	<input type="checkbox"/> Relocation	<input type="checkbox"/> Sign
<input type="checkbox"/> Foundation Only	<input type="checkbox"/> Change of Use		<input type="checkbox"/> Plumbing	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Other

Describe the proposed work: _____

ESTIMATED COST OF CONSTRUCTION (Reasonable fair market value): \$ _____

DESCRIPTION OF BUILDING USE (Check One)

RESIDENTIAL or ACCESSORY THERETO

- One-Family Dwelling (R-3)
- Two-Family Dwelling (R-3)

NON-RESIDENTIAL

Specific Use: _____
 Use Group: _____
 Change in Use: Yes No
 If YES, Indicate Former: _____
 Maximum Occupancy Load: _____
 Maximum Live Load: _____

BUILDING/SITE CHARACTERISTICS

Number of Residential Dwelling Units Existing: _____ Proposed: _____
 Mechanical: Indicate Type of Heating/Ventilating/Air Conditioning (i.e. electric, gas, oil, etc.) _____
 Water Service: (Check One) Public (Copy of Authority approval) Private (County Permit Approval if required)
 Sewer Service: (Check One) Public (Copy of Authority approval) Private (Septic Permit # _____)

Webpage: uptownship.org
 Email: administration@uptownship.org

Does or will your building contain any of the following:

Fireplace(s): Number _____ Type of Fuel _____ Type Vent _____
Elevator/Escalators/Lifts/Moving walks: (Check One) Yes No
Sprinkler System: Yes No
Pressure Vessels: Yes No
Refrigeration Systems: Yes No

BUILDING DIMENSIONS

Existing Building Area: _____ Sq. Ft. Number of Stories: _____
Proposed Building Area: _____ Sq. Ft. Height of Structure Above Grade: _____ Ft.
Total Building Area: _____ Sq. Ft. Area of Largest Floor: _____ Sq. Ft.

FLOODPLAIN

Is the site located within an identified flood hazard area? (Check One) Yes No
Will any portion of the flood hazard area be developed? (Check One) Yes No N/A
Owner/Agent shall verify that any proposed construction and/or development activity complies with the requirements of the National Flood Insurance Program and the Pennsylvania Flood Plain Management Act (Act 166-1 978), specifically Section 60.3

Lowest Floor Level: _____

HISTORIC DISTRICT

Is the site located within a Historic District? Yes No
If construction is proposed within a Historic District, a certificate of appropriateness may be required by the Municipality.

The applicant certifies that all information on this application is correct and the work will be completed in accordance with the "approved" construction documents and the PA Act 45 (Uniform Construction Code) and any additional approved building code requirements adopted by the Municipality. The property owner and applicant assumes the responsibility of locating all property lines, setback lines, easements, rights-of-way, flood areas, etc. Issuance of a permit and approval of construction documents shall not be construed as authority to violate, cancel or set aside any provisions of the codes or ordinances or the Municipality or any other governing body. The applicant certifies he/she understands all the applicable codes, ordinances and regulations.

Application for a permit shall be made by the *owner* or lessee of the building or structure, or *agent* of either, or by the registered design professional employed in connection with the proposed work.

I certify the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code applicable to such permit.

Signature of owner or Authorized Agent

Print Name of Owner or Authorized Agent

Address

Date

Directions to Site: _____

Approved by: _____

Permit #'s _____

REFER TO CHECKLIST TO DETERMINE ADDITIONAL APPLICATION REQUIREMENTS

(2) sets of Building Plans and a list of Materials must be submitted with the application.

A Plot Plan on a separate sheet showing size and location of all structures, either on-lot sewage or public sewer tie in, on-lot water well and distance to property lines (hand drawn is acceptable).

Please attach 2 copies of a Plot Plan on a separate sheet showing size and location of all structures, either on-lot sewage or public sewer tie in, on-lot water well and distance to property lines (hand drawn is acceptable).

REQUIREMENTS FOR OBTAINING A BUILDING PERMIT

Proof of ownership or authorized agent representing property is required.

2. The applicant must complete a Uniform Zoning/Construction Permit Application (attached). All questions must be completed since all information provided determines issuance of the permit.
3. (2) sets of Building Plans and a list of Materials must be submitted with the application.
4. A Plot Plan on a separate sheet showing size and location of all structures, either on-lot sewage or public sewer tie in, on-lot water well and distance to property lines (hand drawn is acceptable).
5. Copy of Workers' Compensation Certificate. (See Contractor Information form)
6. Copy of the Erosion and Sedimentation Plan and approval letter from the County. Depending on the area of the expanded footprint, stormwater management may be necessary. A sample worksheet is available.
7. If the application is for a New Home, a septic system permit issued by the Sewage Enforcement Officer or evidence of a tapping or connection fee being paid to the respective public sewer entity must be submitted with the application. A road crossing permit may be required for excavating to a sewer tap or water tap. Check with LTL staff for requirements in your Municipality (local and State).
8. A copy of the well permit issued by the authorized well permit department (if other than LTL), must be attached.
9. If the application is for additions involving bedrooms, Sewage Enforcement Officer must also verify by letter, the adequacy of existing on lot septic systems prior to the issuance of permit.
10. An Electrical Permit is required with all residential and commercial building permits. The application will be provided with the permit application.
11. A Plumbing Permit is required with all residential and commercial building permits. The application will be provided with the permit application.
12. A Driveway Permit is required for any new driveway. If the driveway abuts a State Route, a PennDOT Highway Occupancy Permit is required.
13. The applicant should have stakes placed at the corners where the structure is to be built. The building inspector will check this stakeout before the building permit will be issued.
14. If the proposed construction is for a non-residential building, a Land Development Plan is required.
15. If a Non-Residential building is to be constructed, the application must submit (2) sets of construction drawings to which an architect or engineer has applied his seal.

Most Permit fees are based on square footage using the rate in the Municipality schedule of Fees. Payment is required upon issuance of permit and prior to construction. All fees shall be payable to the Municipality.

Permits shall be granted or refused within thirty (30) days after the written application has been submitted and determined complete. Permits are issued for one (1) year and may be renewed annually for three (3) years.

Remember PA One-Call before excavating, simply dial 811, or www.paonecall.org.

INTERNATIONAL RESIDENTIAL CODE 2009

Residential Building Code Requirements

All inspections require at least a 24-hour advance notice. To schedule an inspection contact LTL Consultants, Ltd. at 610 987-9290 or 888 987-8886 (toll free) and the secretary will assist your request. Be prepared to provide the permit number, street address for the job site, (not the subdivision name and/or lot number), and a contact number. Inspections will be conducted in accordance with the applicable building code which is specified on the building permit. Copies of the building code are available for review at both the Township office and the office of LTL Consultants, Ltd.

The contractor should verify all building dimensions and zoning setbacks before excavation begins.

COMMONLY MISSED ITEMS

The following is a list of a few specific items which are frequently found to be deficient at the time of inspection. This is only a partial list and all construction must conform with the code.

1. **Bedroom Egress:** Emergency and rescue openings in sleeping areas must have a minimum net clear opening of 5.7 square feet. Grade level openings require a minimum net clear opening of 5 square feet. Openings shall be operational from the inside without the use of keys, tools, or special knowledge. The minimum net opening dimensions shall be 24" in height and 20" in width. The maximum sill height is 44 inches.
2. **Stairs:** All stairways must have a minimum tread of 9" (nose to nose) and a maximum rise of 8 ¼". The open sides of all stairs shall be enclosed with either a wall or proper guardrails.
3. **Handrails:** Handrails shall have a minimum height of 34" and maximum height of 38" (measured at the nose of the tread), and shall be continuous the entire length of the stairs.
4. **Guardrails:** Required guardrails shall be a minimum of 36" in height with less than 4" between spindles and are required on all raised area's where the height of the raised area exceeds 30". Open sides of stairs shall have guards not less than 34" measured vertically from the tread nosing. The guards on stairways shall not allow the passage of a 4" sphere.
5. **Smoke Detectors:** Hard wired/interconnected smoke detectors with battery back-up are required on each floor, adjacent to all sleeping areas and in all bedrooms.
6. **CO Detector:** Hard wired/interconnected CO detector required outside each bedroom area.

INSPECTIONS REQUIRED

1. **FOOTINGS - Required only for Buildings**
After forms have been set and/or trenches have been dug with all loose dirt removed; piers have been located and shaped; heights are established; all reinforcing has been placed and the total job is ready for concrete placement.

➤ **NO CONCRETE TO BE PLACED UNTIL APPROVAL IS GRANTED** <

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2. ***PLUMBING, MECHANICAL, ELECTRICAL SYSTEM INSPECTION***
Under slab and rough plumbing must be pressure tested. Inspection conducted after mechanical ducts are cut in, rough plumbing, wiring, and service installed. All components to be inspected by **LTL**.
 3. ***FRAME AND MASONRY***
Rough framing after all rough mechanicals are installed, fire stopped in all locations, but prior to installing insulation.

> NO INSULATION TO BE INSTALLED UNTIL APPROVAL
 4. ***ENERGY***
Inspection required upon completion of insulation.
 4. ***WALLBOARD***
After insulation is in place while wallboard is being attached.
 5. ***USE AND OCCUPANCY - Required for all Building Permits***
After house construction and site work are completed, driveway, patio, decks, and walks are installed; final well and on-site sewer has been obtained (w/copies provided to Township), all plumbing, lighting fixtures, appliances are in place, the heating system has been installed and is operating, and all safety items (smoke detectors, handrails, fire doors, etc.) are installed.

> NO OCCUPANCY TO BE INITIATED UNTIL APPROVAL IS GRANTED <

IMPORTANT NOTICE

Failure to adhere to the above requirements or failure in adhering to the adopted Building Code could result in a STOP WORK order, rework of construction or non-issuance of a final inspection certificate. The use of a structure without a final inspection certificate or working on a structure while a STOP WORK order is in effect would result in fines for every day in violation.