



TOWN OF PELHAM

6 Village Green
Pelham, New Hampshire 03076-3723

Adopted April 1, 2002

MEMORANDUM

TO: Electrical Contractor/Home Owner
FROM: Timothy Zelonis & Assistant Electrical Inspectors
SUBJECT: Basic Minimum Electrical Requirements for the Town of Pelham, NH

ANY ELECTRICAL PERMIT ISSUED ON OR AFTER JAN 1, 2002

- A. "ALL" inspections must be called into the Planning Department at 635-7811 for log in purposes by the **LICENSED ELECTRICIAN** or homeowner performing the installations **ONLY**.
1. Any questions pertaining to electrical installations shall be in writing and faxed (635-6954) to or left at the Planning Department. All questions shall be answered within 2 business days.
- B. All wiring shall be in accordance with the NEC 2002 Edition. (As of July 1, 2002)
1. Exception: AFCI Article 210.12 A & B (January 1, 2002)
- C. NOTE: EXECUTION OF WORK (90-4 & 110-2)
- D. Only State of New Hampshire Master Electrician will be allowed to draw electrical permits. Home owner permits are permitted but ALL work must be installed by homeowner. This does not allow others to be compensated for work performed. (State of NH 319-c:1)
Notes: (State NH 319-c: 1)
1. All personnel on site engaged in making electrical installations shall be a state of NH Licensed Master or Journeyman Electrician.
 2. (State of NH 319-c2) Any person engaged in learning and or assisting in making electrical installations shall be a State of NH registered apprentice electrician and under **direct** supervision of a Master or Journeyman Electrician.
 3. Under NO circumstance shall any electrical installations be installed prior to obtaining an electrical permit unless of an emergency nature. Otherwise a fine shall be implemented of not less than twice the cost of the permit.
- E. Additional permitting may be required as per Fire Department including but not limited to oil and gas burners, fire alarms, smoke detectors, etc.



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All new construction – service changes – service upgraded must obtain a servo number from National Grid (800-375-7405) PRIOR to applying or receiving an electrical permit. All service changes are REQUIRED to have a disconnect/reconnect appointment with National Grid.

Reconnect inspections will require a 48 hr. notice with Town Hall (with the exception of emergencies only)

1. Temporary services shall be required to obtain a separate individual servo number, electrical permit and shall be installed in accordance with National Grid typical temporary service instructions and diagrams provided. (see attached)
2. SEU Cable is NOT allowed to be used for electrical services.
 - A. Exception: Temporary Services
3. All services will be installed in one of the following: rigid metal conduit, IMC, EMT, or PVC. Flexible metal conduit is allowed from meter to panel board inside the dwelling.
 - A. Piping shall be installed from meter socket to panel board.
 - B. PVC risers for underground services are allowed where not subject to physical damage (ex. driveways) All PVC risers will have expansion couplings as required. Rigid or schedule 80 PVC are required where subject to physical damage.
4. Bonding bushings are required on any metal fittings.
5. If an external disconnect switch is required SER Cable shall be permitted upon entry of the interior of a building to a service panel.
6. Two (2) ground rods shall be installed a minimum length of 8'. Rods must be installed internal or external of a building 6' apart and shall not have less than a #6 copper grounding conductor for a minimum size, which shall be sleeved in either PVC or EMT with approved grounding connectors "only".
7. Over Head Service Drops:
 - A. Conduits shall not be less than 1 ¼" in size for 100 amp services and not less than 2" for 200 amp services.
 - B. A service requiring a mast type installation shall be done in rigid metal conduit of not less than 2 ½" galvanized and a guide wire shall be installed on all installations "**regardless of height**".
8. All underground services will be inspected prior to being covered up. Safety warning tape shall be installed minimum of 12" above pipes.



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9. To receive permanent service: one GFCI protected service outlet shall be installed at panel and all grounding complete, with water bonding in place.
 - A. Gas pipe bonding as of 2002 is no longer a requirement.
10. Panel board shall be installed at the nearest **reasonable** point of entry within a building.

Definition: Reasonable – four (4) to eight (8) feet from point of entry of a building.
11. Arc fault circuit protection will be required as of January 1, 2002 per the 1999 National Electric Code.
 - A. Article – 210.12 A & B
12. **All** ceiling boxes installed where it is possible for a ceiling fan to be installed will be a box accepted for such use, including **all** bedroom ceiling boxes, shall be a box approved for such use.
13. All post lights as well as post light **provisions** will be GFCI protected.
14. Electrical inspections as follows:
 - A. Service Inspections overhead or underground will be one inspection complete with GSE approved meter location tag in place only.
 1. Service hookups will be permitted only if siding is in place and meter socket and conduits permanently attached to building.
 - B. Rough inspections prior to insulation or wallboard installed shall consist of:
 1. All boxes made up with grounds shall be properly attached with approved connectors and other conductors spliced and prepped for device installation.
 2. Water system bonding in place
 3. Attic lighting and cellar lighting roughed in.
 4. Rough wiring for smoke and/or heat detectors as required as per local Fire Department codes.(call (603) 635-2703)
 - C. Final inspection will include:
 1. All switches – outlets with covers installed;



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2. Light fixtures or properly wire nuted and covered boxes in ceiling;
 3. Properly marked panel boards directory;
 4. Smoke detectors tested and in working order;
 5. GFCI and AFCI installed, tested and in working order.
 6. Oil or gas burners both with fireomatic switches, service switches and emergency switches properly marked and in correct locations. (check with Fire Department if you have any questions at (603) 635-2703);
 7. Pump service switch and lock-out safety device installed on all water supply pumps and sewage efficient pumps;
15. Code reminders:
- A. GFCI Protection for personnel 210.8 A 1-8 & B 1-3
 - B. AFCI – Arc-fault circuit interrupter protection 210.12 A & B
 - C. Receptacle outlets 210.50 – 210.63
 - D. Lighting outlets 210.70
 - E. Cables to framing 300.4
 - F. Underground installations 300.5
 - G. Receptacles, cord connectors & attachments plugs 406
 - H. Panel boards 408
 - I. Luminaries (lighting fixtures) lamp holders & lamps 410

NOTE: Anyone choosing not to follow these regulations will be subject to a \$25 fine/reinspection fee to be paid PRIOR to a reinspection be performed (note: Reinspections will be performed within two business days from the time of corrections being complete.