



I certify that I have received a copy of these regulations and will comply with the regulations contained herein.

Name

Date

**INSPECTIONAL
SERVICES DIVISION
630-823-5860**

VILLAGE OF HANOVER PARK FIRE DEPARTMENT

Electrical Service Upgrades

GENERAL REQUIREMENTS FOR ELECTRIC SERVICE UPGRADES

All electrical work shall comply with all requirements of the currently adopted National Electrical Code, ComEd electrical service requirements and all amendments of the Village of Hanover Park. The following list shall serve as a reminder to avoid problems when you call for an inspection.

1. All contractors doing work in the Village of Hanover Park must be licensed and bonded with the Village prior to starting work. Permits will not be issued unless all contractors noted on the permit are licensed and bonded. At any time during the permit approval process or during construction after permit is approved and issued a decision is made to change any contractor listed on the application, a Change of Contractor form must be completed and submitted to the Village. Verification of the new contractor's license and bond status as current must be confirmed by the Village before work on the project can resume.
2. Please call the Joint Utility Locating Information for Excavators (J.U.L.I.E.) at least 48 hours prior to any digging. Please call 1-800-892-0123.
3. Provide two (2) copies of a building plan, survey or sketch locating the panel. The panel cannot be installed in a closet or bathroom.
4. Service conductors lowest point of bottom of drip loop \geq 10 ft. to ground below—same as areas accessible only to pedestrians. Service conductors \geq 12 ft. above residential driveways. Service conductors \geq 18 ft. above public streets. Service conductors \geq 8 ft. above roofs with $<$ 4:12 and service conductors \geq 3 ft. above roofs with \geq 4:12 (including garage roofs).
5. Provide additional vertical and horizontal clearance, \geq 6 in. horizontal clearance from roof eave(s) or gutter(s) to service head, \geq 3ft. below or to sides of open able windows
6. Metal Mast additional code requirements when it is used as the attachment point: Provide Vertical and Horizontal clearances— Service conductors lowest point of bottom of drip loop \geq 18 in. above roof shingles. Metal Masts shall be sized according to size of overhead electrical service. For a 100A service, the size of mast is 2.5 in—RMC or IMC. For larger services, use 3.0 in—RMC or IMC
7. Provide a service clearance area 30 in. wide by 36 in. measured from front edge of panel
8. Above decks and balconies—10 ft. out to 3 ft. horizontal.
9. Other clearances may apply (to pool, hot tub, A/C condenser, gas meter, venting pipes — contact Building Inspector and ComEd for details.
10. Service Equipment Location—code requirements apply to all equipment configurations: Must be readily accessible, the Electric Meter mid-point elevation shall be 30in to 60in above finished grade, the maximum height permitted for the grip of the operating handle of the main disconnect above finished grade/floor is 6ft.-7in. (same for main breaker pole), shall be \geq 36in. from gas meter—from service equipment enclosure edge to gas meter edge, shall be \geq 36in. radius from any equipment venting outlet of any equipment, such as, A/C condenser and shall be so located to allow a service area \geq 36 inches from the service enclosure cover by \geq 30 inches wide.
11. If the distance from the meter to the panel is greater than five (5) feet an exterior disconnect will be required.
12. A 30 inch wide by 36 inch deep space shall be maintained if front of the panel.
13. The minimum size electrical panel in the Village of Hanover Park is 100 amps or the calculated load size, however a 200 amp panel is recommended and larger panels may be required. It is also recommended that you install a panel with as many positions for breakers as possible. No panel shall be more than 80% full when new.
14. Label the panel to show circuits supplied by each breaker.

15. Provide a ground wire from the panel to the village side of the water meter with a continuous jumper and clamp at each side of the water meter.
16. Provide an eight (8) foot driven ground rod at the electric meter that is bonded to the neutral in the meter box.
17. Provide jumpers at the water heater across the cold water, hot water and gas piping.
18. Service conductors shall be sized to meet the code. Use #3 copper for 100 amp, 1/0 for 150 amp and 3/0 for 200 amp.
19. GFCI and ARC-Fault protected receptacles shall be required per the currently adopted NEC.
20. Smoke detectors shall be installed according the State code 502.A with the addition of the following: Smoke detectors shall be dual voltage type (120V with battery back-up) and wired in series, are required on all levels, and in every bedroom. 120V smoke detector shall be installed by all heating units in unoccupied areas (attics, crawl spaces, basements, etc.) Conduits to smoke detector shall be sealed to avoid condensation problems in detector.
21. Carbon monoxide alarms detectors are required effective January 1, 2007 in all new buildings containing bedrooms and sleeping facilities are required by Public Act 094-0741 based on the following criteria: A dwelling unit means a room or suite of rooms used for human habitations, and includes single family residences, multiple family residences and mixed use buildings. Every dwelling unit must be equipped with a least one operable carbon monoxide alarm within 15 feet of every room used for sleeping purposes. If a structure contains more than one dwelling unit a carbon monoxide alarm must be installed within 15 feet of every sleeping room in each dwelling unit. The carbon monoxide alarm may be combined with smoke detecting devices provided the unit complies with respective standards and the alarm differentiates the hazard. The owner of the property must supply and install all required alarms. A landlord must ensure that the alarms are operable on the date of initiation of a lease. The tenant is responsible for testing, battery replacement and maintaining the carbon monoxide alarm after the lease commences. A landlord is required to furnish one tenant per dwelling unit with written information regarding alarm testing and maintenance. Willful failure to install or maintain in operating condition any alarm is a Class B criminal misdemeanor. The Act does exempt certain residential units from the requirement: Those residential units in a building that do not rely on combustion of fossil fuel for heat, ventilation or hot water; is not connected to a garage is not sufficiently close to any ventilated source of carbon monoxide to receive carbon monoxide from the source and a residential unit that is not sufficiently close to any source of carbon monoxide so as to be at risk of receiving carbon monoxide from that source all as determined by the local building official shall NOT require carbon monoxide detectors.

To request an inspection, contact the Fire Department's Inspectional Services Division at 630-823-5860 at least twenty-four (24) hours in advance.

Inspection Requirements

1. A NAMEPLATE indicating the manufacturer, phase, voltage, frequency, and required electrical specifications.
2. A TESTING LABORATORY LABEL indicating that the unit has been tested and approved by a qualified electrical testing laboratory, such as Underwriter's Laboratory.
3. No E.M.T. conduit is to be used outdoors, unless treated as per Section 300-6 of the National Electric Code. IMC and heavy wall are preferred materials.
4. The Inspector will verify that the unit has been installed in compliance with the requirements on the nameplate and/or label. **The Inspector must enter the home to inspect the service panel; therefore, the homeowner must be present for the inspection.**



Hanover Park ^{USA}

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