



Electrical Service Upgrades

Permit Application Requirements

Complete permit application, online or in-person.

If a contractor is hired, the contractor must register and bond with the Village of Hanover Park. Include a copy of their proposal with the application. If owner is doing the work, then the owner shall provide a scope of summary, list of materials and sign an owner Affidavit.

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.

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.

Provide plans or sketch locating the panel and one-line electrical diagram of proposed work.

Construction Requirements

Service conductors lowest point of bottom of drip loop shall be ≥ 10 ft. to ground below—same as areas accessible only to pedestrians. Service conductors must be ≥ 12 ft. above residential driveways. Service conductors must be ≥ 18 ft. above public streets. Service conductors must be ≥ 8 ft. above roofs with $\geq 4:12$ and service conductors must be ≥ 3 ft. above roofs with $\geq 4:12$ (including garage roofs).

Provide additional vertical and horizontal clearance, ≥ 6 in. horizontal clearance from roof eave(s) or gutter(s) to service head, ≥ 3 ft. below or to sides of open able windows.

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 ≥ 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.

Provide a service clearance area 30 in. wide by 36 in. measured from front edge of panel

Above decks and balconies—10 ft. vertical clearance out to 3 ft. horizontal.

Other clearances may apply: to pool, hot tub, A/C condenser, gas meter, venting pipes—contact Building Inspector and ComEd for details.

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 ≥ 36 in. from gas meter—from service equipment enclosure edge to gas meter edge, shall be ≥ 36 in. radius from any equipment venting outlet of any equipment, such as, A/C condenser and shall be so located to allow a service area ≥ 36 inches from the service enclosure cover by ≥ 30 inches wide.

If the distance from the meter to the panel is greater than five (5) feet an exterior disconnect will be required.

A 30 inch wide by 36 inch deep space shall be maintained if front of the panel.

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.

The panel cannot be installed in a closet or bathroom.

Label the panel to show circuits supplied by each breaker.

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.

Provide an eight (8) foot driven ground rod at the electric meter that is bonded to the neutral in the meter box.

Provide jumpers at the water heater across the cold water, hot water and gas piping.

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.

GFCI and ARC-Fault protected receptacles shall be required per the currently adopted NEC.

Smoke detectors and carbon monoxide detectors shall be installed and meet current state law and requirements of the currently adopted codes.

Provide an exterior emergency service disconnect.

Provide new service with a surge protection device.

Inspections

A minimum of 24-hour notice is required for all inspections. To schedule an inspection, or if you have any questions, please contact the Fire Department's Inspectional Services Division at 630-823-5860.

The Inspector must enter the home to inspect the service panel; therefore, the homeowner and/or contractor must be present for the inspection.