



*At the Heart of Community*

# Electrical

Service Upgrade & Panel Replacement

## Rules & Restrictions

\*All installations shall comply with the 2017 National Electric Code and the 2021 International Building Codes.

\*Proper grounding is required for the installation of all new electric services, panel replacement, all electric wiring and/or repairs. This may mean making changes to your existing grounding and bonding systems.

\*Two 8' burial depth copper ground rods are required on the exterior of the house with the proper sized ground wire going to your metal socket. Ground wires are sized to the wire used in the service entrance. A ground wire is also required on the inside of your house between the main disconnect panel and the water service on the street side of the water meter. In conjunction with this ground wire there should also be a bonding jumper across the water meter.

\*Submit a picture of existing electrical panel & panel schedule.

\*If primary purpose relates to vehicle charger, submit details including the EV charge specs & electrical load calculation.

## What to Submit

\*Completed application.

\*Provide list of circuit breakers in main, sub-panels and an electrical load calculation.

\*Provide additional information and drawings showing locations, clearances, unusual installations, etc.

Service Size (amp)  100  200  400  \_\_\_\_\_

Service Entrance  Overhead  Underground

Service Entrance Conduit Size \_\_\_\_\_ in  IMC  RMC  HWA

Service Entrance Wire Size \_\_\_\_\_ ga  Copper Only

Main Disconnect Located  In main panel  At meter socket

Distance from Disconnect to Main Panel \_\_\_\_\_ ft (over 5' RMC required)

Service Ground Wire Water Service Jumper & Ground Wire  100 A - (#8 minimum)  200 A - (#4 minimum)  
 400 A - (1/0 minimum)

I have read and reviewed these requirements. \_\_\_\_\_

Signature of Applicant

Date

## Costs

-Plan Review Fee

-Permit Fee (fee determined at plan review)

\$500.00 Building Deposit  
-refunded in accordance with Municipal Code Title 8, Chapters 2-6, Sections A-E. Allow 4-6 weeks for refund after final inspection has taken place.

\*If final inspection is not scheduled and approved prior to expiration date on permit, the building deposit will be forfeited to the Village.

## Note:

\*If an inspector needs to return more than once for the same phase of any required inspection, a \$100.00 residential re-inspection fee or a \$200.00 commercial re-inspection fee will be required to be paid before the re-inspection takes place.

## Inspections

\*Inspections are scheduled for A.M. or P.M. Monday through Friday with 48 hours advance notice. Same day re-inspections are not available.

\*Rough inspection

\*Final inspection