



Kaysville City

Application

Resident _____

Address/Lot _____

Electrical Service Upgrade to a maximum of 200 amp

Existing service size _____ New service size _____

- A main disconnect must be installed at the meter base on the exterior of the home.
- Service conductor sizing must comply with per table E3603.1. (below)
- You will receive credit for the existing service size. Any additional size will be charged accordingly as determined by the consolidated fee schedule and applicable permit fees.
- Any service size larger than 200 amp must be addressed individually.

Kaysville City, Title 10 Electric Power and Light (Per Kaysville City Title 10 Electric Code)

10-2-7 Overhead Service Attachment up to a utility pole.

If the overhead service is routed **up to a utility pole**, the following materials must be provided:

- Minimum 30 feet of metal conduit
- Minimum 6 inches of standoffs to secure the conduit to the pole
- An approved weatherhead
- Service entrance wire must be installed with sufficient slack for utility connection
- The first 10 feet of conduit must be installed on the pole, with standoff bracket
- The remaining conduit, standoffs, and weatherhead must be on site and readily available
- All components must be installed and secured per code

10-2-8 Overhead Service Masts on the side of the house. Service attachment of adequate strength to ensure that the service is securely attached to the building or other structure shall be provided by the customer. A service mast shall be used on all single-story structures and shall extend through the roof of said structure and shall be at least two inch (2") rigid conduit. Where a service mast extends through the roof on any structure, it shall be at least two inch (2") rigid conduit with no couplings above the eaves.

If the overhead service runs up the **side of the house**:

- The conduit must run completely to the required attachment height
- Properly installed brackets and supporting hardware must be used
- An approved weatherhead must be installed
- Service entrance wire must be installed with sufficient slack for utility connection

10-2-9 Underground Service Duct. Underground service conductors shall be installed in two inch (2") or larger rigid conduit and rigid elbow with all couplings threaded or two inch (2") or larger intermediate conduit and intermediate elbow with all couplings threaded at the service entrance riser, and in two inch (2") or larger PVC Western Standard or other approved electrical conduit with all joints glued and attached from the elbow to within 18" of the pedestal or distribution transformer

CONDUCTOR TYPES AND SIZES-THHW, THW, THWN, USE, RHW, XHHW, RHW-2, THW-2, THWN-2, XHHW-2, SE, USE-2, (Parallel sets of 1/0 and larger conductors are permitted in either a single raceway or in separate raceways)		SERVICE OR FEEDER RATING (AMPERES)	MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE ^a	
Copper (AWG)	Aluminum and copper-clad aluminum (AWG)	Maximum load (amps)	Copper (AWG)	Aluminum (AWG)
4	2	100	8 ^b	6 ^c
3	1	110	8 ^b	6 ^c
2	1/0	125	8 ^b	6 ^c
1	2/0	150	6 ^c	4
1/0	3/0	175	6 ^c	4
2/0	4/0 or two sets of 1/0	200	4 ^d	2 ^d
3/0	250 kcmil or two set of 2/0	225	4 ^d	2 ^d
4/0 or two sets of 1/0	300 kcmil or two sets of 3/0	250	2 ^d	1/0 ^d
250 kcmil or two sets of 2/0	350 kcmil or two sets of 4/0	300	2 ^d	1/0 ^d
350 kcmil or two sets of 3/0	500 kcmil or two sets of 250 kcmil	350	2 ^d	1/0 ^d
400 kcmil or two sets of 4/0	600 kcmil or two sets of 300 kcmil	400	1/0 ^d	3/0 ^d

Please provide a one-line electrical diagram that includes the conduit size, conductor size, the grounding of service conductors, the location of overhead or underground service, the existing amps, and requested amps.