

# Residential Electric Service Description

Jobsite Address: \_\_\_\_\_  
Street Address & City/Township

**Project Scope:**  Temporary Service  Permanent Service  
 New  Repair  Replacement  Upgrade from \_\_\_\_\_ Amp to \_\_\_\_\_ Amp

**Service Type (From Utility Connection to Meter Base):**

Overhead  (Conduit Size: \_\_\_\_\_ inch and Type:  PVC  Rigid) or  N/A  
 Underground  Direct Bury Wire Depth \_\_\_\_\_ inch or  Conduit Size \_\_\_\_\_ inch & Depth \_\_\_\_\_ inch

**Distance From Utility Connection to Meter Base:** Distance \_\_\_\_\_ ft.

**Phase:**  Single Phase  Other \_\_\_\_\_ **Voltage:**  120/240V  Other \_\_\_\_\_

**Amperage:**  100 Amp  200 Amp  400 Amp  Other \_\_\_\_\_ Amp

**Main Distribution Panel Location:**  Garage  Basement  Addition  Utility Room  Pedestal  Pole  Other \_\_\_\_\_

**Wire Size & Type:** Service Conductors \_\_\_\_\_ [Wire Size]  Copper  Aluminum

(NEC 310.10 A) Insulated conductors and cables used in DRY LOCATIONS shall be any of the types identified in this code.

(NEC 310.10 B) Insulated conductors and cables used in DRY AND DAMP LOCATIONS shall be of types FEP, FEPB, MTW, PFA, RHH, RHW, RHW-2, SA, THHN, THW, THW-2, THHW, THWN, THWN-2, TW, XHH, XHHW, XHHW-2, Z, OR ZW.

(NEC 310.10 C) Insulated conductors and cables used in WET LOCATIONS shall comply with one of the following: (1). Be moisture-impervious metal-sheathed, (2). Be types MTW, RHW, RHW-2, TW, THW, THW-2, THHW, THWN, THWN-2, XHHW, XHHW-2, or ZW. (3) Be of a type listed for use in wet locations.

(NEC 310.10 D) Insulated conductors or cables used where exposed to direct rays of the sun shall comply with the following: (1). Conductors and cables shall be listed, or listed and marked, as being sunlight resistant. (2). Conductors and cables shall be covered with insulating material, such as tape or sleeving, that is listed, or listed and marked, as being sunlight resistant.

Will comply with section(s) (NEC 310.10 A,B,C,&D)

**Grounding Electrode System** (NEC 250.50)

All grounding electrodes as described in 250.52(A)(1) through (A)(7) that are present at each building or structure served shall be bonded together to form the grounding electrode system. Where none of these grounding electrodes exist, one or more of the grounding electrodes specified in 250.52(A)(4) through (A)(8) shall be installed and used.

**Describe system:** (check all that apply)

Metal Underground Water Pipe  Ground rod AND Supplemental Ground rod 6' Apart Min.

Concrete Encased Electrode  Other \_\_\_\_\_

Grounding Electrode Conductor #1 \_\_\_\_\_ [Wire Size]  Copper  Aluminum

Grounding Electrode Conductor #2 \_\_\_\_\_ [Wire Size]  Copper  Aluminum

**Continuous Grounding Electrode Conductor.** (NEC 250.64 C)

Grounding electrode conductors shall be installed in one continuous length without a splice or joint.  Will comply

**Warning Ribbon:** (NEC 300.5 (D)(3))

Underground service conductors that are not encased in concrete and that are buried (18") or more below grade shall have their location identified by a warning ribbon that is placed in the trench at least (12") above the underground installation.

Warning Ribbon will be used.  N/A

**Bonding for communication systems.** (NEC 250.94 B)

Connections to an aluminum or copper bussbar not less than ¼" thick X 2" wide and of sufficient length to accommodate at least 3 terminations for communication systems in addition to other connections. The busbar shall be securely fastened and shall be installed in an accessible location.

Exception: Means for connecting intersystem bonding conductors are not required where communications systems are not likely to be used.

Bonding for communications systems will be used.  Bonding for communications systems will NOT be used.

Printed Name \_\_\_\_\_

Date \_\_\_\_\_