Installation of new electric service to an empty parcel/lot or extending a transformer to within 150' of proposed meter location. This includes installing a permanent branch, addition, continuation or replacement of the District's existing electric distribution system required to serve a proposed customer load.

Customer Responsibilities

- Provide, install and maintain all required service entrance equipment.
- Provide and install the primary and secondary conduit per standard drawings.
- Provide and install communication conduit per standard drawing.
- Furnish trenching and backfill of conduits per standard drawing.
- Trench inspection by Douglas County PUD field representative.
- Electrical Inspection application and inspection through Washington State Department of Labor and Industries.

Applicable Standard Drawings

Please review the following standard drawings attached before starting construction. Drawings contain important information required for your project.

- Trenching & Conduit Requirements
- Transformer Pad Excavation/Conduit Installation
- Underground Service to Building or Overhead Service to Building
- Overhead Service Wire Misc Requirements
- Preferred Meter Base Location
- Single Phase Meter Base Requirements

Fees - Contribution In Aid of Construction (CIAC):

A customer is required to pay for a line extension in advance of construction. The CIAC will be calculated based on approved engineering plans, and may include primary cable, vaults, junction cabinets, switches, transformers and other associated facilities. Costs may also include relocation of existing electrical facilities, professional engineering design services and other costs including, but not limited to the cost of permits, easements, road crossings, clearing and any other special costs to provide service. The CIAC does not give the customer ownership rights of any facilities constructed with these funds.
Easements and Permits

Before installation of any poles or equipment, or commencement of any work, all easements and permits must be executed and on file with the District.

The customer will provide the necessary signatures on easement forms prepared by the District and will furnish such easements to the District. An easement is required from owner(s) of all properties that District facilities will cross, in addition to the property being served. The Customer, at the customer’s expense, and to the satisfaction of the District, shall secure all necessary easements.

Trenching in a public right-of-way or crossing under a public roadway requires a roadway use permit from the governing jurisdiction. This must be applied for and issued to the licensed and bonded contractor doing the work in the right-of-way. The Customer is responsible for all fees associated with this permit. No work in the right-of-way shall be performed until this permit has been secured. The customer may be required to provide a copy of the permit prior to District work commencing.

Tree Clearing

The customer shall remove all trees and brush from the power line easement, which will be maintained by the District in the future. District personnel will approve the clearing before the job is released for construction. When clearing is needed in a public right-of-way, the District’s tree clearing personnel will do the clearing.

Inspections

Electrical installations must be applied for and inspected by the Washington State Department of Labor and Industries Electrical Inspector AND a Douglas County PUD field representative prior to energizing the service. The customer (or customer’s electrician) is responsible for meeting all of the requirements for temporary and permanent service equipment in compliance with the NEC (National Electric Code), WAC (Washington Administrative Code) and any other federal, state and local codes and ordinances that apply to the project. The Washington State Department of Labor and Industries Electrical Inspections Department can be reached at 509-886-6500, the 24 hour inspection line is 509-886-6520.

Meter Base Location

The meter base must be located on the outside of the structure and in an area that will allow for unrestricted access by District personnel. Meter bases are not allowed in areas subject to being enclosed or fenced in (patios, decks, porches, breezeways). Typically, this is the front one-third of the home that faces the street or driveway. All meters must be located 5'-6' above finish grade. Recessed or flush mounted meter bases are NOT allowed.
CONDUIT & INSTALLATION

- All material supplied by Customer unless otherwise noted.
- All power conduit shall be 3" schedule 40 gray electrical PVC.
- Sweeps shall be 36" minimum radius and kept to a minimum. Back to back sweeps are not allowed.
- Backbone communication conduit shall be 2" gray schedule 40 PVC. Install 2" gray schedule 40 PVC from Douglas County PUD transformer, handhole or pole location to home/business.
- Tape or cap ends of power conduit to prevent material from entering.
- Conduit fittings and joints shall be Installed clean, square and thoroughly glued.
- Provide pull string in conduit. String shall pull freely and shall not be glued to conduit.
- Cap ends of communication conduits (no glue, please).

TRENCHING

- Customers are to provide trenching, backfilling and compaction in accordance with Douglas County PUD standards.
- Trench shall be as straight as possible.
- Backfill with a minimum 3 inch layer of clean backfill, rocks no larger than 1 inch and no sharp objects placed over conduits. (clean native backfill meeting the aforementioned standards is acceptable).
- Trench shall be free of trash and frozen or organic material and be thoroughly compacted throughout.
- Trenching in a public right-of-way or crossing under a public roadway requires a roadway use permit. This must be applied for and issued to the licensed and bonded excavation contractor who will perform all work in the public right-of-way.

SPECIAL NOTES

CALL BEFORE YOU DIG! 811

ALL CONDUIT MUST BE INSPECTED BEFORE COVERING. CALL DOUGLAS COUNTY PUD AT 881-2366 TO SCHEDULE INSPECTION.
CALL 686-4501 FOR AN INSPECTION IN THE BRIDGEPORT AREA INCLUDING ALL AREAS NORTH AND EAST OF WITHROW.

DO NOT INSTALL CONDUITS INTO EXISTING TRANSFORMERS, HANDHOLES, VAULTS OR ANY ENERGIZED EQUIPMENT
If no bracket exists at pole, stub conduit up to within 8" (but no closer than 6") of pole at a preferred quadrant location.

CONDUIT STUB UP AT POLE

Primary conduit will enter at left side of transformer

HAND DIG WHEN WITHIN 3 FEET OF AN ENERGIZED TRANSFORMER, TAKE CONDUIT TO THE BASE OF THE TRANSFORMER - DOUGLAS COUNTY PUD PERSONNEL WILL SWEEP INTO TRANSFORMER AT TIME OF INSPECTION.

CONDUIT STUB AT ENERGIZED TRANSFORMER

36" MIN RADIUS SWEEPS

45°

CONDUIT RISER BRACKET
STUB UP POWER CONDUIT HERE AND CAP

CONDUIT RISER

30° POLE SLOPE

3" POWER CONDUIT

36" SECONDARY
48" PRIMARY

6" to 8"

DCPUD POWER POLE

DCPUD TO INSTALL RISER

12"
GENERAL NOTES
- Excavation & conduit installations must be inspected by Douglas County PUD representative.
- Pad area is to be select backfill and firmly tamped.
- Cap all conduit stubs.
- Douglas County PUD will supply and install all grounding materials.

SINGLE PHASE TRANSFORMER

PLAN VIEW - EXCAVATION AREA

FRONT

6'

6'

TOP VIEW

BURY ALL BUT TOP 6" OF PAD

APPROX. 2'-2"

FIBERGLASS TRANSFORMER PAD/BOX (TBX)

SECONDARY CONDUIT

PRIMARY & SECONDARY CONDUITS MUST STUB UP IN THE FIRST 14" OF THE FRONT SIDE OF THE TBX.

14"

8" MIN

TOP VIEW

DOUGLAS COUNTY PUD

RESIDENTIAL CONSTRUCTION STANDARDS

TRANSFORMER PAD EXCAVATION/CONDUIT INSTALLATION

APPROVED:

REV DATE 06/18/15

PAGE 1 OF 1

RCS-002
GENERAL NOTES

- All equipment furnished and installed by customer or customer's electrician unless otherwise noted.
- The meter base must be inspected by the Washington State Department of Labor & Industries Electrical Inspector and approved before service conductors can be installed. Permit and inspection sticker must be displayed.
- Meter base and conduit must be installed on an outside wall. Recessed (flush mount) meter bases are NOT allowed.
- Consult an electrician or Washington State Department of Labor & Industries Electrical Inspector for current NEC guidelines for service entrance, meter base and grounding codes.
GENERAL NOTES

- All equipment furnished and installed by customer or customer's electrician unless noted otherwise.

- The meter base must be inspected by the Washington State Department of Labor & Industries Electrical Inspector and approved before service conductors can be installed. Permit and inspection sticker must be displayed.

- Meter base and conduit must be installed on an outside wall. Recessed (flush mount) meter bases are NOT allowed.

- If the service mast is located within 4 feet of roof edge, service wire must maintain a minimum clearance of 18" from the roof top within a 6' radius. Beyond a 6' radius, consult Douglas County PUD for minimum clearance.

- If service mast is located more than 4 feet from the roof edge, service wire must maintain minimum clearance of 3 feet from the roof top.

- Service mast must be tall enough to provide required clearances from the ground to service conductors everywhere in the span (refer to spec RCS-007, Overhead Service Wire Misc Requirements).

- Consult an electrician or Washington State Department of Labor & Industries Electrical Inspector for current NEC guidelines for service entrance, meter base and grounding codes.
REQUIRED CLEARANCES FOR OVERHEAD SERVICE WIRE

CLEARANCES BETWEEN OVERHEAD UTILITIES - METER POLE

APPROVED DEADEND BRACKET TYPES
(OVERHEAD WIRE ATTACHMENT)
METER BASE LOCATION

Your meter base must be located:

- Outside of the home.
- On the front 1/8 of your home closest to normal public access.
- In an area that is NOT subject to being fenced in or enclosed (patio, deck, carport, backyard, under stairway).
- In an area not subject to damage from vehicles.
- On a structure that is owned by you.
- All meters must be mounted between 5' to 6' above finish grade.
- In an area where Douglas County PUD personnel can safely obtain access for reading, testing and disconnecting in emergency situations.

GENERAL NOTES

- Recessed or flush mount meter bases are NOT acceptable.
- Clear working space of 3' deep in front of the meter is to be maintained and kept clear of obstructions including landscaping, decks, air conditioners etc.
- 20" minimum horizontal and vertical clearance must be maintained between the center of any meter and any obstruction.
- Enclosing residential meter bases is not acceptable.
- Consult an electrician or Washington State Department of Labor & Industries Electrical Inspector for current NEC guidelines for service entrance (meter base) and grounding codes.

DOUGLAS COUNTY PUD

RESIDENTIAL CONSTRUCTION STANDARDS

PREFERRED METER BASE LOCATION

APPROVED: ____________________

REV DATE 06/18/15

PAGE 1 OF 1

RCS–013
### SOCKET CLIP ARRANGEMENTS

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### GENERAL NOTES

The meter base/socket you purchase and install shall meet the following general requirements:
- Be Underwriters Laboratories (UL) approved.
- Meet the standards of EUSERC.
- Be rated for exterior use and be rain-tight according to NEMA-3R.
- Have all unused openings tightly sealed from the inside of the socket.
- Be plumbed and securely fastened to the supporting structure.
- Have a cover that is securely attached to the meter base/socket case.
- Meter base shall NOT be enclosed or recessed.

**NOTE:** Meter base/socket shall not be used as a junction box.

Meter bases/sockets for 200A underground services shall:
- Be rated for 120/240 V and 200 A.
- Contain four meter jaws and one connection point for the neutral conductor.
- Be at least 4-1/4 inches deep, 11 inches wide, and 14 inches high.
- Accept 2-1/2-inch PVC conduit.
- Have lugs (electrical connectors) that are marked to accept 4/0 aluminum conductors.

Meter Bases/sockets for 400A underground services shall:
- Be rated for 120/240 V and 320 A continuous current.
- Contain four meter jaws and one connection point for the neutral conductor.
- Contain a Class 320 link type manual bypass. Lever type bypasses are not allowed.
- Have lugs that will accept 350 MCM aluminum wire.

Single phase services over 400A require CT metering and additional different equipment, see spec RCS-015, Single Phase CT Metering, and spec CI3-004, CT Metering Arrangement.