



Electrical Service Requirements

TEMPORARY SERVICE

TABLE OF CONTENTS

CHAPTER ONE - INTRODUCTION

- Inspections and codes
- Underground Utility locates
- Meter socket requirements

CHAPTER TWO - TEMPORARY OVERHEAD SERVICE

- Meter location
- Clearance requirements

CHAPTER THREE - TEMPORARY UNDERGROUND SERVICE

- Temporary service location
- Trenching requirements

***Note:** New services (as well as rewires or panel upgrades) require engineering and construction time that may take as long as twelve (12) weeks. Normally, there are fees for establishing service, and these must be pre-paid. Electrical inspections and approval are required prior to the PUD energizing any service.*

CHAPTER ONE

INTRODUCTION

This handbook provides you with the necessary information you need to request and obtain a temporary service.

Snohomish County Public Utility District #1 (PUD) defines a temporary service as “a means of supplying electricity to your construction site for a maximum of 18 months.” Typically, a temporary service is installed to provide power for the construction phase of your project while provisions are being made for your permanent power system.

Several items need to be completed before we can energize your temporary service. They are:

- ❑ Call the PUD at **425-783-8272** and ask to speak to a Designer to determine whether or not you have overhead or underground service available;
- ❑ Install your service equipment;
- ❑ Obtain a state or city electrical inspection and approval of your service equipment;
- ❑ Obtain a service inspection approval from PUD;
- ❑ Pay fees.

The remainder of this document will assist you with this process. If you have any questions, please call the PUD at the number above and ask to speak to a Designer for information on permanent services. You may also check our website at **snopud.com/esr**.

INSPECTIONS AND CODES

This handbook should be used as a guide. It does not cover all possible federal, state, or local requirements. It is your responsibility to ensure that your project complies with the most recent issue of the National Electric Code (NEC) and any other federal, state, or local codes that may apply.

METER SOCKET REQUIREMENTS

You are required to provide a meter socket with the following specifications:

- ▶ Rated 120/240 volts
- ▶ Single-phase
- ▶ Minimum rating of 125 amps
- ▶ Maximum rating of 200 amps
- ▶ Four jaws
- ▶ UL-approved (Underwriters Laboratory)

The PUD will supply a meter ring.

If you would like a service other than 200 amps | 120/240 volt | single-phase, please contact a PUD Designer prior to beginning construction.

CHAPTER TWO

TEMPORARY OVERHEAD SERVICE

The process and cost of obtaining your temporary overhead service can vary, depending upon the location of our existing facilities. The least complicated and cheapest way a service can be installed is if a transformer is located on a pole (see figure 3-3) on or along your property.

METER LOCATION

Your temporary meter post should be located on your property within 150 feet of the PUD power pole that will serve you and should be located within 15 feet of the road or driveway.

Please consider the following:

- The path that the service line will take should not cross property belonging to other individuals.
- If the service line will pass through trees or brush, a 5-ft. path must be

cleared to allow our service personnel to run the line and allow the lines to hang without contacting trees or limbs. Maintaining this clear path is your responsibility.

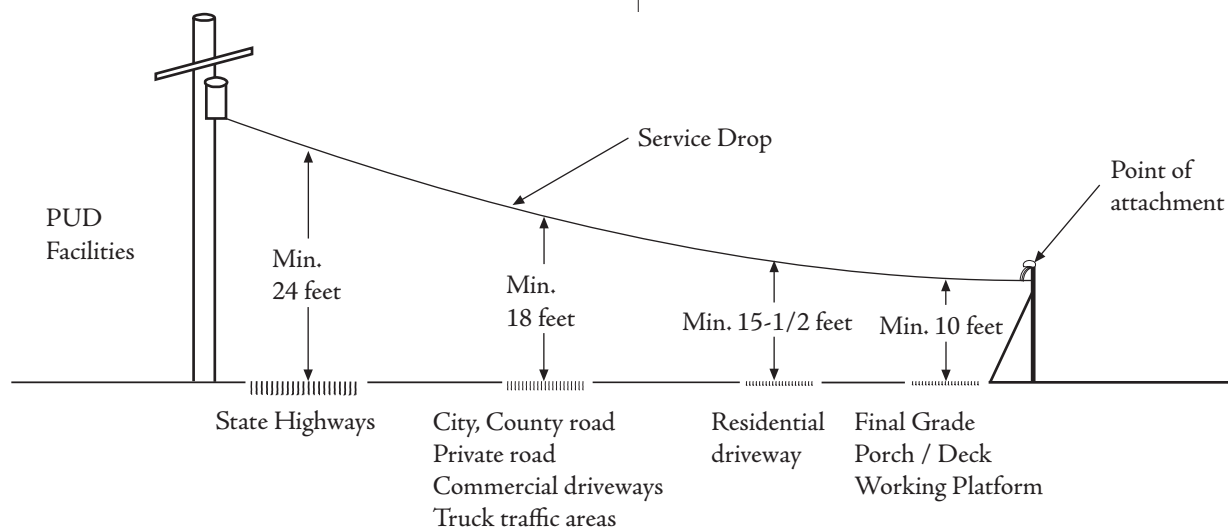
- The service line path should avoid areas where vehicular traffic will occur, unless your temporary service post height is increased to provide adequate clearance. (See figure 3-3 for clearance requirements.)

CLEARANCE REQUIREMENTS

Figure 3-3 shows the clearance requirements for the types of terrain most commonly encountered.

Figure 3-1 is a drawing of the standard temporary overhead service installation recommend-

FIGURE 3-3



2. Meter socket and distribution panel
3. Ground wire (per NEC)
4. Ground rods (per NEC)
5. 2" x 4" bracing (2 required)
6. Service entrance conductors (18" out of the weatherhead)
7. Insulator spool

Items owned and installed by the PUD:

1. Service Line
2. Meter

1. 4" x 4" x 14' minimum, continuous, single structure

FIGURE 3-1

See: BRACING TOP VIEW (below)

Attachment insulator to be provided by customer

14' x 4" x 4" min.

8" min.

NOTE: Customer-owned line side conductor - 18" min. if accessible by service truck (within 15' of a drivable surface).

If not accessible by service truck, attach conductor to insulator and provide enough conductor to reach the ground.

Service Clearance (refer to Figure 3-3)

2" x 4" min. on braces and stakes

See Note.

Point of attachment to pole must be 10' min. above ground.

Grade

Ground per NEC.

Post must be sunk 36" min.

See: BRACING TOP VIEW (below)

6' max. 4' min.

BRACING TOP VIEW

Stake

Brace

Service Drop

Pull

Temporary post

Brace

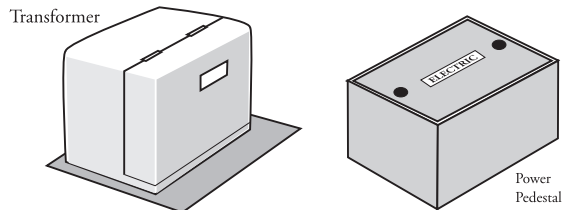
Stake

NOTE: Approved service equipment provided by customer includes a suitable support post and bracing with an approved attachment insulator spool, UL-listed or approved conduit and weatherhead, meter socket, weatherproof disconnect switch and receptacle box with ground wire, clamp and ground rod per NEC.

CHAPTER THREE

TEMPORARY UNDERGROUND SERVICE

The process and cost of obtaining your temporary underground service can vary, depending on the location of our existing facilities. If there is a transformer or power pedestal located on your property (see figures to the right), engineering may not be required. Simply install your temporary service equipment (figure 4-13) and obtain inspections from the State or the City, and the PUD. If you have questions about our facilities, contact your PUD Area Designer.

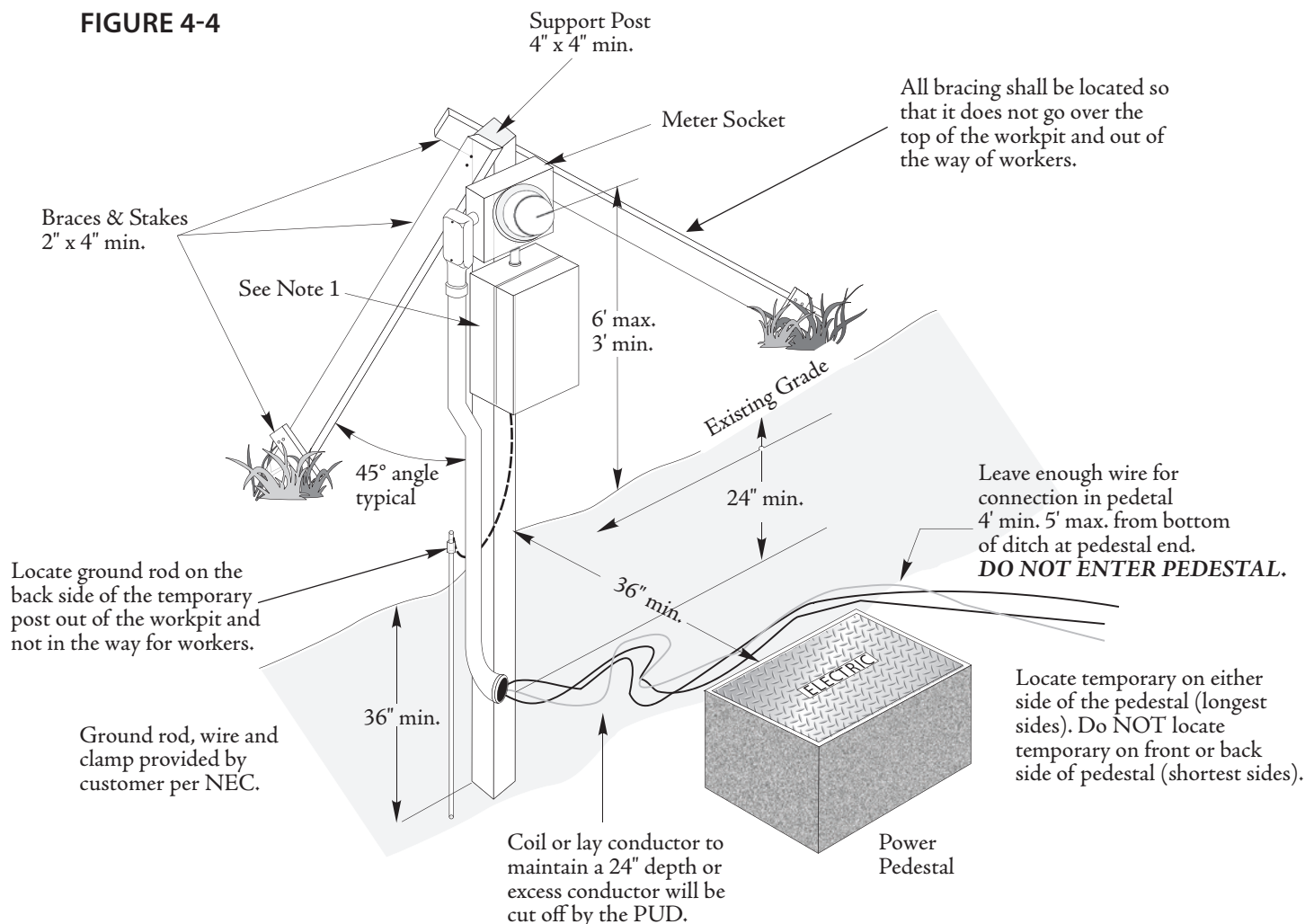


TEMPORARY SERVICE LOCATION

The following items are required to properly locate your temporary service equipment:

- Set the equipment on your property no closer than 3-ft. from the power pedestal.
- Place bracing and temporary pole away from future service trench location.

FIGURE 4-4



TRENCHING REQUIREMENTS

It is your responsibility to provide a buried cable from your temporary meter base to our power pedestal.

The trenching requirements to connect to a hand hole are shown in figure 4-13. The cable you install should be sized per the NEC and should have a minimum cover of 24". Trench to the nearest side of the power pedestal and leave your wires exposed. If you discover any other conductors while digging your trench, please leave them covered.

The customer shall provide select backfill (no rocks) for the PUD to use in shading the area conductors after energizing them. Sand shall be required if select backfill material is not available. The select backfill or sand shall provide a 3" bedding below conductors and a minimum cover of 3" above conductors. The customer shall backfill the entire temporary service excavation within 24 hours after the PUD has energized and shaded the service conductors.

Remember that you are required by law to call the UULC (1-800-424-5555) and request buried utility locations 48 hours (two working days) before digging. Any trenching within 24" of existing underground facilities must be done by hand.

Figure 4-4 illustrates the recommended temporary underground service installation. Please note the dimensions shown. Deviations to this recommended standard could result in a delay in receiving your service and/or your service being denied.

Items owned and installed by the customer:

1. 4" x 4" x 10' continuous single structure
2. 2" x 4" bracing (post should be braced from two directions)
3. Meter socket and distribution panel
4. Ground wire (per NEC)
5. Ground rods (per NEC)
6. Service entrance conductors (per NEC), leave 5-ft. additional at PUD power pedestal

Items owned and installed by the PUD

1. Meter



PO Box 1107
Everett WA 98206-1107

425-783-8272

snopud.com