

GENERAL ATTACHMENT SPECIFICATIONS

These General Attachment Specifications apply to any pole attachment and request by a cable television system or provider of telecommunications service to attach to a pole owned by TEP. All requests to attach to a pole owned by TEP must be submitted utilizing TEP's electronic Permit to Attach process. TEP's written approval for the specific request and a validly existing agreement is required prior to installing any attachments to a pole owned by TEP.

ATTACHMENT HEIGHT

- A. Each pole attachment is allotted one attachment height (elevation) per pole.
- B. A minimum separation of 12" (inches) is required from bolt-hole to bolt-hole between pole attachments.
- C. A minimum of 18' (feet) attachment height at the pole is required above street, road, driveway crossings or potential drivable areas.
- D. A minimum of 15'- 6" ground clearance is required at mid-span above street, road, driveway crossings or potential drivable areas.
- E. If additional height is required to maintain separation between pole attachments, attachment height, or mid_span ground clearance, then, upon TEP's prior written approval, adjustments may be made in increments of no less than 6" (inches).
- F. Standoff brackets or arm installation must maintain at least the minimum clearance from other pole attachments.

SEPARATION FROM TEP EQUIPMENT

- A. The standard separation is 13'- 6" from the pole's primary arm to the nearest pole attachment. Upon request, TEP may evaluate, but is not required to approve, accommodations for attachments on existing facilities. Minimum clearance requirements shall always apply.
- B. A minimum separation of 40" (inches), measured vertically below the lowest point of the following items to the pole attachment, is required:
 - 1. Top of riser pipe on primary, secondary, or service risers.
 - 2. Lowest point of secondary or neutral attachment.
 - 3. Street light metal frame or drip loop (measured from the bottom of the mount bracket).
- C. A minimum separation of 12" (inches) is required below bonded span guys or down guys to the pole attachment.
- D. All splice cases shall be a minimum of 5' (feet) from the pole.

HOLES


- A. A minimum separation of 6" (inches) between pole holes is required.
- B. Double-drilling holes at the same height is prohibited.
- C. Bands are prohibited on steel poles, except upon TEP's prior written approval.
- D. Eye-bolts for the slack span are required for false dead ends.
- E. Thru-bolts with an eye nut are required for attachment of aerial service wires to steel poles.

GUYING

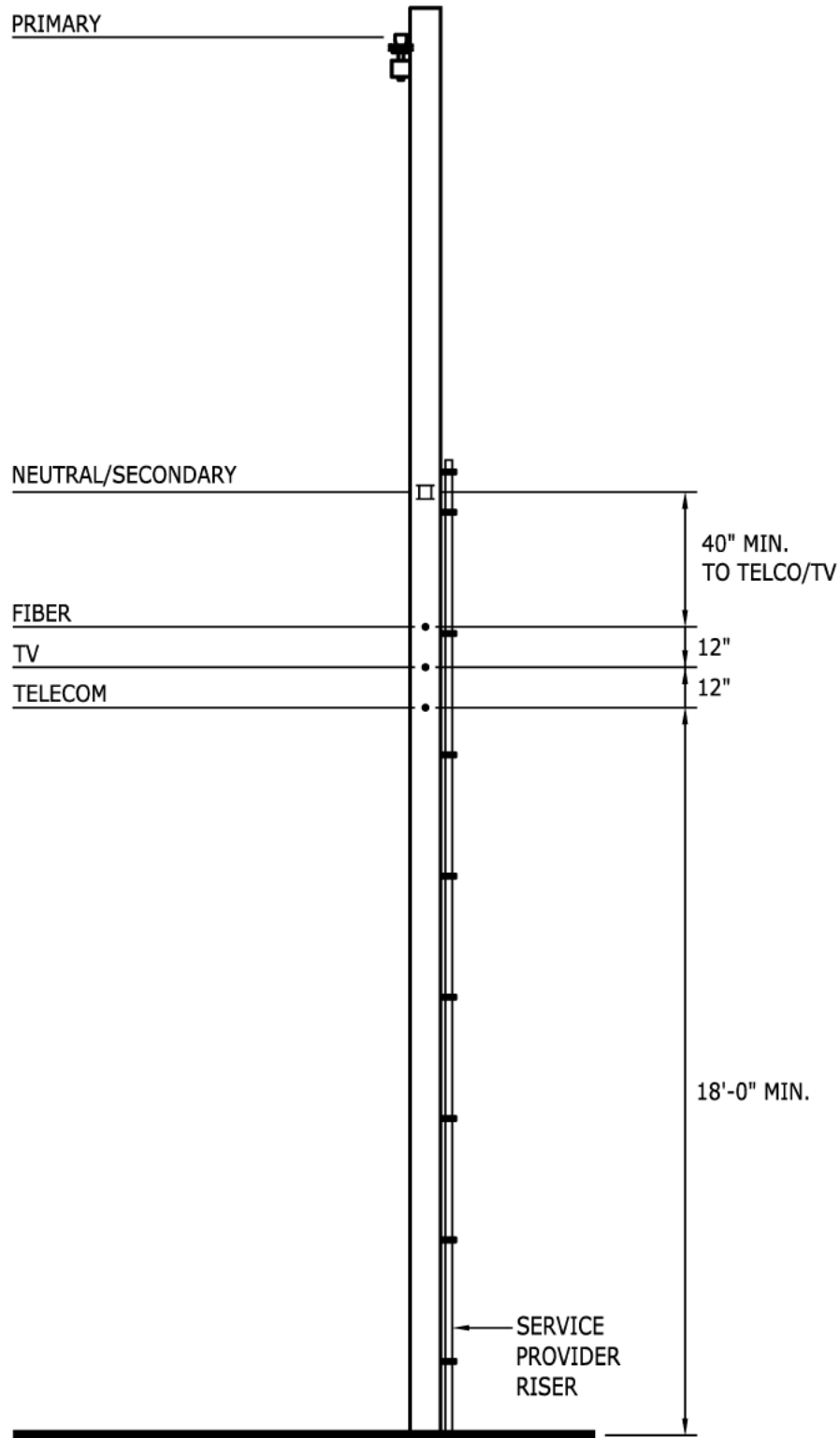
- A. Design of adequate guying and anchoring specific for the proposed attachment is required.
- B. Reliance on existing guying to support the proposed attachment is prohibited.
- C. All guying must be installed prior to installing support messenger.
- D. Utilizing triple anchor eyes is recommended to avoid congestion of attachments.
- E. Slack spans must not place excessive loading or cause additional movement of existing facilities.

LICENSEE'S RISERS

- A. All risers must conform with TEP's Electric Service Requirement Standards (SR-805).


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GENERAL ATTACHMENT SPECIFICATIONS POLE DETAILS

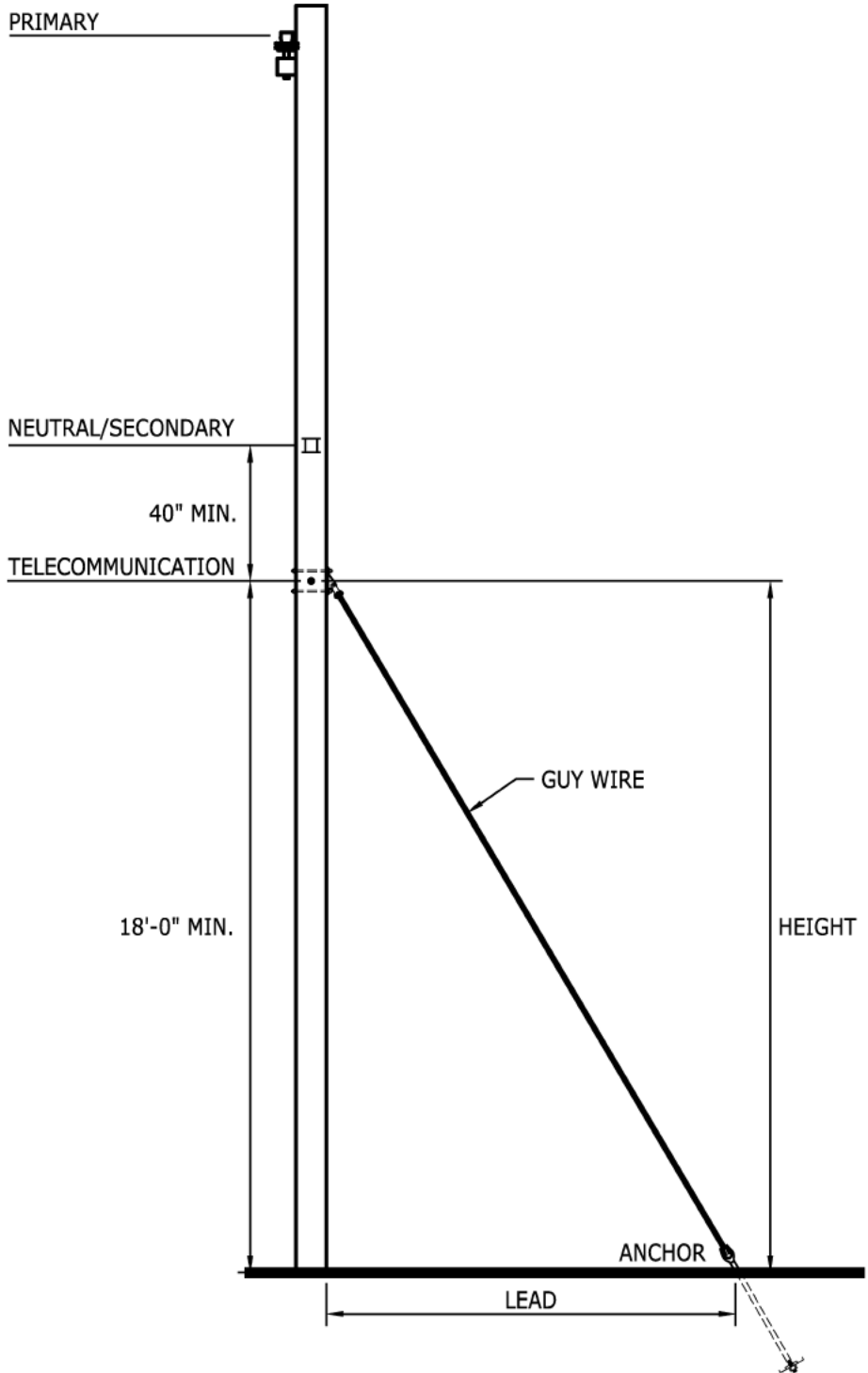


NOTE:

- FOR RISER ATTACHMENT DETAIL, SEE SR-220 & SR-805.

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GENERAL ATTACHMENT SPECIFICATIONS ANCHOR AND GUYING DETAILS



**INFORMATION REQUIRED
ON PERMIT TO ATTACH:**

NEW ANCHOR


- LEAD LENGTH
- ATTACHMENT HEIGHT
- FEET OF PULL
- GUY WIRE SIZE
- ANCHOR SIZE (SEE NOTE#4)

EXISTING ANCHOR

- LEAD LENGTH
- ATTACHMENT HEIGHT
- FEET OF PULL
- GUY WIRE SIZE
- SIZE OF EXISTING ANCHOR
- NUMBER OF EYES
- IS THERE A VACANT EYE?

NOTES:

1. RELIANCE ON EXISTING GUYING TO SUPPORT NEW ATTACHMENTS IS PROHIBITED.
2. BREAKING STRENGTH OF GUYS CAN NOT EXCEED BREAKING STRENGTH OF AN ANCHOR.
3. ANCHORING REQUIRED AT DEADENDS, SIDE PULLS AND FALSE DEAD ENDS.
4. TEP RECOMMENDS A 3/4" (INCH) TRIPLE MINIMUM ANCHOR ON ALL NEW INSTALLATIONS.

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