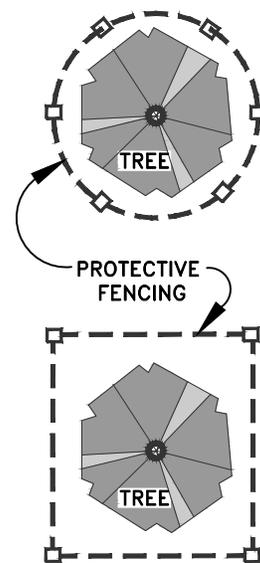
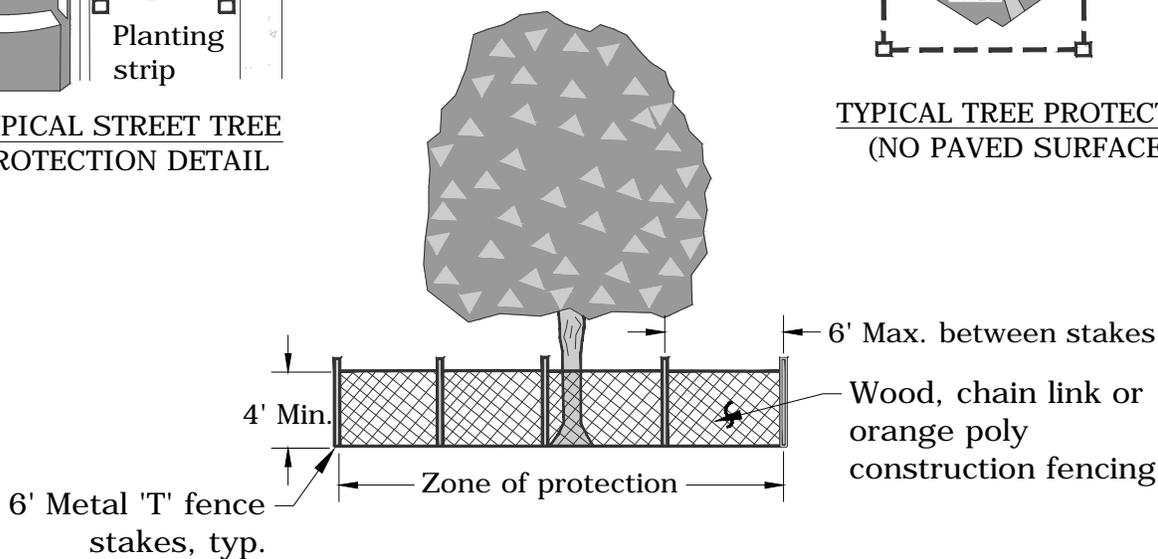


TYPICAL STREET TREE PROTECTION DETAIL



TYPICAL TREE PROTECTION (NO PAVED SURFACES)



FENCING DETAIL

Notes:

- 1) The critical root zone (CRZ) for trees 4" diameter or smaller shall be an area with a radius at least 5' from the trunk.
- 2) The CRZ for trees over 4" diameter shall be an area with a radius of at least 1'-6" from the trunk for every 1" of diameter size.
- 3) No soil grade changes or compaction shall take place within the CRZ except as directed.
- 4) No storage of material shall be allowed within the CRZ.
- 5) If work is done within the CRZ, care must be taken to minimize root disturbance. Special care shall be taken during excavation and removal of existing curb, gutter, and sidewalks to avoid damage to tree roots. Locate existing tree roots using hand tools or other approved methods such as an airspade.
- 6) Protective fencing is required when the work area is within the CRZ of trees, except where portions of the CRZ are covered with pavement such as streets or walks.
- 7) No root over 2" shall be cut without approval of the urban forester (or an approved arborist). Roots shall be cut with approved saws. No roots over 2" shall be cut or torn during trenching with power equipment such as backhoes and trenchers. Utility lines and irrigation or other pipes shall be installed by hand digging or tunneling under roots, as necessary, to avoid cutting roots 2" and larger.



City of Lake Oswego
Engineering Division

Guy Graham, P.E. Public Works Director
City Engineer

TREE PROTECTION

DRAWING NUMBER: E1-11

Drawn: DB	Redrawn:
Design: C.O.E	Redesigned:
Checked: EP	Update: KBK
Scale: N.T.S.	Update Check: DK
Date: 9/19/06	Date/Update: 7/25/13