Delineate the estimated Critical Root Zone for all trees required to be shown within the tree inventory zone. See Plate 2-12 for more information.

**35 foot Tree Inventory Zone**
Show trunk location of all trees 12 inches and greater in diameter located within 25 feet or less of the limits of clearing within undisturbed tree preservation areas or located within 10 feet or less of the limits of clearing within disturbed areas.

**Note:** Unless otherwise determined by the Director all trees 12 inches or greater in diameter located within the 35-foot inventory zone must be inventoried and shown on plans. See Plate 1B-12 for tree condition analysis requirements.

**Note:** Plates 1A-12 and 1B-12 are provided as illustrative examples to show how Tree Inventory and Poor Condition Analysis requirements may be conveyed on plans. At the discretion of the designer, other graphics elements, charts and tables may be used to communicate this information.

**Ref. Sec. 12-0307.1**
Rev. 11-10, 2018 Reprint

**TREE INVENTORY AND POOR CONDITION ANALYSIS**

**35-foot Inventory Zone**

**PLATE NO.**

| 1A-12 | **STD. NO.** |
**Dead and Hazardous Trees**
Locate trees 12 inches in diameter and greater that are dead, or potentially hazardous located 100 feet or less of the limits of clearing within the undisturbed tree preservation area, or within 10 feet or less of the limits of clearing within the disturbed area. This requirement does not apply to offsite trees. See § 12-0307.1B and .2B for more information.

**Trees in Poor Condition**
Locate trees 12 inches in diameter and greater that have been assessed in poor condition and located within 25 feet or less within the tree preservation area, and/or within 10 feet or less within the disturbed area.

Note: Plates 1A-12 and 1B-12 are provided as illustrative examples to show how Tree Inventory and Poor Condition Analysis requirements may be conveyed on plans. At the discretion of the designer, other graphics elements, charts and tables may be used to communicate this information.

**Note:** A poor condition analysis does not require trees that are assessed in the fair to excellent condition range to be labeled on plans. Unless otherwise required by proffered conditions; development plans, conceptual/final development plans, PRC plans, special permits, special exceptions, or variance approvals; only those trees meeting the definition of Poor Condition defined in § 12-0307.2A(1) must be labeled.
Critical Root Zone (CRZ) of Forest-Grown Tree

Critical Root Zone Formula

1 foot of Critical Root Zone radius for each 1 inch of trunk diameter

Dripline of Open-Grown Tree

CRZ radius

Dripline

Ref. Sec. 12-0307.2D, 12-0307.2E
Rev. 2-02, 2011 Reprint, 2018 Reprint
Length of tunnel

Critical Root Zone

Dripline

Underground utility line centerline

Utility line

Minimum depth of top of auger tunnel is 2 ft

Typical maximum depth of roots at 3 ft

Ref. Sec. 12-0202.1
Rev. 2-02, 2011 Reprint, 2018 Reprint
Trunks of trees to be planted or preserved for energy conservation must be placed within this zone in order to receive credit.

Place Category 4 deciduous trees further from buildings

Place Category 3 deciduous trees closer to buildings

15 ft energy conservation credit

tree placement zone

Ref. Sec. 12-0310.4B(2)(a),
12-0310.4B(2)(b)

Rev. 2-02, 2011 Reprint, 2018
Reprint
Note: Top opening of the planter must meet the minimum planting area requirements of Table 12.17.

Note: Trees should be planted 2 to 4 in higher than the final planting depth to allow for settling of lightweight planting medium.

Initial planting depth

Final depth

Guying wire

2-3 in of mulch

Drainage board secured to wall with waterproof mastic tape

Lightweight planting medium

Concrete slab

Deadman with 1.5 in stainless steel eye bolt

Drainage system

Irrigation system

Planter wall waterproofing and protection board

Planter depth 3 ft minimum

Ref. Sec. 12-0401.1D(3)
Rev. 2-02, 2011 Reprint, 2018 Reprint
Anchor posts should be a minimum 2 in steel 'U' channel, 6 ft in length

Orange plastic fence, welded wire fence, chain link fence, silt fence or super silt fence

Maximum distance between posts of 6 ft

Fence height 4 ft

Use 8 in wire U staples to secure fence bottom

Note: Tree protection fencing should be maintained throughout construction
Limits of clearing

Tree protection fence or Silt fence

Woodchip mulch

Backfill trench

6 in maximum trench width

1.5 - 2 ft trench depth

Ref. Sec. 12-0502.1, 12-0504.20
Rev. 2-02, 2011 Reprint, 2018 Reprint
Soak roots in water 3 to 6 hours prior to planting. Do not allow roots to dry out before planting.

Remove grass from a 3 ft circle and turn up soil. Dig a planting hole 8 in wider than the diameter of the seedling roots in center of circle.

Position seedling at original nursery depth. Do not bend roots on sides or bottom of planting hole. Gently backfill excavated soil around roots.

Remove air pockets from backfill soil. Soil should be firm but not tightly packed. Construct waterholding basin around planting hole and water thoroughly.

Place a 2 in deep layer of mulch in a 3 ft diameter circle around trees. Mulch should not touch the tree trunk.

During dry weather, water generously once every 7 to 10 days during the first year.
Removing a large lateral branch requires two preliminary cuts before the final cut.

When cutting back to a lateral, bisect the angle between the branch bark ridge and an imaginary line perpendicular to the leader or branch being removed.

When removing a branch with a narrow branch attachment, cut from the bottom upward.