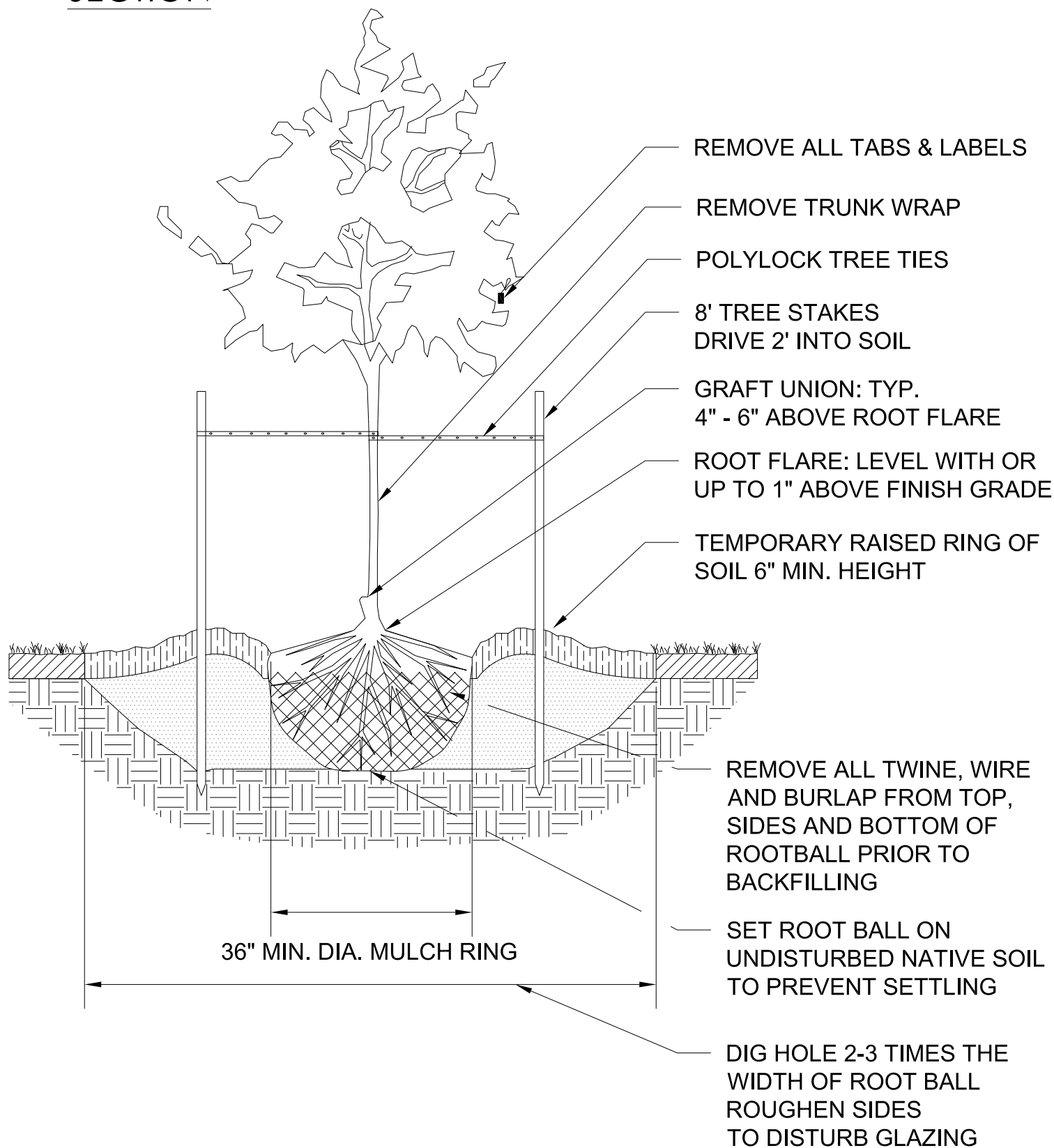


# SECTION



## BALL AND BURLAP TREE PLANTING DETAIL

## NOTES:

1. Plant material must meet the minimum acceptable standard set by the American Association of Nurserymen's American Standard of Nursery Stock: ANSI Z60.1. Broken, damaged, diseased, or substandard stock are prohibited from being planted in the public right-of-way and will be rejected.
2. Only class I (small growing) trees are permitted to be planted under or within fifteen (15') of overhead utility lines.
3. Prune only broken or damaged branches. Do not apply fertilizer at time of planting.
4. The root flare is the point where the top most structural root emerges from the trunk. The depth of the root ball shall be measured from the root flare to the bottom of the root ball. Handle B&B plants carefully when transferring to planting hole. Lift or carry by holding the root ball, not the trunk.
5. Remove any excess soil from the top of the root ball to expose the root flare. Place tree in planting hole with root flare level with or up to 1" above finish grade.
6. Remove all wire baskets and rope from root ball. Be careful to keep the root ball intact.
7. Remove all burlap from the root ball. Be careful to keep root ball intact.
8. Straighten, cut and remove any circling roots.
9. Backfill planting hole 2/3 full with existing soil, settle with water, continue to fill with soil, water again. Water thoroughly after installation to eliminate air pockets.
10. Construct a temporary raised ring of soil at edge of root ball to contain water. Remove or breach before winter.
11. Construct mulch ring with a minimum 36" diameter to a depth of 2" - 4"; leave 3" bare ground between mulch and tree trunk.
12. Set stakes parallel to prevailing wind and outside of root ball. Ties must be 1" wide minimum, flexible belt-like strapping. Do not use rope or wire. Do not over-tighten around tree. Ties should be tight enough to support the tree while allowing it to sway. Remove stakes and ties within one year after installation.
13. Trees benefit when irrigated separately from turf. Water new trees during summer months to a depth of 12" - 18" once per week (about 5 gallons of water per caliper inch) for the first 3 growing seasons. During periods of drought, new trees may need more frequent watering.



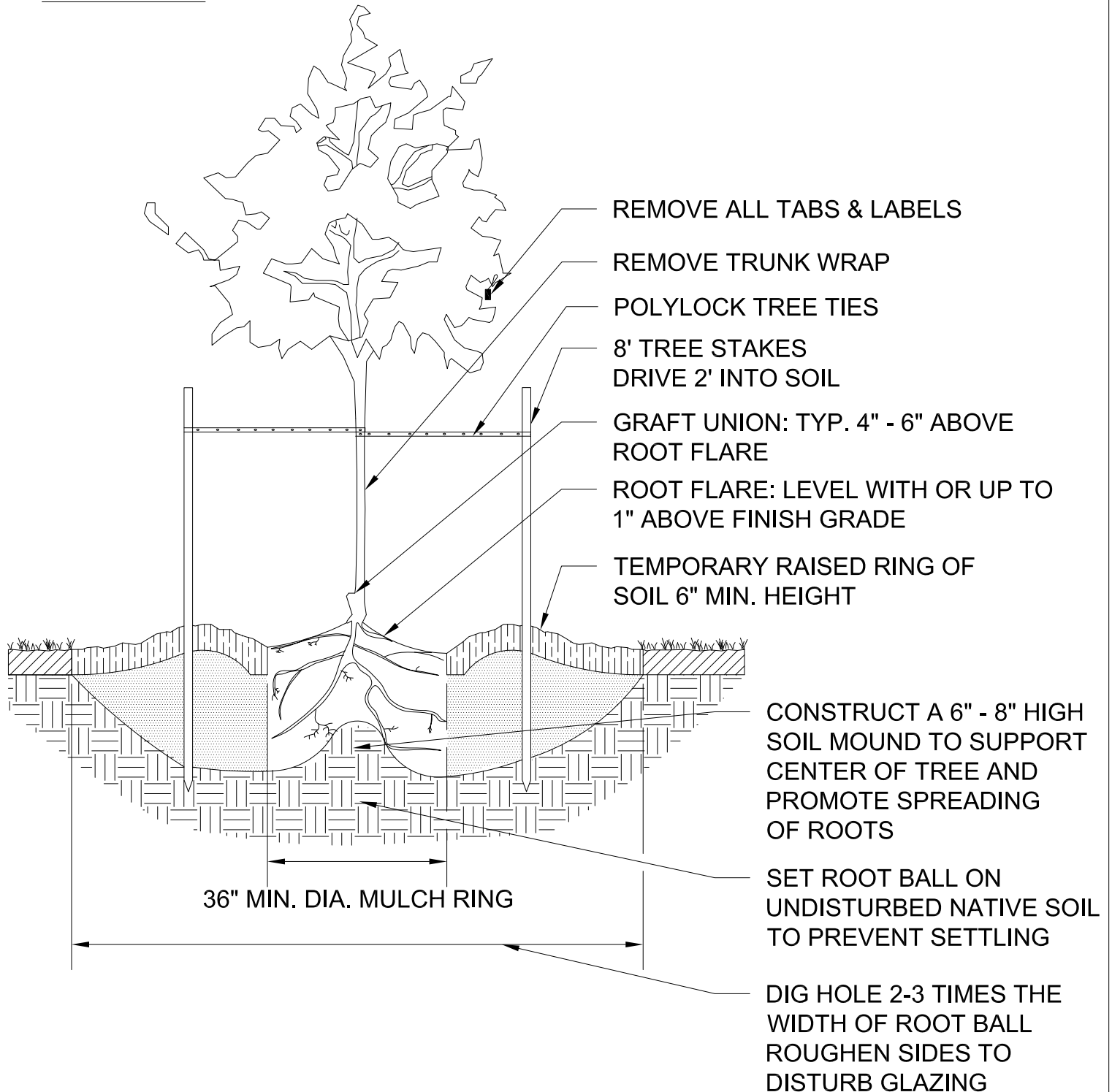
### BALL AND BURLAP TREE PLANTING NOTES

Approved by  
Parks & Rec. Design Mgr.  
Neil Miner

Drawn by: GLS  
Checked by: CB  
Adopted:

PR-101

# SECTION



## NOTES:

1. Plant material must meet the minimum acceptable standard set by the American Association of Nurserymen's American Standard of Nursery Stock: ANSI Z60.1. Broken, damaged, diseased, or substandard stock are prohibited from being planted in the public right-of-way and will be rejected.
2. Only class I (small growing) trees are permitted to be planted under or within fifteen (15') of overhead utility lines.
3. Prune only broken or damaged branches. Do not apply fertilizer at time of planting.
4. The root flare is the point where the top most structural root emerges from the trunk. The depth of the root ball shall be measured from the root flare to the bottom of the lowest root(s). Handle roots carefully when transferring to planting hole.
5. Remove all packing material from roots.
6. Plant root flare level with or up to 1" above finish grade.
7. Straighten, cut and remove any circling roots. Construct a mound of soil 6" - 8" high to support center of tree. Spread roots over mound, extending in a radial pattern from the trunk, distributing them evenly in the planting hole.
8. Backfill planting hole 2/3 full with existing soil, settle with water, continue to fill with soil, water again. Water thoroughly after installation to eliminate air pockets.
9. Construct a temporary raised ring of soil at edge of root ball to contain water. Remove or breach before winter.
10. Construct mulch ring with minimum 36" diameter to a depth of 2" - 4"; leave 3" of bare ground between mulch and tree trunk.
11. Set stakes parallel to prevailing wind and outside of root ball. Ties must be 1" wide minimum, flexible belt-like strapping. Do not use rope or wire. Do not over-tighten around tree. Ties should be tight enough to support the tree while allowing it to sway. Remove stakes and ties within one year after installation.
12. Trees benefit when irrigated separately from turf. Water new trees during summer months to a depth of 12" - 18" once per week (about 5 gallons of water per caliper inch) for the first 3 growing seasons. During periods of drought, new trees may need more frequent watering.



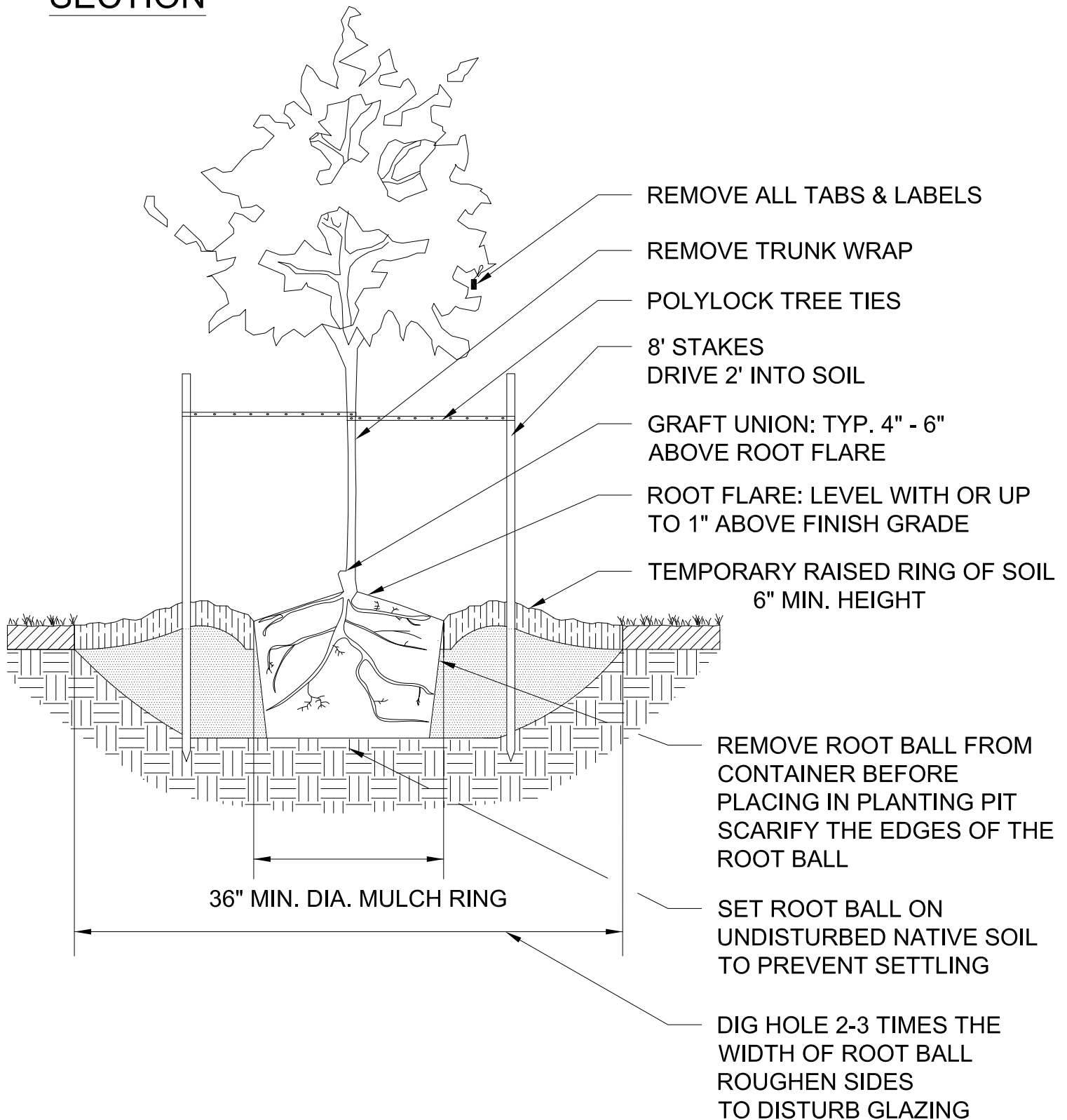
### BARE ROOT TREE PLANTING NOTES

Approved by  
Parks & Rec. Design Mgr.  
Neil Miner

Drawn by: GLS  
Checked by: CB  
Adopted:

PR-101-2

# SECTION



## CONTAINER TREE PLANTING DETAIL

## NOTES:

1. Plant material must meet the minimum acceptable standard set by the American Association of Nurserymen's American Standard of Nursery Stock: ANSI Z60.1. Broken, damaged, diseased, or substandard stock are prohibited from being planted in the public right-of-way and will be rejected.
2. Only class I (small growing) trees are permitted to be planted under or within fifteen (15') of overhead utility lines.
3. Prune only broken or damaged branches. Do not apply fertilizer at time of planting.
4. The root flare is the point where the top most structural root emerges from the trunk. The depth of the root ball shall be measured from the root flare to the bottom of the ball. Handle container plants carefully when transferring to planting hole. Lift or carry by holding the root ball, not the trunk.
5. Remove any excess soil from the top of the root ball to expose the root flare. Place tree in planting hole with root flare level with or up to 1" above finish grade.
6. Remove container from root ball. Be careful to keep the root ball intact.
7. Straighten, cut and remove any circling roots.
8. Backfill planting hole 2/3 full with existing soil, settle with water, continue to fill with soil, water again. Water thoroughly after installation to eliminate air pockets.
9. Construct a temporary raised ring of soil at edge of root ball to contain water. Remove or breach before winter.
10. Construct mulch ring with minimum 36" diameter to a depth of 2" - 4"; leave 3" of bare ground between mulch and tree trunk.
11. Set stakes parallel to prevailing wind and outside of root ball. Ties must be 1" wide minimum, flexible belt-like strapping. Do not use rope or wire. Do not over-tighten around tree. Ties should be tight enough to support the tree while allowing it to sway. Remove stakes and ties within one year after installation.
12. Trees benefit when irrigated separately from turf. Water new trees during summer months to a depth of 12" - 18" once per week (about 5 gallons of water per caliper inch) for the first 3 growing seasons. During periods of drought, new trees may need more frequent watering.



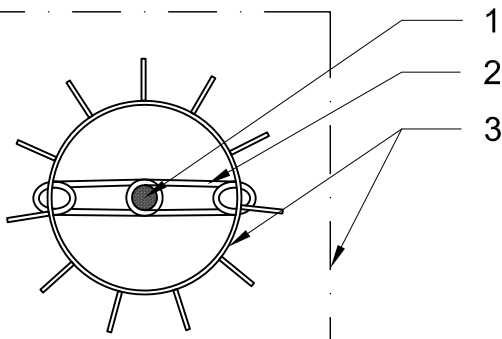
### CONTAINER TREE PLANTING NOTES

Approved by  
Parks & Rec. Design Mgr.  
Neil Miner

Drawn by: GLS  
Checked by: CB  
Adopted:

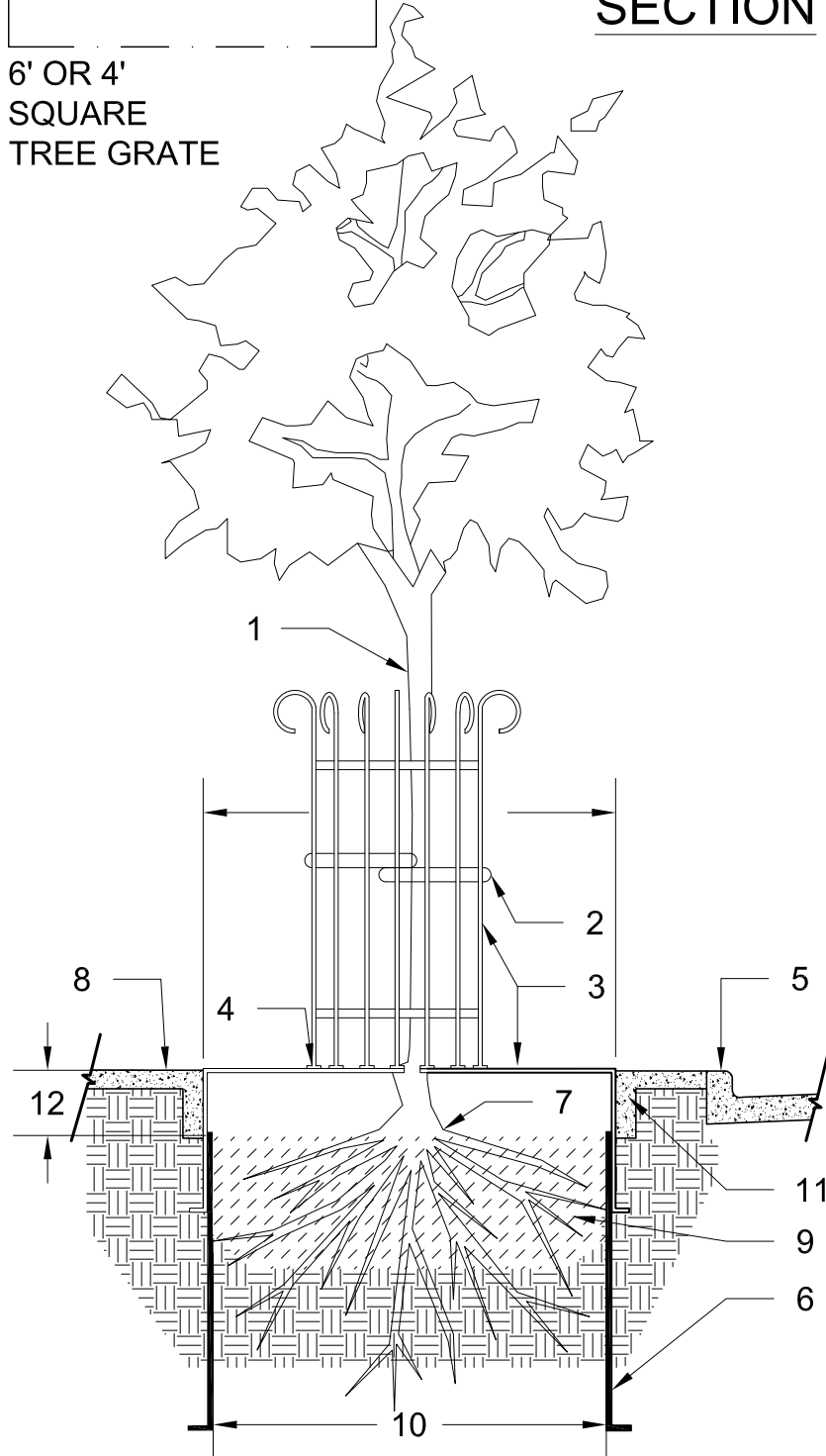
PR-101-3

## PLAN



## SECTION

6' OR 4'  
SQUARE  
TREE GRATE



## NOTES:

1. Tree as per City of Missoula Parks & Rec. standards for selecting & planting landscape street trees
2.  $\frac{3}{4}$ " polylock tree ties, (2)
3. NEENAH R-8713, 180 deg. square 60" or 48" tree grate with tree guard, reference plan for construction details
4. Steel flange 2" x 3" pre-drilled to accept 2" x  $\frac{1}{2}$ " through bolt
5. Curb / Gutter or other approved equal
6. Root control barrier by "Deep Root Corp" or approved equal. 12" depth adjacent to sidewalks and 18" depth adjacent to curbs
7. First roots shall be visible at top of rootball. Set top of rootball 1" above finish grade to adjust for settling.
8. Sidewalk
9. Backfill mix as per specifications or soil report
10. Planting pit shall be the width of the tree well and no deeper than the root ball. Scarify sides & bottom of planting pit.
11. Concrete edge to retain subgrade 4" thick minimum
12. Finish planter grade 7" below top of tree grate

## TREE GRATE & TREE GUARD DETAIL