

Bell Drive Community

property owner:

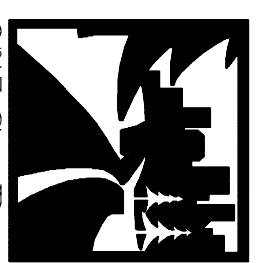
950 Lowery Boulevard

404-233-1411

DGM

Tree Calculations

E



Scale: 1" = 40'

August 4, 2016

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Tree Calculations

Site Area Calculation:
Net Site Area = 3.9 AC

Tree Density Calculation:

3.9 AC x 100"/AC = 390 Total Inches Required

$$\underline{\underline{\text{EDF} + \text{RDF} = \text{SDF}}}$$

RDF = 100" (29 x 4" cal. street trees

594" + 100" = 694" SDF (with 304" surplus which will count against recompense therefore density is satisfied

Specimen Tree Recompute Calculation:

Therefore, the 100" maximum recompense applies.

and street trees.

Street Tree Requirement:

29 trees are required per the street tree requirement (see Tree Replacement Plan). A total of 29 x 4" caliper trees have been provided

Street trees have been placed at every viable and appropriate location possible. The 29 trees are being counted toward recompense requirements since density requirements have been satisfied.

City of Smyrna Required Notes:

1. All existing trees, specimen and non-specimen, counted for EDF credits must be fully preserved during individual lot permitting.
2. All trees must be planted at least 10' from any utility line.
3. Tree save fence for entire site must be installed, inspected and approved prior to installation of erosion control measures. No land disturbance or demolition is allowed before tree save fencing has been inspected and approved by Community Development Director.
4. The CRZ of specimen trees receiving a XX credit shall be protected with 6' chain link tree save fencing spaced 6' on center with metal support posts and Tree save signage. Installation of tree save fence will involve no trenching.
- 4". If organic mulch over the CRZ and an above ground irrigation system.

5. The Community Development Director must inspect the site before installation of erosion control measures. Land disturbance without a site inspection and approval by the Community Development Director will result in a "Stop-Work Order" and fines.
6. If tree survey inaccuracies are found on-site, a stop work order will be issued until revised plans are approved and processed based on accurate information.
7. The Community Development Director must inspect and approve the site before the issuance of a Certificate of Occupancy.

10. A minimum 3-4" layer of mulch will be required for all existing, non specimen, landscape trees, including street trees and parking lot trees. Mulch must be applied prior to start of construction. Mulch shall not be placed directly against tree trunks.

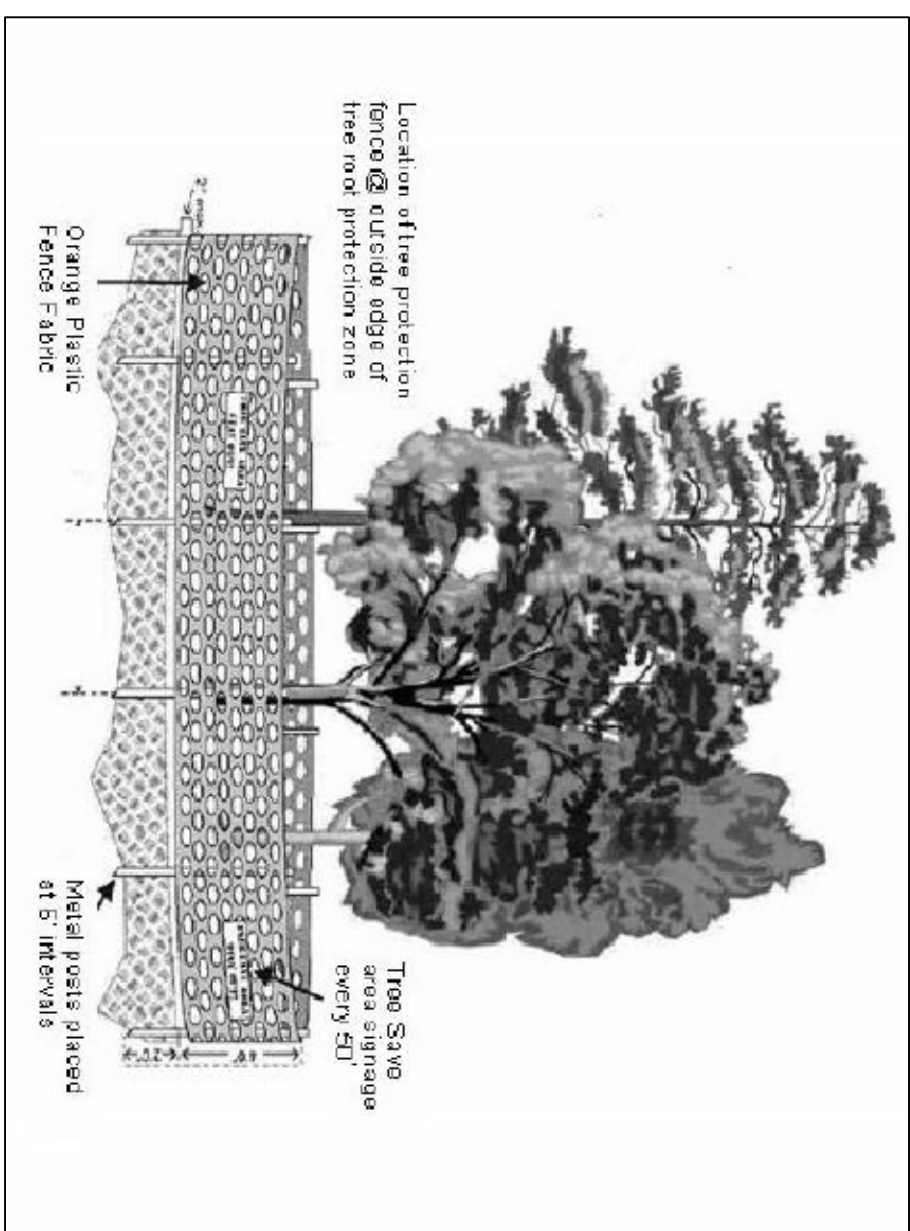
11. All newly planted trees shall have visible root flares at finished grade. No circling roots shall be allowed on planted trees. The upper 2/3 of the wire basket, all burlap, and strapping shall be cut and removed prior to backfill.

Removed Specimen Tree Inches			
Tree	Tree	Tree Size DBH	CRZ
Number	Species	(in inches)	Radius (in ft)
104	Water Oak	24	36
107	Silver Maple	49	74
109	Red Oak	34	51
110	Maple	32	48
112	Water Oak	25	38
Total Inches:		164	
Preserved Specimen Tree Inches			
Tree	Tree	Tree Size DBH	CRZ
Number	Species	(in inches)	Radius
Total Inches:		0	
x 3 =		0	

Preserved Non-Specimen Tree Inches					
Qtr.	Tree Species	Tree Size DBH (in inches)	Total Inches	CMZ Radius (in feet)	
7		6	42	9	
6		7	42	10.5	
18		8	144	12	
2		9	18	13.5	
11		10	110	15	
8		12	96	18	
4		14	56	21	
1		15	15	22.5	
1		16	16	24	
1		17	17	26	
1		18	18	27	
1		20	20	30	
			Total Inches	594	

Per Arborist's field notes: the 'Tree Preservation Area' marked on the plan, behind the 50' power easement includes small to semi-mature loblolly pines with a few small hardwoods that include oak, sweetgum and tulip poplar.

Tree Protection for Non-Specimen Trees



***specimen tree protection requires orange polyethylene fence be replaced with chain link fence.**

