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3	New : A		Discussion regarding review of the "Diversity of California's Urban Forests" list, and the process for adding more tree species to the Recommended Street Tree List.		
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5			Design Review Board Subcommittee for Street Trees		
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8	Genus	Species	Zone*	DESCRIPTION	
9					+
10	Acer	buergerianum	20	25 foot tree, good for patios or under power lines, popular Bonzai	
11	Acer	campestre		70 ft but less dense and tall in ca. slow growing - Hedge Maple	X
12	Acer	circinatum		likes moist places, too small, multi -stemmed	
13	Acer	davidii		35 ft, likes zones 20 & 21 9Sunset) good small tree	
14	Acer	ginnala		too small	
15	Acer	macrophyllum		Used in California for riparian plantings, 70 ft	
16	Acer	negundo		used in California for riparian plantings, suckers, weed tree with many faults	
17	Acer	oblongum		likes acid soils moisture and is invasive	
18	Acer	palmatum		Japanese maple is on list	
19	Acer	paxii		same as oblongum	
20	Acer	platanoides		Norway Maple to 65 ft., voracious roots	
21	Acer	pseudoplatanus		Sycamore Maple	
22	Acer	rubrum		Red Maple, Scarlet Maple	
23	Acer	saccharum		Sugar Maple	
24	Acer	tataricum		too small	
25	Acer	truncatum		too small	
26	Acer	X freemanii	17	60 foot tree, likes water	

OLD # A

CITY OF GOLETA REVISED FEBRUARY 11, 2009
 CITY ARBORIST AND DESIGN REVIEW BOARD RECOMM Trees added 2/10/2009 In t
 STREET TREE PLANTING LIST

Minimum Parkway Width	Recommended Tree	Botanical Name	Root Barrier Recommended To be Used	Height at Maturity	Remarks NR=Not Recommended)
Three feet	BRAZILIAN BUTTERFLY	<i>Bauchinia forficata</i>	Yes	30'	OK
	CHINESE FRINGE	<i>Chionanthus retusus</i>	Yes		OK
	GEIGERTREE	<i>Cordia sebestena</i>	Yes	30'	OK
	JAPANESE MAPLE	<i>Acer palmatum</i>	Yes	20'	OK
	JAPANESE SNOWBALL	<i>Styrax japonicus</i>	Yes	30'	OK
	PURPLE ORCHID	<i>Bauchinia variegata</i>	Yes	30'	OK
	PURPLE-LEAF PLUM	<i>Prunus cerasifera</i>	Yes	30'	OK
	SWAMP MYRTLE or WATERGU	<i>Tristania laurina</i>	Yes	20'	OK
	TAIWAN FLOWERING CHER	<i>Prunus campanulata</i>	Yes	20'-25'	OK
	Four feet	ASH	<i>Fraxinus holotricha</i>	Yes	30'-40'
AUSTRALIAN WILLOW		<i>Geijera parviflora</i>	Yes	35'	OK
BRONZE LOQUAT		<i>Eriobotrya deflexa</i>	Yes	25'	OK
CAPE CHESTNUT		<i>Calodendrum capense</i>	Yes	25'-40'	OK
CHINESE FLAME TREE		<i>Koelreuteria bipinnata</i>	Yes	40'	OK
CHINESE MAIDENHAIR TREE		<i>Ginkgo biloba</i>	Yes	50'	OK, but male trees only
CHINESE PARASOL TREE		<i>Firmiana simplex</i>	Yes	30'-45'	OK
CHINESE PISTACHE		<i>Pistacia chinensis</i>	Yes	40'	OK
EVERGREEN PEAR		<i>Pyrus kawakami</i>	Yes	30'-35'	OK
FIREWHEEL		<i>Stenocarpus sinuatus</i>	Yes	25'	OK
FLOWERING CHERRY		<i>Prunus yedoensis</i>	Yes	40'	OK
GOLDEN PENDA or EXPO GO		<i>Xanthostemon chrysanthus</i>	Yes	30'-40'	OK
HONG KONG ORCHID		<i>Bauhinia blakeana</i>	Yes	20'	OK
MADRONE 'Marina'		<i>Arbutus 'marina'</i>	Yes	40'	OK
PAPER BARK MAPLE		<i>Agriseum</i>	Yes	35'	OK
PINK TRUMPET TREE		<i>Tabebuia ipe</i>	Yes	30'	OK
SERVICE BERRY		<i>Amelanchier cumulus</i>	Yes	40'	OK
SPAETHI		<i>Acer atropurpureum</i>	Yes	30'-40'	OK
SWEETSHADE TREE		<i>Hymenosporum flavum</i>	Yes	40'	OK
SYCAMORE MAPLE		<i>Acer pseudoplatanus</i>	Yes	40'	OK
WEeping BOTTLEBRUSH	<i>Callistemon viminalis</i>	Yes	20'-40'	OK	
Five feet	CAPE CHESTNUT	<i>Calodendrum capense</i>	Yes	40'	OK
	FLAME BOTTLE TREE	<i>Brachychiton acerifolia</i>	Yes	40'	OK
Six feet	GOLDEN RAIN TREE	<i>Koelreuteria paniculata</i>	Yes	25'	OK
Center Divider	BRADFORD PEAR	<i>yrus callyreana 'Redspire, Aristocrai'</i>	Yes	50'	OK for center divider only
	BRISBANE BOX	<i>Lophostemon conferta</i>	Yes	60'	OK for center divider only
	COAST LIVE OAK	<i>Quercus agrifolia</i>	Yes	50'-70'	OK for center divider only
	CORK OAK	<i>Quercus suber</i>	Yes	60'	OK for center divider only
	EASTERN RED BUD	<i>Cercis canadensis</i>	Yes	20'	OK for center divider only
	FRUITLESS OLIVE	<i>Olea europea 'Swan hill'</i>	Yes		OK for center divider only
	ISLAND OAK	<i>Quercus tomentella</i>	Yes		OK for center divider only
	INCENSE CEDAR	<i>Calocedrus decurrens</i>	Yes	60'	OK for center divider only
	JACARANDA	<i>Jacaranda acutifolia</i>	Yes	40'	OK for center divider only
	NEW ZEALAND X-MAS TREE	<i>Metrosideros excelsus</i>	Yes	30'	OK for center divider only
	RIVER BIRCH 'HERITAGE'	<i>Betula nigra 'Heritage'</i>	Yes	50'-90'	OK for center divider only
	SAUCER MAGNOLIA or TULIP T	<i>Magnolia Soulangeriana</i>	Yes	20'	OK for center divider only
	SOUTHERN MAGNOLIA or BULL	<i>agnolia grandiflora 'majestic beauty'</i>	Yes	40'-80'	OK for center divider only
	WESTERN RED BUD	<i>Cercis occidentalis</i>	Yes	18'	OK for center divider (from 24
Not recommended for Reasons as Noted	GRAPE MYRTLE	<i>Lagerstoemia indica</i>			NR - susceptible to mold
	HAPHIOLEPIS 'Majestic Beaut	<i>Raphiolepis 'Majestic Beauty'</i>			NR - shrub
	LEMON BOTTLEBRUSH	<i>Callistemon citrinus</i>		25'	NR - attracts bees
	LITTLE GEM MAGNOLIA	<i>Magnolia grandiflora 'Little Gem'</i>		20'	NR - bushy / messy
	LONG-LEAFED YELLOW WOO	<i>Podocarpus henkelii</i>			NR - invasive roots
	CATALINA IRONWOOD	<i>sonothammus floribundus, asplenifolius</i>		60'	NR - high maintenance
	GOLD MEDALION	<i>Cassia leptophylla</i>			NR - large pods are a hazard
	SILK TREE MIMOSA	<i>Albizia julibrissin</i>		40'	NR - high maintenance
	PEPPERMINT TREE	<i>Agonis flexuosa</i>		35'	NR - needs space, grows too w
	SHOESTRING ACACIA	<i>Acacia stenophyllia</i>		30'	NR - weak roots, too much pol
	CAJEPUT or PAPERBARK TRE	<i>Melaleuca quinquinervia</i>			NR - invasive roots, water hog
	CALIFORNIA BAY LAUREL	<i>Umbellularia californica</i>			NR - invasive roots
	SWEETBAY or GRECIAN LAUR	<i>Laurus nobilis 'saratoga'</i>			NR - invasive roots
	CITRUS 'LEMON or ORANGE	<i>Citrus sinensis</i>			NR - drops messy fruit, draws i
	FERN PODOCARPUS	<i>Podocarpus gracilior</i>			NR - invasive roots, drops pod:
	ITALIAN STONE PINE	<i>Pinus pinea</i>			NR - invasive roots
	CANARY ISLAND PINE	<i>Pinus canariensis</i>			NR - large cones are hazardous
	CALIFORNIA SYCAMORE	<i>Platanus racemosa</i>			NR - invasive roots, dead leave
	CAMPHOR	<i>Cinnamomum camphora</i>		50'	NR - invasive roots
	HOLLY OAK	<i>Quercus ilex</i>		40'-50'	NR - hybridizes, drops many

Street Tree Subcommittee Recommendations Outline
Revised 2/11/2009

A. Recommended Street Trees List

The Recommended Street Trees List will be periodically reviewed and revised as necessary to remove problem trees and to add trees more suitable for Goleta's predominantly narrow street parkways and center dividers, in order to reduce maintenance (leaf litter cleanup, pruning & trimming) and to minimize damage to infrastructure from invasive tree roots, with a resultant cost savings for the City.

B. Recommended Nursery Plant Standards

1. All container grown nursery stock shall be healthy, vigorous, well rooted, have an established root system reaching the size of the container to maintain a firm ball when the container is removed, but shall not have excessive root growth encircling the inside of the container.
2. All trees shall have a single straight trunk, a well developed leader free of co-dominant stems or competing vigorous upright branches, with tops and roots characteristic of the species cultivar or variety.
3. All trees must be free of insects, disease, mechanical injury, and other objectionable features when planted.
4. On grafted or budded trees, there shall be no suckers from the root stock.
5. At time of inspection and/or delivery, the tree shall show no signs of moisture stress from under or over watering, as indicated by wilted, shriveled, or dead leaves or branch die back.
6. For a tree in a 15 gallon container, the trunk diameter (caliper) shall be 0.75 inches to 1.5 inches with the approximate tree height of 8 to 10 feet.
7. For a tree in a 24 inch box container, the trunk diameter (caliper) shall be 1.5 inches to 2.5 inches with the approximate tree height of 11 to 12 feet.
8. The caliper range shall be measured 4 inches above the soil surface.
9. The trunk diameter and taper shall be sufficient so that the tree will remain vertical without the support of a nursery stake.

C. Proper Identification (for Nursery Plants)

1. All trees shall be true to name and legibly tagged as to name and size and shall be labeled individually or in groups by species and cultivar.
2. Proof of purchase, bill of sale, inventory list, nursery location, etc. shall be provided to the City Arborist upon request.
3. The City Arborist shall have the right to reject any container grown tree that does not meet the specifications set forth in these standards.

D. Recommended Tree Planting Guidelines

4. Root barriers to be installed when planting a street tree 7.5 ft. or less from hardscape in any parkway or center divider. (Measured from root flare to inside edge of hardscape.)
 - a. Sidewalk side – 16"-18" high x 8 ft. long barrier centered on tree trunk.
 - b. Curb side – 18"-24" high x 8 ft. long barrier centered on tree trunk.
 - c. Tree well – 12" to 18" high barrier, sized to fit perimeter of well, as specified by the City Arborist. (Well to be designed to accept standard sizes and lengths of root barriers so no special joints are required.)
5. Container sizes
 - a. New developments – 24" box minimum.
 - b. Replacement trees – 15 gal. container or 24" box, as directed by the City Arborist.
6. Planting details
 - a. Hole dimensions to be specified and confirmed by the City Arborist.
 - b. Backfill material to be specified by the City Arborist and to include organic source soil fertilizer containing worm castings.
 - c. Aeration tubes, if specified by the City Arborist, shall be 3 ft. deep, 3" diameter PVC Schedule 40 pipe backfilled with $\frac{3}{4}$ " gravel.
 - d. Double stakes and rubber ties to be installed for support.
 - e. Dirt berm to be constructed around perimeter of planting hole to form a watering basin.
 - f. After backfilling, staking and initial watering, mulch layer to be placed around planting for water retention.
7. Tree Planting Location Requirements
 - a. Planting holes should be centered within the parkway or center divider.
 - b. Planting holes should be a distance of 10 ft. minimum away from water meter boxes, underground utility lines, etc.
 - c. Trees should be set a minimum of 75 ft. away from the center point of intersections.

- d. Trees should be selected and located such that upon reaching maturity, foliage will not block street lighting or grow into overhead power lines.
- e. Where possible, replanted replacement trees should be offset, not placed in spaces previously occupied by removed trees.

***E. Recommendations for Tree Contractors**

- 1. Contract Requirements
 - a. Standard Contract for Public Works Construction ("Green Book")
 - b. Special Provisions to be added at the discretion of the City Arborist.
 - c. Performance bond to be provided, with bond period as specified by the City Arborist.

- 2. License and Bonding

All tree contractors must be licensed and bonded to do business in, and to be awarded contracts by, the City of Goleta.

- 3. Insurance Requirements
 - a. Contractor must be licensed, bonded and insured.
 - b. City of Goleta to be named as additional insured on Contractor's liability insurance policy.
 - c. Limits of liability to be \$1,000,000 general liability, \$1,000,000 auto and an aggregate limit of \$3,000,000.
 - d. At the discretion of the City Arborist, limits of liability may be adjusted downward for smaller contracts.
 - e. For larger contracts, the City Arborist may specify limits of liability to be \$2,000,000 general liability, \$2,000,000 auto and an aggregate limit of \$5,000,000.
 - f. Contractor must also carry workers compensation insurance.

- 4. Traffic Control Requirements
 - a. Tree planting in the public right-of-way must have signage alerting the public approaching the work zone.
 - b. Lane closures require Contractor to submit a traffic control plan to the City Arborist for approval prior to start of work.
 - c. Traffic control plans should conform to the Caltrans traffic control handbook or APWA Work Area Traffic Control Handbook (WATCH).

***Item E, Recommendations for Tree Contractors, was not included in the DRB motion on June 5, 2007, to refer the Street Tree Subcommittee Recommended Outline with the following recommendations to staff: 1) Recommended Street Tree Planting List; and 2) Recommended Tree Planting Guidelines.**