DATE
PROJECT NAME Van Ness BRT
SUBJECT Technical Report: Tree Removal and Planting Opportunity Evaluation

This memorandum summarizes the process and findings of the Tree Removal and Planting Opportunities Evaluation conducted by BMS Design Group for the Van Ness Bus Rapid Transit (BRT) Project. It is intended to summarize the methodology and findings of the study, and provide background technical data for use by the San Francisco County Transportation Authority (SFCTA) and other consultants in the preparation of the Van Ness BRT Environmental Impact Statement (EIS)/Environmental Impact Report (EIR).

## OBJECTIVE

BMS Design Group was contracted by Parsons Corporation to inventory and assess potential impacts to existing trees in the Van Ness Avenue corridor in relation to the Van Ness Bus Rapid Transit (BRT) Project. Professional services were provided by BMS Design Group with assistance from HortScience, a consulting certified arborist.

The Van Ness BRT project produced four BRT configuration alternatives. All four alternatives include dedicated bus lanes along Van Ness Avenue extending from Mission Street to Lombard Street in San Francisco.

## Build Alternative 2

Build Alternative 2 runs on the side of the street, providing a dedicated bus lane that replaces the existing right-hand travel lane adjacent to the existing curbside parking which will remain. Stations will be located on the sidewalk corners similar to the manner in which existing bus stops are located today.

## Build Alternative 3

Build Alternative 3 provides two dedicated side-by-side bus lanes located in the center of the roadway in between two outside medians: one 4 -foot and one 9 -foot. BRT stations would be located on the 9 -foot median, allowing right-side boarding.

## Build Alternative 4

Build Alternative 4 is also located in the center of the roadway, with a single center 14-footwide median. Station platforms would be located on the center median, requiring left-side passenger boarding, as well as left side doors on vehicles. at station locations to allow for right-side loading at station platforms. The design variant of the LPA includes an additional northbound station at Vallejo Street.

## METHODOLOGY

For each alternative, the Tree Removal and Planting Opportunities Evaluation included several components:

- Existing tree inventory and assessment
- Tree removal analysis
- Tree replacement estimates
- Potential tree species lists for future planting.


## Existing Tree Inventory and Assessment

An inventory of existing trees in the project area was conducted in two parts. In July 2009, BMS Design Group conducted a simple, non-horticultural inventory of the location, species and quantity of median and sidewalk trees in the project area, using aerial photography and on-site evaluation. This survey identified a total of 101 existing trees in the Van Ness Avenue median and 314 trees in the sidewalk within the project area. Further determination of tree health and suitability for preservation was not undertaken at that time. The survey was used to prepare a preliminary assessment of potential tree removal impacts and tree replacement opportunities for each of three alternatives - Alternative 2, Alternative 3, and Alternative 4 - in 2009. As the only completed survey of all sidewalk trees in the Van Ness corridor, the quantity of sidewalk trees from this 2009 survey was also used in a subsequent tree removal analysis conducted in 2012.

In July 2012, a more extensive existing tree inventory and assessment was conducted by a certified arborist from the firm HortScience in order to assess not only tree location, species and quantity, but also age, health and suitability for preservation. This assessment determined a more precise count of 102 median trees in the project area. These median trees, as well as 38 sidewalk trees that would be potentially-impacted in Alternative 2 were evaluated. The following data was recorded during this inventory and assessment:
a. Verify species
b. Measure trunk diameter at 54 " above grade
c. Attach a numerically coded metal tag to the trunk
d. Visually assess current health and structural condition
e. Record observations on tree health and structure
f. Assess tree suitability for preservation
g. Assess current conflicts with hardscape such as displaced curb and/or pavement
h. Assess current crown structure with respect to the need for the tree canopy to be above 18' in order to clear the Overhead Contact System (OCS) of the future BRT system.
i. Assess the potential for relocation
j. Document the tree location on a map.

## Tree Removal Analysis

Based on the data collected during the Inventory and Assessment, a Tree Removal Analysis was conducted for each of the four alternatives - Alternative 2, Alternative 3, Alternative 4, and the LPA. This included:
a. Preparation of maps which overlaid the existing tree locations on each of the four BRT alternative configurations to determine impacts to trees which are likely to result from direct construction of the BRT bus lanes and stations in the Van Ness BRT Project.
b. Analysis of trees impacted by reduced median widths. Not all trees will survive a reduction in median width and the resulting reduction in planting area.
c. Determination of impacts which are likely to result from conflicts between the canopy of the existing trees and the OCS. The OCS is the electrical system that will run approximately 18 ’ above the ground to power the BRT vehicles. All tree limbs must maintain a 5' setback clearance on all sides of the power lines. Trees were evaluated for their ability to be pruned in such a way as to avoid the OCS lines. Cross-sections were drawn to illustrate and verify this situation.

Trees were categorized by location (median, east sidewalk, and west sidewalk), and suitability for preservation based on the following three factors:

- Size and age. This was estimated based on canopy height. Mature trees were defined as those greater than 13' in height, while young trees were defined as those which are less than 13' in height.
- Tree condition and health. For this assessment a rating scale of 0-5 was established. See table below for a description of the rating scale. Trees in good condition received a condition rating level of 4 or 5 , while trees in poor condition were rated at levels 1,2 , or 3.

An analysis matrix was prepared that grouped trees into the following categories:
a. Location
i. median
ii. east sidewalk
iii. west sidewalk
b. Tree Preservation Potential
i. trees to be removed
ii. trees to be preserved
c. Size/Age and Health
i. Mature trees, condition 4 or 5
ii. Young trees, condition 4 or 5
iii. Mature or young trees, condition 1, 2, or 3.

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TREE CONDITION RATING SCALE
RATING TREE CONDITION/HEALTH
    0 Tree is dead.
    1 Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics;
    extensive structural defects that cannot be abated.
    2 Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant
        structural defects that cannot be abated.
    3 Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf
        color, moderate structural defects that might be mitigated with regular care.
    4 Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could
        be corrected.
    5 A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure
        and form typical of the species.
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## Tree Replacement Estimates

Each alternative was evaluated in terms of tree replacement opportunities. In areas where construction of the BRT system will require removal of existing trees, new trees will be planted. All alternatives propose new trees in both the median and the sidewalks. New sidewalk trees will be planted where existing bus stops are removed, or in the case of Alternative 2, incorporated into the design of future BRT station platforms.

Estimates of tree replacement quantities were based on the following criteria:

## Median trees:

a. $20^{\prime}-0^{\prime \prime}$ on-center along the median where the median is greater than $9^{\prime}-0^{\prime \prime}$
b. $35^{\prime}-0$ " setback from intersections per Caltrans requirements.
c. $15 ’-0 "$ setback from existing trees

Sidewalk trees:
a. For Alternatives 3, 4, and the LPA, existing bus stops will be removed and replaced with street trees at 30’-0" on-center.
b. For Alternative 2, at future sidewalk BRT station platforms , four (4) new trees will be planted at each BRT station platform.

## Potential Tree Species List

BMS Design Group, with assistance from HortScience, also prepared a list of potential tree species suitable for future planting in the median after construction of the BRT. The list includes tree species for three of the four original alternatives (Alternative 2 does not impact the existing median trees). Since all trees are required to clear the OCS lines, only narrow/columnar and low trees were considered. Tree species were chosen based on the following criteria:
a. Tree form (narrow/columnar or low-growing trees due to the OCS)
b. Ability to survive in a median of specified width, which varies by alternative:
i. Alternative 3: 9'-0" median
ii. Alternative 4: $14^{\prime}-0^{\prime \prime}$ median
iii. Locally-Preferred Alternative (LPA): 11'-0" median
c. Tolerance to urban conditions (e.g.: wind, reflected heat)
d. Low water needs
e. Root growth pattern (e.g., trees that do not heave pavement)
f. Aesthetics (e.g., trees that are well-formed and contribute to the character of an urban boulevard).

## FINDINGS

## Tree Removal Analysis

The findings of the tree removal and preservation analysis are summarized in the tables that follow.

## Key Findings

Of the 416 total trees in the Van Ness corridor, Build Alternative 3 removes the greatest number of trees (102 trees), while Build Alternative 2 removes the fewest ( 58 trees). Build Alternative 4 removes 64 trees, while the LPA removes 90 trees. The LPA with Design Variant is no different than the LPA in terms of tree preservation.

The primary source of tree loss is the elimination of median planting areas (and associated median trees) due to construction of the BRT bus lanes and stations.

A reduction in median width causes additional tree loss, as established trees generally cannot survive the reduction in planting area.

OCS clearance did not require removal of any trees. It is estimated that all existing trees to remain are either tall enough to clear the OCS, or can be successfully pruned.

Tree preservation will require on-site evaluation at the time of construction. Trees listed for removal may be found to be preservable, and conversely, trees listed for preservation may require removal.

In two situations, trees were identified for removal not due to the BRT project, but rather due to extremely poor condition. This was the case for Trees \#112 and \#137.

## Tree Replacement Estimates

The findings of the tree replacement estimates are summarized by alternative in the table titled Tree Replacement Estimates by Alternative, according to the number of existing trees to remain and the number of new trees that can be planted.

## Key Findings

In all alternatives, the replacement number (existing trees to remain plus new replacement trees) exceeds the number of existing trees. Build Alternative 2 results in the highest number of total post construction trees ( 529 trees), followed by Build Alternative 3 with 525 trees, Build Alternative 4 with 513 trees, and the LPA with 469 trees.

## Potential Tree Species List

The tree species list includes several species of narrow/columnar and low trees that are considered appropriate for median planting in each of the alternatives. This is not a complete list of potentially
appropriate tree species. However, it establishes a preliminary basis that can be used during the future detailed design phases of the project.

## TREE REMOVAL BY ALTERNATIVE

Van Ness Corridor BRT Project
BMS Design Group with Hortscience, November 2, 2012
Updated by SFCTA, April 23, 2013
Updated by BMS Design Group, April 29, 2013
EXISTING TREES

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES |
| :--- | :---: | :---: | :---: | :---: |
| Median | 28 | 50 | 24 | 102 |
| West Sidewalk | N/A | N/A | N/A | 163 |
| East Sidewalk | N/A | N/A | N/A | 151 |

LPA - TREES TO BE REMOVED (Maximums)
LPA - TREES TO BE REMOVED (Maximums)

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO BE REMOVED |
| :--- | :---: | :---: | :---: | :---: |
| Median | 23 | 44 | 23 | 90 |
| West Sidewalk | N/A | N/A | N/A | 0 |
| East Sidewalk | N/A | N/A | N/A | 0 |

LPA - TREES TO REMAIN (Minimums)

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO REMAIN |
| :--- | :---: | :---: | :---: | :---: |
| Median | 5 | 6 | 1 | 12 |
| West Sidewalk | N/A | N/A | N/A | 163 |
| East Sidewalk |  |  |  |  |

ALTERNATIVE 2-TREES TO BE REMOVED

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO BE REMOVED |
| :--- | :---: | :---: | :---: | :---: |
| Median | 2 | 15 | 3 | 20 |
| West Sidewalk | 0 | 12 | 8 | 20 |
| East Sidewalk | 4 | 3 | 11 | 18 |

ALTERNATIVE 2-TREES TO REMAIN

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO REMAIN |
| :--- | :---: | :---: | :---: | :---: |
| Median | 26 | 35 | 21 | 82 |
| West Sidewalk | N/A | N/A | N/A | 143 |
| East Sidewalk | N/A | N/A | N/A | 133 |

ALTERNATIVE 3-TREES TO BE REMOVED

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO BE REMOVED |
| :--- | :---: | :---: | :---: | :---: |
| Median | 28 | 50 | 24 | 102 |
| West Sidewalk | N/A | N/A | N/A | 0 |
| East Sidewalk |  |  |  |  |

ALTERNATIVE 3-TREES TO REMAIN

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO REMAIN |
| :--- | :---: | :---: | :---: | :---: |
| Median | 0 | 0 | 0 | 0 |
| West Sidewalk | N/A | N/A | N/A | 163 |
| East Sidewalk | N/A | N/A | N/A | 151 |

ALTERNATIVE 4-TREES TO BE REMOVED

|  | Mature Trees; <br> Condition 4 or 5 | Young Trees; <br> Condition 4 or 5 | Mature or <br> YoungTrees; <br> Condition 1-3 | TOTAL TREES <br> TO BE REMOVED |
| :--- | :---: | :---: | :---: | :---: |
| Median | 11 | 40 | 13 | 64 |
| West Sidewalk | N/A | N/A | N/A | 0 |
| East Sidewalk |  |  |  |  |

ALTERNATIVE 4 - TREES TO REMAIN

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## TREE REPLACEMENT ESTIMATES BY ALTERNATIVE

Van Ness Corridor BRT Project
BMS Design Group with Hortscience, November 2, 2012
Updated by SFCTA, April 23, 2013

EXISTING TREES

| Median Trees | 102 trees |
| :--- | :--- |
| Sidewalk Trees | 314 trees |
| Total | 416 trees |

LPA

| Existing Trees to Remain |  |  |
| :---: | :---: | :---: |
| Median Trees | 12 trees | (Up to 90 removed to accommodate BRT) |
| Sidewalk Trees | 314 trees |  |
| Subtotal | 326 trees |  |
| New Trees |  |  |
| Median Trees | 95 trees | (Low or narrow trees at 20' o.c. alongside existing trees to remain) |
| Sidewalk Trees | 48 trees | (Existing bus stops replaced with new street trees at 30' o.c.) |
| Subtotal | 143 trees |  |
| TOTAL TREES | 469 trees |  |

ALTERNATIVE 2

| Existing Trees to Remain |  |  |
| :--- | ---: | :--- |
| Median Trees | 82 trees | (20 removed due to new median construction) |
| Sidewalk Trees | 276 trees (38 removed for station platforms) |  |
| Subtotal | 358 trees |  |
|  |  |  |
| New Trees | 103 trees |  |
| Median Trees | 68 trees | (4 trees per new station) |
| Sidewalk Trees | $\mathbf{1 7 1}$ trees |  |
| Subtotal |  |  |
|  |  |  |
| TOTAL TREES | 529 trees |  |

ALTERNATIVE 3

| Existing Trees to Remain |  |  |
| :--- | ---: | :--- |
| Median Trees | 0 trees | (102 removed to accommodate BRT) |
| Sidewalk Trees | 314 trees |  |
| Subtotal | 314 trees |  |
|  |  |  |
|  |  |  |
| New Trees | 163 trees |  |
| Median Trees | 48 trees | (Existing bus stops replaced with new street trees at 30' o.c.) |
| Sidewalk Trees | 211 trees |  |
| Subtotal | 525 trees |  |
|  |  |  |

TOTAL TREES

| ALTERNATIVE 4 |  |  |
| :---: | :---: | :---: |
| Existing Trees to Remain |  |  |
| Median Trees | 38 trees | (64 removed to accommodate BRT) |
| Sidewalk Trees | 314 trees |  |
| Subtotal | 352 trees |  |
| New Trees |  |  |
| Median Trees | 113 trees | (Low or narrow trees at 20' o.c. alongside existing trees to remain) |
| Sidewalk Trees | 48 trees | (Existing bus stops replaced with new street trees at 30' o.c.) |
| Subtotal | 161 trees |  |
| TOTAL TREES | 513 trees |  |

NOTES

1. Tree replacement estimates determined using Hortscience's Tree Survey data (July, 2012).
2. New median trees for all alternatives were calculated at $20^{\prime}$ on-center where the median is greater than $9^{\prime}$.
3. New median tree calculations assume a 35' setback from each intersection, and a $15^{\prime}$ setback on either side of existing trees to remain.

## POTENTIAL TREE SPECIES LIST

Van Ness Corridor BRT Project
BMS Design Group with Hortscience, October 29, 2012
Updated by SFCTA, April 5, 2013
LOCALLY-PREFERRED ALTERNATIVE (LPA): 9 to 11 -foot wide median
(Note: Not all species will be appropriate at narrower sections of median)

| NARROW/COLUMNAR TREES |  | TREE HEIGHT | LOW TREES |  | TREE HEIGHT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Acer campestre 'Queen Elizabeth' | Queen Elizabeth Hedge | $30^{\prime}$ | Pittosporum tobira | Tobira | 15' |
| Acer x freemanii 'Armstrong' | Armstrong Maple | $40^{\prime}$ | Cercis canadensis | Eastern Redbud | $25^{\prime}$ |
| Carpinus betulus 'fastigiata' | European Hornbeam | $40^{\prime}$ | Cercis occidentalis | Western Redbud | $15 '$ |
| Carpinus betulus 'Frans Fontaine' | Frans Fontaine Hornbea | 30-35' | Feijoa sellowiana | Pineapple Guava | $20^{\prime}$ |
| Cupressus sempervirens 'stricta' | Italian Cypress | 60 | Stewartia pseudocamillia | Japanese Stewartia | $20^{\prime}$ |
| Gingko biloba 'Princeton Sentry' | Princeton Sentry Gingkc | 40-50' | Tibouchina urvilleana | Princess Flower | $15^{\prime}$ |
| Juniperus scopulorum 'skyrocket' | Skyrocket Juniper | 15-20' | Arbutus unedo | Strawberry Tree | $25^{\prime}$ |

Juniperus virginiana 'hillspire' Koelreuteria paniculatum 'fastigiata'
Populus alba 'pyramidalis'
Prunus sargentii 'columnaris' Pyrus calleryana 'whitehouse' Quercus robur 'fastigiata' Syzgium paniculatum
Palm Trees

ALTERNATIVE 3: 9-foot wide median

| NARROW/COLUMNAR TREES |  | TREE HEIGHT | LOW TREES |  | TREE HEIGHT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Carpinus betulus 'fastigiata' | European Hornbeam | 40' | Pittosporum tobira | Tobira | 15' |
| Carpinus betulus 'Frans Fontaine' | Frans Fontaine Hornbea | 30-35' | Cercis canadensis | Eastern Redbud | $25^{\prime}$ |
| Cupressus sempervirens 'stricta' | Italian Cypress | $60^{\prime}$ | Cercis occidentalis | Western Redbud | $15^{\prime}$ |
| Juniperus scopulorum 'skyrocket' | Skyrocket Juniper | 15-20' | Feijoa sellowiana | Pineapple Guava | $20^{\prime}$ |
| Juniperus virginiana 'hillspire' | Hillspire Juniper | 10-15' | Stewartia pseudocamillia | Japanese Stewartia | $20^{\prime}$ |
| Koelreuteria paniculatum 'fastigiata' | Goldenrain Tree | $25^{\prime}$ | Tibouchina urvilleana | Princess Flower | $15^{\prime}$ |
| Palm Trees | various species |  | Arbutus unedo | Strawberry Tree | $25^{\prime}$ |

ALTERNATIVE 4: 14-foot wide median

| NARROW/COLUMNAR TREES |  | TREE HEIGHT |
| :--- | :--- | :---: |
| Acer campestre 'Queen Elizabeth' | Queen Elizabeth Hedge | $30^{\prime}$ |
| Acer x freemanii 'Armstrong' | Armstrong Maple | $40^{\prime}$ |
| Carpinus betulus 'fastigiata' | European Hornbeam | $40^{\prime}$ |
| Carpinus betulus 'Frans Fontaine' | Frans Fontaine Hornbea | $30-35^{\prime}$ |
| Cupressus sempervirens 'stricta' | Italian Cypress | $60^{\prime}$ |
| Gingko biloba 'Princeton Sentry' | Princeton Sentry Gingkc | $40-50^{\prime}$ |
| Juniperus scopulorum 'skyrocket' | Skyrocket Juniper | $15-20^{\prime}$ |
| Juniperus virginiana 'hillspire' | Hillspire Juniper | $10-15^{\prime}$ |
| Koelreuteria paniculatum 'fastigiata' | Goldenrain Tree | $25^{\prime}$ |
| Populus alba 'pyramidalis' | White Poplar | $50-60^{\prime}$ |
| Prunus sargentii 'columnaris' | Sargent Cherry | $40^{\prime}$ |
| Pyrus calleryana 'whitehouse' | Callery Pear | $40 '$ |
| Quercus robur 'fastigiata' | English Oak | $50 '$ |
| Syzgium paniculatum | Eugenia | $30 '$ |
| Palm Trees | various species |  |

LOW TREES

| Pittosporum tobira | Tobira | $15^{\prime}$ |
| :--- | :--- | :---: |
| Cercis canadensis | Eastern Redbud | $25^{\prime}$ |
| Cercis occidentalis | Western Redbud | $15^{\prime}$ |
| Feijoa sellowiana | Pineapple Guava | $20^{\prime}$ |
| Stewartia pseudocamillia | Japanese Stewartia | $20^{\prime}$ |
| Tibouchina urvilleana | Princess Flower | $15^{\prime}$ |
| Arbutus unedo | Strawberry Tree | $25^{\prime}$ |

## APPENDIX

1. Existing Tree Inventory
2. Inventory of Trees - Locally-Preferred Alternative (LPA) - Median Trees
3. Inventory of Trees - Alternative 2 - Sidewalk Trees
4. Inventory of Trees - Alternative 2 - Median Trees
5. Inventory of Trees - Alternative 4 - Median Trees
6. Tree Replacement Estimates by Block - LPA
7. Tree Replacement Estimates by Block - Alternative 2
8. Tree Replacement Estimates by Block - Alternative 3
9. Tree Replacement Estimates by Block - Alternative 4
10. Sections - Locally-Preferred Alternative (LPA)
11. Sections - Alternative 2
12. Sections - Alternative 3
13. Sections - Alternative 4


| EXISTING SURVEY |  |  |  | July, 2012 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | CONDITION 1=poor 5=excellent | SUITABILITY <br> for PRESERVATION | COMMENTS | PLANTING SPACE | ocs <br> Current height | RELOCATION POTENTIAL |  |  |
| No. |  |  |  |  |  |  |  |  |  | ? | Tree | Site |
| 18 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | <13' | No | Good tree | Problematic |
| 19 | Golden Gate | median | Brisbane box | 6 | 4 | Moderate | Good young tree; leans W.; round form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |
| 20 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |
| 21 | Golden Gate | median | Brisbane box | 4 | 4 | Moderate | Good young tree; upright form; broken branch on N . | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 22 | Turk | median | Red-flowering gum | 24 | 4 | Moderate | Corrected lean E.; displacing hardscape on W . to $1^{\prime \prime}$. | Median, narrow | >23' | No | Too large | Problematic |
| 23 | Turk | median | Red-flowering gum | 20 | 4 | Good | Upright form; trunk wound NE. | Median, narrow | >23' | No | Too large | Problematic |
| 24 | Turk | median | Red-flowering gum | 24 | 3 | Poor | Heavy lean S.; small crown. | Median, narrow | >23' | No | Poor tree | Problematic |
| 25 | Turk | median | Red-flowering gum | 28 | 2 | Poor | Declining; very thin crown. | Median, narrow | >23' | No | Poor tree | Problematic |
| 26 | Turk | W. | London plane | 8 | 4 | Moderate | Twig dieback in upper crown; crossing branches. | Cut-out | <13' | No | Good tree | Problematic |
| 27 | Turk | W. | London plane | 7 | 4 | Moderate | Twig dieback; already pruned E . | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 28 | Turk | W. | London plane | 5 | 2 | Poor | Small crown; extensive trunk wounds N . | Cut-out | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 29 | Turk | W. | London plane | 7 | 4 | Good | Upright form; fair structure. | Cut-out | $<13 '$ | No | Good tree | Problematic |
| 30 | Eddy | E. | London plane | 6 | 3 | Moderate | Asymmetric crown; slight lean E . | Cut-out | <13' | No | Okay tree | Problematic |
| 31 | Eddy | E. | London plane | 6 | 4 | Moderate | Codominant trunks @ 6'; twig dieback. | Cut-out | <13' | No | Good tree | Problematic |
| 32 | Eddy | E. | London plane | 6 | 4 | Moderate | Codominant trunks @ 10'; twig dieback; branch wound. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 33 | Eddy | E. | London plane | 8 | 4 | Moderate | Upright form; twig dieback. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 34 | Eddy | median | Red river gum | 10 | 3 | Poor | Crown bowed SE. @ 15'; twig dieback; lerp psyllid. | Median, cut-out | 13' to 23' | No | Poor tree | Problematic |
| 35 | Eddy | median | Red river gum | 16 | 4 | Moderate | Codominant trunks @ 15'; upright form; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic |
| 36 | Eddy | median | Red river gum | 14 | 4 | Moderate | Codominant trunks @ 12'; slight lean E.; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic |
| 37 | Eddy | median | Red river gum | 13 | 3 | Poor | Upright form; heavy to W.; trunk wounds; lerp psyllid. | Median, cut-out | >23' | No | Poor tree | Problematic |
| 38 | Eddy | median | Red river gum | 15 | 4 | Moderate | Upright form; twig dieback; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic |
| 39 | Ellis | median | Silver dollar gum | 24 | 4 | Moderate | Codominant trunks @ 15'; upright form. | Median, wide | >23' | No | Too large | Workable |
| 40 | Ellis | median | Silver dollar gum | 22 | 4 | Moderate | Codominant trunks @ 20'; lateral N. @ 16'. | Median, wide | >23' | No | Too large | Workable |
| 41 | Ellis | median | Silver dollar gum | 25 | 4 | Moderate | Multiple attachments @ 18'; lateral to E. @ 12'. | Median, wide | >23' | No | Too large | Workable |
| 42 | Ellis | median | Red-flowering gum | 25 | 3 | Moderate | Lost upper crown; upright stem SE. remains. | Median, wide | >23 ${ }^{\prime}$ | No | Too large | Workable |


| EXISTING SURVEY |  |  |  | July, 2012 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ \text { 1=poor } \\ \text { 5=excel- } \\ \text { lent } \end{gathered}$ | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE | ocs <br> Current height | RELOCATION POTENTIAL |  |  |
| No. |  |  | ? |  |  |  |  |  |  | Tree | Site |
| 43 | Ellis | W. |  | London plane | 5 | 5 | Good | Upright form; good young tree | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 44 | Ellis | W. | London plane | 4 | 5 | Good | Upright form; good young tree | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 45 | O'Farrell | median | Brisbane box | 6 | 3 | Poor | Good young tree; lost upper crown; slight lean W. | Median, cut-out | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 46 | O'Farrell | median | Brisbane box | 5 | 4 | Moderate | Good young tree; slight lean W. | Median, cut-out | $<13^{\prime}$ | No | Good tree | Problematic |
| 47 | O'Farrell | median | Brisbane box | 4 | 5 | Good | Good young tree. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 48 | O'Farrell | median | Brisbane box | 6 | 4 | Moderate | Good young tree; leans N. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 49 | O'Farrell | median | Brisbane box | 2 | 4 | Moderate | Good young tree; twig dieback. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |
| 50 | O'Farrell | median | Brisbane box | 1 | 4 | Moderate | Good young tree; twig dieback; small crown. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 51 | O'Farrell | E. | Fig | 3 | 2 | Poor | No tag; in moveable pot; dieback. | Pot | <13' | No | Poor tree | Pot |
| 52 | O'Farrell | E. | Fig | 3 | 2 | Poor | No tag; in moveable pot; dieback. | Pot | $<13{ }^{\prime}$ | No | Poor tree | Pot |
| 53 | Geary | median | Cork oak | 9 | 4 | Moderate | Trunk sweeps N.; spreading crown; sooty mold. | Median, wide | $<13 '$ | Yes | Good tree | Workable |
| 54 | Geary | median | Cork oak | 11 | 3 | Poor | Small crown; fair structure; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |
| 55 | Post | median | Cork oak | 6 | 3 | Poor | Small crown; leans W.; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |
| 56 | Post | median | Cork oak | 12 | 5 | Good | Multiple attachments @ 10'; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable |
| 57 | Post | median | Cork oak | 13 | 4 | Good | Relatively upright; sooty mold. | Median, wide |  | Yes? | Good tree | Workable |
| 58 | Post | W. | London plane | 5 | 3 | Poor | Upright form; topped @ 12'. | Teeny circle | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 59 | Post | W. | London plane | 6 | 3 | Poor | Upright form; topped @ 12'. | Teeny circle | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 60 | Post | w. | London plane | 6 | 3 | Poor | Upright form; topped @ 12'; cut out flooded; trunk wounded by tree guard. | Teeny circle | $<13 '$ | No | Poor tree | Problematic |
| 61 | Post | w. | London plane | 6 | 3 | Poor | Upright form; topped @ 12'; trunk wounded by tree guard. | Teeny circle | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 62 | Sutter | median | Red-flowering gum | 25 | 3 | Moderate | Lost upper crown; branch failure; leans W. | Median, wide | >23' | No | Too large | Workable |
| 63 | Sutter | median | Cork oak | 8 | 3 | Poor | Small crown; bleeding along trunk; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |
| 64 | Sutter | median | Red-flowering gum | 13 | 4 | Good | Upright form; lateral E. @ 15 . | Median, wide | 13' to $23{ }^{\prime}$ | Yes? | Good tree | Workable |
| 65 | Sutter | median | Red-flowering gum | 18 | 4 | Moderate | Spreading form; laterals E. <br> @ 12' \& 15'. | Median, wide | >23 ${ }^{\prime}$ | No | Too large | Workable |


| EXISTING SURVEY |  |  |  | July, 2012 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ \text { 1=poor } \\ \text { 5=excel- } \\ \text { lent } \end{gathered}$ | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE | ocs <br> Current height | RELOCATION POTENTIAL |  |  |
| No. |  |  | ? |  |  |  |  |  |  | Tree | Site |
| 66 | Sutter | E. |  | London plane | 6 | 3 | Moderate | Codominant trunks @ 8'; slight lean W.; fair structure. | Teeny circle | $<13{ }^{\prime}$ | No | Okay tree | Problematic |
| 67 | Sutter | E. | London plane | 12 | 5 | Good | Good form \& structure; displacing hardscape to 2 ". | Teeny circle | $13^{\prime}$ to $23{ }^{\prime}$ | No | Good tree | Problematic |
| 68 | Bush | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 69 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | <13' | No | Good tree | Problematic |
| 70 | Bush | median | Brisbane box | 7 | 4 | Moderate | Upright form; trunk wounds from branch tear outs. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 71 | Bush | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | <13' | No | Good tree | Problematic |
| 72 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 73 | Bush | median | Brisbane box | 3 | 5 | Good | Good young tree; slight lean S. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |
| 74 | Pine | median | Cork oak | 10 | 4 | Moderate | Codominant trunks @ 5'; sooty mold. | Median, wide | <13' | Yes? | Good tree | Workable |
| 75 | Pine | median | Red-flowering gum | 27 | 4 | Moderate | Codominant trunks @ 7'; upright with small lateral W . @ 10'; trunk wound S. | Median, wide | >23' | No | Too large | Workable |
| 76 | Pine | median | Cork oak | 10 | 3 | Poor | Codominant trunks @ 10'; twig dieback; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |
| 77 | Pine | median | Cork oak | 10 | 5 | Good | Good young tree; sooty mold. | Median, wide | <13' | Yes? | Good tree | Workable |
| 78 | California | W. | London plane | 9 | 4 | Moderate | Multiple attachments @ 12'; crown bowed E . | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 79 | California | W. | London plane | 8 | 4 | Moderate | Good young tree; twig dieback. | Cut-out | <13' | No | Good tree | Problematic |
| 80 | Sacramento | E. | London plane | 8 | 3 | Moderate | Slight lean NW; base growing against tree grate; twig dieback. | Cut-out | $<13{ }^{\prime}$ | No | Okay tree | Problematic |
| 81 | Sacramento | E. | London plane | 4 | 3 | Poor | Small crown; twig dieback. | Cut-out | <13' | No | Poor tree | Problematic |
| 82 | Sacramento | E. | London plane | 7 | 3 | Poor | Leans NW; base growing against tree grate; onesided to N . | Cut-out | $<13 '$ | No | Poor tree | Problematic |
| 83 | Sacramento | E. | London plane | 7 | 3 | Moderate | Leans NW; base growing against tree grate; onesided to N . | Cut-out | $<13{ }^{\prime}$ | No | Okay tree | Problematic |
| 84 | Sacramento | median | Silver dollar gum | 22 | 3 | Poor | One-sided S.; small lateral N. @ 6'. | Median, wide | >23' | No | Poor tree | Workable |
| 85 | Sacramento | median | Manna gum | 23 | 4 | Moderate | Upright form; good structure; large trunk wound W. | Median, wide | >23' | No | Too large | Workable |
| 86 | Sacramento | median | Red-flowering gum | 16 | 4 | Moderate | Upright form; high, small crown. | Median, wide | >23' | No | Too large | Workable |


| EXISTING SURVEY |  |  |  | July, 2012 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ 1=\text { poor } \\ 5=\text { excel- } \\ \text { lent } \\ \hline \hline \end{gathered}$ | ```SUITABILITY for PRESERVA- TION``` | COMMENTS | PLANTING SPACE | ocs <br> Current height | RELOCATION POTENTIAL |  |  |
| No. |  |  | ? |  |  |  |  |  |  | Tree | Site |
| 87 | Sacramento | median |  | Red-flowering gum | 28 | 3 | Moderate | Multiple attachments @ 7'; small, spreading crown; large trunk wounds. | Median, wide | >23' | No | Too large | Workable |
| 88 | Sacramento | median | Manna gum | 33 | 4 | Moderate | Multiple attachments @ 15'; spreading form; one-sided to S . | Median, wide | >23' | No | Too large | Workable |
| 89 | Sacramento | median | Manna gum | 30 | 4 | Moderate | Upright; one-sided to N . | Median, wide | >23' | No | Too large | Workable |
| 90 | Clay | median | Silver dollar gum | 24 | 4 | Moderate | Multiple attachments @ 20'; lateral to S. @ 18'. | Median, wide | >23' | No | Too large | Workable |
| 91 | Clay | median | Silver dollar gum | 19 | 4 | Moderate | Codominant trunks @ 18'; high crown. | Median, wide | >23' | No | Too large | Workable |
| 92 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 93 | Washington | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 94 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 95 | Washington | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic |
| 96 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 97 | Washington | median | Brisbane box | 2 | 5 | Good | New planting; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 98 | Washington | E. | Fig | 18 | 4 | Moderate | Multiple attachments @ 6'; candelabra form | Cut-out | >23' | No | Too large | Problematic |
| 99 | Washington | E. | Fig | 16 | 4 | Moderate | Multiple attachments @ 6'; candelabra form | Cut-out | >23' | No | Too large | Problematic |
| 100 | Washington | E. | Fig | 16 | 4 | Moderate | Multiple attachments @ 6'; candelabra form; branch wounds on W. | Cut-out | >23' | No | Too large | Problematic |
| 101 | Washington | E. | Fig | 16 | 3 | Poor | Multiple attachments @ 8'; trunk wound W . where stem was ripped out. | Cut-out | >23' | No | Poor tree | Problematic |
| 102 | Jackson | w. | London plane | 8 | 4 | Moderate | Upright form; crook @ 7'; twig dieback. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 103 | Jackson | W. | London plane | 9 | 4 | Moderate | Upright form; twig dieback. | Cut-out | $<13 '$ | No | Good tree | Problematic |
| 104 | Jackson | W. | London plane | 11 | 4 | Moderate | Upright form; twig dieback. | Cut-out | <13' | No | Good tree | Problematic |
| 105 | Jackson | W. | London plane | 8 | 4 | Good | High crown; slight lean W. | Cut-out | <13' | No | Good tree | Problematic |
| 106 | Jackson | median | Cork oak | 9 | 5 | Good | Rosa Parks tree. Good form \& structure; small leaves; sooty mold. | Median, wide | <13' | Yes | Good tree | Workable |
| 107 | Jackson | median | Silver dollar gum | 20 | 4 | Moderate | Multiple attachments @ 10'; good form \& structure. | Median, wide | >23' | No | Too large | Workable |
| 108 | Jackson | median | Brisbane box | 2 | 4 | Moderate | New planting; upright form; small crown | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 109 | Jackson | median | Brisbane box | 2 | 4 | Moderate | New planting; upright form; small crown | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 110 | Jackson | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |



| EXISTING SURVEY |  |  |  | July, 2012 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ \text { 1=poor } \\ \text { 5=excel- } \\ \text { lent } \end{gathered}$ | SUITABILITY <br> for <br> PRESERVATION | COMMENTS | PLANTING SPACE |  | RELOCATION POTENTIAL |  |  |
| No. |  |  | ? |  |  |  |  |  |  | Tree | Site |
| 131 | Union | W. |  | Fig | 20 | 3 | Moderate | Multiple attachments @ 7'; candelabra form; one-sided to E . | Cut-out | >23' | No | Too large | Problematic |
| 132 | Union | W. | Fig | 14 | 3 | Moderate | Multiple attachments @ 7'; candelabra form; one-sided to E . | Cut-out | >23' | No | Too large | Problematic |
| 133 | Union | W. | London plane | 8 | 4 | Moderate | Codominant trunks @ 7'; small crown. | Cut-out | <13' | No | Good tree | Problematic |
| 134 | Union | median | Red-flowering gum | 26 | 5 | Good | Multiple attachments @ 10'; spreading crown; good form \& structure. | Median, wide | >23' | No | Too large | Workable |
| 135 | Union | median | Flowering cherry | 3 | 4 | Moderate | Good young tree; dieback. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable |
| 136 | Union | median | Flowering cherry | 6 | 3 | Poor | Trunk wounds; dieback. | Median, wide | <13' | No | Poor tree | Workable |
| 137 | Union | median | Flowering cherry | 7 | 1 | Poor | All but dead. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |
| 138 | Union | median | Flowering cherry | 7 | 5 | Good | Good young tree. | Median, wide | <13' | Yes | Good tree | Workable |
| 139 | Union | median | Red-flowering gum | 27 | 4 | Moderate | Multiple attachments @ 15'; spreading form; small crown. | Median, wide | >23' | No | Too large | Workable |
| 140 | Filbert | median | Cork oak | 12 | 4 | Good | Good form \& structure; upright form; sooty mold. | Median, wide | <13' | Yes? | Good tree | Workable |

102



| TREE | LOCATION |  | SPECIES | TRUNK | CONDITION | SUITABILITY | COMMENTS | PLANTING | ocs |  | CATION PO | NTIAL | TO BE | Median Width |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. |  |  | DIAMETER <br> (in.) | $\begin{gathered} 1=\text { poor } \\ 5=\text { excel- } \\ \text { lent } \end{gathered}$ | for PRESERVATION |  | SPACE | Current height | ? | Tree | Site | REMOVED PRESERVED | at Preservation Trees |
| 45 | O'Farrell | median |  | Brisbane box | 6 | 3 | Poor | Good young tree; lost upper crown; slight lean W. | Median, cut-out | <13' | No | Poor tree | Problematic | X |  |
| 46 | O'Farrell | median | Brisbane box | 5 | 4 | Moderate | Good young tree; slight lean W. | Median, cut-out | <13' | No | Good tree | Problematic | x |  |
| 47 | O'Farrell | median | Brisbane box | 4 | 5 | Good | Good young tree. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 48 | O'Farrell | median | Brisbane box | 6 | 4 | Moderate | Good young tree; leans N . | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |  |
| 49 | O'Farrell | median | Brisbane box | 2 | 4 | Moderate | Good young tree; twig dieback. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 50 | O'Farrell | median | Brisbane box | 1 | 4 | Moderate | Good young tree; twig dieback; small crown. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 53 | Geary | median | Cork oak | 9 | 4 | Moderate | Trunk sweeps N.; spreading crown; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable | x |  |
| 54 | Geary | median | Cork oak | 11 | 3 | Poor | Small crown; fair structure; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable | x | *** See Comments |
| 55 | Post | median | Cork oak | 6 | 3 | Poor | Small crown; leans W.; sooty mold. | Median, wide | $<13 '$ | No | Poor tree | Workable | x | *** See Comments |
| 62 | Sutter | median | Red-flowering gum | 25 | 3 | Moderate | Lost upper crown; branch failure; leans W . | Median, wide | >23' | No | Too large | Workable | X |  |
| 63 | Sutter | median | Cork oak | 8 | 3 | Poor | Small crown; bleeding along trunk; sooty mold. | Median, wide | $<13 '$ | No | Poor tree | Workable | x |  |
| 64 | Sutter | median | Red-flowering gum | 13 | 4 | Good | Upright form; lateral E. @ 15'. | Median, wide | $13^{\prime}$ to ${ }^{\prime} 3^{\prime}$ | Yes? | Good tree | Workable | x |  |
| 65 | Sutter | median | Red-flowering gum | 18 | 4 | Moderate | Spreading form; laterals E. <br> @ 12' \& 15'. | Median, wide | >23' | No | Too large | Workable | x |  |
| 68 | Bush | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 69 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |  |
| 70 | Bush | median | Brisbane box | 7 | 4 | Moderate | Upright form; trunk wounds from branch tear outs. | Median, cut-out | <13' | No | Good tree | Problematic | x |  |
| 71 | Bush | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13^{\prime}$ | No | Good tree | Problematic | x |  |
| 72 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 73 | Bush | median | Brisbane box | 3 | 5 | Good | Good young tree; slight lean S. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 74 | Pine | median | Cork oak | 10 | 4 | Moderate | Codominant trunks @ 5'; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable | x | *** See Comments |
| 75 | Pine | median | Red-flowering gum | 27 | 4 | Moderate | Codominant trunks @ 7'; upright with small lateral W. <br> @ 10'; trunk wound S. | Median, wide | >23' | No | Too large | Workable | x | *** See Comments |
| 76 | Pine | median | Cork oak | 10 | 3 | Poor | Codominant trunks @ 10'; twig dieback; sooty mold. | Median, wide | $<13 '$ | No | Poor tree | Workable | x | *** See Comments |



| TREE No. | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ 1=\text { poor } \\ 5=\text { excel- } \\ \text { lent } \end{gathered}$ | SUITABILITY <br> for <br> PRESERVA- <br> TION | COMMENTS | PLANTING SPACE |  | RELOCATION POTENTIAL |  |  | TO BE REMOVED/ PRESERVED | Median Width at Preservation Trees |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | ? | Tree | Site |  |  |
| 114 | Pacific | median | Red ironbark | 21 | 3 | Poor | Upright form; very small crown; basal wound \& cavity S. | Median, wide | >23' | No | Poor tree | Workable | X |  |
| 115 | Pacific | median | Red river gum | 25 | 3 | Poor | Codominant trunks @ 15'; upright form; small crown; trunk wound W . with good callus growth. | Median, wide | >23' | No | Poor tree | Workable | x |  |
| 116 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | <13' | No | Good tree | Problematic | x |  |
| 117 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | x |  |
| 118 | Broadway | median | Brisbane box | 4 | 4 | Moderate | Leans W. | Cut-out | <13' | No | Good tree | Problematic | X |  |
| 119 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | <13' | No | Good tree | Problematic | x |  |
| 120 | Broadway | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | x |  |
| 121 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 122 | Vallejo | median | Plum | 9 | 3 | Poor | Multiple attachments @ 7'; thin/dieback in upper crown. | Median, wide | $<13 '$ | Yes | Poor tree | Workable | x |  |
| 123 | Vallejo | median | Plum | 9 | 3 | Poor | Multiple attachments @ 7'; trunk wound from stem failure; dieback in upper crown. | Median, wide | <13' | Yes | Poor tree | Workable | $x$ |  |
| 124 | Vallejo | median | Plum | 10 | 4 | Moderate | Multiple attachments @ 7'; spreading form. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable | X |  |
| 126 | Green | median | Red ironbark | 23 | 3 | Poor | Multiple crooks; high, small crown. | Median, wide | >23' | No | Too large | Workable | x |  |
| 127 | Green | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | <13' | No | Good tree | Problematic | x |  |
| 128 | Green | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | X |  |
| 129 | Green | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |  |
| 134 | Union | median | Red-flowering gum | 26 | 5 | Good | Multiple attachments @ 10'; spreading crown; good form \& structure. | Median, wide | >23' | No | Too large | Workable | x |  |
| 135 | Union | median | Flowering cherry | 3 | 4 | Moderate | Good young tree; dieback. | Median, wide | $<13 '$ | Yes | Good tree | Workable | $x$ |  |
| 136 | Union | median | Flowering cherry | 6 | 3 | Poor | Trunk wounds; dieback. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable | X |  |
| 137 | Union | median | Flowering cherry | 7 | 1 | Poor | All but dead. | Median, wide | <13' | No | Poor tree | Workable | X |  |
| 138 | Union | median | Flowering cherry | 7 | 5 | Good | Good young tree. | Median, wide | <13' | Yes | Good tree | Workable | X |  |
| 139 | Union | median | Red-flowering gum | 27 | 4 | Moderate | Multiple attachments @ 15'; spreading form; small crown. | Median, wide | >23' | No | Too large | Workable | x | ** See Comments |

NOTE
In LPA, all trees not affected by direct construction can be pruned to clear the OCS, with the exception of Trees \#112 (poor condition) \& \#113 (won't survive reduced median to 9')


| ALTERNATIVE 2 - Sidewalk |  |  |  | 10/15/2012 |  |  | COMMENTS | PLANTING SPACE | ocs Current height |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCA |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{aligned} & \text { CONDITION } \\ & 1=\text { poor } \\ & 5=\text { excel- } \\ & \text { lent } \\ & \hline \hline \end{aligned}$ | SUITABILITY <br> for <br> PRESERVATION |  |  |  | RELOCATION POTENTIAL |  |  |
| No. |  |  |  |  |  |  |  |  |  | ? | Tree | Site |
| TO BE REMOVED: EAST SIDEWALK TREES |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Market | E. | Brisbane box | 2 | 3 | Poor | Small thin crown; leaf neucrosis. | Cut-out | $<13 '$ | No | Poor tree | Problematic |
| 125 | Green | E. | Blackwood acacia | 24 | 2 | Poor | Multiple attachments @ 10'; one-sided to W.; trunk wound with decay. | Cut-out | >23' | No | Poor tree | Problematic |
| TO BE REMOVED: WEST SIDEWALK TREES |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | Turk | W. | London plane | 8 | 4 | Moderate | Twig dieback in upper crown; crossing branches. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 27 | Turk | W. | London plane | 7 | 4 | Moderate | Twig dieback; already pruned E. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 28 | Turk | w. | London plane | 5 | 2 | Poor | Small crown; extensive trunk wounds N . | Cut-out | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 29 | Turk | W. | London plane | 7 | 4 | Good | Upright form; fair structure. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 43 | Ellis | W. | London plane | 5 | 5 | Good | Upright form; good young tree | Cut-out | <13' | No | Good tree | Problematic |
| 44 | Ellis | W. | London plane | 4 | 5 | Good | Upright form; good young tree | Cut-out | $<13 '$ | No | Good tree | Problematic |
| 58 | Post | W. | London plane | 5 | 3 | Poor | Upright form; topped @ 12'. | Teeny circle | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 59 | Post | W. | London plane | 6 | 3 | Poor | Upright form; topped @ 12'. | Teeny circle | $<13{ }^{\prime}$ | No | Poor tree | Problematic |
| 60 | Post | w. | London plane | 6 | 3 | Poor | Upright form; topped @ 12'; cut out flooded; trunk wounded by tree guard. | Teeny circle | $<13^{\prime}$ | No | Poor tree | Problematic |
| 61 | Post | w. | London plane | 6 | 3 | Poor | Upright form; topped @ 12'; trunk wounded by tree guard. | Teeny circle | $<13 '$ | No | Poor tree | Problematic |
| 78 | California | W. | London plane | 9 | 4 | Moderate | Multiple attachments @ 12'; crown bowed E . | Cut-out | $<13 '$ | No | Good tree | Problematic |
| 79 | California | W. | London plane | 8 | 4 | Moderate | Good young tree; twig dieback. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 102 | Jackson | W. | London plane | 8 | 4 | Moderate | Upright form; crook @ 7'; twig dieback. | Cut-out | $<13 '$ | No | Good tree | Problematic |
| 103 | Jackson | W. | London plane | 9 | 4 | Moderate | Upright form; twig dieback. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |
| 104 | Jackson | W. | London plane | 11 | 4 | Moderate | Upright form; twig dieback. | Cut-out | <13' | No | Good tree | Problematic |
| 105 | Jackson | W. | London plane | 8 | 4 | Good | High crown; slight lean W. | Cut-out | <13' | No | Good tree | Problematic |
| 130 | Union | W. | Fig | 17 | 3 | Moderate | Codominant trunks @ 6'; candelabra form; one-sided to E . | Cut-out | >23' | No | Too large | Problematic |
| 131 | Union | W. | Fig | 20 | 3 | Moderate | Multiple attachments @ 7'; candelabra form; one-sided to E . | Cut-out | >23 | No | Too large | Problematic |
| 132 | Union | W. | Fig | 14 | 3 | Moderate | Multiple attachments @ 7'; candelabra form; one-sided to E . | Cut-out | >23' | No | Too large | Problematic |



| Tree Assessment |  |  | Van Ness Avenue Bus Rapid Transit Study BMS Design <br> San Francisco CA <br> July 2012 |  |  |  |  |  |  |  | HOR | SCIENCE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALTER | NATIVE 2 - | Median | 10/15/2012 |  |  |  |  |  |  |  |  |  |  |
| TREE <br> No. | LOCAT |  | SPECIES | TRUNK DIAMETER <br> (in.) | $\begin{gathered} \text { CONDITION } \\ 1=\text { poor } \\ 5=\text { excel- } \\ \text { lent } \\ \hline \end{gathered}$ | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE | OCS height | ? | CATION PO Tree | NTIAL Site | TO BE REMOVED/ PRESERVED |
| TREES TO BE REMOVED |  |  | Brisbane box |  |  |  |  |  |  |  |  |  |  |
| 45 | O'Farrell | median |  | 6 | 3 | Poor | Good young tree; lost upper crown; slight lean W. | Median, cut-out | $<13{ }^{\prime}$ | No | Poor tree | Problematic | x |
| 34 | Eddy | median | Red river gum | 10 | 3 | Poor | Crown bowed SE. @ 15'; twig dieback; lerp psyllid. | Median, cut-out | $13^{\prime}$ to 23 ' | No | Poor tree | Problematic | x |
| 37 | Eddy | median | Red river gum | 13 | 3 | Poor | Upright form; heavy to W.; trunk wounds; lerp psyllid. | Median, cut-out | >23 | No | Poor tree | Problematic | x |
| 46 | O'Farrell | median | Brisbane box | 5 | 4 | Moderate | Good young tree; slight lean W. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 48 | O'Farrell | median | Brisbane box | 6 | 4 | Moderate | Good young tree; leans N. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 49 | O'Farrell | median | Brisbane box | 2 | 4 | Moderate | Good young tree; twig dieback. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 50 | O'Farrell | median | Brisbane box | 1 | 4 | Moderate | Good young tree; twig dieback; small crown. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | X |
| 108 | Jackson | median | Brisbane box | 2 | 4 | Moderate | New planting; upright form; small crown | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 109 | Jackson | median | Brisbane box | 2 | 4 | Moderate | New planting; upright form; small crown | Cut-out | $<13 '$ | No | Good tree | Problematic | X |
| 35 | Eddy | median | Red river gum | 16 | 4 | Moderate | Codominant trunks @ 15'; upright form; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic | x |
| 38 | Eddy | median | Red river gum | 15 | 4 | Moderate | Upright form; twig dieback; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic | x |
| 10 | McAllister | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 11 | McAllister | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 12 | McAllister | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 92 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 93 | Washington | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 95 | Washington | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 96 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 97 | Washington | median | Brisbane box Brisbane box | 2 | 5 | Good | New planting; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | X |
| 110 | Jackson | median |  | 4 | 5 | Good | Good young tree; upright form. | Cut-out | <13' | No | Good tree | Problematic | X |


| ALTERNATIVE 2 - Median |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE No. | LOCATION |  | SPECIES | TRUNK DIAMETER <br> (in.) | CONDITION <br> 1=poor 5=excellent | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE | ocs <br> Current height | RELOCATION POTENTIAL |  |  | TO BE REMOVED/ PRESERVED |
|  |  |  | ? |  |  |  |  |  |  | Tree | Site |  |
| TREES TO REMAIN |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 137 | Union | median |  | Flowering cherry | 7 | 1 | Poor | All but dead. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |  |
| 25 | Turk | median | Red-flowering gum | 28 | 2 | Poor | Declining; very thin crown. | Median, narrow | >23' | No | Poor tree | Problematic |  |
| 112 | Pacific | median | Silver dollar gum | 21 | 2 | Poor | Heavy lean E.; large trunk wound on E.; small crown | Median, wide | >23' | No | Poor tree | Workable |  |
| 4 | Grove | median | Cork oak | 10 | 3 | Poor | No tag; surrounded by fence; slight crook @ 7'; sooty mold; bleeding along trunk. | Median, narrow | <13' | No | Poor tree | Problematic |  |
| 54 | Geary | median | Cork oak | 11 | 3 | Poor | Small crown; fair structure; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |  |
| 55 | Post | median | Cork oak | 6 | 3 | Poor | Small crown; leans W.; sooty mold. | Median, wide | $<13 '$ | No | Poor tree | Workable |  |
| 63 | Sutter | median | Cork oak | 8 | 3 | Poor | Small crown; bleeding along trunk; sooty mold. | Median, wide | <13' | No | Poor tree | Workable |  |
| 76 | Pine | median | Cork oak | 10 | 3 | Poor | Codominant trunks @ 10'; twig dieback; sooty mold. | Median, wide | <13' | No | Poor tree | Workable |  |
| 122 | Vallejo | median | Plum | 9 | 3 | Poor | Multiple attachments @ 7'; thin/dieback in upper crown. | Median, wide | <13' | Yes | Poor tree | Workable |  |
| 123 | Vallejo | median | Plum | 9 | 3 | Poor | Multiple attachments @ 7'; trunk wound from stem failure; dieback in upper crown. | Median, wide | $<13^{\prime}$ | Yes | Poor tree | Workable |  |
| 136 | Union | median | Flowering cherry | 6 | 3 | Poor | Trunk wounds; dieback. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable |  |
| 6 | Grove | median | Red-flowering gum | 19 | 3 | Moderate | No tag; surrounded by fence; small crown; large trunk wound NW. | Median, narrow | >23' | No | Too large | Problematic |  |
| 14 | McAllister | median | Silver dollar gum | 23 | 3 | Poor | Codominant trunks @ 12'; rib \& reaction wood @ attachment; thinning crown. | Median, wide | >23' | No | Poor tree | Workable |  |
| 24 | Turk | median | Red-flowering gum | 24 | 3 | Poor | Heavy lean S.; small crown. | Median, narrow | >23' | No | Poor tree | Problematic |  |
| 42 | Ellis | median | Red-flowering gum | 25 | 3 | Moderate | Lost upper crown; upright stem SE. remains. | Median, wide | >23' | No | Too large | Workable |  |
| 62 | Sutter | median | Red-flowering gum | 25 | 3 | Moderate | Lost upper crown; branch failure; leans W . | Median, wide | >23' | No | Too large | Workable |  |
| 84 | Sacramento | median | Silver dollar gum | 22 | 3 | Poor | One-sided S.; small lateral N. @ 6'. | Median, wide | >23' | No | Poor tree | Workable |  |
| 87 | Sacramento | median | Red-flowering gum | 28 | 3 | Moderate | Multiple attachments @ 7'; small, spreading crown; large trunk wounds. | Median, wide | >23' | No | Too large | Workable |  |
| 114 | Pacific | median | Red ironbark | 21 | 3 | Poor | Upright form; very small crown; basal wound \& cavity S. | Median, wide | >23' | No | Poor tree | Workable |  |


| 10/15/2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK | CONDITION | SUITABILITY | COMMENTS | PLANting | ocs | RELOCATION POTENTIAL |  |  | TO BE |
| No. |  |  | DIAMETER <br> (in.) | $\begin{gathered} 1=\text { poor } \\ 5=\text { excel- } \\ \text { lent } \\ \hline \end{gathered}$ | for PRESERVATION |  | SPACE | Current height | ? | Tree | Site | REMOVED/ PRESERVED |
| 115 | Pacific | median |  | Red river gum | 25 | 3 | Poor | Codominant trunks @ 15'; upright form; small crown; trunk wound W. with good callus growth. | Median, wide | >23' | No | Poor tree | Workable |  |
| 126 | Green | median | Red ironbark | 23 | 3 | Poor | Multiple crooks; high, small crown. | Median, wide | >23' | No | Too large | Workable |  |
| 7 | Grove | median | Cork oak | 8 | 4 | Moderate | No tag; surrounded by fence; codominant trunks @ 6 '; sooty mold. | Median, narrow | $<13 '$ | No | Good tree | Problematic |  |
| 19 | Golden Gate | median | Brisbane box | 6 | 4 | Moderate | Good young tree; leans W.; round form. | Median, cut-out | <13' | No | Good tree | Problematic |  |
| 21 | Golden Gate | median | Brisbane box | 4 | 4 | Moderate | Good young tree; upright form; broken branch on N . | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 53 | Geary | median | Cork oak | 9 | 4 | Moderate | Trunk sweeps N.; spreading crown; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable |  |
| 70 | Bush | median | Brisbane box | 7 | 4 | Moderate | Upright form; trunk wounds from branch tear outs. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 74 | Pine | median | Cork oak | 10 | 4 | Moderate | Codominant trunks @ 5'; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable |  |
| 118 | Broadway | median | Brisbane box | 4 | 4 | Moderate | Leans W. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 124 | Vallejo | median | Plum | 10 | 4 | Moderate | Multiple attachments @ 7'; spreading form. | Median, wide | <13' | Yes? | Good tree | Workable |  |
| $135$ | Union | median | Flowering cherry | 3 | 4 | Moderate | Good young tree; dieback. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable |  |
| 140 | Filbert | median | Cork oak | 12 | 4 | Good | Good form \& structure; upright form; sooty mold. | Median, wide | <13' | Yes? | Good tree | Workable |  |
| 64 | Sutter | median | Red-flowering gum | 13 | 4 | Good | Upright form; lateral E. @ 15'. | Median, wide | 13' to $23^{\prime}$ | Yes? | Good tree | Workable |  |
| 3 | Hayes | median | Red-flowering gum | 27 | 4 | Moderate | Good form \& structure; trunk wounds on SE. | Median, wide | >23' | No | Too large | Workable |  |
| 5 | Grove | median | Red-flowering gum | 26 | 4 | Moderate | No tag; surrounded by fence; bottle butt; small crown for diameter. | Median, narrow | >23 | No | Too large | Problematic |  |
| 13 | McAllister | median | Silver dollar gum | 36 | 4 | Moderate | Codominant trunks @ 15'; twig dieback; lateral SE. | Median, wide | >23' | No | Too large | Workable |  |
| 15 | McAllister | median | Silver dollar gum | 24 | 4 | Moderate | Multiple attachments @ 15'; upright form; trunk wound on N . | Median, wide | >23' | No | Too large | Workable |  |
| 22 | Turk | median | Red-flowering gum | 24 | 4 | Moderate | Corrected lean E.; displacing hardscape on W . to $1^{\prime \prime}$. | Median, narrow | >23' | No | Too large | Problematic |  |
| 23 | Turk | median | Red-flowering gum | 20 | 4 | Good | Upright form; trunk wound NE. | Median, narrow | >23' | No | Too large | Problematic |  |
| 36 | Eddy | median | Red river gum | 14 | 4 | Moderate | Codominant trunks @ 12'; slight lean E.; lerp psyllid. | Median, cut-out | >23 ${ }^{\prime}$ | No | Too large | Problematic |  |
| 39 | Ellis | median | Silver dollar gum | 24 | 4 | Moderate | Codominant trunks @ 15'; upright form. | Median, wide | >23' | No | Too large | Workable |  |


| 10/15/2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK | CONDITION | SUITABILITY | COMMENTS | PLANTING | ocs | RELOCATION POTENTIAL |  |  | TO BE |
| No. |  |  | DIAMETER <br> (in.) | $\begin{gathered} 1=\text { poor } \\ 5=\text { excel- } \\ \text { lent } \\ \hline \end{gathered}$ | for PRESERVATION |  | SPACE | Current height | ? | Tree | Site | REMOVED/ PRESERVED |
| 40 | Ellis | median |  | Silver dollar gum | 22 | 4 | Moderate | Codominant trunks @ 20'; lateral N. @ 16'. | Median, wide | >23' | No | Too large | Workable |  |
| 41 | Ellis | median | Silver dollar gum | 25 | 4 | Moderate | Multiple attachments @ 18'; lateral to E. @ 12'. | Median, wide | >23' | No | Too large | Workable |  |
| 65 | Sutter | median | Red-flowering gum | 18 | 4 | Moderate | Spreading form; laterals E. <br> @ 12 \& $15^{\prime}$. | Median, wide | >23' | No | Too large | Workable |  |
| 75 | Pine | median | Red-flowering gum | 27 | 4 | Moderate | Codominant trunks @ 7'; upright with small lateral W. @ 10'; trunk wound S. | Median, wide | >23' | No | Too large | Workable |  |
| 85 | Sacramento | median | Manna gum | 23 | 4 | Moderate | Upright form; good structure; large trunk wound W. | Median, wide | >23' | No | Too large | Workable |  |
| 86 | Sacramento | median | Red-flowering gum | 16 | 4 | Moderate | Upright form; high, small crown. | Median, wide | >23 | No | Too large | Workable |  |
| 88 | Sacramento | median | Manna gum | 33 | 4 | Moderate | Multiple attachments @ 15'; spreading form; one-sided to S . | Median, wide | >23' | No | Too large | Workable |  |
| 89 | Sacramento | median | Manna gum | 30 | 4 | Moderate | Upright; one-sided to N . | Median, wide | >23' | No | Too large | Workable |  |
| 90 | Clay | median | Silver dollar gum | 24 | 4 | Moderate | Multiple attachments @ 20'; lateral to S. @ 18'. | Median, wide | >23' | No | Too large | Workable |  |
| 91 | Clay | median | Silver dollar gum | 19 | 4 | Moderate | Codominant trunks @ 18'; high crown. | Median, wide | >23' | No | Too large | Workable |  |
| 107 | Jackson | median | Silver dollar gum | 20 | 4 | Moderate | Multiple attachments @ 10'; good form \& structure. | Median, wide | >23' | No | Too large | Workable |  |
| 111 | Pacific | median | Silver dollar gum | 18 | 4 | Moderate | Codominant trunks @ 15'; corrected lean E.; large trunk wound E . | Median, wide | >23' | No | Too large | Workable |  |
| 113 | Pacific | median | Red ironbark | 29 | 4 | Moderate | Upright form; good structure. | Median, wide | >23' | No | Too large | Workable |  |
| 139 | Union | median | Red-flowering gum | 27 | 4 | Moderate | Multiple attachments @ 15'; spreading form; small crown. | Median, wide | >23' | No | Too large | Workable |  |
| 8 | Grove | median | Red-flowering gum | 23 | 4 | Moderate | No tag; surrounded by fence; upper canopy seems thin. | Median, narrow | 13' to $23^{\prime}$ | No | Too large | Problematic |  |
| 57 | Post | median | Cork oak | 13 | 4 | Good | Relatively upright; sooty mold. | Median, wide |  | Yes? | Good tree | Workable |  |
| 9 | Grove | median | Cork oak | 8 | 5 | Good | No tag; surrounded by fence; short, spreading crown. | Median, narrow | <13' | No | Good tree | Problematic |  |
| 16 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 17 | Golden Gate | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |  |
| 18 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 20 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |  |


| ALTERNATIVE 2 - Median |  |  |  | 10/15/2012 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ \text { 1=poor } \\ 5=\text { excel- } \\ \text { lent } \\ \hline \end{gathered}$ | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE | ocs <br> Current height | RELOCATION POTENTIAL |  |  | TO BE REMOVED/ PRESERVED |
| No. |  |  | ? |  |  |  |  |  |  | Tree | Site |  |
| 47 | O'Farrell | median |  | Brisbane box | 4 | 5 | Good | Good young tree. | Median, cut-out | <13' | No | Good tree | Problematic |  |
| 56 | Post | median | Cork oak | 12 | 5 | Good | Multiple attachments @ 10'; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable |  |
| 68 | Bush | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 69 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |  |
| 71 | Bush | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 72 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic |  |
| 73 | Bush | median | Brisbane box | 3 | 5 | Good | Good young tree; slight lean S. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 77 | Pine | median | Cork oak | 10 | 5 | Good | Good young tree; sooty mold. | Median, wide | <13' | Yes? | Good tree | Workable |  |
| 94 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 106 | Jackson | median | Cork oak | 9 | 5 | Good | Rosa Parks tree. Good form \& structure; small leaves; sooty mold. | Median, wide | $<13 '$ | Yes | Good tree | Workable |  |
| 116 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 117 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 119 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 120 | Broadway | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 121 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 127 | Green | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 128 | Green | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 129 | Green | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic |  |
| 138 | Union | median | Flowering cherry | 7 | 5 | Good | Good young tree. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable |  |
| 2 | Hayes | median | Red-flowering gum | 19 | 5 | Good | Good form \& structure. | Median, wide | >23' | No | Too large | Workable |  |
| 134 | Union | median | Red-flowering gum | 26 | 5 | Good | Multiple attachments @ 10'; spreading crown; good form \& structure. | Median, wide | >23' | No | Too large | Workable |  |



| ALTERNATIVE 4 - Median 10/23/2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE <br> No. | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | $\begin{gathered} \text { CONDITION } \\ \text { 1=poor } \\ 5=\text { excel- } \\ \text { lent } \\ \hline \end{gathered}$ | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE |  |  | CATION PO Tree | NTIAL | TO BE REMOVED/ PRESERVED |
| 65 | Sutter | median | Red-flowering gum | 18 | 4 | Moderate | Spreading form; laterals E. <br> @ $12^{\prime} \& 5^{\prime}$. | Median, wide | >23' | No | Too large | Workable | p |
| 70 | Bush | median | Brisbane box | 7 | 4 | Moderate | Upright form; trunk wounds from branch tear outs. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | $p$ |
| 74 | Pine | median | Cork oak | 10 | 4 | Moderate | Codominant trunks @ 5'; sooty mold. | Median, wide | <13' | Yes? | Good tree | Workable | p |
| 75 | Pine | median | Red-flowering gum | 27 | 4 | Moderate | Codominant trunks @ 7'; upright with small lateral W . @ 10'; trunk wound S. | Median, wide | >23' | No | Too large | Workable | p |
| 76 | Pine | median | Cork oak | 10 | 3 | Poor | Codominant trunks @ 10'; twig dieback; sooty mold. | Median, wide | $<13 '$ | No | Poor tree | Workable | p |
| 77 | Pine | median | Cork oak | 10 | 5 | Good | Good young tree; sooty mold. | Median, wide | $<13 '$ | Yes? | Good tree | Workable | p |
| 88 | Sacramento | median | Manna gum | 33 | 4 | Moderate | Multiple attachments @ 15'; spreading form; one-sided to S . | Median, wide | >23' | No | Too large | Workable | p |
| 89 | Sacramento | median | Manna gum | 30 | 4 | Moderate | Upright; one-sided to N . | Median, wide | >23' | No | Too large | Workable | p |
| 90 | Clay | median | Silver dollar gum | 24 | 4 | Moderate | Multiple attachments @ 20'; lateral to S. @ 18'. | Median, wide | >23' | No | Too large | Workable | p |
| 91 | Clay | median | Silver dollar gum | 19 | 4 | Moderate | Codominant trunks @ 18'; high crown. | Median, wide | >23' | No | Too large | Workable | p |
| 94 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | p |
| 111 | Pacific | median | Silver dollar gum | 18 | 4 | Moderate | Codominant trunks @ 15'; corrected lean E.; large trunk wound E . | Median, wide | >23 ${ }^{\prime}$ | No | Too large | Workable | p |
| 113 | Pacific | median | Red ironbark | 29 | 4 | Moderate | Upright form; good structure. | Median, wide | >23' | No | Too large | Workable | p |
| 114 | Pacific | median | Red ironbark | 21 | 3 | Poor | Upright form; very small crown; basal wound \& cavity S. | Median, wide | >23' | No | Poor tree | Workable | p |
| 115 | Pacific | median | Red river gum | 25 | 3 | Poor | Codominant trunks @ 15'; upright form; small crown; trunk wound W . with good callus growth. | Median, wide | >23 | No | Poor tree | Workable | p |
| 122 | Vallejo | median | Plum | 9 | 3 | Poor | Multiple attachments @ 7'; thin/dieback in upper crown. | Median, wide | $<13{ }^{\prime}$ | Yes | Poor tree | Workable | p |
| 123 | Vallejo | median | Plum | 9 | 3 | Poor | Multiple attachments @ 7'; trunk wound from stem failure; dieback in upper crown. | Median, wide | $<13{ }^{\prime}$ | Yes | Poor tree | Workable | p |
| 124 | Vallejo | median | Plum | 10 | 4 | Moderate | Multiple attachments @ 7'; spreading form. | Median, wide | $<13 '$ | Yes? | Good tree | Workable | p |
| 126 | Green | median | Red ironbark | 23 | 3 | Poor | Multiple crooks; high, small crown. | Median, wide | >23' | No | Too large | Workable | p |
| 138 | Union | median | Flowering cherry | 7 | 5 | Good | Good young tree. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable | $p$ |


| 10/23/2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE <br> No. | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | CONDITION <br> 1=poor <br> 5=excellent | ```SUITABILITY for PRESERVA- TION``` | COMMENTS | PLANTING SPACE |  |  | CATION PO | NTIAL | TO BE REMOVED/ PRESERVED |
| 139 | Union | median | Red-flowering gum | 27 | 4 | Moderate | Multiple attachments @ 15'; spreading form; small crown. | Median, wide | >23' | No | Too large | Workable | p |
| 140 | Filbert | median | Cork oak | 12 | 4 | Good | Good form \& structure; upright form; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable | p |
| TO BE REMOVED: MEDIAN TREES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Hayes | median | Red-flowering gum | 19 | 5 | Good | Good form \& structure. | Median, wide | >23' | No | Too large | Workable | x |
| 3 | Hayes | median | Red-flowering gum | 27 | 4 | Moderate | Good form \& structure; trunk wounds on SE. | Median, wide | >23' | No | Too large | Workable | X |
| 8 | Grove | median | Red-flowering gum | 23 | 4 | Moderate | No tag; surrounded by fence; upper canopy seems thin. | Median, narrow | $13^{\prime}$ to $23^{\prime}$ | No | Too large | Problematic | x |
| 9 | Grove | median | Cork oak | 8 | 5 | Good | No tag; surrounded by fence; short, spreading crown. | Median, narrow | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 10 | McAllister | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 11 | McAllister | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | X |
| 12 | McAllister | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 16 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 17 | Golden Gate | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 18 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 20 | Golden Gate | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 21 | Golden Gate | median | Brisbane box | 4 | 4 | Moderate | Good young tree; upright form; broken branch on N . | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 23 | Turk | median | Red-flowering gum | 20 | 4 | Good | Upright form; trunk wound NE. | Median, narrow | >23' | No | Too large | Problematic | x |
| 24 | Turk | median | Red-flowering gum | 24 | 3 | Poor | Heavy lean S.; small crown. | Median, narrow | >23' | No | Poor tree | Problematic | x |
| 25 | Turk | median | Red-flowering gum | 28 | 2 | Poor | Declining; very thin crown. | Median, narrow | >23' | No | Poor tree | Problematic | x |
| 34 | Eddy | median | Red river gum | 10 | 3 | Poor | Crown bowed SE. @ 15'; twig dieback; lerp psyllid. | Median, cut-out | 13' to 23' | No | Poor tree | Problematic | X |
| 35 | Eddy | median | Red river gum | 16 | 4 | Moderate | Codominant trunks @ 15'; upright form; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic | x |
| 36 | Eddy | median | Red river gum | 14 | 4 | Moderate | Codominant trunks @ 12'; slight lean E.; lerp psyllid. | Median, cut-out | >23' | No | Too large | Problematic | x |
| 37 | Eddy | median | Red river gum | 13 | 3 | Poor | Upright form; heavy to W.; trunk wounds; lerp psyllid. | Median, cut-out | >23' | No | Poor tree | Problematic | x |
| 38 | Eddy | median | Red river gum | 15 | 4 | Moderate | Upright form; twig dieback; lerp psyllid. | Median, cut-out | >23 | No | Too large | Problematic | x |


| 10/23/2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE No. | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | CONDITION <br> 1=poor 5=excellent | SUITABILITY <br> for PRESERVATION | COMMENTS | PLANTING SPACE | ocs Current height |  | CATION PO | NTIAL Site | TO BE REMOVED/ PRESERVED |
| 45 | O'Farrell | median | Brisbane box | 6 | 3 | Poor | Good young tree; lost upper crown; slight lean W. | Median, cut-out | <13' | No | Poor tree | Problematic | X |
| 46 | O'Farrell | median | Brisbane box | 5 | 4 | Moderate | Good young tree; slight lean W. | Median, cut-out | <13' | No | Good tree | Problematic | x |
| 47 | O'Farrell | median | Brisbane box | 4 | 5 | Good | Good young tree. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 48 | O'Farrell | median | Brisbane box | 6 | 4 | Moderate | Good young tree; leans N. | Median, cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 49 | O'Farrell | median | Brisbane box | 2 | 4 | Moderate | Good young tree; twig dieback. | Median, cut-out | <13' | No | Good tree | Problematic | X |
| 50 | O'Farrell | median | Brisbane box | 1 | 4 | Moderate | Good young tree; twig dieback; small crown. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 55 | Post | median | Cork oak | 6 | 3 | Poor | Small crown; leans W.; | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable | x |
| 56 | Post | median | Cork oak | 12 | 5 | Good | Multiple attachments @ 10'; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes? | Good tree | Workable | x |
| 57 | Post | median | Cork oak | 13 | 4 | Good | Relatively upright; sooty mold. | Median, wide |  | Yes? | Good tree | Workable | x |
| 62 | Sutter | median | Red-flowering gum | 25 | 3 | Moderate | Lost upper crown; branch failure; leans W. | Median, wide | >23' | No | Too large | Workable | x |
| 63 | Sutter | median | Cork oak | 8 | 3 | Poor | Small crown; bleeding along trunk; sooty mold. | Median, wide | $<13{ }^{\prime}$ | No | Poor tree | Workable | x |
| 68 | Bush | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Median, cut-out | <13' | No | Good tree | Problematic | x |
| 69 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 71 | Bush | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Median, cut-out | <13' | No | Good tree | Problematic | X |
| 72 | Bush | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Median, cut-out | $<13^{\prime}$ | No | Good tree | Problematic | x |
| 73 | Bush | median | Brisbane box | 3 | 5 | Good | Good young tree; slight lean S. | Median, cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 84 | Sacramento | median | Silver dollar gum | 22 | 3 | Poor | One-sided S.; small lateral N. @ 6'. | Median, wide | >23' | No | Poor tree | Workable | x |
| 85 | Sacramento | median | Manna gum | 23 | 4 | Moderate | Upright form; good structure; large trunk wound W. | Median, wide | >23' | No | Too large | Workable | x |
| 86 | Sacramento | median | Red-flowering gum | 16 | 4 | Moderate | Upright form; high, small crown. | Median, wide | >23' | No | Too large | Workable | x |
| 87 | Sacramento | median | Red-flowering gum | 28 | 3 | Moderate | Multiple attachments @ 7'; small, spreading crown; large trunk wounds. | Median, wide | >23' | No | Too large | Workable | x |
| 92 | Washington | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 93 | Washington | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | X |
| 95 | Washington | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | X |


| ALTERNATIVE 4 - Median |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREE | LOCATION |  | SPECIES | TRUNK DIAMETER (in.) | CONDITION <br> 1=poor 5=excellent | SUITABILITY for PRESERVATION | COMMENTS | PLANTING SPACE | OCS Current height | RELOCATION POTENTIAL |  |  | TO BE REMOVED/ PRESERVED |
| No. |  |  | ? |  |  |  |  |  |  | Tree | Site |  |
| 96 | Washington | median |  | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | <13' | No | Good tree | Problematic | X |
| 97 | Washington | median | Brisbane box | 2 | 5 | Good | New planting; upright form. | Cut-out | <13' | No | Good tree | Problematic | x |
| 106 | Jackson | median | Cork oak | 9 | 5 | Good | Rosa Parks tree. Good form \& structure; small leaves; sooty mold. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable | x |
| 107 | Jackson | median | Silver dollar gum | 20 | 4 | Moderate | Multiple attachments @ 10'; good form \& structure. | Median, wide | >23' | No | Too large | Workable | X |
| 108 | Jackson | median | Brisbane box | 2 | 4 | Moderate | New planting; upright form; small crown | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 109 | Jackson | median | Brisbane box | 2 | 4 | Moderate | New planting; upright form; small crown | Cut-out | <13' | No | Good tree | Problematic | x |
| 110 | Jackson | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 112 | Pacific | median | Silver dollar gum | 21 | 2 | Poor | Heavy lean E.; large trunk wound on E.; small crown | Median, wide | >23' | No | Poor tree | Workable | X-poor cond |
| 116 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 117 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | <13' | No | Good tree | Problematic | x |
| 118 | Broadway | median | Brisbane box | 4 | 4 | Moderate | Leans W. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | X |
| 119 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 120 | Broadway | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 121 | Broadway | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 127 | Green | median | Brisbane box | 6 | 5 | Good | Good young tree; upright form. | Cut-out | $<13 '$ | No | Good tree | Problematic | x |
| 128 | Green | median | Brisbane box | 4 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | x |
| 129 | Green | median | Brisbane box | 5 | 5 | Good | Good young tree; upright form. | Cut-out | $<13{ }^{\prime}$ | No | Good tree | Problematic | X |
| 134 | Union | median | Red-flowering gum | 26 | 5 | Good | Multiple attachments @ 10'; spreading crown; good form \& structure. | Median, wide | >23' | No | Too large | Workable | x |
| $135$ | Union | median | Flowering cherry | 3 | 4 | Moderate | Good young tree; dieback. | Median, wide | $<13{ }^{\prime}$ | Yes | Good tree | Workable | x |
| 136 | Union | median | Flowering cherry | 6 | 3 | Poor | Trunk wounds; dieback. | Median, wide | <13' | No | Poor tree | Workable | x |
| 137 | Union | median | Flowering cherry | 7 | 1 | Poor | All but dead. | Median, wide | $<13 '$ | No | Poor tree | Workable | X-poor cond |

NOTE
In Alternative 4, all trees to remain can be pruned successfully to clear the OCS. Trees \#112 \& \#137 should be removed due to poor condition.

## TREE REPLACEMENT ESTIMATES BY BLOCK

## Van Ness Corridor BRT Project

BMS Design Group with Hortscience, November 2, 2012
Updated by SFCTA, April 5, 2013

Median Trees

| LPA | \# Trees to Remain | \# Trees Replaced | Total |
| :---: | :---: | :---: | :---: |
| Block 1: Mission-Market |  |  | 0 |
| Block 2: Market-Fell |  |  | 0 |
| Block 3: Fell-Hayes |  | 10 | 10 |
| Block 4: Hayes-Grove | 2 | 7 | 9 |
| Block 5: Grove-McAllister* | 2 | 6 | 8 |
| Block 6: McAllister-Golden Gate |  |  | 0 |
| Block 7: Golden Gate-Turk | 1 | 9 | 10 |
| Block 8: Turk-Eddy |  |  | 0 |
| Block 9: Eddy-Ellis |  |  | 0 |
| Block 10: Ellis-O'Farrell | 2 | 4 | 6 |
| Block 11: O'Farrell-Geary** |  |  | 0 |
| Block 12: Geary-Post |  | 2 | 2 |
| Block 13: Post-Sutter | 2 | 5 | 7 |
| Block 14: Sutter-Bush |  |  | 0 |
| Block 15: Bush-Pine |  | 10 | 10 |
| Block 16: Pine-California | 1 | 3 | 4 |
| Block 17: California-Sacramento |  | 10 | 10 |
| Block 18: Sacramento-Clay |  |  | 0 |
| Block 19: Clay-Washington |  | 8 | 8 |
| Block 20: Washington-Jackson | 1 | 9 | 10 |
| Block 21: Jackson-Pacific |  |  | 0 |
| Block 22: Pacific-Broadway |  | 2 | 2 |
| Block 23: Broadway-Vallejo |  |  | 0 |
| Block 24: Vallejo-Green |  |  | 0 |
| Block 25: Green-Union |  |  | 0 |
| Block 26: Union-Filbert |  | 1 | 1 |
| Block 27: Filbert-Greenwich | 1 | 9 | 10 |
| Block 28: Greenwich-Lombard |  |  | 0 |
| TOTAL EXISTING TREES | 12 | 95 | 107 |

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## TREE REPLACEMENT ESTIMATES BY BLOCK

## Van Ness Corridor BRT Project

BMS Design Group with Hortscience, November 2, 2012
Updated by SFCTA, April 5, 2013
Median Trees

|  | \# Trees to Remain | \# Trees Replaced | Total |
| :---: | :---: | :---: | :---: |
| ALTERNATIVE 2 |  |  |  |
| Block 1: Mission-Market |  |  | 0 |
| Block 2: Market-Fell |  | 13 | 13 |
| Block 3: Fell-Hayes |  |  | 0 |
| Block 4: Hayes-Grove | 2 |  | 2 |
| Block 5: Grove-McAllister* | 6 | 2 | 8 |
| Block 6: McAllister-Golden Gate | 3 | 6 | 9 |
| Block 7: Golden Gate-Turk | 6 |  | 6 |
| Block 8: Turk-Eddy | 4 | 1 | 5 |
| Block 9: Eddy-Ellis | 1 | 9 | 10 |
| Block 10: Ellis-O'Farrell | 4 | 3 | 7 |
| Block 11: O'Farrell-Geary** | 1 | 9 | 10 |
| Block 12: Geary-Post | 2 | 7 | 9 |
| Block 13: Post-Sutter | 3 | 4 | 7 |
| Block 14: Sutter-Bush | 4 | 2 | 6 |
| Block 15: Bush-Pine | 6 |  | 6 |
| Block 16: Pine-California | 4 | 1 | 5 |
| Block 17: California-Sacramento |  | 10 | 10 |
| Block 18: Sacramento-Clay | 6 |  | 6 |
| Block 19: Clay-Washington | 2 | 6 | 8 |
| Block 20: Washington-Jackson | 1 | 9 | 10 |
| Block 21: Jackson-Pacific | 2 | 6 | 8 |
| Block 22: Pacific-Broadway | 5 | 1 | 6 |
| Block 23: Broadway-Vallejo | 6 |  | 6 |
| Block 24: Vallejo-Green | 3 | 6 | 9 |
| Block 25: Green-Union | 4 |  | 4 |
| Block 26: Union-Filbert | 6 |  | 6 |
| Block 27: Filbert-Greenwich | 1 | 8 | 9 |
| Block 28: Greenwich-Lombard |  |  | 0 |
| TOTAL EXISTING TREES | 82 | 103 | 185 |

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## TREE REPLACEMENT ESTIMATES BY BLOCK

## Van Ness Corridor BRT Project

BMS Design Group with Hortscience, November 2, 2012
Updated by SFCTA, April 5, 2013
Median Trees

| ALTERNATIVE 3 | \# Trees to Remain | \# Trees Replaced | Total |
| :---: | :---: | :---: | :---: |
|  |  | West East |  |
| Block 1: Mission-Market |  |  | 0 |
| Block 2: Market-Fell |  | 6 | 6 |
| Block 3: Fell-Hayes |  |  | 0 |
| Block 4: Hayes-Grove |  | 6 | 6 |
| Block 5: Grove-McAllister* |  | 17 | 17 |
| Block 6: McAllister-Golden Gate |  | 10 | 10 |
| Block 7: Golden Gate-Turk |  |  | 0 |
| Block 8: Turk-Eddy |  | 10 | 10 |
| Block 9: Eddy-Ellis |  | 4 | 4 |
| Block 10: Ellis-O'Farrell |  | 10 | 10 |
| Block 11: O'Farrell-Geary** |  |  | 0 |
| Block 12: Geary-Post |  | 10 | 10 |
| Block 13: Post-Sutter |  | 10 | 10 |
| Block 14: Sutter-Bush |  | 4 | 4 |
| Block 15: Bush-Pine |  |  | 0 |
| Block 16: Pine-California |  | 10 | 10 |
| Block 17: California-Sacramento |  | 4 | 4 |
| Block 18: Sacramento-Clay |  | 4 | 4 |
| Block 19: Clay-Washington |  | 10 | 10 |
| Block 20: Washington-Jackson |  | 10 | 10 |
| Block 21: Jackson-Pacific |  | 43 | 7 |
| Block 22: Pacific-Broadway |  | 10 | 10 |
| Block 23: Broadway-Vallejo |  | 10 | 10 |
| Block 24: Vallejo-Green |  | 4 | 4 |
| Block 25: Green-Union |  | 4 | 4 |
| Block 26: Union-Filbert |  | 3 | 3 |
| Block 27: Filbert-Greenwich |  |  | 0 |
| Block 28: Greenwich-Lombard |  |  | 0 |
| TOTAL EXISTING TREES | 0 | $39 \quad 124$ | 163 |

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## TREE REPLACEMENT ESTIMATES BY BLOCK

## Van Ness Corridor BRT Project

BMS Design Group with Hortscience, November 2, 2012
Updated by SFCTA, April 5, 2013
Median Trees

| ALTERNATIVE 4 | \# Trees to Remain | \# Trees Replaced | Total |
| :---: | :---: | :---: | :---: |
| Block 1: Mission-Market |  |  | 0 |
| Block 2: Market-Fell |  | 7 | 7 |
| Block 3: Fell-Hayes |  |  | 0 |
| Block 4: Hayes-Grove |  |  | 0 |
| Block 5: Grove-McAllister* | 4 | 6 | 10 |
| Block 6: McAllister-Golden Gate | 3 | 6 | 9 |
| Block 7: Golden Gate-Turk | 1 | 9 | 10 |
| Block 8: Turk-Eddy | 1 | 1 | 2 |
| Block 9: Eddy-Ellis | 0 | 10 | 10 |
| Block 10: Ellis-O'Farrell | 4 | 3 | 7 |
| Block 11: O'Farrell-Geary** |  |  | 0 |
| Block 12: Geary-Post | 2 | 7 | 9 |
| Block 13: Post-Sutter | 0 | 4 | 4 |
| Block 14: Sutter-Bush | 2 | 1 | 3 |
| Block 15: Bush-Pine | 1 | 9 | 10 |
| Block 16: Pine-California | 4 | 2 | 6 |
| Block 17: California-Sacramento |  | 4 | 4 |
| Block 18: Sacramento-Clay | 2 | 0 | 2 |
| Block 19: Clay-Washington | 2 | 6 | 8 |
| Block 20: Washington-Jackson | 1 | 9 | 10 |
| Block 21: Jackson-Pacific |  |  | 0 |
| Block 22: Pacific-Broadway | 4 | 1 | 5 |
| Block 23: Broadway-Vallejo |  | 10 | 10 |
| Block 24: Vallejo-Green | 3 | 6 | 9 |
| Block 25: Green-Union | 1 | 3 | 4 |
| Block 26: Union-Filbert | 2 | 0 | 2 |
| Block 27: Filbert-Greenwich | 1 | 9 | 10 |
| Block 28: Greenwich-Lombard |  |  | 0 |
| TOTAL EXISTING TREES | 38 | 113 | 151 |



| LPA - BLOCK WITHOUT BRT STATION | VAN NESS AVENUE |  |  |
| :---: | :---: | :---: | :---: |
| Center Lane BRT with Right-Side Boarding and Single Median | BUS RAPID TRANSIT STUDY SANFRANCISCO, CALIFORNIA |  |  |






Fobruay 12,2009





Fobtuay 12.2009

ALTERNATIVE 3B-LOWTREES
CENTER LANE BRT WITH SIDE LOADING PLATFORMS LANDSCAPE CROSS SECTION



Reduced Scale: 1 inch = 10 feet


Febvary 12.2009

Alternative 4C - Low Trees
Center Lane brt with Center Loading Platforms LANDSCAPE CROSS SECTION


[^0]:    Notes
    1: Sidewalk tree counts are from BMS Design Group tree inventory in July, 2009. All Median tree counts are from Hortscience tree survey from July, 2012.
    2: $\mathrm{N} / \mathrm{A}$ (Not/Available): Detailed information about sidewalk trees is only available for the 38 sidewalk trees to be removed in Alternative 2.
    3: Trees to remain are those that are not affected by direct construction and are in suitable condition for preservation.

