



**APPENDIX G**  
**TREE INVENTORY**

Memorial City Redevelopment Authority  
Kimberley Roadway & Drainage Improvements

Preliminary Tree Inventory-Findings  
and Recommendations



**C.N. Koehl**   
Urban Forestry, Inc. 

Tree numbers and locations included on attached redline of plan and profile drawings.

Tree no. 1

2" Savannah Holly that can be preserved in place with Zero Curb Cutback method of street construction. Cost of Zero Curb Cutback relative to cost of removal and replacement of tree does not warrant protection. Additionally, the tree is not in the best of condition. Recommend tree be removed and 2" in replacement planting provided to comply with City of Houston Street Tree Ordinance.

Tree no. 2

10" Water Oak located on private property. Tree was previously impacted by construction of new parking lot and sidewalk. Keep sidewalk immediately back of curb, or no closer to tree than existing 4' sidewalk, to avoid additional tree impact.

Trees no. 3 & 7

(2) 10" Japanese Blueberry trees on private property. Canopy of tree will need to be pruned to provide clearance for proposed sidewalk construction. Keep sidewalk immediately back of curb to minimize impact on tree and reduce the amount of foliage that will need to be removed adjacent to dining patio at Escalante Mexican Restaurant. A short retaining wall will most likely be needed to minimize grade layback and tree impact to meet elevation of new sidewalk.



Figure 1: Yellow tape measure indicates 5' sidewalk location immediately back of curb

Trees no. 4, 5, & 6

(3) 3' tall Sago Palm trees in street right of way. Not protected by City of Houston Street Tree Ordinance. The trees will need to be significantly pruned or removed to provide clearance for new sidewalk to meet TAS requirements.

Trees no. 8 & 9

(2) 6" Crepe Myrtle trees in street right of way. Not protected by street tree ordinance. The trees will need to be significantly pruned or removed to provide clearance for new sidewalk to meet TAS requirements. Traffic engineers need to closely evaluate the tree locations for site distances at the driveway. It may be necessary to remove the trees for traffic safety.



Figure 2: Tree no.9 at drive way at Escalante Restaurant

Tree no. 10

8" Crepe Myrtle located on private property. Will not be impacted by construction.

Trees no. 11 & 12

7" Chinese Pistache and 11" Chinese Pistache growing in street right of way. Both trees will need to be removed to install sidewalk along north side of street. 18" in replacement planting will be required to comply with City of Houston Street Tree Ordinance.



Figure 3: Yellow tape measure indicates location of 5' sidewalk immediately back of curb at tree 12.

Trees no. 13 & 14

13" Post Oak and 27" Post Oak growing on private property. Both trees were significantly impacted by construction of parking lot. Both trees have twig dieback and thin canopies. Elevation drops approximately 18-24" from 5' back of curb down to top of existing curb. A retaining wall will be necessary at edge of proposed sidewalk to minimize tree impact from grading.

Tree no. 15

13" Post Oak that appears to be on the limits of right of way. Could not determine if more than 50% of the base of the tree is in the street right of way. Excavation for proposed sidewalk will significantly impact long term tree survival and structural integrity. Recommend coordinating tree removal and replacement with owner

of adjoining private property. Removal of tree will require 13" in replacement planting to comply with City of Houston Street Tree Ordinance.



Figure 4: Yellow tape measure indicates location of sidewalk 5' back of curb at tree 15.

Tree no. 16

13" Post Oak on private property and in very poor condition. Construction of the adjacent parking lot significantly impacted the tree and more than 70% of the total canopy has been removed. The base of trunk has been repeatedly hit by cars parking in the adjacent parking space, causing wounds and decay. The condition of the tree does not warrant tree protection.



Figure 5: Tree 16 with 70% of canopy removed.

Tree no. 17

25" Post Oak growing on private property. The tree was significantly impacted by construction of parking lot. The tree has twig dieback and a thin canopy. Elevation drops approximately 18-24" from 5' back of curb down to top of existing curb. A retaining wall will be necessary at edge of proposed sidewalk to minimize tree impact from grading.

Tree no. 18

40' tall Palm tree on private property. Will not be impacted by construction.

Tree no. 19

27" Post Oak on private property. The tree has been significantly impacted by construction of sidewalks and associated retaining walls. The canopy of the tree has approximately 25-30% dieback and is in overall poor condition. Construction of the retaining walls did not consider the biological needs of a tree this large. The remaining grow space is not adequate to support the tree. The tree will continue to decline over the next 5 years or so. Proposed construction in the street right of way will not impact the tree, provided the area behind existing retaining wall is not disturbed.

Tree no. 20

17" Sycamore in street right of way along Town and County Boulevard. The top of the tree has been knocked out by wind, or has been removed for some other reason in the past. The existing plan and profile drawings do not indicate construction adjacent to the tree. Tree can be preserved in place. Tree protection fencing will be required to comply with City of Houston Street Tree Ordinance.

Tree no. 21

One of six 10" Crepe Myrtles growing in esplanade of Town and Country Boulevard. Trees are not protected by City of Houston Street Tree Ordinance. We recommend the trees be protected with tree protection fence during construction to ensure long term survival and maintain the existing tree lined boulevard.

Tree no. 22

13" Nuttall Oak in street right of way along Town and Country Boulevard. The tree is protected by the City of Houston Street Tree Ordinance. Zero Curb Cutback method of street construction, tree protection fencing, and raising of canopy will be necessary to protect the tree in place.



Trees no. 23 & 24

22" Post Oak and 19" Post Oak in street right of way on north east corner of Town and Country and Kimberley. Both trees are protected by City of Houston Street Tree Ordinance. Elevation at base of tree is approximately 20-24 inches higher than elevation at top of curb. Construction of proposed wheel chair ramp and sidewalk stub out adjacent to trees will require removal of the trees and 41" in replacement planting. The trees can be preserved in place if the proposed sidewalk is maintained immediately back of curb around the radius to the proposed storm inlet. The top of inlet would need to be incorporated into the proposed sidewalk.



Figure 6: Location of trees 23 & 24 relative to back of curb.

Trees no. 25 & 26

14" Post Oak and 21" Post Oak on private property. The trees have been significantly impacted by construction of sidewalks and associated retaining walls. The canopy of the trees has approximately 30-35% dieback and is in overall poor condition. Construction of the retaining walls did not consider the biological needs of trees this large. The trees will continue to decline over the next 5 years or so. Proposed construction in the street right of way will not impact the trees, provided the area behind existing retaining wall is not disturbed.

Trees no. 27 & 28

11" Chinese Pistache and 13" Chinese Pistache growing in street right of way. Both trees are protected by City of Houston Street Tree Ordinance. Elevation at base of each tree is approximately 30" higher than elevation of driveway approximately 10-12' from tree. In order to install ADA compliant sloped sidewalks, approximately 18-24" of excavation will be required right at the base of each tree. The trees will need to be removed and 24" in replacement planting provided to comply with Street Tree Ordinance.



Figure 7: Elevation change at tree 27 relative to 12" tall portfolio.



Figure 8: Elevation change at tree 28 relative to 12" tall portfolio.

Tree no. 29

5" Hibiscus growing in street right of way. Not protected by Street Tree Ordinance. The shrub will need to be significantly pruned or removed to provide clearance for new sidewalk to meet TAS requirements. Traffic engineers need to closely evaluate the shrub location for site distances at the drive way. It may be necessary to remove the shrub for traffic safety.

Trees 30, 31, & 32

10", 10", & 12" Chinese Pistache on private property. Trees will be protected with root pruning for sidewalk and tree protection fencing during construction.

Tree no. 33 & 35

8" Nuttal Oak and 10" Nuttal Oak growing along Town and County Boulevard in private parking area. Trees are not protected by Street Tree Ordinance. We recommend the trees be protected with tree protection fence during construction to ensure long term survival and maintain the existing tree lined boulevard. The canopy of the trees will need to be raised to allow construction access and protect the trees.

Tree no. 34

40' Palm in esplanade of Town and Country Boulevard, not protected by Street Tree Ordinance. Tree should not be impacted by construction. We recommend the tree be protected with tree protection fencing during construction.

Trees no. 36

20' Palm trees growing on private property. Will not be impacted by construction in right of way.

Trees no. 37-42

10" Chinese Pistache growing on private property and not protected by Street Tree Ordinance. Trees will be protected with root pruning for sidewalk and tree protection fencing during construction.

Tree no. 43

19" Pine on private property. The tree is approximate 3-5' from existing 4' wide sidewalk. In order to avoid jeopardizing the tree's structural integrity we recommend matching the location and elevation of the existing sidewalk adjacent to the tree. The tree is growing adjacent to an overhead power line and most of the north side of the canopy has been removed by utility pruning. Trees are structurally supported with tension between soil and roots. Cutting roots on the north side of the tree will jeopardize structural integrity considering most of the weight of the canopy is already leaning toward the south. Zero curb cutback will also be needed to avoid cutting structural roots which would create a liability concern for the Authority.



Figure 9: Southward leaning canopy of tree no. 43.

Trees 44-47

15", 17", 16", & 13" Pine trees on private property. The trees are approximately 6-8' from existing 4' wide sidewalk. In order to avoid jeopardizing the trees' structural integrity we recommend matching the location and elevation of the existing sidewalk adjacent to the trees. The trees are growing adjacent to an overhead power line and most of the north side of each trees' canopy has been removed by utility pruning. Root pruning will be needed to minimize impact from road way construction.

Tree no. 48

22" Pine tree on private property. The tree is growing adjacent to an overhead power line and part of the south side of the canopy has been removed by utility pruning. Root pruning and tree protection fencing will be used to minimize impacts from construction of waterline and sidewalk.

Tree no. 49

8" Live Oak on private property. The tree will not be impacted by construction in right of way.

Tree no. 50

19" Willow Oak on Spring Branch ISD property. The tree is in very poor condition with a large cavity on the south side of trunk. The cavity has significant decay that has compromised the tree's structural integrity. The school district should be made aware of the existing liability so that the tree can be removed prior to property damage or personal injury when the tree fails.



Figure 10: Decay in trunk of tree 50

Tree no. 51

35" Post Oak growing on right of way line. Could not determine if more than 50% of the base of the tree is in the street right of way. Existing sidewalk appears to be on school property. Attempting to install ADA compliant slope wheel chair ramp between tree and street will more than likely require removal of tree and 35" in replacement planting. The proposed 6" waterline will need to be bored, Zero curb cutback street construction, tree protection fencing, canopy pruning, and root stimulation will be needed to preserve the tree during construction.



Figure 11: Yellow tape measure indicates 5' back of curb for sidewalk construction.

Trees no. 52, 53, & 54

22" Post Oak, 20" Post Oak, 28" Post Oak on school property. Existing sidewalk appears to be on school property. Installing new sidewalk between tree and street would need to be completed without cutting or otherwise damaging tree roots 1" diameter or larger. The proposed 6" waterline will need to be bored, Zero curb cutback street construction, tree protection fencing, canopy pruning, and root stimulation will be needed to preserve the trees during construction.



Figure 12: Location of tree 54 relative to back of curb.

Trees no. 55 & 56

24" and 26" Live Oak on Spring Branch ISD property. The trees will be protected during construction with root pruning, tree protection fencing, and canopy pruning for proposed waterline and sidewalk.

Trees no. 57, 58, and 59

3" Chinese Pistache, 5" Live Oak, and 4" Live Oak on Spring Branch ISD property. Will not be impacted by construction in street right of way.

Trees no. 60, 61, & 62

25" Post Oak, 23" Post Oak, & 21" Post Oak trees on private property. The trees are approximately 8-12' from existing 4' wide sidewalk. In order to avoid jeopardizing the trees' structural integrity we recommend matching the location and elevation of the existing sidewalk adjacent to the trees. The trees are growing adjacent to an overhead power line and most of the north side of each trees' canopy has been removed by utility pruning. Root pruning will be needed to minimize impact from road way construction.

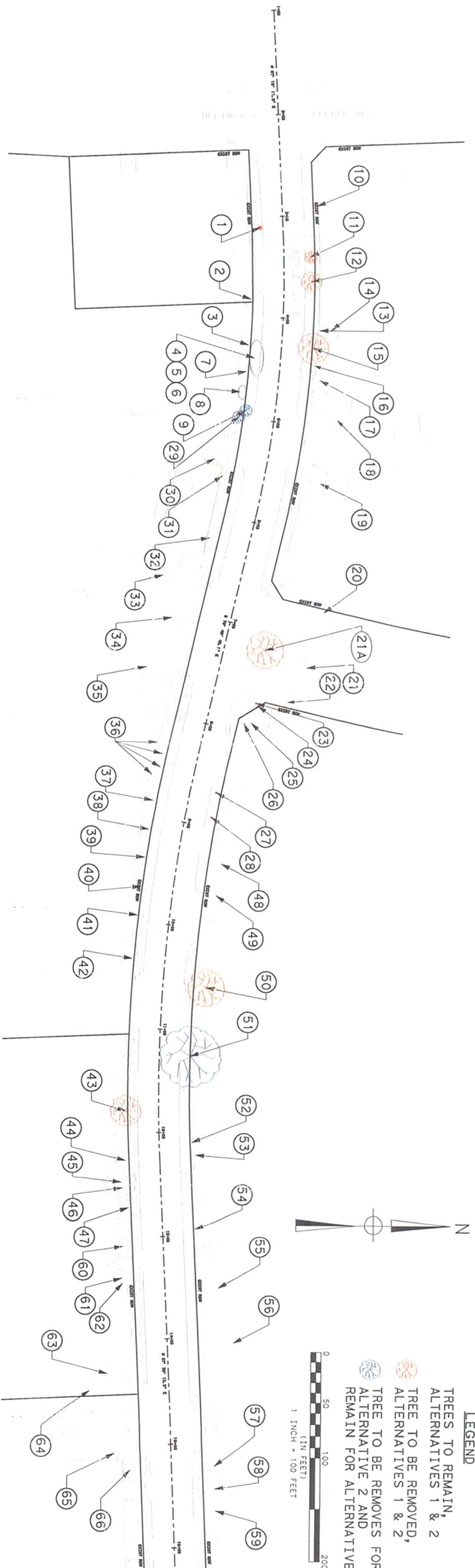
Trees no. 63 & 64

16" Pine & 38" Cedar on private property. The trees will not be impacted by construction in street right of way.

Trees no. 65 & 66

11" & 10" Bradford Pear on private property. The trees will not be impacted by construction in street right of way.





**LEGEND**

- TREES TO REMAIN, ALTERNATIVES 1 & 2
- TREE TO BE REMOVED, ALTERNATIVES 1 & 2
- TREE TO BE REMOVED FOR ALTERNATIVE 2 AND REMAIN FOR ALTERNATIVE 1

0 50 100 200  
(IN FEET)  
1 INCH = 100 FEET

TREE NUM.	TREE TYPE	ROADWAY ALTERNATIVE 1	ROADWAY ALTERNATIVE 2
1	2" SAVANNAH HOLLY	REMOVE	REMOVE
2	10" WATER OAK	FENCING	FENCING
3	10" JAPANESE BLUEBERRY	PRUNE	PRUNE
4	3" TALL SAGO PALM	PRUNE	PRUNE
5	3" TALL SAGO PALM	PRUNE	PRUNE
6	3" TALL SAGO PALM	PRUNE	PRUNE
7	10" JAPANESE BLUEBERRY	PRUNE	PRUNE
8	6" GREPE MYRTLE	PRUNE	PRUNE
9	6" GREPE MYRTLE	PRUNE	PRUNE
10	8" CREPE MYRTLE	PRUNE	PRUNE
11	7" CHINESE PISTACHE	REMOVE	REMOVE
12	13" POST OAK	REMOVE	REMOVE
13	13" POST OAK	RETAINING WALL	RETAINING WALL
14	27" POST OAK	RETAINING WALL	RETAINING WALL
15	13" POST OAK	REMOVE	REMOVE
16	13" POST OAK	RETAINING WALL	RETAINING WALL
17	25" POST OAK	RETAINING WALL	RETAINING WALL
18	40' TALL PALM	RETAINING WALL	RETAINING WALL
19	27" POST OAK	RETAINING WALL	RETAINING WALL
20	17" STYCAMORE	PROTECTION FENCING	PROTECTION FENCING
21	6" - 10" CREPE MYRTLES	PROTECTION FENCING	PROTECTION FENCING
21A	17" LIVE OAK	REMOVE	REMOVE
22	13" NUTTAL OAK	PROTECTION FENCING, ZERO CURB CUT	PROTECTION FENCING, ZERO CURB CUT
23	23" POST OAK	REMOVE IF NEW SIDEWALKS	REMOVE IF NEW SIDEWALKS
24	19" POST OAK	REMOVE IF NEW SIDEWALKS	REMOVE IF NEW SIDEWALKS
25	14" POST OAK	REMOVE IF NEW SIDEWALKS	REMOVE IF NEW SIDEWALKS
26	21" POST OAK	REMOVE	REMOVE
27	11" CHINESE PISTACHE	REMOVE	REMOVE
28	13" CHINESE PISTACHE	REMOVE	REMOVE
29	5" HIBISCUS	PRUNE	PRUNE
30	10" CHINESE PISTACHE	PRUNE, FENCING	PRUNE, FENCING
31	10" CHINESE PISTACHE	PRUNE, FENCING	PRUNE, FENCING
32	12" CHINESE PISTACHE	PRUNE, FENCING	PRUNE, FENCING
33	8" NUTTAL OAK	PROTECTION FENCING	PROTECTION FENCING
34	40' TALL PALM	PROTECTION FENCING	PROTECTION FENCING
35	10" NUTTAL OAK	PROTECTION FENCING	PROTECTION FENCING
36	20' TALL PALM	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING
37	10" CHINESE PISTACHE	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING
38	10" CHINESE PISTACHE	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING
39	10" CHINESE PISTACHE	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING

TREE NUM.	TREE TYPE	ROADWAY ALTERNATIVE 1	ROADWAY ALTERNATIVE 2
40	10" CHINESE PISTACHE	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING
41	10" CHINESE PISTACHE	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING
42	10" CHINESE PISTACHE	ROOT PRUNING, FENCING	ROOT PRUNING, FENCING
43	19" PINE	FENCING, ZERO CURB CUT	CONCERN ABOUT COMPROMISING STRUCTURE OF TREE - PRIVATE
44	15" PINE	ROOT PRUNING	ROOT PRUNING, ZERO CURB CUT
45	17" PINE	ROOT PRUNING	ROOT PRUNING, ZERO CURB CUT
46	16" PINE	ROOT PRUNING	ROOT PRUNING, ZERO CURB CUT
47	13" PINE	ROOT PRUNING	ROOT PRUNING, ZERO CURB CUT
48	22" PINE	ROOT PRUNING	ROOT PRUNING, ZERO CURB CUT
49	8" LIVE OAK	REMOVE - BY SBISD	REMOVE - BY SBISD
50	19" WILLOW OAK	REMOVE	REMOVE
51	35" POST OAK	PRUNE, FENCING, ROOT STIM.	PRUNE, FENCING, ROOT STIM., ZERO CURB CUT
52	22" POST OAK	PRUNE, FENCING, ROOT STIM.	PRUNE, FENCING, ROOT STIM., ZERO CURB CUT
53	20" POST OAK	PRUNE, FENCING, ROOT STIM.	PRUNE, FENCING, ROOT STIM., ZERO CURB CUT
54	28" POST OAK	PRUNE, FENCING, ROOT STIM.	PRUNE, FENCING, ROOT STIM., ZERO CURB CUT
55	24" LIVE OAK	PRUNE, FENCING	PRUNE, FENCING
56	26" LIVE OAK	PRUNE, FENCING	PRUNE, FENCING
57	3" CHINESE PISTACHE	PRUNE, FENCING	PRUNE, FENCING
58	5" LIVE OAK	PRUNE, FENCING	PRUNE, FENCING
59	4" LIVE OAK	PRUNE, FENCING	PRUNE, FENCING
60	25" POST OAK	ROOT PRUNING	ROOT PRUNING
61	23" POST OAK	ROOT PRUNING	ROOT PRUNING
62	21" POST OAK	ROOT PRUNING	ROOT PRUNING
63	16" PINE	ROOT PRUNING	ROOT PRUNING
64	38" CEDAR	ROOT PRUNING	ROOT PRUNING
65	11" BRADFORD PEAR	ROOT PRUNING	ROOT PRUNING
66	10" BRADFORD PEAR	ROOT PRUNING	ROOT PRUNING

REV	DATE	DESCRIPTION	ADD	AND	CR	BY	ENG	CHK	APP

**IGN & Newman, Inc.**  
Lockwood, Andrews & Newman, Inc.  
1110 N. STATE STREET  
ANN ARBOR, MI 48106

**DESIGN SPEED: 30MPH**

**DRAFT**

APPENDIX G.2  
KIMBERLEY ROAD  
TREE EXHIBIT

DATE: 2/25/2010  
DESIGNED BY: T.G.G.  
CHECKED BY: T.G.G.  
DATE: 2/25/2010

SCALE: AS SHOWN