TAG #	DBH	TDUs	SPECIES	CONDITION	NOTES
1601	18	3.6	Red Maple	Good	Few dead limbs
1602	21	4.8	Red Maple	Fair	Weak stem union at approximately 15' with included bark, asymmetrical canopy, few dead limbs
1603	22	5.2	Red Maple	Fair	Co-dominant at approximately 6' with weak stem union and included bark, few pruning wounds with decay, few dead limbs, with fungal fruiting bodies, asymmetrical canopy
1604	29	9.2	Red Maple	Fair	Mechanical damage to exposed roots, multi-stem union at approximately 5', few dead limbs
1605	21	4.8	Red Maple	Fair	Few pruning wounds, few dead limbs
1606	19	4	Red Maple	Fair	Slight lean, few dead limbs, weak stem union at approximately 5' with included bark, callousedbasal wound at approximately 6'
1607	14,11	2.2	Deodar Cedar	Fair	Co-dominant at root crown, few dead limbs, asymmetrical canopy
1608	29	9.2	Water Oak	Fair	Girdling roots, co-dominant at approximately 25' with weak stem union and included bark, severe epicormic sprouts, significant tip dieback
1609	25	6.8	Water Oak	Fair	Few large dead limbs with fungal fruiting bodies, severe epicormic sprouts, significant tip dieback
1610	25	6.8	Water Oak	Fair	Few large dead limbs with fungal fruiting bodies, severe epicormic sprouts, significant tip dieback
1611	28	8.6	Water Oak	Fair	Few large dead limbs with fungal fruiting bodies, epicormic sprouts, significant tip dieback
1612	16	2.8	Deodar Cedar	Fair	Sweep in trunk, few dead limbs
1613	10,10	1.3	Cryptomeria	Fair	Co-dominant at approximately 4', asymmetrical canopy, few dead limbs
1614	13,10,9	1.8	Cryptomeria	Fair	Multi-stem union at approximately 4', asymmetrical canopy, few dead limbs
1615	31,11	10.4	Cryptomeria	Fair	Co-dominant at approximately 4', asymmetrical canopy, few dead limbs
1616	17	3.2	Cryptomeria	Fair	Multiple weak stem unions at approximately 3', asymmetrical canopy, few dead limbs
1617	13,11,10	1.8	Cryptomeria	Fair	Tri-stem union at approximately 4', asymmetrical canopy, few dead limbs
1618	18	3.6	Cryptomeria	Good	Few dead limbs
1619	26	14.8	Tulip Poplar	Fair	Few pruning wounds, asymmetrical canopy, pruned back for building clearance
1620	15	2.4	Red Maple	Fair	Slight lean, few pruning wounds, few dead limbs, tri-stem union at approximately 5'
1621	14,13	2.2	Red Maple	Fair	Co-dominant at approximately 4' with weak stem union and included bark, few dead limbs, thinning canopy
1622	10	1.3	Red Maple	Poor	Limited critical root zone, multiple pruning wounds, suppressed canopy, thin canopy
1623	13	1.8	Red Maple	Fair	Limited critical root zone, slight lean, weak stem union at approximately 6', co-dominant at approximately 10'
1624	15	2.4	Red Maple	Poor	Limited critical root zone, large basal wound with decay from root crown to approximately 5', suppressed canopy, significant tip dieback
1625	20	4.4	Red Maple	Fair	Weak stem union at approximately 5', tri-stem union at approximately 8', epicormic sprouts, significant tip dieback
1626	20	4.4	Red Maple	Fair	Weak stem union at approximately 10', few dead limbs, slight lean
1627	15	2.4	Red Maple	Fair	Limited critical root zone, few pruning wounds, thinning canopy
1628	14	2.2	Red Maple	Poor	Limited critical root zone, large basal wound with decay from root crown to approximately 3', signs of chlorosis, multiple large dead limbs, significant tip dieback
1629	14	2.2	Red Maple	Fair	Slight lean, multiple dead limbs, thinning canopy
1630	12,10,7	1.6	Crepe Myrtle	Good	Tri-stem union at root crown, pruned for building clearance
1631	5,5,3	0.7	Crepe Myrtle	Poor	Limited critical root zone, tri-stem union at root crown, thin canopy, few dead limbs
1632	4,3	0.6	Crepe Myrtle	Poor	Limited critical root zone, co-dominant at root crown, thin canopy, few dead limbs
1633	4,3,3,3	0.6	Crepe Myrtle	Poor	Limited critical root zone, co-dominant at root crown, basal wound at approximately 2', thin canopy
1634	4,4,3	0.6	Crepe Myrtle	Poor	Limited critical root zone, tri-stem union at root crown, thin canopy
1635	6,6,8	0.9	Crepe Myrtle	Good	Tri-stem union at approximately 1', pruned for building clearance
1636	20	4.4	Red Maple	Fair	Few pruning wounds, asymmetrical canopy, phototropic lean
1637	19	4	Red Maple	Fair	Few pruning wounds, asymmetrical canopy, co-dominant at approximately 18', phototropic lean
1638	5	0.7	Dogwood	Poor	Severe epicormic sprouts, multiple dead limbs
1639	4	0.6	Dogwood	Poor	Severe epicormic sprouts, multiple dead limbs
1640	17	3.2	Beech Tree	Good	Few pruning wounds, asymmetrical canopy, signs of bacterial wetwood
1641	4,3	0.6	Dogwood	Good	Co-dominant at approximately 1', few dead limbs
1642	16	2.8	Tulip Poplar	Poor	Few pruning wounds, asymmetrical canopy, top of main lead is dead
1643	18	3.6	Tulip Poplar	Fair	Few pruning wounds, epicormic sprouts, asymmetrical canopy
1644	3,3,3,2	0.5	Crepe Myrtle	Fair	Basal wound with decay at approximately 1', tri-stem union at approximately 3', pruned back to approximately 5'
1645	9	1.2	Red Maple	Poor	Limited critical root zone, co-dominant at approximately 8', top is dead
1646	16	2.8	Red Maple	Fair	Limited critical root zone, few pruning wounds, epicormic sprouts
1647	8	1.1	Red Maple	Poor	Limited critical root zone, pruning wound with decay at approximately 3', thin canopy, multiple dead limbs
1648	12	1.6	Red Maple	Fair	Limited critical root zone, suppressed canopy, multiple dead limbs
1649	8,6,5,5	1.1	Holly	Fair	Multi-stem union at approximately 1', few pruning wounds with decay
1650	6,6,5,4,	0.9	Holly	Fair	Multi-stem union at approximately 1', few pruning wounds with decay
1651	8,6	1.1	Holly	Fair	Co-dominant at approximately 1', few pruning wounds with decay
1652	9	1.2	Holly	Fair	Basal wound with decay from approximately 1' to approximately 3', few pruning wounds
1653	10,9,8,7	1.3	Holly	Fair	Multi-stem union at approximately 2', few pruning wounds with decay, epicormic sprouts
1654	12	1.6	Deodar Cedar	Good	Few dead limbs, asymmetrical canopy
1655	12	1.6	Loblolly Pine	Good	Few dead limbs, asymmetrical canopy
1656	9	1.2	Deodar Cedar	Fair	Co-dominant at approximately 6', asymmetrical canopy, multiple dead limbs
1657	17	3.2	Cryptomeria	Good	Few dead limbs, included nylon straps
1658	28	8.6	Red Maple	Fair	Few pruning wounds, slight lean, co-dominant at approximately 25' with included bark
1659	22	5.2	Water Oak	Fair	Few pruning wounds, co-dominant at approximately 35' with weak stem union and included bark, epicormic sprouts
1660	28	8.6	Red Maple	Fair	Few pruning wounds, weak stem union at approximately 6', co-dominant at approximately 15', asymmetrical canopy, pruned for building clearance
1661	15	2.4	Red Maple	Good	Few pruning wounds,
1662	15	2.4	Red Maple	Fair	Multiple pruning wounds, co-dominant at approximately 10' with weak stem union and included bark, thinning canopy
1663	15	2.4	Virginia Pine	Fair	Asymmetrical canopy, few dead limbs
1664	11	1.4	White Oak	Fair	Phototropic lean, few dead limbs, asymmetrical canopy
1665	18	3.6	White Oak	Fair	Slight lean, epicormic sprouts, few dead limbs, asymmetrical canopy
1666	8	1.1	Sweetgum	Poor	Heavy vine coverage, epicormis sprouts, main lead dead
1667	16	2.8	Virginia Pine	Fair	Moderate lean, asymmetrical canopy, few dead limbs, significant vine coverage
1668	11	1.4	Virginia Pine	Fair	Moderate phototropic lean, asymmetrical canopy, few dead limbs, weeping wounds with sap
1669	11	1.4	Virginia Pine	Fair	Moderate lean, heavy vine coverage, asymmetrical canopy, few dead limbs
1670	11	1.4	Virginia Pine	Fair	Severe phototropic lean, severe vine coverage, asymmetrical canopy, few dead limbs
1671	11	1.4	Virginia Pine	Fair	Moderate vine coverage, asymmetrical canopy, few dead limbs
1672	12	1.6	Virginia Pine	Fair	Moderate vine coverage, asymmetrical canopy, few dead limbs
1673	18	3.6	Loblolly Pine	Poor	Multiple small fusiform cankers, asymmetrical canopy, few dead limbs
1674	12	1.6	Elm	Fair	Weak stem union at approximately 5' with included bark, asymmetrical canopy, few dead limbs
1675	9	1.2	Virginia Pine	Fair	Moderate phototropic lean, asymmetrical canopy, few dead limbs
		228	TOTAL DENSITY OF TAGED TREES IN PARKING AREAS		

SPECIMEN SIZED TREES SHALL NOT BE REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE CITY ARBORIST.

SPECIMEN SIZED TREES ARE DEFINED AS FOLLOWS:

- **28” DBH HARDWOOD**
- **30” DBH SOFTWOOD**
- **12” DBH UNDERSTORY**

TREE DENSITY PLAN
Scale 1” = 60’

SCALE : 1" = 60'
0’ 30’ 60’ 120’

QTY.	CALIPER	COMMON NAME	SCIENTIFIC NAME	LOCATION
2	3"	Sugar Maple	Acer saccharum	As Shown

Test Plot 1		
DBH	SPECIES	TDU
3	Red Maple	0.5
4	Blackgum	0.6
13	Southern Red Oak	1.8
8	Southern Red Oak	1.1
9	Loblolly Pine	1.2
4	Black Cherry	0.6
4,4	Red Maple	0.6
24	Tulip Poplar	6.2
9	Sweetgum	1.2
12	Water Oak	1.6
3,3,	Red Maple	0.5
4	Sourwood	0.6
5	Sourwood	0.7
15	Loblolly Pine	2.4
8	Sourwood	1.1
32	Tulip Poplar	11.2
6	White Oak	0.9
14	Northern Red Oak	2.2
6	Sweetgum	0.9
3	Red Maple	0.5
8	White Oak	1.1
20	White Oak	4.4
18	Loblolly Pine	3.6
19	Tulip Poplar	4
20	Southern Red Oak	1.3
TOTAL DENSITY	50.8	

Test Plot 2		
DBH	SPECIES	TDU
8	Southern Red Oak	1.1
5	Sweetgum	0.7
8	Sweetgum	1.1
7	White Oak	1
15	Loblolly Pine	2.4
13	Southern Red Oak	1.8
10	Tulip Poplar	1.3
8	Loblolly Pine	1.1
15	Loblolly Pine	2.4
6	Tulip Poplar	0.9
8	Southern Red Oak	1.1
4	Sourwood	0.6
3	Sweetgum	0.5
3	Red Maple	0.5
TOTAL DENSITY	26	

TOTAL SITE AREA (ACRES) PER COUNTY GIS:	5.712
TOTAL SITE AREA (SQ.FT.):	248,814
REQUIRED TREE DENSITY UNITS (TDUs) PER ACRE:	20
SITE-WIDE REQUIRED TDUs:	114.24
TOTAL TDUs OF TREES TAGED IN PARKING AREAS:	228
TOTAL WOODED AREA ON PROPERTY (SQ.FT.):	32,231
TEST PLOT SIZE 50’ BY 50’ (SQ.FT.):	2,500
TEST PLOT 1 (50’ BY 50’, 2,500 SQ.FT.) TOTAL TDUs:	50.8
TEST PLOT 2 (50’ BY 50’, 2,500 SQ.FT.) TOTAL TDUs:	26
TOTAL TDUs OF BOTH TEST PLOTS:	76.8
AVERAGE TDUs PER 2,500 SQ.FT. OF WOODED AREA:	38.4
TOTAL TDUs WITHIN WOODED AREAS ON PROPERTY:	495.1
(EXCLUDES RETENTION POND AND EASMENT)	
QUANTITIY OF TREES TO BE REMOVED:	25
DENSITY UNITS OF TREES TO BE REMOVED:	57.3
TOTAL DENSITY POST REMOVALS:	437.8
PARKING SPACE TOTAL:	256
PARKING SPACE TO TREE RATIO:	7
TOTAL TREES REQUIRED:	36.6
TOTAL TREES WITHIN PARKING AREAS:	36
TREES BEING PLANTED:	2
TOTAL TREES IN PARKING AREAS POST PLANTING:	38

TEST PLOT DATA & TREE DENSITY CALCULATIONS

TREES & DENSITY UNITS FOR REMOVAL

TAG #	DBH	TDUs	SPECIES	CONDITION	NOTES
1619	26	14.8	Tulip Poplar	Fair	Few pruning wounds, asymmetrical canopy, pruned back for building clearance
1630	12,10,7	1.6	Crepe Myrtle	Good	Tri-stem union at root crown, pruned for building clearance
1631	5,5,3	0.7	Crepe Myrtle	Poor	Limited critical root zone, tri-stem union at root crown, thin canopy, few dead limbs
1632	4,3	0.6	Crepe Myrtle	Poor	Limited critical root zone, co-dominant at root crown, thin canopy, few dead limbs
1633	4,3,3,3	0.6	Crepe Myrtle	Poor	Limited critical root zone, co-dominant at root crown, basal wound at approximately 2', thin canopy
1634	4,4,3	0.6	Crepe Myrtle	Poor	Limited critical root zone, tri-stem union at root crown, thin canopy
1635	6,6,8	0.9	Crepe Myrtle	Good	Tri-stem union at approximately 1', pruned for building clearance
1636	20	4.4	Red Maple	Fair	Few pruning wounds, asymmetrical canopy, phototropic lean
1637	19	4	Red Maple	Fair	Few pruning wounds, asymmetrical canopy, co-dominant at approximately 18', phototropic lean
1638	5	0.7	Dogwood	Poor	Severe epicormic sprouts, multiple dead limbs
1639	4	0.6	Dogwood	Poor	Severe epicormic sprouts, multiple dead limbs
1641	4,3	0.6	Dogwood	Good	Co-dominant at approximately 1', few dead limbs
1642	16	2.8	Tulip Poplar	Poor	Few pruning wounds, asymmetrical canopy, top of main lead is dead
1643	18	3.6	Tulip Poplar	Fair	Few pruning wounds, epicormic sprouts, asymmetrical canopy
1644	3,3,3,2	0.5	Crepe Myrtle	Fair	Basal wound with decay at approximately 1', tri-stem union at approximately 3', pruned back to approximately 5'
1649	8,6,5,5	1.1	Holly	Fair	Multi-stem union at approximately 1', few pruning wounds with decay
1650	6,6,5,4,	0.9	Holly	Fair	Multi-stem union at approximately 1', few pruning wounds with decay
1651	8,6	1.1	Holly	Fair	Co-dominant at approximately 1', few pruning wounds with decay
1652	9	1.2	Holly	Fair	Basal wound with decay from approximately 1' to approximately 3', few pruning wounds
1654	12	1.6	Deodar Cedar	Good	Few dead limbs, asymmetrical canopy
1656	9	1.2	Deodar Cedar	Fair	Co-dominant at approximately 6', asymmetrical canopy, multiple dead limbs
1657	17	3.2	Cryptomeria	Good	Few dead limbs, included nylon straps
1659	22	5.2	Water Oak	Fair	Few pruning wounds, co-dominant at approximately 35' with weak stem union and included bark, epicormic sprouts
1661	15	2.4	Red Maple	Good	Few pruning wounds,
1662	15	2.4	Red Maple	Fair	Multiple pruning wounds, co-dominant at approximately 10' with weak stem union and included bark, thinning canopy
		57.3	: TOTAL DENSITY TO BE REMOVED		
25	: TOTAL TREES TO BE REMOVED				

REV	DATE	REVISION DESCRIPTION
01	10/15/18	CITY COMMENTS
02	10/29/18	CITY COMMENTS

THIS LINE ↔ IS ONE INCH LONG WHEN PLOTTED FULL SCALE

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO:

DATE: October 15, 2018

DISC. LEAD: | DESIGNER: | CHECKER:

SHEET TITLE

TREE CONSERVATION PLAN

SHEET