Source: Parks and Recreation

Agenda Item No: REP 89-13

To: City Council
From: City Manager and Staff

Council Meeting Date: Jun 17, 2013

Re: Hazardous Tree Removal Report: Columbia Cosmopolitan Recreation Area & Stephens Lake Park

EXECUTIVE SUMMARY:

The Columbia Parks & Recreation Department is requesting Council approval to remove three hazardous trees at two locations within the park system due to their current state of decline and the hazard potential for park users. The first tree that is scheduled for removal is a Pin Oak tree located in Columbia Cosmopolitan Recreation Area in the parking lot adjacent to the Harris Shelter. It qualifies as a large tree due to its 41-inch Diameter at Breast Height (DBH) and is suggested for removal due to a live crown ratio of less than 25% and an increasing amount of deadwood throughout the tree. The second tree is a Black Oak located within Stephens Lake on the east side of the amphitheater. The Oak tree has a 37-inch DBH and the tree has less than 10% living crown due to a previous lightning strike and drought stress from the summer of 2012. The final tree is a Black Walnut tree located within Stephens Lake Park in the northwest corner of the park along the hard surface trail. The Walnut tree is dead in over 90% of the crown and has a high potential to drop large limbs onto the fitness trail. All three trees present a high risk of public safety as a large portion of each tree crown has expired and each tree is located within areas frequented by park users. Copies of the Tree Hazard Evaluation Forms and photos are attached.

DISCUSSION:

In February of 2009, the Columbia Parks & Recreation Department was asked by the City Council to develop a report relating to the removal of larger trees within the park system which may be perceived as significant to the public and/or the use of the park. The report recommended a policy which outlined the procedures to be followed whenever large trees were to be removed due to either being a public safety hazard or due to park development. The 2009 report is attached and in summary, the P&R tree removal procedure for hazardous trees now includes the following key elements:

1. Tree Hazard Evaluation Forms will be completed by the Department's certified International Society of Arboriculture Forester.
2. Trees larger than 20-inch Diameter at Breast Height (DBH) but smaller than 30-inch DBH must have the approval of the Park Development Superintendent and the Park Services Manager to be removed.
3. Trees larger than 30-inch DBH must have the approval of the P&R Director who will notify Council that the tree or trees will be removed.
4. Any size tree that presents an immediate danger to the public shall be removed immediately.

The Pin Oak tree that the Parks and Recreation Forestry staff is proposing to remove is located in Columbia Cosmopolitan Recreation Area in the parking lot next to Harris Shelter. The 41-inch DBH tree has visible signs of Hypoxlon Canker and has a live crown of less than 25% possessing a high potential for falling scaffolding branches and dead limbs from the crown and canopy. The mature Oak tree has had previous branch failures and final failure of the tree was due to drought conditions in the summer of 2012. Forestry staff has determined that the potential for failure is the key factor for the determination of removal due to the location of the tree near pedestrians and automobiles.

The second tree recommended for removal is a Black Walnut located in the northwest corner of Stephens Lake Park along the hard surface trail. The Walnut tree has grown to a mature height of 64 feet with a 30.5 inch diameter at breast height. The tree has approximately 10% living crown and has shown visible signs of wounds, decay and cavity in the branches and root crown. Forestry staff has observed falling limbs and deadwood in the tree over the last 2 years and blame the severe decline over the past year due to the severe drought of 2012. Staff is requesting permission to remove the failing tree due to the risk of failure and public safety due to the proximity to the Stephens Lake Park fitness trail.

The final tree recommended for removal by Forestry staff is a mature Black Oak tree located on the hillside east of the amphitheater at Stephens Lake Park. The tree has a 37" diameter at breast height and a total height of 50 feet. The Black Oak currently has a live crown of approximately 10% and exhibits signs of wounds and decay throughout the trunk and main scaffolding branches. The canopy loss of this Oak tree is due to a previous lighting strike and drought stress from the summer of 2012. The dead canopy has shown previous signs of failure and will continue to drop large, dead limbs if it is not removed. The removal of the tree is necessary due to the weakened state of the tree and the potential for the tree or large branches to fall on park patrons.

All three trees have reached a mature growing age and the majority of the dieback and canopy loss is due to reaching the mature growing age in conjunction with three straight summers with excessive heat and drought conditions. The severe drought of 2012 severely affected the overall health of each of these trees and is the main contributing factor for the tree loss. The forestry staff has already made arrangements to replace the Pin Oak tree at Columbia Cosmopolitan Park with a similar species suitable for the parking lot space as soon as the existing tree is removed. The Walnut tree at Stephens Lake Park will not be replaced because the Forestry staff has already added four Walnut trees to the location adjacent to the Walnut tree in anticipation for the failure of this tree. The Black Oak tree at Stephens Lake Park will be removed and staff will replace the tree with a new Oak tree after minor cleanup and grading to the location. As reported to Council in 2012, there are several trees located between Walnut Street and the Stephens trail that will eventually be lost to age, storms, disease, or other acts of nature, so additional trees have been planted as a replacement and investment toward the future. An early example of this investment is the 82 trees that were planted as part of a TRIM grant in 2004. Another 81 trees have been planted as a result of the community donating memorial and heritage trees to the park. Approximately 150 more trees have been planted as part of shoreline stabilization, tree collections (Maple, Nut, Oak, conifers) and other landscaping projects. The proposed Christy Welliver memorial improvements to the area west of the spraygrounds and beach will add an additional 19 shade and ornamental trees to Stephens Lake Park as well.

FISCAL IMPACT:

There is no fiscal impact to this report.

VISION IMPACT:
http://www.gocolumbiamo.com/Council/Meetings/visionimpact.php

There is no vision impact to this report.

SUGGESTED COUNCIL ACTIONS:

Unless Council directs otherwise, park staff will proceed with the tree removal as outlined in this report.

FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		**Program Impact**		**Mandates**	
City's current net FY cost	$0.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	$0.00	Duplicates/Epands an existing program?	No	**Vision Implementation impact**	
Amount of budget amendment needed	$0.00	Fiscal Impact on any local political subdivision?	No	Enter all that apply: Refer to Web site	
Estimated 2 year net costs:		**Resources Required**		Vision Impact?	No
One Time	$0.00	Requires add'l FTE Personnel?	No	Primary Vision, Strategy and/or Goal Item #	
Operating/ Ongoing	$0.00	Requires add'l facilities?	No	Secondary Vision, Strategy and/or Goal Item #	
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	

Parks Services Natural Resources

Tree Hazard Evaluation Form

Site/Address: Cosmo Park, Harris Shelter Parking Lot

Map/Location: _____

Owner: ☒ public ☐ private ☐ unknown ☐ other

Date: 5/21/2013 Inspector: Nick Harper

Date of last inspection: _____

HAZARD RATING:

3	+	3	+	2	=	8
Failure Potential	+	Size of part	+	Target Rating	=	Hazard Rating

☒ Immediate action needed
☐ Needs further inspection
☒ Dead tree

TREE CHARACTERISTICS

Tree#: _____ **Species:** Pin Oak

DBH: 41" **# of trunks:** 1 **Height:** 60' **Spread:** 50'

Form: ☒ generally symmetric ☐ minor asymmetry ☐ major asymmetry ☐ stump sprout ☐ stag-headed

Crown class: ☒ dominant ☐ co-dominant ☐ intermediate ☐ suppressed

Live crown ration: 25 % **Age class:** ☐ young ☒ mature ☐ over-mature

Pruning history: ☐ crown cleaned ☐ excessively thinned ☐ topped ☐ crown raised ☐ pollarded ☐ crown reduced ☒ none

Special Value: ☐ specimen ☐ heritage/historic ☒ wildlife ☐ unusual ☐ street tree ☒ screen ☒ shade ☒ indigenous ☐ other

TREE HEALTH

Foliage color: ☒ normal ☐ chlorotic ☐ necrotic **Epicormics?** ☒ Y ☐ N

Foliage density: ☐ normal ☒ sparse ☐ **Leaf Size:** ☒ normal ☐ small

Annual shoot growth: ☐ excellent ☐ average ☒ poor ☐ **Twig dieback?** ☒ Y ☐ N

Callus development: ☐ excellent ☐ average ☐ poor ☒ none

Major pests/diseases: Hypoxlon Canker

SITE CONDITIONS

Site character: ☐ residence ☐ commercial ☐ industrial ☒ park ☐ open space ☐ natural _____

Landscape type: ☐ parkway ☐ raised bed ☐ container ☒ open _____

Irrigation: ☒ none ☐ adequate ☐ inadequate ☐ excessive ☐ trunk wetted

% dripline paved: ☐ 0% ☒ 10-25% ☐ 25-50% ☐ 75-100% **Lifted?** ☐ Y ☒ N

% dripline w/fill soil: ☐ 0% ☒ 10-25% ☐ 25-50% ☐ 75-100%

% dripline grade lowered: ☒ 0% ☐ 10-25% ☐ 25-50% ☐ 75-100%

Soil problems: ☐ drainage ☐ shallow ☒ compacted ☐ droughty ☐ saline ☐ alkaline ☐ acidic ☐ small volume ☐ disease center ☐ history of fail

Obstructions: ☐ lights ☐ signage ☐ line-of-site ☐ view ☐ overhead lines ☐ underground utilities ☐ traffic ☒ adjacent veg. _____

Wind (tree position) ☒ single tree ☐ below canopy ☐ above canopy ☐ recently exposed ☐ windward, canopy edge ☐ area prone to windthrow

TARGET

Use under tree: ☐ building ☒ parking ☐ traffic ☐ pedestrian ☒ recreation ☒ landscape ☒ hardscape ☐ small features

Can target be moved? ☐ Y ☒ N

Occupancy: ☐ occasional use ☒ medium, intermittent use ☐ frequent use

TREE DEFECTS: _____

Rate defect severity: ☒ S severe defect, high potential for failure
☐ M defect of moderate severity
☐ L defect of low severity

LEAN: 0 deg. From vertical ☒ natural ☐ unnatural **Soil heaving:** ☐ Y ☒ N
Decay in plane of lean: ☐ Y ☒ N **Roots exposed:** ☐ Y ☒ N **Soil cracking:** ☐ Y ☒ N
Compounding factors: _____ **Lean severity:** ☐ S ☐ M ☒ L

ROOT DEFECTS:
Suspect root rot: ☐ Y ☒ N **Mushroom/conk present:** ☐ Y ☒ N **ID:** _____
Exposed roots: ☐ S ☐ M ☒ L **Undetermined:** ☐ S ☐ M ☒ L
Root pruned: _____ ft from trunk **Root area affected:** _____ % **Buttress wounded:** ☐ Y ☒ N **When:** _____
Restricted root area: ☐ S ☐ M ☒ L **Potential for root failure:** ☐ S ☐ M ☒ L

CROWN DEFECTS:

DEFECT	ROOT CROWN	TRUNK	BRANCHES	MAP
Poor taper	☐	☐	☐	
Codominants/forks	☐	☐	☐	
Multiple attachments	☐	☐	☐	
Included bark	☐	☐	☐	
Cracks/Splits	☐	☐	☐	
Girdling	☐	☐	☐	
Wounds	☐	☐	☐	
Decay	☐	☐	☐	
Cavity	☐	☐	☐	
Conks/Mushrooms	☐	☐	☐	
Bleeding	☐	☐	☐	
Deadwood/stubs	☐	☒	☒	
Borers/termites/ants	☐	☒	☒	
Cankers/galls	☐	☒	☒	
Previous failure	☐	☐	☒	

HAZARD RATING _____

Part most likely to fail: Large Branches
Failure Potential: ☐ 1 ☐ 2 ☒ 3 **Size of Part:** ☐ 1 ☐ 2 ☒ 3 **Target:** ☐ 1 ☒ 2 ☐ 3
Hazard Rating: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☒ 8 ☐ 9

HAZARD ABATEMENT _____

Prune: ☐ remove defective part ☐ reduce end weight ☐ crown clean ☐ thin ☐ raise canopy ☐ crown reduce ☐ restructure ☐ shape
Cable/Brace: _____ **Inspect further:** ☐ root crown ☐ decay ☐ aeriel ☐ monitor
Remove tree: ☒ Y ☐ N **Replace?** ☒ Y ☐ N **Move target:** ☐ Y ☒ N
Other: _____

Effect on adjacent trees: ☒ none ☐ evaluate

COMMENTS

Has the potential to start dropping very large limbs.

Signature _____ ISA# _____ Date 5/21/2013

Pin Oak tree at Columbia Cosmopolitan Recreation Area
at the Harris shelter parking lot

Parks Services Natural Resources

Tree Hazard Evaluation Form

Site/Address: Stephens Lake Park

Map/Location: On hill east of amphitheater.

Owner: ☒ public ☐ private ☐ unknown ☐ other

Date: 5/3/2013 Inspector: Nick Harper, Eric Schmittel

Date of last inspection: _____

HAZARD RATING:

3	+	3	+	3	=	9
Failure Potential	+	Size of part	+	Target Rating	=	Hazard Rating

☒ Immediate action needed
☐ Needs further inspection
☒ Dead tree

TREE CHARACTERISTICS

Tree#: _____ **Species:** Quercus velutina (Black Oak)

DBH: 37" **# of trunks:** 2 **Height:** 50' **Spread:** 60'

Form: ☒ generally symmetric ☐ minor asymmetry ☐ major asymmetry ☐ stump sprout ☐ stag-headed

Crown class: ☒ dominant ☐ co-dominant ☐ intermediate ☐ suppressed

Live crown ration: 10 % **Age class:** ☐ young ☒ mature ☐ over-mature

Pruning history: ☐ crown cleaned ☐ excessively thinned ☐ topped ☐ crown raised ☐ pollarded ☐ crown reduced ☒ none

Special Value: ☒ specimen ☒ heritage/historic ☒ wildlife ☒ unusual ☐ street tree ☐ screen ☒ shade ☒ indigenous ☐ other

TREE HEALTH

Foliage color: ☒ normal ☐ chlorotic ☒ necrotic **Epicormics?** ☐ Y ☒ N

Foliage density: ☐ normal ☒ sparse ☐ **Leaf Size:** ☒ normal ☐ small

Annual shoot growth: ☐ excellent ☐ average ☒ poor ☐ **Twig dieback?** ☒ Y ☐ N

Callus development: ☐ excellent ☐ average ☐ poor ☒ none

Major pests/diseases: Boring insects (unidentified)

SITE CONDITIONS

Site character: ☐ residence ☐ commercial ☐ industrial ☒ park ☐ open space ☐ natural _____

Landscape type: ☐ parkway ☐ raised bed ☐ container ☒ open _____

Irrigation: ☒ none ☐ adequate ☐ inadequate ☐ excessive ☐ trunk wetted

% dripline paved: ☒ 0% ☐ 10-25% ☐ 25-50% ☐ 75-100% **Lifted?** ☐ Y ☐ N

% dripline w/fill soil: ☒ 0% ☐ 10-25% ☒ 25-50% ☐ 75-100%

% dripline grade lowered: ☐ 0% ☐ 10-25% ☒ 25-50% ☐ 75-100%

Soil problems: ☐ drainage ☒ shallow ☒ compacted ☐ droughty ☐ saline ☒ alkaline ☐ acidic ☐ small volume ☐ disease center ☐ history of fail

Obstructions: ☐ lights ☐ signage ☐ line-of-site ☐ view ☐ overhead lines ☐ underground utilities ☐ traffic ☒ adjacent veg. _____

Wind (tree position): ☒ single tree ☐ below canopy ☐ above canopy ☐ recently exposed ☐ windward, canopy edge ☐ area prone to windthrow

TARGET

Use under tree: ☐ building ☐ parking ☐ traffic ☒ pedestrian ☒ recreation ☒ landscape ☒ hardscape ☐ small features

Can target be moved? ☐ Y ☒ N

Occupancy: ☐ occasional use ☒ medium, intermittent use ☐ frequent use

TREE DEFECTS: _____

Rate defect severity: ☒ S severe defect, high potential for failure
☐ M defect of moderate severity
☐ L defect of low severity

LEAN: 15 deg. From vertical ☒ natural ☐ unnatural **Soil heaving:** ☐ Y ☒ N
Decay in plane of lean: ☒ Y ☐ N **Roots exposed:** ☐ Y ☒ N **Soil cracking:** ☐ Y ☒ N
Compounding factors: Lightening strike on east side of tree. **Lean severity:** ☐ S ☐ M ☒ L

ROOT DEFECTS:
Suspect root rot: ☐ Y ☒ N **Mushroom/conk present:** ☒ Y ☐ N **ID:** Shelf fungus
Exposed roots: ☐ S ☐ M ☒ L **Undetermined:** ☐ S ☒ M ☐ L
Root pruned: 12 ft from trunk **Root area affected:** 40 % **Buttress wounded:** ☒ Y ☐ N **When:** _____
Restricted root area: ☐ S ☒ M ☐ L **Potential for root failure:** ☐ S ☐ M ☒ L

CROWN DEFECTS:

DEFECT	ROOT CROWN	TRUNK	BRANCHES	MAP
Poor taper	☐	☐	☐	
Codominants/forks	☐	☒	☒	
Multiple attachments	☐	☐	☒	
Included bark	☐	☐	☐	
Cracks/Splits	☐	☒	☒	
Girdling	☐	☐	☐	
Wounds	☒	☒	☒	
Decay	☒	☒	☒	
Cavity	☐	☒	☒	
Conks/Mushrooms	☒	☒	☒	
Bleeding	☐	☐	☐	
Deadwood/stubs	☐	☐	☐	
Borers/termites/ants	☒	☒	☒	
Cankers/galls	☒	☒	☒	
Previous failure	☐	☐	☒	

HAZARD RATING _____

Part most likely to fail: Large limbs breaking off, possible failure due to lightening strike
Failure Potential: ☐ 1 ☐ 2 ☒ 3 **Size of Part:** ☐ 1 ☐ 2 ☒ 3 **Target:** ☐ 1 ☐ 2 ☒ 3
Hazard Rating: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☒ 9

HAZARD ABATEMENT _____

Prune: ☐ remove defective part ☐ reduce end weight ☐ crown clean ☐ thin ☐ raise canopy ☐ crown reduce ☐ restructure ☐ shape
Cable/Brace: _____ **Inspect further:** ☐ root crown ☐ decay ☐ aeriel ☐ monitor
Remove tree: ☒ Y ☐ N **Replace?** ☒ Y ☐ N **Move target:** ☐ Y ☒ N
Other: _____

Effect on adjacent trees: ☒ none ☐ evaluate

COMMENTS

The canopy of this tree is over 90% dead due to a previous lightening strike and drought stress from the summer of 2012. This dead canopy has shown signs of previous failure and will continue to drop large dead limbs. We recommend the removal of this tree as soon as possible to prevent injury to park users.

Signature _____ **ISA#** MW4775A **Date** 5/31/13

Black Oak tree at Stephens Lake Park
on the hills east of the amphitheater

Parks Services Natural Resources

Tree Hazard Evaluation Form

Site/Address: Stephens Lake Park

Map/Location: Northwest corner of park along hard surface trail

Owner: ☒ public ☐ private ☐ unknown ☐ other

Date: 5/31/13 Inspector: Nick Harper, Eric Schmittel

Date of last inspection: _____

HAZARD RATING:

3	+	3	+	3	=	9
Failure Potential	+	Size of part	+	Target Rating	=	Hazard Rating

☐ Immediate action needed
☐ Needs further inspection
☐ Dead tree

TREE CHARACTERISTICS

Tree#: _____ **Species:** Juglans nigra (Black Walnut)

DBH: 30.5 **# of trunks:** 1 **Height:** 64' **Spread:** 30'

Form: ☐ generally symmetric ☐ minor asymmetry ☒ major asymmetry ☐ stump sprout ☐ stag-headed

Crown class: ☒ dominant ☐ co-dominant ☐ intermediate ☐ suppressed

Live crown ration: 10 % **Age class:** ☐ young ☒ mature ☐ over-mature

Pruning history: ☒ crown cleaned ☒ excessively thinned ☐ topped ☐ crown raised ☐ pollarded ☒ crown reduced ☐ none

Special Value: ☒ specimen ☐ heritage/historic ☒ wildlife ☐ unusual ☐ street tree ☐ screen ☒ shade ☒ indigenous ☐ other

TREE HEALTH

Foliage color: ☒ normal ☐ chlorotic ☐ necrotic **Epicormics?** ☒ Y ☐ N

Foliage density: ☐ normal ☒ sparse ☐ **Leaf Size:** ☒ normal ☐ small

Annual shoot growth: ☐ excellent ☐ average ☒ poor ☐ **Twig dieback?** ☒ Y ☐ N

Callus development: ☐ excellent ☐ average ☒ poor ☒ none

Major pests/diseases: _____

SITE CONDITIONS

Site character: ☐ residence ☐ commercial ☐ industrial ☒ park ☐ open space ☐ natural _____

Landscape type: ☐ parkway ☐ raised bed ☐ container ☒ open _____

Irrigation: ☒ none ☐ adequate ☐ inadequate ☐ excessive ☐ trunk wetted

% dripline paved: ☐ 0% ☒ 10-25% ☐ 25-50% ☐ 75-100% **Lifted?** ☐ Y ☐ N

% dripline w/fill soil: ☐ 0% ☐ 10-25% ☒ 25-50% ☐ 75-100%

% dripline grade lowered: ☐ 0% ☐ 10-25% ☒ 25-50% ☐ 75-100%

Soil problems: ☐ drainage ☐ shallow ☒ compacted ☐ droughty ☐ saline ☐ alkaline ☐ acidic ☐ small volume ☐ disease center ☒ history of fail

Obstructions: ☐ lights ☐ signage ☐ line-of-site ☐ view ☐ overhead lines ☐ underground utilities ☐ traffic ☐ adjacent veg. _____

Wind (tree position): ☒ single tree ☐ below canopy ☐ above canopy ☐ recently exposed ☐ windward, canopy edge ☐ area prone to windthrow

TARGET

Use under tree: ☐ building ☐ parking ☐ traffic ☒ pedestrian ☒ recreation ☐ landscape ☒ hardscape ☐ small features

Can target be moved? ☐ Y ☒ N

Occupancy: ☐ occasional use ☐ medium, intermittent use ☒ frequent use

TREE DEFECTS: _____

Rate defect severity: ☒ S severe defect, high potential for failure
☐ M defect of moderate severity
☐ L defect of low severity

LEAN: 0 deg. From vertical ☒ natural ☐ unnatural Soil heaving: ☐ Y ☒ N
Decay in plane of lean: ☐ Y ☒ N Roots exposed: ☐ Y ☒ N Soil cracking: ☐ Y ☒ N
Compounding factors: _____ Lean severity: ☐ S ☐ M ☒ L

ROOT DEFECTS:
Suspect root rot: ☐ Y ☒ N Mushroom/conk present: ☒ Y ☐ N ID: Auricularia auricula
Exposed roots: ☐ S ☐ M ☒ L Undetermined: ☐ S ☐ M ☒ L
Root pruned: _____ ft from trunk Root area affected: _____ % Buttress wounded: ☒ Y ☐ N When: _____
Restricted root area: ☐ S ☐ M ☒ L Potential for root failure: ☐ S ☐ M ☒ L

CROWN DEFECTS:

DEFECT	ROOT CROWN	TRUNK	BRANCHES	MAP
Poor taper	☐	☐	☐	
Codominants/forks	☐	☒	☒	
Multiple attachments	☐	☐	☐	
Included bark	☐	☐	☐	
Cracks/Splits	☐	☐	☐	
Girdling	☐	☐	☐	
Wounds	☒	☐	☒	
Decay	☐	☐	☒	
Cavity	☐	☐	☒	
Conks/Mushrooms	☐	☐	☒	
Bleeding	☐	☐	☐	
Deadwood/stubs	☐	☐	☒	
Borers/termites/ants	☐	☐	☒	
Cankers/galls	☐	☐	☐	
Previous failure	☐	☐	☒	

HAZARD RATING _____

Part most likely to fail: Dead branches in canopy.
Failure Potential: ☐ 1 ☐ 2 ☒ 3 Size of Part: ☐ 1 ☐ 2 ☒ 3 Target: ☐ 1 ☐ 2 ☒ 3
Hazard Rating: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☒ 9

HAZARD ABATEMENT _____

Prune: ☐ remove defective part ☐ reduce end weight ☐ crown clean ☐ thin ☐ raise canopy ☐ crown reduce ☐ restructure ☐ shape
Cable/Brace: _____ Inspect further: ☐ root crown ☐ decay ☐ aeriel ☐ monitor
Remove tree: ☒ Y ☐ N Replace? ☒ Y ☐ N Move target: ☐ Y ☒ N
Other: _____

Effect on adjacent trees: ☒ none ☐ evaluate

COMMENTS

This tree has shown pervious limb failure and has a high potential for dropping large limbs onto a high use recreation trail.

Signature _____ ISA# MW-7754 Date 5/31/13

Black Walnut tree at Stephens Lake Park in the northwest corner of park along the hard surface trail