

# Forestry Plan-Update

April 22, 2019



# Bids Received

Item No.	Description	Unit	Quantity	Gamma		Davey		Arbor Master		Hansen	
				Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost
1	Removal of Tree (<12" DBH)	EA	50	\$ 250.00	\$12,500.00	\$ 480.00	\$24,000.00	\$ 275.00	\$13,750.00	\$ 500.00	\$25,000.00
2	Removal of Tree (12"-36" DBH)	EA	100	\$ 675.00	\$67,500.00	\$ 1,000.00	\$100,000.00	\$ 975.00	\$97,500.00	\$ 1,560.00	\$156,000.00
3	Removal of Tree (> 36" DBH)	EA	10	\$ 1,450.00	\$14,500.00	\$ 3,300.00	\$33,000.00	\$ 1,700.00	\$17,000.00	\$ 2,240.00	\$22,400.00
4	Stump Removal (Dia. at Ground)	Inch	3000	\$ 4.50	\$13,500.00	\$ 5.00	\$15,000.00	\$ 5.00	\$15,000.00	\$ 12.00	\$36,000.00
5	Tree Pruning	DBH	500	\$ 8.75	\$4,375.00	\$ 32.00	\$16,000.00	\$ 15.00	\$7,500.00	\$ 20.00	\$10,000.00
6	EAB Treatment	DBH	500	\$ 8.00	\$4,000.00	\$ 7.00	\$3,500.00	\$ 12.00	\$6,000.00	\$ 8.50	\$4,250.00
7	Plant 2 ½" Beech	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
8	Plant 2 ½" European Hornbeam	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
9	Plant 2 ½" Littleleaf Linden	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
10	Plant 2 ½" Blackgum	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
11	Plant 2 ½" Bur Oak or English Oak	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
12	Plant 2 ½" Japanese Zelkova	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
13	Pant 2 ½" Japanese Pagodatree	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
14	Plant 2 ½" Amur Corktree	EA	20	\$ 295.00	\$5,900.00	\$ 525.00	\$10,500.00	\$ 800.00	\$16,000.00	\$ 564.00	\$11,280.00
<b>Total Bid</b>				<b>\$163,575.00</b>		<b>\$275,500.00</b>		<b>\$284,750.00</b>		<b>\$343,890.00</b>	

# 2019 Plan for Ash in ROW

Public Works-Ash Removal & Treatment					Phase 1-2019	
Item No.	Description	Unit	Quantity	Unit Cost	Extended Cost	
1	Removal of Tree (<12" DBH)	EA	10	\$ 250.00	\$2,500.00	
2	Removal of Tree (12"-36" DBH)	EA	53	\$ 675.00	\$35,775.00	
3	Removal of Tree (> 36" DBH)	EA	0	\$ 1,450.00	\$0.00	
6	EAB Treatment (156 trees)	DBH	2607	\$ 8.00	\$20,856.00	
7	Plant Replacement Trees in Fall	EA	63	\$ 295.00	\$18,585.00	
<b>Total Work Order</b>					<b>\$77,716.00</b>	

PW forestry budget includes \$78,000 for 2019



# Five Year Plan

<b>Public Works-Ash Removals</b>					<b>Phase 2-2020</b>	
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Extended Cost</b>	
1	Removal of Tree (<12" DBH)	EA	18	\$ 250.00	\$4,500.00	
2	Removal of Tree (12"-36" DBH)	EA	75	\$ 675.00	\$50,625.00	
3	Removal of Tree (> 36" DBH)	EA	0	\$ 1,450.00	\$0.00	
7	Plant Replacement Trees in Fall	EA	93	\$ 295.00	\$27,435.00	
<b>Total Work Order</b>					<b>\$82,560.00</b>	

Start removing Ash Trees in Fair condition

<b>Public Works-Ash Removal &amp; Treatment</b>					<b>Phase 3-2021</b>	
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Extended Cost</b>	
1	Removal of Tree (<12" DBH)	EA	0	\$ 250.00	\$0.00	
2	Removal of Tree (12"-36" DBH)	EA	65	\$ 675.00	\$43,875.00	
3	Removal of Tree (> 36" DBH)	EA	0	\$ 1,450.00	\$0.00	
6	EAB Treatment (156 trees)	DBH	2700	\$ 8.00	\$21,600.00	
7	Plant Replacement Trees in Fall	EA	65	\$ 295.00	\$19,175.00	
<b>Total Work Order</b>					<b>\$84,650.00</b>	

Continue removing Ash Trees in Fair Condition

2nd treatment of Ash Trees in Good Condition (DBH inflated for growth)

<b>Public Works-Ash Removals</b>					<b>Phase 4-2022</b>	
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Extended Cost</b>	
1	Removal of Tree (<12" DBH)	EA	0	\$ 250.00	\$0.00	
2	Removal of Tree (12"-36" DBH)	EA	85	\$ 675.00	\$57,375.00	
3	Removal of Tree (> 36" DBH)	EA	0	\$ 1,450.00	\$0.00	
7	Plant Replacement Trees in Fall	EA	85	\$ 295.00	\$25,075.00	
<b>Total Work Order</b>					<b>\$82,450.00</b>	

Continue removing Ash Trees in Fair Condition

<b>Public Works-Ash Removal &amp; Treatment</b>					<b>Phase 5-2023</b>	
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Extended Cost</b>	
1	Removal of Tree (<12" DBH)	EA	0	\$ 250.00	\$0.00	
2	Removal of Tree (12"-36" DBH)	EA	58	\$ 675.00	\$39,150.00	
3	Removal of Tree (> 36" DBH)	EA	1	\$ 1,450.00	\$1,450.00	
6	EAB Treatment (156 trees)	DBH	2800	\$ 8.00	\$22,400.00	
7	Plant Replacement Trees in Fall	EA	59	\$ 295.00	\$17,405.00	
<b>Total Work Order</b>					<b>\$80,405.00</b>	

Finish removing Ash Trees in Fair Condition

3rd treatment of Ash Trees in Good Condition (DBH inflated for growth)

Increasing PW forestry budget slightly will allow for completion in 5 years



# Laminated Tree Signs

## EAB IS GOING TO GET ME!

The Emerald Ash Borer (EAB) is a beetle that came to North America from China in shipping crates. The beetle only feeds on ash trees, and has decimated the ash population, spreading out from the Great Lakes, where it first arrived. Over the next ten years, most ash trees in the United States will be wiped out. While treatment is possible, it is an ongoing expense and not guaranteed to work. Therefore, most cities are removing ash trees, either preemptively, or as their health deteriorates. Preemptive removal helps slow the spread of EAB by reducing its food source. Here in Des Peres, using the tree inventory collected last year, we will be removing dead and poor ash trees over the next few years. This tree has been identified as an ash tree that will need to be removed.



EAB information from Missouri  
Dept. of Natural Resources



Des Peres Tree Inventory

# Related Funding Sources

## ▶ Public Works/Streets

- ▶ 10-555-54085 Forestry/Tree Removal
  - ▶ \$20,000: Ash Tree Removal
  - ▶ \$8,000: Trees Removed by Contractor (typical)
  - ▶ Removals by Streets staff
- ▶ 30-555-57100 Major Projects
  - ▶ \$50,000: ROW Forestry Program (Offset by Tree Fund)

## ▶ Parks & Recreation

- ▶ 20-590-53035 Office Supplies
  - ▶ \$1,850: Donation Program-Trees
  - ▶ \$10,000: Trees, Flowers, Seeds
- ▶ 20-590-54085 Forestry/Tree Removal
  - ▶ \$3,000: EAB Treatment
  - ▶ \$8,000: Tree Removal & Pruning in Parks