

**City of Maplewood  
North Fire Station Reconstruction Project  
Tree Inventory - 10/1/2020 (updated 10/30/20)**

	<b>Species</b>	<b>Significant (12"+)</b>	<b>Specimen 28"+</b>
1	Cottonwood	22	
2	Cottonwood	22	
3	Cottonwood	18	
4	Cottonwood	16	
5	Cottonwood	21	
6	Cottonwood	16	
7	Am. Elm	14	
8	Am. Elm	15	
9	Am. Elm	14	
10	Cottonwood	12	
11	Cottonwood	12	
12	Cottonwood	16	
13	Am. Elm	13	
14	S. Elm	18	
15	Cottonwood	20	
16	Cottonwood	16	
17	Cottonwood	12	
18	Cottonwood	19	
19	Cottonwood	13	
20	Box Elder	18	
21	Box Elder	18	
22	Box Elder	12	
23	Cottonwood	13	
24	S. Elm	17	
25	S. Elm	16	
26	S. Elm	12	
27	S. Elm	12	
28	Cottonwood	22	
29	Cottonwood	26	
30	S. Elm	13	
31	Am. Elm	14	
32	Am. Elm	16	
33	S. Elm	15	
34	S. Elm	17	
35	S. Elm	16	
36	S. Elm	19	
37	S. Elm	16	
38	S. Elm	12	
39	S. Elm	17	
40	S. Elm	14	
41	S. Elm	17	

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42	S. Elm	12	
43	S. Elm	14	
44	S. Elm	13	
45	S. Elm	14	
46	S. Elm	12	
47	S. Elm	16	
48	S. Elm	12	
49	S. Elm	15	
50	Box Elder	14	
51	S. Elm	17	
52	S. Elm	13	
53	Cottonwood	23	
54	Cottonwood	25	
55	Cottonwood	25	
56	S. Elm	15	
57	S. Elm	13	
58	S. Elm	15	
59	S. Elm	20	
60	S. Elm	20	
61	Cottonwood	26	
62	Cottonwood	26	
63	S. Elm	15	
64	Am. Elm	15	
65	S. Elm	19	
66	S. Elm	13	
67	S. Elm	21	
68	S. Elm	13	
69	S. Elm	17	
70	S. Elm	14	
71	S. Elm	17	
72	S. Elm	19	
73	S. Elm	20	
74	S. Elm	14	
75	S. Elm	14	
76	S. Elm	14	
77	S. Elm	13	
78	S. Elm	13	
79	Silver Maple		34
80	Silver Maple	19	
81	Silver Maple	20	
82	Burr Oak		
83	Maple	16	
84	Colorado Blue Spruce	21	
85	White Spruce	17	

On R/W, not included      Save

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86	S. Elm	14	
87	S. Elm	13	
88	S. Elm	13	
89	S. Elm	15	
90	S. Elm	17	
91	S. Elm	16	
92	S. Elm	16	
93	S. Elm	12	
94	S. Elm	17	
95	S. Elm	15	
96	S. Elm	22	
97	S. Elm	19	
98	S. Elm	16	
99	S. Elm	15	
	<b>Total Diameter</b>	<b>1585</b>	<b>34</b>

(total of significant)                      (total of specimen)

A	total diameter inches of significant & specimen trees lost	1585 diam in
B	total diameter inches of significant & specimen trees on property	1619 diam in
C	tree replacement constant (1.5)	1.5
D	total diameter inches of specimen trees saved	34 in
<hr/>		
E	replacement trees (# of caliper inches)	

$$[(((A/B)-0.2) \times C) \times A] - [D/2] = E$$

$$[(((K108/K110)-0.2) \times 1.5) \times K108] - [K114/2]$$

$$[(((1585/1619)-0.2) \times 1.5) \times 1585] - [34/2]$$

1835 Total diameter inches

**NORTH FIRE STATION  
CITY OF MAPLEWOOD  
TREE REPLACEMENT & MITIGATION SUMMARY  
JANUARY 28, 2021**

<b>TREE INVENTORY SUMMARY</b>	
*Based on tree inventory and replacement calculations submitted to the City of Maplewood October 20, 2020.	
Total Caliper Inches of Significant & Specimen Trees on Property	1619
Total Caliper Inches of Significant & Specimen Trees Lost	1585
Total Caliper Inches of Replacement Trees	1835

<b>PROJECT TREE REPLACEMENT CREDIT</b>			
*Proposed project tree and shrub plantings contributing as tree replacement			
	Equivalent Caliper Inches	Quantity (Each)	Subtotal
<b>DECIDUOUS TREES</b>			
8' Height (Clump Form)	3	2	6
2.5" Caliper	2.5	18	45
2" Caliper	2	21	42
6' Height (Clump Form)	2	14	28
<b>CONIFEROUS TREES</b>			
6' Height	2	27	54
<b>SHRUBS (native, non-foundation, #3 cont. minimum)</b>			
#5 Cont Shrubs, native shrub massings	0.5	72	36
<b>TOTAL TREE REPLACEMENT CREDIT (CALIPER INCHES)</b>			<b>211</b>

<b>PROJECT TREE MITIGATION</b>			
*Tree replacement escrow as required by the City of Maplewood, 2020 Fee Schedule			
'Tree replacement fee for trees that cannot be replaced on site': \$60.00 per caliper			
	"Calculated Replacement Trees" - "Project Tree Replacement Credit" (in Caliper Inches)	Unit Fee (per Caliper Inch)	Total
Total Project Tree Replacement Fee	1624	\$ 60.00	\$ 97,440