

Tree Protection and Preservation Report

for

Horning Brothers

David Roodberg

Stanton Square Project

Washington, DC 20020



550 Bedford Road

Bedford Hills, NY 10507

914-299-5600

www.savatree.com/consulting

© 2015 Nature's Trees, Inc. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopy, recording, or otherwise) without written permission from Nature's Trees, Inc.

ZONING COMMISSION
District of Columbia
CASE NO.13-09
EXHIBIT NO.18B

TABLE OF CONTENTS

Background.....	1
How did SavATree conduct the Assessment?	1
What did SavATree find?	1
Appendix A: Attribute Data	4

BACKGROUND

Horning Brothers retained SavATree to provide tree and plant protection services at the Stanton Square project site in Southeast, Washington, DC.

Our task was to provide tree species, size (diameter at breast height), and canopy spread for the trees identified on the provided civil plan. In addition, we performed an ANSI A300 (Part 9) Level 2 tree risk assessment for all trees that measured 17-inches and larger in diameter. In addition, we noted whether each tree will be removed or protected as part of the project. We performed the field work on September 8 & 9, 2015. Any trees measuring 17-inches or greater that were not included on the site plans were added.

HOW DID SAVATREE CONDUCT THE ASSESSMENT?

We began the assignment populating an ArcGIS Online data template created based on the requirements of the assignment. This allowed us to place a point on a map and populate a form associated with the point.

Species data were collected by visual observation. Size data were collected using a Biltmore stick. Crown spread data were collected by field measurement of crown radius in two perpendicular directions, then averaging and doubling the results. Condition data were collected by visual observation (ANSI A300 (Part 9) Level 1; observations of open and obvious defects and conditions were made during a “walk by” foot patrol) and were not 360-degree, top-to-bottom visual assessments. Action recommendations were made by identifying trees for removal based on the following:

- The tree is dead;
- The tree has a significant defect and poses a risk of failure and resulting injury or property damage; or,
- The tree is an invasive species under the DC Tree Bill.

Level 2 risk assessments (360-degree ground based visual assessments) were performed according to ANSI A300 (Part 9) 2011.

WHAT DID SAVATREE FIND?

A map of the tree survey is included in Appendix A at the end of this report. A database of our findings is provided in Appendix B. Three hundred and fifteen trees were assessed and included in the survey. Of the 315 trees to be removed, 29 are species that are Exempt under the DC Tree Bill (24 ailanthus and five mulberry trees). Another 101 trees were assessed as Hazardous. Fifty-seven of the hazardous trees are dead trees.

Based upon my assessment, 185 trees will be removed from the site that are not Exempt from the Tree Bill. Of these, 100 were measured to be 17-inches or greater in diameter at breast height.

Action	Count
Remove-Hazardous	101
Remove -Exempt	29
Remove - under 17 inches	85
Remove - over 17 inches	100

Table 1 - tree action summary

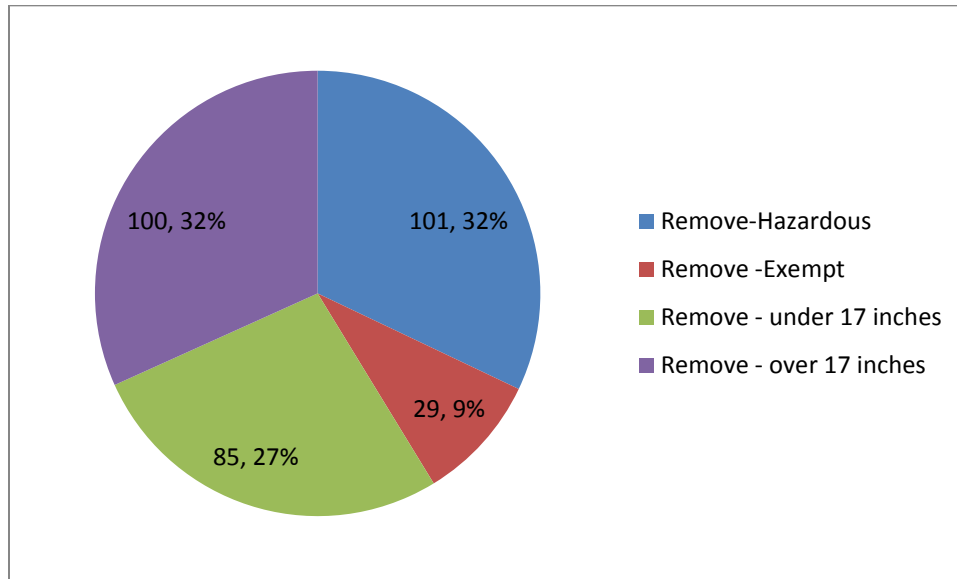


Figure 1 - tree action summary

APPENDIX A: TREE SURVEY MAP



Map of trees included in the tree survey. Red icons are trees that were assessed as Hazardous; Orange are species that are exempt from the Tree Bill; and Yellow Trees will need to be removed for the project.

APPENDIX B: ATTRIBUTE DATA

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
1	Mulberry	37	59	Fair	Remove - Exempt
2	American elm	21	45	Good	Remove
3	Black walnut	22	41	Good	Remove
4	American elm	25	30	Hazardous	Remove - Hazardous
5	Ailanthus	19	50	Fair	Remove - Exempt
6	Eastern cottonwood	34	52	Fair	Remove - Hazardous
7	Black locust	30	0	Dead	Remove - Hazardous
8	Callery pear	19	30	Fair	Remove
9	Black locust	20	52	Good	Remove
11	Mulberry	24	45	Fair	Remove - Exempt
12	Black locust	28	44	Fair	Remove
13	Red oak	14	39	Fair	Remove
14	Black oak	20	0	Dead	Remove - Hazardous
15	Black cherry	17	29	Fair	Remove
16	Ailanthus	8	20	Fair	Remove - Exempt
17	Black locust	28	31	Hazardous	Remove - Hazardous
18	American elm	14	25	Fair	Remove
19	Black cherry	11	11	Hazardous	Remove - Hazardous
20	Black locust	38	26	Hazardous	Remove - Hazardous
21	American elm	15	28	Fair	Remove
22	Black locust	17	30	Hazardous	Remove - Hazardous
23	Black cherry	16	23	Fair	Remove
24	Black locust	11	13	Hazardous	Remove - Hazardous
25	Black cherry	17	38	Fair	Remove
26	Red oak	34	40	Fair	Remove
27	Willow oak	9	16	Good	Remove
28	Willow oak	12	25	Good	Remove
29	Black cherry	12	25	Fair	Remove
30	Black cherry	21	39	Fair	Remove
31	Black cherry	17	34	Fair	Remove
32	Black locust	16	22	Hazardous	Remove - Hazardous
33	Sassafras	15	0	Dead	Remove - Hazardous
34	Black cherry	17	25	Fair	Remove
35	Black locust	17	0	Dead	Remove - Hazardous
36	Black locust	27	33	Poor	Remove
37	Black locust	17	0	Dead	Remove - Hazardous
38	Black locust	19	34	Fair	Remove
39	Black cherry	14	36	Good	Remove
40	Black locust	14	21	Poor	Remove
41	Black locust	14	25	Fair	Remove
42	American elm	13	24	Poor	Remove
43	Black locust	12	19	Fair	Remove
44	Black locust	12	6	Hazardous	Remove - Hazardous
45	Black locust	14	12	Hazardous	Remove - Hazardous
46	Black locust	14	22	Fair	Remove
47	Black locust	13	0	Dead	Remove - Hazardous
48	Black locust	24	30	Fair	Remove

APPENDIX B: ATTRIBUTE DATA (CONTINUED)

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
49	Black locust	14	19	Hazardous	Remove - Hazardous
50	Black locust	25	35	Fair	Remove
51	Black locust	17	0	Dead	Remove - Hazardous
52	Sweet cherry	15	30	Hazardous	Remove - Hazardous
53	Black locust	22	36	Fair	Remove
54	Black locust	24	32	Hazardous	Remove - Hazardous
55	Black locust	14	32	Poor	Remove
56	Black locust	20	31	Fair	Remove
57	Black locust	14	0	Hazardous	Remove - Hazardous
58	Hickory	16	40	Good	Remove
59	Black locust	20	37	Fair	Remove
60	Black locust	12	0	Dead	Remove - Hazardous
61	Black locust	17	0	Dead	Remove - Hazardous
62	Hickory	9	20	Good	Remove
63	Black locust	13	0	Dead	Remove - Hazardous
64	Hickory	10	0	Dead	Remove - Hazardous
65	Hickory	11	27	Fair	Remove
66	Black locust	20	0	Hazardous	Remove - Hazardous
67	American elm	12	35	Fair	Remove
68	Black cherry	22	0	Dead	Remove - Hazardous
69	Black cherry	11	0	Dead	Remove - Hazardous
70	Black cherry	22	0	Dead	Remove - Hazardous
71	Mulberry	12	20	Fair	Remove - Exempt
72	American elm	26	0	Dead	Remove - Hazardous
73	Silver maple	16	30	Poor	Remove
74	Silver maple	16	33	Fair	Remove
75	American elm	17	45	Fair	Remove
76	Silver maple	12	38	Fair	Remove
77	Hickory	9	33	Fair	Remove
78	Black locust	19	32	Fair	Remove
79	Black locust	9	0	Dead	Remove - Hazardous
80	Black locust	20	0	Dead	Remove - Hazardous
81	Ailanthus	15	24	Good	Remove - Exempt
82	Black cherry	25	31	Poor	Remove
83	Ailanthus	19	27	Fair	Remove - Exempt
84	Walnut	19	17	Hazardous	Remove - Hazardous
85	Cottonwood	15	27	Fair	Remove
86	Ailanthus	11	26	Good	Remove - Exempt
87	Black locust	11	24	Fair	Remove
88	Black locust	14	0	Dead	Remove - Hazardous
89	Black locust	28	30	Poor	Remove
90	Black locust	14	0	Hazardous	Remove - Hazardous
91	Black locust	19	0	Dead	Remove - Hazardous
92	Black locust	15	12	Hazardous	Remove - Hazardous
93	Black locust	21	0	Dead	Remove - Hazardous
94	Black locust	14	10	Hazardous	Remove - Hazardous
95	Black locust	11	0	Dead	Remove - Hazardous

APPENDIX B: ATTRIBUTE DATA (CONTINUED)

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
96	Red maple	16	29	Fair	Remove
97	Black locust	14	20	Hazardous	Remove - Hazardous
98	Black cherry	16	22	Fair	Remove
99	Red maple	19	39	Good	Remove
100	Black locust	15	0	Dead	Remove - Hazardous
101	Red maple	17	33	Hazardous	Remove - Hazardous
102	Black locust	12	0	Dead	Remove - Hazardous
103	Black locust	16	0	Dead	Remove - Hazardous
104	Black locust	12	0	Dead	Remove - Hazardous
105	Black locust	20	0	Dead	Remove - Hazardous
106	Black locust	19	0	Dead	Remove - Hazardous
107	Black locust	29	25	Fair	Remove
108	Sugar maple	14	43	Good	Remove
109	Black locust	14	0	Dead	Remove - Hazardous
110	Black cherry	17	0	Dead	Remove - Hazardous
111	Black locust	16	26	Poor	Remove
112	Red maple	17	0	Dead	Remove - Hazardous
113	Black locust	12	24	Fair	Remove
114	Black locust	27	30	Fair	Remove
115	Black cherry	17	0	Hazardous	Remove - Hazardous
116	Black locust	17	25	Fair	Remove
117	American elm	18	41	Fair	Remove
118	Black locust	19	29	Hazardous	Remove - Hazardous
119	American elm	17	31	Fair	Remove
120	Ailanthus	14	28	Fair	Remove - Exempt
121	Ailanthus	15	24	Good	Remove - Exempt
122	Ailanthus	13	25	Good	Remove - Exempt
123	Black locust	12	25	Fair	Remove
124	American elm	24	50	Good	Remove
125	American elm	15	24	Fair	Remove
126	Black locust	12	0	Dead	Remove - Hazardous
127	Black cherry	17	27	Fair	Remove
128	Black cherry	16	16	Hazardous	Remove - Hazardous
129	Black cherry	12	22	Poor	Remove
130	Black cherry	14	20	Fair	Remove
131	Black locust	19	29	Fair	Remove
132	Red oak	32	46	Fair	Remove
133	Sassafras	14	23	Poor	Remove
134	Hackberry	20	36	Fair	Remove
135	Black cherry	14	25	Poor	Remove
136	Black cherry	19	27	Hazardous	Remove - Hazardous
137	Black locust	16	21	Hazardous	Remove - Hazardous
138	American elm	15	33	Fair	Remove
139	Red maple	16	42	Good	Remove
140	Black cherry	30	42	Poor	Remove
141	Sassafras	12	26	Good	Remove
142	Black cherry	34	0	Dead	Remove - Hazardous

APPENDIX B: ATTRIBUTE DATA (CONTINUED)

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
143	Red oak	28	45	Fair	Remove
144	White oak	28	46	Good	Remove
145	Red maple	12	29	Good	Remove
146	Red maple	9	21	Fair	Remove
147	Red maple	20	47	Good	Remove
148	Mulberry	24	35	Hazardous	Remove - Exempt
149	Black locust	17	21	Hazardous	Remove - Hazardous
150	Black locust	14	0	Dead	Remove - Hazardous
151	Black oak	22	34	Fair	Remove
152	Black cherry	16	35	Fair	Remove
153	Red maple	13	32	Fair	Remove
154	Black cherry	26	21	Hazardous	Remove - Hazardous
155	Tulip poplar	23	36	Fair	Remove
156	Red maple	13	32	Good	Remove
157	Red maple	24	37	Fair	Remove
158	Tulip poplar	44	41	Fair	Remove
159	Red maple	14	31	Hazardous	Remove - Hazardous
160	American beech	13	31	Good	Remove
161	Black cherry	24	25	Hazardous	Remove - Hazardous
162	Red oak	21	23	Hazardous	Remove - Hazardous
163	Red maple	17	34	Fair	Remove
164	Red oak	14	30	Good	Remove
165	Red oak	20	30	Fair	Remove
166	Black cherry	47	41	Poor	Remove
167	Red oak	16	20	Poor	Remove
168	American elm	21	37	Fair	Remove
169	White oak	13	29	Good	Remove
170	Black cherry	19	30	Fair	Remove
171	Black locust	15	0	Dead	Remove - Hazardous
172	Red maple	11	31	Good	Remove
173	Ailanthus	12	24	Fair	Remove - Exempt
174	Ailanthus	12	18	Fair	Remove - Exempt
175	Black locust	17	25	Hazardous	Remove - Hazardous
176	Black locust	20	25	Fair	Remove
177	Black locust	17	24	Hazardous	Remove - Hazardous
178	Black locust	20	0	Dead	Remove - Hazardous
179	Black cherry	14	27	Poor	Remove
180	Black locust	22	32	Hazardous	Remove - Hazardous
181	Ailanthus	17	31	Poor	Remove - Exempt
182	Black locust	20	33	Fair	Remove
183	Black locust	20	28	Poor	Remove
184	Black locust	19	42	Fair	Remove
185	Ailanthus	14	0	Dead	Remove - Exempt
186	Black locust	34	0	Dead	Remove - Hazardous
187	Ailanthus	19	25	Fair	Remove - Exempt
188	Black locust	20	32	Fair	Remove
189	Black locust	20	30	Fair	Remove

APPENDIX B: ATTRIBUTE DATA (CONTINUED)

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
190	Black locust	20	36	Fair	Remove
191	Black locust	15	12	Hazardous	Remove - Hazardous
192	Black locust	15	0	Dead	Remove - Hazardous
193	Black cherry	15	32	Fair	Remove
194	Black locust	18	0	Dead	Remove - Hazardous
195	Black cherry	17	0	Dead	Remove - Hazardous
196	Black locust	19	0	Dead	Remove - Hazardous
197	Black locust	17	25	Fair	Remove
198	Black cherry	11	27	Good	Remove
199	Black locust	15	10	Hazardous	Remove - Hazardous
200	Sugar maple	11	26	Good	Remove
201	Black locust	14	31	Fair	Remove
202	Black cherry	12	26	Fair	Remove
203	Ailanthus	12	31	Good	Remove - Exempt
204	Black locust	20	35	Fair	Remove
205	Black locust	20	28	Fair	Remove
206	Black locust	17	26	Fair	Remove
207	Black locust	28	35	Hazardous	Remove - Hazardous
208	Black locust	13	27	Poor	Remove
209	Black cherry	13	26	Fair	Remove
210	Black locust	14	23	Fair	Remove
211	Ailanthus	13	27	Good	Remove - Exempt
212	Ailanthus	13	26	Good	Remove - Exempt
213	Ailanthus	30	39	Good	Remove - Exempt
214	Scrub oak	21	45	Good	Remove
215	Black locust	12	11	Poor	Remove
216	Ailanthus	12	27	Good	Remove - Exempt
217	Sweetgum	17	32	Good	Remove
218	Black cherry	21	0	Dead	Remove - Hazardous
219	Pin oak	21	35	Fair	Remove
220	Black cherry	16	32	Fair	Remove
221	Red maple	19	35	Good	Remove
222	Black oak	17	35	Fair	Remove
223	Black oak	17	36	Fair	Remove
224	Pin oak	26	60	Fair	Remove
225	White oak	16	25	Poor	Remove
226	Black locust	16	0	Dead	Remove - Hazardous
227	Black cherry	18	36	Fair	Remove
228	Black locust	12	19	Fair	Remove
229	Black gum	14	32	Good	Remove
230	Black gum	12	29	Good	Remove
231	Red oak	19	46	Good	Remove
232	Black cherry	17	0	Dead	Remove - Hazardous
233	Red oak	17	20	Hazardous	Remove - Hazardous
234	Black cherry	17	30	Fair	Remove
235	Black cherry	19	40	Fair	Remove
236	Black cherry	14	30	Good	Remove

APPENDIX B: ATTRIBUTE DATA (CONTINUED)

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
237	Black locust	14	22	Hazardous	Remove - Hazardous
238	Pin oak	12	31	Good	Remove
239	Black cherry	39	51	Poor	Remove
240	Black cherry	12	28	Fair	Remove
241	Black cherry	14	27	Poor	Remove
242	Black locust	15	11	Hazardous	Remove - Hazardous
243	Black birch	13	26	Fair	Remove
244	Tulip poplar	18	31	Poor	Remove
245	Black cherry	14	21	Fair	Remove
246	Black locust	15	0	Dead	Remove - Hazardous
247	Black cherry	14	16	Poor	Remove
248	Black locust	15	36	Good	Remove
249	Black cherry	16	31	Fair	Remove
250	Black locust	18	0	Dead	Remove - Hazardous
251	Black cherry	18	29	Fair	Remove
252	Black cherry	15	24	Fair	Remove
253	Black cherry	24	33	Fair	Remove
254	Black cherry	14	20	Poor	Remove
255	Black cherry	21	47	Fair	Remove
256	Black cherry	28	36	Poor	Remove
257	Black cherry	17	30	Fair	Remove
258	Black cherry	35	48	Fair	Remove
259	Black cherry	35	35	Fair	Remove
260	Black cherry	19	30	Fair	Remove
261	Black cherry	22	33	Fair	Remove
262	Black cherry	28	0	Dead	Remove - Hazardous
263	Paulownia	19	30	Poor	Remove
264	Paulownia	17	25	Fair	Remove
265	Sugar maple	14	33	Fair	Remove
266	Silver maple	13	32	Fair	Remove
267	Silver maple	16	35	Fair	Remove
268	Black locust	16	21	Poor	Remove
269	Black locust	34	50	Good	Remove
270	Black cherry	19	38	Fair	Remove
271	American elm	26	59	Good	Remove
271	Black cherry	26	20	Hazardous	Remove - Hazardous
272	Black cherry	28	0	Dead	Remove - Hazardous
273	Tulip poplar	20	35	Fair	Remove
274	Ailanthus	20	19	Poor	Remove - Exempt
275	Black cherry	17	0	Dead	Remove - Hazardous
276	Black cherry	28	34	Hazardous	Remove - Hazardous
277	Black cherry	15	26	Fair	Remove
278	Silver maple	54	69	Fair	Remove
279	Silver maple	47	62	Fair	Remove
280	Walnut	15	46	Poor	Remove
281	Walnut	18	49	Fair	Remove
282	Ailanthus	17	35	Fair	Remove - Exempt

APPENDIX B: ATTRIBUTE DATA (CONTINUED)

TREE	SPECIES	DBH	CANOPY SPREAD	CONDITION	ACTION
283	Black locust	20	10	Hazardous	Remove - Hazardous
284	Black locust	17	0	Dead	Remove - Hazardous
285	Willow oak	17	37	Fair	Remove
286	Black cherry	23	36	Fair	Remove
287	Black cherry	38	53	Fair	Remove
288	Black cherry	17	32	Fair	Remove
289	Black locust	17	32	Hazardous	Remove - Hazardous
290	Black locust	16	0	Dead	Remove - Hazardous
291	Willow oak	12	24	Fair	Remove
292	Black cherry	24	50	Fair	Remove
293	Black cherry	21	35	Fair	Remove
294	Black cherry	17	29	Poor	Remove
295	Black locust	27	31	Fair	Remove
296	Black locust	17	38	Fair	Remove
297	Mulberry	19	20	Hazardous	Remove - Exempt
298	Black locust	19	34	Good	Remove
299	Black locust	16	0	Dead	Remove - Hazardous
300	Black locust	17	0	Dead	Remove - Hazardous
301	American elm	19	44	Good	Remove
302	American elm	19	0	Dead	Remove - Hazardous
303	American elm	13	0	Dead	Remove - Hazardous
304	Black locust	19	16	Hazardous	Remove - Hazardous
305	Ailanthus	19	40	Good	Remove - Exempt
306	Black locust	17	30	Fair	Remove
307	Ailanthus	26	35	Good	Remove - Exempt
308	Ailanthus	17	30	Fair	Remove - Exempt
309	Black locust	15	22	Poor	Remove
310	Black locust	14	26	Poor	Remove
311	Ailanthus	17	0	Dead	Remove - Exempt
312	Black locust	17	0	Dead	Remove - Hazardous
313	Black cherry	15	11	Hazardous	Remove - Hazardous
314	Chestnut oak	16	41	Good	Remove
315	American elm	12	21	Poor	Remove

Key:

- Remove: trees is in or on the Limit of Disturbance
- Remove – Exempt: Tree is an Exempt species under the DC Tree Bill
- Remove – Hazardous: Tree has been assessed and is either dead or deemed to be structural unsound by an ISA Certified Arborist