

## APPENDIX K — LIDAR ACCURACY ANALYSES

This appendix includes three spreadsheets used for accuracy analyses of three LIDAR datasets with distinctly different characteristics, summarized in Table M.1.

- ◆ Mecklenburg County, NC where the LIDAR post spacing is approximately 16 feet. This is a low resolution dataset.
- ◆ Prince George's County, MD where the LIDAR post spacing is approximately 8 feet. This is a mid resolution dataset.
- ◆ Beaufort County, SC where the LIDAR post spacing is approximately 4 feet. This is a relatively high resolution dataset. (Truly high resolution LIDAR datasets are now being produced with post spacing measured in inches.)

**Table K.1 — Summary of LIDAR Accuracy Statistics**

LIDAR LAG/TBF Accuracy Summary Statistics	Mecklenburg		Prince George's		Beaufort		
	Low Resolution		Mid Resolution		High Resolution		
	LAG		LAG		LAG		TBF
	NoFP	w/FP	NoFP	w/FP	NoFP	w/FP	NoFP
Number of houses	215	215	579	579	27	38	27
Avg (abs) error (ft)	1.22	0.87	0.53	0.80	0.42	0.28	2.93
Minimum error (ft)	-9.39	-4.64	-5.15	-4.28	-1.37	-0.65	-0.19
Maximum error (ft)	9.47	3.63	1.91	2.51	0.27	0.55	3.63
95 <sup>th</sup> Percentile (ft)	3.79	2.82	1.68	2.02	1.09	0.59	3.58

The bare-earth LIDAR datasets for both Mecklenburg and Prince George's Counties had previously been tested as satisfying accuracy standards for 2 ft contours, whereas the LIDAR dataset for Beaufort County had previously been tested as satisfying accuracy standards for 1 ft contours.

ECs were previously available for hundreds of houses for comparison in Mecklenburg and Prince George's Counties, whereas only a few dozen ECs were surveyed in Beaufort County specifically for this study.

For Mecklenburg and Prince George's Counties, Dewberry selected only those houses for which ECs were available and for which CCS had extracted buildings at those locations. CCS' NoFP method failed to identify and extract a significant number of structures, largely because these two LIDAR datasets lacked the high resolution needed for automated building extraction, as reported in CCS' report at APPENDIX J. For Beaufort County, Dewberry utilized all 38 ECs surveyed for this project, and CCS' automated building extraction program failed to identify 11 of 38 buildings. The top of bottom floor statistics in Beaufort County are unimpressive and would probably have been worse if some of these houses had basements.

The Beaufort County dataset demonstrated that, by using the w/FP method (with footprints) and high resolution LIDAR datasets, LAG elevations can be automatically extracted with vertical accuracy of 0.59 ft at the 95% confidence level, i.e., equivalent to 1 ft contours, instead of 2 ft contours assumed herein.

## APPENDIX K — LIDAR ACCURACY ANALYSIS (BEAUFORT COUNTY, SC)

ADDRESS	EC - NAVD88			"NoFP" Method			"w/FP" Method			"NoFP" - EC			"w/FP" - EC	
	TBF	LAG	HAG	LAG	HAG	TBF	LAG	HAG	Δ LAG	Δ HAG	Δ TBF	Δ LAG	Δ HAG	
66 Stable Gate Rd.	12.55	11.98	12.38				11.55	13.48				-0.43	1.10	
36 Stable Gate Rd.	12.62	11.91	12.29	11.46	12.42	15.46	11.41	13.40	-0.45	0.13	2.84	-0.50	1.11	
45 Stable Gate Rd.	15.07	14.76	15.11	14.15	14.86	18.15	14.24	15.79	-0.61	-0.25	3.08	-0.52	0.68	
39 Stable Gate Rd.	14.38	13.46	14.40	13.25	15.21	17.25	13.46	15.17	-0.21	0.81	2.87	0.00	0.77	
67 Stable Gate Rd.	12.57	12.23	12.50				11.93	13.45				-0.30	0.95	
58 Stable Gate Rd.	11.88	11.57	12.07	11.38	12.59	15.38	11.19	13.57	-0.19	0.52	3.50	-0.38	1.50	
57 Stable Gate Rd.	12.39	11.75	12.59	12.02	12.48	16.02	11.78	13.35	0.27	-0.11	3.63	0.03	0.76	
54 Stable Gate Rd.	12.46	11.74	12.34	11.84	13.05	15.84	11.74	12.74	0.10	0.71	3.38	0.00	0.40	
50 Stable Gate Rd.	12.17	11.40	12.40	11.08	13.29	15.08	11.27	13.98	-0.32	0.89	2.91	-0.13	1.58	
34 Stable Gate Rd.	12.00	11.48	11.91	10.90	11.86	14.90	11.21	12.90	-0.58	-0.05	2.90	-0.27	0.99	
44 Stable Gate Rd.	15.39	14.97	15.37	14.78	15.49	18.78	14.76	16.45	-0.19	0.12	3.39	-0.21	1.08	
43 Stable Gate Rd.	15.36	14.90	15.12	14.17	16.13	18.17	14.42	16.17	-0.73	1.01	2.81	-0.48	1.05	
62 Stable Gate Rd.	11.72	11.05	11.39				11.07	12.77				0.02	1.38	
49 Stable Gate Rd.	13.56	12.20	13.50	11.08	13.29	15.08	12.74	14.92	-1.12	-0.21	1.52	0.54	1.42	
47 Stable Gate Rd.	14.67	14.17	14.82	14.10	14.81	18.10	13.71	15.55	-0.07	-0.01	3.43	-0.46	0.73	
52 Stable Gate Rd.	11.87	11.26	11.56	11.21	11.67	15.21	10.96	13.26	-0.05	0.11	3.34	-0.30	1.70	
37 Stable Gate Rd.	13.11	12.31	12.74	11.72	13.93	15.72	12.01	13.16	-0.59	1.19	2.61	-0.30	0.42	
46 Stable Gate Rd.	14.88	14.37	15.00	13.53	15.77	17.56	14.33	15.23	-0.84	0.77	2.68	-0.04	0.23	
70 Stable Gate Rd.	11.95	11.44	11.89				11.42	13.39				-0.02	1.50	
71 Stable Gate Rd.	12.05	11.49	11.79				11.39	12.30				-0.10	0.51	
42 Stable Gate Rd.	15.43	14.93	15.05	13.56	15.27	17.56	14.30	16.09	-1.37	0.22	2.13	-0.63	1.04	
64 Stable Gate Rd.	11.85	11.44	11.90				11.28	12.29				-0.16	0.39	
60 Stable Gate Rd.	11.88	11.37	11.87	10.36	12.07	14.36	11.04	12.69	-1.01	0.20	2.48	-0.33	0.82	
35 Stable Gate Rd.	12.05	11.45	11.86	11.40	11.86	11.86	11.65	12.64	-0.05	0.00	-0.19	0.20	0.78	
38 Stable Gate Rd.	13.33	12.66	13.15	12.31	13.77	16.31	12.22	13.96	-0.35	0.62	2.98	-0.44	0.81	
65 Stable Gate Rd.	12.34	11.88	11.98				11.59	13.32				-0.29	1.34	
63 Stable Gate Rd.	11.78	11.10	11.49				10.97	12.40				-0.13	0.91	
59 Stable Gate Rd.	11.88	11.41	11.77	11.30	12.26	15.30	11.46	12.54	-0.11	0.49	3.42	0.05	0.77	
56 Stable Gate Rd.	12.65	12.03	12.69	12.26	12.72	16.26	11.87	13.60	0.23	0.03	3.61	-0.16	0.91	
55 Stable Gate Rd.	12.47	11.81	12.63	11.84	13.05	15.84	11.65	13.35	0.03	0.42	3.37	-0.16	0.72	
53 Stable Gate Rd.	12.07	11.70	11.78	11.23	12.19	15.23	11.50	13.51	-0.47	0.41	3.16	-0.20	1.73	
48 Stable Gate Rd.	14.03	13.40	14.25	13.53	14.24	17.53	13.41	15.42	0.13	-0.01	3.50	0.01	1.17	
40 Stable Gate Rd.	15.13	14.04	15.14	14.30	15.26	18.30	13.39	15.66	0.26	0.12	3.17	-0.65	0.52	
68 Stable Gate Rd.	12.06	11.95	12.18				11.37	12.54				-0.58	0.36	
69 Stable Gate Rd.	12.07	11.34	12.13				11.56	13.41				0.22	1.28	
61 Stable Gate Rd.	11.74	11.23	11.65	10.47	12.18	14.47	10.85	12.42	-0.76	0.53	2.73	-0.38	0.77	
72 Stable Gate Rd.	12.05	10.94	11.62				11.49	12.67				0.55	1.05	
51 Stable Gate Rd.	11.54	11.12	11.31	10.90	11.36	14.90	10.69	12.01	-0.22	0.05	3.36	-0.43	0.70	
<b>"NoFP" = No Footprint method used by CCS</b>							<b>Average (absolute) Error</b>		(ft)	<b>0.42</b>	<b>0.37</b>	<b>2.93</b>	<b>0.28</b>	<b>0.95</b>
<b>"w/FP" = With Footprint method used by Dewberry</b>							<b>Maximum Error</b>		(ft)	<b>0.27</b>	<b>1.19</b>	<b>3.63</b>	<b>0.55</b>	<b>1.73</b>
<b>Count of buildings surveyed with EC's = 38; all w/footprints</b>							<b>Minimum Error</b>		(ft)	<b>-1.37</b>	<b>-0.25</b>	<b>-0.19</b>	<b>-0.65</b>	<b>0.23</b>
<b>Count of buildings identified by "NoFP" method = 27</b>							<b>95th Percentile Error</b>		(ft)	<b>1.09</b>	<b>0.97</b>	<b>3.58</b>	<b>0.59</b>	<b>1.60</b>

## APPENDIX K — LIDAR ACCURACY ANALYSIS (PRINCE GEORGE'S COUNTY, MD)

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
	4212 Guilford Drive	92.00	93.10	87.70	88.57	93.02	90.57	92.69	-3.43	-1.43	-0.08
4216 Guilford Drive	90.72	92.62	87.02	88.96	92.08	90.58	92.09	-1.76	-0.14	-0.54	-0.53
4220 Guilford Drive	90.06	91.16	85.66	90.27	91.55	89.95	91.84	0.21	-0.11	0.39	0.68
4224 Guilford Drive	90.24	91.24	85.64	89.58	91.58	88.97	90.51	-0.66	-1.27	0.34	-0.73
4300 Hartwick Road	89.39	91.69	85.39	89.55	91.12	89.25	90.94	0.16	-0.14	-0.57	-0.75
4928 College Avenue	46.45	48.10	48.18	46.70	51.05	45.97	48.62	0.25	-0.48	2.95	0.52
5018 College Avenue	45.84	45.97	46.16	45.23	75.66	45.03	48.43	-0.61	-0.81	29.69	2.46
4301 Hartwick Road	87.20	88.20	82.50	85.94	88.41	85.49	88.05	-1.26	-1.71	0.21	-0.15
4227 Guilford Drive	90.96	92.46	86.56	90.96	92.78	90.57	91.81	0.00	-0.39	0.32	-0.65
4302 Guilford Drive	86.29	87.99	81.69	86.11	88.32	85.87	87.50	-0.18	-0.42	0.33	-0.49
4915 Lehigh Road	46.37	47.00	48.08	46.31	49.38	45.21	49.71	-0.06	-1.16	2.38	2.71
4306 Guilford Drive	85.42	86.12	81.02	84.66	86.91	84.38	86.87	-0.76	-1.04	0.79	0.75
5110 College Avenue	43.15	43.67	44.81	42.24	50.04	42.45	45.08	-0.91	-0.70	6.37	1.41
5100 College Avenue	45.49	45.69	45.79	45.17	47.94	44.57	46.00	-0.32	-0.92	2.25	0.31
5001 College Avenue	45.67	46.92	46.80	45.33	49.48	44.97	47.69	-0.34	-0.70	2.56	0.77
7302 Rhode Island Avenue	60.48	61.28	57.58	60.09	61.56	59.53	60.49	-0.39	-0.95	0.28	-0.79
7305 Hopkins Avenue	62.92	63.72	58.02	63.30	63.90	62.88	63.42	0.38	-0.04	0.18	-0.30
5016 Lehigh Road	45.78	45.83	45.72	44.67	47.48	44.53	48.45	-1.11	-1.25	1.65	2.62
4612 Calvert Road	61.50	61.70	58.30	61.40	62.96	60.71	61.14	-0.10	-0.79	1.26	-0.56
4704 Calvert Road	61.94	62.64	57.74	62.06	63.03	61.63	62.65	0.12	-0.31	0.39	0.01
4610 Calvert Road	61.63	62.33	57.03	61.50	62.60	61.24	61.90	-0.13	-0.39	0.27	-0.43
7200 Baltimore Ave. #1	81.19	81.59	82.19	79.02	84.42	78.62	83.77	-2.17	-2.57	2.83	2.18
4708 Calvert Road	59.43	59.73	54.73	61.34	62.44	60.76	61.77	1.91	1.33	2.71	2.04
7200 Baltimore Ave. #2	82.56	82.96	74.96	80.46	87.18	79.61	87.87	-2.10	-2.95	4.22	4.91
4606 1/2 Calvert Road	63.51	64.71	59.71	60.02	64.67	63.07	64.14	-3.49	-0.44	-0.04	-0.57
4800 Calvert Road	61.31	61.41	56.41	61.01	62.70	60.34	60.93	-0.30	-0.97	1.29	-0.48
5103 College Avenue	43.63	44.30	44.63	43.78	48.72	43.42	45.67	0.15	-0.21	4.42	1.37
7200 Baltimore Ave. #3	83.89	85.39	84.59	81.74	85.73	80.38	85.40	-2.15	-3.51	0.34	0.01
5117 College Avenue	43.99	44.28	44.36	43.76	46.35	43.29	44.61	-0.23	-0.70	2.07	0.33
4607 Calvert Road	62.78	64.88	62.28	62.39	63.81	61.98	63.04	-0.39	-0.80	-1.07	-1.84
4611 Calvert Road	60.95	61.95	54.65	60.45	64.80	60.06	62.00	-0.50	-0.89	2.85	0.05
4701 Calvert Road	58.05	58.75	53.45	57.76	60.95	57.53	58.25	-0.29	-0.52	2.20	-0.50
7200 Baltimore Ave. #4	82.23	82.33	82.53	81.09	85.44	79.98	82.81	-1.14	-2.25	3.11	0.48
4605 Calvert Road	64.75	65.65	61.45	63.30	65.36	63.69	64.80	-1.45	-1.06	-0.29	-0.85
4707 Calvert Road	58.45	59.65	55.25	57.38	59.53	57.09	58.54	-1.07	-1.36	-0.12	-1.11
4801 Calvert Road	56.83	57.53	54.33	56.94	57.95	56.45	57.59	0.11	-0.38	0.42	0.06

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4803 Calvert Road	56.86	57.26	53.16	56.61	58.12	56.50	57.18	-0.25	-0.36	0.86	-0.08
4805 Calvert Road	56.63	57.43	53.63	56.38	58.62	55.96	60.27	-0.25	-0.67	1.19	2.84
4809 Calvert Road	55.64	56.64	52.84	55.56	56.98	55.56	58.37	-0.08	-0.08	0.34	1.73
4815 Calvert Road	53.77	56.17	56.37	53.69	59.03	53.65	56.80	-0.08	-0.12	2.86	0.63
4811 Calvert Road	55.38	57.18	52.48	55.39	57.66	55.17	57.06	0.01	-0.21	0.48	-0.12
4616 Harvard Road	62.47	64.37	58.67	62.35	64.19	62.21	62.72	-0.12	-0.26	-0.18	-1.65
4813 Calvert Road	54.15	55.35	55.45	54.12	55.41	53.58	55.49	-0.03	-0.57	0.06	0.14
4700 Harvard Road	58.72	59.92	54.42	59.60	60.48	58.48	59.48	0.88	-0.24	0.56	-0.44
7210 Dartmouth Avenue	57.71	58.61	53.91	57.37	58.86	56.87	58.03	-0.34	-0.84	0.25	-0.58
4702 Harvard Road	57.82	59.12	53.92	58.15	59.42	57.60	59.04	0.33	-0.22	0.30	-0.08
4614 Harvard Road	63.99	64.49	59.39	63.52	67.85	62.55	64.08	-0.47	-1.44	3.36	-0.41
4706 Harvard Road	58.27	58.47	53.77	58.74	58.91	57.81	58.68	0.47	-0.46	0.44	0.21
7201 Baltimore Avenue	70.49	75.49	75.39	71.47	76.22	70.84	75.32	0.98	0.35	0.73	-0.17
4612 Harvard Road	63.48	63.78	59.58	63.76	64.54	63.12	64.23	0.28	-0.36	0.76	0.45
4708 Harvard Road	57.63	58.03	53.83	57.20	58.57	57.36	58.32	-0.43	-0.27	0.54	0.29
4710 Harvard Road	58.77	59.87	53.97	57.99	59.47	57.43	58.23	-0.78	-1.34	-0.40	-1.64
4502 Guilford Road	71.95	72.25	67.35	71.90	73.21	71.30	72.27	-0.05	-0.65	0.96	0.02
4504 Guilford Road	71.05	72.05	68.85	71.18	72.33	70.69	71.24	0.13	-0.36	0.28	-0.81
4506 Guilford Road	70.73	71.33	68.13	70.23	71.73	69.63	71.03	-0.50	-1.10	0.40	-0.30
4610 Harvard Road	64.60	64.70	59.90	64.19	64.78	63.66	64.02	-0.41	-0.94	0.08	-0.68
7209 Dartmouth Avenue	57.50	58.20	52.10	57.20	57.53	56.48	57.14	-0.30	-1.02	-0.67	-1.06
7209 Dartmouth Avenue	57.50	58.20	52.10	56.94	57.57	56.48	57.14	-0.56	-1.02	-0.63	-1.06
4804 Harvard Road	56.51	58.01	52.81	56.94	57.80	55.95	57.30	0.43	-0.56	-0.21	-0.71
7207 Rhode Island Avenue	59.72	59.92	55.32	60.22	60.39	59.47	59.65	0.50	-0.25	0.47	-0.27
4808 Harvard Road	56.41	57.11	51.41	56.38	57.06	56.11	56.83	-0.03	-0.30	-0.05	-0.28
4806 Harvard Road	56.59	57.59	52.19	56.15	57.35	55.62	57.02	-0.44	-0.97	-0.24	-0.57
4703 Harvard Road	59.73	60.13	56.73	59.96	60.88	59.59	60.49	0.23	-0.14	0.75	0.36
4810 Harvard Road	56.02	57.02	51.72	56.51	57.43	56.00	56.64	0.49	-0.02	0.41	-0.38
7208 Bowdoin Avenue	55.37	56.97	50.77	55.40	57.22	54.92	57.30	0.03	-0.45	0.25	0.33
4705 Harvard Road	60.65	62.95	64.45	61.51	62.03	61.07	61.32	0.86	0.42	-0.92	-1.63
4707 Harvard Road	60.47	61.37	56.77	60.32	61.89	60.36	61.64	-0.15	-0.11	0.52	0.27
4608 Guilford Road	63.26	63.66	59.16	63.40	64.42	62.89	63.48	0.14	-0.37	0.76	-0.18
7131 Baltimore Avenue	69.94	74.74	67.74	70.62	76.35	70.20	75.15	0.68	0.26	1.61	0.41
7206 Dartmouth Avenue	60.11	60.11	53.51	59.26	60.31	59.03	59.77	-0.85	-1.08	0.20	-0.34
7110 Baltimore Avenue	74.89	76.79	76.79	76.43	77.57	75.34	76.94	1.54	0.45	0.78	0.15
7207 Dartmouth Avenue	57.31	59.61	53.51	57.37	59.46	57.50	58.40	0.06	0.19	-0.15	-1.21
4503 Guilford Road	70.53	71.03	67.73	70.39	71.80	69.82	70.92	-0.14	-0.71	0.77	-0.11
7206 Bowdoin Avenue	58.85	60.45	54.75	58.35	61.09	57.78	60.44	-0.50	-1.07	0.64	-0.01
4805 Harvard Road	57.13	57.43	52.83	57.52	57.58	56.63	57.28	0.39	-0.50	0.15	-0.15



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	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4505 Guilford Road	69.96	70.66	67.46	69.96	70.84	69.26	69.93	0.00	-0.70	0.18	-0.73
7018 Wake Forest Drive	67.80	68.00	64.40	68.82	69.44	68.16	68.90	1.02	0.36	1.44	0.90
4807 Harvard Road	56.77	56.97	52.77	57.43	57.95	56.89	57.38	0.66	0.12	0.98	0.41
7015 Wake Forest Drive	67.28	67.48	62.98	66.88	68.06	66.51	67.68	-0.40	-0.77	0.58	0.20
4511 Guilford Road	65.96	66.66	61.56	65.31	66.44	64.96	65.75	-0.65	-1.00	-0.22	-0.91
4809 Harvard Road	57.20	57.50	53.20	57.34	57.68	56.97	57.28	0.14	-0.23	0.18	-0.22
4513 Guilford Road	65.66	65.76	61.56	65.60	65.83	64.63	65.25	-0.06	-1.03	0.07	-0.51
4813 Harvard Road	58.08	58.28	53.58	56.35	70.99	57.13	58.92	-1.73	-0.95	12.71	0.64
7125 Baltimore Avenue	68.84	78.94	78.54	69.50	78.51	69.93	78.22	0.66	1.09	-0.43	-0.72
4609 Guilford Road	64.33	64.53	60.03	64.49	64.65	63.56	64.30	0.16	-0.77	0.12	-0.23
7013 Wake Forest Drive	68.15	70.05	64.25	67.77	69.60	67.21	68.48	-0.38	-0.94	-0.45	-1.57
4607 Guilford Road	65.29	65.49	60.39	64.98	66.67	64.40	65.07	-0.31	-0.89	1.18	-0.42
4506 Fordham Lane	70.73	77.73	72.23	71.15	76.97	70.76	76.30	0.42	0.03	-0.76	-1.43
4806 Guilford Road	59.44	60.24	55.64	59.97	60.30	59.40	60.08	0.53	-0.04	0.06	-0.16
5000 51st Street	46.77	47.12	47.32	46.41	49.87	45.63	46.93	-0.36	-1.14	2.75	-0.19
5211 Paint Branch Parkway	44.79	44.79	44.99	43.09	48.99	43.86	46.76	-1.70	-0.93	4.20	1.97
3720 ALLISON ST	21.79	23.09	18.29	22.13	22.86	21.34	22.31	0.34	-0.45	-0.23	-0.78
3714 ALLISON ST	22.50	23.80	18.50	22.28	23.45	21.56	22.65	-0.22	-0.94	-0.35	-1.15
3708 ALLISON ST	22.13	23.13	17.63	21.85	23.15	20.89	22.43	-0.28	-1.24	0.02	-0.70
3704 ALLISON ST	20.19	22.19	17.49	19.92	21.84	19.51	21.54	-0.27	-0.68	-0.35	-0.65
3716 ALLISON ST	22.21	23.71	18.51	22.31	23.38	21.92	22.62	0.10	-0.29	-0.33	-1.09
3702 ALLISON ST	20.01	21.61	17.61	19.26	21.81	19.40	21.79	-0.75	-0.61	0.20	0.18
3606 ALLISON ST	20.14	21.14	21.64	20.28	20.86	19.95	21.05	0.14	-0.19	-0.28	-0.09
3800 ALLISON ST	18.90	23.80	17.10	18.05	23.42	17.81	22.72	-0.85	-1.09	-0.38	-1.08
3602 ALLISON ST	20.92	21.92	16.62	20.51	21.76	19.96	21.13	-0.41	-0.96	-0.16	-0.79
3804 ALLISON ST	18.67	24.02	16.97	19.26	23.49	19.30	23.05	0.59	0.63	-0.53	-0.97
3506 ALLISON ST	20.36	20.66	21.86	20.11	20.99	19.75	20.41	-0.25	-0.61	0.33	-0.25
3600 ALLISON ST	20.88	21.38	16.78	21.02	21.79	19.45	20.93	0.14	-1.43	0.41	-0.45
3502 ALLISON ST	20.07	20.87	14.87	20.25	21.32	19.80	20.49	0.18	-0.27	0.45	-0.38
3808 ALLISON ST	20.53	24.73	18.83	18.57	23.75	18.31	23.38	-1.96	-2.22	-0.98	-1.35
3604 ALLISON ST	21.17	21.77	16.77	20.74	21.23	20.23	21.17	-0.43	-0.94	-0.54	-0.60
3504 ALLISON ST	19.92	20.72	13.82	20.48	20.80	19.99	20.30	0.56	0.07	0.08	-0.42
4603 34TH ST	24.96	25.26	21.06	23.72	26.36	24.29	25.59	-1.24	-0.67	1.10	0.33
3810 ALLISON ST	19.99	23.99	18.99	19.79	24.06	19.58	24.01	-0.20	-0.41	0.07	0.02
3410 ALLISON ST	21.81	22.71	16.81	21.07	22.82	20.55	21.87	-0.74	-1.26	0.11	-0.84
3408 ALLISON ST	21.35	22.45	16.15	21.56	23.05	21.11	22.26	0.21	-0.24	0.60	-0.19
3812 ALLISON ST	20.73	24.38	19.28	19.88	24.64	20.45	24.62	-0.85	-0.28	0.26	0.24
3400 ALLISON ST	22.89	23.59	17.59	22.21	36.05	22.23	22.66	-0.68	-0.66	12.46	-0.93
3814 ALLISON ST	20.85	24.65	19.55	20.52	24.63	20.63	24.45	-0.33	-0.22	-0.02	-0.20

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
3816 ALLISON ST	21.73	24.63	19.73	20.06	24.94	21.16	25.07	-1.67	-0.57	0.31	0.44
3818 ALLISON ST	23.17	26.07	20.67	20.65	25.59	21.56	25.67	-2.52	-1.61	-0.48	-0.40
4601 34TH ST	24.76	24.96	21.06	24.67	25.39	23.22	24.45	-0.09	-1.54	0.43	-0.51
3820 ALLISON ST	23.84	25.64	20.94	22.90	26.31	23.19	25.79	-0.94	-0.65	0.67	0.15
4530 38TH ST	23.02	23.52	18.52	23.53	23.53	22.68	23.12	0.51	-0.34	0.01	-0.40
3705 ALLISON ST	22.40	22.90	19.70	22.57	23.66	21.68	22.45	0.17	-0.72	0.76	-0.45
3707 ALLISON ST	23.12	23.32	18.32	23.07	23.45	22.49	22.67	-0.05	-0.63	0.13	-0.65
3709 ALLISON ST	22.83	23.23	18.53	22.77	23.35	22.36	22.69	-0.06	-0.47	0.12	-0.54
4533 38TH ST	22.13	24.03	19.83	21.98	24.48	22.19	23.54	-0.15	0.06	0.45	-0.49
3701 ALLISON ST	21.77	22.07	22.77	22.31	25.61	21.82	24.85	0.54	0.05	3.54	2.78
3822 ALLISON ST	25.57	26.07	21.07	25.76	26.59	25.27	26.28	0.19	-0.30	0.52	0.21
3603 ALLISON ST	20.27	21.07	15.47	20.51	21.68	20.25	22.69	0.24	-0.02	0.61	1.62
3601 ALLISON ST	20.52	21.32	16.52	20.34	21.64	19.97	20.93	-0.18	-0.55	0.32	-0.39
3507 ALLISON ST	20.38	20.88	16.38	20.57	21.50	20.19	21.20	0.19	-0.19	0.62	0.32
3807 ALLISON ST	24.72	25.72	18.12	25.00	26.61	24.29	25.85	0.28	-0.43	0.89	0.13
3505 ALLISON ST	21.14	21.84	16.24	21.26	21.71	20.66	21.21	0.12	-0.48	-0.13	-0.63
3824 ALLISON ST	24.80	26.10	21.00	24.71	26.08	24.22	25.78	-0.09	-0.58	-0.02	-0.32
3503 ALLISON ST	20.71	21.41	16.01	20.54	21.81	20.00	20.80	-0.17	-0.71	0.40	-0.61
4525 37TH ST	23.20	24.10	19.50	22.21	25.41	22.30	24.57	-0.99	-0.90	1.31	0.47
3417 ALLISON ST	20.97	21.87	15.47	21.13	22.43	20.67	21.45	0.16	-0.30	0.56	-0.42
3409 ALLISON ST	22.06	22.86	18.86	22.31	22.95	21.64	22.61	0.25	-0.42	0.09	-0.25
3413 ALLISON ST	21.77	22.07	16.37	21.89	22.34	20.91	21.74	0.12	-0.86	0.27	-0.33
3407 ALLISON ST	22.24	23.14	19.14	22.80	23.74	21.86	22.78	0.56	-0.38	0.60	-0.36
3809 ALLISON ST	25.88	26.08	21.18	25.76	26.51	25.20	25.98	-0.12	-0.68	0.43	-0.10
3403 ALLISON ST	22.71	23.51	17.41	22.48	23.28	21.95	23.03	-0.23	-0.76	-0.23	-0.48
3811 ALLISON ST	26.56	26.76	21.76	25.76	26.77	25.97	26.43	-0.80	-0.59	0.01	-0.33
3900 ALLISON ST	23.61	25.01	20.31	22.61	25.10	22.77	24.76	-1.00	-0.84	0.09	-0.25
3401 ALLISON ST	23.23	23.43	16.23	23.13	24.05	22.74	23.16	-0.10	-0.49	0.62	-0.27
3813 ALLISON ST	27.18	27.58	22.48	27.46	27.54	25.66	26.55	0.28	-1.52	-0.04	-1.03
4526 38TH ST	22.84	26.64	22.34	22.84	26.70	22.54	25.43	0.00	-0.30	0.06	-1.21
3815 ALLISON ST	26.17	26.47	21.57	27.04	27.22	25.66	26.35	0.87	-0.51	0.75	-0.12
4523 37TH ST	24.47	26.27	22.27	23.53	26.05	22.99	25.80	-0.94	-1.48	-0.22	-0.47
3902 ALLISON ST	22.44	23.44	18.94	22.31	23.98	21.98	23.85	-0.13	-0.46	0.54	0.41
4522 37TH ST	21.53	25.43	18.03	20.70	24.84	21.47	25.37	-0.83	-0.06	-0.59	-0.06
3817 ALLISON ST	26.57	26.77	21.67	26.02	26.71	25.55	26.40	-0.55	-1.02	-0.06	-0.37
4524 38TH ST	26.07	27.07	23.07	26.28	26.86	25.38	26.61	0.21	-0.69	-0.21	-0.46
3819 ALLISON ST	26.22	26.22	21.22	26.09	26.98	25.53	26.20	-0.13	-0.69	0.76	-0.02
3904 ALLISON ST	21.16	23.96	17.66	21.11	22.26	20.58	21.87	-0.05	-0.58	-1.70	-2.09
3821 ALLISON ST	25.89	26.39	21.54	25.92	26.66	25.36	26.05	0.03	-0.53	0.27	-0.34

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4521 37TH ST	26.06	26.16	22.26	25.95	27.21	25.60	26.83	-0.11	-0.46	1.05	0.67
4520 37TH ST	21.71	25.11	19.41	20.70	23.55	20.15	22.85	-1.01	-1.56	-1.56	-2.26
4511 38TH PL	27.20	27.40	22.30	26.94	27.56	25.45	26.15	-0.26	-1.75	0.16	-1.25
4522 38TH ST	26.84	27.44	20.74	27.00	27.35	25.42	26.42	0.16	-1.42	-0.09	-1.02
3908 ALLISON ST	13.79	14.59	14.89	13.78	14.10	13.27	13.85	-0.01	-0.52	-0.49	-0.74
4509 38TH PL	26.26	26.76	25.46	25.86	27.34	25.23	25.94	-0.40	-1.03	0.58	-0.82
4527 34TH ST	23.61	23.81	20.51	23.26	24.52	22.54	23.21	-0.35	-1.07	0.71	-0.60
4519 37TH ST	27.37	27.47	28.37	24.49	28.08	25.35	27.40	-2.88	-2.02	0.61	-0.07
4517 39TH ST	22.97	25.47	19.67	21.23	25.15	22.86	24.95	-1.74	-0.11	-0.32	-0.52
4518 37TH ST	21.00	24.90	18.30	21.14	23.56	20.40	24.18	0.14	-0.60	-1.34	-0.72
4515 39TH ST	24.22	25.47	19.97	24.27	25.54	23.76	25.07	0.05	-0.46	0.07	-0.40
3910 ALLISON ST	14.01	14.51	16.11	14.07	14.07	12.32	13.31	0.06	-1.69	-0.44	-1.20
4510 39TH ST	24.91	25.31	20.51	25.30	26.01	24.64	25.50	0.39	-0.27	0.70	0.19
4506 38TH PL	26.27	26.77	21.77	26.85	27.57	23.90	27.05	0.58	-2.37	0.80	0.28
4507 38TH PL	24.18	25.38	20.18	24.25	25.56	23.53	24.79	0.07	-0.65	0.18	-0.59
4521 38TH ST	26.94	27.14	23.04	27.04	27.42	26.01	27.00	0.10	-0.93	0.28	-0.14
4517 37TH ST	27.47	28.17	22.97	26.94	28.58	25.56	27.52	-0.53	-1.91	0.41	-0.65
3400 WINDOM RD	22.25	23.04	23.54	20.67	27.71	20.18	23.12	-1.58	-2.07	4.67	0.08
3912 ALLISON ST	13.23	13.63	15.33	13.27	14.04	12.27	13.30	0.04	-0.96	0.41	-0.33
4516 37TH ST	20.01	24.71	18.41	20.57	24.35	20.19	24.40	0.56	0.18	-0.36	-0.31
4513 39TH ST	23.75	24.75	19.95	23.82	25.32	22.82	24.91	0.07	-0.93	0.57	0.16
3500 WINDOM RD	22.89	24.29	24.49	21.23	28.44	21.02	23.98	-1.66	-1.87	4.15	-0.31
4504 38TH PL	24.88	25.68	20.38	25.17	26.38	23.68	25.40	0.29	-1.20	0.70	-0.28
4505 38TH PL	23.75	24.25	19.75	24.19	24.72	23.05	24.27	0.44	-0.70	0.47	0.02
4518 38TH ST	26.89	27.69	28.69	26.18	27.66	25.78	26.04	-0.71	-1.11	-0.03	-1.65
4519 38TH ST	26.84	27.64	21.64	26.12	27.57	25.65	26.48	-0.72	-1.19	-0.07	-1.16
3510 WINDOM RD	20.50	21.80	23.50	20.64	24.00	20.36	25.38	0.14	-0.14	2.20	3.58
4514 37TH ST	21.18	25.68	18.88	21.03	23.92	20.87	24.50	-0.15	-0.31	-1.76	-1.18
4523 34TH ST	23.42	23.82	19.12	22.88	23.14	22.13	22.81	-0.54	-1.29	-0.68	-1.01
4513 37TH ST	27.48	27.88	20.88	27.40	29.29	26.05	28.07	-0.08	-1.43	1.41	0.19
3710 WINDOM RD	26.56	26.66	21.86	26.41	26.60	25.77	26.23	-0.15	-0.79	-0.06	-0.43
4502 38TH PL	24.02	24.52	19.72	24.45	25.09	22.90	25.00	0.43	-1.12	0.57	0.48
3712 WINDOM RD	26.54	26.74	27.54	26.68	27.17	25.60	26.20	0.14	-0.94	0.43	-0.54
4506 39TH ST	20.90	21.30	16.30	21.89	22.23	21.07	21.86	0.99	0.17	0.93	0.56
3706 WINDOM RD	28.12	28.42	22.42	22.97	27.93	26.00	26.74	-5.15	-2.12	-0.49	-1.68
4517 38TH ST	25.74	26.84	21.34	24.21	27.30	24.87	25.82	-1.53	-0.87	0.46	-1.02
3702 WINDOM RD	27.00	27.60	22.30	26.68	27.82	25.91	27.33	-0.32	-1.09	0.22	-0.27
4511 39TH ST	17.84	19.64	13.94	17.60	20.30	17.21	19.64	-0.24	-0.63	0.66	0.00
4528 39TH PL	13.13	13.63	15.33	13.45	13.89	11.85	12.96	0.32	-1.28	0.26	-0.67

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	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4512 37TH ST	21.29	25.49	19.29	21.10	24.79	21.53	24.63	-0.19	0.24	-0.70	-0.86
3920 ALLISON ST	14.10	14.50	9.40	13.62	14.49	12.99	13.87	-0.48	-1.11	-0.01	-0.63
4500 38TH PL	23.93	24.03	19.33	24.05	24.76	21.41	24.27	0.12	-2.52	0.73	0.24
3922 ALLISON ST	14.50	14.80	9.80	14.32	15.19	12.98	14.18	-0.18	-1.52	0.39	-0.62
4503 38TH PL	23.28	24.08	18.78	22.51	23.97	21.80	23.00	-0.77	-1.48	-0.11	-1.08
4504 39TH ST	20.66	21.06	16.86	21.19	22.08	19.88	21.25	0.53	-0.78	1.02	0.19
4509 39TH ST	18.23	20.23	14.33	18.34	19.45	17.19	19.20	0.11	-1.04	-0.78	-1.03
4524 39TH PL	13.35	13.70	6.90	12.37	13.69	11.85	13.13	-0.98	-1.50	-0.01	-0.57
3804 WINDOM RD	22.86	23.16	17.96	22.31	22.80	20.23	21.82	-0.55	-2.63	-0.36	-1.34
3711 WINDOM RD	26.97	27.07	20.67	25.95	27.20	25.13	26.54	-1.02	-1.84	0.13	-0.53
4516 38TH ST	26.54	26.84	22.34	26.45	27.13	25.26	26.14	-0.09	-1.28	0.29	-0.70
4507 39TH ST	17.61	19.21	13.61	17.52	19.28	17.05	19.00	-0.09	-0.56	0.07	-0.21
3707 WINDOM RD	27.78	28.18	22.98	27.04	27.57	26.30	27.03	-0.74	-1.48	-0.61	-1.15
4515 38TH ST	24.28	25.18	19.88	22.80	24.91	23.23	24.21	-1.48	-1.05	-0.27	-0.97
3705 WINDOM RD	27.84	27.94	22.94	27.04	27.82	26.58	26.99	-0.80	-1.26	-0.12	-0.95
3703 WINDOM RD	27.22	27.52	22.22	26.09	27.65	25.67	27.07	-1.13	-1.55	0.13	-0.45
4522 39TH PL	13.20	13.30	9.60	13.49	13.97	13.09	13.63	0.29	-0.11	0.67	0.33
3701 WINDOM RD	27.63	27.83	22.83	27.76	28.04	27.14	27.46	0.13	-0.49	0.21	-0.37
4510 37TH ST	24.97	25.77	20.97	23.99	25.67	23.87	25.34	-0.98	-1.10	-0.10	-0.43
3928 ALLISON ST	13.85	15.15	15.15	13.82	14.54	13.26	13.63	-0.03	-0.59	-0.61	-1.52
4525 39TH PL	12.78	12.88	14.48	12.37	12.81	11.80	12.18	-0.41	-0.98	-0.07	-0.70
4500 39TH ST	19.16	19.46	14.46	19.46	20.05	18.40	19.87	0.30	-0.76	0.59	0.41
4514 38TH ST	25.25	26.35	20.15	24.64	26.45	24.14	25.05	-0.61	-1.11	0.10	-1.30
3801 WINDOM RD	22.53	23.78	18.28	23.22	23.97	21.67	23.32	0.69	-0.86	0.19	-0.46
4505 39TH ST	17.55	18.95	12.85	17.98	19.04	17.64	18.48	0.43	0.09	0.09	-0.47
4520 39TH PL	13.74	15.24	8.04	13.85	14.76	13.09	14.46	0.11	-0.65	-0.48	-0.78
3930 ALLISON ST	13.32	13.52	15.17	13.04	13.80	12.56	13.40	-0.28	-0.76	0.28	-0.12
4509 37TH ST	27.74	27.94	23.04	27.82	28.16	27.26	27.65	0.08	-0.48	0.22	-0.29
4512 38TH ST	24.82	25.82	20.12	24.28	25.74	23.54	25.15	-0.54	-1.28	-0.08	-0.67
3803 WINDOM RD	19.18	20.98	23.28	19.06	20.88	18.43	20.31	-0.12	-0.75	-0.10	-0.67
3403 WINDOM RD	21.89	25.89	25.89	21.07	26.34	20.84	25.09	-0.82	-1.05	0.45	-0.80
4503 39TH ST	16.60	17.50	12.80	17.16	18.27	16.88	18.04	0.56	0.28	0.77	0.54
3932 ALLISON ST	14.32	14.82	8.02	13.62	13.84	13.05	13.88	-0.70	-1.27	-0.98	-0.94
3511 WINDOM RD	19.98	24.48	19.28	20.38	24.45	19.66	22.31	0.40	-0.32	-0.03	-2.17
4521 39TH PL	12.79	12.99	11.49	12.50	13.75	12.23	12.90	-0.29	-0.56	0.76	-0.09
4510 38TH ST	24.04	24.64	19.04	23.06	24.54	22.08	24.02	-0.98	-1.96	-0.10	-0.62
4508 37TH ST	21.46	26.06	20.86	20.57	26.67	21.01	26.18	-0.89	-0.45	0.61	0.12
3934 ALLISON ST	13.47	14.07	10.47	12.93	13.86	12.39	13.41	-0.54	-1.08	-0.21	-0.66
4507 37TH ST	28.12	28.22	22.82	27.73	28.80	27.15	27.50	-0.39	-0.97	0.58	-0.72



ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
	4501 39TH ST	17.24	17.64	12.24	17.33	18.28	16.89	17.91	0.09	-0.35	0.64
4509 38TH ST	22.37	22.47	16.67	21.56	22.33	20.99	21.55	-0.81	-1.38	-0.14	-0.92
4519 39TH PL	13.36	14.76	10.36	13.26	14.63	12.68	13.93	-0.10	-0.68	-0.13	-0.83
4516 39TH PL	13.54	14.74	8.94	14.26	14.29	13.27	14.02	0.72	-0.27	-0.45	-0.72
4508 38TH ST	23.61	24.61	18.61	22.97	24.40	21.21	23.85	-0.64	-2.40	-0.21	-0.76
4606 40TH ST	12.18	13.08	9.08	12.37	13.32	12.08	12.15	0.19	-0.10	0.24	-0.93
3923 ALLISON ST	14.31	14.51	10.81	13.47	15.03	12.15	13.02	-0.84	-2.16	0.52	-1.49
4506 37TH ST	25.53	26.93	21.53	24.69	26.96	24.46	26.72	-0.84	-1.07	0.03	-0.21
4517 39TH PL	14.70	15.00	9.50	14.76	14.92	14.00	14.41	0.06	-0.70	-0.08	-0.59
4515 34TH ST	22.35	24.45	18.35	19.72	24.49	19.65	23.25	-2.63	-2.70	0.04	-1.20
4514 39TH PL	13.72	14.42	8.72	14.08	15.05	13.55	13.92	0.36	-0.17	0.63	-0.50
3816 WINDOM RD	13.53	14.53	14.23	14.18	15.16	13.51	14.51	0.65	-0.02	0.63	-0.02
4506 38TH ST	22.97	24.27	18.37	20.70	23.89	20.40	22.50	-2.27	-2.57	-0.38	-1.77
4432 39TH ST	18.26	18.86	13.06	17.49	18.59	17.50	17.94	-0.77	-0.76	-0.27	-0.92
4504 37TH ST	26.25	27.15	21.75	26.45	27.11	25.91	26.72	0.20	-0.34	-0.04	-0.43
3929 ALLISON ST	13.21	13.51	14.01	13.27	14.05	12.83	13.23	0.06	-0.38	0.54	-0.28
4515 39TH PL	14.10	14.20	8.70	14.54	15.08	13.78	14.50	0.44	-0.32	0.88	0.30
4505 38TH ST	21.53	21.83	18.33	21.10	22.08	20.56	20.96	-0.43	-0.97	0.25	-0.87
4600 40TH ST	12.85	12.85	7.05	12.68	12.90	11.70	12.50	-0.17	-1.15	0.05	-0.35
4504 38TH ST	22.08	22.58	17.88	22.21	23.61	21.59	22.54	0.13	-0.49	1.03	-0.04
4503 37TH ST	26.54	28.54	25.24	25.20	27.24	24.69	26.81	-1.34	-1.85	-1.30	-1.73
4511 34TH ST	22.67	23.97	18.67	22.48	24.29	22.27	23.17	-0.19	-0.40	0.32	-0.80
4429 39TH ST	17.79	18.39	13.89	17.85	18.39	17.33	18.31	0.06	-0.46	0.00	-0.08
4503 38TH ST	21.34	21.94	16.74	21.62	22.17	20.65	21.07	0.28	-0.69	0.23	-0.87
4430 39TH ST	18.03	18.33	13.23	17.98	18.83	17.63	18.45	-0.05	-0.40	0.50	0.12
3904 WINDOM RD	13.45	16.35	10.15	14.04	17.17	13.72	16.19	0.59	0.27	0.82	-0.16
4000 ALLISON ST	12.58	12.88	7.08	11.73	12.94	11.71	12.52	-0.85	-0.87	0.06	-0.36
3906 WINDOM RD	12.67	15.67	10.47	12.70	15.18	12.61	14.16	0.03	-0.06	-0.49	-1.51
4006 ALLISON ST	13.13	13.33	11.63	13.21	13.57	12.15	13.15	0.08	-0.98	0.24	-0.18
3714 WEBSTER ST	22.35	22.75	18.25	22.31	22.92	21.51	22.28	-0.04	-0.84	0.17	-0.47
3600 WEBSTER ST	26.03	26.83	21.03	25.79	26.89	25.31	26.36	-0.24	-0.72	0.06	-0.47
4507 34TH ST	23.76	25.06	18.36	23.13	25.05	22.51	23.61	-0.63	-1.25	-0.01	-1.45
3710 WEBSTER ST	24.07	24.67	21.37	24.23	25.64	23.45	24.91	0.16	-0.62	0.97	0.24
3700 WEBSTER ST	25.79	26.99	22.49	25.82	27.18	25.18	25.69	0.03	-0.61	0.19	-1.30
3708 WEBSTER ST	24.98	25.38	21.98	25.17	25.86	24.59	25.53	0.19	-0.39	0.48	0.15
4501 38TH ST	21.22	21.62	16.02	21.30	21.75	20.74	21.33	0.08	-0.48	0.13	-0.29
4428 39TH ST	18.57	18.77	14.17	18.15	18.88	17.69	18.88	-0.42	-0.88	0.11	0.11
3908 WINDOM RD	12.10	14.95	10.70	12.11	15.22	11.98	14.25	0.01	-0.12	0.27	-0.70
4427 39TH ST	18.00	18.30	14.20	17.97	18.96	17.28	18.71	-0.03	-0.72	0.66	0.41

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
3606 WEBSTER ST	26.21	26.61	20.51	26.12	26.75	25.91	26.16	-0.09	-0.30	0.14	-0.45
3702 WEBSTER ST	25.59	25.99	21.59	26.08	26.34	25.25	25.69	0.49	-0.34	0.35	-0.30
3608 WEBSTER ST	26.41	27.01	21.01	26.22	27.16	25.69	26.07	-0.19	-0.72	0.15	-0.94
3604 WEBSTER ST	26.32	26.92	22.22	26.35	26.99	25.73	26.24	0.03	-0.59	0.07	-0.68
3508 WEBSTER ST	25.92	26.72	23.22	25.49	27.20	25.43	26.78	-0.43	-0.49	0.48	0.06
3504 WEBSTER ST	25.23	26.13	22.43	26.32	27.52	25.02	25.85	1.09	-0.21	1.39	-0.28
3704 WEBSTER ST	25.22	25.32	21.32	24.77	25.55	24.91	25.28	-0.45	-0.31	0.23	-0.04
4528 40TH ST	12.05	13.25	8.65	12.14	12.94	11.65	12.37	0.09	-0.40	-0.31	-0.88
4507 39TH PL	15.42	17.42	12.62	15.46	16.05	14.90	15.44	0.04	-0.52	-1.37	-1.98
3500 WEBSTER ST	25.74	26.54	21.34	25.59	28.68	25.83	26.91	-0.15	0.09	2.14	0.37
3914 WINDOM RD	12.80	13.80	11.10	12.94	13.98	11.95	13.33	0.14	-0.85	0.18	-0.47
3412 WEBSTER ST	24.07	26.07	21.57	22.84	25.91	23.95	25.60	-1.23	-0.12	-0.16	-0.47
4417 38TH ST	20.93	21.13	18.63	20.97	22.09	20.47	21.42	0.04	-0.46	0.96	0.29
4010 ALLISON ST	11.87	12.47	7.17	12.77	13.29	12.22	12.94	0.90	0.35	0.82	0.47
3901 WINDOM RD	16.16	16.46	12.46	15.42	15.96	14.85	15.55	-0.74	-1.31	-0.50	-0.91
4531 40TH ST	12.49	13.09	13.59	11.32	13.03	10.06	11.16	-1.17	-2.43	-0.06	-1.93
4425 39TH ST	17.71	18.31	13.71	17.69	19.22	17.44	18.76	-0.02	-0.27	0.91	0.45
4503 34TH ST	23.49	25.29	19.99	23.10	25.41	22.58	23.87	-0.39	-0.91	0.12	-1.42
4526 40TH ST	12.16	12.66	14.66	11.95	12.72	11.69	12.21	-0.21	-0.47	0.06	-0.45
3408 WEBSTER ST	22.68	24.18	21.18	23.13	24.09	22.54	24.05	0.45	-0.14	-0.09	-0.13
3916 WINDOM RD	11.35	14.35	8.25	11.73	13.20	10.98	12.66	0.38	-0.37	-1.15	-1.69
4505 39TH PL	16.02	17.12	12.72	15.78	16.21	15.20	15.86	-0.24	-0.82	-0.91	-1.26
3400 WEBSTER ST	23.76	24.36	20.06	24.18	25.08	23.21	23.72	0.42	-0.55	0.72	-0.64
4003 ALLISON ST	12.01	12.31	7.01	11.70	12.22	11.17	11.50	-0.31	-0.84	-0.09	-0.81
3404 WEBSTER ST	22.88	23.88	20.18	23.23	24.04	23.04	23.47	0.35	0.16	0.16	-0.41
3903 WINDOM RD	15.46	16.26	12.46	14.86	15.62	14.39	15.33	-0.60	-1.07	-0.64	-0.93
4012 ALLISON ST	12.79	13.49	7.49	13.21	13.76	12.37	13.03	0.42	-0.42	0.27	-0.46
3905 WINDOM RD	15.38	16.53	12.58	15.76	15.78	14.99	15.31	0.38	-0.39	-0.75	-1.22
4412 38TH ST	23.39	23.89	19.59	23.10	24.67	23.00	24.37	-0.29	-0.39	0.78	0.48
3709 WEBSTER ST	24.57	24.77	20.07	24.15	25.36	23.79	24.91	-0.42	-0.78	0.59	0.14
4007 ALLISON ST	11.32	11.52	6.12	11.81	12.81	11.22	11.91	0.49	-0.10	1.29	0.39
4420 39TH ST	21.58	21.78	17.58	21.05	21.79	20.47	21.51	-0.53	-1.11	0.01	-0.27
4503 39TH PL	16.01	16.31	12.91	15.78	16.75	15.27	16.43	-0.23	-0.74	0.44	0.12
4014 ALLISON ST	11.28	11.58	7.28	12.50	13.59	12.19	13.02	1.22	0.91	2.01	1.44
3907 WINDOM RD	15.67	16.17	12.17	15.03	15.73	14.59	15.13	-0.64	-1.08	-0.44	-1.04
3701 WEBSTER ST	25.66	26.26	22.06	25.53	26.41	25.36	25.82	-0.13	-0.30	0.15	-0.44
3705 WEBSTER ST	23.94	24.34	19.44	24.51	24.89	23.98	24.54	0.57	0.04	0.55	0.20
3703 WEBSTER ST	25.20	25.40	19.40	24.95	25.41	24.50	25.11	-0.25	-0.70	0.01	-0.29
3707 WEBSTER ST	24.34	24.44	21.64	24.51	24.97	24.03	24.38	0.17	-0.31	0.53	-0.06

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
3609 WEBSTER ST	26.45	26.55	19.65	26.41	27.08	25.57	26.45	-0.04	-0.88	0.53	-0.10
4423 39TH ST	17.90	18.40	13.70	18.18	21.59	17.97	19.91	0.28	0.07	3.19	1.51
4009 ALLISON ST	12.04	12.34	14.34	12.31	12.82	11.77	12.32	0.27	-0.27	0.48	-0.02
4016 ALLISON ST	12.17	12.47	8.27	12.62	13.99	12.01	13.25	0.45	-0.16	1.52	0.78
3607 WEBSTER ST	27.05	27.25	20.05	25.86	26.30	25.51	26.17	-1.19	-1.54	-0.95	-1.08
4410 38TH ST	24.12	25.52	19.92	23.72	24.87	23.38	24.77	-0.40	-0.74	-0.65	-0.75
3911 WINDOM RD	13.93	14.43	11.33	13.78	14.70	13.69	14.56	-0.15	-0.24	0.27	0.13
4501 39TH PL	16.61	17.86	17.31	17.09	18.29	16.51	18.31	0.48	-0.10	0.43	0.45
3913 WINDOM RD	14.28	15.88	11.38	13.95	15.09	13.33	13.87	-0.33	-0.95	-0.79	-2.01
3904 WALLACE RD	16.71	19.71	13.51	17.13	19.12	16.57	19.11	0.42	-0.14	-0.59	-0.60
3906 WALLACE RD	17.12	20.42	13.82	16.14	19.69	16.20	19.47	-0.98	-0.92	-0.73	-0.95
4413 38TH ST	21.10	23.30	19.10	21.12	23.74	20.95	22.94	0.02	-0.15	0.44	-0.36
3915 WINDOM RD	13.69	15.19	11.19	13.03	13.87	12.69	13.73	-0.66	-1.00	-1.32	-1.46
3413 WEBSTER ST	26.79	26.99	20.69	25.99	27.58	25.62	27.58	-0.80	-1.17	0.59	0.59
4418 39TH ST	23.01	23.21	19.51	22.31	23.48	21.57	23.15	-0.70	-1.44	0.27	-0.06
4408 38TH ST	24.87	25.47	20.17	24.63	25.55	24.37	25.23	-0.24	-0.50	0.08	-0.24
3401 WEBSTER ST	24.50	24.80	20.30	23.36	24.66	22.64	23.75	-1.14	-1.86	-0.14	-1.05
3908 WALLACE RD	16.78	21.08	14.88	16.86	19.95	16.48	20.49	0.08	-0.30	-1.13	-0.59
3409 WEBSTER ST	25.67	26.17	21.37	25.86	26.34	25.04	25.47	0.19	-0.63	0.17	-0.70
3407 WEBSTER ST	25.16	25.46	22.16	25.33	25.53	24.52	25.21	0.17	-0.64	0.07	-0.25
4411 38TH ST	23.01	25.41	20.61	21.69	25.19	21.39	23.86	-1.32	-1.62	-0.22	-1.55
3910 WALLACE RD	16.57	20.07	14.07	16.41	20.05	15.91	19.97	-0.16	-0.66	-0.02	-0.10
4417 34TH ST	25.04	27.04	20.94	24.51	26.84	23.86	25.61	-0.53	-1.18	-0.20	-1.43
4419 39TH ST	22.94	23.34	18.14	21.83	23.12	21.32	22.92	-1.11	-1.62	-0.22	-0.42
3912 WALLACE RD	15.89	19.69	13.59	16.84	19.66	16.36	19.21	0.95	0.47	-0.03	-0.48
4406 38TH ST	26.07	27.07	23.47	24.28	26.47	23.60	25.93	-1.79	-2.47	-0.60	-1.14
4518 40TH ST	13.79	14.69	9.79	13.63	14.65	13.22	14.26	-0.16	-0.57	-0.04	-0.43
4545 BANNER ST	16.11	16.21	15.01	16.36	16.64	15.14	15.93	0.25	-0.97	0.43	-0.28
3706 VOLTA ST	25.06	25.46	20.26	21.92	26.27	20.78	25.44	-3.14	-4.28	0.81	-0.02
4409 38TH ST	23.51	25.81	21.51	23.36	26.14	22.59	25.49	-0.15	-0.92	0.33	-0.32
3914 WALLACE RD	15.56	19.66	12.96	16.08	18.53	15.97	18.80	0.52	0.41	-1.13	-0.86
4409 37TH ST	25.88	26.78	22.28	25.59	27.06	24.86	26.63	-0.29	-1.02	0.28	-0.15
3916 WALLACE RD	14.70	18.30	12.80	14.59	18.85	14.89	18.37	-0.11	0.19	0.55	0.07
4516 40TH ST	14.54	14.84	8.24	14.47	14.79	13.63	14.76	-0.07	-0.91	-0.05	-0.08
4548 41ST AVE	15.66	16.66	9.76	15.81	16.89	15.29	16.16	0.15	-0.37	0.23	-0.50
4413 34TH ST	27.08	30.08	24.18	26.38	29.35	26.40	29.19	-0.70	-0.68	-0.73	-0.89
4404 38TH ST	26.67	26.77	22.97	26.54	26.93	24.19	26.43	-0.13	-2.48	0.16	-0.34
4414 39TH ST	22.85	23.55	19.25	22.41	23.78	22.06	23.51	-0.44	-0.79	0.23	-0.04
4417 39TH ST	23.09	23.39	18.69	22.13	24.47	22.80	24.27	-0.96	-0.29	1.08	0.88

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4415 39TH PL	24.63	24.93	21.43	24.08	25.88	23.51	25.26	-0.55	-1.12	0.95	0.33
4540 BANNER ST	15.54	15.64	12.84	15.14	15.82	13.73	14.84	-0.40	-1.81	0.18	-0.80
3918 WALLACE RD	15.34	18.84	11.54	15.00	18.93	14.36	18.04	-0.34	-0.98	0.09	-0.80
4407 38TH ST	24.93	25.93	19.73	25.59	26.09	24.33	25.79	0.66	-0.60	0.16	-0.14
4541 BANNER ST	16.10	16.30	17.80	16.09	16.61	14.88	16.10	-0.01	-1.22	0.31	-0.20
3909 WALLACE RD	25.09	25.89	19.79	24.12	25.75	23.81	25.01	-0.97	-1.28	-0.14	-0.88
4407 37TH ST	25.76	26.66	21.56	24.90	27.35	24.69	26.24	-0.86	-1.07	0.69	-0.42
4514 40TH ST	15.10	17.00	12.40	14.64	17.29	14.36	17.33	-0.46	-0.74	0.29	0.33
4415 39TH ST	24.58	25.18	27.28	24.22	25.45	23.82	24.88	-0.36	-0.76	0.27	-0.30
3904 WEBSTER ST	24.08	24.58	21.98	23.03	24.53	22.70	23.75	-1.05	-1.38	-0.05	-0.83
4412 39TH ST	22.56	24.06	19.26	22.31	23.78	22.02	23.76	-0.25	-0.54	-0.28	-0.30
4400 38TH ST	26.25	26.45	21.35	24.28	26.24	24.13	25.92	-1.97	-2.12	-0.21	-0.53
4600 RHODE ISLAND AVE	14.25	14.35	14.35	13.86	18.75	13.37	14.44	-0.39	-0.88	4.40	0.09
4536 BANNER ST	14.68	15.98	10.08	15.09	16.10	15.28	15.51	0.41	0.60	0.12	-0.47
4544 41ST AVE	15.50	16.10	9.60	15.86	16.68	15.15	15.87	0.36	-0.35	0.58	-0.23
4405 37TH ST	26.23	27.73	20.63	24.90	27.26	24.37	26.40	-1.33	-1.86	-0.47	-1.33
4539 BANNER ST	16.45	16.75	15.75	15.67	16.68	15.28	15.92	-0.78	-1.17	-0.07	-0.83
3906 WEBSTER ST	23.33	23.63	19.93	23.20	24.24	22.51	22.98	-0.13	-0.82	0.61	-0.65
4413 39TH ST	25.16	25.46	27.56	25.17	25.61	24.54	25.43	0.01	-0.62	0.15	-0.03
3915 WALLACE RD	26.31	27.26	20.96	25.13	26.71	24.52	25.33	-1.18	-1.79	-0.55	-1.93
4535 BANNER ST	16.10	16.20	17.40	16.39	16.89	14.92	16.28	0.29	-1.18	0.69	0.08
4410 39TH ST	24.06	24.66	20.26	23.82	24.90	23.42	24.50	-0.24	-0.64	0.24	-0.16
4509 CHURCH ST	16.50	17.70	13.20	15.62	17.89	15.42	16.75	-0.88	-1.08	0.19	-0.95
4532 BANNER ST	16.45	17.25	11.75	14.57	16.31	14.03	15.65	-1.88	-2.42	-0.94	-1.60
4403 38TH ST	25.97	27.47	23.67	25.40	26.66	25.01	25.63	-0.57	-0.96	-0.81	-1.84
3908 WEBSTER ST	23.93	24.53	19.83	23.91	24.24	23.20	24.36	-0.02	-0.73	-0.29	-0.17
4512 40TH ST	19.70	24.00	18.90	20.61	23.55	19.67	23.81	0.91	-0.03	-0.45	-0.19
4533 BANNER ST	16.75	17.05	11.95	15.93	17.57	15.28	16.42	-0.82	-1.47	0.52	-0.63
3910 WEBSTER ST	24.73	25.33	20.33	24.38	25.34	23.96	24.75	-0.35	-0.77	0.01	-0.58
4540 41ST AVE	15.64	15.84	12.24	15.86	16.76	15.15	15.77	0.22	-0.49	0.92	-0.07
4411 39TH ST	25.28	25.48	19.58	25.20	26.25	24.83	25.89	-0.08	-0.45	0.77	0.41
4408 39TH ST	24.29	24.59	19.49	24.77	24.97	24.14	24.72	0.48	-0.15	0.38	0.13
3704 VARNUM ST	25.70	27.00	21.40	25.79	26.25	25.33	25.86	0.09	-0.37	-0.75	-1.14
3706 VARNUM ST	26.53	27.33	20.83	25.49	26.81	25.57	27.64	-1.04	-0.96	-0.52	0.31
4530 BANNER ST	16.33	16.93	12.13	16.21	16.62	15.35	16.18	-0.12	-0.98	-0.31	-0.75
3702 VARNUM ST	25.48	27.18	21.38	24.95	26.55	24.14	25.97	-0.53	-1.34	-0.63	-1.21
3712 VARNUM ST	26.39	26.89	20.89	25.92	26.77	25.54	26.42	-0.47	-0.85	-0.12	-0.47
4401 38TH ST	26.21	26.71	22.51	25.40	26.37	24.38	25.90	-0.81	-1.83	-0.34	-0.81
4507 CHURCH ST	17.73	17.73	17.73	16.80	17.90	15.67	17.36	-0.93	-2.06	0.17	-0.37



ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4510 40TH ST	22.00	23.90	17.50	22.61	24.83	21.86	24.47	0.61	-0.14	0.93	0.57
4531 BANNER ST	16.36	16.86	16.96	16.24	18.33	15.70	17.29	-0.12	-0.66	1.47	0.43
4005 WALLACE RD	16.87	17.47	11.07	17.10	18.42	16.56	17.64	0.23	-0.31	0.95	0.17
4401 37TH ST	26.17	27.27	21.67	26.15	27.75	25.53	26.46	-0.02	-0.64	0.48	-0.81
3912 WEBSTER ST	25.85	26.85	21.35	25.95	26.90	24.55	24.96	0.10	-1.30	0.05	-1.89
3901 WEBSTER ST	25.69	26.39	19.69	23.62	25.57	22.44	23.28	-2.07	-3.25	-0.82	-3.11
4526 BANNER ST	16.27	16.37	17.97	16.51	16.57	15.63	15.97	0.24	-0.64	0.20	-0.40
4406 39TH ST	25.63	25.73	19.73	24.77	24.91	23.80	24.22	-0.86	-1.83	-0.82	-1.51
4508 40TH ST	24.36	25.96	19.96	23.92	25.35	23.15	24.48	-0.44	-1.21	-0.61	-1.48
3914 WEBSTER ST	25.21	25.61	20.21	25.56	25.98	24.97	25.74	0.35	-0.24	0.37	0.13
4529 BANNER ST	17.84	18.04	15.54	17.59	18.44	16.71	17.64	-0.25	-1.13	0.40	-0.40
3800 VOLTA AVE	24.93	25.53	21.73	24.31	25.49	23.44	25.01	-0.62	-1.49	-0.04	-0.52
4522 BANNER ST	15.91	16.21	10.21	16.19	16.62	15.26	16.01	0.28	-0.65	0.41	-0.20
4536 41ST AVE	15.95	16.45	9.75	15.80	16.20	15.29	16.02	-0.15	-0.66	-0.25	-0.43
4009 WALLACE RD	17.38	18.28	18.78	17.00	20.00	15.84	17.20	-0.38	-1.54	1.72	-1.08
3916 WEBSTER ST	25.79	26.39	23.29	25.89	26.64	24.98	25.47	0.10	-0.81	0.25	-0.92
4511 40TH ST	16.89	18.89	14.89	17.29	18.26	16.10	17.94	0.40	-0.79	-0.63	-0.95
3905 WEBSTER ST	24.35	24.95	19.05	23.53	25.15	24.00	24.56	-0.82	-0.35	0.20	-0.39
4407 39TH ST	25.33	25.83	19.63	25.89	26.34	24.51	25.02	0.56	-0.82	0.51	-0.81
3711 VARNUM ST	25.72	25.72	18.72	25.76	27.17	25.01	25.43	0.04	-0.71	1.45	-0.29
3715 VARNUM ST	25.76	26.56	22.56	25.17	26.84	24.27	25.02	-0.59	-1.49	0.28	-1.54
3707 VARNUM ST	26.69	26.79	28.49	26.05	27.48	25.68	26.57	-0.64	-1.01	0.69	-0.22
4518 BANNER ST	15.89	16.09	17.69	16.11	16.37	15.55	15.88	0.22	-0.34	0.28	-0.21
4534 41ST AVE	15.59	15.99	9.69	16.03	16.11	15.59	15.76	0.44	0.00	0.12	-0.23
3918 WEBSTER ST	25.80	26.45	23.10	25.63	26.21	24.80	25.31	-0.17	-1.00	-0.24	-1.14
4529 41ST AVE	15.14	15.34	17.14	14.78	15.82	14.42	15.11	-0.36	-0.72	0.48	-0.23
3701 VARNUM ST	27.08	27.78	28.18	27.23	27.99	26.45	26.98	0.15	-0.63	0.21	-0.80
3709 VARNUM ST	26.19	26.69	21.99	26.09	26.46	25.48	25.80	-0.10	-0.71	-0.23	-0.89
4509 40TH ST	16.81	19.51	12.31	16.44	19.39	16.92	18.86	-0.37	0.11	-0.12	-0.65
4525 BANNER ST	16.43	16.63	18.53	16.67	17.17	16.22	17.03	0.24	-0.21	0.54	0.40
3705 VARNUM ST	26.78	26.88	19.98	26.97	27.22	26.25	26.96	0.19	-0.53	0.34	0.08
4405 39TH ST	24.33	24.63	20.03	24.45	26.05	24.05	24.85	0.12	-0.28	1.42	0.22
4402 39TH ST	24.68	24.78	19.98	24.25	25.12	23.50	23.87	-0.43	-1.18	0.34	-0.91
3909 WEBSTER ST	24.71	25.61	19.81	24.90	25.86	24.42	25.19	0.19	-0.29	0.25	-0.42
4507 40TH ST	18.58	20.78	19.48	18.80	20.51	18.18	20.21	0.22	-0.40	-0.27	-0.57
4528 41ST AVE	16.53	17.43	12.43	16.81	17.69	16.10	17.33	0.28	-0.43	0.26	-0.10
4308 38TH ST	26.31	26.41	22.11	26.28	26.67	24.38	25.08	-0.03	-1.93	0.26	-1.33
4505 40TH ST	19.76	22.41	15.66	19.39	22.25	19.71	21.54	-0.37	-0.05	-0.16	-0.87
3911 WEBSTER ST	25.63	25.93	21.33	25.79	26.43	24.90	25.54	0.16	-0.73	0.50	-0.39

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
	4521 BANNER ST	16.68	17.08	11.38	16.64	17.07	16.20	16.46	-0.04	-0.48	-0.01
4403 39TH ST	24.11	24.31	19.11	24.31	24.74	23.71	24.14	0.20	-0.40	0.43	-0.17
4400 39TH ST	24.36	24.46	20.26	24.23	24.70	22.46	23.37	-0.13	-1.90	0.24	-1.09
4525 41ST AVE	15.86	16.36	12.06	15.57	16.34	15.06	15.43	-0.29	-0.80	-0.02	-0.93
4012 WEBSTER ST	17.20	17.90	18.00	17.06	19.31	16.03	18.40	-0.14	-1.17	1.41	0.50
4503 40TH ST	20.33	23.83	17.23	19.88	23.73	19.96	22.21	-0.45	-0.37	-0.10	-1.62
4523 41ST AVE	14.96	16.21	10.21	15.47	15.96	14.89	15.41	0.51	-0.07	-0.25	-0.80
4306 38TH ST	25.05	25.35	20.65	25.72	26.05	24.43	25.18	0.67	-0.62	0.70	-0.17
4401 39TH ST	24.34	25.34	19.04	24.94	25.92	23.79	24.31	0.60	-0.55	0.58	-1.03
4501 40TH ST	22.32	24.52	21.12	19.90	24.61	20.96	22.34	-2.42	-1.36	0.09	-2.18
4519 BANNER ST	17.02	17.22	12.72	16.60	17.29	16.10	16.47	-0.42	-0.92	0.07	-0.75
4412 40TH ST	25.20	25.90	21.00	25.52	26.15	24.45	25.18	0.32	-0.75	0.25	-0.72
4303 38TH ST	21.92	24.62	17.32	22.77	24.18	21.75	23.73	0.85	-0.17	-0.44	-0.89
4519 41ST AVE	15.65	16.35	13.55	15.69	16.90	14.98	16.55	0.04	-0.67	0.55	0.20
4516 41ST AVE	16.87	17.52	18.87	17.29	17.90	16.78	17.40	0.42	-0.09	0.38	-0.12
4508 BANNER ST	18.95	19.45	14.65	16.74	18.92	17.14	17.94	-2.21	-1.81	-0.53	-1.51
3902 VOLTA AVE	22.44	24.34	19.04	23.35	25.11	22.72	24.57	0.91	0.28	0.77	0.23
4001 WEBSTER ST	22.82	23.62	25.02	22.76	23.90	22.41	23.67	-0.06	-0.41	0.28	0.05
4506 BANNER ST	18.99	19.39	15.09	19.13	19.40	17.51	18.02	0.14	-1.48	0.01	-1.37
3812 UPSHUR ST	21.73	21.93	16.33	22.15	22.47	21.59	21.81	0.42	-0.14	0.54	-0.12
4406 40TH ST	24.36	24.76	18.56	24.61	25.36	24.13	24.67	0.25	-0.23	0.60	-0.09
4005 WEBSTER ST	19.59	19.69	19.89	19.60	20.37	19.10	19.49	0.01	-0.49	0.68	-0.20
3810 UPSHUR ST	21.99	22.39	16.49	21.95	23.01	20.73	21.84	-0.04	-1.26	0.62	-0.55
3704 UPSHUR ST	23.27	23.87	17.27	23.40	23.85	22.84	23.41	0.13	-0.43	-0.02	-0.46
3806 UPSHUR ST	23.20	24.90	22.90	22.67	23.91	21.94	22.23	-0.53	-1.26	-0.99	-2.67
4404 40TH ST	24.48	24.68	19.28	24.61	25.48	24.19	24.50	0.13	-0.29	0.80	-0.18
3802 UPSHUR ST	22.25	22.95	16.75	22.57	23.28	21.78	22.11	0.32	-0.47	0.33	-0.84
3808 UPSHUR ST	22.55	22.55	16.65	22.84	23.46	21.38	21.93	0.29	-1.17	0.91	-0.62
4009 WEBSTER ST	18.99	19.19	19.69	19.24	19.76	18.64	19.21	0.25	-0.35	0.57	0.02
3708 UPSHUR ST	22.93	23.73	19.23	23.43	23.84	22.35	22.77	0.50	-0.58	0.11	-0.96
4504 BANNER ST	18.88	19.08	21.18	18.51	19.69	17.96	18.44	-0.37	-0.92	0.61	-0.64
3702 UPSHUR ST	25.87	26.27	22.87	23.49	26.09	22.87	24.32	-2.38	-3.00	-0.18	-1.95
3700 UPSHUR ST	24.68	25.48	19.98	25.53	25.53	24.55	25.21	0.85	-0.13	0.05	-0.27
4013 WEBSTER ST	19.40	19.50	20.10	19.16	19.59	18.63	19.21	-0.24	-0.77	0.09	-0.29
4508 41ST AVE	22.69	23.39	24.39	21.87	22.72	21.35	22.23	-0.82	-1.34	-0.67	-1.16
4017 WEBSTER ST	19.50	19.50	20.60	18.62	19.54	18.57	19.40	-0.88	-0.93	0.04	-0.10
4514 RHODE ISLAND AVE	19.78	22.38	15.38	20.10	21.87	19.71	20.56	0.32	-0.07	-0.51	-1.82
4503 BANNER ST	20.33	20.63	23.63	19.21	23.27	18.65	22.93	-1.12	-1.68	2.64	2.30
4513 41ST AVE	20.38	20.58	21.58	19.20	25.55	18.93	20.88	-1.18	-1.45	4.97	0.30

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4409 40TH ST	21.51	23.21	19.71	22.24	24.60	21.86	22.99	0.73	0.35	1.39	-0.22
4402 40TH ST	24.96	25.06	19.56	25.23	25.60	23.84	24.20	0.27	-1.12	0.54	-0.86
4506 41ST AVE	22.88	23.58	25.68	22.80	23.36	22.28	22.73	-0.08	-0.60	-0.22	-0.85
4512 RHODE ISLAND AVE	22.42	24.12	20.62	22.53	23.62	20.70	21.11	0.11	-1.72	-0.50	-3.01
4023 WEBSTER ST	17.34	17.54	12.24	18.01	18.81	17.68	18.20	0.67	0.34	1.27	0.66
4519 RHODE ISLAND AVE	18.77	20.77	20.87	19.70	22.17	18.45	20.88	0.93	-0.32	1.40	0.11
4407 40TH ST	21.43	23.73	20.03	21.05	24.47	20.85	23.51	-0.38	-0.58	0.74	-0.22
4030 WEBSTER ST	22.41	22.61	17.91	20.73	23.98	19.06	22.24	-1.68	-3.35	1.37	-0.37
3707 UPSHUR ST	22.55	23.25	20.85	22.97	23.92	22.18	22.75	0.42	-0.37	0.67	-0.50
4504 41ST AVE	23.41	23.71	17.91	22.87	23.38	22.37	22.78	-0.54	-1.04	-0.33	-0.93
3705 UPSHUR ST	22.06	23.16	16.66	22.87	23.49	22.31	22.52	0.81	0.25	0.33	-0.64
3703 UPSHUR ST	22.44	23.34	17.14	23.33	23.86	22.32	22.97	0.89	-0.12	0.52	-0.37
3706 UTAH AVE	23.43	23.63	18.93	23.49	24.23	22.96	23.73	0.06	-0.47	0.60	0.10
4405 40TH ST	21.12	22.42	16.12	20.93	23.45	20.47	23.03	-0.19	-0.65	1.03	0.61
4323 39TH PL	22.55	23.35	23.55	22.87	23.47	22.47	23.06	0.32	-0.08	0.12	-0.29
4508 RHODE ISLAND AVE	24.17	26.47	22.07	22.29	29.93	21.87	23.38	-1.88	-2.30	3.46	-3.09
4511 RHODE ISLAND AVE	19.53	19.83	20.13	17.90	25.01	17.42	22.42	-1.63	-2.11	5.18	2.59
4004 VOLTA AVE	19.18	19.31	19.81	18.51	22.10	17.42	18.98	-0.67	-1.76	2.79	-0.33
4321 39TH PL	22.70	22.90	23.40	22.74	23.13	22.05	22.91	0.04	-0.65	0.23	0.01
4401 40TH ST	22.41	23.61	19.01	23.45	24.02	21.07	22.93	1.04	-1.34	0.41	-0.68
4324 40TH ST	24.27	24.87	18.37	23.79	25.36	22.91	23.25	-0.48	-1.36	0.49	-1.62
4031 WEBSTER ST	20.90	21.00	17.90	20.90	21.67	20.27	21.67	0.00	-0.63	0.67	0.67
4501 41ST AVE	23.13	23.23	25.43	23.47	23.90	22.92	23.65	0.34	-0.21	0.67	0.42
4033 WEBSTER ST	21.25	22.35	18.25	21.90	23.53	21.83	22.94	0.65	0.58	1.18	0.59
4319 39TH PL	24.06	24.56	21.06	22.54	24.50	22.19	23.11	-1.52	-1.87	-0.06	-1.45
3712 UTAH AVE	23.16	25.24	25.76	22.67	26.47	21.94	23.50	-0.49	-1.22	1.23	-1.74
4035 WEBSTER ST	23.23	23.53	18.83	23.79	24.28	22.69	23.45	0.56	-0.54	0.75	-0.08
4322 40TH ST	24.52	25.22	20.72	24.20	25.66	23.53	24.09	-0.32	-0.99	0.44	-1.13
4300 39TH PL	22.90	23.20	15.40	23.40	24.10	22.63	23.44	0.50	-0.27	0.90	0.24
4102 WEBSTER ST	23.69	23.79	24.49	23.87	25.02	22.63	23.96	0.18	-1.06	1.23	0.17
4037 WEBSTER ST	24.41	25.11	22.71	23.62	24.89	23.11	23.81	-0.79	-1.30	-0.22	-1.30
4317 39TH PL	24.13	24.93	21.13	23.92	24.84	22.81	23.57	-0.21	-1.32	-0.09	-1.36
4010 VOLTA AVE	19.06	19.41	19.24	18.67	27.83	18.20	19.38	-0.39	-0.86	8.42	-0.03
4323 40TH ST	22.87	23.87	17.17	22.42	24.09	21.96	22.84	-0.45	-0.91	0.22	-1.03
3716 UTAH AVE	23.87	23.97	19.37	22.97	25.35	22.62	22.90	-0.90	-1.25	1.38	-1.07
4318 40TH ST	24.58	24.68	20.78	25.04	25.10	23.94	24.23	0.46	-0.64	0.42	-0.45
3708 TILDEN ST	26.32	27.62	24.32	26.48	28.40	25.84	27.72	0.16	-0.48	0.78	0.10
4315 39TH PL	22.97	23.37	16.17	22.15	23.75	22.83	23.20	-0.82	-0.14	0.38	-0.17
3710 TILDEN ST	25.84	26.44	22.04	26.28	26.75	25.51	26.24	0.44	-0.33	0.31	-0.20

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
4319 40TH ST	19.71	23.71	18.01	21.49	23.82	21.23	23.29	1.78	1.52	0.11	-0.42
4313 39TH PL	22.94	23.14	16.34	23.40	24.24	22.96	23.60	0.46	0.02	1.10	0.46
4316 40TH ST	24.06	24.76	18.06	23.99	24.91	23.79	24.18	-0.07	-0.27	0.15	-0.58
4018 VOLTA AVE	19.98	24.26	24.50	18.21	36.40	17.91	24.67	-1.77	-2.07	12.14	0.41
4314 40TH ST	24.61	25.01	20.81	24.84	25.33	24.09	24.36	0.23	-0.52	0.32	-0.65
4309 39TH PL	24.14	24.14	17.14	24.31	25.19	23.77	24.33	0.17	-0.37	1.05	0.19
4315 40TH ST	22.14	22.84	17.34	22.44	23.88	21.31	22.71	0.30	-0.83	1.04	-0.13
4326 40TH PL	18.69	18.89	13.19	19.23	19.58	18.25	19.07	0.54	-0.44	0.69	0.18
3713 TILDEN ST	24.20	24.70	17.50	24.35	25.60	23.65	24.07	0.15	-0.55	0.90	-0.63
3711 TILDEN ST	24.79	25.29	30.09	24.77	25.92	24.29	25.11	-0.02	-0.50	0.63	-0.18
4312 40TH ST	24.84	25.14	21.94	22.80	25.16	24.17	24.44	-2.04	-0.67	0.02	-0.70
4307 39TH PL	24.31	24.51	19.71	25.00	25.48	23.46	24.34	0.69	-0.85	0.97	-0.17
3709 TILDEN ST	25.15	25.55	22.15	25.76	25.93	25.15	25.65	0.61	0.00	0.38	0.10
3707 TILDEN ST	26.75	26.85	20.85	26.31	27.46	25.51	27.09	-0.44	-1.24	0.61	0.24
4313 40TH ST	22.47	24.17	18.77	23.72	24.33	22.48	23.59	1.25	0.01	0.16	-0.58
4305 39TH PL	25.15	25.55	21.95	21.69	25.63	23.63	24.56	-3.46	-1.52	0.08	-0.99
4324 40TH PL	18.81	19.11	21.81	19.06	20.10	18.63	19.20	0.25	-0.18	0.99	0.09
4310 40TH ST	24.74	24.94	20.94	24.94	25.38	24.26	24.39	0.20	-0.48	0.44	-0.55
4016 VOLTA AVE	18.96	19.96	14.76	18.54	19.88	18.65	19.39	-0.42	-0.31	-0.08	-0.57
4311 40TH ST	23.25	23.75	18.65	23.13	25.02	22.42	23.80	-0.12	-0.83	1.27	0.05
4322 40TH PL	19.41	19.61	21.51	19.75	20.69	19.21	19.62	0.34	-0.20	1.08	0.01
3904 UTAH AVE	24.59	24.69	17.69	23.98	25.55	23.32	24.59	-0.61	-1.27	0.86	-0.10
4307 40TH ST	22.76	23.56	17.76	23.69	24.78	22.68	23.84	0.93	-0.08	1.22	0.28
4306 40TH ST	24.35	24.65	18.85	24.74	25.13	23.57	24.08	0.39	-0.78	0.48	-0.57
4325 40TH PL	20.05	20.25	13.65	19.88	20.66	19.38	19.81	-0.17	-0.67	0.41	-0.44
4318 40TH PL	19.06	19.66	13.06	19.92	20.42	19.56	19.86	0.86	0.50	0.76	0.20
4304 40TH ST	23.86	24.26	18.26	23.76	24.42	23.20	23.94	-0.10	-0.66	0.16	-0.32
4316 40TH PL	20.16	20.66	13.86	20.08	20.36	19.52	20.07	-0.08	-0.64	-0.30	-0.59
4305 40TH ST	22.72	24.22	20.02	22.97	23.84	22.23	22.57	0.25	-0.49	-0.38	-1.65
4321 40TH PL	19.61	20.11	13.11	19.49	20.36	19.01	19.60	-0.12	-0.60	0.25	-0.51
3800 TAYLOR ST	23.71	24.31	18.51	24.08	24.83	23.51	24.53	0.37	-0.20	0.52	0.22
3716 TAYLOR ST	24.80	25.50	19.40	24.94	25.80	24.30	25.06	0.14	-0.50	0.30	-0.44
3712 TAYLOR ST	25.68	25.98	20.78	25.76	26.62	25.10	26.48	0.08	-0.58	0.64	0.50
4314 40TH PL	19.63	19.73	13.43	20.34	20.46	19.64	20.11	0.71	0.01	0.73	0.38
3710 TAYLOR ST	26.78	27.48	19.98	26.77	27.83	25.84	27.02	-0.01	-0.94	0.35	-0.46
4300 40TH ST	23.31	24.21	19.81	23.89	24.27	22.24	23.50	0.58	-1.07	0.06	-0.71
4319 40TH PL	19.69	19.69	13.09	19.49	20.46	19.00	19.75	-0.20	-0.69	0.77	0.06
4301 40TH ST	23.29	23.59	18.29	23.17	23.44	22.46	22.96	-0.12	-0.83	-0.15	-0.63
4312 40TH PL	19.66	19.86	13.76	20.05	20.98	19.77	20.04	0.39	0.11	1.12	0.18



ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG		
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	
4317 40TH PL	19.27	19.57	13.47	19.95	20.02	19.19	19.71	0.68	-0.08	0.45	0.14	
4000 UTAH AVE	23.05	23.35	18.25	23.13	23.81	22.12	22.38	0.08	-0.93	0.46	-0.97	
3809 TAYLOR ST	23.43	23.83	26.53	24.45	24.65	23.58	23.87	1.02	0.15	0.82	0.04	
3807 TAYLOR ST	24.13	24.23	18.23	24.25	25.46	23.46	24.25	0.12	-0.67	1.23	0.02	
3803 TAYLOR ST	24.43	25.13	19.23	24.87	25.46	23.95	24.70	0.44	-0.48	0.33	-0.43	
4315 40TH PL	19.44	19.84	13.44	19.43	20.36	19.00	19.65	-0.01	-0.44	0.52	-0.19	
3801 TAYLOR ST	25.49	25.99	19.09	25.30	26.13	24.46	25.79	-0.19	-1.03	0.14	-0.20	
3903 UTAH AVE	23.60	23.60	18.00	23.82	24.20	22.74	23.43	0.22	-0.86	0.60	-0.17	
3905 UTAH AVE	23.43	23.53	18.13	23.53	24.16	22.24	23.37	0.10	-1.19	0.63	-0.16	
3717 TAYLOR ST	26.91	27.01	20.71	26.91	27.99	26.19	26.99	0.00	-0.72	0.98	-0.02	
3715 TAYLOR ST	28.76	28.76	24.76	27.56	29.27	26.74	28.07	-1.20	-2.02	0.51	-0.69	
4004 UTAH AVE	22.55	22.65	19.45	21.82	24.01	21.05	21.89	-0.73	-1.50	1.36	-0.76	
4311 40TH PL	19.57	19.77	13.77	20.38	20.83	19.72	19.96	0.81	0.15	1.06	0.19	
4304 40TH PL	20.63	20.73	14.03	20.05	21.93	20.47	20.73	-0.58	-0.16	1.20	0.00	
4309 40TH PL	19.66	19.76	13.46	19.98	20.76	19.73	19.94	0.32	0.07	1.00	0.18	
4120 40TH ST	24.08	24.68	19.48	24.28	24.76	22.73	23.84	0.20	-1.35	0.08	-0.84	
4005 UTAH AVE	22.17	22.47	19.97	22.02	23.86	21.90	22.94	-0.15	-0.27	1.39	0.47	
4007 UTAH AVE	22.14	22.14	16.94	21.95	22.66	21.76	22.53	-0.19	-0.38	0.52	0.39	
4305 40TH PL	19.80	20.10	13.90	20.70	21.17	19.92	20.47	0.90	0.12	1.07	0.37	
4118 40TH ST	23.50	23.60	17.20	24.54	24.93	22.81	23.72	1.04	-0.69	1.33	0.12	
4009 UTAH AVE	21.80	21.80	16.30	21.95	22.72	21.74	21.94	0.15	-0.06	0.92	0.14	
4117 40TH ST	22.96	23.06	19.46	23.59	24.04	23.03	23.55	0.63	0.07	0.98	0.49	
4303 40TH PL	20.75	20.85	14.45	20.70	21.43	20.10	20.96	-0.05	-0.65	0.58	0.11	
4011 UTAH AVE	21.81	22.11	17.31	21.62	22.71	21.08	21.75	-0.19	-0.73	0.60	-0.36	
4116 40TH ST	23.24	23.54	17.24	24.18	24.51	23.67	24.12	0.94	0.43	0.97	0.58	
4301 40TH PL	20.62	21.02	24.72	21.10	22.64	20.78	21.88	0.48	0.16	1.62	0.86	
4115 40TH ST	23.12	23.82	19.42	23.85	24.21	22.91	23.37	0.73	-0.21	0.39	-0.45	
4013 UTAH AVE	21.24	21.84	15.54	21.33	21.75	20.85	21.57	0.09	-0.39	-0.09	-0.27	
4300 RHODE ISLAND AVE	19.58	33.51	34.11	20.93	33.55	22.09	32.12	1.35	2.51	0.04	-1.39	
4114 40TH ST	24.44	24.54	17.64	24.62	25.22	24.12	24.60	0.18	-0.32	0.68	0.06	
4113 40TH ST	23.57	23.87	19.17	22.87	24.02	22.46	23.23	-0.70	-1.11	0.15	-0.64	
4015 UTAH AVE	22.49	22.59	18.89	22.77	23.84	21.81	24.51	0.28	-0.68	1.25	1.92	
4112 40TH ST	24.41	24.51	17.81	24.90	25.19	24.09	24.97	0.49	-0.32	0.68	0.46	
4017 UTAH AVE	22.49	22.99	19.19	23.20	23.88	22.53	23.76	0.71	0.04	0.89	0.77	
4019 UTAH AVE	23.00	23.50	18.80	24.25	29.93	22.98	23.87	1.25	-0.02	6.43	0.37	
4110 40TH ST	24.00	24.50	17.30	24.67	25.12	24.30	24.81	0.67	0.30	0.62	0.31	
<b>"NoFP" means no building footprints are available; "w/FP" means footprints are available.</b>								<b>Average (absolute) (ft)</b>	<b>0.53</b>	<b>0.80</b>	<b>0.77</b>	<b>0.65</b>
<b>"NoFP" method automatically identifies buildings before determining LAG and HAG</b>								<b>Standard Deviation (ft)</b>	<b>0.57</b>	<b>0.61</b>	<b>1.71</b>	<b>0.60</b>
<b>"w/FP" method relies on building footprints provided by the county; this gives</b>								<b>Maximum Error (ft)</b>	<b>1.91</b>	<b>2.51</b>	<b>29.69</b>	<b>4.91</b>

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)	"NoFP" - EC (ft)	"w/FP" - EC (ft)
<p>the "w/FP" method a natural advantage over the "NoFP" method, but this "w/FP" (with footprints) method won't work without footprints</p> <p>Some outliers appear to be mis-identified or perhaps result from errors in the Elevation Certificates.</p> <p>For these reasons, true errors are probably smaller than shown in the summary table.</p> <p>For the "NoFP" method, CCS identified 4842 of 6492 (74.6%) of the known buildings with footprints; only 579 of these 4842 buildings had EC's for comparison with one-to-one relationships; some others had one-to-many or many-to-one relationships</p> <p>Because the LIDAR point spacing in PG County is approximately 8 ft, these results are better than in Mecklenburg County where the LIDAR point spacing is 16 ft.</p>	Minimum Error (ft)		-5.15	-4.28	-1.76	-3.11					
	Count of houses		579	579	579	579					
	95th Percentile Error (ft)		1.68	2.02	2.40	1.82					
	90th Percentile Error (ft)		1.11	1.54	1.34	1.44					
	85th Percentile Error (ft)		0.82	1.19	0.91	0.95					
			"NoFP" LAG	"w/FP" LAG	"NoFP" HAG	"w/FP" HAG					

## APPENDIX K — LIDAR ACCURACY ANALYSIS (MECKLENBURG COUNTY, NC)

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	NoFP - EC (ft)	w/FP - EC (ft)	NoFP - EC (ft)	w/FP - EC (ft)
	15700 DELANCEY LN	726.80	729.30	730.60	730.38	730.38	728.86	730.58	3.58	2.06	1.08
15701 DELANCEY LN	722.90	725.40	726.50	724.59	727.11	724.26	726.99	1.69	1.36	1.71	1.59
15808 DOYERS DR	725.40	731.00	732.00	725.00	729.27	724.86	731.34	-0.40	-0.54	-1.73	0.34
4112 BLENHEIN RD	705.10	705.90	708.00	705.51	706.67	705.29	707.14	0.41	0.19	0.77	1.24
4117 BLENHEIN RD	701.30	703.80	705.20	702.02	702.72	701.39	703.15	0.72	0.09	-1.08	-0.65
4115 BLENHEIN RD	701.20	702.50	704.90	702.01	702.61	701.31	703.00	0.81	0.11	0.11	0.50
2631 CELIA AV	669.90	674.40	674.40	670.72	673.80	669.84	673.90	0.82	-0.06	-0.60	-0.50
4015 BARLOWE RD	697.20	698.20	698.90	697.35	697.80	696.19	697.98	0.15	-1.01	-0.40	-0.22
2720 DUNDEEN ST	672.50	673.70	673.70	672.92	673.35	671.68	673.58	0.42	-0.82	-0.35	-0.12
1420 DEAN ST	0.00	667.70	669.30	663.30	667.79	661.83	667.93			0.09	0.23
1412 DEAN ST	662.80	664.90	666.70	663.94	664.69	663.05	665.75	1.14	0.25	-0.21	0.85
1314 DEAN ST	658.40	660.00	662.00	659.27	659.70	658.87	660.79	0.87	0.47	-0.30	0.79
1300 DEAN ST	0.00	659.60	661.60	657.93	658.69	657.84	659.23			-0.91	-0.37
1236 DEAN ST	658.10	658.60	661.30	658.43	658.43	657.72	659.00	0.33	-0.38	-0.17	0.40
1505 N DAVIDSON ST	672.30	674.10	676.00	672.03	672.87	671.07	673.82	-0.27	-1.23	-1.23	-0.28
624 E 18TH ST	671.70	672.70	673.30	671.43	672.11	670.82	672.69	-0.27	-0.88	-0.59	-0.01
3030 DUNLAVIN WY	676.00	677.60	679.00	675.78	678.10	675.72	677.71	-0.22	-0.28	0.50	0.11
3108 DUNLAVIN WY	678.20	679.00	681.10	678.47	679.12	677.66	679.18	0.27	-0.54	0.12	0.18
2612 COMMON WEALTH	651.50	653.60	653.90	652.50	654.03	651.54	653.19	1.00	0.04	0.43	-0.41
2628 COMMON WEALTH	652.10	656.80	657.60	654.36	655.18	652.64	656.31	2.26	0.54	-1.62	-0.49
2629 CHESTERFIELD AV	661.60	662.80	664.00	665.32	665.85	661.42	663.17	3.72	-0.18	3.05	0.37
2633 CHESTERFIELD AV	659.20	660.50	662.30	660.05	661.92	659.61	661.60	0.85	0.41	1.42	1.10
2637 CHESTERFIELD AV	656.80	658.10	660.40	658.02	658.83	657.36	659.04	1.22	0.56	0.73	0.94
2616 CHESTERFIELD AV	661.70	663.40	665.00	665.97	666.51	662.08	663.51	4.27	0.38	3.11	0.11
2645 CHESTERFIELD AV	652.70	654.50	655.60	651.14	655.35	652.13	655.23	-1.56	-0.57	0.85	0.73
2624 CHESTERFIELD AV	657.60	659.70	660.50	658.90	659.45	658.15	659.65	1.30	0.55	-0.25	-0.05
2625 BAY ST	658.10	664.70	658.20	660.22	663.10	658.43	663.20	2.12	0.33	-1.60	-1.50
2637 BAY ST	654.40	663.00	654.60	654.99	661.85	652.39	659.48	0.59	-2.01	-1.15	-3.52
315 FANNIE CR	634.10	636.00	637.30	642.04	642.59	633.19	635.18	7.94	-0.91	6.59	-0.82
309 FANNIE CR	634.10	637.70	638.40	634.40	635.36	633.12	635.72	0.30	-0.98	-2.34	-1.98
1900 EAST BV	622.80	628.80	622.90	623.87	627.87	622.72	628.75	1.07	-0.08	-0.93	-0.05
2314 BRANDON CR	624.10	626.80	633.80	622.23	626.17	623.78	626.28	-1.87	-0.32	-0.63	-0.52
4936 CHARMAPEG AV	671.90	677.40	672.00	673.04	678.38	673.38	678.49	1.14	1.48	0.98	1.09
3010 CHENANGO DR	618.50	620.00	622.80	620.52	621.30	619.67	620.49	2.02	1.17	1.30	0.49
2201 ARROWCREEK DR	576.70	577.40	577.50	576.14	577.64	576.51	578.27	-0.56	-0.19	0.24	0.87

ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	NoFP - EC (ft)	w/FP - EC (ft)	NoFP - EC (ft)	w/FP - EC (ft)
	7516 CORNWALLIS LN	574.30	577.40	577.90	574.02	575.15	573.78	577.35	-0.28	-0.52	-2.25
7522 CORNWALLIS LN	573.30	575.00	577.70	574.31	574.31	573.02	575.31	1.01	-0.28	-0.69	0.31
6701 CHOPPY WOOD CR	567.00	568.50	570.30	565.05	569.85	564.01	568.14	-1.95	-2.99	1.35	-0.36
7001 COOL SPRINGS LN	568.30	571.30	572.30	569.28	571.72	568.16	571.98	0.98	-0.14	0.42	0.68
12616 DOWNS RD	541.80	542.30	543.70	541.08	541.27	540.19	541.99	-0.72	-1.61	-1.03	-0.31
7003 BEVINGTON WOODS L	542.40	543.30	543.30	542.45	542.54	542.06	543.53	0.05	-0.34	-0.76	0.23
7005 BEVINGTON HOLLOW	539.70	544.00	547.20	540.72	542.33	539.29	544.84	1.02	-0.41	-1.67	0.84
7000 BEVINGTON HOLLOW	542.20	542.90	543.50	541.11	542.14	540.88	542.98	-1.09	-1.32	-0.76	0.08
7002 BEVINGTON HOLLOW	543.20	543.50	543.60	543.06	543.06	542.14	542.83	-0.14	-1.06	-0.44	-0.67
7006 BEVINGTON HOLLOW	543.60	543.90	544.00	543.39	543.59	541.94	543.32	-0.21	-1.66	-0.31	-0.58
9412 FELDBANK DR	740.60	743.30	745.10	743.39	743.39	743.14	743.94	2.79	2.54	0.09	0.64
9400 FELDBANK DR	740.20	742.30	744.60	742.50	742.55	742.48	743.44	2.30	2.28	0.25	1.14
9301 FELDBANK DR	737.30	740.30	742.90	740.69	740.93	740.25	741.92	3.39	2.95	0.63	1.62
9300 FELDBANK DR	736.80	738.30	740.50	738.61	738.61	738.09	738.78	1.81	1.29	0.31	0.48
9213 FELDBANK DR	737.50	740.90	742.90	740.54	741.15	740.52	741.46	3.04	3.02	0.25	0.56
9207 FELDBANK DR	737.50	740.40	743.00	741.26	741.81	740.47	742.49	3.76	2.97	1.41	2.09
401 KENTBROOK DR	718.20	719.30	720.50	718.13	718.79	716.92	720.36	-0.07	-1.28	-0.51	1.06
1116 GREENLEAF AV	649.50	652.10	655.00	650.05	651.83	649.19	652.40	0.55	-0.31	-0.27	0.30
1112 GREENLEAF AV	651.10	653.20	656.10	651.60	653.00	650.77	653.55	0.50	-0.33	-0.20	0.35
1117 GREENLEAF AV	644.90	649.10	650.90	645.23	648.40	645.35	649.11	0.33	0.45	-0.70	0.01
1306 W MOREHEAD ST	646.10	646.70	646.80	646.21	646.24	645.42	646.50	0.11	-0.68	-0.46	-0.20
1331 W MOREHEAD	647.80	647.80	648.30	647.20	654.41	646.80	648.74	-0.60	-1.00	6.61	0.94
1937 MERRIMAN AV	622.60	626.60	628.50	623.66	624.90	623.87	626.14	1.06	1.27	-1.70	-0.46
434 S INDEPENDENCE BV	640.30	641.30	641.50	641.16	641.16	640.20	641.23	0.86	-0.10	-0.14	-0.07
1109 MORNINGSIDE DR	655.20	657.10	656.00	656.33	656.40	655.73	658.02	1.13	0.53	-0.70	0.92
524 LORNA ST	659.00	664.00	659.00	665.04	666.01	659.92	664.88	6.04	0.92	2.01	0.88
1168 S KINGS DR	631.30	637.30	631.30	640.77	646.74	629.87	637.67	9.47	-1.43	9.44	0.37
1226 S KINGS DR	632.60	639.40	640.70	634.39	637.74	634.80	638.32	1.79	2.20	-1.66	-1.08
1632 LOMBARDY CR	630.10	632.80	633.30	626.73	631.70	628.96	632.56	-3.37	-1.14	-1.10	-0.24
2128 LOMBARDY CR	624.20	630.00	632.10	624.50	627.88	624.42	629.98	0.30	0.22	-2.12	-0.02
2917 HANSON DR	621.30	628.10	624.30	620.87	622.35	620.27	622.35	-0.43	-1.03	-5.75	-5.75
2010 MYERLY PL	618.30	633.30	627.10	616.75	629.62	617.48	630.68	-1.55	-0.82	-3.68	-2.62
6429 MOUNTING ROCK RD	585.70	586.40	586.80	584.80	586.49	584.89	586.21	-0.90	-0.81	0.09	-0.19
6432 MOUNTING ROCK RD	586.80	588.00	588.20	586.68	588.26	586.07	588.19	-0.12	-0.73	0.26	0.19
2613 LANDING VIEW LN	567.70	568.70	571.00	567.37	569.04	566.64	569.07	-0.33	-1.06	0.34	0.37
6733 KIRKSTALL CT	562.00	564.70	565.00	560.05	565.10	561.78	566.57	-1.95	-0.22	0.40	1.87
2106 LONGLEAF DR	566.40	570.30	568.30	566.92	566.92	566.26	566.65	0.52	-0.14	-3.38	-3.65



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	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	NoFP - EC (ft)	w/FP - EC (ft)	NoFP - EC (ft)	w/FP - EC (ft)
	2113 LONGLEAF DR	561.40	561.60	564.30	565.85	565.85	565.03	565.65	4.45	3.63	4.25
2205 LONGLEAF DR	565.90	566.30	568.30	565.52	565.52	565.29	566.64	-0.38	-0.61	-0.78	0.34
2219 LONGLEAF DR	566.10	566.30	568.40	565.98	565.98	565.40	565.86	-0.12	-0.70	-0.32	-0.44
720 MAIN ST	541.10	541.10	543.00	541.73	541.73	540.34	541.66	0.63	-0.76	0.63	0.56
702 MAIN ST	540.70	540.70	542.60	541.24	541.24	540.45	541.33	0.54	-0.25	0.54	0.63
9920 LEITNER DR	557.00	557.50	557.40	555.75	556.94	554.63	557.12	-1.25	-2.37	-0.56	-0.38
8100 KAPPLEWOOD CT	538.60	539.20	539.30	539.61	539.69	539.25	539.74	1.01	0.65	0.49	0.54
8101 KAPPLEWOOD CT	538.20	538.60	539.20	539.08	539.08	538.16	539.33	0.88	-0.04	0.48	0.73
4421 N TRYON ST	717.30	717.30	718.00	716.16	717.16	716.23	717.52	-1.14	-1.07	-0.14	0.22
4410 N TRYON ST	709.30	710.30	710.10	710.53	710.53	709.61	710.68	1.23	0.31	0.23	0.38
3300 RITCH AV	696.90	700.70	702.00	698.12	699.91	695.78	700.11	1.22	-1.12	-0.79	-0.59
2726 N TRYON ST	698.30	698.90	699.00	694.47	697.90	697.56	698.44	-3.83	-0.74	-1.00	-0.46
608 WOODRUFF PL	646.10	649.80	651.60	644.95	648.38	646.63	649.65	-1.15	0.53	-1.42	-0.15
614 WOODRUFF PL	648.30	651.60	653.10	649.47	650.39	648.91	651.47	1.17	0.61	-1.21	-0.13
1016 WESTBROOK DR	651.20	653.90	655.60	651.19	653.08	650.73	653.81	-0.01	-0.47	-0.82	-0.09
811 S SUMMIT AV	644.20	645.30	644.80	644.24	644.69	643.70	647.40	0.04	-0.50	-0.61	2.10
1233 SPRUCE ST	624.80	626.70	628.00	625.49	625.94	624.60	627.16	0.69	-0.20	-0.76	0.46
2625 SHENANDOAH AV	660.80	661.00	663.00	662.44	662.44	660.32	662.04	1.64	-0.48	1.44	1.04
2629 SHENANDOAH AV	658.70	659.50	662.40	658.12	660.53	657.12	661.34	-0.58	-1.58	1.03	1.84
2633 SHENANDOAH AV	656.90	658.20	660.30	660.23	661.05	656.88	659.45	3.33	-0.02	2.85	1.25
1201 TARRINGTON AV	699.60	699.70	701.80	699.87	699.87	699.01	699.91	0.27	-0.59	0.17	0.21
1123 TARRINGTON AV	698.20	698.70	701.10	697.81	698.72	697.25	699.09	-0.39	-0.95	0.02	0.39
5742 OLD MEADOW RD	700.80	702.40	702.80	699.97	702.30	701.75	702.67	-0.83	0.95	-0.10	0.27
5800 OLD MEADOW RD	701.20	703.20	703.50	702.89	702.92	702.14	703.57	1.69	0.94	-0.28	0.37
6207 RIVERTON CT	698.30	700.80	701.40	699.02	700.92	700.08	701.55	0.72	1.78	0.12	0.75
2365 SHARON RD	624.80	629.50	630.10	626.47	629.01	625.37	629.49	1.67	0.57	-0.49	-0.01
327 SARDIS POINTE RD	632.60	636.20	637.50	634.01	636.11	633.47	635.78	1.41	0.87	-0.09	-0.42
9314 TIMBERLINE RD	565.30	566.00	568.50	565.86	565.86	564.84	566.21	0.56	-0.46	-0.14	0.21
9320 TIMBERLINE RD	566.70	567.20	568.70	564.53	567.01	565.47	567.15	-2.17	-1.23	-0.19	-0.05
9313 TIMBERLINE RD	565.50	566.60	568.50	565.97	565.97	565.50	565.96	0.47	0.00	-0.63	-0.64
1715 REVERDY OAKS DR	587.60	596.80	597.60	587.85	594.62	587.36	595.04	0.25	-0.24	-2.18	-1.76
314 N POLK ST	560.30	560.30	560.40	559.10	559.86	558.98	559.88	-1.20	-1.32	-0.44	-0.42
306 POLK ST	560.70	561.80	562.10	562.40	562.40	561.55	562.24	1.70	0.85	0.60	0.44
9835 PINEVILLE MATTHEWS	557.30	557.80	557.70	556.72	557.26	555.33	557.94	-0.58	-1.97	-0.54	0.14
9609 STANTON GREEN CT	543.70	545.30	546.00	543.63	545.09	542.60	545.19	-0.07	-1.10	-0.21	-0.11
6633 LYNFIELD DR	666.60	668.90	671.40	668.24	668.66	667.55	668.68	1.64	0.95	-0.24	-0.22
2227 ABELWOOD RD	678.80	0.00	680.90	678.69	679.43	678.09	680.60	-0.11	-0.71		

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	2215 ABELWOOD RD	678.30	0.00	681.10	679.18	679.18	678.13	679.31	0.88	-0.17	
6101 CHANNING CT	705.30	0.00	708.30	706.84	707.18	705.93	707.13	1.54	0.63		
3141 CULLMAN AV	681.70	0.00	684.50	682.31	683.49	681.35	683.48	0.61	-0.35		
CULLMAN AV	682.40	0.00	686.00	682.40	685.08	682.07	684.94	0.00	-0.33		
5615 ILFORD ST	702.50	0.00	705.30	704.09	704.84	702.97	705.00	1.59	0.47		
5521 CUTSHAW CT	703.50	0.00	702.50	701.55	701.55	701.09	701.60	-1.95	-2.41		
5517 CUTSHAW CT	700.20	0.00	702.50	701.33	701.33	700.47	701.76	1.13	0.27		
5513 CUTSHAW CT	700.50	0.00	700.90	701.59	702.24	700.82	702.16	1.09	0.32		
5219 DOLPHIN LN	691.60	0.00	694.10	692.53	692.61	691.70	692.92	0.93	0.10		
5213 DOLPHIN LN	690.80	0.00	693.80	692.24	692.24	691.40	692.26	1.44	0.60		
5129 DOLPHIN LN	690.50	0.00	690.80	691.27	691.27	690.26	691.09	0.77	-0.24		
5125 DOLPHIN LN	691.40	0.00	693.20	691.59	691.59	690.92	691.47	0.19	-0.48		
5117 DOLPHIN LN	691.50	0.00	693.30	691.11	691.11	690.43	691.25	-0.39	-1.07		
5112 DOLPHIN LN	691.20	0.00	693.40	691.76	691.76	690.77	691.16	0.56	-0.43		
5111 DOLPHIN LN	689.90	0.00	692.60	690.71	691.01	689.73	690.93	0.81	-0.17		
5101 DOLPHIN LN	690.10	0.00	693.10	691.35	691.35	690.37	691.39	1.25	0.27		
3041 DUNLAVIN WY	674.20	0.00	676.50	674.83	674.83	673.32	674.45	0.63	-0.88		
3047 DUNLAVIN WY	674.80	0.00	677.60	674.79	674.79	674.16	674.71	-0.01	-0.64		
3125 DUNLAVIN WY	677.00	0.00	679.60	677.54	677.54	676.46	677.59	0.54	-0.54		
3009 DUNLAVIN WY	672.70	0.00	676.20	673.87	673.87	672.88	674.50	1.17	0.18		
3101 DUNLAVIN WY	675.00	0.00	678.00	675.42	675.42	674.53	675.59	0.42	-0.47		
3117 DUNLAVIN WY	676.00	0.00	678.30	676.74	676.74	675.74	677.19	0.74	-0.26		
3109 DUNLAVIN WY	675.50	0.00	677.50	676.24	676.24	675.33	676.13	0.74	-0.17		
3200 BRIXTON PL	670.80	0.00	674.00	670.49	671.43	670.05	671.63	-0.31	-0.75		
3020 DUNLAVIN WY	675.40	0.00	677.80	675.44	675.70	675.00	676.44	0.04	-0.40		
3000 DUNLAVIIN WY	673.50	0.00	676.20	673.47	674.16	673.90	674.72	-0.03	0.40		
2941 DUNLAVIN WY	672.20	0.00	672.70	672.82	673.61	672.36	674.08	0.62	0.16		
2935 DUNLAVIN WY	672.50	0.00	675.10	673.52	673.52	672.67	674.27	1.02	0.17		
3717 COUNTY CLUB DR	671.50	0.00	674.30	662.11	672.82	671.12	673.07	-9.39	-0.38		
1901 ARNOLD DR	656.20	0.00	659.30	657.92	658.74	656.73	659.35	1.72	0.53		
1843 ARNOLD DR	656.70	0.00	660.20	655.73	659.07	655.93	659.07	-0.97	-0.77		
1617 ARNOLD DR	655.70	0.00	659.00	654.34	657.53	653.88	658.58	-1.36	-1.82		
1615 ARNOLD DR	654.20	0.00	656.30	653.15	654.22	653.62	655.11	-1.05	-0.58		
2644 CHESTERFIELD AV	644.10	0.00	648.60	646.32	647.40	644.23	648.47	2.22	0.13		
6200 FOUR SEASONS LN	700.50	0.00	700.80	699.92	699.92	699.24	699.83	-0.58	-1.26		
419 FANNIE CR	634.30	0.00	636.60	634.90	634.91	633.99	634.64	0.60	-0.31		
3526 INDEPENDENCE BV	677.00	0.00	677.50	677.20	677.20	676.13	677.17	0.20	-0.87		

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	313 FIELDBROOK PL	602.90	0.00	606.80	603.87	603.87	602.64	603.83	0.97	-0.26	
1227 BARKLEY RD	615.30	0.00	617.60	615.16	617.02	614.04	615.17	-0.14	-1.26		
6317 BIRMINGHAM DR	569.80	0.00	574.00	570.30	570.30	569.67	570.77	0.50	-0.13		
2721 BURNT MILL RD	572.90	0.00	577.10	579.36	580.74	573.61	575.94	6.46	0.71		
5616 RUPERT LN	709.30	0.00	709.90	709.90	709.90	708.83	710.16	0.60	-0.47		
5544 LARCHMONT AV	700.60	0.00	704.20	701.37	702.01	700.47	703.29	0.77	-0.13		
5501 RUTH DR	699.20	0.00	702.80	701.06	701.37	700.07	701.44	1.86	0.87		
1442 SHANNONHOUSE DR	694.40	0.00	694.90	694.98	695.27	693.81	696.05	0.58	-0.59		
2652 LABURNUM AV	645.90	0.00	651.20	646.36	652.77	646.63	650.70	0.46	0.73		
110 PLACID PL	620.90	0.00	624.30	621.98	621.98	620.85	621.61	1.08	-0.05		
1617 JAMESTON DR	613.70	0.00	617.10	613.36	614.75	613.20	614.47	-0.34	-0.50		
122 PLACID PL	620.90	0.00	623.90	621.29	621.44	620.26	621.40	0.39	-0.64		
1623 JAMESTON DR	613.40	0.00	616.70	613.43	614.19	612.60	613.98	0.03	-0.80		
128 PLACID PL	621.40	0.00	624.40	621.49	621.64	620.61	621.58	0.09	-0.79		
1629 JAMESTON DR	613.00	0.00	616.40	613.06	613.40	612.38	613.45	0.06	-0.62		
1634 JAMESTON DR	613.60	0.00	616.10	613.05	614.02	612.38	613.86	-0.55	-1.22		
1635 JAMESTON DR	613.20	0.00	616.30	613.13	613.13	611.98	613.41	-0.07	-1.22		
1641 JAMESTON DR	613.30	0.00	616.80	613.82	613.82	612.27	613.83	0.52	-1.03		
1647 JAMESTON DR	613.50	0.00	616.50	613.74	613.94	613.10	615.61	0.24	-0.40		
1701 JAMESTON DR	613.00	0.00	615.50	613.12	613.12	612.47	613.28	0.12	-0.53		
1713 JAMESTON DR	613.20	0.00	615.80	613.23	613.23	612.51	613.74	0.03	-0.69		
1714 JAMESTON DR	612.40	0.00	615.50	612.19	612.77	611.17	613.31	-0.21	-1.23		
1719 JAMESTON DR	613.30	0.00	615.90	613.08	613.89	612.23	613.74	-0.22	-1.07		
1720 JAMESTON DR	612.30	0.00	613.80	612.41	613.35	611.82	613.30	0.11	-0.48		
1725 JAMESTON DR	612.40	0.00	615.90	612.68	613.05	612.08	614.76	0.28	-0.32		
1524 MYERS PARK DR	621.40	0.00	621.60	620.05	623.38	619.14	622.11	-1.35	-2.26		
1638 MYERS PARK DR	620.30	0.00	620.80	620.04	620.76	619.69	621.81	-0.26	-0.61		
2328 SHARON RD	619.00	0.00	621.50	617.77	621.91	617.33	621.78	-1.23	-1.67		
2323 SHARON RD	615.80	0.00	621.80	616.42	618.25	615.36	619.89	0.62	-0.44		
2901 MANOR RD	608.10	0.00	611.00	608.60	608.60	607.66	608.45	0.50	-0.44		
1208 MONTFORD DR	616.00	0.00	619.50	616.97	617.12	615.99	617.16	0.97	-0.01		
5114 LINCREST PL	663.60	0.00	666.50	663.46	663.82	662.37	663.89	-0.14	-1.23		
1021 MOCKINGBIRD LN	612.80	0.00	615.30	614.09	614.09	613.16	613.74	1.29	0.36		
1101 MOCKINGBIRD LN	613.10	0.00	615.40	613.48	613.48	612.63	613.33	0.38	-0.47		
1109 MOCKINGBIRD LN	613.00	0.00	615.30	613.39	613.39	612.71	613.25	0.39	-0.29		
1116 MOCKINGBIRD LN	613.90	0.00	616.30	607.10	612.69	612.39	676.29	-6.80	-1.51		
1710 RANCHWOOD RD	581.20	0.00	583.90	581.67	581.87	580.89	582.00	0.47	-0.31		

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2036 SHARON OAKS LN	564.50	0.00	564.80	564.32	564.71	562.51	564.62	-0.18	-1.99			
7112 LANCER DR	557.80	0.00	561.40	558.88	559.46	557.95	559.04	1.08	0.15			
7000 LANCER DR	559.60	0.00	562.10	558.58	559.53	558.09	559.73	-1.02	-1.51			
2115 SHARON OAKS LN	565.00	0.00	565.40	564.34	566.77	564.73	566.34	-0.66	-0.27			
8108 PARK VISTA CR	532.80	0.00	539.70	531.32	537.21	532.69	538.74	-1.48	-0.11			
12900 MEADOW CREEK LN	555.70	0.00	556.30	555.82	560.07	555.38	561.18	0.12	-0.32			
4431 NORTH TRYON ST	715.00	0.00	718.90	716.01	719.87	715.36	720.12	1.01	0.36			
1520 NORTH DAVIDSON ST	664.80	0.00	672.20	665.97	670.40	664.28	671.18	1.17	-0.52			
1401 NORTH ALEXANDER S	664.30	0.00	669.00	665.90	666.84	664.89	667.57	1.60	0.59			
1135 NORTH ALEXANDER S	663.30	0.00	667.50	662.11	663.63	662.51	665.62	-1.19	-0.79			
NORTH ALEXANDER ST	664.90	0.00	669.70	662.31	668.15	664.56	668.29	-2.59	-0.34			
1123 NORTH ALEXANDER S	668.30	0.00	670.80	666.27	667.95	665.28	668.93	-2.03	-3.02			
1124 NORTH ALEXANDER S	666.40	0.00	668.60	666.34	666.77	665.18	666.74	-0.06	-1.22			
1120 NORTH ALEXANDER S	662.20	0.00	666.10	659.90	664.33	661.82	664.60	-2.30	-0.38			
1116 NORTH ALEXANDER S	659.80	0.00	662.90	654.41	656.34	658.78	661.24	-5.39	-1.02			
NORTH MYERS ST	668.00	0.00	671.50	666.76	670.61	666.75	669.93	-1.24	-1.25			
701 SOUTH KINGS DR	634.30	0.00	634.70	633.95	634.12	632.94	634.19	-0.35	-1.36			
6041 SUNSET CHASE LN	688.20	0.00	688.30	687.83	687.83	687.43	688.41	-0.37	-0.77			
1620 TWIFFORD PL	623.30	0.00	626.80	624.03	624.39	622.94	625.07	0.73	-0.36			
1714 STERLING RD	612.20	0.00	622.70	610.30	610.97	612.17	621.43	-1.90	-0.03			
1720 STERLING RD	612.70	0.00	621.90	612.34	618.67	612.11	620.55	-0.36	-0.59			
1449 TOWNES RD	611.80	0.00	614.60	612.28	612.28	611.01	611.95	0.48	-0.79			
1441 TOWNES RD	614.90	0.00	615.10	612.42	612.95	611.53	613.05	-2.48	-3.37			
4515 WENTWORTH PL	619.30	0.00	621.80	619.43	619.74	618.43	620.04	0.13	-0.87			
4533 WENTWORTH PL	619.30	0.00	621.10	618.55	619.44	618.21	620.05	-0.75	-1.09			
5611 WEDGEWOOD DR	620.80	0.00	622.90	619.66	619.66	618.51	619.91	-1.14	-2.29			
5623 WEDGEWOOD DR	618.80	0.00	621.50	619.31	619.31	618.44	619.19	0.51	-0.36			
1216 TERRENCE PL	614.80	0.00	615.90	614.37	614.93	613.41	616.71	-0.43	-1.39			
5817 WEDGEWOOD DR	612.30	0.00	616.40	612.85	614.12	611.81	613.77	0.55	-0.49			
2811 SPRING VALLEY DR	576.30	0.00	576.50	572.53	574.00	571.66	574.10	-3.77	-4.64			
6208 SUMMERTREE LN	569.50	0.00	570.10	569.20	569.60	566.36	571.67	-0.30	-3.14			
6212 SUMMERTREE LN	569.40	0.00	571.90	567.53	569.77	565.12	571.31	-1.87	-4.28			
6216 SUMMERTREE LN	569.10	0.00	571.70	563.40	570.36	566.33	570.15	-5.70	-2.77			
6220 SUMMERTREE LN	569.50	0.00	572.10	566.36	570.41	566.12	570.53	-3.14	-3.38			
<b>"NoFP" means no building footprints are available; "w/FP" means footprints are available.</b>								<b>Standard Deviation (ft)</b>	<b>1.91</b>	<b>1.13</b>	<b>1.84</b>	<b>1.15</b>
<b>"NoFP" method automatically identifies buildings before determining LAG and HAG.</b>								<b>Average (absolute) (ft)</b>	<b>1.22</b>	<b>0.87</b>	<b>1.11</b>	<b>0.74</b>
<b>"w/FP" method relies on building footprints provided by the county; this gives</b>								<b>Minimum Error (ft)</b>	<b>-9.39</b>	<b>-4.64</b>	<b>-5.75</b>	<b>-5.75</b>



ADDRESS	Elevation Certificate Elevations			Results from "NoFP" Method		Results from "w/FP" Method		LAG		HAG	
	LAG (ft)	HAG (ft)	TBF (ft)	LAG (ft)	HAG (ft)	LAG (ft)	HAG (ft)	NoFP - EC (ft)	w/FP - EC (ft)	NoFP - EC (ft)	w/FP - EC (ft)
	<p>the "w/FP" method a natural advantage over the "NoFP" method, but this "w/FP" ("with footprints") method won't work without footprints.</p> <p>Some outliers appear to be mis-identified or perhaps result from errors in the Elevation Certificates</p> <p>For these reasons, true errors are probably smaller than shown in the summary table.</p> <p>For the "NoFP" method, CCS identified 2270 of 2617 buildings for which Dewberry had footprints, missing 347 (13.3%) of the buildings. Only 217 of those 2270 buildings had Elevation Certificates.</p> <p>These "NoFP" results from CCS are relatively good, considering the LIDAR dataset has 16 foot post spacing that may have only one LIDAR point on a rooftop.</p> <p>All records used had one-to-one relationships; other records had many-to-one or one-to-many relationships, e.g., row houses with multiple addresses under one roof with a single footprint, or multiple "NoFP" LAG elevations for row houses with different rooftop elevations that appeared like multiple houses.</p>						Maximum Error (ft)	9.47	3.63	9.44	4.05
Count of Houses							215	215	108	108	
95th Percentile Error (ft)							3.79	2.82	3.57	2.10	
90th Percentile Error (ft)							2.55	1.98	2.28	1.66	
85th Percentile Error (ft)							1.95	1.43	1.71	1.24	
						"NoFP" LAG	"w/FP" LAG	"NoFP" HAG	"w/FP" HAG		