

**MEMORANDUM**

To: Robert Eichelsdoerfer, Senior Engineer - King County  
From: Matthew Palmer, PE *MJP*  
Subject: 2016 King County Road Design and Construction Standards (KCRDCS)  
Date: October 31, 2017  
Project: Raging River Quarry, GRDE15-0166, GTC #15-137

This response memorandum is to provide additional information to address comments by King County for additional information regarding Design Speed and Entering Sight Distance.

The information will cover the following KCRDCS:

- 1.17 – Design Speed, 10 mph above the posted speed limit for arterials.
- 2.13 – Entering Sight Distance

**1. Design Speed (KCRDCS 1.17)**

The posted speed limit along Preston-Fall City Road SE a principal arterial in the vicinity Carmichael Road is 45 mph. This would require a design speed of 55 mph based on KCRDCS. Per the American Association of State Highway Transportation Officials (AASHTO), operating speed is the speed at which drivers are observed operating their vehicle during free flow conditions and the 85<sup>th</sup> percentile is the most frequently used measure of the operating speed. Therefore, speed data was collected on Preston-Fall City Road approximately 550 feet to the north of Carmichael Road. The three days of data collected shows an average 85<sup>th</sup> Percentile speed of 49.0 mph for southbound vehicles. Therefore, these 85<sup>th</sup> percentile speeds should be utilized when assessing the available sight distance on Preston-Fall City Road SE at Carmichael Road.

**2. Sight Distance (KCRDCS 2.12(B) & 2.13)**

The speed data collected for the sight distance calculations on Preston-Fall City Road SE north of Carmichael Road would require a design speed of 49.0 mph southbound vehicles. The required sight distance for the design speed are as follows:

Southbound Design Speed - 49.0 mph

- Stopping Sight Distance – 412 feet
- Entering Sight Distance – 544 feet

Northbound Design Speed – 55 mph (based on posted 45 mph + 10 mph modifier)

- Stopping Sight Distance – 495 feet
- Entering Sight Distance – 610 feet

The current King County standards evaluate stopping sight distance measured from an eye height of 3.5 feet to an object height of 2.0 feet. The entering sight distance has been evaluated based on an entering vehicle eye height of 3.5 feet from 14.5 feet from the edge of the traveled way to an approaching vehicle eye height of 4.25 feet, which is consistent with King County standards.

### **2.1. Stopping Sight Distance**

All the movements at Preston-Fall City Road SE at Carmichael Road meet stopping sight distance based on the 85<sup>th</sup> percentile speed in the southbound direction and 55 mph design speed in the northbound direction.

The available stopping sight distance for southbound vehicle to stop before rear ending a vehicle waiting to turn right at Carmichael Road/Site Access is greater than 500 feet and for a northbound vehicle to stop before rear ending a vehicle waiting to turn left onto Carmichael Road is 700 feet. This is sufficient to meet the stopping sight distance requirement.

Based on the collision history, no channelization being warranted, and sufficient stopping sight distance the additional traffic from the development would not create or add to a safety problem.

### **2.2. Entering Sight Distance**

All the movements at Carmichael Road meet entering sight distance based on the 85<sup>th</sup> percentile speed and clearing within right-of-way (ROW) based on the available ROW data on King County Parcel Viewer.

The intersection of Preston-Fall City Road SE at Carmichael Road has 545-560 feet of entering sight distance when looking to the north at an oncoming southbound vehicle and over 700 feet of entering sight distance when looking to the south at an approaching northbound vehicle.

With clearing to reduce vegetation height in the right-of-way of Preston-Fall City Road SE north of Carmichael Road there will be approximately 560 feet of entering sight distance as shown in the parcel viewer figure north of the access. This will meet the required entering sight distance of 544 feet based on the 49.0 mph design speed for southbound vehicles.

## **3. Additional Mitigation**

To maximize the available entering sight distance, Carmichael Road/Site Access should be striped to position vehicles as far south as possible extending the straight-line sight distance to the north. Also, where the sight distance becomes limited to the north of the sight access at approximately 560 feet, GTC would recommend installing MUTCD W11-10 sign and additional signing posted with the W11-10 sign that reads “CAUTION WATCH FOR TRUCK TRAFFIC”.

Attachments (A-1 to A-13)

Vehicle Speed Report Summary

Location: PRESTON FALL CITY RD NEAR 5905  
Count Direction: Northbound / Southbound  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

Study Total																	
Total	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +
	Speed Range (mph)																
Northbound	0	6	9	12	33	159	1,391	5,430	5,715	1,082	81	16	4	0	0	0	0
Percent	0.0%	0.0%	0.1%	0.1%	0.2%	1.1%	10.0%	39.0%	41.0%	7.8%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Southbound	3	9	26	28	42	182	1,200	5,754	6,436	1,445	123	10	2	0	0	0	0
Percent	0.0%	0.1%	0.2%	0.2%	0.3%	1.2%	7.9%	37.7%	42.2%	9.5%	0.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	3	15	35	40	75	341	2,591	11,184	12,151	2,527	204	26	6	0	0	0	0
Percent	0.0%	0.1%	0.1%	0.1%	0.3%	1.2%	8.9%	38.3%	41.6%	8.7%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Total Study Percentile Speed Summary				Total Study Speed Statistics			
Northbound				Northbound			
50th Percentile (Median)	44.8	mph	Mean (Average) Speed	44.8	mph	Percent in Pace	40.2 - 50.2
85th Percentile	48.6	mph	10 mph Pace	40.2 - 50.2	mph	Percent in Pace	79.8
95th Percentile	51.0	mph	Percent in Pace	79.8	%		
Southbound				Southbound			
50th Percentile (Median)	45.1	mph	Mean (Average) Speed	45.0	mph	Percent in Pace	40.3 - 50.3
85th Percentile	49.0	mph	10 mph Pace	40.3 - 50.3	mph	Percent in Pace	79.9
95th Percentile	51.6	mph	Percent in Pace	79.9	%		

Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01



Tuesday, October 17, 2017  
Northbound

Time	Speed Range (mph)																	Total Volume
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +	
12:00 AM	0	0	0	0	0	0	1	4	5	4	1	1	0	0	0	0	0	16
1:00 AM	0	0	0	0	0	0	1	8	6	3	2	3	0	0	0	0	0	23
2:00 AM	0	0	0	0	0	2	1	2	4	3	0	0	0	0	0	0	0	12
3:00 AM	0	0	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	6
4:00 AM	0	0	0	0	0	0	4	5	7	3	1	1	0	0	0	0	0	21
5:00 AM	0	0	0	0	0	0	4	11	18	8	2	0	0	0	0	0	0	43
6:00 AM	0	0	0	0	0	0	10	49	53	15	4	0	0	0	0	0	0	131
7:00 AM	0	0	0	0	2	1	11	69	64	14	1	0	1	0	0	0	0	163
8:00 AM	0	0	0	0	0	0	21	103	88	13	1	0	0	0	0	0	0	226
9:00 AM	0	0	1	0	1	10	61	150	67	15	1	0	0	0	0	0	0	306
10:00 AM	0	0	0	0	1	3	34	63	68	15	0	0	0	0	0	0	0	184
11:00 AM	0	0	0	0	0	1	26	114	84	7	1	0	0	0	0	0	0	233
12:00 PM	0	0	0	0	0	3	23	115	76	18	0	0	0	0	0	0	0	235
1:00 PM	0	0	0	0	0	2	27	114	105	21	2	0	0	0	0	0	0	271
2:00 PM	0	0	0	1	0	1	24	133	144	17	1	0	0	0	0	0	0	321
3:00 PM	0	0	0	1	1	1	25	137	243	47	0	0	0	0	0	0	0	455
4:00 PM	0	0	0	0	0	0	19	182	283	50	3	0	0	0	0	0	0	537
5:00 PM	0	0	1	1	2	2	27	176	258	69	1	0	0	0	0	0	0	537
6:00 PM	0	0	0	0	0	0	20	124	204	28	0	0	0	0	0	0	0	376
7:00 PM	0	1	0	0	0	0	8	59	105	45	1	0	0	0	0	0	0	219
8:00 PM	0	0	0	0	0	1	6	53	63	26	2	1	1	0	0	0	0	153
9:00 PM	0	0	0	0	2	6	4	37	45	24	4	1	0	0	0	0	0	123
10:00 PM	0	0	0	0	1	0	3	10	27	6	6	1	0	0	0	0	0	54
11:00 PM	0	0	0	0	0	0	5	10	13	5	0	1	0	0	0	0	0	34
<b>Total</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>10</b>	<b>33</b>	<b>365</b>	<b>1,729</b>	<b>2,032</b>	<b>458</b>	<b>35</b>	<b>9</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,679</b>
<b>Percent</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.7%</b>	<b>7.8%</b>	<b>37.0%</b>	<b>43.4%</b>	<b>9.8%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	

Daily Percentile Speed Summary			Speed Statistics		
50th Percentile (Median)	45.2	mph	Mean (Average) Speed	45.3	mph
85th Percentile	49.1	mph	10 mph Pace	40.4 - 50.4	mph
95th Percentile	51.6	mph	Percent in Pace	80.7	%

Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

Tuesday, October 17, 2017  
Southbound

Daily Percentile Speed Summary																			Speed 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Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

Wednesday, October 18, 2017  
Northbound

Time	Speed Range (mph)																Total Volume
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +
12:00 AM	0	0	0	0	0	1	6	5	5	0	0	0	1	0	0	0	0
1:00 AM	0	0	0	0	0	0	4	5	2	2	2	2	0	0	0	0	0
2:00 AM	0	0	0	0	0	1	0	4	7	2	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	2	10	10	0	0	1	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	4	1	7	3	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	5	9	35	67	67	21	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	15	55	67	55	12	1	0	0	0	0	0
7:00 AM	0	0	0	0	1	0	0	64	67	64	17	1	0	0	0	0	0
8:00 AM	0	0	0	0	0	1	38	64	64	60	17	1	0	0	0	0	0
9:00 AM	0	0	0	0	0	3	36	98	74	74	15	1	0	0	0	0	0
10:00 AM	0	0	0	0	4	4	31	93	51	7	1	0	0	0	0	0	0
11:00 AM	0	0	0	0	1	2	12	90	83	10	1	0	0	0	0	0	0
12:00 PM	0	0	0	0	6	0	26	72	76	17	2	0	0	0	0	0	0
1:00 PM	0	0	1	0	0	3	32	109	99	20	2	0	0	0	0	0	0
2:00 PM	0	0	0	0	1	3	9	123	158	26	3	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	1	28	143	199	36	3	0	0	0	0	0	0
4:00 PM	0	1	1	1	1	8	44	204	279	40	1	1	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	23	218	39	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	2	37	157	27	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	6	62	128	57	3	1	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	5	21	62	42	6	1	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	5	22	57	7	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	4	17	18	4	1	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	5	21	6	6	0	0	0	0	0	0	0
Total	0	1	2	7	16	47	460	1,806	1,841	330	25	4	1	0	0	0	0
Percent	0.0%	0.0%	0.0%	0.2%	0.4%	1.0%	10.1%	39.8%	40.6%	7.3%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily Percentile Speed Summary				Speed Statistics	
50th Percentile (Median)	44.8	mph	44.7	Mean (Average) Speed	44.7 mph
85th Percentile	48.5	mph		10 mph Pace	39.9 - 49.9 mph
95th Percentile	50.9	mph		Percent in Pace	80.3 %

Location: PRESTON FALL CITY RD NEAR 5905  
 Date Range: 10/17/2017 to 10/19/2017  
 Site Code: 01

Wednesday, October 18, 2017  
 Southbound

Time	Speed Range (mph)																	Total Volume
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +	
12:00 AM	0	0	0	0	0	0	1	2	5	1	0	0	0	0	0	0	0	9
1:00 AM	0	0	0	0	0	0	0	0	3	1	3	0	0	0	0	0	0	7
2:00 AM	0	0	0	0	0	0	0	6	4	0	0	0	0	0	0	0	0	10
3:00 AM	0	0	0	0	0	1	0	3	7	2	1	0	0	0	0	0	0	14
4:00 AM	0	0	1	0	0	0	1	15	28	25	4	0	0	0	0	0	0	74
5:00 AM	0	0	0	0	0	0	1	39	94	58	5	1	0	0	0	0	0	198
6:00 AM	0	0	0	0	0	1	15	108	214	77	8	0	0	0	0	0	0	423
7:00 AM	1	3	14	8	0	1	38	201	274	47	1	1	0	0	0	0	0	589
8:00 AM	0	0	0	1	5	8	31	188	205	32	4	0	0	0	0	0	0	474
9:00 AM	0	0	0	0	1	5	34	123	161	29	2	0	0	0	0	0	0	355
10:00 AM	0	0	0	0	2	2	28	123	108	15	1	0	0	0	0	0	0	279
11:00 AM	0	0	0	0	2	4	19	102	113	23	2	0	0	0	0	0	0	265
12:00 PM	0	2	1	4	4	6	28	105	100	24	1	0	0	0	0	0	0	275
1:00 PM	0	0	0	0	1	12	20	120	101	15	2	0	0	0	0	0	0	271
2:00 PM	1	0	0	0	1	0	26	118	134	18	4	0	0	0	0	0	0	302
3:00 PM	0	0	0	0	2	3	14	101	170	40	2	0	0	0	0	0	0	332
4:00 PM	0	0	0	0	1	2	24	89	113	42	1	0	0	0	0	0	0	272
5:00 PM	0	2	2	0	0	0	9	80	114	44	4	0	0	0	0	0	0	255
6:00 PM	0	0	0	0	0	3	31	79	77	24	1	0	0	0	0	0	0	215
7:00 PM	0	0	0	0	0	22	38	59	14	4	1	0	0	0	0	0	0	138
8:00 PM	0	0	0	0	0	9	22	40	13	1	0	0	0	0	0	0	0	85
9:00 PM	0	0	0	0	0	5	5	21	9	4	0	0	0	0	0	0	0	44
10:00 PM	0	0	0	0	0	1	7	10	8	1	0	0	0	0	0	0	0	27
11:00 PM	0	0	0	0	0	0	1	5	5	2	0	0	0	0	0	0	0	13
<b>Total</b>	<b>2</b>	<b>7</b>	<b>18</b>	<b>13</b>	<b>19</b>	<b>85</b>	<b>393</b>	<b>1,737</b>	<b>2,074</b>	<b>529</b>	<b>47</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,926</b>
<b>Percent</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>1.7%</b>	<b>8.0%</b>	<b>35.3%</b>	<b>42.1%</b>	<b>10.7%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	

Daily Percentile Speed Summary			Speed Statistics		
50th Percentile (Median)	45.2	mph	Mean (Average) Speed	45	mph
85th Percentile	49.3	mph	10 mph Pace	40.3 - 50.3	mph
95th Percentile	52.0	mph	Percent in Pace	77.6	%

Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

Thursday, October 19, 2017  
Northbound

Total	Speed Range (mph)																Time
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +
21	0	0	0	0	0	4	10	5	2	0	0	0	0	0	0	0	0
13	0	0	0	0	0	2	6	4	1	0	0	0	0	0	0	0	0
16	0	0	0	0	0	2	2	6	3	2	1	0	0	0	0	0	0
11	0	0	0	0	0	1	2	3	2	2	1	0	0	0	0	0	0
20	0	0	0	0	1	2	4	8	2	6	0	0	0	0	0	0	0
47	0	0	0	0	0	7	16	17	6	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	1	16	17	6	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	11	58	39	10	1	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	1	5	44	67	44	10	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	1	24	99	60	8	2	0	0	0	0	0	0
9:00 AM	0	0	0	0	1	14	38	139	53	2	1	0	0	0	0	0	0
10:00 AM	0	0	0	0	1	6	40	78	76	20	1	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	6	27	92	82	10	1	0	0	0	0	0	0
12:00 PM	0	0	0	0	1	10	38	111	86	9	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	19	90	121	24	1	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	9	33	118	134	21	1	0	1	0	0	0	0
3:00 PM	0	4	5	2	2	4	29	148	224	29	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	32	229	258	32	2	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	3	36	198	246	19	1	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	3	85	182	115	15	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	7	50	104	87	13	1	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	3	25	63	65	11	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	3	47	65	23	4	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	1	11	24	34	15	0	1	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	3	7	10	7	1	1	0	0	0	0	0
Total	0	4	5	2	7	79	566	1,895	1,842	294	21	3	1	0	0	0	0
Percent	0.0%	0.1%	0.1%	0.0%	0.1%	1.7%	12.0%	40.2%	39.0%	6.2%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily Percentile Speed Summary				Speed Statistics	
50th Percentile (Median)	44.4	mph	44.3	Mean (Average) Speed	44.3 mph
85th Percentile	48.2	mph	39.4 - 49.4	10 mph Pace	39.4 - 49.4 mph
95th Percentile	50.4	mph	Percent in Pace		79.9 %



Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

Thursday, October 19, 2017  
Southbound

Time	Speed Range (mph)																Total Volume
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +
12:00 AM	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	5
1:00 AM	0	0	0	0	0	1	2	3	2	0	1	0	0	0	0	0	11
2:00 AM	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	7
3:00 AM	0	0	0	0	0	1	0	6	1	1	0	0	0	0	0	0	15
4:00 AM	0	0	0	0	0	0	4	26	30	12	2	0	0	0	0	0	74
5:00 AM	0	0	0	0	0	3	10	61	85	24	6	0	0	0	0	0	189
6:00 AM	0	0	0	0	0	3	46	186	165	28	2	0	0	0	0	0	430
7:00 AM	0	0	1	3	3	10	67	269	186	25	1	0	0	0	0	0	565
8:00 AM	1	0	0	0	0	7	25	167	236	43	2	0	0	0	0	0	481
9:00 AM	0	0	1	5	4	4	43	178	168	22	2	0	0	0	0	0	427
10:00 AM	0	0	0	0	0	5	19	105	123	22	5	2	0	0	0	0	281
11:00 AM	0	0	0	0	1	4	19	108	139	16	2	0	0	0	0	0	289
12:00 PM	0	0	0	0	0	6	37	94	134	31	2	0	0	0	0	0	306
1:00 PM	0	0	0	0	0	1	27	138	145	24	1	0	0	0	0	0	336
2:00 PM	0	0	0	0	0	2	36	119	105	14	0	0	0	0	0	0	276
3:00 PM	0	0	0	0	0	1	6	38	144	26	1	0	0	0	0	0	365
4:00 PM	0	0	0	0	0	3	28	131	135	29	1	0	0	0	0	0	327
5:00 PM	0	0	0	0	0	1	14	114	131	22	2	0	0	0	0	0	284
6:00 PM	0	0	0	0	0	3	27	107	72	12	1	0	0	0	0	0	222
7:00 PM	0	0	0	0	0	2	24	62	38	6	0	1	0	0	0	0	133
8:00 PM	0	0	0	0	0	0	23	38	41	6	0	0	0	0	0	0	108
9:00 PM	0	0	0	0	0	0	8	14	18	5	0	0	1	0	0	0	46
10:00 PM	0	0	0	0	0	0	2	13	8	4	0	0	0	0	0	0	27
11:00 PM	0	0	0	0	0	0	0	5	6	0	0	0	0	0	0	0	16
Total	1	0	2	8	12	61	499	2,095	2,126	380	32	3	1	0	0	0	5,220
Percent	0.0%	0.0%	0.0%	0.2%	0.2%	1.2%	9.6%	40.1%	40.7%	7.3%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily Percentile Speed Summary				Speed Statistics	
50th Percentile (Median)	44.8	mph	44.7	mph	
85th Percentile	48.5	mph			
95th Percentile	51.0	mph			
				Mean (Average) Speed	39.7 - 49.7
				10 mph Pace	80.9
				Percent in Pace	%

Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

Total Study Average  
Northbound

Time	Speed Range (mph)																Total Volume
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +
12:00 AM	0	0	0	0	0	2	7	5	4	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	1	6	5	2	2	1	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	2	3	5	2	2	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	1	2	6	7	2	1	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	2	6	16	17	7	2	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	5	16	47	53	15	2	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	10	47	68	54	12	1	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	23	68	89	69	13	1	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	28	89	65	14	1	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	2	45	129	65	11	1	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	2	35	78	65	14	1	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	22	99	83	9	1	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	2	29	99	79	15	1	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	26	104	108	22	2	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	22	125	145	21	2	0	0	0	0	0	0	0
3:00 PM	0	1	2	1	1	27	143	222	37	1	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	3	32	205	273	41	2	0	0	0	0	0	0
5:00 PM	0	0	0	0	1	2	29	197	257	42	1	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	2	47	154	160	23	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	4	40	97	83	20	1	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	3	17	59	57	14	1	0	0	0	0	0	0
9:00 PM	0	0	0	0	1	10	47	53	18	3	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	6	17	26	8	2	1	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	4	13	10	6	0	1	0	0	0	0	0	0
Total	0	1	2	3	10	53	463	1,810	1,904	359	28	4	0	0	0	0	4,637
Percent	0.0%	0.0%	0.0%	0.0%	0.2%	1.1%	10.0%	39.0%	41.1%	7.7%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Note: Average only considered on days with 24-hours of data.

Total Study Percentile Speed Summary				Total Study Speed Statistics			
50th Percentile (Median)	44.8	mph	44.8	Mean (Average) Speed	44.8	mph	
85th Percentile	48.6	mph	48.6	10 mph Pace	40.2 - 50.2	mph	
95th Percentile	51.0	mph	51.0	Percent in Pace	79.8	%	

Location: PRESTON FALL CITY RD NEAR 5905  
Date Range: 10/17/2017 to 10/19/2017  
Site Code: 01

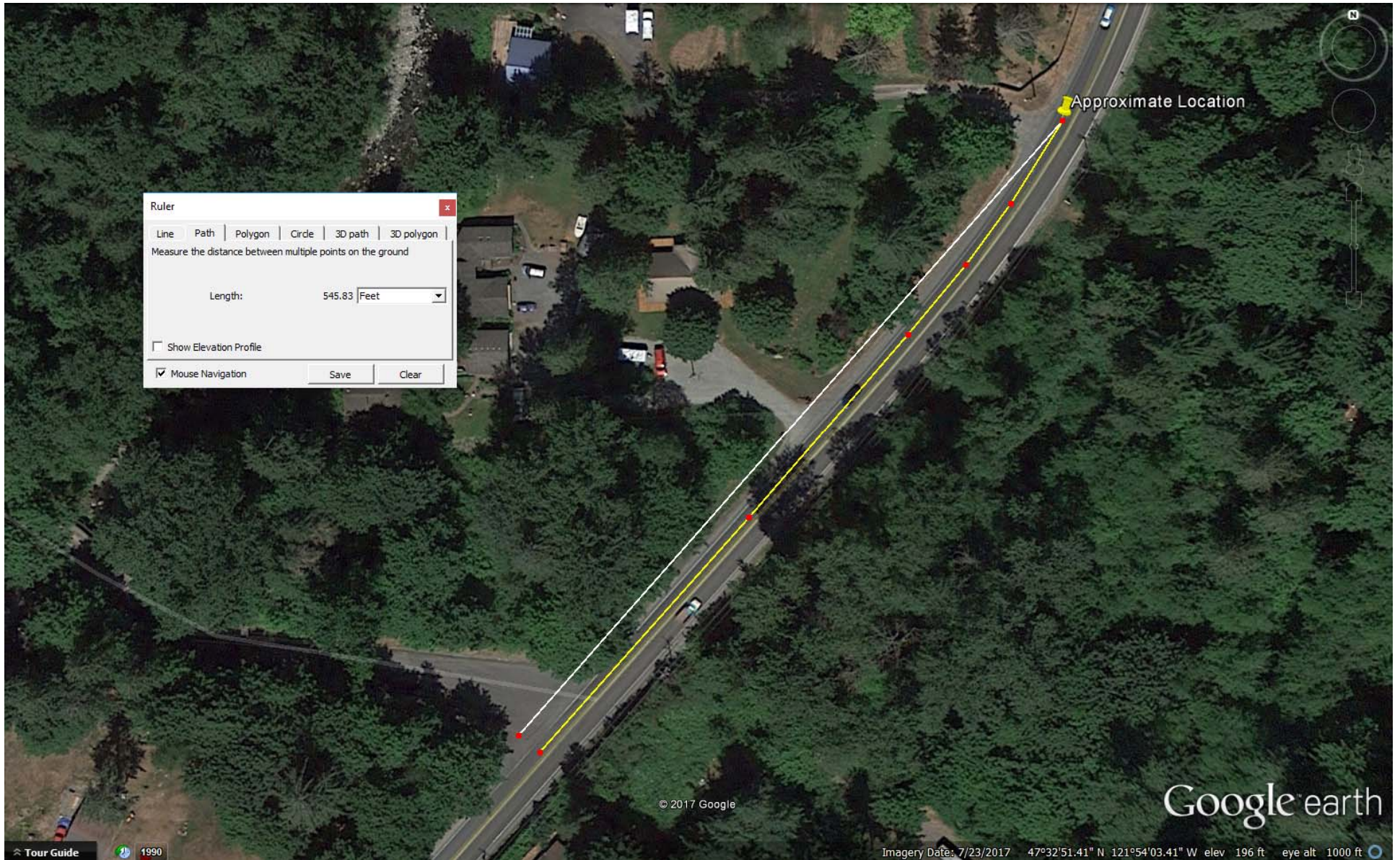
Total Study Average  
Southbound

Time	Speed Range (mph)																Total Volume
	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +
12:00 AM	0	0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	1	0	4	7	1	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	2	17	30	17	3	0	0	0	0	0	0	0
4:00 AM	0	0	1	0	0	1	4	50	92	45	5	1	0	0	0	0	0
5:00 AM	0	0	0	0	0	4	24	133	205	57	5	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	2	24	133	205	57	5	0	0	0	0	0	0
7:00 AM	0	1	5	4	4	8	41	226	251	43	1	0	0	0	0	0	0
8:00 AM	0	0	1	2	2	8	33	188	206	33	3	0	0	0	0	0	0
9:00 AM	0	0	0	2	2	3	30	154	168	31	2	0	0	0	0	0	0
10:00 AM	0	0	0	0	1	3	25	117	114	22	4	1	0	0	0	0	0
11:00 AM	0	0	0	0	1	3	17	109	123	22	1	0	0	0	0	0	0
12:00 PM	0	1	0	1	2	5	32	119	113	23	1	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	4	19	127	119	19	1	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	1	25	110	117	20	3	0	0	0	0	0	0
3:00 PM	0	0	0	0	1	3	22	118	154	33	1	0	0	0	0	0	0
4:00 PM	0	0	0	0	1	2	26	111	136	36	1	0	0	0	0	0	0
5:00 PM	0	1	1	0	0	1	15	101	133	31	3	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	2	28	102	80	20	1	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	8	24	56	32	10	1	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	3	17	35	29	7	1	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	2	5	18	16	5	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	4	8	8	3	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	2	6	4	3	0	0	0	0	0	0	0
Total	0	3	8	9	14	60	398	1,919	2,147	482	39	2	0	0	0	0	5,081
Percent	0.0%	0.1%	0.2%	0.2%	0.3%	1.2%	7.8%	37.8%	42.3%	9.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Note: Average only considered on days with 24-hours of data.

Total Study Percentile Speed Summary				Total Study Speed Statistics			
50th Percentile (Median)	45.1	mph	45.0	Mean (Average) Speed	45.0	mph	
85th Percentile	49.0	mph	49.3	10 mph Pace	40.3 - 50.3	mph	
95th Percentile	51.6	mph		Percent in Pace	79.9	%	











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Size	Materials	Quantity/Price						Enter Quantity	
Adhesive Backed & Rigid Signs		1	3	5	10	20	40		
10 x 7"	Label: Outdoor Durable Vinyl (Adhesive Backed)	\$5.80	\$5.70	\$5.20	\$4.70	\$3.80	\$3.20	<input type="text"/>	<a href="#">Add To Cart</a>
10 x 7"	.055 Outdoor Durable Plastic	\$6.70	\$6.50	\$6.30	\$6.10	\$5.70	\$4.40	<input type="text"/>	<a href="#">Add To Cart</a>
10 x 7"	.040 Coated Rust Free Aluminum	\$10.70	\$10.40	\$9.85	\$9.40	\$7.60	\$6.70	<input type="text"/>	<a href="#">Add To Cart</a>
14 x 10"	Label: Outdoor Durable Vinyl (Adhesive Backed)	\$9.70	\$8.40	\$8.20	\$7.50	\$6.50	\$5.60	<input type="text"/>	<a href="#">Add To Cart</a>
14 x 10"	.055 Outdoor Durable Plastic	\$9.85	\$9.40	\$8.90	\$7.95	\$6.90	\$5.75	<input type="text"/>	<a href="#">Add To Cart</a>
14 x 10"	.040 Coated Rust Free Aluminum	\$17.35	\$15.95	\$13.50	\$12.95	\$12.45	\$10.45	<input type="text"/>	<a href="#">Add To Cart</a>
18 x 12"	.125 Outdoor Durable Plastic	\$17.95	\$16.00	\$15.50	\$14.75	\$13.95	\$12.95	<input type="text"/>	<a href="#">Add To Cart</a>
18 x 12"	.063 Coated Rust Free Aluminum	\$18.80	\$17.80	\$17.50	\$16.95	\$14.95	\$13.95	<input type="text"/>	<a href="#">Add To Cart</a>
24 x 18"	.125 Outdoor Durable Plastic	\$27.50	\$26.50	\$25.50	\$24.50	\$23.25	\$22.75	<input type="text"/>	<a href="#">Add To Cart</a>
24 x 18"	.080 Coated Rust Free Aluminum	\$29.75	\$28.40	\$27.90	\$27.40	\$26.90	\$25.75	<input type="text"/>	<a href="#">Add To Cart</a>

**Accessories****Material Descriptions  
& Sign Application****Heavy Duty Nylon Ties - NT8** Heavy Duty Nylon Ties

Size	Materials	Price	Enter Quantity
Safety Sign - Fence Mounting Accessory		1	
8" Long	White Nylon Ties - Package of 100	\$15.00	<input type="text"/> <a href="#">Add To Cart</a>

**Tamper Resistant Fence Bracket Use on 2" Chain Link Fence** Tamper Resistant Fence Bracket

Size	Materials	Price	Enter Quantity
Fence Bracket for Traffic/Parking Signs (for 3/8" dia. Holes) 2 holes		1   6   11	
5/16" x 1"	Fence Bracket with 1-Way Bolt for Traffic/Parking Signs (Includes 2 brackets, 2 nuts, 2 One way bolts 5/16" x 1"	\$12.00   \$10.80   \$9.75	<input type="text"/> <a href="#">Add To Cart</a>

Fence Bracket for Traffic/Parking Signs (for 3/8" dia. Holes) 2 holes		1	6	11	
5/16" x 1"	Fence Bracket with 1-Way Bolt Package of 10 Brackets w/ nuts and one way bolts 5/16" x 1"	\$58.35	\$52.50	\$47.25	<input type="button" value="Add To Cart"/>
Fence Bracket for Safety/Property Signs (for .218" or 1/4" Holes) 4 holes		1	6	11	
10/24" x 1"	Fence Bracket with 1-Way Bolt for Safety Signs (Includes 4 brackets, 4 nuts, 4 One way bolts 10/24" x 1"	\$23.25	\$20.95	\$18.85	<input type="button" value="Add To Cart"/>
10/24" x 1"	Fence Bracket with 1-Way Bolt Package of 20 Brackets w/ nuts and one way bolts 10/24" x 1"	\$112.85	\$101.60	\$91.45	<input type="button" value="Add To Cart"/>



**Screwdriver with 1-Way Bit. Installation and removal tool** One Way Bolts Screwdriver

Size	Materials	Price	Enter Quantity
Installation and Removal Tool of SignGuardian Brackets		1	
For 5/16" & 10/24" Bolts	Screwdriver with 1-Way "R" Bit (Includes 7 standard bits plus the proprietary 1/4" 1-Way "R" Bit.)	\$9.90	<input type="button" value="Add To Cart"/>
Replacement Bit		1	
1/4" Bit Only	1/4" 1-Way "R" Bits. Use with Screwdriver above. Replacement part. Sold in packages of 5	\$7.85	<input type="button" value="Add To Cart"/>

#### Low Price Guarantee

We sell high quality safety signs at the lowest prices. If you can find our signs at a lower price, we'll match it!

#### Made in USA

All our safety signs are manufactured by us in New Jersey. We are a veteran owned and operated company.

#### Fast Shipping

Thousands of products ready to ship same day at low discounted UPS® and FedEx® rates.



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