

Analysis of Proposed Speed Safety Camera Locations

Washington State Law (RCW 46.63.220(3)) requires that local jurisdictions evaluate any new or relocated speed safety camera with respect to “the impact of the camera placement on livability, accessibility, economics, education, and environmental health when identifying where to locate an automated traffic safety camera.”

The law does not specify how jurisdictions should conduct this analysis. In consultation with the Washington Traffic Safety Commission, it was confirmed that the intent was to provide flexibility, allowing each jurisdiction to adopt an approach suited to its community context.

Accordingly, the following factors were identified to evaluate livability, accessibility, economics, education, and environmental health for Bellevue’s Speed Safety Camera (SSC) expansion.

Livability

To assess livability, the team evaluated two factors:

1. The potential to **reduce road noise** through lower vehicle speeds.
2. The potential for **traffic diversion** to nearby streets that are not designed to accommodate additional volumes.

Road Noise:

Higher vehicle speeds generate greater road noise. Therefore, locations with posted speed limits above 35 mph are considered to have a *positive livability benefit* from SSC installation. No negative impacts to livability related to road noise are anticipated.

Traffic Diversion:

A qualitative review was conducted of the surrounding local street network near each SSC location. If a nearby parallel local street exists where drivers could divert—or if local drivers might use neighborhood streets longer to avoid the SSC—this is identified as a *negative livability impact*. Any diversion potential is considered a negative effect, even when offset by road noise benefits.

Accessibility

SSC proximity to schools, parks, and hospitals was used to assess accessibility.

Proximity to Schools, Parks, and Hospitals:

Any SSC located within 300 feet of a park or hospital, or within 500 feet of a school (measured via GIS around the parcel boundary), is viewed as having a *positive accessibility impact*. Locations near multiple sensitive land uses are considered very positive.

SSCs are not anticipated to have negative impacts on accessibility. All locations will undergo engineering review to ensure they do not obstruct sight lines or impede sidewalk access for people using mobility devices. Drivers adhering to the speed limit are not expected to experience reduced vehicular access.

Economics

Economic impacts were assessed based on two factors:

1. The **income levels** of nearby residents.
2. Whether the location lies within the **High Speeding Crash Network**.

Low-Income Residents:

GIS analysis identified candidate SSCs located within or adjacent to census block groups with a high concentration of households below the federal poverty line. The goal is to ensure SSCs are not disproportionately concentrated in low-income areas.

High Speeding Crash Network:

Fatal and serious injury (FSI) crashes have significant financial impacts on individuals, families, and the community. SSCs located on the High Speeding Crash Network—where speeding-related FSI crashes are most frequent—are considered to have a *positive economic impact*.

Final Economic Scoring:

- **Potentially Negative:** Located in a low-income area but *not* on the High Speeding Crash Network.
- **Mixed:** Located in a low-income area *and* on the High Speeding Crash Network.
- **Neutral:** Not in a low-income area and *not* on the High Speeding Crash Network.
- **Positive:** Not in a low-income area and *on* the High Speeding Crash Network.

Education

Educational impacts were evaluated based on proximity to schools and neighborhood educational attainment.

School Proximity:

SSCs within 500 feet of a public school are viewed as having a *positive impact*, as reduced speeds enhance safety for students walking or biking to school and may reduce noise and distraction during school hours.

Educational Attainment:

SSCs were evaluated based on their proximity to households with lower educational attainment (high school diploma or less). The goal is to ensure SSCs are not disproportionately concentrated in these areas.

Final Education Scoring:

- **Potentially Negative:** Located in an area with a high concentration of residents with lower educational attainment and *not* near a school.
- **Mixed:** Located in an area with a high concentration of residents with lower educational attainment and *near* a school.
- **Neutral:** Located in an area without a high concentration of residents with lower educational attainment and *not* near a school.
- **Positive:** Located in an area without a high concentration of residents with lower educational attainment and *near* a school.

Environmental Health

Environmental health considers how transportation conditions affect community well-being, particularly for people walking or biking. Two factors were analyzed:

1. **Pedestrian Level of Traffic Stress (PLTS):** This is a measure of how comfortable pedestrians and other sidewalk users are traveling along the sidewalk. The definition for PLTS comes from the Mobility Implementation Plan and is based on the dimensions of the sidewalk, the dimensions of a buffer (e.g., landscaping, parking, bike lanes) separating the sidewalk from traffic, the average daily traffic volumes, and the speed of adjacent traffic. PLTS is organized into four categories. PLTS 1 is the most comfortable, PLTS 4 is very uncomfortable, representing conditions where people will only walk if they absolutely must reach a destination along that route.
2. **High Speed Streets:** Identifies whether the SSC is on a street where the 85th percentile speed exceeds 40 mph based on Jan-Mar 2024 data from Iteris ClearGuide data.

Pedestrian Level of Traffic Stress (PLTS):

SSCs located on roads with a PLTS of 3 or 4 are viewed as having a positive *environmental health impact*, as lower speeds reduce perceived stress and can encourage walking and physical activity.

High-Speed Streets:

SSCs on corridors with an 85th percentile speed of 40 mph or greater are viewed as having a *positive impact*, as the risk of fatal or serious injury rises significantly at higher speeds.

If both conditions are met (PLTS 3–4 and 85th percentile speed ≥ 40 mph), the impact is considered *very positive*.

Summary:

The tables below summarize how the 37 SSC locations scoring 60 or higher perform across the livability, accessibility, economic, education, and environmental health criteria described above.

Table 1: Livability Score Rating for Highly-Rated Potential SSC Locations

ID	Street	Closest Intersection	Road Noise (Speed Limit)	Potential for Diversion	Livability Score
1	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 6TH ST	30	No	Neutral
2	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 11TH ST	30	Yes	Negative
3	BELLEVUE WAY SE	BELLEVUE WAY SE & S BELLEVUE STN	40	No	Positive
7	COAL CREEK PKWY SE	COAL CREEK PKWY SE & FOREST DR SE (SOUTH OF)	40	No	Positive
8	FOREST DR SE	FOREST DR SE & COAL CREEK PKWY SE	30	No	Neutral
36	148TH AVE SE	148TH AVE SE & SE 8TH ST	35	No	Positive
60	NE 8TH ST	124TH AVE NE & NE 8TH ST	35	No	Positive
68	FOREST DR SE	138TH AVE SE & FOREST DR SE	30	No	Neutral
79	RICHARDS RD	RICHARDS RD & SE 21ST PL	35	No	Positive
4	RICHARDS RD	RICHARDS RD & SE 30TH ST	35	No	Positive
5	LAKE HILLS CN	134TH AVE SE & LAKE HILLS CN	40	No	Positive
6	148TH AVE SE	148TH AVE SE & I-90	30	No	Neutral
57	NE 10TH ST	111TH AVE NE & NE 10TH ST	30	No	Neutral
87	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 28TH PL	35	No	Positive
10	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 5TH PL	30	No	Neutral
16	116TH AVE NE	116TH AVE NE & NE 19TH ST	30	No	Neutral
30	SE 8TH ST	143RD PL SE & SE 8TH ST	25	No	Neutral
34	148TH AVE NE	148TH AVE NE & NE 13TH PL	35	No	Positive
37	148TH AVE SE	148TH AVE SE & SE 16TH ST	35	No	Positive
41	156TH AVE NE	156TH AVE NE & NE 3RD ST	25	Yes	Negative
43	NE 24TH ST	NE 24TH ST & 120TH AVE NE	30	No	Neutral
50	NE 12TH ST	106TH PL NE & NE 12TH ST	30	No	Neutral
51	NE 12TH ST	116TH AVE NE & NE 12TH ST	30	No	Neutral
58	NE 8TH ST	106TH AVE NE & NE 8TH ST	30	No	Neutral

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62	LAKE HILLS BLVD	151ST AVE NE & LAKE HILLS BLVD	30	Yes	Negative
67	SE 36TH ST	132ND AVE SE & SE 36TH ST	35	No	Positive
73	LAKEMONT BLVD SE	LAKEMONT BLVD SE & SE 62ND ST	30	No	Neutral
74	FOREST DR SE	152ND AVE SE & FOREST DR SE	30	Yes	Negative
75	150TH AVE SE	149TH AVE SE & SE 40TH ST	30	Yes	Negative
76	148TH PL SE	148TH AVE SE & SE 45TH CT	25	No	Neutral
77	SE 34TH ST	165TH AVE SE & SE 34TH ST	30	Yes	Negative
78	W LAKE SAMMAMISH PKWY SE	SE 31ST PL & W LAKE SAMMAMISH PKWY SE	30	No	Neutral
82	NE 8TH ST	168TH AVE NE & NE 8TH ST	25	No	Neutral
83	132ND AVE NE	132ND AVE NE & NE 47TH ST	30	No	Neutral
88	112TH AVE SE	112TH AVE SE & BELLEFIELD PARK LN	35	No	Positive
89	134TH AVE NE	134TH AVE NE & NE 30TH ST	30	No	Neutral
94	NE 8TH ST	NE 8TH ST & 140TH AVE NE	35	No	Positive

Table 2: Accessibility Score Rating for Highly-Rated Potential SSC Locations

ID	Street	Closest Intersection	Proximity To Schools, Transit, Hospitals (Sum	Accessibility Score
1	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 6TH ST	0	Neutral
2	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 11TH ST	0	Neutral
3	BELLEVUE WAY SE	BELLEVUE WAY SE & S BELLEVUE STN	1	Positive
7	COAL CREEK PKWY SE	COAL CREEK PKWY SE & FOREST DR SE (SOUTH OF)	1	Positive
8	FOREST DR SE	FOREST DR SE & COAL CREEK PKWY SE	1	Positive
36	148TH AVE SE	148TH AVE SE & SE 8TH ST	1	Positive
60	NE 8TH ST	124TH AVE NE & NE 8TH ST	0	Neutral
68	FOREST DR SE	138TH AVE SE & FOREST DR SE	1	Positive
79	RICHARDS RD	RICHARDS RD & SE 21ST PL	0	Neutral
4	RICHARDS RD	RICHARDS RD & SE 30TH ST	0	Neutral
5	LAKE HILLS CN	134TH AVE SE & LAKE HILLS CN	1	Positive
6	148TH AVE SE	148TH AVE SE & I-90	0	Neutral
57	NE 10TH ST	111TH AVE NE & NE 10TH ST	0	Neutral
87	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 28TH PL	1	Positive
10	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 5TH PL	1	Positive
16	116TH AVE NE	116TH AVE NE & NE 19TH ST	0	Neutral
30	SE 8TH ST	143RD PL SE & SE 8TH ST	1	Positive
34	148TH AVE NE	148TH AVE NE & NE 13TH PL	0	Neutral

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37	148TH AVE SE	148TH AVE SE & SE 16TH ST	0	Neutral
41	156TH AVE NE	156TH AVE NE & NE 3RD ST	0	Neutral
43	NE 24TH ST	NE 24TH ST & 120TH AVE NE	0	Neutral
50	NE 12TH ST	106TH PL NE & NE 12TH ST	1	Positive
51	NE 12TH ST	116TH AVE NE & NE 12TH ST	0	Neutral
58	NE 8TH ST	106TH AVE NE & NE 8TH ST	0	Neutral
62	LAKE HILLS BLVD	151ST AVE NE & LAKE HILLS BLVD	1	Positive
67	SE 36TH ST	132ND AVE SE & SE 36TH ST	0	Neutral
73	LAKEMONT BLVD SE	LAKEMONT BLVD SE & SE 62ND ST	1	Positive
74	FOREST DR SE	152ND AVE SE & FOREST DR SE	1	Positive
75	150TH AVE SE	149TH AVE SE & SE 40TH ST	0	Neutral
76	148TH PL SE	148TH AVE SE & SE 45TH CT	0	Neutral
77	SE 34TH ST	165TH AVE SE & SE 34TH ST	0	Neutral
78	W LAKE SAMMAMISH PKWY SE	SE 31ST PL & W LAKE SAMMAMISH PKWY SE	0	Neutral
82	NE 8TH ST	168TH AVE NE & NE 8TH ST	0	Neutral
83	132ND AVE NE	132ND AVE NE & NE 47TH ST	0	Neutral
88	112TH AVE SE	112TH AVE SE & BELLEFIELD PARK LN	0	Neutral
89	134TH AVE NE	134TH AVE NE & NE 30TH ST	0	Neutral
94	NE 8TH ST	NE 8TH ST & 140TH AVE NE	0	Neutral

Table 3: Economics Score Rating for Highly-Rated Potential SSC Locations

ID	Street	Closest Intersection	Low Income Census Block Group	High Speeding Crash Network	Economics Score
1	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 6TH ST	Yes	Yes	Mixed
2	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 11TH ST	No	Yes	Positive
3	BELLEVUE WAY SE	BELLEVUE WAY SE & S BELLEVUE STN	No	Yes	Positive
7	COAL CREEK PKWY SE	COAL CREEK PKWY SE & FOREST DR SE (SOUTH OF)	No	Yes	Positive
8	FOREST DR SE	FOREST DR SE & COAL CREEK PKWY SE	No	Yes	Positive
36	148TH AVE SE	148TH AVE SE & SE 8TH ST	Yes	Yes	Mixed
60	NE 8TH ST	124TH AVE NE & NE 8TH ST	No	Yes	Positive
68	FOREST DR SE	138TH AVE SE & FOREST DR SE	No	Yes	Positive
79	RICHARDS RD	RICHARDS RD & SE 21ST PL	Yes	No	Potentially Negative
4	RICHARDS RD	RICHARDS RD & SE 30TH ST	No	Yes	Positive

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5	LAKE HILLS CN	134TH AVE SE & LAKE HILLS CN	Yes	Yes	Mixed
6	148TH AVE SE	148TH AVE SE & I-90	No	Yes	Positive
57	NE 10TH ST	111TH AVE NE & NE 10TH ST	No	Yes	Positive
87	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 28TH PL	No	No	Neutral
10	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 5TH PL	No	Yes	Positive
16	116TH AVE NE	116TH AVE NE & NE 19TH ST	No	Yes	Positive
30	SE 8TH ST	143RD PL SE & SE 8TH ST	No	Yes	Positive
34	148TH AVE NE	148TH AVE NE & NE 13TH PL	No	Yes	Positive
37	148TH AVE SE	148TH AVE SE & SE 16TH ST	Yes	Yes	Mixed
41	156TH AVE NE	156TH AVE NE & NE 3RD ST	No	Yes	Positive
43	NE 24TH ST	NE 24TH ST & 120TH AVE NE	No	Yes	Positive
50	NE 12TH ST	106TH PL NE & NE 12TH ST	No	Yes	Positive
51	NE 12TH ST	116TH AVE NE & NE 12TH ST	No	Yes	Positive
58	NE 8TH ST	106TH AVE NE & NE 8TH ST	No	Yes	Positive
62	LAKE HILLS BLVD	151ST AVE NE & LAKE HILLS BLVD	Yes	Yes	Mixed
67	SE 36TH ST	132ND AVE SE & SE 36TH ST	No	Yes	Positive
73	LAKEMONT BLVD SE	LAKEMONT BLVD SE & SE 62ND ST	No	No	Neutral
74	FOREST DR SE	152ND AVE SE & FOREST DR SE	No	No	Neutral
75	150TH AVE SE	149TH AVE SE & SE 40TH ST	No	No	Neutral
76	148TH PL SE	148TH AVE SE & SE 45TH CT	No	No	Neutral
77	SE 34TH ST	165TH AVE SE & SE 34TH ST	No	No	Neutral
78	W LAKE SAMMAMISH PKWY SE	SE 31ST PL & W LAKE SAMMAMISH PKWY SE	No	No	Neutral
82	NE 8TH ST	168TH AVE NE & NE 8TH ST	No	No	Neutral
83	132ND AVE NE	132ND AVE NE & NE 47TH ST	No	No	Neutral
88	112TH AVE SE	112TH AVE SE & BELLEFIELD PARK LN	No	No	Neutral
89	134TH AVE NE	134TH AVE NE & NE 30TH ST	No	No	Neutral
94	NE 8TH ST	NE 8TH ST & 140TH AVE NE	No	No	Neutral

Table 4: Education Score Rating for Highly-Rated Potential SSC Locations

ID	Street	Closest Intersection	Within 500 ft of a School?	Educational Background Census Data	Education Score
1	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 6TH ST	No	Yes	Potentially Negative
2	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 11TH ST	No	Yes	Potentially Negative

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3	BELLEVUE WAY SE	BELLEVUE WAY SE & S BELLEVUE STN	No	Yes	Potentially Negative
7	COAL CREEK PKWY SE	COAL CREEK PKWY SE & FOREST DR SE (SOUTH OF)	No	No	Neutral
8	FOREST DR SE	FOREST DR SE & COAL CREEK PKWY SE	No	No	Neutral
36	148TH AVE SE	148TH AVE SE & SE 8TH ST	No	Yes	Potentially Negative
60	NE 8TH ST	124TH AVE NE & NE 8TH ST	No	No	Neutral
68	FOREST DR SE	138TH AVE SE & FOREST DR SE	No	No	Neutral
79	RICHARDS RD	RICHARDS RD & SE 21ST PL	No	No	Neutral
4	RICHARDS RD	RICHARDS RD & SE 30TH ST	No	Yes	Potentially Negative
5	LAKE HILLS CN	134TH AVE SE & LAKE HILLS CN	No	Yes	Potentially Negative
6	148TH AVE SE	148TH AVE SE & I-90	No	No	Neutral
57	NE 10TH ST	111TH AVE NE & NE 10TH ST	No	No	Neutral
87	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 28TH PL	No	No	Neutral
10	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 5TH PL	No	No	Neutral
16	116TH AVE NE	116TH AVE NE & NE 19TH ST	No	No	Neutral
30	SE 8TH ST	143RD PL SE & SE 8TH ST	Yes	Yes	Mixed
34	148TH AVE NE	148TH AVE NE & NE 13TH PL	No	Yes	Potentially Negative
37	148TH AVE SE	148TH AVE SE & SE 16TH ST	No	Yes	Potentially Negative
41	156TH AVE NE	156TH AVE NE & NE 3RD ST	No	Yes	Potentially Negative
43	NE 24TH ST	NE 24TH ST & 120TH AVE NE	No	No	Neutral
50	NE 12TH ST	106TH PL NE & NE 12TH ST	No	No	Neutral
51	NE 12TH ST	116TH AVE NE & NE 12TH ST	No	No	Neutral
58	NE 8TH ST	106TH AVE NE & NE 8TH ST	No	No	Neutral
62	LAKE HILLS BLVD	151ST AVE NE & LAKE HILLS BLVD	No	Yes	Potentially Negative
67	SE 36TH ST	132ND AVE SE & SE 36TH ST	No	No	Neutral
73	LAKEMONT BLVD SE	LAKEMONT BLVD SE & SE 62ND ST	No	No	Neutral
74	FOREST DR SE	152ND AVE SE & FOREST DR SE	No	No	Neutral
75	150TH AVE SE	149TH AVE SE & SE 40TH ST	No	No	Neutral
76	148TH PL SE	148TH AVE SE & SE 45TH CT	No	No	Neutral
77	SE 34TH ST	165TH AVE SE & SE 34TH ST	No	No	Neutral
78	W LAKE SAMMAMISH PKWY SE	SE 31ST PL & W LAKE SAMMAMISH PKWY SE	No	No	Neutral

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82	NE 8TH ST	168TH AVE NE & NE 8TH ST	No	No	Neutral
83	132ND AVE NE	132ND AVE NE & NE 47TH ST	No	No	Neutral
88	112TH AVE SE	112TH AVE SE & BELLEFIELD PARK LN	No	Yes	Potentially Negative
89	134TH AVE NE	134TH AVE NE & NE 30TH ST	No	No	Neutral
94	NE 8TH ST	NE 8TH ST & 140TH AVE NE	No	No	Neutral

Table 5: Environmental Health Score Rating for Highly-Rated Potential SSC Locations

ID	Street	Closest Intersection	Pedestrian LTS	85th Percentile Speed 40+ mph	Environmental Health Score
1	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 6TH ST	3	No	Positive
2	BELLEVUE WAY SE	BELLEVUE WAY SE & SE 11TH ST	3	No	Positive
3	BELLEVUE WAY SE	BELLEVUE WAY SE & S BELLEVUE STN	3	Yes	Very Positive
7	COAL CREEK PKWY SE	COAL CREEK PKWY SE & FOREST DR SE (SOUTH OF)	3	Yes	Very Positive
8	FOREST DR SE	FOREST DR SE & COAL CREEK PKWY SE	2	No	Neutral
36	148TH AVE SE	148TH AVE SE & SE 8TH ST	3	Yes	Very Positive
60	NE 8TH ST	124TH AVE NE & NE 8TH ST	3	Yes	Very Positive
68	FOREST DR SE	138TH AVE SE & FOREST DR SE	2	No	Neutral
79	RICHARDS RD	RICHARDS RD & SE 21ST PL	3	Yes	Very Positive
4	RICHARDS RD	RICHARDS RD & SE 30TH ST	3	Yes	Very Positive
5	LAKE HILLS CN	134TH AVE SE & LAKE HILLS CN	2	Yes	Positive
6	148TH AVE SE	148TH AVE SE & I-90	2	Yes	Positive
57	NE 10TH ST	111TH AVE NE & NE 10TH ST	1	No	Neutral
87	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 28TH PL	3	Yes	Very Positive
10	BELLEVUE WAY NE	BELLEVUE WAY NE & NE 5TH PL	1	No	Neutral
16	116TH AVE NE	116TH AVE NE & NE 19TH ST	1	No	Neutral
30	SE 8TH ST	143RD PL SE & SE 8TH ST	2	No	Neutral
34	148TH AVE NE	148TH AVE NE & NE 13TH PL	3	Yes	Very Positive
37	148TH AVE SE	148TH AVE SE & SE 16TH ST	2	Yes	Positive
41	156TH AVE NE	156TH AVE NE & NE 3RD ST	2	No	Neutral
43	NE 24TH ST	NE 24TH ST & 120TH AVE NE	2	No	Neutral
50	NE 12TH ST	106TH PL NE & NE 12TH ST	1	No	Neutral
51	NE 12TH ST	116TH AVE NE & NE 12TH ST	1	No	Neutral
58	NE 8TH ST	106TH AVE NE & NE 8TH ST	1	No	Neutral

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62	LAKE HILLS BLVD	151ST AVE NE & LAKE HILLS BLVD	2	No	Neutral
67	SE 36TH ST	132ND AVE SE & SE 36TH ST	2	No	Neutral
73	LAKEMONT BLVD SE	LAKEMONT BLVD SE & SE 62ND ST	3	No	Positive
74	FOREST DR SE	152ND AVE SE & FOREST DR SE	2	No	Neutral
75	150TH AVE SE	149TH AVE SE & SE 40TH ST	2	No	Neutral
76	148TH PL SE	148TH AVE SE & SE 45TH CT	2	No	Neutral
77	SE 34TH ST	165TH AVE SE & SE 34TH ST	2	No	Neutral
78	W LAKE SAMMAMISH PKWY SE	SE 31ST PL & W LAKE SAMMAMISH PKWY SE	2	No	Neutral
82	NE 8TH ST	168TH AVE NE & NE 8TH ST	2	No	Neutral
83	132ND AVE NE	132ND AVE NE & NE 47TH ST	2	No	Neutral
88	112TH AVE SE	112TH AVE SE & BELLEFIELD PARK LN	3	Yes	Very Positive
89	134TH AVE NE	134TH AVE NE & NE 30TH ST	2	No	Neutral
94	NE 8TH ST	NE 8TH ST & 140TH AVE NE	3	No	Very Positive