SE Foster Road High Crash Corridor
Existing Conditions Report
May 2011

Key Findings

- The incidence of crashes involving alcohol is higher in this corridor than the Citywide average.
- The incidence of crashes caused by drivers disregarding traffic signals is about 60% higher than the Citywide average. Signal disregard crashes are almost always classified as 'turning' or 'angle' crashes which typically result in more injuries and deaths.
- The incidence of 'fixed object' and 'head-on' crashes east of 128th Avenue is higher than the corridor average to the west and significantly higher than the Citywide average. .
- Approximately 26% of the corridor is lacking sidewalks or pedestrian amenities. The majority of missing sidewalk is located east of 136th Avenue with no sidewalk facilities east of Barbara Welch Road.
- Bicycle facilities are lacking on Foster west of 90th Avenue. However, all existing and proposed bicycle crossings on Foster occur at traffic signals.
- The average distance between pedestrian crossing improvements (signals or pedestrian islands) is 1120 feet, or nearly ¼ mile.

Summary of Corridor Crash Data

Corridor Data Overview	
Average daily traffic volume	Ranges from 20,500 to 29,500 west of 128th Avenue; Ranges from 18, 300 to 21,200 east of 128th Avenue.
Roadway section curb to curb	West of 128th: Typically 2 travel lanes in each direction, with center turn lane east of I-205 and and parking on one or both sides. East of 128th: Typically 1 travel lane in each direction, some areas with center turn lane, bike lanes and parking.
Total roadway width	West of 128th: 40' to 76'; East of 128th: 25' to 50'
Total length of corridor	32,425 feet (6.1 miles)
Posted speed	West of 128th = 35 mph & 40 mph; East of 128th = 40 mph

Crash Summary Data, 2000-2009			
Injuries and Fatalities		**Crashes by Top 3 Location Types**	
11	Fatalities	1224	Intersection crashes (55%)
36	Injuries of type A severity (incapacitating)	785	Roadway straight section crashes (35%)
201	Injuries of type B severity (non-incapacitating)	174	Alley relate crashes (access management) (8%)
588	Injuries of type C severity (pain)		
1292	Property damage only crashes	**Crashes by Top Collision Types**	
2212	Total Reported Crashes from 2000-2009	927	Rear-end (42%)
		570	Turning (26%)
37	Total crashes involving pedestrians	306	Angle (14%)
34	Total crashes involving bicyclists	206	Sideswipe – Passing (9%)
		86	Fixed Object (4%)

2006-2009 High Crash Intersection Locations Along Foster Raod		
Foster Road at SE 82nd Avenue		67 crashes, including 2 ped crashes & 1 bike crash
Foster Road at SE 96th Avenue		63 crashes, including 1 bicycle crash
Foster Road at SE 92nd Avenue		50 crashes, including 1 pedestrian crash
Foster Road at SE 94th Avenue		42 crashes
Foster Road at SE 122nd Avenue		41 crashes, including 1 pedestrian crash

Sidewalk Infrastructure Needs

South side of Foster	Lineal Feet		North side of Foster	Lineal Feet
SE 94th to SE 96th	440		West of 107th	250
SE 106th to SE 110 Dr (future BES)	1600		108th to 110th	480
SE 110th Dr to SE Foster Pl.	620		East of SE 111th Ave	110
SE 136th to SE 137th	230		SE Foster Pl	100
SE 139th to SE 143rd	1170		136th to 139th	660
SE Barbara Welch Rd to SE Jenne Rd	5060		140th to 141st	255
			141st to 142nd	330
Total Feet	9120		SE 142nd to SE 145th	365
% of corridor	28		SE Barbara Welch Rd to SE 162nd	5060
			Total feet	7610
			% of corridor	23

Bicycle Deficiencies

- Bicycle facilities are lacking on Foster. Gaps exist west of 92nd Avenue and east of 136th Avenue. The 2030 Plan identifies future bike lanes or separated facilities on Foster.
- All existing and future crossings in the 2030 Plan are at signalized intersections.

Curb Ramp Deficiencies

Legend	
N	No curb ramp
O	Existing "old style" curb ramp, one direction, no domes
O2	Existing "old style" curb ramp, two directions, no domes
W1	Existing "new style" curb ramps, one direction, yellow domes
W2	Existing "new style" curb ramps, two directions, yellow domes
U	No Sidewalk/Unfinished Crossing
X	No Crossing
-	No through street "T" intersection

Street at SE Foster Rd.	**NW**	**SW**	**SE**	**NE**
Powell	W1	O	W1	W1
Lafayette	N	O	O	N
51st Ave	-	O	O	-
52nd Ave	O	O2	O2	O2
Bush	O	O2	O	O
54th Ave	O	O	O	O
Francis	N	O2	-	O
56th Ave	W2	O	O2	W2
Center	-	O2	O	-
Gladstone/58th Ave.	O	O	W2	W2
Boise	-	O	O	-
60th Ave	O	O	O	O
Cora	W2	W1	-	O
61st Ave	-	O	O	-
62nd Ave	O	-	-	O
Holgate	O2	O	O2	O2
63rd Ave	O	O	O	O
64th Ave	W1	O2	O	W1
65th Ave	-	W2	O	-
66th Ave	O	O	O	O
67th Ave	O	O2	O	O2
68th Ave	O	-	-	O
69th Ave	W1	-	-	O
70th Ave	O	O	O	O
71st Ave	O	O	O2	O
72nd Ave	O	O2	O	O
73rd Ave	-	O	O	-
74th Ave	O	O	O	O
75th Ave	O	-	-	O
76th Ave	O	-	-	O
77th Ave	-	O	O	-
78th Ave	O	O	O	O
79th Ave	O	O	O	O
80th Ave	N	O	O	O
82nd Ave	O2	O2	O	O
Ellis/83rd Ave.	W1	O	O	W2

Curb Ramp Deficiencies (cont.)				-
Street at SE Foster Rd.	**NW**	**SW**	**SE**	**NE**
86th Ave	O	O	O	O
87th Ave	O2	W2	O	O
88th Ave	O	O	O	O
89th Ave	-	W1	W1	-
Woodstock	W1	W1	W1	W2
91st Ave	O	O	O	O
92nd Ave	O	O	O	O
I-205 Ramps, west	W1	W1	X	O
I-205 Ramps, east	W1	X	W1	O
97th Ave	O	O	O	O
98th Ave/Woodstock	-	O	O	-
Woodstock Ct.	-	O	O	-
101st Ave	O	O	O	O
102nd Ave	O	O	O	O
103rd Ave	N	-	-	N
103rd Pl.	N	-	-	N
106th Ave	-	N	N	-
107th Ave	N	-	-	N
108th Ave	-	N	N	-
110th Dr/111th Ave	N	O	N	N
Foster Pl.	N	N	N	N
122nd Ave	O	O	O	O
128th Ave	O	W1	W2	O
129th Pl	-	W1	W2	-
131st Pl.	-	O	O	-
134th Ave	O	W1	O	O
135th Ave	-	O	O	-
136th Ave	O	O	U	O
137th Ave	-	O	W1	-
139th Ave	-	O	O	-
140th Ave	O2	U	U	O
141st Ave	O	U	O	U
142nd Ave	U	U	U	U
143rd Ct.	O	O	O	O
145th Ave.	U	-	-	W1
Barbara Welch	X	W1	W1	W1
158th Ave	U	-	-	U
159th Dr.	U	-	-	U
162nd Ave	U	U	U	X
Jenne Rd	U	U	U	U

Distance between Traffic Signals

Note: Distances are approximate to the center of the intersection

Distance	Signal Location to Signal Location
890'	SE Powell to SE 52nd Ave
1125'	SE 52nd Ave to SE 56th Ave
2225'	SE 56th Ave to SE Holgate Blvd.
445'	SE Holgate Blvd. to SE 64th Ave
770'	SE 64th Ave to SE 67th Ave
1535'	SE 67th Ave to SE 72nd Ave
1625'	SE 72nd Ave to SE 78th Ave
1335'	SE 78th Ave to SE 82nd Ave
1570'	SE 82nd Ave to SE 87th Ave
1310'	SE 87th Ave to SE 92nd Ave
470'	SE 92nd Ave to I-205 SB/94th Ave.
590’	I-205 SB/94th Ave. to I-205 NB
1375'	I-205 NB to 101st Ave
1045'	SE 101st Ave to Springwater Trail
1710’	Springwater Trail to SE 110th Dr.
3160’	SE 110th Dr. to SE 122nd Ave.
1275’	SE 122nd Ave. to SE 128th Ave.
1545’	SE 128th Ave. to SE 134th Ave.
650’	SE 134th Ave. to SE 136th Ave.
2740’	SE 136th Ave. to SE Barbara Welch Rd.
3900’	SE Barbara Welch Rd. to SE 162nd Ave.
1130’	SE 162nd Ave. to SE Jenne Rd.

Pedestrian Island Locations

Distance to nearest Signals in both directions	Pedestrian Island Location
575'/800'	SE Gladstone
790'/890’	SE Cora
265'/500'	65th Avenue
400'/1140'	69th Avenue
835'/530'	80th Avenue
2550'/605'	120th Avenue

Transit Stops

SE Foster Road is serviced by Tri-Met Line #14 west of I-205 and Line #71 east of I-205.

Distance between Tri-Met Bus Stops and Traffic Signals or Pedestrian Islands

Note: Bus stops are associated with nearest intersection. Distances are approximate to the center of the intersections.

Distance	Tri-Met Bus Stop to Crossing Improvement (Inbound only)	Tri-Met Boardings (Inbound only)		
		On	Off	Total
0’	SE 52nd Ave. (signal)	69	59	128
0’	SE 56th Ave. (signal)	18	8	26
0’	SE 58th Ave. (island)	35	10	45
0’	SE Cora St. (island)	19	15	34
0'	SE Holgate St. (signal)	97	30	127
0'	SE 65th Ave. (island)	45	33	78
0'	SE 67th Ave. (signal)	36	17	53
100’	SE 69th Ave.	43	30	73
0'	SE 72nd Ave. (signal)	107	34	141
660’	SE 74th Ave.	30	10	40
0’	SE 78th Ave. (signal)	55	6	61
0’	SE 80th Ave. (island & beacons)	167	21	188
0'	SE 82nd Ave. (signal)	110	56	166
430’	SE 86th Ave.	14	6	20
280’	SE 88th Ave.	34	2	36
0’	SE 92nd Ave.	47	1	48
0'	SE 94th Ave. (signal)	22	1	23
0’	I-205 NB (signal)	245	1	246
370’	SE 97th Ave.	19	252	271
0’	SE 101st Ave. (signal)	1	11	12
435’	SE 103rd Ave.	1	6	7
735’	SE 107th Ave.	0	0	0
0’	SE 111th Ave.	4	10	14
895’	11600 Block SE Foster	6	15	21
110’	SE 120th Ave. (island)	3	9	12
0’	SE 122nd Ave. (signal)	16	83	99

Top 5 highest boarding locations without pedestrian crossing improvements and distance to nearest traffic signal or pedestrian island.

1. SE 97th Avenue – 370’
2. SE 69th Avenue – 100’
3. SE 74th Avenue – 660’
4. SE 88th Avenue – 280’
5. 11600 Block SE Foster – 895’

Resources

Foster Road Streetscape Plan (2003)
Relevant Project objectives from 50th to 90th:

- Add street trees, planters, flower baskets and more landscaping
- Improve lighting
- Move sidewalk obstructions to ensure clear access and views
- Increase opportunities for pedestrian crossings, and improve crossing safety, including school crossings.
- Provide buffers between pedestrians and moving vehicles
- Reduce curb cuts
- Ensure ADA-compliant curb ramps are in place
- Slow traffic on the street
- Synchronize signals
- Improve intersections and crossings for safety and clarity
- Ensure adequate on-street parking exists to serve businesses
- Provide consistently spaced bus stops and transit stop amenities
- Reduce travel time on corridor
- Provide parking for bicycles
- Provide safe bicycle crossings where designated bike routes cross Foster
- Investigate the possibility of adding bike lanes on Foster