

### INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee

FROM: Henry Hash, Public Works Director 4.4

BY: Cyndy Knighton, Senior Program Manager

CC: Mayor Ekberg

DATE: October 19, 2018

SUBJECT: <u>Traffic Calming/Safety Improvements Priorities</u>

### ISSUE

Update the Committee on the prioritization process on traffic calming requests and safety improvement needs.

### **BACKGROUND**

During the September 10, 2018 Transportation and Infrastructure Committee meeting, staff presented a list of locations where traffic calming treatments have been requested on residential streets as well as 8 locations on commercial streets where safety improvements have been identified. The Committee directed staff to bring back the list with some prioritization of the projects for further discussion.

### DISCUSSION

Staff scored the residential locations applying the existing criteria and point schedule in the Neighborhood Traffic Calming Program (NTCP) on the 9 locations where full data was available. The remaining 13 locations have not yet been scored as the necessary data collection has not been completed. While working through the scoring criteria, staff sees the need to revise the criteria in some locations to accommodate locations near all major pedestrian generators and not just K-12 schools. The highest scoring location for the residential locations is currently the S 144<sup>th</sup> Street at 46<sup>th</sup> Avenue S intersection where a Rectangular Rapid Flashing Beacon (RRFB) has been installed at the marked crosswalk. This location is a portion of a larger project to improve safety for school children that Tukwila applied for a Safe Routes to School Grant earlier this year. Project awards have not yet been announced.

On the commercial locations, the NTCP scoring criteria cannot be applied as it is designed for residential and collector streets with Average Daily Traffic (ADT) volumes of 7,000 or less. Some of the commercial locations have begun design using Traffic Impact Fee funds and one location has already received funding for design and construction through a recently awarded grant. Staff has assigned some preliminary rankings after considering the known urgency of need, status on design, funding availability, and engineering judgement.

ADA Accessibility Scores have been included for both the residential and commercial locations. This information could be considered as a factor when assigning a priority ranking as it addresses safety and accessibility needs.

### RECOMMENDATION

Staff recommends continuing refining the scoring and ranking system in the NTCP to meet the needs and priorities of the City.

### **ATTACHMENTS**

- Priority List for Traffic Calming and Safety Improvements
- Map of Locations
- Scoring worksheet from the Neighborhood Traffic Calming Program

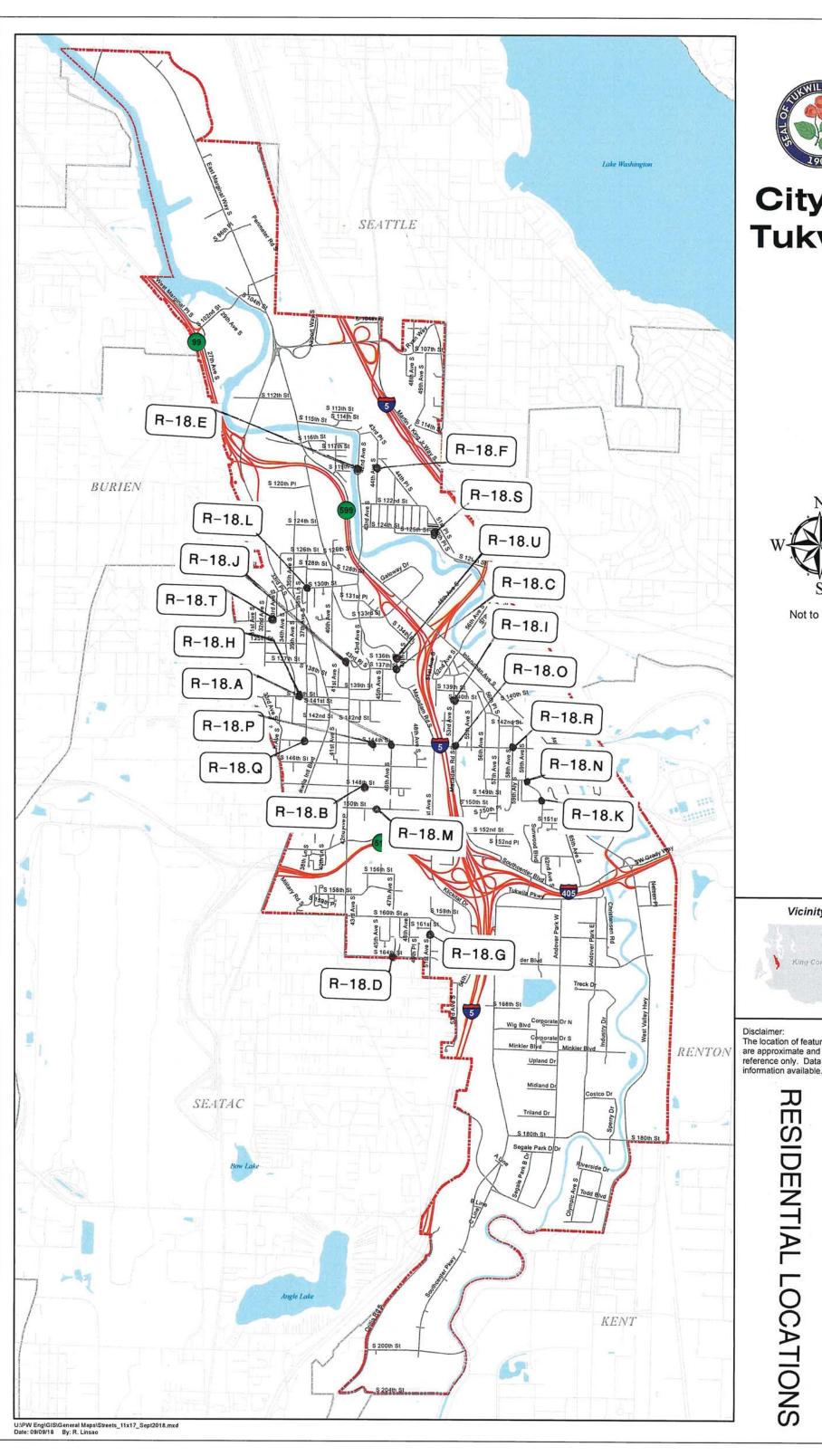
## **Priority List for Traffic Calming and Safety Improvements**

	\$680K								ations	n priority loc	Accessibility scores of <b>36</b> or higher are considered high priority locations	ty scores o	Accessibili	
requested	2	Speed Cushions/pair							Speeding/truck traffic	Speed	Macadam rd s at 13600 blk	n/a	n/a	R-18.V
No current traffic data, on schedule soon This is signed for no trucks, speed cushions	6k	Radar sign Temp/Permanent							Speeding		S.132nd St at 33rd Ave S	n/a	n/a	R-18.U
No current traffic data, on schedule soon	6k	Radar sign Temp/Permanent							Speeding		50th Ave S at S 125th Pl	n/a	n/a	R-18.T
No evidence of a speeding issue. PD and radar sign studies.		No Action							Speeding		58th Ave S at S.144th St	n/a	36	R-18.S
Refuge islands and ADA ramps required	190k	RRFB with marked crossing							Crossing safety/marked xing	Crossing	TiB at S.141st St	n/a	36	R-18.R
At Cascade view park	32k	RRFB with marked crossing				-			Crossing safety/marked xing	Crossing	S.144th St at 37th Ave S	n/a	15	R-18.Q
ADA ramp improvements required	13k	Marked crossing w/signs and ADA ramps						7,400 (13 hrs)	School Crossing 7,4 safety/marked xing	Sch safet	S.144th St at 44th Pl	n/a	25	R-18.P
ADA ramp improvements required	80k	RRFB with marked crossing							School Crossing safety/marked xing	Sch safet	S.144th St at Macadam Rd	n/a	36	R-18.0
ADA ramp improvements required	80k	RRFB with marked crossing							School Crossing safety/marked xing	Sch safet	S.147th St at 59th Ave S	n/a	36	R-18.N
This was to be addressed with School remodeling	80k	RRFB with marked crossing	0	0	0	12			School Crossing safety/marked xing		S.150th St at Thorndyke Elementary	n/a	36	R-18.M
No current traffic data, on schedule soon	17k	Speed Cushions/pair	0	0	0	0			Speeding		S.130th St at 37th Ave S	n/a	16	R-18.L
Design work complete for ADA improvements.	80k	RRFB with remarked crossing	0	0	ъ	ь		1,600		Sch saf	62nd Ave at 149th	n/a	36	R-18.K
Homeowner association claims 3 road departures in past year	終	Led light warning signs (4)	0	ω	1	4			Speeding/curve safety	Speed	42nd Ave S at 13700 blk	n/a	25	R-18.J
	17k	Speed Cushions/pair	0	0	0	0	3 28	3,000 23	Speeding 3		53rd Ave S at S.140th	ω	15	R-18.I
	6k	Permanent Radar sign	0	0	0	0	) 25	3,700 20	Speeding 3		S.140th at 3500 blk	4	15	R-18.H
	6k	Permanent Radar sign	0	0	0	ω	30	3,300 25	Speeding 3		51st Ave S 16200 Block	6	25	R-18.G
No evidence of a speeding issue. PD and radar sign studies.		No Action	0	0	0	ъ	7 21	700 17	Speeding		44th Ave S at 11800 blk	7	n/a	R-18.F -
85%tile is low but regular dangerous violators	17k	Speed Cushions/pair	0	0	2	1	3 29	3,800 23	Speeding 3		42nd Ave S at 11900 blk	7	25	R-18.E 4
	6k	Permanent Radar sign	0	0	0	0	30	1,800 25	Speeding 1		S.164th at 4700 blk	7	n/a	R-18.D
	6k	Permanent Radar sign	0	0	0	0	5 29	2,500 26	Speeding/school bus stop 2	Speedin	Macadam rd s at 13700 blk	∞	n/a	R-18.C 3
	17k	Speed Cushions/pair	0	0	0	1	1 26	1,300 21	Speeding 1		S.148th St at 4400 blk	9	n/a	R-18.B 2
RRFB is ordered, to be install before school year. Safe Routes to School Grant	13k	RRFB with remarked crossing	0					ω	fety	Schoo	S.144th at 46th Ave S	18		
Comments	₩.	Option 1	Fatality	st Injury	O Peda-cyclist	%ile ed PDO	age 85th %ile ed Speed	Average Average Volume Speed	Ave Safety issue(s) Volu	Sa	Residential Locations	NTCP Score	Accessabili  ty Score	ldentifier Rank
	ments	Potential Revisions/Improvements		2013-2017 Accidents	2013-20								ADA	

# Priority List for Traffic Calming and Safety Improvements

						COM	<b>COMMERCIAL LOCATIONS</b>	VI LOCA	TIONS					
									2013-2017 Accidents	Accidents		Potential Bevisions/Improvements	vements	
	<b>ADA Accessability</b>				Average	Average	85th %ile							
Identifier	Score	Notes	Commerical Locations	Safety issue(s)	Volume	Speed	Speed	PDO	Peda-cyclist	Injury	Fatality	Option 1	\$	Comments
C-18.A	28		Southcenter Blvd at 65th	Speeding, left turn delays, high ped crossings	9,300	35	40	10	2	1	0	RRFB/radar sign/rechannel	\$190k	Signal warranted, radar sign and RRFB as interim
C-18.B	26		Southcenter Blvd at 62nd	Speeding, left turn delays, high ped crossings	008'6	35	40	10	4	4	0	Traffic Signal	\$750k-1M	Existing RRFB
C-18.C	25		TIB at 5.140th st	Pedestrian safety and left turn delays	16,000			19	1	10	0	RRFB Traffic Signal	\$200k \$750k-1M	High pedestrian traffic area
C18-D	20	*	Andover Park East at Minkler	Left turn delays	12,000			1	0	3	0	Signal revision & rechan	\$2M	60% design completed
C18-E	20	*	Andover Park East at Industry Dr	Pedestrian safety and left turn delays	12,000			1	1	2	0	Traffic Signal	\$850k	60% design completed
C18-F	15	+	S.133rd at SR 599 on/off ramp	Left turn delays	10,000			2	0	2	0	Traffic Signal Roundabout	\$1.9- 2.4M	Feasiblity report but no design
C18-G	35	#	West Valley Hwy at Ped bridge	pedestrian access/safety	28,800			25	0	16	0	Full Pedestrian signal	\$750k-1M	Currently under design for West Valley improvements
C18-H	n/a		Flashing Yellow arrow revisions to signalized left turns throughout the City	Pedestrian safety and left turn delays	Varies							List to be compiled on case by case studies. Many locations possible.	\$5k each	FYA operation is safer for pedestrains and increases intersection capacity when used in lieu of protect only phasing.
		* 60% de: + Feasibili # Grant fu	<ul> <li>* 60% design is complete, project is shelved pending additional funding</li> <li>+ Feasibility report is complete</li> <li># Grant funds for design and construction in hand, negotiating scope and fee for design</li> </ul>	ling additional funding ', negotiating scope and fee fo	ır design								\$6.6 - \$8.5M	

### RESIDENTIAL LOCATIONS





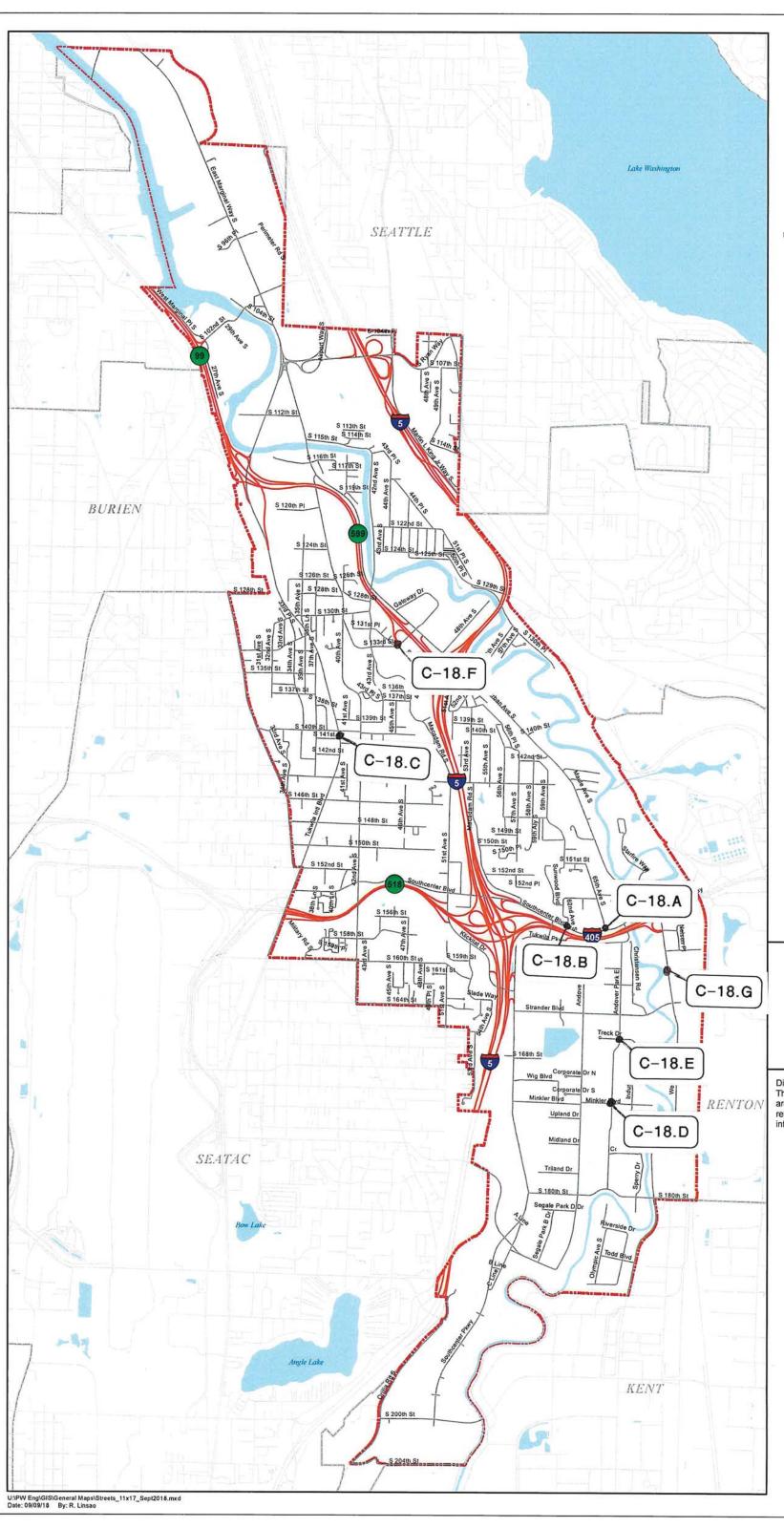




The location of features and boundaries are approximate and are intended for reference only. Data is based on best

RESIDENTIAL LOCATIONS







### City of Tukwila



Not to Scale





Disclaimer:
The location of features and boundaries are approximate and are intended for reference only. Data is based on best information available.





Appendix C: Priority Point Worksheet.	
Location:	
Date:	
Staff Name:	
Category	Points
1. <b>Accidents:</b> 1pts for each recorded accident of the roadway for the past 3years	
2. <b>Volume:</b> Average daily traffic volumes (weekday) divided by 100	
3. <b>Speed:</b> 5pts for every mph more than 5-10mph above the posted speed limit	
4. <b>Sidewalks:</b> If sidewalks exist 0pts; if not 5pts	
5. <b>School:</b> 10pts for each school within the impacted area	
Total Points:	· ·
Speed, Accident and Volume Data	
Volume =	

**Basis for Point Assignment Chart** 

85% Speed = \_\_\_\_\_

% 10mph above = \_\_\_\_\_

Criteria	Basis for Point Assignment
Accidents	10 points for each recorded accident of roadway for the past three years total (5
	points will be added if there an injury reported)
Speed	5 points for every mph greater than 10mph above the posted speed or [(85th
	percentile speed limit – 10 mph – posted speed limit) x 5 points]
Volume	1 point for every 200 vehicles
(Residential)	Average daily traffic volumes (weekday)
Volume	1 point for every 500 vehicles
(Collector)	Average daily traffic volumes (weekday)
Sidewalks	5 points if there is not a continuous sidewalk on one side of residential streets
	or both sides of collectors
Schools	5 points for every school within the impact area and 2 points for school
	property within 500 ft of the impact area