



NORTH VANCOUVER
DISTRICT

Sunset Boulevard Traffic Calming Alternatives



Committee of the Whole
April 27, 2015

Sunset Boulevard



Looking South - Horizontal Curve at Hillcrest



Looking North – Limited sight lines with parked vehicles on both sides



Looking south – limited sightlines at driveways



Looking south –hidden intersection sign and 30km/h warning sign approaching Hillcrest

Speed Humps



- **Reduce speeds to approx. 28-32 km/hour**
- **Low cost ~\$4,000**
- **Best practice to achieve vehicle speeds consistently under 50 km/hour**
- **Works well with existing parking, pedestrian and cycling activities**
- **May increase roadway noise**
- **May slow emergency vehicles**

Raised Crosswalks or Tables



- **Reduce speeds to approx.
40-48 kilometre/hour**
 - **Noise may be reduced due to long profile**
 - **Low cost ~\$6,000**
 - **Enhances pedestrian safety**
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- **May slow emergency vehicles**

Traffic Circles



- Can give identity to neighbourhood
- Reduces speeds
- Minimal noise impacts
- Higher cost
~\$15,000 – \$20,000
- May require landscape maintenance
- Difficult for cyclists and pedestrians to navigate

Curb Bulges



- Reduce turning speeds
- Improve pedestrian visibility and reduce crossing distance
- High cost ~\$20,000
- May require landscaping and maintenance
- Narrows road width which can be a concern for cyclists
- Minimal benefit in terms of speed reduction

Centre Medians



- **Reduce crossing distance for pedestrians**
- **Reduces pedestrian and vehicle conflicts**
- **May require removal of on street parking**
- **High maintenance costs**
- **May limit access to driveways**

Slow Pavement Symbols



- **Can achieve speed reductions up to approximately 2 kilometre/hour**
- **High cost ~\$5,000 given benefit**
- **Decrease effectiveness over time due to driver familiarity**
- **Low wintertime visibility**

Transverse Bars



- **Low Cost**
- **May reduce speeds initially**
- **Low visibility in winter**
- **Decreased effectiveness over time, due to driver familiarity**

Speed Reader Boards



- Increase driver awareness of actual speed travelled
- Typical initial speed reductions of 5km/hour
- High cost ~\$9,000 – \$15,000
- Effectiveness decreased over time due to driver familiarity
- Maintenance costs
- Staff time to manage program

Reduced Speed Limits



- **Low Cost**
- **Increase driver awareness of actual speed travelled**
- **Effectiveness decreased over time due to driver familiarity**
- **Requires police presence to enforce which is infeasible given associated costs**

Police Enforcement



- **Very effective during enforcement periods**
- **Requires ongoing police presence which can be infeasible given associated costs**

Centre Delineators



- **Low Cost**
- **Deter drivers from crossing the centerline**
- **High maintenance costs**
- **May limit access to driveways**
- **Difficult with snow plows**

Thank you.

Report Recommendation:

THAT the Committee of the Whole consider alternative traffic calming and speed reduction measures and provide direction as to the measures considered reasonable and appropriate for implementation on lower Sunset Boulevard.

Possible package:

- **Raised crosswalk at Emerald Dive**
 - **Trial 40 kilometres per hour speed limit, with speed fine tab**
 - **Upgrade warning signs**
 - **Improve sightlines where feasible**
-then monitor**