



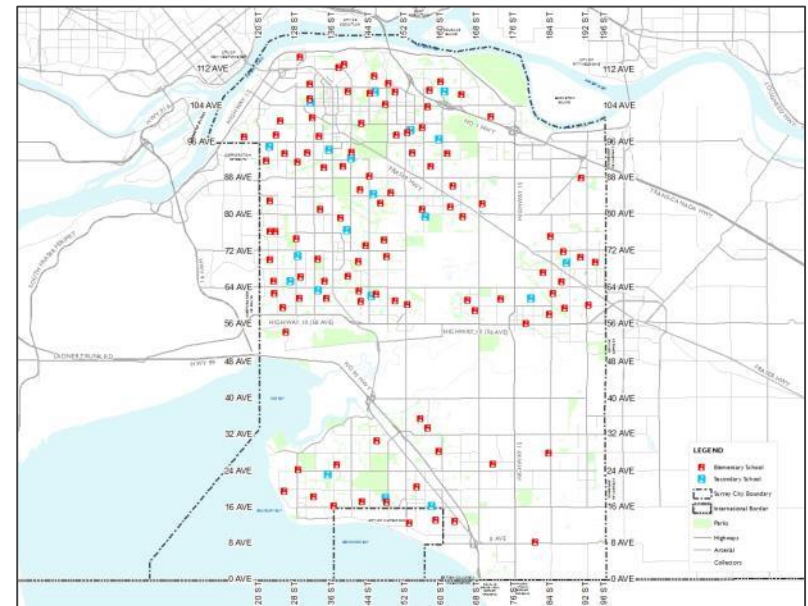
Surrey Safe and Active School Program

June 4 , 2014

Canadian Multidisciplinary
Road Safety Conference

Introduction

- Over 27% of population is under 19 years
- Largest school district in BC
- 70,000+ students
- 101 elementary schools
- 19 secondary schools
- 275 portables
- 26 private schools



School Area Safety

Prior to 2009:

- 300 complaints per year regarding safety of students
- Reactive basis
- Lack of resources and information



Typical Safety Issues

- High number of parent drivers
 - High pick-up / drop-off activity
- Lack of infrastructure
 - To accommodate vehicles
 - To encourage active travel
- Inappropriate behaviour
 - Drivers
 - Pedestrians
 - Cyclists

Typical Safety Issues



Pick-up in travel lane



Jaywalking from far side

Typical Safety Issues



Parking lot congestion

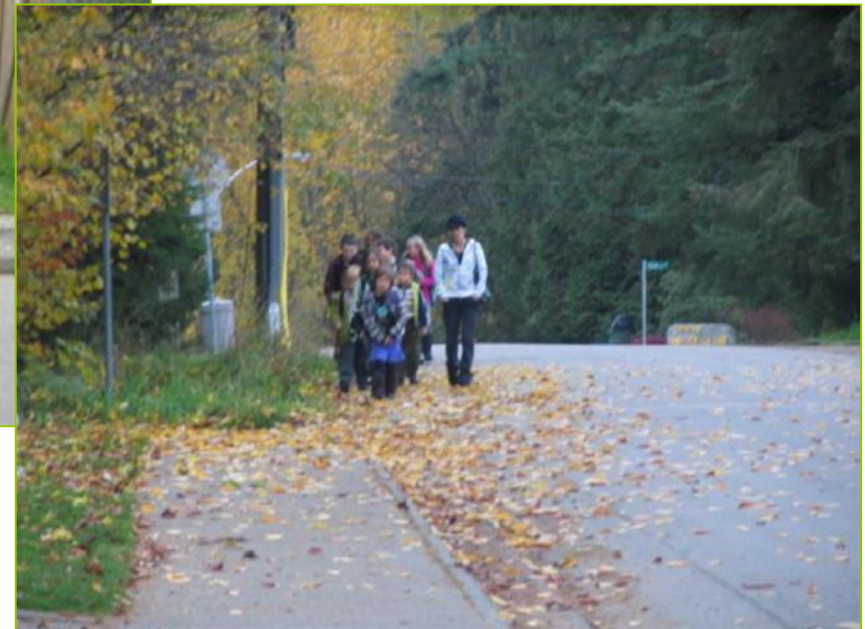
Pedestrian-vehicle mix



Typical Safety Issues



Missing sidewalks



Pedestrian facility gaps

Typical Safety Issues



Lack of pedestrian crossing facilities



Inadequate pick-up /
drop-off space

Typical Safety Issues



Pedestrian behaviour



Driver behaviour

Safe and Active Schools

Proactive approach

- Identify road safety issues
- Develop 3E mitigation measures
- Implement safety plan
- Encourage walking and cycling through student engagement



safe &
active
SCHOOLS
P R O G R A M

Safe and Active Schools

Proactive approach

- Identify road safety issues
- Develop 3E mitigation measures
- Implement safety plan
- Encourage walking and cycling through student engagement

School
Travel
Planning

safe &
active
SCHOOLS
P R O G R A M

School Travel Planning

- 17 schools have participated to date
- Additional 4 partnering in 2013/2014
- Pedestrian/cycling increasing by 5-30%
- Parents driving less often by 10-35%
- *"I talk to other parents whose kids are taking the same path to school so our kids can share the walk to school, and it encourages them to go to school in the morning."*
- *"It takes 15 minutes from home to school by foot. We can breathe fresh air and enjoy the beautiful view along the road. It's always happy things for us."*

Bike-to-School Training

- City funds bike training for all grade 4 and 5 students
- 40 minutes in-class education
- 80 minutes on-bike session



School Travel Planning



Earth Day
walk-to-
school
event with
Mayor
Watts

Safe and Active Schools

Proactive approach

- Identify road safety issues
 - Develop 3E mitigation measures
 - Implement safety plan
- Encourage walking and cycling through student engagement

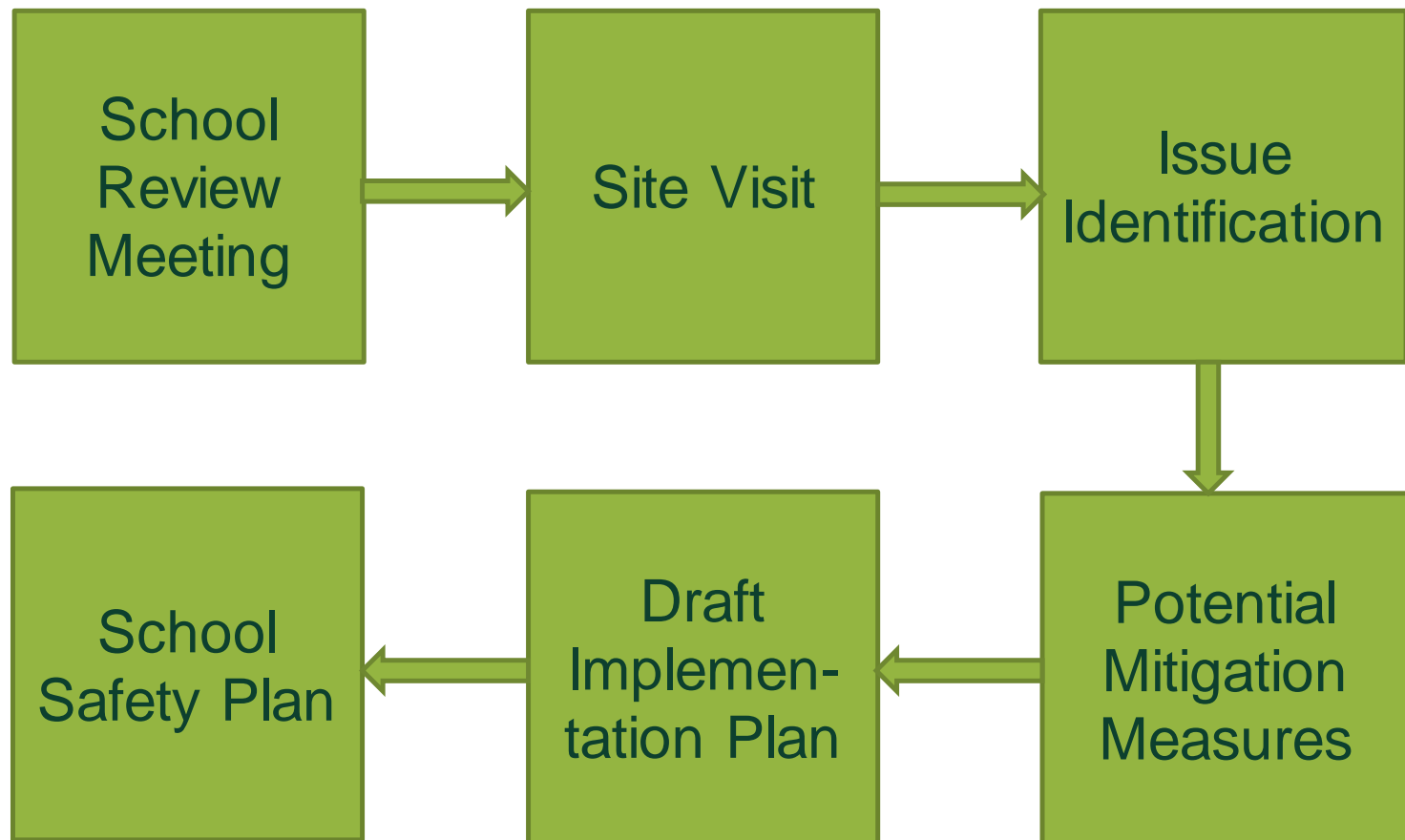
Safety and
Operational
Reviews

safe &
active
SCHOOLS
P R O G R A M

School Safety and Operational Review

- 144 schools + limited resources
- Efficient process required
 - Good use of past correspondence and reviews
 - Co-op students were available
 - Partner participation with school administration and parents

Review Process



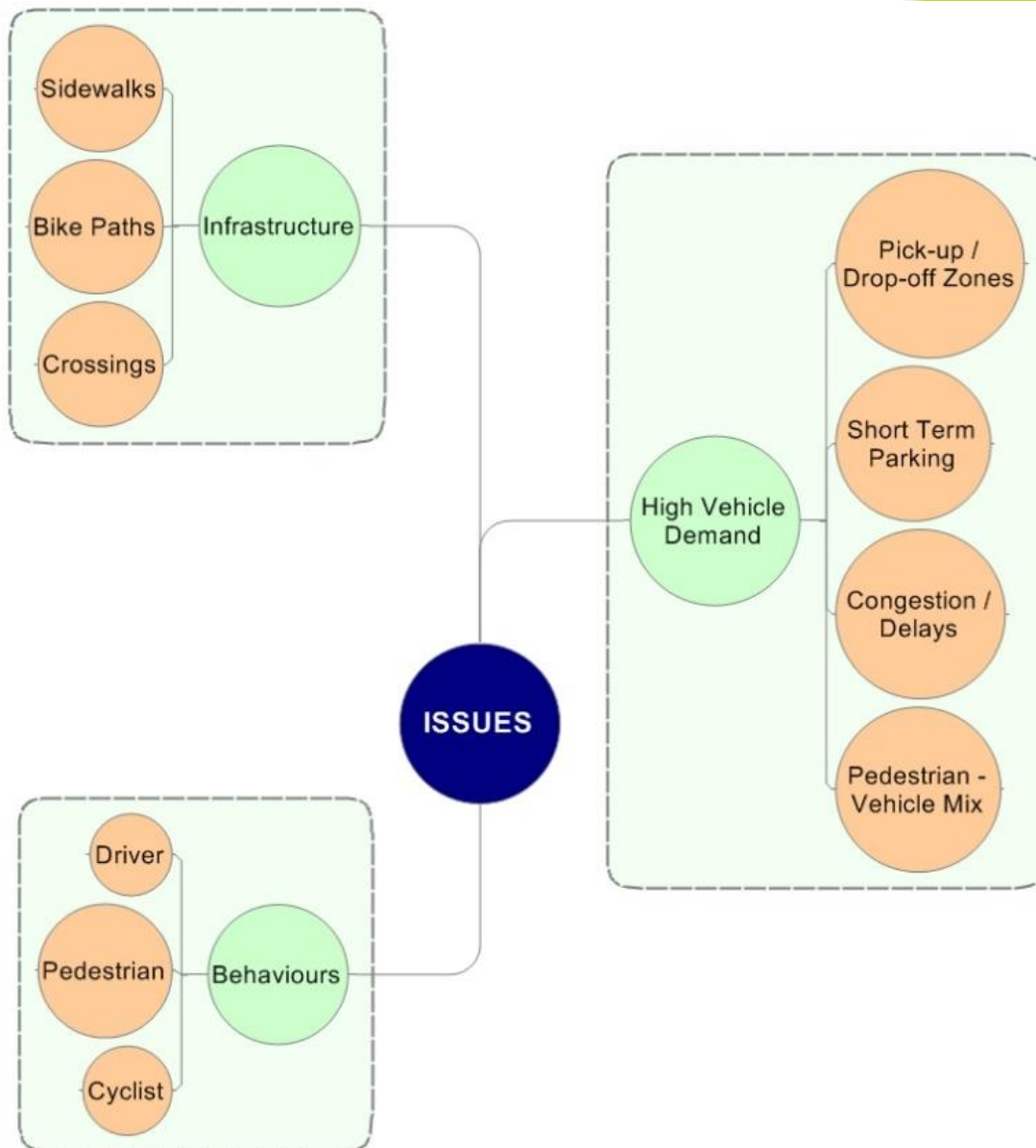
School Review Meeting

- School administration / Parents
- Listen to issues
- Hear about existing safety programs
- Ask about parent participation



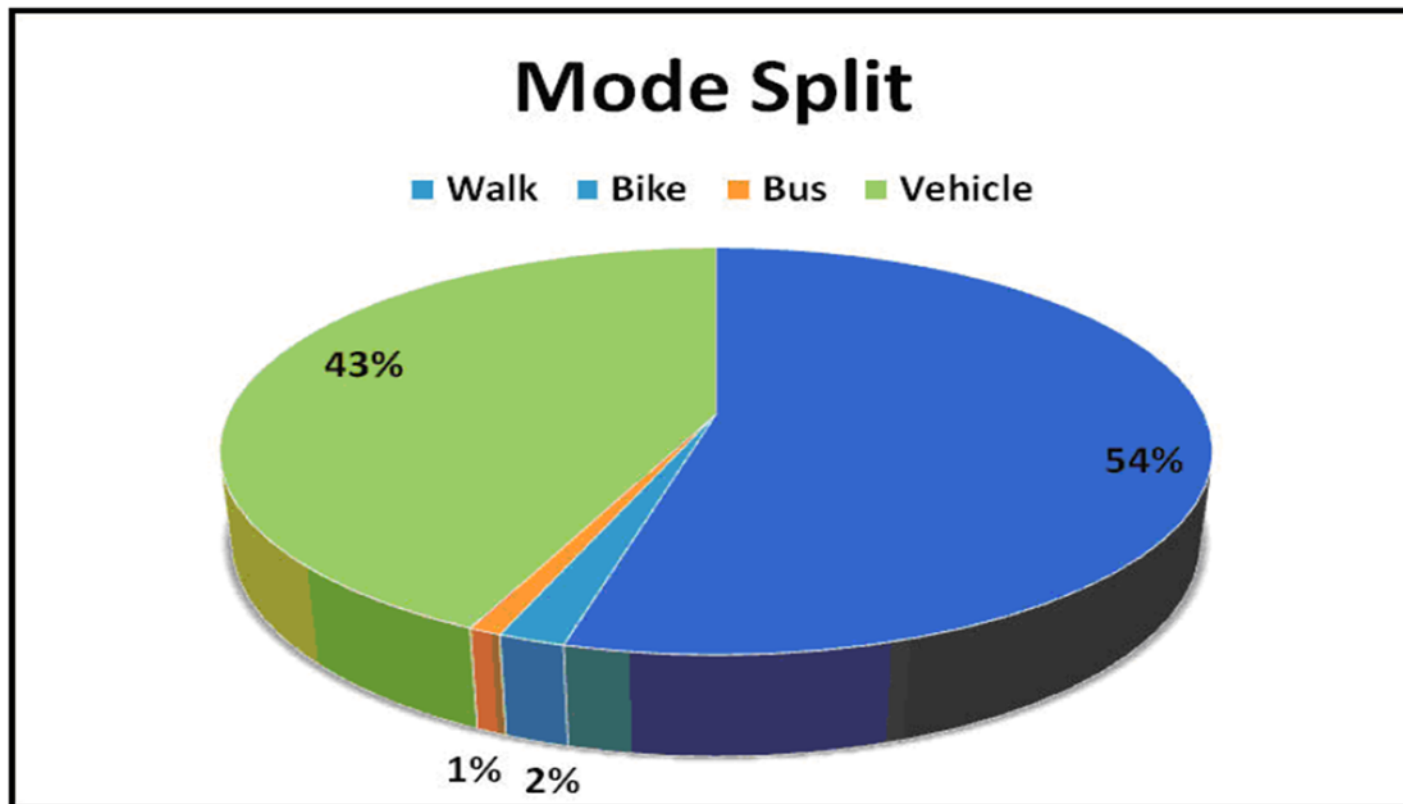
Site Visit

- ◉ Either AM or PM peak period
- ◉ Use prompt lists
- ◉ Observe
 - ◉ On-site infrastructure
 - ◉ Off-site infrastructure
 - ◉ Driver behaviour
 - ◉ Pedestrian/cyclist behaviour
- ◉ Note intersections/crossings that require counts and warrants



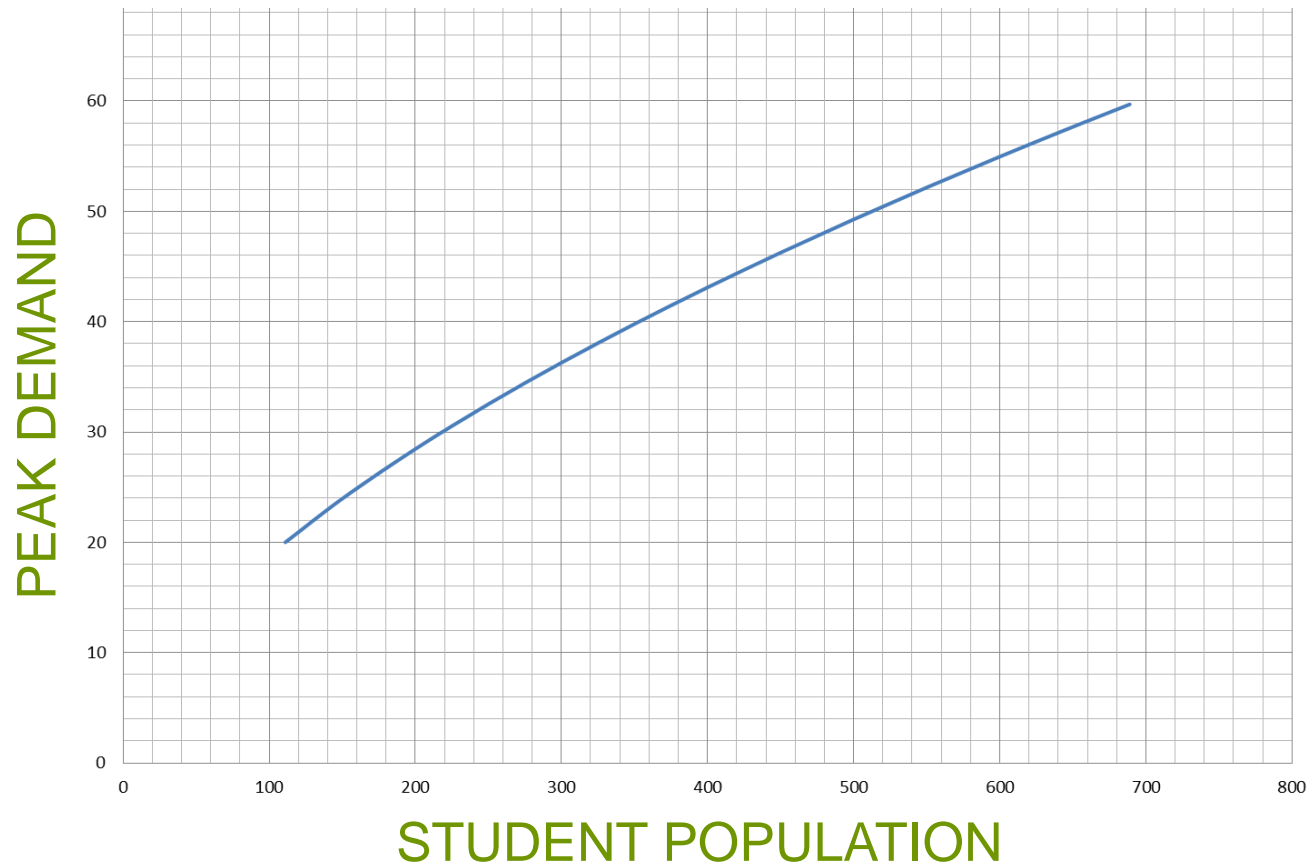
Issue Identification

School Trip Generation

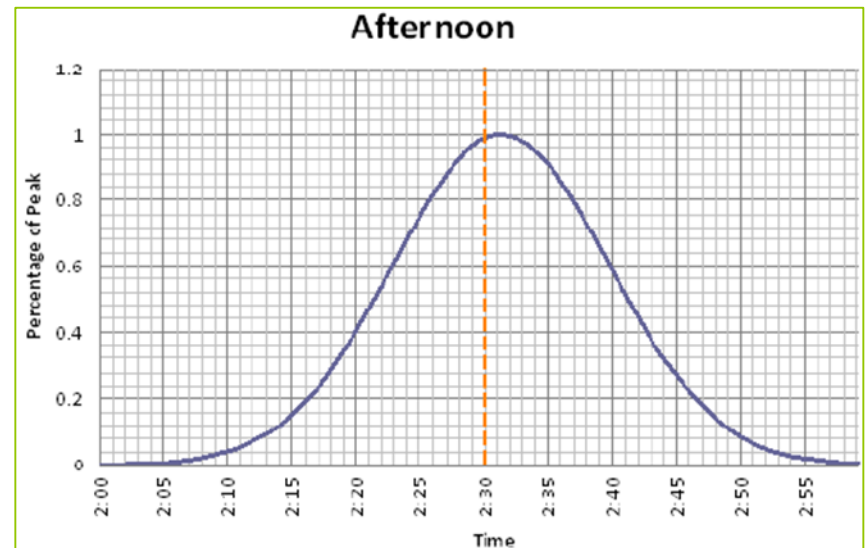
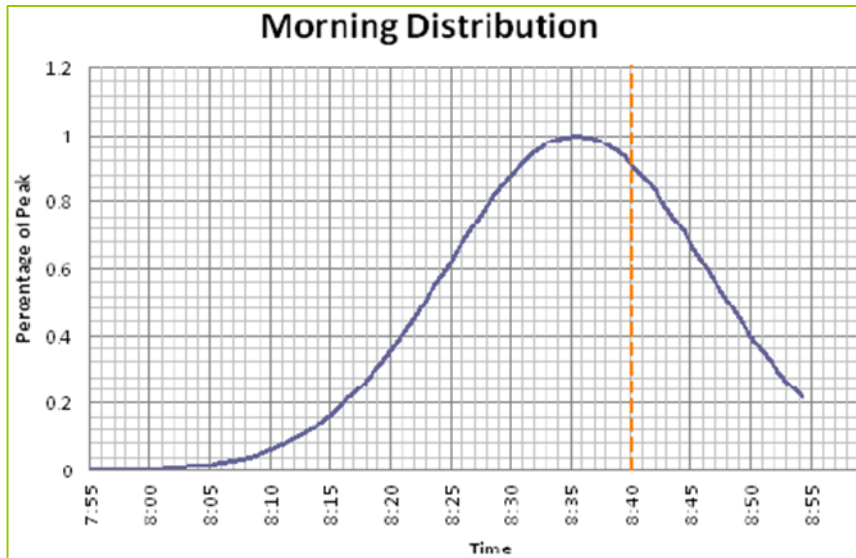


School Trip Generation

EXPECTED PEAK DEMAND



School Trip Generation



Potential Mitigation Measures

- Developed mitigation measure toolbox
- Acceptability of measure
- Funding opportunities
- Implementation timing

'3E' Measures



Engineering



Education



Enforcement

Typical Measures



Regulate curb space
Signage improvements

Typical Measures



Curb extensions



Crosswalks

Typical Measures



Traffic calming

Sidewalks

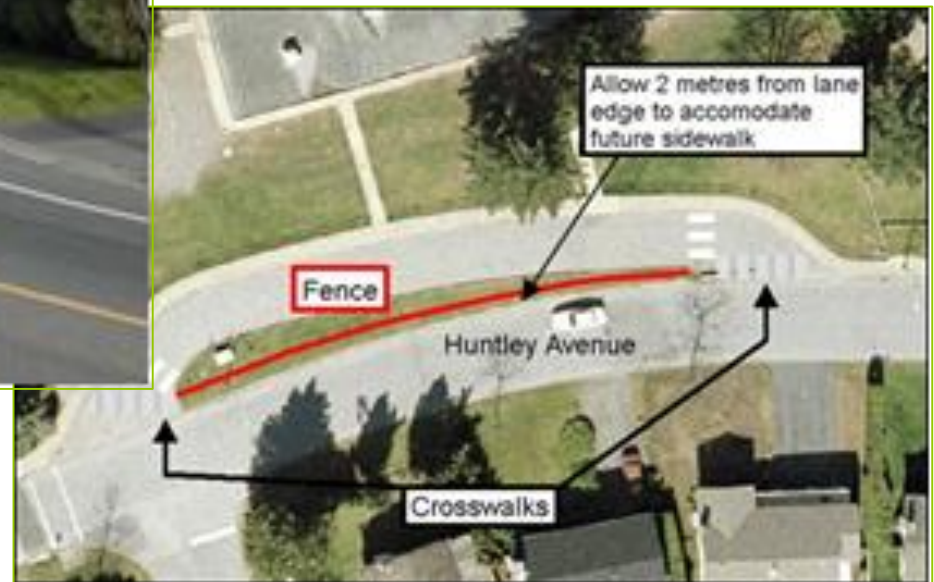


Typical Measures



School zone gateways

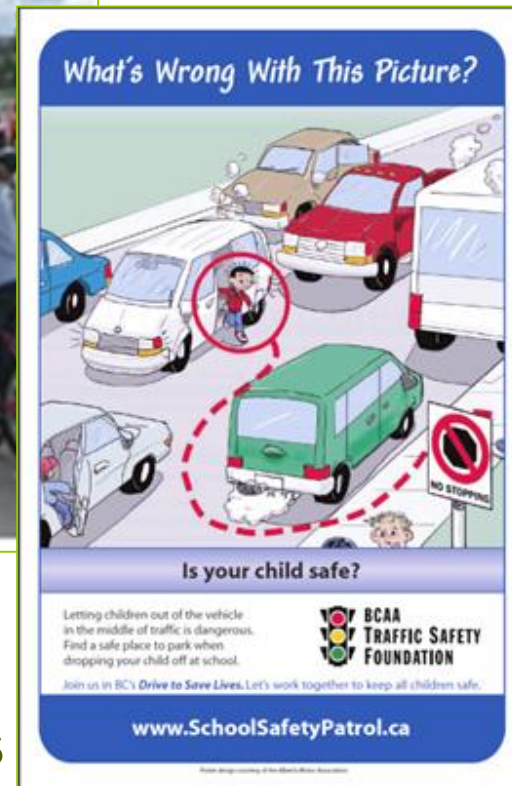
Fencing to reduce pedestrian/vehicle mix



Typical Measures



Bike Rodeos



School Safety Posters

Typical Measures

SpeedWatch



Speed & Aggressive
Driving Enforcement




Draft Implementation Plan

- City review meeting
- Confirm measure acceptability
- Confirm measure timing
 - Funding
 - Priority

School Safety Plan

- Documents issues and measures
- Identifies responsibility for measure implementation
- Identifies relative timing
- Widely distributed
 - City
 - School District
 - Individual School



North Ridge Elementary School
 School Safety and Operation Review

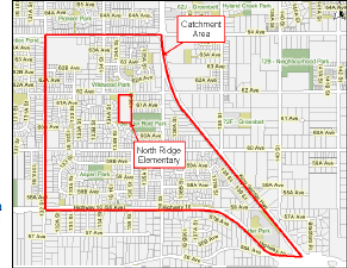
Address: 13460 – 62 Avenue	Site Visit: Tuesday May 19, 2009
Principal: Teresa Starr	Report Date: Sep 16, 2009
Phone: 604-599-3900	
Email: starr_t@sd36.bc.ca	

The following report is one in a series of reviews undertaken by D.C. Dean Associates Inc. on behalf of the City of Surrey on the schools within School District 36. The purpose of the review is to identify the road safety issues both on the school site and on the adjacent roads, identify short and long term mitigation measures for consideration, and recommend further study if deemed necessary. The report will be provided to both the City and the School District for their consideration of implementing the recommendations as funding permits. The School District is encouraged to discuss the recommendations with the City to foster a coordinated effort to improve safety around the school.

School Site

North Ridge Elementary School is a neighbourhood school offering regular programming with approximately 450 students. The school is situated at the southwest corner of 62 Avenue and 135 Street. The catchment area is bounded by 64 Avenue on the north, 132 Street on the west, Highway 10 on the south, and King George Highway on the east. Figure 1 outlines the catchment area for North Ridge Elementary School.

**Figure 1
Catchment Area**



All roads bounding the catchment area are arterial roads except Hwy 10 which is a provincial highway. Within the catchment area 60 Avenue is a major collector.

Implementation Progress

Improvements	# Completed
Crossing Improvements	160
Sidewalks	37
Traffic Calming Initiatives	68
Signal Improvements	16
Curb Space and Signage	195
Other	30
Total	506

55% of identified projects are completed

Before / After Examples



Before / After Examples



Before / After Examples



Before / After Examples



Before / After Examples



Before / After Examples



Before / After Examples



Conclusions

- ◉ Proactive
- ◉ Inclusive
- ◉ Team approach
- ◉ Equitable
- ◉ Behaviour changing
- ◉ Safer school travel