Westside Mobility Strategy Community Forum #2



October 15th, 2015 Patrick Sweeney, AICP, LEED AP CED Project Manager

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Purpose of Work Session

- 1. Project Overview
- 2. New Data: Review 2035 Travel Demand
- 3. Community Engagement Summary
- 4. Traffic Analysis: What We Learned/What We Saw
- 5. Phase 2 Approach
- 6. Next Steps



Overview: Study Area



Overview: Priority and Objectives

PRIORITY

Balance neighborhood livability and economic growth Collaborate with public and stakeholders throughout project

PHASE 1

• Assess the context and future trends for the overall westside street network

PHASE 2

- Develop Network Improvement Ideas and Concepts
- Organize Concepts into Strategies with Long and Short Term Actions
- Deliver Strategic Recommendations
 Report to City Council



Overview: Schedule



Overview: What do we mean by Mobility?

- Everything that moves along public streets in west side Vancouver
- 2. "Everything that moves" include the following:

WALKING
BIKING
AUTOMOBILES
TRANSIT
DELIVERY TRUCKS
ARTICULATED FREIGHT TRUCKS
OVER-DIMENSIONAL LOAD TRUCKS



Overview: Articulated Trucks

Class 8: Four Axle Tractor Trailer (Heavy Truck)

Class 9: Five Axle Tractor Trailer (Heavy Truck)

Class 12 Six Axle Truck – Two Trailers *(Heavy Truck)*

Class 13: Eight Axle Tractor Trailer (*Heavy Truck*) *Over-Dimension Load – Requires Permits*









Overview: Non-Articulated Trucks















Overview: Neighborhoods, Parks and Schools





Overview: Potential Redevelopment and Infill





Review of 2035 Projected Travel Demand

Future Vehicle Traffic Capacity PM Peak Projection

Land Use Assumptions

- Includes Industrial growth
- Includes Downtown and Waterfront commercial and residential

Capital Assumptions:

- I-5 Improvements (CRC)
- NW 32nd (no FVR RR bridge)
- Mill Plain Corridor



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8 stakeholder interviews
10 neighborhood meetings
2 City Council work sessions
1 Planning Commission Briefing
Farmer's Market Booth



110

Community Walk and Bide Ride October 10, 2015

Raise street tree canopy on designated freight routes	N/A	1
Adjust signal timing to better accommodate north/south traffic	N/A	1
Make all school zone flashing lights double-sided	N/A	1

Downtown

Capital	Specific Location	Count	н.
auggeston Enhance sideods and wanfinding downtown including parking wanfinding	N/A	2	
Reduce a.m. congestion on 5th from Columbia to Broadway	Columbia to Broadway	1	
Improve 6th St. as a gateway to downtown	6th St	1	
Extend two-way conversion of McLoughlin/Washington south of 15th	McLoughlin and Washington	n 1	
Upgrade signals south of Mil Plain	N/A	1	
Improve consistency of intersection cold lar stiff for the town			
System/Operations		H III	
Suggestion	Specific 0	Count	
Right-size delivery vehicles in downtown/create delivery permit system	N/A	2	
Reduce diversion of I-5 traffic through downtown	N/A	2	
Close I-5 SB ramp at Washington St. during morning rush hour	Washington/I-5	2	
Restrict times for delivery vehicles downtown	N/A	1	
Develop more consistent traffic controls throughout downtown	N/A	1	

Neighborhoods

Capital		
Suggestion	Specific Location	Count
Widen 45th St. from Washington to Main	45th, Washington to Main	2
Remove sharrows and create bike/ped bridge at Burnt Bridge Creek Park	Burnt Bridge Creek	2
Improve access and signage to Burnt Bridge Creek	Burnt Bridge Creek	2
Reduce congestion/improve visibility on 1Sth from Columbia to Main	1Sth from Columbia to Main	1
Improve sight lines at 22nd/Broadway intersection	22nd/Broadway	1
Designate 29th as a local street connection to Burnt Bridge Creek	29th/Burnt Bridge Creek	1
Improve bike/ped safety at 32nd/Lower River	S2nd/Lower River	1
Designate 33rd as a local street connection to Burnt Bridge Creek	SSrd/Burnt Bridge Creek	1
Improve sightlines at 8th/Franklin intersection	8th/Franklin	1
Install sidewalks on major streets connecting Division and Washington	Division and Washington	1
Add lighting to Burnt Bridge Creek area to improve safety	Burnt Bridge Creek	1

Establish north/south bike route on CSt	C St	1
Establish north/south bike route on F St, especially at north end	F St	1
Enhance sidewalk connectivity between Franklin and Lincoln Elementary	Franklin/Lincoln schools	1
Add sidewalks around schools in north neighborhoods	N/A	1
Implement parking management (metering and/or permitting) in Uptown	N/A	1
System/Operations		
Suggestion	Specific Location	Count
Reduce congestion and improve safety during school drop-off/pick-ups	Franklin Elementary, VSAA	1
Develop disaster response plans for Lincoln neighborhood	Lincoln Neighborhood	1

	Apecific Location	Count
	th/Main	4
Add sign_1 to S9th/Kaufmann intersection	S9th/Kaufmann	2
Improve traffic control/flow and visibility at S9th and Lincoln intersection	S9th/Lincoln	2
Add signal to 39th/Lincoln intersection	S9th/Lincoln	2
Install pedestrian crossing and/or signals at 39th/Washington	S9th/Washington	2
Allow street parking on both sides of 39th St.	N/A	2
Improve pedestrian crossings at Columbia/S9th	S9th/Columbia	1
Install school zone speed enforcement cameras at 39th/Daniels	39th/Daniels	1
Remove safety island at 39th/Daniels intersection	39th/Daniels	1
Install pedestrian signal at 39th/Daniels	39th/Daniels	1
Install signal at 39th/Fruit Valley intersection	39th/Fruit Valley	1
Improve I-5/39th interchange to allow trucks better access	39th/1-5	1
Improve 39th St/SR 500 interchange	39th/SR-500	1
Reduce congestion on S9th from I-5 to Columbia	I-5 to Columbia	1
Widen lanes to allow both vehicles and bikes on 39th from Main to Lincoln	Main to Lincoln	1
Install more crosswalks on S9th	N/A	1
Improve overall safety of 39th St.	N/A	1
Create consistent sidewalks throughout 39th St. corridor	N/A	1
System/Operations		
Suggestion	Specific Location	Count
Apply weight restriction and/or discourage/ban trucks on S9th St.	N/A	8
Change classification of S9th St.	N/A	1

 Which routes are preferred by which modes? Freight mobility/neighborhood livability issues Freight: Mill Plain #1, Fourth Plain #2, 78th #3, 39th #4 Motor vehicle traffic volume the highest on Fourth Plain and 78th Bikes: east/west on Mill Plain, north/south on Columbia, Main and Kauffman/Lincoln Pedestrians – any street, but pedestrian activity concentrated on Main Street, School routes, Downtown, Waterfront 	Where does freight go? When and why?	 Between industrial areas and I-5, through neighborhoods, primarily on Mill Plain and Fourth Plain peaking around 7 am and 3 pm
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What We Learned – Areas of Conflict

Locations	Conflicts
Major corridors near I-5	Interchange areas have higher collision rates due to congestion on I-5
Mill Plain couplet	High number of collisions
Fourth Plain around Main Street	High vehicle collision rate
Kauffman around Mill Plain and Fourth Plain	Conflicts between north-south bike traffic and east west freight traffic
33 rd just east of Main Street	Multi-modal conflicts
8th Street just east of Esther Short Park	Multi-modal safety conflicts, namely pedestrian crossings
Intersections at Mill Plain, Fourth Plain, and 39 th with or without crosswalks, traffic signals, and bike facilities	Multi-modal safety conflicts, namely pedestrian crossings

How much cut-through traffic is occurring from I-5 through the westside? When and Why?	Main Street and other N/S streets are common diversion routes during a.m. peak and midday congestion
What is the most frequent traffic complaint?	Speeding
What are some of the likely causes?	Conflicts between modes and speeds
Where are the most collisions occurring?	 Concentration along Main Street, Fourth Plain, Downtown Between Main Street and I-5 at Mill Plain, Fourth Plain, and 39th

Collision Rates, Vancouver Arterials vs. Comparable Averages



Majority of bike/pedestrian collisions resulted in an injury

- In vehicle-only collisions, majority produced no injuries
- Compared to motor vehicle collisions, injury severity and chance for fatality for bicyclists and pedestrians is higher



Economic Development and More People

- Projected increase in number of housing units and jobs in the study area by 2035 (compared to 2010 numbers)
- Potential for over 5,500 additional housing units
- Up to 15,000 jobs additional jobs

Industrial areas have room for growth

• Port of Vancouver and other industrial areas have approx. 1,100 gross acres (600-800 net developable acres) available for growth

There is enough capacity in east/west corridors to accommodate projected 2035 travel demands



What We Learned: Summary

- Overall, the street grid and short blocks create very walkable and bike friendly neighborhoods
- Congestion on I-5 adds stress to street network and neighborhoods
- Growth is occurring in neighborhoods and industrial areas
- East/West freight mobility is necessary
- Pedestrian and bicycle travel choices are increasing
- Safety for people who walk, bike, or drive is a big issue



What We Saw: Main









What We Saw: 39th Street







Tradeoffs?



What We Saw: Columbia Street



At the end of Phase 1...The Big Questions

- 1. Are we managing the network to optimize vehicle mobility?
- 2. Are we balancing the needs of vehicles with the needs of people who walk and people who bike?
- 3. If freight had designated and reliable routes, could we minimize conflicts between freight mobility and neighborhood livability and downtown vitality?



Phase 2: Defining the Problem

In some areas:

• The current network places a high priority on vehicle traffic flow to accommodate industrial area freight needs, commuters, and I-5 corridor congestion.

In other areas:

• The current network places a high priority on pedestrian and bike connectivity, residential neighborhood livability and accessibility, and downtown vitality.

A lack of consistent, focused priorities in neighborhoods and along east/west corridors results in unsafe modal conflicts.



Phase 2 Direction: Network Balance

Modal balance is needed – mobility needs to be more consistent through the street network

A balanced network for all users would include:

- 1) Improved transportation safety
- 2) Improved connectivity for people who walk/people who bike
- 3) Improved E/W reliability for freight
- 4) Maintain land use vitality manage all modes consistently to sustain long-term value and multi-modal accessibility



Phase 2 Approach

Ensure comprehensive, coordinated, and balanced approach to address needs of all users

- Develop and evaluate alternative mobility scenarios
- Determine the best alternative to improve the needs for all users
- Develop strategy for capital improvements
 - Analogy: Major remodel for historic house Comprehensive design first, then select windows, doors, siding, etc...



Concept #1 *Optimize Mill Plain, Manage Main Street*





Concept #2 *Mill Plain and* 78th Freight Routes





Concept #3 Address I-5





Concept #4 *The Kitchen Sink*





Evaluate Alternative Mobility Scenarios

Which alternative balances the needs of all users?

Community values guide the evaluation of alternatives

- 1. Improved transportation **safety** for all network users
- 2. Improved **connectivity** for people who walk/people who bike
- 3. Improved E/W **reliability** for freight
- 4. Maintain land use **vitality** throughout west side neighborhoods

Strategically integrate capital improvements with preferred strategy



Evaluate Alternative Mobility Scenarios



Questions?



Next Steps

- Model and Evaluate Alternative Mobility Scenarios
- Develop Capital Improvement Strategy
- Planning Commission Briefing: October 27
- City Council Work Session: December 14
- Community Forum #3: December 2015



Conclusion

Thank You

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Project Website

www.cityofvancouver.us/wms

