

Washington State Transportation Commission Lakewood, Washington November 19, 2014

Enhanced Safety
Point Defiance
Rail Bypass



- Point Defiance Rail Bypass -

Presentation has three parts:

- What has been constructed or approved for construction
- Additional safety improvements identified by Sound Transit's preliminary hazards analysis report
- Lakewood's list of additional safety improvements



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WHAT HAS BEEN CONSTRUCTED OR APPROVED FOR CONSTRUCTION

Description:	Miles	Length in Feet	Cost/Linear Foot or Cost/Unit	Line Totals
Security fencing from Lakewood Station to Bridgeport Way.	.51	2,718	\$30/linear ft	\$81,530
Positive Train Control (PTC); required by the Rail Safety Improvement Act of 2008 and currently under construction in Lakewood by Sound Transit using ARRA funding.	6.00	31,708	\$130,000/mile	\$780,000
New wayside horn/quiet system installed at Steilacoom Boulevard SW using ARRA funding.	N/A	N/A	N/A	\$400,000
New wayside horn/quiet system installed at 100 th Street SW using ARRA funding.	N/A	N/A	N/A	\$400,000
New wayside horn/quiet system installed at 108 th Street SW using ARRA funding.	N/A	N/A	N/A	\$400,000
New wayside horn/quiet system installed at Bridgeport Way using ARRA funding.	N/A	N/A	N/A	\$400,000
New wayside horn system/quiet system at North Thorne Lane SW and Union Avenue SW.	N/A	N/A	N/A	\$400,000
New wayside horn system/quiet system at Berkeley Street SW and Union Avenue SW	N/A	N/A	N/A	\$400,000
Total				\$3,261,540

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ADDITIONAL SAFETY IMPROVEMENTS IDENTIFIED BY SOUND TRANSIT'S PRELIMINARY HAZARD ANALYSIS REPORT

Clover Creek Drive SW

- No designated pedestrian path
 - Lacks pedestrian channelization
 - Lacks tactile warning strips
 - Lacks pedestrian warning signs



North Thorne Lane SW

- Foliage is blocking SE bound traffic's line of sight down the track towards the southwest
- Foliage or other objects block most sight distances shown in design documents
- No stop line on northeast side of the crossing
- Vehicles required by law to stop at crossings can potentially pose a hazard on the northeast side of the crossing

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Additional Safety Improvements Identified by Sound Transit's Preliminary Hazard Analysis Report

North Thorne Lane SW

- Vehicles traveling NW on Thorne Lane & turning onto Union Avenue have a high probability of backing up unto railroad tracks – requires a new signal at the Union/Thorne Lane intersection
- Camp Murray Gate relocation from Berkeley Street to North Thorne Lane can potentially increase queues on North Thorne Lane interchanges
- Lacks pedestrian channelization
- Lacks pedestrian gates

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Additional Safety Improvements Identified by Sound Transit's Preliminary Hazard Analysis Report

Berkeley Street SW

- Foliage is blocking the southeast bound traffic's line of sight down the track towards the southwest
- Vehicles required by law to stop at crossings can potentially pose a hazard on the northeast side of the crossing
- Vehicles traveling NW on Berkeley Street & turning onto Militia Drive have a high probability of backing up into the tracks
- Lacks pedestrian channelization
- Lacks pedestrian gate on the southeast side of crossing
- Controllers not in synch with new ramp meters
- No stop line on the northeast corner of crossing

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CITY'S LIST OF ADDITIONAL SAFETY IMPROVEMENTS

DESCRIPTION:	MILES	LENGTH IN FEET	COST/LINEAR FOOT OR COST/UNIT	LINE TOTALS
Install 8 foot tall sound barrier from Lakewood Station to Bridgeport Way (one side)	0.52	2,718	\$264	\$717,552.00
- Clearing & grubbing			8% of total	\$57,404.16
- Landscaping			10% of total	\$71,755.20
- Easements			\$112.80/LF	<u>\$306,590.40</u>
Subtotal				
Install 8 foot sound barrier from Bridgeport Way to Gravelly Lake Drive SW (one side)	1.28	6,755	\$264	\$1,783,320.00
- Clearing & grubbing			8% of total	\$142,665.60
- Landscaping			10% of total	\$178,332.00
- Easements			\$112.80/LF	<u>\$761,964.00</u>
Subtotal				
Install trespass detection system along the railroad ROW between Gravelly Lake Drive SW and North Thorne Lane SW	1.04	5,477	2 units at \$29,000 each	\$58,000
Install security fencing from Spruce Street SW to Berkeley Avenue SW. (This proposal does not include the installation of a sound barrier.)	0.81	4,270	\$30/linear ft	\$128,100
Rail Safety Plan for the Lakewood's isolated neighborhoods.	N/A	N/A	N/A	\$50,000
Tillicum Renewal Plan.	N/A	N/A	N/A	\$300,000
Lakewood Station District Sub-Area Plan.	N/A	N/A	N/A	\$85,000
Total				\$4,640,683.36

Endnotes: With new road and pedestrian/bike path between N Thorne Lane & Gravelly Lake drive, add \$27 million. With new city park on Sound Transit property, add \$3 million.