

Level 2 Alternatives Screening Analysis Technical Memorandum

**Washington State Department of Transportation
SR 302/Elgin Clifton Road to SR 16
Corridor Study**

March 2009



**626 Columbia Street NW
Suite 201A
Olympia, WA 98501-9000
(360) 570-4400**

Table of Contents

Acknowledgements		iv
Acronyms and Abbreviations		v
1.0 Background		1
2.0 Purpose and Need Statement		2
2.1 Purposes of the Action		2
2.2 Need for the Action		2
3.0 Level 2 Screening Analysis Process		4
4.0 Background Data Collection		4
5.0 Level 1 Screening Analysis Alternative Evaluation		6
6.0 Alternatives		7
6.1 Alternative 3: Power Line – Existing SR 302 Alignment/Power Line Right-of-way/New Bridge/to Interchange at Burnham Drive		8
6.2 Alternative 4: North Bridge – Existing SR 302 Alignment/New Alignment/ New Bridge/New Alignment along 144th Street to New Interchange at SR 16		10
6.3 Alternative 6: Pine Diagonal – Existing SR 302 Alignment/New Alignment/ Pine Road/Improved SR 302 Spur to Modified SR 302 Spur/SR 16 Interchange		11
6.4 Alternative 7: Pine and 118th Avenue – Existing SR 302/118th Avenue/Pine Road/Improved SR 302 Spur to Modified SR 302 Spur/SR 16 Interchange		12
6.5 Alternative 10: 154th Avenue – Existing SR 302/154th Avenue/New Alignment/ 154 th Avenue to new SR 16 Interchange		13
6.6 Alternative 11: Improvements Vicinity Wauna – Existing SR 302/New Alignment through Wauna Curves/New Bridge to Existing SR 302/SR 302 Spur Intersection		14
7.0 Level 2 Screening Analysis Evaluation		15
8.0 Public Involvement		17
9.0 Environmental Impacts		17

10.0 Conceptual Cost Estimate 17

11.0 Traffic Analysis 18

12.0 Summary and Recommendations 20

List of Appendices

- Appendix A – Level 1 Screening Alternatives
- Appendix B – Advisory Committee Meeting Attendees, October 20, 2008
- Appendix C – Level 2 Screening Alternatives
- Appendix D – Performance Evaluation Process
- Appendix E – Summary of Public Comments, October 27 and October 29, 2008
- Appendix F – Level II Screening Impacts Technical Memorandum
- Appendix G – Corridor Traffic Analysis

Acknowledgements

This Technical Memorandum was prepared for the Washington State Department of Transportation (WSDOT) based on input from and evaluation by the following agencies and companies:

Level 2 Screening Meeting Attending Agencies

Washington State Department of Transportation

Advisory Committee

HDR Engineering, Inc.

Acronyms and Abbreviations

FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
GIS	geographic information system
HAC	high accident corridor
HAL	high accident location
HDR	HDR Engineering, Inc.
LOS	Level of Service
NEPA	National Environmental Policy Act
NHS	National Highway System
PSRC	Puget Sound Regional Council
SEPA	State Environmental Policy Act
SR	State Route
TPL	Tacoma Power Line
WSDOT	Washington State Department of Transportation