

APPENDIX A – DISTRIBUTION LIST

Federally Elected

Federal Courthouse, Ron Wyden, U.S. Senator, DC
Secretary of Housing and Urban Development, OK
U.S. House of Representatives, Jamie Herrera Beutler, The Honorable, DC
U.S. House, Dave Reichert, Representative, WA
U.S. House, Jaime Herrera Beutler, Representative, WA
U.S. House, Rick Larsen, Representative, WA
U.S. Senate, Jeff Merkley, Senator, OR
U.S. Senate, Maria Cantwell, Senator, DC
U.S. Senate, Maria Cantwell, Senator, DC
U.S. Senate, Patty Murray, Senator, DC
U.S. Senator Patty Murray, Mindi Linquist, Southwest Washington Director, WA

Federal Agencies

Acquisition Technology & Logistics, Peter Potochne, Acting Director, DC
Bureau of Land Management-OR State Office, John Styduhar, OR
Dept. of Commerce, Director, Ecology & Conservation, NOAA, DC
Dept. of Transportation - Office of Pipeline Safety, Harold Winnie, MO
Energy Facility Site Evaluation Council, Jim Luce, Chair, WA
Fed. Aviation Administration, Matthew McMillen, Office of Environment and Energy, DC
Fed. Communications Commission, Aliza Katz, NEPA contact, DC
Fed. Highway Administration, Gerald Solomon, Director, DC
Fed. Maritime Commission, Karen Gregory, Asst. Secretary, DC
Federal Energy Regulatory Commission, Medha Kochhar, Project Manager, MD
Federal Trade Commission, Asst. General Counsel, DC
General Services Administration, Environmental Program Manager, DC
HUD - Housing and Urban Dev, CA
Minerals Management Service, James Bennett, Chief, Environmental Assessment Branch, VA
National Marine Fisheries Service, Ben Meyer, OR
National Marine Fisheries Service, Dr. Tom Sibley, Branch Chief-Northwest Region, WA
National Marine Fisheries Service, Matt Longenbaugh, Branch Chief-Central Puget Sound, WA
National Marine Fisheries Service, Scott Anderson, WA
National Marine Fisheries Service, Tom Hausmann, WA
National Marine Fisheries Service-Habitat Conserv Div, Michael Crouse, Asst. Regional Admin., OR
National Marine Fisheries Service-NW Region, Robert D. Lohn, Regional Administrator, WA

National Marine Fisheries Service-Office of Habitat Protection-SSMC 3, Marine Resource Habitat Specialist, MD
National Marine Fisheries Service-Oregon State Habitat Branch, Michael Tehan, Director, OR
National Marine Fisheries Service-Protected Resources Division, Donna Darm, Assist. Regional Admin, WA
National Park Service, Lewis and Clark National Historic Trail, NE
National Park Service-Pacific West Region, Susan Rosebrough, WA
National Science Foundation, Charisse Carney-Nunes, VA
Nuclear Reg. Commission, Osiris Siurano, Intergovernment Programs, DC
Office of Environment/Health, Department of State, DC
Office of Federal Activities - EPA, Ariel Rios, Acting Director, DC
Office of Pipeline Safety, Karen Butler, MO
Office of the Deputy Under Secretary of Defense, Robert Uhrich, Installations and Environment, DC
Office of the Judge Advocate General, U.S.Coast Guard Headquarters, DC
Office of the Under Secretary of Defense, IRM, DC
Securities & Exchange Commission, David LaRoche, Special Counsel, DC
Small Business Administration, Gary Fox, Asst. General Counsel, DC
U.S. Army Corps of Engineers, Office of the Chief of Army Engineers, DC
U.S. Army Corps of Engineers, Dominic Yballe, CENWP-OD-G, OR
U.S. Army Corps of Engineers, Jim Goudzwaard, Portland District, OR
U.S. Army Corps of Engineers, Judy Linton, Portland District, OR
U.S. Army Corps of Engineers, Olivia Romano, Project Manager, WA
U.S. Army Corps of Engineers, Richard Chong, OR
U.S. Army Corps of Engineers-Portland District, Marci Johnson, Planning and Outreach Specialist, OR
U.S. Army Corps of Engineers-Seattle Dist., Peter Olmstead, SW WA Field Office, WA
U.S. Bureau of Indian Affairs, Northwest Regional Office, OR
U.S. Coast Guard Sector Portland, Russell Berg, OR
U.S. Coast Guard, WA
U.S. Coast Guard, Daniel LeBlanc, OR
U.S. Coast Guard, Jack Hug, Chief, Environmental Law Branch, CA
U.S. Coast Guard, Pacific Region, Dave Sox, Sr. Environmental Protection Specialist, CA
U.S. Coast Guard, Patrick Gerrity, Commander, Sector Portland, OR

Federal Agencies (cont'd)

U.S. Coast Guard-Office of Operating & Environmental Standards, Capt. Mike Blair, (CG-3PSO), DC

U.S. Dept. of Agriculture, Natural Resources Conservation Service, WA

U.S. Dept. of Agriculture, Office of Finance & Management, DC

U.S. Dept. of Agriculture, Linda Goodman, Forest Service - Pacific NW Region, Regional Forester, OR

U.S. Dept. of Commerce, NOAA, Director of Ecology & Conservation, DC

U.S. Dept. of Commerce, Office of the Secretary, Senior Policy Advisor, DC

U.S. Dept. of Energy, Office of Intergov Affairs--DOE, DC

U.S. Dept. of Homeland Security, David Reese, Environmental Protection Specialist, DC

U.S. Dept. of Homeland Security-U.S. Coast Guard, Chief, Port Security Branch, DC

U.S. Dept. of Housing & Urban Development, Office of Environment and Energy, Director, DC

U.S. Dept. of Labor, Mike O'Malley, Employment & Training, DC

U.S. Dept. of State, Office of Environment/Health, DC

U.S. Dept. of the Air Force, Environment & Safety, DC

U.S. Dept. of the Interior MIB 2340, Dir. Ofc. of Environmental Policy & Compliance, DC

U.S. Dept. of the Interior, Chip Jenkins, Deputy Regional Director, Pacific West Region, WA

U.S. Dept. of the Interior, Donald Sutherland, Bureau of Indian Affairs, NEPA Coordinator, DC

U.S. Dept. of the Interior, Elaine Brong, Bureau of Land Management, Oregon State Office, State Director, OR

U.S. Dept. of Transportation - Marine Safety Office, Daniel Pippenger, Commander, OR

U.S. Dept. of Transportation, Director - Environment and Policy, DC

U.S. Dept. of Transportation, Environmental Policies, DC

U.S. Dept. of Transportation, Pipeline & Hazardous Materials Safety Administration, DC

U.S. Dept. of Transportation, Pipeline & HazMat Safety Admin, DC

U.S. Dept. of Transportation, Office of Pipeline Safety, Administrator, Research & Special Programs, DC

U.S. Dept. of Transportation, Chris Hoidal, Western Office OPS/RSPA, Director, CO

U.S. Dept. of Transportation, Ellen Crum, Air Traffic Control Specialist, DC

U.S. Dept. of Transportation, Kenneth Lee, Director of Engineering and Research Division Office of Pipeline Safety, DC

U.S. Dept. of Transportation, Thomas Finch, CATS Manager, Western Region, PHMSA, CO

U.S. Dept. of Transportaton - Office of Pipeline Safety, Research and Research Programs Admin., GA

U.S. Environmental Protection Agency, Anthony Barber, Oregon Operations Office, Director, OR

U.S. Environmental Protection Agency, Christine Reichgott, Manager, NEPA Review, WA

U.S. Environmental Protection Agency, Teresa Kubo, OR

U.S. Environmental Protection Agency, Yvonne Vallette, Oregon Operations Office, Aquatic Ecologist, OR

U.S. Fish and Wildlife Service, Doug Young, Energy Program Coordinator, OR

U.S. Fish and Wildlife Service, Greg Smith, Oregon Fish & Wildlife Office, OR

U.S. Fish and Wildlife Service, Karen Myers, Biologist, WA

U.S. Fish and Wildlife Service, Kemper McMaster, Oregon Fish & Wildlife Office, State Supervisor, OR

U.S. Fish and Wildlife Service, Lisa Wood, WA

U.S. Fish and Wildlife Service, Martha Jensen, Branch Manager-Division of Consultation and Technical Assistance, WA

U.S. Fish and Wildlife Service, Rebecca Toland, Oregon Fish & Wildlife Office, OR

U.S. Forest Service, Ecosystem Mgmt. Coordination, DC

U.S. National Parks, Columbia Cascades Land Resources Program, WA

USDA Natural Resource Conservation Service, OR

USDA Forest Service, Jim Sauser, OR

State Representatives – Oregon

District 8 - OR, Paul Holvey, State Representative, OR

OR Governor, John Kitzhaber, OR

OR House of Representatives (Clatsop and Columbia Counties), Bradley Witt, OR

OR House of Representatives, Arnie Roblan, Co-Speaker of the House, OR

OR House of Representatives, Betty Komp, Representative, OR

OR House of Representatives, Bruce Hanna, Co-Speaker of the House, OR

OR House of Representatives, Deborah Boone, Representative, OR

OR House of Representatives, Kim Thatcher, Representative, OR

OR House of Representatives, Vic Gilliam, Representative, OR

OR State Senate, Betsy Johnson, Senator, OR

OR State Senate, Bruce Starr, Senator, OR

OR State Senate, Larry George, Senator, OR

OR State Senate, Lee Beyer, Senator, OR

OR State Senate, Peter Courtney, Senator, OR

State Representatives – Washington

State of Washington Senate (Wahkiakum Cty), Brian Hatfield, The Honorable, WA

State Representative - District 49, Nancy DeLeo, WA

WA House of Representatives, Brian Blake, State Representative, WA

WA House of Representatives, Dean Takko, State Representative, WA

WA House of Representatives, Jim Moeller, Representative, WA

State Representatives – Washington (cont'd)

Washington State Legislature, Andy Hill, Senator, WA
Washington State Legislature, Ann Rivers, Representative, WA
Washington State Legislature, Barbara Bailey, Representative, WA
Washington State Legislature, Bruce Dammeier, Representative, WA
Washington State Legislature, Cathy Dahlquist, Representative, WA
Washington State Legislature, Charles Ross, Representative, WA
Washington State Legislature, Christopher Hurst, Representative, WA
Washington State Legislature, Curtis King, Senator, WA
Washington State Legislature, Dan Kristiansen, Representative, WA
Washington State Legislature, Derek Stanford, Representative, WA
Washington State Legislature, Don Benton, Senator, WA
Washington State Legislature, Doug Ericksen, Senator, WA
Washington State Legislature, Ed Orcutt, Representative, WA
Washington State Legislature, Graham Hunt, Representative, WA
Washington State Legislature, Hans Dunshee, Representative, WA
Washington State Legislature, Hans Zeiger, Representative, WA
Washington State Legislature, J.T. Wilcox, Representative, WA
Washington State Legislature, Jason Overstreet, Representative, WA
Washington State Legislature, Jay Rodne, Representative, WA
Washington State Legislature, Joe Fain, Senator, WA
Washington State Legislature, Judy Clibborn, Representative, WA
Washington State Legislature, Kirk Pearson, Representative, WA
Washington State Legislature, Larry Springer, Representative, WA
Washington State Legislature, Luis Moscoso, Representative, WA
Washington State Legislature, Mark Hargrove, Representative, WA
Washington State Legislature, Mark Harmsworth, Representative, WA
Washington State Legislature, Maureen Walsh, Representative, WA
Washington State Legislature, Mike Hewitt, Senator, WA
Washington State Legislature, Norm Johnson, Representative, WA
Washington State Legislature, Norma Smith, Representative, WA
Washington State Legislature, Pam Roach, Senator, WA

Washington State Legislature, Pat Sullivan, Representative, WA
Washington State Legislature, Paul Harris, Representative, WA
Washington State Legislature, Randi Becker, Senator, WA
Washington State Legislature, Richard DeBolt, Representative, WA
Washington State Legislature, Rodne Jay, Representative, WA
Washington State Legislature, Roger Goodman, Representative, WA
Washington State Legislature, Rosemary McAuliffe, Senator, WA
Washington State Legislature, Steve Conway, Senator, WA
Washington State Legislature, Steve Hobbs, Senator, WA
Washington State Legislature, Steve Kirby, Representative, WA
Washington State Legislature, Steve Litzow, Senator, WA
Washington State Legislature, Steve O'Ban, Senator, WA
Washington State Legislature, Tami Green, Representative, WA
Washington State Legislature, Tana Senn, Representative, WA
Washington State Legislature, Terry Nealey, Representative, WA
Washington State Legislature, Vincent Buys, Representative, WA

State Government Agencies – Oregon

Columbia SWCD, OR
Governor's Office, Margi Hoggmann, Energy Policy Advisor, OR
Legislative Commission on Indian Services, Jeana Harrington, Commission Assistant, OR
Legislative Commission on Indian Services, Karen Quigley, Executive Director, OR
Northwest Clean Air Agency, Erica Shuler, WA
ODFW North Coast Watershed District, Chris Knutsen, District Fish Biologist, OR
Office of the State Fire Marshall, Stacy Warner, OR
OR Building Codes Agency, Dana Roberts, OR
OR Dept. of Agriculture, Bob Meinke, OR
OR Dept. of Agriculture, Deb Cannon, Food Division, OR
OR Dept. of Agriculture, Debbie Gorham, Administrator, OR
OR Dept. of Agriculture, Jim Johnson, Land Use & Water Planning Coord., OR
OR Dept. of Aviation, Jeff Caines, Aviation Planner, OR
OR Dept. of Energy, Adam Bless, OR
OR Dept. of Energy, Deanna Henry, Emergency Preparedness Manager, OR
OR Dept. of Energy, Diana Enright, Assistant Director Renewable Energy Public Information, OR
OR Dept. of Energy, Ken Niles, Nuclear Safety & Energy Siting, OR
OR Dept. of Energy, Michael Grainey, Director, OR

State Government Agencies – Oregon (cont'd)

OR Dept. of Energy, Tom Stoops, Siting Manager, OR
OR Dept. of Environmental Quality, Warrenton NWR Office,
OR
OR Dept. of Environmental Quality, Christine Svetkovich, OR
OR Dept. of Environmental Quality, Jennifer Purcell, DEQ
NW Region, OR
OR Dept. of Environmental Quality, L. Alexandra Cyril, 401
Water Quality Certification Specialist, OR
OR Dept. of Environmental Quality, Neil Mullane, OR
OR Dept. of Environmental Quality, NWR Storm Water,
Dennis Jurries, OR
OR Dept. of Fish & Wildlife, Art Martin, OR
OR Dept. of Fish & Wildlife, Devin Simmons, OR
OR Dept. of Fish & Wildlife, Herman Biederbeck, OR
OR Dept. of Fish & Wildlife, Jon Germond, OR
OR Dept. of Fish & Wildlife, Keith Braun, Biologist, OR
OR Dept. of Fish & Wildlife, Rose Owens, Habitat Special
Projects Coordinator, OR
OR Dept. of Fish & Wildlife, Tom Murtaugh, District Fish
Biologist, OR
OR Dept. of Fish & Wildlife, Tom Rein, OR
OR Dept. of Fish & Wildlife, Wayne van der Naald, OR
OR Dept. of Forestry, OR
OR Dept. of Forestry, Dan Goody, Tillamook District Forester,
OR
OR Dept. of Forestry, Forest Grove District, Mike Caferrata,
District Forester, OR
OR Dept. of Forestry, George Pointe, OR
OR Dept. of Forestry, Joe Misek, OR
OR Dept. of Forestry, John Tokarczyk, OR
OR Dept. of Forestry, Ted Lorensen, Assistant State
Forester, OR
OR Dept. of Forestry, Todd Reinwald, State Forest Planning
Coordinator, OR
OR Dept. of Forestry, Tom Savage, District Forester, OR
OR Dept. of Forestry: Astoria Dist., Cullen Bangs, OR
OR Dept. of Geology & Mineral Industries, OR
OR Dept. of Geology & Mineral Industries, Bill Burns,
Engineering Geologist, OR
OR Dept. of Geology & Mineral Industries, Dr. Vicki
McConnell, OR
OR Dept. of Highways, OR
OR Dept. of Justice, Anika Marriott, OR
OR Dept. of Justice, Lore Bensel, OR
OR Dept. of Justice, Paul Garrahan, OR
OR Dept. of Justice, Stephen Sanders, OR
OR Dept. of Justice, Steve Shipsey, OR
OR Dept. of State Lands, Ann Hanus, Director, OR
OR Dept. of State Lands, Clara Taylor, Waterway Lease
Agent, OR
OR Dept. of State Lands, Janet Morlan, OR
OR Dept. of State Lands, Jim Grimes, OR

OR Dept. of State Lands, Kevin Moynahan, OR
OR Dept. of State Lands, Lori Warner-Dickason, OR
OR Dept. of State Lands, Louise Bos, OR
OR Dept. of State Lands, Louise Solliday, Director, OR
OR Dept. of Transportation Dist. 2A, Ron Kroop, OR
OR Dept. of Transportation, OR
OR Dept. of Transportation, OR
OR Dept. of Transportation, District Manager - District 1
Maintenance, OR
OR Dept. of Transportation, David J. Neys, District Manager -
District 1 Maintenance, OR
OR Dept. of Transportation, Donald L. Jordan, OR
OR Dept. of Transportation, Edward Miller, OR
OR Dept. of Transportation, Ingrid Weisenbach, OR
OR Dept. of Transportation, Kelvin Kohanes, OR
OR Dept. of Transportation, Matt Caswell, OR
OR Dept. of Veteran Affairs, OR
OR Economic & Community Development Commission, Carl
Talton, Commissioner, OR
OR Economic & Community Development Commission,
Marty Brantely, Director, OR
OR Economic & Community Development Commission, Ron
Fox, OR
OR Economic & Community Development Commission, Tony
Hyde, Commissioner, OR
OR Governor's Office, Mike Carrier, Natural Resources Policy
Director, OR
OR Historical Society, George L Vogt, Executive Director, OR
OR Invasive Species Council, Plant Division C/O Oregon
Dept. of Agriculture, OR
OR Natural Resources Council, Regna Merritt, Executive
Director, OR
OR Parks & Rec Dept., State Historic Preservation Office, Dr.
Dennis Griffin, OR
OR Parks & Rec Dept., State Historic Preservation Office,
Jason Allen, OR
OR Parks & Rec Dept., State Historic Preservation Office,
Matthew Diederich, OR
OR Parks & Rec Dept., Steve Brutscher, OR
OR Public Utility Commission, Kenneth R. Zimmerman,
Senior Analyst - Electric and Natural Gas Division, OR
OR Public Utility Commission, Lee Beyer, OR
OR State Board of Forestry, OR
OR State Fire Marshall, OR
OR State Marine Board, Randy Henry, OR
OR Water Resources Dept., Dwight French, OR
OR Water Resources Dept., Jerry Sauter, OR
Oregon State Habitat Office, Kim W. Kratz, Director, WA
Dept. of Community, Trade & Economic Dev, Allen Fiksdal,
Manager, Energy, Facility, WA
Dept. of Community, Trade & Economic Dev, Stephen
Posner, EFSEC Specialist, Energy Facility, WA

State Government Agencies – Washington

Dept. of Community, Trade & Economic Dev, Tony Usibelli, Assistant Director Energy Policy Division, WA
Energy Facility Site Evaluation Council, Al Wright, Manager, Energy Facility, WA
Governor's Office of Regulatory Assistance, Alan Bogner, SW Region Lead, WA
Governor's Office of Regulatory Assistance, Jane Dewell, Regional Lead, WA
Northwest Clean Air Agency, Christoforou Christos, Air Quality Engineer, WA
Northwest Clean Air Agency, Christos Christoforou, Air Quality Engineer, WA
Northwest Clean Air Agency, Erica Shuhler, Air Quality Engineer, WA
Office of Regulatory Assistance, Karen Pernerl, Director, WA
Office of the Governor, Joby Shimomura, Chief of Staff, WA
Puget Sound Clear Air Agency, Gerry Pade, Air Quality Engineer, WA
Southwest Clean Air Agency, Vannessa McClelland, Air Quality Engineer, WA
State Historic Preservation Office, Dr. Robert Whitlam, State Archaeologist, WA
State of Washington, WA
State of Washington, Paul L & Karen J Johansen, WA
State School Land, WA
WA Dept. of Commerce, Brian Bonlender, Director, WA
WA Dept. of Ecology, Brenden McFarland, Manager, Shorelands and Environmental Assistance (HQ), WA
WA Dept. of Ecology, Helen Pressley, Shorelands & Environmental Assistance, WA
WA Dept. of Ecology, Jeanie Summerhays, Shorelands & Environmental Assistance, WA
WA Dept. of Ecology, Lori Ochoa, Federal Permit Coordinator, SW Region, WA
WA Dept. of Ecology, Marc Crooks, WA
WA Dept. of Ecology, Paula Ehlers, WA
WA Dept. of Ecology, Perry Lund, WA
WA Dept. of Ecology, Rebecca Schroeder, WA
WA Dept. of Ecology, Rebekah Padgett, Federal Permit Coordinator, NW Region, WA
WA Dept. of Ecology, Ryan Paulsen, WA
WA Dept. of Ecology, Sally Toteff, Director SW Regional Office, WA
WA Dept. of Ecology, Terry Swanson, WA
WA Dept. of Fish and Wildlife - Southwest Region 5, Tim Rymer, Regional Habitat Program Manager, WA
WA Dept. of Fish and Wildlife, Anne Friesz, Assistant Regional Habitat Program Manager, WA
WA Dept. of Fish and Wildlife, Brock Applegate, Major Projects Mitigation Biologist, WA
WA Dept. of Fish and Wildlife, Dave Howe, Program Manager, Region 5, WA
WA Dept. of Fish and Wildlife, Joel Ingram, WA
WA Dept. of Fish and Wildlife, Leonard Machut, WA

WA Dept. of Fish and Wildlife, Region 5, Steve West, Area Habitat Biologist, WA
WA Dept. of Fish and Wildlife, Stephan Kalinowski, Program Manager, WA
WA Dept. of Fish and Wildlife, Wendy Cole, WA
WA Dept. of Natural Resources - Aquatic Region Rivers District, Scott Robinson, WA
WA Dept. of Natural Resources - Aquatic Resources Division, Courtney Wasson, DMMP Manager, WA
WA Dept. of Natural Resources, Art Tasker, Region Manager, WA
WA Dept. of Natural Resources, Ben Cleveland, Region Manager, WA
WA Dept. of Natural Resources, Curt Pavola, WA
WA Dept. of Natural Resources, Darin Cramer, Division Manager, WA
WA Dept. of Natural Resources, Dennis Clark, WA
WA Dept. of Natural Resources, Eric Wilsch, Region Manager, WA
WA Dept. of Natural Resources, Kristin Swenddal, WA
WA Dept. of Natural Resources, WA
WA Dept. of Transportation, WA
WA Dept. of Transportation, Jeff Barsness, Southwest Region Development Services Manager, WA
Washington Governor, Jay Inslee, Governor, WA
Washington Governor's Office, Office of the Governor, WA
Washington State Conservation Commission, WA
Washington State Department of Agriculture, Dan Newhouse, Director, WA
Washington State Department of Game, WA
Washington State Forest Board, WA
Washington State Noxious Weed Control Board, WA
Washington Utilities Transportation Commission, David Lykken, Pipeline Safety Director, WA
Washington Utilities Transportation Commission, Jeffrey Goltz, Chair, WA
Washington Utilities Transportation Commission, Joe Subsits, Pipeline Safety Program, WA
Washington Utilities Transportation Commission, Patrick Oshie, Commissioner, WA
Washington Utilities Transportation Commission, Phil Jones, Commissioner, WA
Washington, State of, Pierce College, WA

Local Government Agencies – Oregon

City of Astoria, Arline LaMear, Councilor, OR
City of Astoria, John Compere, Community Liaison, OR
City of Astoria, Karen Mellin, Councilor, OR
City of Astoria, Peter Roscoe, Councilor, OR
City of Astoria, Russ Warr, Councilor, OR
City of Astoria, Willis VanDusen, Mayor, OR
City of Banks, Brian Biehl, Councilor, OR
City of Banks, Craig Stewart, Councilor, OR
City of Banks, Jason Short, Councilor, OR

Local Government Agencies – Oregon (cont'd)

City of Banks, Pete Edison, Councilor, OR
City of Banks, Ron Kemper, Councilor, OR
City of Banks, Teri Branstitre, Mayor, OR
City of Carlton, Carey Rhoads, Councilor, OR
City of Carlton, David Vandewalle, Councilor, OR
City of Carlton, Ginger Williams, Councilor, OR
City of Carlton, Jesse Berry, Councilor, OR
City of Carlton, Kathie Oriet, Mayor, OR
City of Carlton, Scott Carl, Councilor, OR
City of Carlton, Steven Weaver, City Manager, OR
City of Cornelius, Brad Coffey, Councilor, OR
City of Cornelius, David Waffle, City Manager, OR
City of Cornelius, Jeffrey Dalin, Councilor, OR
City of Cornelius, Neal Knight, Mayor, OR
City of Cornelius, Robert Ferrie, Councilor, OR
City of Cornelius, Steve Heinrich, Councilor, OR
City of Dayton, Jolie White, Mayor, OR
City of Dayton, Monte Blackburn, Councilor, OR
City of Dayton, Sue Hollis, City Manager, OR
City of Forest Grove, Camille Miller, Councilor, OR
City of Forest Grove, Elena Uhing, Councilor, OR
City of Forest Grove, Michael Sykes, City Manager, OR
City of Forest Grove, Pete Truax, Councilor, OR
City of Forest Grove, Richard Kidd, Mayor, OR
City of Forest Grove, Ron Thompson, Councilor, OR
City of Forest Grove, Tom Johnston, Councilor, OR
City of Forest Grove, Victoria Lowe, Councilor, OR
City of Gaston, Dwain McKenzie, Councilor, OR
City of Gaston, Ed Schult, Councilor, OR
City of Gaston, Grace Haines-Kloock, Councilor, OR
City of Gaston, Jon Georg, Councilor, OR
City of Gaston, Richard Sager, Councilor, OR
City of Gaston, Rick Lorenz, Mayor, OR
City of Gearhart, Carole Connell, City Planner, OR
City of Gearhart, Chuck Schluter, Councilor, OR
City of Gearhart, Dennis McNally, Councilor, OR
City of Gearhart, Dianne Widdop, Councilor, OR
City of Gearhart, Dorothy Well, Councilor, OR
City of Gearhart, Ed Tice, Councilor, OR
City of Gearhart, Kent Smith, Mayor, OR
City of Gearhart, Lauren Schibye, Student Representative,
OR
City of Gervais, John Harvey, Council President, OR
City of Gervais, Michael Gregory, Councilor, OR
City of Gervais, Pamela Milam, Councilor, OR
City of Gervais, Sam Sasaki, City Manager, OR
City of Gervais, Sandra Foote, Councilor, OR
City of Gervais, Shanti Platt, City Mayor, OR

City of Gervais, Tony Miller, Councilor, OR
City of Hubbard, Angie Wheatcroft, Councilor, OR
City of Hubbard, Bruce Warner, Councilor, OR
City of Hubbard, Chip Enbody, Councilor, OR
City of Hubbard, Matt Kennedy, Councilor, OR
City of Hubbard, Mike Hill, Planning Commission Chair, OR
City of Hubbard, Tom McCain, Mayor, OR
City of Lafayette, Art Bixman, Councilor, OR
City of Lafayette, Bob Cullen, Councilor, OR
City of Lafayette, Diane Rinks, City Administrator, OR
City of Lafayette, Don Leard, Mayor, OR
City of Lafayette, James Rue, Councilor, OR
City of Lafayette, Lisa Heatherly, Councilor, OR
City of Lafayette, Matt Smith, Councilor, OR
City of Lafayette, Michael Roberts, Councilor, OR
City of McMinnville, Dave Hansen, Councilor, OR
City of McMinnville, Ed Gormley, Mayor, OR
City of McMinnville, Kellie Menke, Councilor, OR
City of McMinnville, Kent Taylor, City Manager, OR
City of McMinnville, Larry Yoder, Councilor, OR
City of McMinnville, Paul May, Councilor, OR
City of McMinnville, Rick Olson, Councilor, OR
City of McMinnville, Scott Hill, Councilor, OR
City of Molalla, Donna Jacober, City Council, OR
City of Molalla, Glen Boreth, City Council, OR
City of Molalla, James Needham, City Council, OR
City of Molalla, Mary Jo Mackie, City Council, OR
City of Molalla, Shane Potter, Planning Director, OR
City of Molalla, Tom Foster, Mayor, OR
City of Saint Paul, Charlie Bernards, Councilor, OR
City of Saint Paul, Jay Phillips, Councilor, OR
City of Saint Paul, Kathy Connor, Mayor, OR
City of Saint Paul, Kelly Fowler, Councilor, OR
City of Saint Paul, Mike Bernard, Councilor, OR
City of Saint Paul, Walt Wendolowski, City Planner, OR
City of Seaside, Dave Moore, Councilor, OR
City of Seaside, Don Johnson, Councilor, OR
City of Seaside, Don Larson, Mayor, OR
City of Seaside, Gary Diebold, Councilor, OR
City of Seaside, Kevin Cupples, City Planner, OR
City of Seaside, Larry Haller, Councilor, OR
City of Seaside, Mark Winstanley, City Manager, OR
City of Seaside, Stubby Lyons, Councilor, OR
City of Seaside, Tim Tolan, Councilor, OR
City of St. Helens, Randy Peterson, Mayor and Interim City
Administrator, OR
City of Warrenton, OR
City of Warrenton, Bob Maxfield, City Manager, OR

Local Government Agencies – Oregon (cont'd)

City of Warrenton, Carol Parker, City Planner, OR
City of Warrenton, Dick Hellberg, OR
City of Warrenton, Don Snyder, Public Works Director, OR
City of Warrenton, Edward Madere, City Manager, OR
City of Warrenton, Frank Orrell, City Council, OR
City of Warrenton, James (Lessee) Scarborough, OR
City of Warrenton, Mark Kujala, Mayor, OR
City of Warrenton, Russ Farmer, OR
City of Warrenton, Skip Urling, Community Development Director, OR
City of Warrenton, Ted Ames, Fire Chief, OR
City of Warrenton, Terry Ferguson, City Council, OR
City of Woodburn, City Council, OR
City of Woodburn, City Planner, OR
City of Woodburn, John Brown, City Administrator, OR
City of Woodburn, Kathy Figley, Mayor, OR
City of Yamhill, Kay Echaury, Councilor, OR
City of Yamhill, Melvin Jordan, Council President, OR
City of Yamhill, Paula Terp, Councilor, OR
City of Yamhill, Randy Murphy, Mayor, OR
City of Yamhill, Senz Chris, Councilor, OR
Clackamas County, Martha Schrader, Commissioner, OR
Clatsop County Board of Commissioners, Peter Huhtala, Chairperson, OR
Clatsop County Farm Bureau, Mike Seppa, OR
Clatsop County Planning Dept., Kathleen Sellman, CDD Director, OR
Clatsop County, Ann Samuelson, Commissioner, OR
Clatsop County, Helen Westbrook, Commissioner, OR
Clatsop County, Hiller West, Director, Land Use Planning, OR
Clatsop County, Jeff Hazen, Commissioner, OR
Clatsop County, Jennifer Bunch, OR
Clatsop County, Lyla Gaebel, Commissioner, OR
Clatsop County, Patricia Roberts, Commissioner, OR
Clatsop County, Richard Lee, Commissioner, OR
Clatsop County, Samuel Patrick, Commissioner, OR
Clatsop Soil & Water Conservation District, Misty Ogier, OR
Columbia County, Joe Corsiglia, Commissioner, OR
Columbia County, Rita Bernhard, Commissioner, OR
Columbia County, Todd Dugdale, Land Development Services Director, OR
Columbia County, Tony Hyde, Commissioner, OR
Columbia River Estuary Study Taskforce, Denise Lofman, Director, OR
Columbia River PUD, OR
Marion County Farm Bureau, Dan Goffin, President, OR
Marion County, Janet Carlson, Commissioner, OR
Marion County, Patti Milne, Commissioner, OR
Marion County, Sam Brentano, Commissioner, OR

Tillamook County, Brad Sheets, Associate Planner, OR
Tillamook County, Mark Labhart, Commissioner, OR
Tillamook County, Tim Josi, Commissioner, OR
Tualatin Soil & Water Conservation District Board, Jerry Ward, Chair, OR

Washington County, Andy Duyck, Commissioner, OR
Washington County, Dick Schouten, Commissioner, OR
Washington County, Roy Rogers, Commissioner, OR
Washington County, Terry Lawler, OR
Washington County, Tom Brian, Commissioner, OR
Yamhill County, Kathy George, Commissioner, OR
Yamhill County, Leslie Lewis, Commissioner, OR
Yamhill County, Mary Stern, Commissioner, OR

Local Government Agencies – Washington

City of Auburn, Bill Peloza, Councilor, WA
City of Auburn, Bob Lee, Police Chief, WA
City of Auburn, Chris Andersen, WA
City of Auburn, Claude DaCorsi, Councilor, WA
City of Auburn, Daniel B. Heid, City Attorney, WA
City of Auburn, Daryl Faber, Parks & Recreation, WA
City of Auburn, Jeff Tate, Assistant Director, Community Development, WA
City of Auburn, John Holman, Councilor, WA
City of Auburn, Kevin Snyder, Public Works Director, WA
City of Auburn, Largo Wales, Councilor, WA
City of Auburn, Nancy Backus, Mayor, WA
City of Auburn, Nancy Welch, Director of Planning, WA
City of Auburn, Richard Wagner, Deputy Mayor, WA
City of Auburn, Wayne Osborne, Councilor, WA
City of Auburn, Yolanda Trout, Councilor, WA
City of Bellingham, Cathy Lehman, Councilor, WA
City of Bellingham, Gene Knutson, Councilor, WA
City of Bellingham, Jack Weiss, Councilor, WA
City of Bellingham, James King, Parks & Recreation Director, WA
City of Bellingham, Jeff Thomas, Planning Director, WA
City of Bellingham, Kelli Linville, Mayor, WA
City of Bellingham, Mark Gill, Interim Police Chief, WA
City of Bellingham, Michael Lilliquist, Councilor, WA
City of Bellingham, Peter Raffato, City Attorney, WA
City of Bellingham, Pinky Vargas, Councilor, WA
City of Bellingham, Roger Christensen, Fire Chief, WA
City of Bellingham, Roxanne Murphy, Councilor, WA
City of Bellingham, Ted Carlson, Public Works Director, WA
City of Bellingham, Terry Bornemann, Councilor, WA
City of Bonney Lake, Dan Grisby, Public Works Director, WA
City of Bonney Lake, Dan Morrison, City Administrator, WA
City of Bonney Lake, Dan Swatman, Councilor, WA
City of Bonney Lake, Dana Powers, Police Chief, WA

Local Government Agencies – Washington (cont'd)

City of Bonney Lake, Donn Lewis, Councilor, WA
City of Bonney Lake, James Rackley, Councilor, WA
City of Bonney Lake, Jason Sullivan, Senior Planner, WA
City of Bonney Lake, John Vodopich, Community Development Dir., WA
City of Bonney Lake, Katrina Minton-Davis, Councilor, WA
City of Bonney Lake, Mark Hamilton, Councilor, WA
City of Bonney Lake, Neil Johnson, Mayor, WA
City of Bonney Lake, Randy McKibbin, Councilor, WA
City of Bonney Lake, Tom Watson, Councilor, WA
City of Burlington, Bill Van Wieringen, Police Chief, WA
City of Burlington, Bill Aslett, Councilor, WA
City of Burlington, Chris Loving, Councilor, WA
City of Burlington, Dave Nielson, Fire Chief, WA
City of Burlington, Edie Edmundson, Councilor, WA
City of Burlington, Garnor Bensen, Councilor, WA
City of Burlington, Margaret Fleek, Planning Director, WA
City of Burlington, Mary Pulst P.E., Public Works Director, WA
City of Burlington, Rick DeGloria, Councilor, WA
City of Burlington, Steve Sexton, Mayor, WA
City of Burlington, Ted Montgomery, Councilor, WA
City of Burlington, Tonya Bieche, Councilor, WA
City of Castle Rock, Bob Heuer, Police Chief, WA
City of Castle Rock, David Vorse, Public Works Director, WA
City of Castle Rock, Earl Queen, Councilor, WA
City of Castle Rock, Ellen Rose, Councilor, WA
City of Castle Rock, Glenn Pingree, Councilor, WA
City of Castle Rock, Mike Davis, Councilor, WA
City of Castle Rock, Paul Helenberg, Mayor, WA
City of Castle Rock, Ray Teter, Councilor, WA
City of Castle Rock, T.J. Keiran, City Planner, WA
City of Centralia, Bart Ricks, Councilor, WA
City of Centralia, Bonnie Canaday, Councilor, WA
City of Centralia, Emil Pierson, Community Development Director, WA
City of Centralia, Gabe Anzelini, Councilor, WA
City of Centralia, Harlan Thompson, Mayor, WA
City of Centralia, Jim Walkowski, Fire Chief, WA
City of Centralia, John Elmore, Councilor, WA
City of Centralia, Kahle Jennings, Public Works Director, WA
City of Centralia, Lee Coumbs, Councilor, WA
City of Centralia, Patrick Gallagher, Councilor, WA
City of Centralia, Rob Hill, City Manager, WA
City of Centralia, Robert Berg, Police Chief, WA
City of Centralia, Ron Greenwood, Councilor, WA
City of Centralia, Shannon Murphy, City Attorney, WA
City of Centralia, Tammy Baraconi, Planning Director, WA
City of Chehalis, Anthony Ketchum, Mayor, WA

City of Chehalis, Chad Taylor, Councilor, WA
City of Chehalis, Daryl Lund, Councilor, WA
City of Chehalis, Dennis Dawes, Councilor, WA
City of Chehalis, Dennis Osborne, Community Development Dir., WA
City of Chehalis, Glenn Schaffer, Police Chief, WA
City of Chehalis, Issac Pope, Councilor, WA
City of Chehalis, Jim Walkowski, Fire Chief, WA
City of Chehalis, Merlin MacReynold, City Manager, WA
City of Chehalis, Rick Sahlin, Public Works Director, WA
City of Chehalis, Robert Spahr, Councilor, WA
City of Chehalis, Terry Harris, Mayor Pro-Tem, WA
City of Chehalis, William Hillier, City Attorney, WA
City of Covington, Derek M. Matheson, City Manager, WA
City of Covington, Don Vondran, Public Works Director, WA
City of Covington, James Scott, Councilor, WA
City of Covington, Jeff Wagner, Mayor Pro-Tem. Councilor, WA
City of Covington, Joseph Cimaomo Jr., Councilor, WA
City of Covington, Kevin Klason, Police Chief, WA
City of Covington, Margaret Harto, Mayor, WA
City of Covington, Mark Lanza, Councilor, WA
City of Covington, Marlla Mhoon, Councilor, WA
City of Covington, Nelson Ogren, WA
City of Covington, Richard Hart, Community Development Dir., WA
City of Covington, Salina Lyons, Principal Planner, WA
City of Covington, Scott Thomas, Parks & Recreation Director, WA
City of Covington, Wayne Snoey, Councilor, WA
City of Everett, WA
City of Everett, Allan Giffen, Planning Director, WA
City of Everett, Dave Davis, Public Works Director, WA
City of Everett, Kathy Atwood, Police Chief, WA
City of Everett, Murray Gordon, Fire Chief, WA
City of Everett, Paul Kaftanski, Parks Director, WA
City of Everett, Richard Anderson, Councilor, WA
City of Everson, Andy Jewell, Councilor, WA
City of Everson, Andy Rowlson, Councilor, WA
City of Everson, Dan MacPhee, Police Chief, WA
City of Everson, Eric Oettel, Councilor, WA
City of Everson, Jennifer Lautenbach, Councilor, WA
City of Everson, John Sitkin, City Attorney, WA
City of Everson, Rick Holt, Public Works Director, WA
City of Everson, Rollin Harper, Planning Director, WA
City of Granite Falls, Brent Kirk, Public Works Supervisor, WA
City of Granite Falls, Don Lauer, Acting Police Chief, WA
City of Granite Falls, Joshua Golston, Mayor, WA
City of Granite Falls, Matt Hartman, Councilor, WA
City of Granite Falls, Ray Sturtz, Planning Director, WA

Local Government Agencies – Washington (cont'd)

City of Granite Falls, Suzie Ashworth, Councilor, WA
City of Granite Falls, Tess Greene, Councilor, WA
City of Granite Falls, Thomas Fitzgerald, Councilor, WA
City of Granite Falls, Tom Collins, Councilor, WA
City of Ilawco, Flint Wright, Police Chief, WA
City of Ilawco, Tom Williams, Fire Chief, WA
City of Issaquah, WA
City of Issaquah, Anne McGill, Parks & Recreation Director, WA
City of Issaquah, Brenda Bramwell, Emergency Mgmt. Coordinator, WA
City of Issaquah, Charlie Bush, Deputy City Administrator, WA
City of Issaquah, Eileen Barber, Councilor, WA
City of Issaquah, Fred Butler, Mayor, WA
City of Issaquah, Jason Rogers, Developmental Services, WA
City of Issaquah, Joshua Schaer, Councilor, WA
City of Issaquah, Keith Niven, Economic Development Director, WA
City of Issaquah, Lee A. Soptich, Fire Chief, WA
City of Issaquah, Lynne Sheldon, Public Works Director, WA
City of Issaquah, Mark Hinthorne, Planning Director, WA
City of Issaquah, Mary Lou Pauly, Councilor, WA
City of Issaquah, Matt Mechler, Open Space Steward, WA
City of Issaquah, Nina Milligan, Councilor, WA
City of Issaquah, Paul Ayers, Chief of Police, WA
City of Issaquah, Paul Winterstein, Councilor, WA
City of Issaquah, Stacy Goodman, Councilor, WA
City of Issaquah, Tola Marts, Councilor, WA
City of Kalama, Adam Smee, City Administrator, WA
City of Kalama, Dominic Ciancibelli, Councilor, WA
City of Kalama, Donald Purvis, Mayor Pro-Tem, WA
City of Kalama, Mary Putka, Councilor, WA
City of Kalama, Matt Hermen, Planning Director, WA
City of Kalama, Mike Langham, Councilor, WA
City of Kalama, Mike Truesdell, Councilor, WA
City of Kalama, Paul Brachvogel, City Attorney, WA
City of Kalama, Pete Poulsen, Mayor, WA
City of Kalama, Randy Gibson, Police Chief, WA
City of Kelso, Andrew O. Hamilton, Police Chief, WA
City of Kelso, Dan Myers, Councilor, WA
City of Kelso, David Futcher, Mayor, WA
City of Kelso, Frank Randolph, City Attorney, WA
City of Kelso, Gary Archer, Councilor, WA
City of Kelso, Gary Schimmel, Councilor, WA
City of Kelso, Kim Lefebvre, Councilor, WA
City of Kelso, Michael Kardas, Community Development Dir., WA
City of Kelso, Rick Roberson, Councilor, WA

City of Kelso, Steve Taylor, City Manager, WA
City of Kelso, Todd McDaniel, Deputy Mayor, WA
City of Kent, Bill Boyce, Councilor, WA
City of Kent, Dana Ralph, Councilor, WA
City of Kent, Deborah Ranniger, Councilor, WA
City of Kent, Dennis Higgins, Councilor, WA
City of Kent, Fred Satterstrom, Planning Director, WA
City of Kent, Jim Berrios, Councilor, WA
City of Kent, Jim Schneider, Fire Chief, WA
City of Kent, John Hodgson, Chief Administrative Officer, WA
City of Kent, Kelly Peterson, AICP, Environmental Conservation Supervisor, WA
City of Kent, Ken Thomas, Police Chief, WA
City of Kent, Kurt Hanson, AICP, Economic Development Manager, WA
City of Kent, Les Thomas, Councilor, WA
City of Kent, Suzette Cooke, Mayor, WA
City of Kent, Tim LaPorte, Public Works Director, WA
City of Kent, Tom Brubaker, City Attorney, WA
City of Lake Stevens, Becky Ableman, Planning Director, WA
City of Lake Stevens, John Spencer, Councilor, WA
City of Lake Stevens, Kathy Holder, Councilor, WA
City of Lake Stevens, Kim Daughtry, Councilor, WA
City of Lake Stevens, Marcus Tageant, Councilor, WA
City of Lake Stevens, Mark Somers, Councilor, WA
City of Lake Stevens, Mike Monken, Public Works Director, WA
City of Lake Stevens, Randy Celori, Police Chief, WA
City of Lake Stevens, Sam Low, Councilor, WA
City of Lake Stevens, Suzanne Quigley, Councilor, WA
City of Lake Stevens, Vern Little, Mayor, WA
City of Longview, Bob Gregory, City Manager, WA
City of Maple Valley, Bill Allison, Mayor, WA
City of Maple Valley, Christy Todd, City Attorney, WA
City of Maple Valley, David Johnston, City Manager, WA
City of Maple Valley, Erin Weaver, Councilor, WA
City of Maple Valley, Greg Brown, Parks & Recreation Director, WA
City of Maple Valley, Layne Barnes, Councilor, WA
City of Maple Valley, Linda Johnson, Councilor, WA
City of Maple Valley, Matt Torpey, Senior Planner, WA
City of Maple Valley, Noel Gerken, Councilor, WA
City of Maple Valley, Sean Kelly, Deputy Mayor, WA
City of Maple Valley, Steve Clark, Public Works Director, WA
City of Maple Valley, Victoria Laise Jonas, Councilor, WA
City of Marysville, Donna Wright, Councilor, WA
City of Marysville, Gloria Hirashima, Community Development Dir., WA
City of Marysville, Jeff Seibert, Councilor, WA
City of Marysville, Jeffrey Vaughan, Mayor Pro Tem, WA

Local Government Agencies – Washington (cont'd)

City of Marysville, Jim Ballew, Parks & Recreation Director, WA
City of Marysville, Jon Nehring, Mayor, WA
City of Marysville, Kamille Norton, Councilor, WA
City of Marysville, Kevin Nielsen, Public Works Director, WA
City of Marysville, Michael Stevens, Councilor, WA
City of Marysville, Rick Smith, Police Chief, WA
City of Marysville, Roy Toyer, Councilor, WA
City of Marysville, Steven C. Muller, Councilor, WA
City of Monroe, Brad Feilberg, P.E., Public Works Director, WA
City of Monroe, Ed Davis, Councilor, WA
City of Monroe, Geoffrey Thomas, Mayor, WA
City of Monroe, Jamie Silva, Fire Chief, WA
City of Monroe, Jason Gamble, Councilor, WA
City of Monroe, Jeff Rasmussen, Councilor, WA
City of Monroe, Jim Kamp, Councilor, WA
City of Monroe, Kevin Hanford, Councilor, WA
City of Monroe, Kurt Goering, Councilor, WA
City of Monroe, Mike Farrell, Parks & Recreation Director, WA
City of Monroe, Patsy Cudaback, Councilor, WA
City of Monroe, Paul Popelka, RLA/AICP, Planning & Permitting Manager, WA
City of Monroe, T. Quenzer, Police Chief, WA
City of Mount Vernon, Bob Fiedler, Councilor, WA
City of Mount Vernon, Dale Ragan, Councilor, WA
City of Mount Vernon, Esco Bell P.E., Public Works Director, WA
City of Mount Vernon, Gary Molenaar, Councilor, WA
City of Mount Vernon, Jill Boudreau, Mayor, WA
City of Mount Vernon, Joe Lindquist, Councilor, WA
City of Mount Vernon, Ken Quam, Councilor, WA
City of Mount Vernon, Larry Otos, Parks & Recreation Director, WA
City of Mount Vernon, Mark Hulst, Councilor, WA
City of Mount Vernon, Mike Urban, Councilor, WA
City of Napavine, Jennifer Slemp, Councilor, WA
City of Napavine, John Sayers, Mayor, WA
City of Napavine, Kenneth Twining, Superintendent, WA
City of Napavine, LaVerne Haslett, Councilor, WA
City of Napavine, Lionel Pinn, Councilor, WA
City of Napavine, Robert A. Wheeler, Councilor, WA
City of Napavine, S. Elwood, Officer in Charge, WA
City of Napavine, Scott Hamilton, Councilor, WA
City of Napavine, Steve Ashley, Community Development Director, WA
City of Nooksack, Bruce Likkel, Public Works Director, WA
City of Nooksack, Daniel Bennett, Councilor, WA
City of Nooksack, Fritz Zemler, Councilor, WA

City of Nooksack, Jim Ackerman, Mayor, WA
City of Nooksack, Marshall Judy, Councilor, WA
City of Nooksack, Mel Blankers, Fire Chief, WA
City of Nooksack, Scott Bodven, Councilor, WA
City of Nooksack, Tom Fryer, City Attorney, WA
City of Nooksack, Tom Jones, Councilor, WA
City of Puyallup, Brian Jeter, Police Chief, WA
City of Puyallup, Dan Handa, Public Park, WA
City of Puyallup, Heather Shadko, Councilor, WA
City of Puyallup, John D. Knutsen, Deputy Mayor, WA
City of Puyallup, John Hopkins, Councilor, WA
City of Puyallup, John Palmer, Councilor, WA
City of Puyallup, Julie Door, Councilor, WA
City of Puyallup, Kevin Yamato, City Attorney, WA
City of Puyallup, Rick Hansen, Councilor, WA
City of Puyallup, Rob Andreotti, Public Works Director, WA
City of Puyallup, Sarah Harris, Parks Administrator, WA
City of Puyallup, Steve Vermillion, Councilor, WA
City of Puyallup, Tom Swanson, Councilor, WA
City of Puyallup, Tom Utterback, Planning Director, WA
City of Puyallup, William McDonald, City Manager, WA
City of Rainier, Fire Chief, WA
City of Rainier, Bob Shaw, Councilor, WA
City of Rainier, Christine Winslow, Councilor, WA
City of Rainier, Dennis McVey, Councilor, WA
City of Rainier, Fred Evander, Planning Director, WA
City of Rainier, Kristin Guizzetti, Councilor, WA
City of Rainier, Randy Schleis, Mayor, WA
City of Rainier, Ronald Gibson, Public Works Director, WA
City of Rainier, Tom Ambrister, Councilor, WA
City of Rainier, William Cameron, City Attorney, WA
City of Sammamish Finance Dept, Jeff Brauns, City Engineer, WA
City of Sammamish, Ben Yazici, City Manager, WA
City of Sammamish, Bob Keller, Councilor, WA
City of Sammamish, Darci Donovan, Permit Manager, WA
City of Sammamish, Don Gerend, Councilor, WA
City of Sammamish, Jessi Bon, Parks & Recreation Director, WA
City of Sammamish, Kamuron Gurol, Planning Director, WA
City of Sammamish, Kathy Huckabay, Councilor, WA
City of Sammamish, Laura Philpot, Public Works Director, WA
City of Sammamish, Linda Frkuska, Parks & Recreation Deputy Director, WA
City of Sammamish, Nancy Whitten, Councilor, WA
City of Sammamish, Nate Elledge, Police Chief, WA
City of Sammamish, Ramiro Valderrama- Aramayo, Councilor, WA
City of Sammamish, Tom Odell, Mayor, WA

Local Government Agencies – Washington (cont'd)

City of Sammamish, Tom Vance, Councilor, WA
City of Sedro-Woolley, Brenda Kinzer, Councilor, WA
City of Sedro-Woolley, Bret Sandstrom, Councilor, WA
City of Sedro-Woolley, Dean Klinger, Fire Chief, WA
City of Sedro-Woolley, Doug Wood, Police Chief, WA
City of Sedro-Woolley, Eron Berg, City Attorney, WA
City of Sedro-Woolley, Germaine Kornegay, Councilor, WA
City of Sedro-Woolley, Hugh Galbraith, Councilor, WA
City of Sedro-Woolley, Jack Moore, Planning Director, WA
City of Sedro-Woolley, Keith Wagoner, Councilor, WA
City of Sedro-Woolley, Kevin Loy, Councilor, WA
City of Sedro-Woolley, Mike Anderson, Mayor, WA
City of Sedro-Woolley, Nathan Salseina, Parks & Recreation Supervisor, WA
City of Sedro-Woolley, Rick Lemley, Councilor, WA
City of Snohomish, Corbitt Loch, Planning Director, WA
City of Snohomish, Dave Bender, Parks & Facilities Division Lead, WA
City of Snohomish, Dean Randall, Councilor, WA
City of Snohomish, Debbie Emge, Economic Development Manager, WA
City of Snohomish, Derrick Burke, Councilor, WA
City of Snohomish, Grant Weed, City Attorney, WA
City of Snohomish, John Turner, Police Chief, WA
City of Snohomish, Karen Guzak, Mayor, WA
City of Snohomish, Lynn Schilaty, Councilor, WA
City of Snohomish, Michael Rohrscheib, Councilor, WA
City of Snohomish, Paul Kaftanski, Councilor, WA
City of Snohomish, Tim Cross, Public Works Inspector, WA
City of Snohomish, Tim Heydon, Public Works Director, WA
City of Snohomish, Tom Hamilton, Councilor, WA
City of Sumas, Bob Bromley, Mayor, WA
City of Sumas, Bruce Bosch, Councilor, WA
City of Sumas, Chris Haugen, Police Chief, WA
City of Sumas, Gary Debont, Councilor, WA
City of Sumas, Jerry DeBruin, Fire Chief, WA
City of Sumas, Jim Wright, City Attorney, WA
City of Sumas, Leige Clare, Councilor, WA
City of Sumas, Mike Quinn, Councilor, WA
City of Sumas, Rod Fadden, Public Works Director, WA
City of Sumas, Todd Daniels, Councilor, WA
City of Sumner, Bill Pugh, Public Works Director, WA
City of Sumner, Brad Moericke, Police Chief, WA
City of Sumner, Brett Vinson, City Attorney, WA
City of Sumner, Cindi Hochstatter, Councilor, WA
City of Sumner, Curt Brown, Councilor, WA
City of Sumner, David Enslow, Mayor, WA
City of Sumner, Earle Stuard, Councilor, WA
City of Sumner, Greg Schwayer, WA

City of Sumner, Joe Fessler, WA
City of Sumner, Kathy Hayden, Councilor, WA
City of Sumner, Mike LeMaster, Deputy Mayor, WA
City of Sumner, Nancy Dumas, Councilor, WA
City of Sumner, Paul Rogerson, Planning Director, WA
City of Sumner, Rebecca Coleman, Permit Specialist, WA
City of Sumner, Steve Allsop, Councilor, WA
City of Tacoma Water, Real Estate Management, WA
City of Toledo, Bill Boehm, City Attorney, WA
City of Toledo, Carol Hill, Councilor, WA
City of Toledo, Craig McCown, Public Works Director, WA
City of Toledo, Guy Spratt, Councilor, WA
City of Toledo, Jerry Pratt, Mayor, WA
City of Toledo, John Brockmueller, Police Chief, WA
City of Toledo, Michelle Whitten, WA
City of Toledo, Mike Thomas, Councilor, WA
City of Toledo, Nathan Cook, Councilor, WA
City of Toledo, Steve Dobosh, Councilor, WA
City of Vader, Andy Wilson, Councilor, WA
City of Vader, Dana Williams, City Attorney, WA
City of Vader, Janet Charlton, Councilor, WA
City of Vader, Ken Smith, Mayor, WA
City of Vader, Kevin Flynn, Councilor, WA
City of Vader, Rodney Allison, Councilor, WA
City of Vader, Sean Uhlich, Police Chief, WA
City of Vader, Sharron Ross, Councilor, WA
City of Vader, Wanda Barzda, Public Works Director, WA
City of Winlock, Amanda C. Vey, City Attorney, WA
City of Winlock, Barbara Pedersen, Councilor, WA
City of Winlock, Denise Green, Councilor, WA
City of Winlock, Dennis Korpi, Councilor, WA
City of Winlock, Glen Cook, Mayor, WA
City of Winlock, Gregg Robinson, Public Works Director, WA
City of Winlock, Jerry Rader, Councilor, WA
City of Winlock, Pat Anderson, Councilor, WA
City of Winlock, Tammy Hamilton, Planning Director, WA
City of Winlock, Terry Williams, Police Chief, WA
City of Woodland, WA
City of Woodland, Al Swindell, Councilor, WA
City of Woodland, Amanda Smeller, Community Development Planner, WA
City of Woodland, Bart Stepp P.E., Public Works Director, WA
City of Woodland, Benjamin Fredricks, Councilor, WA
City of Woodland, Grover Laseke, Mayor, WA
City of Woodland, Jennifer Heffernan, Councilor, WA
City of Woodland, Marilee McCall, Councilor, WA
City of Woodland, Marshall Allen, Councilor, WA
City of Woodland, Rob Stephenson, Police Chief, WA
City of Woodland, Scott Perry, Councilor, WA

Local Government Agencies – Washington (cont'd)

City of Woodland, Susan Humbyrd, Councilor, WA
City of Yelm, Bob Isom, Councilor, WA
City of Yelm, Grant Beck, Community Development Dir., WA
City of Yelm, Joe Baker, Councilor, WA
City of Yelm, JW Foster, Councilor, WA
City of Yelm, Ken Garmann, Councilor, WA
City of Yelm, Mark King, Fire Chief, WA
City of Yelm, Mike McGowan, Councilor, WA
City of Yelm, Ron Harding, Mayor, WA
City of Yelm, Russ Hendrickson, Councilor, WA
City of Yelm, Ryan Johnstone, Public Works Director, WA
City of Yelm, Todd Stancil, Police Chief, WA
City of Yelm, Tracey Wood, Councilor, WA
Clark County, Anna Pendergrass, Emergency Management, WA
Clark County, David Madore, County Commissioner, WA
Clark County, Dennis Mason, County Fire Chief, WA
Clark County, Garry E. Lucas, County Sheriff, WA
Clark County, Mark McCauley, County Administrator, WA
Clark County, Oliver Orjiako, County Planning Director, WA
Clark County, Peter Capell, County Public Works Director, WA
Clark County, Sonja Wisser, Community Development, WA
Clark County, Steve Stuart, County Commissioner, WA
Clark County, Tom Mielke, County Commissioner, WA
Clark County, WA, Matt Hall, Project Manager-Dept of Public Works, WA
Clark Public Utilities, Sharon Crouch, Loss Control Manager, WA
Cowlitz Conservation District, WA
Cowlitz County Board of Commissioners, George Raiter, Chair, WA
Cowlitz County CDID #2, WA
Cowlitz County CDID #2, WA
Cowlitz County Fire District 5, Victor Leatzow, Fire Chief, WA
Cowlitz County PUD, WA
Cowlitz County Weed Control Board, WA
Cowlitz County, WA
Cowlitz County, Dennis Weber, County Commissioner, WA
Cowlitz County, E. Elaine Placido, Dir. Building & Planning, WA
Cowlitz County, Ernie Schnabler, County Emergency Management, WA
Cowlitz County, James Misner, County Commissioner, WA
Cowlitz County, Kent Cash, County Public Works Director, WA
Cowlitz County, Mark S. Nelson, County Sheriff, WA
Cowlitz County, Michael A. Karnofski, County Commissioner, WA
Cowlitz County, Phillip Rupp, Planning Manager, WA

Cowlitz County, Ron Junker, WA
Cowlitz Economic Development Council, Rotary Club of Longview, Ted Sprague, President, WA
Dept. of Public Works Environmental Permitting, Karen Streeter, Environmental Permitting Manager, WA
Dept. of Public Works-Operations Division, Dean Shadix, Sr. Engineering Technician Utility Inspection, WA
King Conservation District, WA
King County Noxious Weed Board, WA
King County Noxious Weed Control Program, Steven Burke, Manager, WA
King County, Dow Constantine, County Executive, WA
King County, Jane Hague, County Councilor, WA
King County, Joe McDermott, County Councilor, WA
King County, John Urquhart, County Sheriff, WA
King County, Kathy Lambert, County Councilor, WA
King County, Larry Gossett, County Councilor, WA
King County, Larry Phillips, County Councilor, WA
King County, Laura Casey, Environmental Scientist, WA
King County, Pete von Reichbauer, County Councilor, WA
King County, Reagan Dunn, County Councilor, WA
King County, Rod Dembowski, County Councilor, WA
King County, Ron Ainslie, Site Development Specialist, WA
King County, Walt Hubbard, Emergency Management, WA
King County-Parks, WA
Lewis County Conservation District, WA
Lewis County Weed Control, WA
Lewis County, Bill Schulte, County Commissioner, WA
Lewis County, Bob Johnson, County Planning Director, WA
Lewis County, Edna Fund, County Commissioner, WA
Lewis County, Lee Grose, County Commissioner, WA
Lewis County, Lee Napier, Community Development Dir., WA
Lewis County, Ross McDowell, Emergency Management, WA
Lewis County, Steve Mansfield, County Sheriff, WA
Noxious Weed Board, William Rogers, Coordinator, WA
Pacific County, Bryan Harrison, Pacific County Courthouse Annex, WA
Pacific County, Clay Hardwood, Commissioner, WA
Pacific County, John Kaino, Commissioner, WA
Pacific County, Mike DeSimone, Pacific County Courthouse Annex, WA
Pacific County, Norman "Bud" Cuffel, Commissioner, WA
Pierce Conservation District, WA
Pierce County Fire Protection 22, WA
Pierce County Noxious Weed Control Board, WA
Pierce County Parks, Parks & Recreation, WA
Pierce County Public Works & Utilities, Kyle Dworchak, Transportation Services, WA
Pierce County, WA
Pierce County, Transportation Services, WA
Pierce County, Brian D. Stacy, P.E., County Engineer, WA

Local Government Agencies – Washington (cont'd)

Pierce County, Brian J. Ziegler, County Public Works Director, WA
Pierce County, Brynn Brady, Government Relations Coordinator, WA
Pierce County, Connie Ladenburg, County Council, WA
Pierce County, Dan Roach, County Council, WA
Pierce County, Denise Dyer, Manager, Economic Devel, WA
Pierce County, Dennis Hanberg, County Planning Director, WA
Pierce County, Diane Ryba, Environmental Biologist, WA
Pierce County, Douglas Richardson, County Council, WA
Pierce County, Jennifer Joly, Government Relations Director, WA
Pierce County, Jennifer Walker, SR/WA, ROW Section Supervisor, WA
Pierce County, Joyce McDonald, County Council, WA
Pierce County, Kathryn Kravit-Smith, Director, Parks & Recreation, WA
Pierce County, Mark Maenhout, Director, Risk Management, WA
Pierce County, Pat McCarthy, County Executive, WA
Pierce County, Paul A. Pastor, County Sheriff, WA
Pierce County, Rick Talbert, County Council, WA
Pierce County, Roger Bush, County Council, WA
Pierce County, Stan Flemming, County Council, WA
Pierce County, Steven Bailey, Emergency Management, WA
Pierce County, Toby Rickman, P.E., Deputy Director, Public Wo, WA
Pierce County, William Sleeth, PLS, Survey Supervisor, WA
Public Utility District, Larry Saunders, WA
Skagit Co Public Utility District, Al Littlefield, WA
Skagit Conservation District, WA
Skagit County, Brian Adams, Parks & Recreation Director, WA
Skagit County, Dale Pernula, Planning Director, WA
Skagit County, Dan Berentson, Public Works Interim Director, WA
Skagit County, Gary Christensen, County Planning Director, WA
Skagit County, Kelly Blaine, County Fire Chief, WA
Skagit County, Ken Dahlstedt, County Commissioner, WA
Skagit County, Mark Watkinson, Emergency Management, WA
Skagit County, Ron Wesen, County Commissioner, WA
Skagit County, Sharon Dillon, County Commissioner, WA
Skagit County, Will Reichardt, County Sheriff, WA
Skagit Public Utility Distric, Lora Elsom, Environmental Services Coordinator, WA
Snohomish Conservation District, Monte Marti, Distric Manager, WA
Snohomish County Department of Public Works, David Evans, WA

Snohomish County Noxious Weed Control Board, WA
Snohomish County Parks & Recreation, Dianne Bailey, Park Property Administrator, WA
Snohomish County Parks & Recreation, James Yap, Principal Park Planner, WA
Snohomish County, Brian Sullivan, Councilor, WA
Snohomish County, Clay White, County Planning Director, WA
Snohomish County, Dave Somers, Councilor, WA
Snohomish County, Frank Scherf, Senior Planner, WA
Snohomish County, John Lovick, County Executive, WA
Snohomish County, John Lovick, County Sheriff, WA
Snohomish County, John Pennington, Emergency Management, WA
Snohomish County, Ken Klein, Councilor, WA
Snohomish County, Stephanie Wright, Councilor, WA
Snohomish County, Steve Thomsen, Public Works Director, WA
Snohomish County, Terry Ryan, Councilor, WA
Snohomish County, Ty Trenary, County Sheriff, WA
Thurston Conservation District, WA
Thurston County Noxious Weed Control Agency, WA
Thurston County Parks, WA
Thurston County, Cathy Wolfe, County Commissioner, WA
Thurston County, Cliff Moore, County Manager, WA
Thurston County, Cythia Wilson, Senior Planner, WA
Thurston County, Donovan Willcutt, Public Works Director, WA
Thurston County, John Snaza, County Sheriff, WA
Thurston County, Mark Swartout, Natural Resource Program Manager, WA
Thurston County, Sandra Romero, County Commissioner, WA
Thurston County, Sandra Romero, County Commissioner, WA
Thurston County, Scott Clark, Planning Director, WA
Whatcom Conservation District, WA
Whatcom County, Barbara Brenner, County Council, WA
Whatcom County, Barry Buchanan, County Council, WA
Whatcom County, Bill Elfo, County Sheriff, WA
Whatcom County, Carl Weimer, County Council, WA
Whatcom County, Frank M. Abart, County Public Works Director, WA
Whatcom County, J.E. Ryan, County Fire Chief, WA
Whatcom County, Ken Mann, County Council, WA
Whatcom County, Lyn Morgan-Hill, Senior Planner, WA
Whatcom County, Michael McFarlane, Director of Parks & Recreation, WA
Whatcom County, Pete Kremen, County Executive, WA
Whatcom County, Rodney Lamb, Design & Development Supervisor, WA
Whatcom County, Rud Browne, County Council, WA

Local Government Agencies – Washington (cont'd)

Whatcom County, Sam Crawford, County Council, WA
Whatcom County, Suzanne Bosman, Senior Planner, WA

Native American Groups

Chehalis Confederated Tribes, David Burnett, Chair, WA
Chinook Indian Tribe, Tony Johnson, Cultural Resources, WA
Chinook Nation, Ray Gardner, Council Chairman, WA
Clatsop-Nehalem Confederated Tribes, Joseph Scovell, OR
Columbia River Inter-Tribal Fish Commission, FERC
Coordinator, OR
Columbia River Inter-Tribal Fish Commission, Jaime
Pinkham, OR
Columbia River Inter-Tribal Fish Commission, Lumley Paul,
Executive Director, OR
Columbia River Inter-Tribal Fish Commission, Patti Howard,
Water Quality Coordinator, OR
Colville Confederated Tribes, Michael Finley, WA
Confederated Tribes & Bands of Yakama Nation, Kate
Valdez, Cultural Resources, WA
Confederated Tribes & Bands of Yakama Nation, Philip
Rigdon, DNR Deputy Director, WA
Confederated Tribes of Grand Ronde, Brandy Humphreys,
OR
Confederated Tribes of Grand Ronde, Cheryle Kennedy,
Chair, OR
Confederated Tribes of Grand Ronde, David Lewis, Cultural
Resources Manager, OR
Confederated Tribes of Grand Ronde, Eirik Thorsgard,
Cultural Resources, OR
Confederated Tribes of Grand Ronde, Erik Thorsgard, Tribal
Historic Preservation Officer, OR
Confederated Tribes of Grand Ronde, Michael Karnosh, OR
Confederated Tribes of Grand Ronde, Reynold Leno, OR
Confederated Tribes of Grand Ronde, Schultz Khani, Cultural
Resources Specialist, OR
Confederated Tribes of Siletz, Robert Kennta, OR
Confederated Tribes of the Chehalis, Mark White, Natural
Resources, WA
Confederated Tribes of the Chehalis, Richard Bellon, Cultural
Resources, WA
Confederated Tribes of the Umatilla, Board of Trustees -
Chair, OR
Confederated Tribes of the Umatilla, Bruce Zimmerman, OR
Confederated Tribes of the Umatilla, Carey Miller, THPO,
Cultural Resources Protection Program, OR
Confederated Tribes of the Umatilla, Catherine Dickson,
Cultural Resources, OR
Confederated Tribes of the Umatilla, Les Minthorn, Chair, OR
Confederated Tribes of the Warm Springs Reserv, Sally Bird,
Cultural Resources Manager, OR
Confederated Tribes of the Warm Springs Reservation of
Oregon, Eugene Greene Jr., Chairman, OR
Cowlitz Indian Tribe, Bill Iyall, Chair, WA
Cowlitz Indian Tribe, Dave Burlingame, Cultural Resources,
WA

Cowlitz Indian Tribe, Ed Arthur, Assistant Director, WA
Cowlitz Indian Tribe, Mike Iyall, Natural Resources Director,
WA
Cowlitz Indian Tribe, Taylor Aalvik, Natural Resource
Director, WA
Hoh Tribe, Maria Lopez, WA
Jamestown S'Klallam Tribe, Ron Allen, WA
Kalispel Tribe, Glen Nenema, WA
Kikiallus Indian Tribe, Kurt Weinreich, Cultural Resources,
WA
Lower Elwha Klallam Tribe, Frances Charles, WA
Lummi Nation, Lena Tso, Cultural Resources, WA
Lummi Nation, Merle Jefferson, Natural Resources, WA
Lummi Nation, Timothy Ballew II, WA
Lummi Nation, Cliff Cultee, Chair, WA
Makah Tribe, Timothy Greene, Sr., WA
Muckleshoot Indian Tribe, Cultural/Preservation, WA
Muckleshoot Indian Tribe, Fisheries, WA
Muckleshoot Indian Tribe, Planning, WA
Muckleshoot Tribe, Karen Walter, Natural Resources, WA
Muckleshoot Tribe, Laura Murphy, Cultural Resources, WA
Muckleshoot Tribe, Virginia Cross, Chair, WA
Nez Perce Tribal Executive Committee, Brooklyn Baptiste,
Chairman, ID
Nez Perce Tribe, Ryan Sudbury, Office of Legal Council, ID
Nisqually Tribe, Cynthia Iyall, Chair, WA
Nisqually Tribe, David Troutt, Natural Resources, WA
Nisqually Tribe, Dorian Sanchez, Chair, WA
Nisqually Tribe, Fabio Apolito, Cultural Resources, WA
Nisqually Tribe, Joe Kalama, Cultural Resources, WA
Nisqually Tribe, Thor Hoyte, WA
Nooksack Tribe, Gary MacWilliams, Natural Resources, WA
Nooksack Tribe, George Swanaset Jr., Cultural Resources,
WA
Nooksack Tribe, Jeffrey Thomas, Natural Resources, WA
Nooksack Tribe, Kelly, Jr Robert, Chair, WA
Port Gamble S'Klallam Tribe, Jeromy Sullivan, WA
Puyallup Tribe, Bill Sullivan, Natural Resources, WA
Puyallup Tribe, Brandon Reynon, Cultural Resources, WA
Puyallup Tribe, Dillon, Sr. Herman, Chair, WA
Quileute Nation, Tony Foster, WA
Quinault Nation, Fawn Sharp, WA
Samish Nation, Christine Woodward, Natural Resources, WA
Samish Nation, Jacquelyn Ferry, Cultural Resources, WA
Samish Nation, Thomas Wooten, Chair, WA
Sauk-Suiattle Tribe, Michael Hoffman, Chair, WA
Sauk-Suiattle Tribe, Norma Joseph, WA
Sauk-Suiattle Tribe, Norma Joseph, Cultural Resources, WA
Sauk-Suiattle Tribe, Richard Wolten, Natural Resources, WA
Shoalwater Bay Tribe, Charlene Nelson, Chair, WA

Native American Groups (cont'd)

Shoalwater Bay Tribe, Earl Davis, Cultural Resources, WA
Shoalwater Bay Tribe, Gary Burns, Natural Resources, WA
Shoalwater Bay Tribe, Tony Johnson, Cultural Resources,
WA
Siletz Confederated Tribes, Delores Pigsley, Chair, OR
Skagit River System Cooperative, Stan Walsh, Environmental
Services Manager, WA
Skokomish Tribe, Charles "Guy" Miller, WA
Spokane Tribe, Rudy Peone, WA
Squaxin Island Tribe, Dave Lopeman, WA
Steilacoom Indian Tribe, Danny Marshall, Chair, WA
Stillaguamish Tribe, Jay Harvey, Cultural Resources, WA
Stillaguamish Tribe, Pat Stevenson, Natural Resources, WA
Stillaguamish Tribe, Shawn Yanity, Chair, WA
Suquamish Tribe, Dennis Lewarch, Cultural Resources, WA
Swinomish Indian Tribal Community, Larry Campbell, Tribal
Historic Preservation Officer, WA
Swinomish Tribe, Brian Cladoosby, WA
Tulalip Tribe, Melvin Sheldon, Jr., WA
Tulalip Tribe, Richard Young, Cultural Resources, WA
Upper Skagit Tribe, Jennifer Washington, WA
Upper Skagit Tribe, Scott Shuyler, Cultural Resources, WA
Yakama Nation, Harry Smiskin, Chair, WA
Yakama Nation, Jerry Meninick, Chair, WA

Intervenors

Allen Neuringer, OR
Astoria Fire & Rescue, Michael Jackson, Asst. Chief/Fire
Marshal, OR
Astoria Police Dept., Robert Deu Pree, Chief of Police, OR
Atmos Energy Corporation, Kevin Frank, TX
CC Meisel Co Inc., OR
Center for Biological Diversity, Sarah Uhlemann, Senior
Attorney, WA
City of Astoria, Brett Estes, City Manager, OR
City of Molalla, Mike Clark, City Manager, OR
City of St. Helens, John Walsh, City Administrator, OR
City of Warrenton, Kurt Fritsch, City Manager, OR
Clatsop County, Scott Derickson, County Manager, OR
Columbia County, Sarah Hanson, Columbia County, OR
Columbia River Inter-Tribal Fish Commission, Rob Lothrop,
Policy Development/Litigation Support Manager, OR
Columbia Riverkeeper, Daniel R. Serres, OR
Confederated Tribes of Grand Ronde, Senior Staff Attorney,
OR
D. Richard & Louise E. Fischer, OR
Daniel J & Matiele Law, WA
Davidson Family LLC, Jerry Mullen, OR
Flood & Water Watch, Julia DeGraw, OR
Joint Water Commission, OR

Jordan Ramis PC, Ronald Guerra, City Attorney for St.
Helens, OR
Laurie Caplan, OR
Lolita and Menton A. Carl LLC, OR
Lori Durheim, OR
Morris and Victoria Baxter, AZ
National Marine Fisheries Service, Dr. Jeff Fisher, Branch
Chief-Southwest Region, WA
National Marine Fisheries Service, Jane Hannuksela, WA
National Marine Fisheries Service, Mischa Connine, OR
Northwest Environmental Defense Center, Marla S. Nelson,
OR
Northwest Industrial Gas Users, Edward A. Finklea,
Exuecutive Director, OR
Northwest Natural Gas Co, OR
Old Standard Life Ins Co., WA
OR Dept. of Energy, Shanda Shribbs, OR
OR Dept. of Environmental Quality, Nina DeConcini,
Northwest Region Administrator, OR
OR Dept. of Fish & Wildlife, OR
OR Dept. of Land Conservation and Development, Patty
Snow, OR
OR Dept. of State Lands, Steve Purchase, OR
OR Parks & Recreation Dept., OR
OR Water Resources Dept., OR
Oregon Coast Alliance, Cameron La Follete, Land Use
Director, OR
Oregon Shores Conservation Coalition, Courtney Johnson,
OR
Pinnacle Long, LLC, Kell, Alternman, & Runstein, LLP,
Attorneys (Pinnacle), OR
Post & Schell, P.C., Douglas Canter, DC
Saddleback Neighborhood Road Maintenance Association,
Lee Geil, President, WA
Southwest Gas Corporation, Keith Layton, Associate General
Counsel, NV
Southwest Gas Corporation, Pamela Ruckel, Senior Analyst
Federal Regulatory Affairs, NV
Southwest Gas Corporation, Sam Brown, Manager/Federal
Regulatory Affairs, NV
Teresa Charboneau, WA
WA Dept. of Ecology Shorelands & Environmental
Assistance, Loree Randall, WA
WA Dept. of Fish and Wildlife, David Brock, Program
Manager, WA
WA Dept. of Natural Resources, Rochelle Knust, External
Affairs Program Lead, WA
WA Dept. of Natural Resources, Terence Pruit, Assistant
Attorney General, WA
Waterkeeper Alliance, Lesley Adams, Western Regional
Coordinator, OR
Willamette Riverkeeper, OR

Libraries

Astoria Public Library, OR
Auburn Library, WA
Black Diamond Library, WA
Centralia Timberland Library, WA
Covington Library, WA
Forest Grove City Library, OR
Ilwaco Timberland Library, WA
Issaquah Public Library, WA
Kalama Library, WA
Kelso Public Library, WA
McMinnville Public Library, OR
Monroe Library, WA
Sammamish Library, WA
Sedro-Woolley Public Library, WA
Snohomish Library, WA
South Hill Library, WA
Sumner Library, WA
Warrenton Community Library, OR
Winlock Public Library, WA
Woodburn Public Library, OR
Woodland Public Library, WA

Media

Bellingham Herald, Managing Editor, WA
Chinook Observer, WA
Chronicle, Managing Editor, WA
Forest Grove Times-News, Christian Gaston, OR
Issaquah Press, Kathleen Merrill, Managing Editor, WA
KMUN Radio, Joanne Rideout, OR
Longview Daily News, Managing Editor, WA
Longview Daily News, Eric Olson, Reporter, WA
News-Register, Steve Bagwell, OR
Nisqually Valley News, Kevin Graves, Editor and Publisher, WA
Puyallup Herald, Andrew Fickes, Reporter, WA
Puyallup Herald, Tyler Hemstreet, Managing Editor, WA
Skagit Valley Herald, Managing Editor, WA
Skagit Valley Herald, Gina Cole, Reporter, WA
The Chronicle, Kyle Spurr, WA
The Daily Astorian, OR
The Hillsboro Argus, Nick Christensen, OR
The Oregonian, OR
The Oregonian, Lori Tobias, OR
Vernonia's Voice Newspaper, Scott Laird, OR
Willamette Week, Nick Budnick, OR
Woodburn Independent, John Gervais, OR

Entities and Organizations

1000 Friends of OR, OR
2014-1 IH Borrower LP, TX

410 Associates LLC, Ronald Goodchild, WA
64th Street Apartments, LLC, WA
94Th Avenue LLC, WA
AFBM II LLC, OR
Alco, WA
Allito Properties LLC, WA
American Concrete Inc, Bob Beeson, WA
American Eagle Mtg Mexico #200 LLC, WA
American Equities Inc., Ross Miles, WA
American Gas Association, President, DC
American Savings Bank, NC
APA Development LLC, Kurt Brunner, WA
Appleton Development LLC, WA
Arch Wood Protection Inc, GA
Ariniello Properties, LLC, WA
Ashton D Group LLC, WA
Association of Washington Business, Kris Johnson, President, WA
Astoria Ford, Dane Gouge, OR
Astoria-Warrenton Area Chamber of Commerce, OR
Auburn Lions Club, WA
Auburn School Dist 408, Randy Thomas, Dir. Of O & M, WA
BAC Home Loans Servicing LP, CA
Bahr Tree Farm LLC, Steve Pedersen, WA
Bank of New York Mellon, UT
Bauder Family Limited Partnership, OR
BBC LLC, Brie Garland, WA
BCC Puyallup LLC, WA
Benham Property LLC, WA
Berean Baptist Church, WA
Blue Breeze, LLC, WA
BNSF Railway Company, TX
Bordeaux / Cameray HOA, WA
BR Valley Townhomes Sub Dst II Flanagan-Orion, Jennifer Spears, IL
Brandley Investments Inc, Jim Brandley, WA
BRC Family LLC, WA
Brewer's Sports Complex, LLC, Jeff Backmeier, WA
Brick House Wine Company, M. Mills, OR
Brookshire Estates HOA - Issaquah, WA
Brookshire Ridge HOA, WA
Buchan Homes LLC, WA
Building and Planning Dept., Carolyn Johnson, WA
Buy2Fix, LLC, Scott Emry, WA
Cameray HOA, WA
Canyon Road Property LLC, WA
Caporn Skies, LLC, WA
Car Wash Enterprises Inc., WA
Carpenter's Local 156, Kevin Weller, OR

Entities and Organizations (cont'd)

Casa Associates, Claire Petersen, KAMG Mgmt, WA
Cascade Natural Gas Corp, ND
Cascade Natural Gas Corp, WA
Cascade Water Alliance, WA
Cascade West Development Inc, WA
Castle Rock Fuel Stop Inc, Manjit Singh Chahil, WA
Cava Materials LLC, WA
CCJ Inc, OR
Cedar Springs at I LLC, WA
Celebration Center, WA
Cemetery Dist #1, WA
CH2MHill, Jay Lorenz, OR
CH2MHill, Mark Bricker, WA
Chilton, Inc., WA
Chrystal Farm, LLC, Lindley Morton, Manager, OR
Church of Jesus Christ LDS, UT
Clackamas County Farm Bureau, Jon Iverson, OR
Cleaning Services, Richard Lee, WA
Clover Creek Highlands LLC, Schilt M Seabrook, WA
Coastal Condo LLC, OR
Cohiba, Cripple Crk, French Crk Hunt Club LLC, Scott Gunning, WA
Coleman Ranch, OR
Columbia Bank, Jim Duncan, WA
Columbia Colstor Inc., WA
Columbia River Bar Pilot, Robert Johnson, OR
Columbia River Bar Pilots, Gary Lewin, OR
Columbia River Business Alliance, Don West, OR
Columbia River Estuary Study Taskforce, Jay Flint, OR
Columbia River Estuary Study Taskforce, Robert Warren, OR
Columbia River Maritime Museum, Jerry Ostermiller, OR
Columbia River Maritime Museum, Sam Johnson, Executive Director, OR
Columbia River Pilots Association, David Halmagyi, OR
Columbia Riverkeeper, Cheryl Johnson, OR
Columbia Riverkeeper, Debi Donnelly, OR
Columbia Riverkeeper, Ted Messing, OR
Consolidated Products Int Inc, OR
Cowlitz Community Foundation, William Iyall, Chairman, Cowlitz Indian Tribe, WA
Cowlitz Dairy, WA
Creator Lutheran Church At Lake Tapps, WA
Crest Builders, WA
Crystal Creek Holdings LLC, WA
Darzolf Holdings LLC, WA
Davidson Family LLC, OR
DD&V Company LLC, Dennis Derr, WA
DE & ME Enterprises LLC, WA
Deer Island Stock Ranch Trust, OR

Deutsche Bank Trust Co, TX
Dewitt Investments LLC, WA
Dieringer School Dist 343, WA
Doneen Inc, Anne Hanschu, OR
Dorel Properties LLC, Eric Pries, WA
Down To Earth Enterprises LLC, Starr Tavenner, WA
DRK, LLC, WA
Drlevich Const Inc, WA
Dubuque Crest HOA III, WA
Duenhoelter LLC, WA
Dyno Nobel Inc, UT
E & E Gradline LLC, Mark Ekman, WA
E/B Work LLC, WA
East Echo Lake LLC, WA
East West Real Estate Inv, WA
Eastridge Christian Assembly, Pete Blum, WA
Echo Lake Community Church, WA
Echo Lake Estates HOA, Brian Kovacevish, WA
Eight Is Enough LLC, WA
Endeavor Properties, LLC, WA
Englund LLC, OR
Estates Homeowners Assn, Morris Management, WA
exp Energy Services Inc., Mike Aubele, TX
Federal National Mortgage A, CA
Field Services, Inc., Leslie Benckendorf, OR
Fir Lane Valley LLC, WA
Fire District 44, Mike Barlow, WA
Fire Mtn Farms, Robert J Thode, WA
First Svgs Bk NW, WA
Forest Canyon Park LLC, WA
Forestree GM LLC, WA
Four Crowes, WA
Four Seasons Farms, Inc, Bernie James Stratton, WA
Fox Hill HOA, Eric Seislove, WA
Fraternity Snoqualmie Inc, WA
FREO Washington, LLC, AZ
Friends of Living OR Waters, Daniel Serres, OR
Fruithill, Inc, Lee Schrepel, OR
Fulbright & Jaworski, LLP, Lisa Toney, NY
General Steel Corp., CA
Glenbrooke Apartments, WA
Goodyear Nelson Lumber Co, Rod Remington, WA
Gradawn LLC, Paul N Best, WA
Grand Ridge Country Estates, Frederick Detore, II, WA
Grandma Jane's LLC, WA
Green Diamond Resource Co, David Backstrom, WA
Grigg Properties LLC, WA
Gusman & Magnuson Trust, WA
Gwin & Sons Logging Co., OR

Entities and Organizations (cont'd)

Hampton Lumber Mills Inc., OR
HDR, Patricia Terhaar, MN
Helgaland LLC, Tom Burke, WA
Herbrand Company, Dan Miller, WA
Hidden Glen MHC LLC, CA
Highland Ridge LLC, Kent Landerholm, WA
Highlands At South Hill LLC, WA
High-Level, LLC, WA
Hill Family LLC, Shelly Smith, WA
Holt Distressed Property Fund 2010, Scott Miller, WA
HRRUS LLC, OR
HSH Beauty, WA
Hubbard Seed & Supply Co., Gordon Jones, OR
IH4 Property Washington LP, AZ
Illahee Homeowners Assoc, WA
Ilwaco Fisherman, John Grocott, WA
Invitation Homes Property Management, WA
Issaquah Highlands Comm, Sarah Phillips, Executive Director, WA
Issaquah Montessori Property, WA
Issaquah Rotary Club, WA
Issaquah School Dist, Nancy Wilson, WA
Jacoby-Bigelow Trust, WA
Jansma Construction Inc., WA
Jeff Akins Inc, WA
Jenny Creek Properties, LLC, Craig Pfeifer, WA
John Hancock Mutual Life Ins. Co., WA
Jordan Ramis PC, E. Andrew Jordan, OR
Jorgensen Timber LLC, WA
JRS Lost Lake LLC, WA
KCT Investments, Robert E. Kimball, WA
Kinder Cemetery, OR
Klahanie HOA Association, WA
Knife River Corporation - Northwest, OR
Knutson Farms Inc, Roger, WA
L&D Race Tech, Don Hall, OR
Lake Tapps Community Church, WA
Lamon LLC, WA
LDS Church Real Estate, Scott Williams, UT
Lemay Investments LLC, WA
Level 3 Communications, Bruce A Kolancy, CO
Lincoln Trust Company FBO, WA
LJF Properties, WA
Llama Landing HOA, WA
Longview Pioneer Lions, Doug Harvey, WA
Lopez Farm LLC, WA
Lower Columbia Alliance for Sustainable Fishing, Bernie Bjork, OR

Lower Columbia River Estuary Partnership, Deborah Marriott, OR
LPORT 2 (WA) QRS 16-147 Inc., WA
Mallard Marsh LLC/Smartweed LLC, Richard Bus, WA
Manorwood North Division III Association, WA
Marine Mammal Commission, Michael Gosliner, MD
Max J Kuney Co, WA
Meridian Greens HOA, WA
Meridian Greens LLC, WA
Meridian Place LLC, OR
Meridian Square LLC, JSH Properties, WA
Milestone Homes Inc., WA
Molalla Community Planning Organization, Jim Gilbert (Chair), OR
Molalla Community Planning Organization, Susan Hansen, OR
Morris & Morris & McNeil, Marcia McNall, LA
Moskee Investment Company, OR
Mount Vernon Lions Club, WA
MP Properties LLC, WA
N Pacific Dist Of The Bible, WA
Nehls 2011 Trust, CA
Nelson Condominiums, WA
Nevil Financial Lmted. Partnership Etal, WA
North Coast Watershed Association, OR
Northwest Commercial Investments LLC, WA
Northwest D/D Inc., WA
Northwest Environmenal Defense Council, Corey Moffet, OR
Northwest Environmental Defense Center, OR
Northwest Gas Association, Dan Kirschner, Executive Director, OR
Northwest Industrial Gas Users, Paula Pyron, OR
Northwest OR Regional Partnership, Shirley Kalkhoven, OR
NW Real Properties LLC, WA
OLNG, Peter Hansen, WA
Olympia Timber Holdings, LLC, WA
Olympic Acupuncture, WA
Olympic Pipeline Co, James Prince, CA
Olympic Pipeline Co., IL
Oneill Storage LLC, WA
OR Fishermen's Cable Committee, Jeff Kroft, OR
OR Shores Conservation Coalition, Frank Fromherz, OR
OR Wild, Doug Heiken, OR
Orusic2 LLC, OR
Overlook Crest LLC, Rob Janicki, WA
P & C Land Co LLC, OR
Pacific Coast Seafoods Co, OR
Pacific Lifestyle Homes, Inc., WA
Pacific Natural Gas Co, C T Corporation System, WA
Pacific Park LLC, WA

Entities and Organizations (cont'd)

Pacifica Poplar Inc, John Fitzpatrick, BC
Palmer Creek Water District Improvement Company, Robert May, OR
Penny Lane Company LLC, WA
Pente Winlock LLC, Harry Hanna, OR
Pierce College Puyallup, WA
Pipe Line Contractors Assoc., TX
Port of Astoria, OR
Port of Astoria, Herb Florer, Deputy Director/Interim Executive Director, OR
Port of Ilwaco, Cindy Wigard, WA
Port of Kalama, Mark Wilson, Development Director, WA
Port of Tacoma, WA
Port of Woodland, Nelson Holmberg, Executive Director, WA
Port Warren Moorage Assoc., OR
Port Warren Sea Lion LLC, OR
Puget Sound Energy & Elec, WA
Puget Sound Energy & Gas, WA
R D Farms Inc., Steve Davidson, OR
Racca Rentals LLC, WA
Radars Marsh LLC, WA
RB40 LLC, Coy Anglin, WA
Redmond Lions Club, WA
Reeve Resources LLC, NV
Renaissance Ridge HOA, Don Corbett, WA
RESOLVE, Paul DeMorgan, OR
Ridge At Woodbrook HOA, VIS Group INS, WA
Ridgecrest Development III LLC, Ross Miles, OR
Ridgeview Estates Assoc, S. Roscoe, WA
River Grove Apartments LLC, WA
Riverwalk Condominium Association, WA
RJE Real Estate LLC, WA
Robin Hill LLC, WA
Rocky Mountain P/L Constr Assoc., J.D. Lormand, LA
Rotary Club of Sammamish, WA
Rotary Club of Snohomish, WA
Salmon for All, Inc, Oliver Waldman, OR
Samuel & Antoinette Lapore Trust, WA
Sandy Glen HOA, Lindsey Nagle, WA
Sarbanand Farms LLC, CA
Saxony-Pacific LLC, OR
Schmoe Forest Land LLC, WA
SE 111th St Water & Rd Association, David Shallow, WA
Sea Spray Prop., OR
Seaside Signal, John Yoakum, OR
Seppa Dairy Co, OR
Seurity State Bank, WA
Shaw Road Development LLC, Kurt Brunner, WA

Sierra Club - OR Chapter, Ted Gleichman, OR
Sister Keeper Homes LLC, WA
Skookumchuck Dam LLC, Tom Emrich, AB
Smartweed LLC, Robert E Manger, WA
Snohomish Lions Club, WA
Sound Development Corp., WA
South Hill Christian Center, Dennis Cummins, WA
South Valley Estates, WA
Stag Hallow Wines, LLC, Jill Zarnowitz, OR
Star Feets, LLC, WA
Steadfast LLC, OR
Steve Burnstead Construction L, Leo, WA
Summa Real Estate Group, Diane Jette, Principal Broker, OR
Summit Bank, WA
Sunset Empire Transportation District, OR
Suzuki & Used Cars, Vincent Williams, OR
Tacoma Pierce Co YMCA, WA
Tafa Properties LLC, WA
Tanca Ioan, WA
Tapps 3205 LLC, WA
Teevin Brothers Land & Timber co., Shawn Teevin, OR
Teitzel Selchert LLC, WA
The Boeing Company, M/C 20-00, WA
The Brookshire East HOA, WA
The Crest on the Plateau, HOA, WA
The Longview Rotary Club, Allan Erickson, President, WA
The Wilderness Society, Resource Economist, CO
THR Washington II LP, AZ
Three Ps Development LLC, OR
Timberland Bank, WA
Timberland Homes Assoc., Inc., WA
Toutle River View HOA, WA
Trailwood Farms, WA
Transalta Centralia Mining LLC, Tim LeDuc, WA
Tree Farm Association of lot Owners, WA
Trestine LLC, Lorie Spogen, WA
Tualatin River Watershed Council, April Olbrich, OR
Twin Gables LLC, WA
Union Pacific Railroad Co., Renay Robison, NE
US Partner Co Ltd, WA
Verizon Northwest, Inc, TX
Village At Rivergrove HOA, Robin Shea, WA
WA Assn Mgt Svcs LLC, WA
WA Development Co Inc, MT
Warrenton Lumber Mill, Dale C. Williams, Unit Manager, OR
Washington Water Power Co - EI, Nick Floros, WA
Wasser & Winters, WA
Water Rights Services Division, Jerry K. Sauter, Water Rights Program Analyst, OR

Entities and Organizations (cont'd)

Waterlands LLC, WA
Wellman Woodland LLC, OR
Wells Fargo Bank Minnesota Na, UT
Wells Fargo Bank NA, SC
Wesley Homes, Kevin Anderson, WA
Westside Community Bank, Peter Lofgren, WA
Wetland & Waterways Conservation, Michael McCabe,
Senior Resource Coordinator, OR
Weyerhaeuser Columbia Timberlands LLC, WA
Weyerhaeuser Columbia Timberlands LLC, Chris Lipton, WA
Weyerhaeuser Columbia Timberlands, LLC, Wesley
Schlenker, WA
Weyerhaeuser Company, Dale Williams, Unit Manager
Warrenton Lumber Mill, OR
Weyerhaeuser Company, Tax Dept. CH1C28, WA
Weyerhaeuser NR Company/Lewis & Clark Oregon Buyer
LLC, OR
WGW Inc, John Ottis, WA
Whatcom Land Trust, Eric Carobba, WA
Wilderness, WA
Williams Northwest Pipeline GP, Pam Barnes, UT
Williams Communications, Pete Johnson, CO
Williams Pipeline, Albert Michini, UT
Williams Pipeline, George Angerbauer, UT
Williams Puyallup Office, Rex Johnson, Land Supervisor, WA
Williams, Dallas Scholes, Sr. State Gov't. Affairs Rep., UT
Williams, Emily Kushlan, UT
Williams, Matt Kautzman, WA
Windsor Park Estates Puyallup LLC, WA
Winkelman Farm LLC, WA
Woodland America LLC, WA
Yamhill County Farm Bureau, Zach Christensen, OR
Yamhill District Improvement Company No. 1, Ron Schindler,
OR
Yinkay Heritage Inc, Philip L Thom, WA
Yoder Sparling LLC, WA
Zimlar Tree Farms, Leah Larson-Saroni, CA
Zimlar Tree Farms, Lynden Larson-Magnoli, CT

Individuals

Aaron & Rachel Lamb, WA
Aaron C & Victoria A Watt, WA
Aaron Colvin, WA
Aaron D & Melody A Molen, WA
Aaron J & Kimberly A Blindheim, WA
Aaron N & Leah M Dunsdon, WA
Aaron Puckett, WA
Abbie Sullivan & Christopher Taylor, WA
Abbilene Overton, WA
Abigail Ziltener, WA

Abraham M S & Shin Quon Goo, WA
Adam & Autumn Link, WA
Adam & Kiekenapp, Katie Schukantz, WA
Adam & Lori Hoffman, WA
Adam Hillard, WA
Adam J & Erin J Bluett, WA
Adam Levine, WA
Adolph H & Linda L Krantz, WA
Adrian P & Kirsten A B Happel, WA
Adrian Santangelo, WA
Ahna Lich, OR
Ahren & Shannon Minsch, WA
Aileen Taylor, WA
Alan D & Ethyl L Schumacher, WA
Alan H Homestead, WA
Alan K. & Joyce Asher Nicholson, WA
Alan Lee Buswell, WA
Alan Makayev, WA
Alana Dittrich, WA
Albert E & Patricia A Szymusiak, WA
Aleksandr & Ludmila Bugaychuk, WA
Aleksey A & Yelena V Petrov, WA
Alex & Cassandra Buchanan, WA
Alex & Daryna Bozhko, WA
Alex & Lotti Finke, OR
Alexander Baldwin & Inkyung J. Lee, WA
Alice Dewell, WA
Alice F Furgeson, CA
Alice Smith, OR
Allan & Diane Mount, WA
Allan R Guenther, WA
Allan W & Karen Oudean, WA
Allen & Kim Ward, WA
Allen A Turner, WA
Allen E Berg, WA
Allen K & Terry L Loftis, WA
Allen L & Mary A Chick, WA
Allen Muramoto, WA
Allen S & Bobby J McElhaney, WA
Allison Ciancibelli, WA
Alvin & Agnes Jensen, WA
Amber Allison, WA
Amber Clayton, WA
Amelia D. Acosta, WA
Amityikram & Dora Rajkhowa, WA
Ammon Jay & Nicole M Harris, WA
Amos R Ipock, WA
Amy D Larson, WA
Amy K Hausrath, WA

Individuals (cont'd)

Amy Smith, WA
Amy Wicklund, WA
Andrea & Ryan M. Sangrey, WA
Andres Rosas, WA
Andrew & Ann Mackenzie, WA
Andrew & Diana Druschba, WA
Andrew C & Frida R P Richwine, WA
Andrew Cier, OR
Andrew Douvier, WA
Andrew Drummond, OR
Andrew E & Chona Z Kubiak, WA
Andrew E & Janice Harlin, WA
Andrew E Haynie, WA
Andrew J & Linda D Poplawski, WA
Andrew K & Lacey J Heinz, WA
Andrew L & Deborah L O'Brien, WA
Andrew M Soethe, WA
Andrew Nygaard, OR
Andrew Rosenberger, OR
Andrew Ulven, OR
Angela & Mustafa Ameen, VA
Angela M Broome, WA
Angus Carmichael, WA
Anita Tavernier, WA
Ann K Slonecker, WA
Ann M. Hutchinson, WA
Ann Marie Willson, WA
Ann Pappas, WA
Ann Ukockis, OR
Anna Folejewski, WA
Anna L Simsich, WA
Anna M. Fleming & John Sweet, WA
Anna Parsons, WA
Anna Rogers, WA
Anne E & Gabriel W Spencer, WA
Anne Horner, OR
Anne Marie Shultz, WA
Annie Oliver, OR
Ann-Marie Becker, WA
Anthony & Adina Zerwig, WA
Anthony & Hui-Pun, Ching Pun, WA
Anthony & Pamela Diana, WA
Anthony & Park, Christie Chrestler, WA
Anthony Harbison, WA
Anthony Lee Rask, OR
Anthony M & Diane C Mayta, AZ
Anthony Ray, WA
Antonio E., Jr & Miriam Ramirez, WA

Antoune Family Trust, WA
April S Collett, WA
Arbutus Grendahl, WA
Arjun Mitra, WA
Arlene M & Patrick F Gallagher, WA
Arnold & Barbara Odegaard, WA
Arnold D Horath, WA
Arnold Gomez, WA
Arnold Haberstroh, WA
Arnold Olson, WA
Aron Lee & Barbara M Larsen, WA
Art & Wilma Yenter, WA
Art Pearl, OR
Artem & Yelena Palich, WA
Arthur B Sandford, WA
Arthur Bein, MN
Arthur E & Nancy J Francis, WA
Arthur H Schwerzel, WA
Arthur L Bobb, WA
Arthur W Erickson, OR
Ashely Burns & John M. Eisenbacher, WA
Ashley & Nina Henderson, WA
Ashley G Skeen, WA
Ashok Bavanla, TX
Ashok K Singh, WA
Aunnit White & David A. King, WA
Aurelia Sanders, WA
Austin Guss, WA
Auston H Mathis, WA
B Bernard, OR
B Warren & Melissa G Myers, WA
Barbara Cervantes-Gautsch, OR
Barbara J Justice, WA
Barbara J Mckay, WA
Barbara J Roberts, WA
Barbara Jackson, WA
Barbara Kalinoski, WA
Barbara L Wollman, WA
Barbara Morton, WA
Barbara Perelra, OR
Barbara Roller, WA
Barbara Wright, WA
Barbara, H Herbold, OR
Barney & Rhonda Melnick, WA
Barrie M & Starr L MacDonald, WA
Barry & Susanna Foster, WA
Barry Hinkson, OR
Barry Ulman, WA
Beatrice Jankins, WA

Individuals (cont'd)

Beatrice Kister, WA
Becky Beasley, WA
Becky Moody, WA
Behzad & Lindsay D Pakzad, WA
Ben R & Tammy S Wilcox, WA
Ben W Twight, WA
Benjamin & Kathryn Stuart, WA
Benjamin & Monica Meyette, WA
Benjamin J. & An Culver, WA
Benjamin L Norwood, WA
Benjamin T Humphreys, WA
Benjamin Warren & Lys Mercier, WA
Berkley R Keith, WA
Bernadette Butterworth, WA
Bernard E. & Michael H. Dykshoorn, BC
Bernard R Brunson, WA
Bernard Vogt, WA
Bernice Meyer, WA
Bernie West, WA
Bertha Koplitz, WA
Beth Call, WA
Betha Gutsche, WA
Bethany Lynn, WA
Bette Pierson, WA
Bettina Bradley, WA
Beverly Collins, OR
Beverly Ann Crocker, WA
Beverly Berkholtz, OR
Beverly Huu, WA
Beverly Smith, WA
Bill Booth, OR
Bill Dickas, OR
Bill Hanson, OR
Bill Sauber, OR
Bill T Wold, WA
Bill W & Janet M Barnes, WA
Billie & James Garber, WA
Billie J. Swalla, WA
Billie Schmidt, WA
Billy D. & Brenda J. Click, WA
Billy G Johnson, OR
Billy Gene Johnson, OR
Binda Douglas, WA
Blair S & Beth C Tuck, WA
Bo & Kellie Manary, WA
Bob D & Michele Eaves, WA
Bob Finnigan, OR
Bob Goldberg, OR

Bobby C Krigbaum, WA
Bobby J & Kristine K Nichols, WA
Bogdan & Brygida Bednarek, WA
Bohnda O'Donnell, WA
Bonnie Mager, WA
Brad Deaver, WA
Brad J & Wright, Deletha Little, WA
Brad M & Carol L Weber, WA
Brad McBride, WA
Brad S & Carolyn I Barber, WA
Bradford & Bridget Cochrane, WA
Bradford Kropp, WA
Bradley Buchanan, WA
Bradley Cowan, OR
Bradley D Baker, WA
Bradley Heil, OR
Bradly R & Parsons Temple Zlotoff, WA
Brady C & Linda L Jacobs, WA
Brady L & Christie I Stevens, WA
Brady Preheim, OR
Brandee L Warren, WA
Brandon & Leah Richner, WA
Brandon & Shaffer, Sunny Smith, WA
Brandon A Clayton, WA
Brean Hobbs & Corey Smith, WA
Brenda Gazabat, WA
Brenda MacRoberts, OR
Brenda Recor, WA
Brendan S & Heather Brosnan, WA
Brent B & Cindy B Gow, WA
Brent K & Kari B Hoke, WA
Brett & Bethany Wise, WA
Brian & Cara Wright, WA
Brian & Erin Lorence, WA
Brian & Joanie Ganske, WA
Brian & Mary Jane Purvis, WA
Brian & Shannon Griffith, WA
Brian A & Cindy E Welk, WA
Brian C & Susan Barrett, WA
Brian Craig Freeland, OR
Brian D & Andrea L Garvey, WA
Brian G & Rebecca L Leonard, WA
Brian K Carter, WA
Brian K. & Deborah M. Miedema, WA
Brian L Kenkman, WA
Brian L. & Susannah L. Conrad, WA
Brian M McGuinness, WA
Brian Osche, WA
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Individuals (cont'd)

Brian S & Suzanne J Lange, WA
Brian S. & Kristin M. Isakson, WA
Brian Wilson, WA
Brock M Lenhart, WA
Bruce & Joni McKenzie, WA
Bruce & Shannan M Becker, WA
Bruce & Valerie Thompson, WA
Bruce A Kincy, WA
Bruce C & Melissa J Groenewegen, WA
Bruce E & Kristen Nichols, WA
Bruce G Blackstone, WA
Bruce Stock, OR
Bryan & Linda Stowe, WA
Bryan & Rebecca Biggs, WA
Bryan Gilbert, OR
Bryan M & Monica L Besteman, WA
Bryan R Plog, WA
Bryan Rowlands, WA
Bryan W. Sample & Jennifer L. Gorton, WA
Bryce Eckhart, WA
Bryn E & Marie J Volkman, NC
Bryon K & Connie A Fauchald, WA
Buford E & Judith O Welsh, WA
Burl & Kang Yang Sullivan, WA
Byung Jin Yang, WA
C Murray Twelves, WA
Calvin J & Elissa D Bruno, WA
Calvin Patterson, WA
Calvin R & Marilyn M Dickerson, WA
Cameron & Amy L Birk, WA
Cameron Brister, OR
Candace M France, WA
Candis L Taylor, WA
Cara Story, WA
Cardyn Vena, OR
Careen Stoll, WA
Carey Mcquesten, OR
Carl & Lynnette Law, WA
Carl A. & Betty Lou Romtvedt & Curtis & Rosemary Goche,
WA
Carl Burns, WA
Carl Dominey, OR
Carl Harold Carlson, CA
Carl Kisaberth, OR
Carl L & Juanita M Carlson, WA
Carl L Roth, WA
Carl Ronzheimer, OR
Carla C & Michael D Reynolds, WA
Carla Kelley, WA
Carlos A & Oku, Ayumi Melendez, WA
Carlos Martinez, OR
Carmen E Preciado, WA
Carmen J & Olvera Sara Olvera, WA
Carmen Rawlings, WA
Carol Crawford, WA
Carol Davis, OR
Carol Graham, WA
Carol Hewitt, WA
Carol J. Borggaard, WA
Carol L Markewitz, OR
Carol Mcnair, OR
Carol Newman, OR
Carol Pellett, WA
Carol Terry, OR
Carole Bernhardt, WA
Carole Hildebrandt, OR
Carole J.C. Campbell, WA
Caroline Kimler, OR
Carolyn Eady, OR
Carolyn H Clapp, OR
Carolyn Lindau-Gill, WA
Carolyn M Verner, OR
Carolyn M. Geertsma & Robert A. Geertsma, WA
Catherine Matthias, OR
Catherine McKenzie, WA
Catherine Siskron, OR
Catherine Walters & Charles K. Jones, WA
Cathy Hendrickson, WA
Cathy Lindsay, WA
Cathy Tombow, WA
Cem H & Laura J Ullman-Onener, WA
Chad Rankin, WA
Chaeil & Kyong Bok Pak, WA
Chan, WA
Chanthou & Sounn Tepsovanmony Lach, WA
Charlene A Doran, WA
Charles & Colleen Beauregard, WA
Charles & Darcy Ross, WA
Charles & Gretchen Grant, WA
Charles A & Aura L Schreiner, WA
Charles A & Chriseth L Hass, WA
Charles A Petschke, WA
Charles B Kimmel, OR
Charles B., Jr & Donna L Pearman, WA
Charles C & Janet K Duncan, WA
Charles D & Julianne McEwen, WA
Charles D Carman, WA

Individuals (cont'd)

Charles Dralle, WA
Charles E & Erin M Eaton, WA
Charles E & Martha C Schaffer, WA
Charles F., Jr Osborn, WA
Charles Garner, WA
Charles Hughes, WA
Charles J Clark, WA
Charles J., Jr & Linda G Sandor, WA
Charles L Dean, WA
Charles L Royse, WA
Charles M Patton, OR
Charles N Wilson, WA
Charles R & Kelley Smith, WA
Charles R. Jones, WA
Charles S Washer, WA
Charles Schweigert, OR
Charles Straughan, OR
Charles V Helming, WA
Charlotte Buck, WA
Charlotte Winslett, OR
Chen Suh Chyn & Larry L. Broad, WA
Cheng-Taou & Lin, Chia-Ling Chou, WA
Cheol-Min & Lee, Hyn Young Park, WA
Cheree' Turner, WA
Cheri Howe, WA
Cheryl J. McDowell, OR
Cheryl S Hannon, WA
Chester E Wells, WA
Chester R & Tana L Britton, WA
Chloe Davenport, WA
Chol Soon Shin, WA
Chris & Autumn Bock, WA
Chris & Jensen, Georgi Shoemaker, WA
Chris & Julie Mardis, WA
Chris & Katie Edwards, WA
Chris Bridgens, OR
Chris C. Ness, WA
Christi Packard, WA
Christian Bernard & Cary Wade, WA
Christian M Johnson, WA
Christina & David L. Heim, WA
Christina Alexander, OR
Christine A. Straight, OR
Christine Henkel, WA
Christine L Mahaffey, WA
Christine Landry, WA
Christine M & Melvin R Greiser, WA
Christine M & Melvin R. Greiser, WA

Christine North, OR
Christine Su, WA
Christine Underwood, WA
Christine Whitehall, WA
Christofer Joe Beacock, WA
Christopher & Ann E Wenrick, WA
Christopher & Lisa Kirby, WA
Christopher & Melinda Brown, VA
Christopher & Susan Bruder, WA
Christopher A Johnson, WA
Christopher and David Koh, CO Trustees, WA
Christopher D Dideon, WA
Christopher D Prochazka, WA
Christopher Farrar, OR
Christopher J & Wendy H Hagle, WA
Christopher L Rask, OR
Christopher Lamb, OR
Christopher P & Rebecca H Pierce, WA
Christopher P Tuohy, WA
Christopher S & Bobbie J Roth, WA
Christy Ann Peschl, OR
Cindy Carder, OR
Cindy Daly, OR
Cindy L Littlejohn, WA
Cindy Price, OR
CJ Abbott, OR
Claire A & Joshua W Douglas, WA
Claire Keeble, WA
Clarence L. Westhoff, WA
Clarica Parsons, WA
Clark C., Sr. & Barbara S. Gould, WA
Clark C., Sr. Gould, WA
Claudia DeLoff, OR
Clay A & Claire R Keith, WA
Clay S & Patricia L Benner, WA
Clinton & Rachelle Nowels, WA
Clinton A & Stefanie J Kilborn, WA
Clinton Abbott, WA
Clivonne Corbett, OR
Clyde A & Sally Shetler, WA
Clyde J & Patricia A Hall, WA
Cody & Heather A Leckner, WA
Colin Donnelly, WA
Colin Donoghue, OR
Colin Elder, WA
Colin Riley, WA
Colleen Burnett, WA
Colleen Porter, WA
Connie Paulsen, OR

Individuals (cont'd)

Connie R Beyers, WA
Connie Y & Oppenheimer Nakano, WA
Connor N. Smith, WA
Cordell N Stone, WA
Cornelius-Eileen K Vreugdenhil, WA
Craig A & Catherine C Hawkins, WA
Craig A Seader, WA
Cruz Elpidio, OR
Curtis & Carolyn Lacy, WA
Curtis Clifford, WA
Curtis L & Joyce Robinson, WA
Curtis L & Laura D Counley, WA
Curtis R & Debra L Baxstrom, WA
Curtis Vanselus, WA
Cynthia Kaul, WA
Cynthia Robinson, WA
D Adair Drynan, OR
D. Anderson, WA
D. E. & T. R. Otterstrom, WA
D. Mcclelland, OR
D. Salochana & Lalesh Chand, WA
Da Ouk, WA
Daisy E Cissna, WA
Dale & Darline Pruett, WA
Dale A Clarke, OR
Dale Albert & Shari K Roth, WA
Dale Allen Guidi, OR
Dale Barrett, OR
Dale Boon, WA
Dale D Klein, WA
Dale E & Myra A Clark, WA
Dale E Holtzworth, WA
Dale E. & Amy K. Boultinghouse, WA
Dale F Slanger, WA
Dale L & Cheril A Erickson, WA
Dallas J., Jr Dyer, WA
Dan & Alicia L Wislocker, WA
Dan & Ranum, Jennifer Murray, WA
Dan Berentson, WA
Dan Coyne, WA
Dan Cronenwett, WA
Dan K & Cathy J Loholt, WA
Dan L & Eunice Defreecce, WA
Dan Lyon, MT
Dan Miller, WA
Dan Serres, OR
Dan W & Gracie Jansen, WA
Dan William Heiner, OR

Dan Williams, WA
Dana L Mattson, WA
Dana M. Klatt, WA
Dana W Holton, WA
Dana Zia, OR
Danay S & Teresa R McIntryre, WA
Dane & Anne Egenes, WA
Danial Kennedy, WA
Danieil Green, OR
Daniel & Amy Duefrane, WA
Daniel & Arliss Benz, WA
Daniel & Christin Raymond, WA
Daniel & Davis, Kristin Ferguson, WA
Daniel & Elizabeth Detloff, WA
Daniel & Elizabeth Hanlon, WA
Daniel & Ellen Cain, WA
Daniel & Jo Eva Parker, WA
Daniel & Ligia Iorga, WA
Daniel & Mary Ann Hogue, WA
Daniel A & Silvia L Peterson, WA
Daniel Anthony Giluck, WA
Daniel Armstrong, OR
Daniel B Breen, WA
Daniel B Rosenthal, WA
Daniel Bergeron, OR
Daniel D & Jenni Sillito, WA
Daniel Dinh, WA
Daniel E & Alisa D Lahaie, WA
Daniel E & Bonnie R Ritola, WA
Daniel F & Lori J Cockerham, WA
Daniel G Sanders, WA
Daniel Green, OR
Daniel J & Ashley A Kristofzski, WA
Daniel J & Cynthia R Winston, WA
Daniel J & Karen M Hauser, WA
Daniel J & Melissa A Rogers, WA
Daniel J & Valerie Bryant, WA
Daniel J. & Nathan B. Spencer, WA
Daniel L & Sherrie L Baily, WA
Daniel L & Sylvia M Hertlein, WA
Daniel L Diiullo, WA
Daniel M & Rebecca L McManus, WA
Daniel Maguire, WA
Daniel Ogren, OR
Daniel P & Katrina M Scott, WA
Daniel Q & Carolina C Rouse, WA
Daniel R & Barbara M Presseisen, WA
Daniel R. Serres, OR
Daniel Rouslin, OR

Individuals (cont'd)

Daniel V Vasquez, WA
Daniel Weishaar, WA
Danny L & Shirley R Price, WA
Dante Jesus & Liezl Arranza, WA
Darcey B & Regina Teets, WA
Darcie Babcock, OR
Darcie C & Rafael Lessante, WA
Darcy Walker, WA
Daren S & Lesley Rogers, WA
Darlene Turner, WA
Darlene V Bellman, WA
Darrel Claymore, WA
Darren & Danielle Sterling, WA
Darren Godbey, WA
Darron L Whitehead, WA
Daryl E & Tracy A Tanner, WA
Daryl W. & De Etta Connite, WA
David & Audrey Antkowiak, WA
David & Catherin Anderson, WA
David & Chong S Cutarelli, WA
David & Cindy Rudisill, WA
David & Cydney Lewis Nixon, WA
David & Darlene Thompson, WA
David & Linda Dorough, WA
David & Lynn Thornton, WA
David & Megan Edwards, WA
David & Perish, Anthony McDowell, WA
David & Sandra Egge, WA
David & Terrie Espinoza, WA
David & Terry Taylor, WA
David & Victoria Levinson, WA
David & Wendy Knoeppel, WA
David (Trustee) McKeel, OR
David A & Susan M Smith, WA
David A Belden, OR
David A Pierot, WA
David A. Thompson Sr., OR
David Ambrose, OR
David B & Tricia A Bagley, WA
David Black, WA
David C & Mutita P Honsberger, WA
David Carter, WA
David Cruickshank, OR
David D & Ajia A Davies, WA
David D & Joan D Dawson, WA
David D Borden, WA
David Danielson, OR
David Drury, OR

David E & Hanna Dalia Sabath, WA
David E. & Carey L. Allison, WA
David Eugene Power, WA
David G & Kathy A Elkins, WA
David G & Kay J Chevalier, WA
David G & Shirley R Krause, OR
David Gill, WA
David Glass, OR
David Goldman, OR
David H & Irma E Gross, WA
David Hall Stewart, WA
David J & Heather A Vitzthum, WA
David J Fraser, WA
David J. & Michelle R. & Christine L. Prestin, WA
David Jones, OR
David Jones, OR
David K & Toni L Smith, WA
David L & Jean M Rule, WA
David L & Kathryn J Morgan, WA
David L Webb, OR
David L Wells, WA
David L. & Leslie Hughes, WA
David M McLaughlin, WA
David McMahan, WA
David N & Jennifer Allen, WA
David N & Sherry L Heiserman, WA
David P & Phuong T Hebert, WA
David Paul & Amy Elizabeth Tallbut, WA
David Plate, OR
David R & Cheryl S Wheeler, WA
David R & Jean H Seeley, WA
David R & Tammy L McCabe, WA
David R & Tresa Nelson, WA
David R Eatwell, WA
David R Swords, WA
David S & Deborah S Masters, WA
David S. & C. Carpenter; & Darryl & D. Brown, WA
David Schmitz, WA
David T & Valerie L Patterson, WA
David T Walworth, WA
David T. & Barbara E. Moore, WA
David W & Harris-Riley, Sarah L Riley, WA
David W & Judith A Foskette, WA
David W & Kendra Richard, WA
David W Raines, WA
David Yager, OR
David Zanghi, WA
Dawn Clark, OR
Dawn Zuger, WA

Individuals (cont'd)

Dean & Betty Gross, WA
Dean & Jodie Anderson, WA
Dean A Kaufman, WA
Dean Allen Owens, OR
Dean D Lee, WA
Dean Flaig, WA
Dean Johnson, WA
Dean N Sorensen, WA
Dean Phelps, OR
Dean Su, WA
Deane R & Rachel E Wood, WA
Deann Ketchum, WA
Deanna Devereaux, WA
Deanna L Hungerland, WA
Debra K. Edwards & James C. Pointere, WA
Deborah Cain, WA
Deborah M Marvil, WA
Deborah McBeath, WA
Debra A Bachmeier, WA
Debra Hines, OR
Debra L. Joh & Charlie, Jr West, WA
Delbert & Colleen Ferree, WA
Delene M Brayer, WA
Dell Goldsmith, OR
Della Johnson, WA
Della M. Walker, WA
Delores S Lumberg, WA
Deloris F Jones, WA
Delta Ockert, OR
Dena Frances Baker-Davis, WA
Dena Paffenroth, WA
Denis Douglas Meunier, OR
Denise Cornwell, WA
Dennis & Adam Biwit, WA
Dennis & Amy Gronholdt, WA
Dennis & Shirley & Michael Roberts, WA
Dennis Callegari, OR
Dennis D & Judy A Walter, WA
Dennis D & Maureen L Fehrenbach, WA
Dennis E Holzer, WA
Dennis F Koher, WA
Dennis G Smith, WA
Dennis Hanes, OR
Dennis Heller, WA
Dennis Higgins, OR
Dennis J Mazelin, WA
Dennis L & Karen J Karnes, WA
Dennis M., Sr Dodge, WA
Dennis P. & Kathle Bibko, WA
Dennis R & Evelyn J Erceg, WA
Dennis W. Sennert, WA
Dennis Warren, OR
Denyse Lockard, WA
Derek & Bozlee, Breann Spence, WA
Derek & Kristin Rand, WA
Derick & Ames, Linda Allen, WA
Devender Daniel & Debra Van, WA
DeWayne & Dannella Jensen, WA
Diana Boom, OR
Diana Keller, OR
Diana L & Bryce R Reynolds, WA
Diana L & Mark A Haley, WA
Diana M Loback, WA
Diana McCarty, WA
Diana S Bright, OR
Diane Amarotico, OR
Diane Dick, WA
Diane E Gould, WA
Diane Greenberg, WA
Diane Heath, OR
Diane Stearns, OR
Diane Zink, OR
Dianna P Spence, OR
Dianne Frothingham, WA
Dianne McChesney-Davis & Thomas Davis, WA
Dick & Leona McArthur, WA
Diedre M Clarke, WA
Diljit & Dang Sethi & Kanwaldeep, WA
Dion Kiene-Wheeler, WA
Dirk E & Kristen Volcke, WA
Dmitriy & Iryna Aleksandruk, WA
Dodie Needham, WA
Doe M. & Scott H. Hartz, WA
Dolores L. Sannicolas & Chris D. Comstock, WA
Dolores Zella E Nugent Nugent, WA
Domonick Sanchez, OR
Don & Charlotte Larison, WA
Don Carson, OR
Don E Sims, WA
Don Hennig, OR
Don Mills, OR
Dona D Palmer, WA
Donald & Betty Ansel, WA
Donald A. & Nancy J. Sundvick, WA
Donald E & Kathleen K Mundy, WA
Donald E & Kathy J Fourre, WA
Donald E & Marian L Ely, WA

Individuals (cont'd)

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Donald Falleur, OR
Donald G & Jacqueline J West, WA
Donald G Winter, WA
Donald H & Emma J Hemminger Rev Living Trust, Donald H.
& Emma J. Hemminger, WA
Donald J & G Nadeane Jensen, WA
Donald J & Minnie E Trentman, WA
Donald Johnson, OR
Donald L Berg, WA
Donald L Pugh, WA
Donald M Sykes, WA
Donald Mangini, WA
Donald McDaniel, WA
Donald Morden, OR
Donald R & Jane M Carbaugh, WA
Donald R & Kathryn A Rushton, WA
Donald R & Kathy R Dibblee, WA
Donald R Kennedy, WA
Donald R Staley, WA
Donald R Swanson, WA
Donald R Wallace, WA
Donald S. Lieurance, WA
Donald T Sanders, WA
Donald V. Bergerson, OR
Donna & Ricardo Casanova, WA
Donna Baker, WA
Donna Loomans, WA
Donna Osborne, OR
Donnie Lee & Sheryl Ann Herring, WA
Donnie R. & Rudine V. Mayfield, WA
Doris Corrado, OR
Dorothy A Harju, NV
Dorothy Carpenter, WA
Dorothy I Park, WA
Dorothy L & Daniel I Buell, WA
Dorothy Leu, WA
Dorothy R. Mooney, OR
Doug Huigen, WA
Doug Lofting, OR
Doug N & Nicole M Kiger, WA
Douglas & Shaune Godfrey, WA
Douglas A Meyer, WA
Douglas D Burns, WA
Douglas Faron, WA
Douglas J Almond, WA
Douglas J Perry, WA
Douglas J Weber, WA

Douglas Morrison, WA
Douglas P & Joy E Miller, WA
Douglas R Crim, WA
Douglas S Roth, WA
Douglas Speers, OR
Douglas Werner, WA
Douwe & Leona Van Ess, WA
Doyle & Arlene Johnson, WA
Drew & Ashlee Evans, WA
Drew Herzig, OR
Duaine A. Hiler Etux, WA
Duane & Connie Bryant, WA
Duane & Jeanette Tevelde, WA
Duane Clausen, OR
Duane Clausen, OR
Duane E & Diane C Hahn, WA
Duane T. & Vivian T. Cordray, WA
Duc Do, WA
Dustin Y & Alison Greer, WA
Dysa Kafoury, WA
Eahou R & Nicole D Davis, WA
Earl & Carmen Henderson, WA
Earl C Lauth, WA
Earl Lee Hyatt, WA
Earl Powers, OR
Earl Wright, OR
Earlene Rothauge, WA
Ed Frodel, WA
Ed J & Kelly A Depaoli, WA
Eddie Fusaro, WA
Eddie J Leach, WA
Edith A & Judi A Lovelace, WA
Edith S. Orner, OR
Edmund W., Jr Roller, WA
Edward & Jacqueline Peterson, WA
Edward & Pamela Klopfer, WA
Edward & Penny Zenker, WA
Edward & Terry Holtgraves, WA
Edward A & Carol B Dayoob, WA
Edward A & Christina G Martinez, WA
Edward A & Helen K Solem, WA
Edward A & Susan Klatkiewicz, WA
Edward A Fletcher, WA
Edward A Tilzer, WA
Edward Archie Dass, OR
Edward B Angus, OR
Edward D. & Tamera Malakoff Barrows, WA
Edward Durham, OR
Edward E & Molly E Evans, WA

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Edward J & Helen G Schlotfeldt, WA
Edward L & Bethel K Johnson, WA
Edward M & Krista M Olson, WA
Edward Panowicz, OR
Edward R & Jennifer C Herda, WA
Edward Stratton, OR
Edward, L Bayly, Or
Edwin & Linda Massey, WA
Edwin C. & Kathleen D. Sharpe, WA
Edwin J & Myrna L Hume, WA
Edwin Q & Jennifer W Tam, WA
Efrain & Laurie Sanchez, WA
Eileen and Victor Chieco, OR
Eileen R Boman, WA
Eino Johnson, OR
Ekta Mittal, WA
Eldon D & Rebecca S Baumgardner, WA
Elfriede H Kristwald, WA
Eli & Kaela Holm, WA
Elinore Darland, OR
Elisabeth Bondy, WA
Elisha S & Judy E Harris, WA
Elizabeth A Roberts, WA
Elizabeth C Haba, WA
Elizabeth H Coker, OR
Elizabeth Keyser, OR
Elizabeth R Larson, WA
Elizabeth R. Carnay, WA
Elizabeth Rankine, WA
Elizabeth S Noorwood, WA
Elizabeth Vreugdenhil, WA
Elizabeth W Rogers, WA
Ellen Bondurant, OR
Ellen Carpentier, WA
Ellen Odmark, WA
Ellen R. O'Hern, WA
Ellen Saunders, OR
Elma E Monts, WA
Elmer M & Marjory Hoover, WA
Elpidio Cruz, OR
Elton & Fritzi M Edwards, WA
Emil L & Kristin M Williams Liedtke, WA
Emily J. Montreuil & Richard T. McCartney, WA
Emory J Gerhart, WA
Eric Mendenhale, WA
Eric & Barbara Lopez, WA
Eric & Lisa Brunner, WA

Eric B & Cheryl A Smith, WA
Eric B McLeroy, WA
Eric Burr, WA
Eric C & Courtney J Grimstad, WA
Eric C. Stroud, OR
Eric Chase, WA
Eric D & Daniel Webster Wilkerson, WA
Eric D & Kristina K Swanson, WA
Eric Devereaux, WA
Eric Grechko, WA
Eric J & Andrea G Haley, WA
Eric Johnson, WA
Eric K & Melinda D Ness, WA
Eric L T Johnson, WA
Eric M & Tracy A Haines, WA
Eric W & Julia A Sims, WA
Erich Freitas, WA
Erick P. Bennett, OR
Erik Halvorson, WA
Erin G & Robert W Stevens, WA
Ernest O'Byrne, OR
Ernest W & Elsie M Moffet, WA
Ernie Laulainen, WA
Ernie Loreen, WA
Escott L Gardiner, WA
Estelle Voeller, OR
Eugene & Ida Vangrinsven, WA
Eugene M Bleth, WA
Evelyn J Wilson, WA
Evelyn M & Owens, Leah Tte Miller, WA
Everett G & Eileen M Meyer, WA
Ezra D. Baldwin, WA
Farhad & Lida Mottaghian-Milani, WA
Farrell Orton Farms LLC, WA
Fay Payton, WA
Felicia Cohen, OR
Ferdinand Mark P & Girlie A Flores, WA
Finn R Christiansen, WA
Flick D Broughton, WA
Florin Baias, WA
Floyd L., Sr Voie, WA
Floyd Prozanski, OR
Francis C & Adanne J Jeffries, WA
Francis E. Quinn, OR
Francis G & Pamela K Humiston, WA
Francis J & Larene K Durning, WA
Francisco Santiago, WA
Frank & Joan Wagner, WA
Frank Falco, OR

Individuals (cont'd)

Franklin & Margarita Molina, WA
Franklyn Henry, WA
Frans Eykel, WA
Franz Puhl, OR
Fred & Darlene Furukawa, WA
Fred White, OR
Fred, Jr Hamm, WA
Frederick A & Carol A Mathers, WA
Frederick Graves, WA
Frederick K Go, CA
Frederick M & Dorothy F Lowell, WA
Frederick R Revocable Trust ET AL Bernet, OR
Fredrick L & Cristi Casebolt, WA
Fritz E. & Louise M. Abhold, WA
G. Dianne & Gilmore I., Jr Peterson, WA
Gabe C Fields, OR
Gabriel V Cruceanu, WA
Gabriele Bartholomew, WA
Gail J Poole, WA
Gail Lovelady, WA
Gail M. Zmok, OR
Gail Sorensen, WA
Gale A & Penny S Massey, WA
Gale M. Fitterer & Gregory Jon Wagner, WA
Galen Davis, WA
Gansler Trust, WA
Gary & Pamela Hendrickson, WA
Gary & Sandra Chittenden, WA
Gary & Sherylynn Dettwiller, WA
Gary & Susan Rogers, WA
Gary & Wiggins, Whitney Lagerstrom, WA
Gary A Alexander, WA
Gary Barnett, OR
Gary Cannell, WA
Gary Cotton, WA
Gary Dyer, WA
Gary E & Debroah R Nicklett, WA
Gary F & Debbie R Daniels, WA
Gary K Johnson, WA
Gary L & Chrysler Dana L Chrysler, WA
Gary L & Debra D Hatfield, WA
Gary L & Edith A Thomas, WA
Gary L & Jacquelyn K Knaus, WA
Gary L Sylte, WA
Gary M. & Rebecca & David Ferderer Cline, WA
Gary Massoni, OR
Gary N Robertson, WA
Gary Norman, WA

Gary R. Howard, WA
Gary T & Becky Ribelin, WA
Gary W & Brigid K Totten, WA
Gary W & Kari L Carlin, WA
Gary Witteman, OR
Gary Ziak, OR
Gayle & Jerome Kroke, WA
Gayle Kiser, WA
Gayle RogersBullington, WA
Gene & Kim, Eun Jung Oh, WA
Gene & Magdalena Ross, AZ
GENIE L LIVING TRUST & DAVID L FOLSOM, WA
Geoffrey A & Lorna D Mueller, WA
George & Dona Loflin, WA
George & Judy Keith, WA
George & Julia Hemminger, WA
George & Maricel Abenojar, WA
George A Biggerstaff, WA
George and Caroline Trice, WA
George E & Heather H Holcomb, WA
George E & Portia Wilcock, WA
George Exum, WA
George Georgitsis & Scott Overby, WA
George Hague, OR
George L & Bernice E Brunelle, WA
George N. Ying Lin Lawrence, WA
George Paradis, WA
George R & Sandra L Roscoe, WA
George S & Patricia A Krencik, WA
George W. & Sharon R. Kinkade, WA
George Warren, OR
George William Wiemerslage, WA
Georgina Boyson, WA
Gerald & Jody R Bentler, WA
Gerald & Vicki Mylan, WA
Gerald A & Janet L Welch, WA
Gerald Copeland, OR
Gerald G Clark, WA
Gerald Holubiczko, AZ
Gerald L & Cherie M Kiger, WA
Gerald L & Judith L Lange, WA
Gerald Lindquist, WA
Gerald Peterson, WA
Gerald R & Marie A Johnson, WA
Gerald R Lemmons, OR
Gerald T & Shirley L TTEE Hodgins, WA
Gerald W Walstad, WA
Geri Roubidoux, WA
Gerold D & Lori A Parsons, WA

Individuals (cont'd)

Gerry & Myldred Cunnington, WA
Gerry R & S K Anderson Curtis, WA
Ghose Sayata & Marcus Belcher, WA
Gilbert & Leta R Goethals, WA
Gilbert D Snyder, WA
Gilbert Rodriguez, WA
Gina L Andrews, WA
Gladys T Ramsdell, WA
Glen Harter, WA
Glenn E Bagley, WA
Glenn Gilbert, WA
Gloria Miniszewski, OR
Gordon E Howe, WA
Gordon J & Kathy M Francis, WA
Gordon W & Nadeene Wiebe, WA
Govindaswamy Bacthavachalu, WA
Grace Moore, WA
Gray Mckee, OR
Greg & Christiane Carder, WA
Greg Blomstrom, CA
Greg Hanon, WA
Greg Mecklem, OR
Gregg K & Cynthia K Cunningham, WA
Gregory & Amanda Nelson, WA
Gregory & Smith, Evon Andal, WA
Gregory & Vanhout, Gretch Johnson, WA
Gregory B & Charlotte R Proulx, WA
Gregory Cecil, WA
Gregory E & Angela M Hovde, WA
Gregory N & Brandi L Marvin, WA
Gregory S & Danielle L Watson, WA
Gregory S & Patricia E McVey, WA
Gretchen E Vanbrunt, WA
Guadalupe Reifers, WA
Guerdon C Ellis, WA
Gust A & Tricia M Jahner, WA
Gwen L. McMahon, OR
H. Bernard, IV & Kristen L. Hansen, WA
Hank & Ruth Leenstra, WA
Hank Mrazkowski, OR
Hans G & Ann K Lindstrom, WA
Hans J & Hazel A Siebert, WA
Harley Pfaff, WA
Harnek & Sohi Ananteep Kaur Dhudwal, WA
Harold A Matz, WA
Harold D & Elizabeth A Disharoon, WA
Harold E & Gertrude L Britton, WA
Harold Gaskin, OR

Harold Grass, OR
Harold J & Kathleen I Rupe, WA
Harold Palmer, WA
Harriet Berman, OR
Harriett Mckim-Smith, OR
Harris E & Elaine M Cox, WA
Harry B. & Doris A. Anderson, WA
Harry G Cumming, OR
Harry K D O'Neill, WA
Harry L & Darlene R Woolery, WA
Harry L Bond, WA
Harry O Clements, WA
Hassan & Shahla Ghassemieh, WA
Hazel Caldwell, WA
HDR, Matt Hutchinson, OR
He & Fan, Yi Tiangi, WA
Heather & Moersch, Tony D Shaw, WA
Heather Greene-Beloit, WA
Heather Marx & Corey Ray, WA
Hector A P & Siragusa Mariscal C Matos, WA
Hector L & Zina M Rodriguez, WA
Heidi Buchwald, WA
Heidi Matheney, OR
Heidi Newsome, WA
Helen & Perry E. Johnson Living Trust, Helen Johnson, NJ
Helen Jean Tillotson, WA
Helen Moore, OR
Helen, Trust Dtd 11-23-09, Et Al Johnson, NJ
Helena M Wester, OR
Helon Howard, OR
Henry & Carol Hayes, WA
Henry & Kathleen Vandermeulen, WA
Henry E Whittlesey, WA
Henry Meeker, OR
Henry N. & Tanis Miller, WA
Henry O'Brien, OR
Herbert A Wilke, WA
Herbert H & Grace Killam, WA
Herbert Lloyd G & Rudge, Barbara Knowles, WA
Herbert M. & Nancy Jean Wiseman, WA
Herman Barnett, WA
Herman Gotfrid Conrad Nix, WA
Higgins Living Trust & Robert W. Higgins, WA
Hikojiro & Sharon E Katsuhisa, WA
Hoi Man Sun, WA
Hollis Paul, WA
Holly A. Grenz & Allen J. Grenz, WA
Holly Ann Rogers, WA
Holly L & Jonathan H James, WA

Individuals (cont'd)

Holly Rickles, WA
Hong Wan, WA
Hongzeng & Liu Fengfen Guo, WA
Howard B & Lisa C Nelson, WA
Howard Clark, WA
Howard E III & Janet G Bowers, WA
Howard L., Jr & Jana Herrold, WA
Hugh A & Janet L Grimoldby, WA
Hugh A Hillis, WA
Huiqin Jiang, OR
Hye Kyung Kim, WA
Ian Jezorek, WA
Ian Quinones, WA
Ik Jung & Eun Hee Seo Chun, OR
Ila E Hawkes, OR
Innes McLaren, OR
Ioan & Raveca Muntean, WA
Irene & Arnold Coon, WA
Irene & Howard G. Judd, WA
Irene Bensinger, WA
Irene Embrey, WA
Irene M. Suver, WA
Ivan E & Terry Jensen, WA
Ivan O. Anderson, WA
Iwona Marciniak-Glabek & Arkady Glabek, WA
J Richard & Tami Baalman, WA
Jack & Jackie Bruner, WA
Jack & Janice Bothwell, WA
Jack A. Goodson, WA
Jack Dalton, OR
Jack E Hughes, WA
Jack K & Danelle L Sanders, WA
Jack L Wray, WA
Jack M & Kathryn C Frost, WA
Jack M Turk, WA
Jack Oates, WA
Jack P & Suzanne C Edwards, WA
Jack R & Kathy I Green, WA
Jack Radey, OR
Jackie Melvin, OR
Jackie Orton, WA
Jackie Sorensen, OR
Jacob A Rummel, OR
Jacob W & Jennifer L Miller, WA
Jacqueline Lorenzen, WA
Jagdish & Sibylle Singh, WA
Jai Hari S Khalsa, OR
Jaime & Priscilla Cerna, WA

Jaime & Spengler, John & Link, WA
Jamee J Tate, WA
James & Carol Fare, WA
James & Carole Gay, WA
James & Carole Lowman, WA
James & Connie Jo Dykstra, WA
James & Doris Lott, WA
James & Gumhan Kim, WA
James & Krishanthi Nelson, WA
James & Marsha Wilson, WA
James & Melinda Riley, WA
James & Vernalee Lindemann, WA
James A & Cristi A Acuna, WA
James A & Norma Douvier, WA
James A West, WA
James A. & Laura J. S. Laudolff, WA
James A. Douglas, WA
James B & Cynthia L Badham, WA
James B & Rebecca A Potter, WA
James B & Shea A Craver, WA
James B & Sheryl M Schmidt, WA
James C & Crystalina D Hyatt, WA
James C Ralph, WA
James E & Camela M Sutton, WA
James E & Carrie J Olesen, WA
James E & Cynthia L Elder, WA
James E & Jillene K Holter, WA
James E & Lisa Thomas, WA
James E. Lee, OR
James E. Spiess, WA
James E., Jr & Evelyn Brooks, WA
James F Koch, WA
James F. O'Hearn & Todd L. Kody, WA
James G. Moore, WA
James H & Leanne R Miller, WA
James H & Shirley W Echols, WA
James Holman, OR
James K Lee, WA
James Kalberer, WA
James Kellett, WA
James L & Lucille S Langland, WA
James L & Vonnie E Milden, WA
James L McFall, WA
James L. Martini, OR
James Lee Lancaster, WA
James Leonard, WA
James Leroy Dillinger, WA
James Lyle & Alic Hardenburgh, WA
James M & Jane C Bond, WA

Individuals (cont'd)

James M & Marcie R Fricke, WA
James M & Vicki L Wagner, WA
James M., Jr Johnson, WA
James McClasky, WA
James Neikes, OR
James Nichols, OR
James O & Shirley J Boldt, WA
James O & Tammy L Ludlow, WA
James O Kimball, WA
James P & Kelly M Bramell, WA
James P & Marylan L Kelly, WA
James P Dailey, WA
James P Kennedy, WA
James R Gallagher, WA
James R. & Shannon R. Silvernail, WA
James R., Jr & Janet L. Carson, WA
James Reith, OR
James S., Jr & Heide A. Hudson, WA
James Schuler; & E. W. & Therese Gordon, WA
James T Kreofsky, WA
James Taylor, WA
James W & Eugenia K Fenton, WA
James W Richard, WA
James W Tootell, WA
James Wallace, WA
James Y Kim, WA
Jamie & Joshua A Taylor, WA
Jamie & Peter Quinlan, WA
Jamie Lee Stewart & Jacqueline Miller, WA
Jan Petree, OR
Jan Rinehart, OR
Jan Walker, WA
Jane & Shimoda, Terryll Ronngren, WA
Janet Allen, WA
Janet and Daniel A. Dommasch, OR
Janet Ross, WA
Janet Vaillancourt, OR
Jani J Kelly, WA
Janice Baker, WA
Janice E Jonas, WA
Janice Eller, OR
Janice L George, WA
Janice Levi, OR
Janis A Leikam, WA
Jared C & Janelle N Mike, WA
Jared L Hamrick, WA
Jason & Elaine Noack, WA
Jason & Kristalyn March, WA

Jason & Megan Turner, WA
Jason & Stephanie Lucier, WA
Jason & Toni Brown, WA
Jason & Wentz, Stepheney Eley, WA
Jason Brim, OR
Jason D & Gabriel A Omat, WA
Jason Ford, WA
Jason G & Krystal L Strand, WA
Jason Howell, WA
Jason L & Sommer S Lindell, WA
Jason R & Donna M Holland, WA
Jason Sweeney, OR
Jay & Megan M Marchand, WA
Jay & Vallone Ben Vallone, WA
Jay B & Pamela J Penick, WA
Jay K & Nicole C Gusler, WA
Jay M Weil, OR
Jay R. & Bernadette M. Lind, WA
Jay W Garthwaite, WA
Jayn Foy, WA
Jean C Boyd-Wylie, WA
Jean M & Susan C Kattar, WA
Jeanette L Mishler, WA
Jeanne A Lohmann, WA
Jeanne Brooks, OR
Jeanne Hochstein, WA
Jed M & Michelle L Woodward, WA
Jeff & Lynda Schwindt, WA
Jeff & Michele Friesel, WA
Jeff C. Variel, OR
Jeff R & Gail L Hemstead, WA
Jeffery A & Candy D McVey, WA
Jeffery K & Tahlia M Butler, WA
Jeffery K. & Karen R. Jansma, WA
Jeffrey & Marta Smith, WA
Jeffrey & Mildred De Marre, WA
Jeffrey & Rebbecca Krone, WA
Jeffrey & Reichlin, Danise Robinson, WA
Jeffrey & Shannon Von Forell, WA
Jeffrey & Tina Ko, WA
Jeffrey A & Cheri S Jacobsen, WA
Jeffrey A Davis, WA
Jeffrey Campbell, WA
Jeffrey Ellwood, WA
Jeffrey H Chivers, FL
Jeffrey J Conwell, WA
Jeffrey L & Cynthia E Akins, WA
Jeffrey M & Lora Patterson, WA
Jeffrey M & Naoni E Elliott, WA

Individuals (cont'd)

Jeffrey P Poirrier, WA
Jeffrey Quinney, WA
Jeffrey S & Turner, Katherine R Lawrence, WA
Jeffrey S Pantley, WA
Jeffry & Theodore Dunnington, WA
Jemma Crae, OR
Jenelyn M Wessler, OR
Jeness Mann, OR
Jennifer & Scott Hamblen, WA
Jennifer Anne Sakchalathorn, CA
Jennifer Risner, WA
Jennifer Short, WA
Jennifer Tice, WA
Jennifer Torgison, WA
Jennimae Hillyard, WA
Jenny YoungSeidemann, OR
Jerald L & Yumi T Roth, WA
Jeramie J & Angela M Ausmus, WA
Jeremiah D Pierucci, WA
Jeremy & Renee Evje, WA
Jeremy & Rivera, Ruben & Rivera, WA
Jeremy & Shanna Visser, WA
Jeremy A & Joanne D Ehrmantrout, WA
Jeremy J & James R Herbel, WA
Jeremy Kallerman, WA
Jeri K Sargent, OR
Jerri Eilert, WA
Jerrol Smerek, WA
Jerry & Brandy Huang, WA
Jerry & Brenda Ng, WA
Jerry & Pamela Gomes, WA
Jerry D Mooberry, WA
Jerry N Sturglaugson, WA
Jerry Osness, WA
Jeryce Russell, OR
Jess & Carol Workman, WA
Jesse A & Maren L Kreun, WA
Jessica Schwabe, WA
Jessie G & Andrea N Napenias, WA
Jessie Thomas, OR
Jesus Martinez Diaz, WA
Jian Zhong & Yuehua, Lin Tang, WA
Jill Hartman, WA
Jill J. Walter & Deann Goodspeed, WA
Jill Rouse, WA
Jill Seidenstein, WA
Jim Burnett, OR
Jim Capellen, OR

Jim Hawk, WA
Jim K & Lani L Lok, WA
Jim Santee, OR
Jim Scheller, OR
Jim Stoffer, OR
Jim VonStein, OR
Jim Zaleski, OR
Jimmie L & Patricia H Richardson, WA
Jimmie Y & Lynne Inouye, WA
Jimmy Beckwith, OR
Jimmy D & Debbie Francis, WA
Jisook Ri Chun & Young K. Chon, WA
Jo Hannan, OR
Joan R. Buckmaster, WA
Joann Muller, OR
Joanna Connolly, OR
Joanne Gregory, CA
Joanne Shih, WA
Joao Karlos Vilca Soto, WA
Jody McCaffree, OR
Jody Rodgers, WA
Joe A & Lora M Riley, WA
Joe E Wishcamper, WA
Joe Hengel, OR
Joe Kane, WA
Joe Nelson, WA
Joe R Hutchings, WA
Joel A & Michelle M Zehe, WA
Joel Lucia, OR
Joel Myers, OR
Joelle Mauthe, WA
John & Asako Voorhees, WA
John & Catherine Lenac, WA
John & Christine Rosenquist, WA
John & Cynthia Fuller, WA
John & Elizabeth Davidson, WA
John & Gretchen Corbin, WA
John & Heidi Ellis, WA
John & Joanne Parmley, WA
John & Linda Larsen, WA
John & Lynne Norton, WA
John & Marta Tankersley, WA
John & Mary Faure, WA
John & Michelle Dunn, WA
John & Michelle Scoggins, WA
John & Sheila Barlow, WA
John & Teri Parks, WA
John A & Donna P Hunter, WA
John A & Joan A Dragavon, WA

Individuals (cont'd)

John A & Joyce A Burns, WA
John A Rodrigue, WA
John A Surbert, WA
John A. Williams; & J. M. Fulton & L. Edward Strobel, WA
John Angell, AK
John C Taber, OR
John D Bargen, WA
John D Feldman, WA
John D Ferris, WA
John D. & Crystal R. Hagel, OR
John Demaria, OR
John Dervin, WA
John DuBois, WA
John E & Chun Mien Christian, WA
John E & Lynn E Kilgus, WA
John E & Sheri L Lawson, WA
John E Mitnik, WA
John E Scofield, WA
John Edwards, WA
John H & Allene L Rodenberg, WA
John H & Nancy E Dahlen, WA
John H Pitman, OR
John H. Korpi, AK
John Hahn-Francini, OR
John I & Gloria Kountz, WA
John J & Brigett T I Hall, WA
John J Christiansen, WA
John J. & Lisa K. Bluff, WA
John Jordan, OR
John Jr. (Heir) Taggart, OR
John K Tolonen, WA
John K. Hoxeng & Sonja L. Prince, WA
John Kaakinen, OR
John Kalander, OR
John Linzee, WA
John Little, OR
John M & Carol A Hamlot, WA
John M & Nancy Graff, WA
John M Corwell, WA
John M., III Myles, WA
John Magnuson, WA
John O'Neil, WA
John Oscar, Jr & Kirsten Marie Morton, WA
John P & Kathleen A Corrigan, WA
John P Jeroue, WA
John P Wimberley, OK
John Paul, OR
John R & Delores Pettitt, WA

John R Urback, WA
John Rogantine, OR
John Rogantine, OR
John S & Lynn G Burch, WA
John S & Toni Brender, WA
John Stelfox, WA
John W & Judith A Bogsch, WA
John W & Rosemary B Allen, WA
John Washington, OR
John William Kaakinen, OR
John, Jr Soltis, WA
Johnny E & M Sharon Swartz, WA
Johnson Revocable Trust, WA
Jon B. Thomas, OR
Jon C & Cynthia J Flinchbaugh, WA
Jon C & Joyce C Evans, WA
Jon D & Evanne B Aarstad, WA
Jon Hornback, WA
Jon Koriagin, OR
Jon Madian, WA
Jon Shelley, OR
Jonathan & Angela Teano, WA
Jonathan A & Maegen A Blue, WA
Jonathan Floyd, WA
Jonathan G & Mary J Dinsmore, WA
Jonathan H & Elizabeth Clark, WA
Jonathon A & Kimberly Shipman, WA
Joni M Bragg, WA
Jon-Michael & Caroline Terlaje, WA
Jorge G & Barbara J Tirado, WA
Jose A Trujillo, WA
Jose Acosta-Jaquez, MI
Jose Garcia, WA
Jose Mendoza, WA
Jose R & Armida Mayorquin, WA
Josef Gault, OR
Joseph & Karen Hurzeler, WA
Joseph & Kathleen Spadaro, WA
Joseph & Suzette Yoshitake, WA
Joseph B & Theresa Indovina, WA
Joseph Bodmer, WA
Joseph C. & P. F. Patterson, WA
Joseph Christen, OR
Joseph Deutsch, WA
Joseph Gymkowski, OR
Joseph L & Kelley L Bremgartner, WA
Joseph L & Margie R Parker, WA
Joseph Lee Rex & Bern Hoover, WA
Joseph M & Janet E Macher, WA

Individuals (cont'd)

Joseph M & Janice M Emery, WA
Joseph Michael Haggren, OR
Joseph P & Roberta L Schlosser, WA
Joseph Riddell, WA
Joseph S & Susan P Powell, WA
Joseph T. & Annette T. Leclair, WA
Joseph, Jr Santilli, WA
Josephine Luke, WA
Josh Cole, OR
Joshua & Walker, Adrienne Mark, WA
Joshua Alan & Beth Alison Smith, WA
Joshua C Searle, WA
Joshua D & Nicolette E Marzolf, WA
Joshua Lomen, WA
Joshua Montero, WA
Josie Peper, OR
Joy Arianashira, WA
Joyce C Beahan, WA
Joyce Law & David Faires, WA
Joyce M Driscoll, WA
Joyce W Teng, WA
Joyce Weir, WA
Jr & Tressa Greene Trust Clarence, WA
Juan J & Vazquez, Deyana M Hernandez, WA
Juan, Jr & Georgette M. Bandin, WA
Juanita Rosene, OR
Judith A Hart, WA
Judith A Rivera, WA
Judith B. Kocer, WA
Judith Grote, WA
Judith Hart, WA
Judson & Karil J Branch, WA
Juel M. Smith & Ronald L. Norton, WA
Jugraj & Randhawa Singh, WA
Julia Bondi, OR
Julia C Partlow, OR
Julia Herrin Reed, WA
Julia Hurd, WA
Julianne Hall, OR
Julie E Hillend-Jones, WA
Julie K Larson, WA
Julie Whitacre, WA
Juliet Ching, OR
Juliette C Smith, WA
Julio & Phoebe Mendez, WA
Julio Torres, WA
June Buma, WA
June C Stinson, WA

Jurgen Exner, WA
Justin & Erin Gillenwater, WA
Justin & Michelle A Harries, WA
Justin & Mindy Byran, WA
Justin & Raquel Onedera, WA
Justin T Kenney, WA
K C Heckenberg, OR
K Jane Mccassey, OR
K Sweeney-Easter, WA
Kae Moe, WA
Kalyanaraman & Sangeet Prasad, WA
Kanishk & Neha Panwar, WA
Kannan Choodamani & Aruna Kannan Iyer, WA
Karen Calvin & Robert E., Jr Woodard, WA
Karen L Rodewald, WA
Karen Levine, OR
Karen M & Michael A Thomas, WA
Karen M Haverkate, WA
Karen Moody, WA
Karen Pehoushek, WA
Karen Shawcross, OR
Karen Whalen, WA
Karen Wickham, OR
Kari & Ruth Ann Hakso, WA
Kari Kay Boyle, WA
Karl H & Beth M Deissler, WA
Karl M Ludwig, WA
Karl Piller, OR
Karl R Sieger, WA
Karla C Pineda, WA
Kate Joyce Cooper, OR
Katherine & Eric and Brown, Randall Gudgel, WA
Katherine & Salvador Santos, WA
Katherine A & Nygaard K & R E Selsor, WA
Katherine Batts, WA
Katherine Foldes, OR
Katherine Kauzlarich, WA
Katherine Mast, OR
Katherine Mayben, WA
Katherine Riddle, WA
Kathi Merrit, OR
Kathleen A Erholm, WA
Kathleen A Seehorn, WA
Kathleen C Carrera, WA
Kathleen Forcier, WA
Kathleen Hall, WA
Kathleen Ing, WA
Kathleen Kelly, WA
Kathleen Meagher, OR

Individuals (cont'd)

Kathleen Mitchell, WA
Kathleen Richardson, WA
Kathleen Robson, WA
Kathleen Sullivan, OR
Kathryn Levine, OR
Kathryn M Barnard, WA
Kathryn R Wayne, WA
Kathy Bowen, OR
Kathy Greysmith, OR
Kathy Johnson, WA
Kathy L Saka, WA
Kathy M Boyll, OR
Kathy Su-Tsow, WA
Kathy Swingle, WA
Kathy Wilson, WA
Katie Whittier, WA
Kay Kendall, OR
Kay Kinsley, OR
Kay L Hoffman, WA
Kay M Lyon, WA
Kay Peterson, OR
Kayla & Alex Hill, WA
Kees Kolff, WA
Keith & Charlyn Anderson, WA
Keith A Terry, WA
Keith D Zaichkin, WA
Keith Hay, CA
Keith J & Karen J Boon, WA
Keith Mason, WA
Keith Morey, OR
Keith Neal, OR
Keith Strader, WA
Keith W Lofstrom, WA
Kelly Glenn & Thaddeus Singer, WA
Kelly Paige, OR
Kelvin G & Tracie T Lung, WA
Kelvin Lindren, WA
Kemper Family Living Trust, Matthew & Delores Schouten,
OR
Ken & Gena Unser, WA
Ken & Joomi Shou, WA
Ken & Rise A Crowl, WA
Ken Garman, WA
Ken R & Linda C Solberg, WA
Ken Whipple, WA
Kendrick Simila, OR
Kenneth & Linda Carlson Schroeder, WA
Kenneth B. & Sandra L. Ness, WA

Kenneth Breckwoldt, WA
Kenneth Brown, OR
Kenneth Cambley, WA
Kenneth D. Smith, WA
Kenneth G & Lisa A Haynes, WA
Kenneth J. Hicks, OR
Kenneth L & Gloria Crocker, WA
Kenneth L & Janna L Stevens, WA
Kenneth L & Kimberly L Courser, WA
Kenneth M & Carlaine E Downs, WA
Kenneth R & Susan F Geschwint, WA
Kenneth R. Ampel, OR
Kenneth Rask, OR
Kennie Lee Jr & Adrienne L Cotton, WA
Kent & Maureen Callen, WA
Kent A & Heidi L Kamphouse, WA
Kent J Preston, WA
Kent S & Gretchen M Stepaniuk, WA
Kenton C. Barker & Megan P. Condon, WA
Keri Callahan, WA
Kerie M & Aaron A Swepston, WA
Kerry K. Harper & T. C. Goff, MO
Kerry Phibbs, WA
Kerry W & Debrah J Cruze, WA
Kerry Warren, WA
Keshuang & Zhang, Caifeng Shen, WA
Kevin & Cherrisse Chapman, WA
Kevin & Gallo, Patti Murphy, WA
Kevin A & Pamela Wessel, WA
Kevin A & Sharon L Gansneder, WA
Kevin A & Victoria L Cleveland, WA
Kevin B & Carole Bullard, WA
Kevin C & Jackie L Stone, WA
Kevin Gundersen, WA
Kevin J & Shelley A Walker, WA
Kevin J & Tia McGreevy, WA
Kevin Johnson & Ashli D. Tyre, WA
Kevin K & Erica L Ford, WA
Kevin Kern, WA
Kevin Leja, WA
Kevin P & Heather M Joyce, WA
Kevin P & Susan P Sullivan, WA
Kevin Schmidt, WA
Kevin Slaughter, WA
Kevin T Seward, WA
Kevin Wickes, WA
Khuong & Nguyen, Jaclyn Le, WA
Kiernan Hodge, OR
Kim & Lewis, Jimmy Merow, WA

Individuals (cont'd)

Kim A & Paula Y Crumrine, WA
Kim Chesley, WA
Kim L Scott, WA
Kim Weers, WA
Kimberly French, WA
Kimberly M & Edward A Page, WA
Kimberly Olds-Craig, WA
Kimberly Serrano, OR
Kirati & Ladda Mankongvanichkul, WA
Kirk & Sarah Reid, WA
Kirk E Hyatt, WA
Kirk H Prindle, WA
Kirk R. Nortman, OR
Kirsten E. Esvelt, WA
Kit Watts, OR
Knutson Testamentary Trust & Mark C Knutson, WA
Krisha Davis, WA
Kristie L Terrio, WA
Kristin Barber, WA
Kristin L Joachim, OR
Kristina & Chris B Newcomb, WA
Kristine I & Daniel B Borden, WA
Kristofer & Stephanie Sparks, WA
Krystal M. Erickson & Jory L. Clark, WA
Kuhlman Louis J, WA
Kurbanali H Merchant, WA
Kurt & Becky McKibben, WA
Kurt & Betsi Stich, WA
Kurt A & Susan H Hamke, WA
Kyle Hatfield, WA
L Daloz, WA
L. A. Kimmet & Brian E. Roberson, WA
L. K. Althouse, OR
L. R. Lofgren & H. E. Truitt, WA
Ladonna & Kummerfeldt, Ryan Meadows, WA
Lana Massa, WA
Lana Maupin, OR
Lance & Tina Larsen, OR
Langley Family Trust, Mark Langley, WA
Lanny H. & Jill S. Cawley, WA
LaRee Johnson, OR
Larry & Betty Pekkola RLT (Trustees), OR
Larry & Holly Mahan, WA
Larry & Kelsey Dungan Rand, WA
Larry D Chinn, WA
Larry D Drawhorn, WA
Larry D. & Margaret Trudeau, WA
Larry Dale & Kathleen E Loveall, WA

Larry G & Kathleen S Hittle, WA
Larry G & Mary Harbison, WA
Larry Gravely, WA
Larry K & Sandra D Albertson, CO
Larry L & L Dianne Pletcher, WA
Larry Lovelady, OR
Larry M Wasisco, WA
Larry M. & Debra L. Lowe, WA
Larry Mark Bergeson, OR
Larry R Williamson, CA
Larry S. Ahl, OR
Larry Scott McMillan, HI
Larry Steele, OR
Larry Troy, WA
Larry W & Sally S Omo, WA
Larry Williams, OR
Laura Alves, OR
Laura C Cassey, WA
Laura Golinod Lavato, OR
Laura Leigh Brakke, WA
Laura VanFleet, OR
Laurence W. Brown, WA
Laurie B Porter, WA
Laurie Doscher, OR
Lavon D & Mary M Woodard, WA
Lawrence & Laura Johnson, WA
Lawrence A & Patricia A Jones, WA
Lawrence D James, WA
Lawrence M Thorpe, OR
Lawrence R & Elaine Haft, WA
Leah Matheson, OR
Lee & Susan Boevers, WA
Lee B & Natasha Parker, WA
Lee Labrash, WA
Lee Miller, WA
Lee Powell & Joyce Gillingham, WA
Lee Roy J Engler, WA
Lee Roy Seymore, WA
Lee Talbott, OR
Lee Vern Truman, WA
Lee Walking, WA
Lee Wilson, OR
Leith Macfarlane, OR
Leland Seibert, OR
Lemec & April Pierre, WA
Lemoine Radford, WA
Lena Sayers, WA
Lenoir K Hayward, OR
Lenora & Guy Anderson, WA

Individuals (cont'd)

Lenora M. Anderson, WA
Leo L & Diane Kimmet, WA
Leon Chow, CA
Leon J Lara Dolores, WA
Leon T & Frances S Matz, WA
Leon Thrane, WA
Leona Crow, WA
Leonard & Linda L Ramsdell, WA
Leonard Brock, WA
Leonard H & Leila R Brickey, WA
Leonard Hockley, OR
Leonard M Roughgarden, WA
Leonard Maslanka, OR
Leonard P & Patrice A Vincent, WA
Leonard V & Lorraine E Simpson, WA
Leroy B & Laurel A Fay, WA
Leroy K. & Joyce A. Bruenn Trust, Leroy, WA
Lesia Montgomery-Toms, WA
Leslea Steffel-Dennis, WA
Lesley A & Keller, Benja Colby, WA
Leslie A Methe, WA
Leslie E Bailey, WA
Leslie E Baker, NV
Leslie J Patterson, WA
Leslie Myrick, WA
Leslie Patrick, WA
Leslie Sonnergren, WA
Lester A Slead, WA
Lester H Greene, WA
Lester Rowles, WA
Levi Perkins, OR
Lewey Brown, WA
Lewis & Diane & Hood, Daryl D Lopes, WA
Lewis Tiffany, WA
Li Huan & Wei Wang, WA
Lijah K Manus, WA
Lila Mahan, WA
Lillian Buchanan, WA
Linda & Robert H Burns, WA
Linda B. Streitfeld, WA
Linda Cleckler, WA
Linda Harkness, WA
Linda Hruby, WA
Linda Kirk, WA
Linda L DeSitter, OR
Linda R. Adye & Andrew B. Whitish, WA
Linda Siverts, WA
Linda Sloane & Dwain D. Dabney, WA

Linda Stiles-Taylor, OR
Linda Thompson, OR
Linda Versteeg, OR
Lindsay A Jensen, WA
Linnea H. Evans, WA
Lisa A Britto, WA
Lisa Bull, WA
Lisa Dekker, WA
Lisa Fleek, WA
Lisa Karas, WA
Lisa Kelsey, WA
Lisa M. Richards & David M. Richards, WA
Lisa M. White & Kristofer A. Corning, WA
Lisa Malland, WA
Lisa R Resser, WA
Lisa Stevens, WA
Lisbet S Johnson, WA
Liu Yen Ping Chiao, WA
Llory Boynton, WA
Lloyd & Gail Wright, OR
Lloyd C Dally, WA
Lloyd L Walker, WA
Logan Rowland, WA
Lois C Bush, WA
Lois Eagleton, OR
Lois J Perrett, WA
Lois Kieffaber, WA
Lois Maxine Lee, WA
Lonn C Sweeney, OR
Lonnie G & Lucille A Brown, WA
Lonnie K Sargent, WA
Lonny J Wolk, WA
Lorraine M Dennett, WA
Loren & Bonnie Gilderoy, WA
Loren J & Shelli J Ackerman, WA
Loretta Orosz, OR
Lori Ann Disparte Carter, WA
Lori L. & Michael K. Hogarty, WA
Lorraine J Holcomb, WA
Lorraine N King, WA
Lorree Gardener, WA
Lorrie L Massie, WA
Lorrie M Wood, WA
Louis & Stefanie Mendenhall, WA
Louis I & Emily M Duran, WA
Louis Kloewer, WA
Louise Vinuya & Jeffrey Shands, WA
Low Alexander, OR
Luanna Iverson, WA

Individuals (cont'd)

Luanne & James Caylor, WA
Lucas G & Kirstie A Teeter, WA
Luciguela E King-Smith, WA
Lucile Brook, OR
Lucille M Gardner, WA
Lucy Mead, OR
Luke J & Brenda L Goethals, WA
Lulu Heavenrich, OR
Lyle E & Vicky J Fox, WA
Lyn Mattei, OR
Lynda M & Donald T McDaniel, WA
Lynn C Axtell, WA
Lynn F Cooke, WA
Lynne Treat, WA
M D Shively, WA
M Ellen Moon, WA
M Johantgen, WA
M Michael Slama, CA
M. L. Tompkins & John F. Forgey, WA
Madeline Kokes, OR
Madeline Murphy, OR
Magdalena S Trotter, WA
Mahlon D. Heller, CA
Makarand & Sonali Bhagwat, WA
Man Pham, WA
Manila M Cannon, WA
Manish Ajmera, WA
Manuel & Zorel Yu, WA
Marc & Elizabeth Provencher, WA
Marc P Mattila, WA
Marc R & Makisha L Norwick, WA
Marc Ratner, OR
Marc Vigna, WA
March Twisdale, WA
Marcia Gervin-Gillyard, WA
Marcia L Nanea, WA
Marcie C. Kahler & James C. Davis, WA
Marga Stanley, OR
Margaret & Brian Pomeroy, WA
Margaret A Maxwell, WA
Margaret C McNees, WA
Margaret Fourhman, WA
Margaret J Steeves, WA
Margaret J. Worthman, WA
Margaret L Larson, WA
Margaret Lemberg, WA
Margaret M Denison, OR
Margaret Ross, WA

Margaret Thompson, OR
Margarita Calderon & Eduardo Dominguez, WA
Margie J. Couch & Antonio E., Jr Peralta, WA
Margitta M Schulz, WA
Margot Fetz, OR
Maria I. Gonzales & Juan A. Daza, WA
Maria Isabel Cuevas & Ricardo Bramila, WA
Mariah Lindgren & Jacob Tilton, WA
Marianna Redd, OR
Maricres M & Clinton D Talley, WA
Marie Stuckey, OR
Marily D A Berko, WA
Marilyn Levin, OR
Marion M Barr, WA
Marisol L & Sean P Brice, WA
Mariya Yagodina, WA
Marji Westwood, WA
Marjorie A Noren, WA
Marjorie Cogan, WA
Marjorie, Tedrick- Turner, WA
Mark & Albany Walters, WA
Mark & Cynthia Harp, WA
Mark & Jennifer Balentine, WA
Mark & Judy Franklin, WA
Mark A Gallegos, WA
Mark Anderson, WA
Mark B & Diane A Satterlee, WA
Mark B. & Gloria G. Cutler, WA
Mark C & Kim T Hammer, WA
Mark D & Heidi D Fuller, WA
Mark D Farman, WA
Mark E & Jane R McDaniel, WA
Mark E Cunningham, WA
Mark E. & Carol A. Schulz, WA
Mark E. Rosin, WA
Mark Eagleton, OR
Mark F & Kimberley E Nygard, WA
Mark H Hickman, WA
Mark Hedin, WA
Mark J Gilbert, WA
Mark L & Karin A Hettel, WA
Mark R & Catherine A Nonhoff, WA
Mark S Edwards, WA
Mark Sutton, WA
Mark T Unno, OR
Markus & Megan Charboneau, WA
Marlon Montano, OR
Marni K McGuire-Elhard, MT
Marshall C., Jr Jones, WA

Individuals (cont'd)

Marshall T & Cynthia R Blansfield, WA

Marta Saarheim, OR

Martha Sucher, WA

Marthan Walker, NV

Martin A Nance, WA

Martin Ed Wise, WA

Martin Fox, WA

Martin Nygaard, OR

Martin Schroeder, OR

Martin Velez, OR

Marty & Bian, Knitter Griffith, WA

Marty E Belfield, WA

Marvin A & Glenda B & Vreugdenhil, John B Vreugdenhil, WA

Marvin A. & G. Bernice Vreugdenhil, WA

Marvin C & Saralee Smith, WA

Mary A McCann, WA

Mary Ann Brown, OR

Mary B Hutson, WA

Mary Bennett, WA

Mary Blake, OR

Mary C. Darling & Mark D. Langen, WA

Mary Cody, OR

Mary Colton, WA

Mary E McKay, WA

Mary E. Swinnerton, OR

Mary F Slaight, WA

Mary Flores, WA

Mary Gabriele, OR

Mary Gaughan, WA

Mary Jane Gray, OR

Mary K Weller, OR

Mary Larsen, WA

Mary Lasswell, OR

Mary Lou SanBlise, OR

Mary P. Lang, WA

Mary P. Scully, OR

Mary Smith, OR

Mary VanDer Veen, WA

Maryann Aborqui, WA

Mathew & Nicole Zemanek, WA

Mathew J & Shawna M Fuller, WA

Mathew J & Robyn N Eldridge, WA

Matt & Tok Nary Swart, WA

Matt Hodson, OR

Matt Mathews, OR

Matthew & Airen Perry, WA

Matthew & Caitlin Schweyen, WA

Matthew & Karli McIver, WA

Matthew & Lisa Woicik, WA

Matthew & Ti Fan Bucher, WA

Matthew A & Angela I Peart, WA

Matthew D & Nicole L Newsome, WA

Matthew H Marksbury, WA

Matthew Hayrynen, WA

Matthew J Kline, WA

Matthew L & Donald F & Judith M Olson, WA

Matthew M & Cindy Hamilton, WA

Matthew P Bracking, WA

Matthew S & Jessica M Weber, WA

Matthew Schiffman, OR

Maug & Bo Ra Kim, WA

Maureen Dooney Mosley, OR

Maureen F. Knutson, WA

Maureen L Medford, WA

Maurine & Michael Corcoran, WA

Max Cameron, WA

Maynard & Charlotte Trust Westmark, WA

Megan & Eric M Hall, WA

Mehrdad Ghaffari, WA

Melanie Beattie, WA

Melinda Blackwell, OR

Melinda Essig, WA

Melinda Flaig, WA

Melinda R Lytle, WA

Melissa & Jon Mortensen, WA

Melissa A Wallace, OR

Melody Williamson, OR

Melony S & Aaron S Cannata, WA

Melvin (Trustee) Hartill, OR

Melvin R & Laurie A Rees, WA

Melvin Ulven, OR

Merle & Timothy Miller, WA

Merlin G Rev Liv Trust Bowman, OR

Merry V. Young, OR

Meryle A Korn, OR

Micaela Moore & Michael Muhammad-Powell, WA

Michael & Brenda Keith, WA

Michael & Carli Gilbert, WA

Michael & Cathy Wojtowicz, WA

Michael & Cindy Smith, WA

Michael & Connie Wolffe, WA

Michael & Denise Hines, WA

Michael & Gwendolyn More, WA

Michael & Helen A Milyo, WA

Michael & Kathleen Miele, WA

Michael & Kathleena Gomes, WA

Michael & Katie Zinkgraf, WA

Individuals (cont'd)

Michael & Kimberly C. & Chesley D. & Jackie D. Tippery, WA
Michael & Laurie Debus, WA
Michael & Lesa Springer, WA
Michael & Lisa Ahlen, WA
Michael & Lori Bonifant, WA
Michael & Patty Haukenberry, WA
Michael & Velva J Lytle Wynne, WA
Michael A & Angela Parker, WA
Michael A & Kathleen M Essig, WA
Michael A & Mariye Ota Cina, WA
Michael A & Sandro D. Moscone; Teresa Grage & Stewart Metcalfe, WA
Michael A & Sharon L Dahl, WA
Michael A Sears, OR
Michael Armstrong, WA
Michael Ashe, WA
Michael Aubele, TX
Michael D & Bianca Lemmons, WA
Michael D & Elizabeth Swanson, WA
Michael D & Judy V Flanagan, WA
Michael D & Sharon M Fogarty, WA
Michael D & Sherri L Kingsley, WA
Michael D & Susan M Harris, WA
Michael D Anderson, WA
Michael D McDaniel, WA
Michael D Yandl, WA
Michael E & Amy L Shappell, WA
Michael E & Theresa Grijalva, WA
Michael F Pfister, WA
Michael F Seibel, WA
Michael G & Elizabeth Bejarno, WA
Michael G. & Merrily M. Sloan, WA
Michael H & Evelyne H Kennedy, WA
Michael H & Kristi A Keene, WA
Michael Hampel, WA
Michael J & Dianne E Grant, WA
Michael J & Elaine S Moshcatel, WA
Michael J & Kathleen A Hassur, WA
Michael J & Kristine L Duncan, WA
Michael J & Lissa M Smith, WA
Michael J & Pamela A Degrenier, WA
Michael J & Wendy M Del Sarto, WA
Michael J Amrine, WA
Michael J Devine, WA
Michael James Lull, WA
Michael John Dragness, WA
Michael K & Karen G McNamara, WA
Michael K Wolf, WA

Michael Krumper, OR
Michael L & Sarah A Dotson, WA
Michael L & Wendy A Young, WA
Michael L Roesch, WA
Michael Lombardo, WA
Michael Mcgee, WA
Michael O'Neal, WA
Michael Osborn, WA
Michael P & Patricia G Anderson, WA
Michael P & Wendy T Woodward, WA
Michael P Tipps, WA
Michael P Vernon, WA
Michael P Wisniewski, WA
Michael P. & Amy J. Williams, WA
Michael R & Susan G Cross, WA
Michael R. Boehmer & Daniel C Lindstrom, WA
Michael R. Reed, OR
Michael Robinson, OR
Michael S & Carrie A Gove, WA
Michael S & Lisa N Alexander, WA
Michael Slaughter, WA
Michael Snyder, WA
Michael Sturges, OR
Michael Swift, NV
Michael T & Joan K Watson, WA
Michael T Wooding, WA
Michael W & Barbara B Hallum, WA
Michael W & Briana Ethington, WA
Michael W. & Bonita I. Sours, WA
Micheal D & Claudia M Ussery, WA
Michela Bona & Davide Bertolo, WA
Michele M Durkee, WA
Michele Mennett, OR
Michele VanRiper, OR
Michelle & Ream, Jody Barnett, WA
Michelle Barnes, OR
Michelle Debell, WA
Michelle Downing, WA
Michelle J & Joshua B Gunia, WA
Michelle L Darby, WA
Michelle L Shambo, WA
Michelle L. Duhaime & Richard D. Duhaime, WA
Michelle M Evans, WA
Michelle Rothbauer, WA
Michelle Stewart, WA
Mickey W & Kathy Ann Askew, WA
Miguel & Montes Alicia A Amaral, WA
Miguel Tadeo Jimenez, WA
Mike & Debbie Sands, WA

Individuals (cont'd)

Mike J & Nolly C Bartos, WA
Mike Kennedy, OR
Mike/Chris Conroy, WA
Mildred L Lange, WA
Miles Martin, OR
Mitch Pyle, WA
Mitchell A Noftsger, WA
Mitchell Ross, OR
Mitzi Loftus, OR
Miyuki Peterson, WA
Mohammad R & Nahid, Hosseini Sianaki, OR
Molly Brown, OR
Molly Oberbillig, WA
Molly Onkka, WA
Molly Palmer, WA
Monica Taylor, OR
Monty J & Fadila Brown, AE
Monty L & Margaret Ann Price, WA
Monty R Perrott, AZ
MoonHill Mushrooms LLC, WA
Morgan Family Trust, Tom & Leah Morgan, WA
Mr. David S Gill, CA
Ms. Charlotte Dinolt, OR
Ms. Wendy Loren, OR
Muralikrishnan V & Edavalath, Sunitha T Puthanveetil, WA
Murugesan S & Nirma Subramani, WA
Muschi Mayflower, OR
Mychael A & Wyn U Ta, WA
Myron & Priscilla Zwadlo, WA
Myron A & Karin A Struck, WA
Myrtle M Specht, WA
Mysti L & Martin R Andrews, WA
N. C. Caldwell & Thomas C. Lafond, WA
Nadine L. Vanoverbeke & David J. Lord, WA
Nan Ellen Haberman & David Ingles Brock, WA
Nancy A Newell, WA
Nancy Brock, OR
Nancy Ceasar, OR
Nancy E. Jackson & Bruce R. Healy, WA
Nancy Earnst, WA
Nancy Ledgerwood, OR
Nancy Nelson, OR
Nancy P. White, WA
Nancy Phillips, OR
Nancy Smith, WA
Nancy Spaan, OR
Nanette Leaman, WA
Naomi N. Fellows, OR
Nardito N Ferrer, WA
Natalie Mercer, WA
Natalie Mercer, WA
Nathan A & Janice L Wiggins, WA
Nathan D & Christina Scherer, WA
Nathan Scott Lee, OR
Nathan Visan, WA
Nathaniel & Stephanie Kenison, WA
Neal & Serena Friedman, WA
Neal E & Shannan D Wooten, WA
Neal Stiffler, OR
Ned Petrich, OR
Neenos Rees, WA
Neil & Kimberly Pedersen, WA
Neil R & Patricia E Gansler, WA
Nelson A. & Pamela I. Graham, WA
Nelson A. Graham, WA
Nelson H Harano, WA
Nhu Nguyen, WA
Nicaela A. Hart & Gregory R. Hemenway, WA
Nicholas & Courtney Marg Brunelle, WA
Nicholas & Danielle Lashbaugh, WA
Nicholas B & Theresa A Galash, WA
Nicholas Condon, WA
Nicholas J & Colleen M Volk, WA
Nicholas Singer, OR
Nick & Janet Sprynczynatyk, WA
Nick Engelfried, OR
Nick Galaday, OR
Nicole & Turrie, Matthew Berry, WA
Nicole Hughes, WA
Nicole M Martin, WA
Nikolai Kopets, WA
Nikolay & Olga Verimeyev, WA
Nita & Kenneth Waller, WA
Norman C Grier, WA
Norman C. Waddell, OR
Norman G & Lucille S Araki, WA
Norna M & Michael J Luquette, WA
Nowell King, OR
O. Fred Eckhardt, OR
Olaf L Olsen, WA
Olga & Grigory Tereshchenko, WA
Om Prakash & Yadav Niti Ravi, WA
Ona Elizabeth & Douglas William Nighswonger, WA
Ordie & Pamela Butterfield, WA
Orville D Esteb, WA
P.T. Baldwin, OR
Paige Maks & Shannon Anderson, WA

Individuals (cont'd)

Pamela O Ericson, WA
Pamela R & Fawcett Schneider, WA
Paneko Trust, WA
Paranthaman Sundaravadelan, WA
Pascal & Heather Mansy, WA
Pat Arnold, WA
Pat Corcoran, OR
Patrice Pelland, WA
Patricia A. Ellis, OR
Patricia A. North, OR
Patricia Ann Stevens, WA
Patricia Carpenter, WA
Patricia Doheny, WA
Patricia Emerson, VA
Patricia J Fabian-Chavez, WA
Patricia K Hayes, WA
Patricia Kellogg, OR
Patricia Kennedy, OR
Patricia Knowles, NV
Patricia M & Danial R Clay, WA
Patricia M Miller, WA
Patricia Otto, WA
Patricia Terranova, OR
Patricia Thoe, WA
Patrick & Jennifer O'Leary, WA
Patrick & LaDawna Clerget, WA
Patrick & Michael Dooney, OR
Patrick & Sharon Hardy, WA
Patrick A. & Erica L. Griffith, WA
Patrick C & Verna M. Dessert, WA
Patrick D Clark, WA
Patrick G & Kathleen Rua, WA
Patrick J Gu, WA
Patrick J., Sr O'Brien, WA
Patrick K McKillip, WA
Patrick M & Irma J Morgan, WA
Patrick M Ryan, WA
Patrick M. & Cheri A. McClellan, WA
Paul & Jennifer Tusler, WA
Paul A Hahn, WA
Paul C. Crocker, OR
Paul D Johnson, WA
Paul E & Vesta L Gibbard, WA
Paul E. Staub, OR
Paul J. Lutzenberger, WA
Paul Johansen, WA
Paul Johnson, WA
Paul L & Karen J Tegantvoort, WA

Paul M & Tatiana J Johnson, WA
Paul M., II & Sonia G Wright, WA
Paul Pohreich, WA
Paul R & Serena S Messner, WA
Paul R. & Grace I. Shaw Hill, WA
Paul S Cho, WA
Paul Sansone, OR
Paul Thompson, WA
Paula M Cook, WA
Paula Mackrow, WA
Paula Springer, OR
Paulette Edmiston, WA
Pauline M Weber, WA
Paval A & Olga Magdalin, WA
Pavel & Chelsea Buzek, WA
Peg ElliottMayo, OR
Peggi Erickson, WA
Per Holten-Andersen, OR
Perry P Corwin, WA
Pete II & Sheri Jorgensen, WA
Peter & Janis L Pikulin, WA
Peter & Tin Ness Som, WA
Peter A Blane, WA
Peter E & Kristin M Carlson, WA
Peter Henry, WA
Peter J & Alejandra G Decruz, MS
Peter J. III Szambelan, OR
Peter M & Frances A Crosby, WA
Peter S Ogden, WA
Peter Truax, OR
Peter W. & Susan Janicki, WA
Phil Goldsmith, OR
Philip & Eileen Laskowski, WA
Philip & Linda Bye, WA
Philip & Viola Barber, WA
Philip A & Joyce E Marick, WA
Philip B Korthius, WA
Philip J & Kathleen E Demaree, WA
Philip M & Fanny Y Yee, WA
Philip Mahony, OR
Philip S Erikson, WA
Phillip & Gorham, Pamela Mills, WA
Phillip B Halloran, WA
Phillip C Johnson, WA
Phillip J & Sarah A Moss, WA
Phyllis Borden, WA
Piper Henry-Keller, WA
Polizois & Tracey Johnston, WA
Porter B Lombard, OR

Individuals (cont'd)

Porter H & Jacquelyn L Sigler, WA
Preston & Jennifer Thorne, WA
Preston Malzahn, WA
Qian & Yoke Wong Zhang, WA
Qian & Yoke Wong Zhang, WA
Quan & Kristina Wang, WA
Que Areste, WA
Quentin L & Molly L Clark, WA
R Jay & Brenda Allred, WA
R Wayne & Anne Redington, WA
R. D. Edfeldt & B. V. Steussy, WA
R. Duncan MacKenzie, OR
R. Grant, Jr & Vicki A. Levens, WA
R. Isaacson, WA
R. John Spade, WA
R. W. & Annabelle Bolduc, WA
Racheal A Bell, WA
Rachel Gilbert, WA
Rae Anne Miller, WA
Rajbir & Rupinder Raju, NJ
Ralland L Wallace, WA
Ralph & Marlene Riden, WA
Ralph & Victoria L Willey, WA
Ralph David Jones, WA
Ralph L Edwards, WA
Ramon Del Puerto, WA
Randall B & Sonna L Eader, WA
Randall C & Sheryl A Arens, WA
Randall D & Melanie J Hanson, WA
Randall Frable, WA
Randall Henderson, OR
Randall J. & Deborah L. Vaughter, WA
Randall N. Parks, WA
Randolph A Peters, OR
Randy & Alberta Cobb, WA
Randy & Diana Castro- Owens, WA
Randy Behrendsen, WA
Randy J & Judy L Sprague, WA
Randy L & Lori L Olson, WA
Randy L & Robin J Johnson, WA
Randy L Chandler, WA
Randy L Eckstrom, WA
Randy Lee Sorensen, WA
Randy R & Debra J Fisler, WA
Randy Ruggles, OR
Randy Schleis, WA
Randy Wiser, WA
Raphael Donayri, OR

Raul M & Jennifer Rojas, WA
Ray Gilbertson, WA
Ray Hines, WA
Ray K. Chapman, Jr., WA
Rayella Oppenlander, OR
Raymend L & Misty R Dupuis, WA
Raymond & Mary Hsu, WA
RAYMOND C & JANET M Christianson, WA
Raymond D Wilson, WA
Raymond E & Kassie M Clark, WA
Raymond E & Theresa J Bentley, WA
Raymond E Tibeau, WA
Raymond L & Beverly J Johnson, WA
Raymond O & Gayle A Goin, WA
Raymond R & Beverly A Carr, WA
Raymond T & Gail Arrington, WA
Rayner Ward, OR
Rebeca Reese, OR
Rebecca D. Gray, WA
Rebecca F Hughes, WA
Rebecca I Panzer, WA
Rebecca Pearson, WA
Rebekah M Mergenthal, WA
Rem & Joy Heng, WA
Rene Berblinger, OR
Renee Smith, WA
Reuben & Heather Hokanson, WA
Rex O & Joanne Bratton, WA
Rhonda Bekker, WA
Rhonda Peterson, WA
Ricardo A & Valerie Gallagher, WA
Richard & Angela Stanley, WA
Richard & Arlene Nation, WA
Richard & Cindy Fuhr, CO
Richard & Claralee Williams, WA
Richard & Crissy Leigh Dills, WA
Richard & Delores Irvine, WA
Richard & Donna Eliason; & Donald & Helen Eliason, WA
Richard & Judy Inch, WA
Richard & Kassel Rana Thomasy, WA
Richard & Kristi Fawver, WA
Richard & Lana I Zielinski, WA
Richard & Melinda Mark, WA
Richard & Rae Hahn, WA
Richard & Susan Muxen, WA
Richard A & Andrea Porter, MD
Richard A & Melinda A Endres, WA
Richard A Rizzs, WA
Richard B & Victoria Olsen, WA

Individuals (cont'd)

Richard Beckwith, WA
Richard Bell, OR
Richard Broome, WA
Richard Bryant, WA
Richard C & Judith E McIntosh, WA
Richard C Winter, WA
Richard Colombo, OR
Richard D & Kristina M Jenkins, WA
Richard D & Phyllis J Krueger, WA
Richard D Born, WA
Richard Delamare, WA
Richard E & Linda G Powell, WA
Richard F Glad, WA
Richard G & Sarah J Sando, WA
Richard H & Dana L Edmondson, WA
Richard Hanschu, OR
Richard Houghton, WA
Richard J & Behrend, Joy R Woods, WA
Richard J & Joan E Dwyer, WA
Richard J & Pok Sun Arnold, WA
Richard J Leon, WA
Richard J., Jr Kleemeyer, WA
Richard Jr & Karen D O'Neil, WA
Richard Keenan, WA
Richard L & Helen R Orcutt, WA
Richard L & Susan M Hall, WA
Richard L., Sr & Mary A Yaple, WA
Richard M. Schurman (Trust), CA
Richard M., III Westover, WA
Richard Magathan, OR
Richard Nakada, WA
Richard P & Tam L Nguyen, WA
Richard P., II & Gretchen A. Austin, WA
Richard R Carroll, WA
Richard Schmitz, OR
Richard Schultz, WA
Richard T & Tonya R Watanabe, WA
Richard W & Catherin Flanders, WA
Richard W & Tina M Bredengerd, WA
Richard W Drosman, OR
Richard W. & Elizabeth R. Rathbun, WA
Richard Winfield & Julie Hart, WA
Richards Trust, WA
Rick Martin, WA
Rick N Young, WA
Rick R Moser, WA
Ricky & Rosalinda V Eser-Jose, WA
Ricky Joseph, Real Property Officer, WA

Ricky L & Debra L Benner, WA
Rigoberto & Maria Salinas, WA
Riley M & Coleen Barlow, WA
Robert & Cain, Candace Samuels, CA
Robert & Davis Peggy Fleet, WA
Robert & Helen Sullivan, OR
Robert & Jessica Hester, WA
Robert & Kathleen Clawson Collins, WA
Robert & Kathleen Schroeder McNeill, WA
Robert & Kerstin Adams, OR
Robert & Linda Larrabee, WA
Robert & Lucinda King, WA
Robert & Steve Schuler, WA
Robert A & Cynthia Cox, WA
Robert A & Tara B Sorensen, WA
Robert A Silva, WA
Robert A Wick, WA
Robert A. Pastorok, WA
Robert B & Carrol J Grady, WA
Robert B & Jacquelin Stewart, WA
Robert B & Shawn M Miller, WA
Robert B Calkins, WA
Robert Boyd, WA
Robert Brady, WA
Robert C & Aprel D Stegman, WA
Robert C. Bruner, WA
Robert C. Mitchell, WA
Robert Cecil Cooke, OR
Robert Craig Cornwell, WA
Robert Crane, OR
Robert Crepps, WA
Robert D & Florence Wigre, WA
Robert D & Lynn D & David Zeigler, WA
Robert D & Lynn Knight, WA
Robert D & Marlene L Anunson, WA
Robert D & Melinda R Arco, WA
Robert D Mahaffey, WA
Robert Dean Larsen, WA
Robert E & Brenda L Smith, WA
Robert E & Janice Fleishman, WA
Robert E & Michelle M Welling, WA
Robert E & Sheri L Critchfield, WA
Robert E Burton, WA
Robert E Schellhase, WA
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Robert Fogt, WA
Robert H Quick, WA
Robert Holland, OR

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Robert L & Suzanne C Holmes, WA
Robert L Rooney, WA
Robert L. Ensley, WA
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Robert Lorey, KS
Robert Lowrance, OR
Robert M & Marie A Day, WA
Robert M Hathaway, WA
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Robert M. Decker, OR
Robert Mackimmie, OR
Robert Meyer, WA
Robert P Johnston, WA
Robert Pallett, OR
Robert R & Louise D James, WA
Robert S & Debra L Cason, WA
Robert S & Joanne Anderson, WA
Robert S & Lisa R Williams, WA
Robert S & Shawna K Bain, WA
Robert Stang, OR
Robert Tindall, OR
Robert VanElverdinghe, OR
Robert W & Deborah G Parsons, WA
Robert W & Karen J Backstrom, WA
Robert W & Susan H Checcha, WA
Robert W Foss, WA
Robert W Pederson, WA
Robert W Postma, WA
Robert Walling, WA
Robert Winsor, WA
Roberta Brice, OR
Robin Johnson, OR
Robin R Pfander, WA
Robin Stanley, WA
Roble Anderson, OR
Robynn Rodriguez, OR
Rod E Fenstermaker, WA
Rod Nelson, WA

Roderick F & Miriam R Faubion, WA
Roderick M & Joanne J Toll, WA
Roderick Morris, OK
Rodney & Patricia A Pfeifle, WA
Rodney A & Jaime J Maxie, WA
Rodney J Wort, WA
Rodney L. C. Nelson & Laurine D. Newberg, WA
Rodney R Peterson, WA
Rodney T & Heidi J Lakey, WA
Rodney William Lefeber, WA
Rodney Z James, OR
Rodolfo Umali, WA
Roger & Darcie Hays, OR
Roger A & Debra L Parry, WA
Roger A & Merry E Pettijohn, WA
Roger C & Jan A Reed, WA
Roger G Maki, WA
Roger H Molvar, WA
Roger J Widenoja, OR
Roger K. & Catherine A. Hoesterey, WA
Roger L & Karen E Crewse, WA
Roger Lindsley, OR
Roger R & Teresa E Robert, WA
Roger Rocka, OR
Rolf G & Christine M Kruger, WA
Romit & Carolina Singh, WA
Ron L & Clark Jenni L Clark, WA
Ron W. MacKenzie, OR
Ronald & Molly Giovanetti, WA
Ronald & Toni Farnsworth, WA
Ronald Clark, WA
Ronald Corder, WA
Ronald D & Pamela M Newman, WA
Ronald D & Pauline Oberlander, WA
Ronald D., Jr & Tiffany T. Harmon, WA
Ronald H Shanander, WA
Ronald J & Barbara G Campbell, WA
Ronald K Fox, WA
Ronald L Newenhof, WA
Ronald M & Beverly F Nelson, WA
Ronald M & Caroline J Nichols, WA
Ronald M & Meehan Ann Rene Rudge, WA
Ronald Marasco, WA
Ronald Oathes, Jr., WA
Ronald S Walt, WA
Ronald Schiffman, OR
Ronald Throupe, WA
Ronald Tokarz, WA

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Ronald W. Tritten, WA
Ronghua & Ho Geok Chin Jin, WA
Rose Lee, WA
Rose M Zinicola, NY
Ross Bondurant, OR
Ross W & Marjorie A Silver, WA
Rostislav & Nataliya Nagulyak, WA
Roxanne Crocker, WA
Roy C. Jordan, OR
Roy E & Margaret A Newman, WA
Roy H & Lisa F Delavergne, WA
Roy Hitz, OR
Roy W & Sheryl M Hill, WA
Roy Wahle, OR
Royce D & Sonia L Williams, WA
Russ Garnett, OR
Russell A & Deanna L Berglund, WA
Russell A Silva, WA
Russell Ashdown-Kroese, OR
Russell Boehm, WA
Russell C & Lisa G Jensema, WA
Russell Hall, OR
Ruth Bolliger, OR
Ruth Heft, WA
Ruth R Allen, WA
Ryan & Berryessa, Ashley Abel, WA
Ryan & Jessica Breeden, WA
Ryan & Spencer, Jessica Williams, WA
Ryan A & Heather N McBee, WA
Ryan A Dell, WA
Ryan Berryhill, WA
Ryan Castro, WA
Ryan D Moore, WA
Ryan Hyke, WA
Ryan J Dennis, WA
Ryan M & Diane L Dunne, WA
Ryan M Grose, WA
Ryan M Hallock, WA
Ryan T Mickey, WA
Ryan VanCleave, WA
S T Humphries & Helen Reynolds, WA
Sammie Connors, WA
Samok & Vandy Ouch, WA
Samuel A & Sue A Huff, WA
Samuel L & Jessica L Houston, WA
Samuel R Christie, WA
Samuel W., Chick & Michelle M. Henderling, WA
Sandra Cardenas, WA
Sandra Ferland, WA
Sandra K & Michael T Hagadone, WA
Sandra K & Riche, Ronald A Rice, WA
Sandra L. From & Kevin M. Mejia, WA
Sandra Leonard, WA
Sandra M Seedorf, WA
Sandra Mitchell, WA
Sandra Ruzicka, WA
Sandra S Sircin, WA
Sandy Murray, OR
Sara A & Torey G Donovan, WA
Sara E Griffin, WA
Sara S. Uzzell-Rindlaub & John V. Rindlaub, WA
Sarah A Lynch, WA
Sarah J Hintz, WA
Sarah Leyrer, WA
Savin Nou, WA
Sawvalok Kissner, WA
Scot D & Deborah K Thomson, WA
Scott & Daralee Newkirk, WA
Scott & Holly Smolinsky, WA
Scott & Jody Wickett, WA
Scott & Mara Jean McDonald, WA
Scott & Megan Andrews, WA
Scott & Nancy Moeller, WA
Scott & Purdin, Perry Casey, WA
Scott & Sylvia Robinson, WA
Scott A & Carlene A Duda, WA
Scott A & Michele R Darrington, WA
Scott Ater, WA
Scott B Murray, WA
Scott D & Traci Sciuchetti, WA
Scott D Ringwood, WA
Scott G. Walker, WA
Scott H White, WA
Scott J & Cheryl E Shipman, WA
Scott J & Corrin A Molvar, WA
Scott J. Rozenbaum, WA
Scott O & Kaycee Stackle, WA
Scott R & Heidi D Bee, WA
Scott R & Lora R Butterfield, WA
Sean & Brittanie Pruden, WA
Sean & Preboski, Emily Michel, WA
Sean & Rebecca McCullough, WA
Sean M & Ellen R Lindstrom, WA
Sean N Moore, WA
Sean P Nispel, WA
Seokkyun & Jordan Hong, WA
Seongho & Jiyeon Kim Wee, WA

Individuals (cont'd)

Sergey & Ludmila Garkusha, WA
Sergio & Amy Castaneda, WA
Sergio B Gonzalez, WA
Sha Spady, OR
Shadia & Elbou Ouldtaki Kaiefa, WA
Shane K & Susan M Tapert, WA
Shane M & Kimberly J Kelly, WA
Shane R & Alexis Tackett, WA
Shane R & Melissa R Larango, WA
Shannon & Christine Bruil, WA
Shannon Buck, OR
Shantanu Subhash & Anagha Deo, WA
Shari L Fry, WA
Shari Lee Phillips, WA
Sharon E Hendrickson, WA
Sharon E. Robbins & James R. Danforth, WA
Sharon L Johnston, CA
Sharon Schrock, OR
Sharon Verschuyf, WA
Shaun & Chastity Van Auken, WA
Shaun D & Christina Stauffer, WA
Shawn & Rachel Smith, WA
Shawn Hosford, WA
Shawn N. C. & Yolanda R. Drennen, WA
Shawna L Gonzales, WA
Sheila Conner, WA
Sheila Lang, WA
Sheila Warren, OR
Shel Cantor, OR
Sheldon J & Karen M Bukantz, WA
Shelia Starrett, WA
Shelley Burns, WA
Shelley S Weber, WA
Sheri Staley, WA
Sherif H Mahmoud, WA
Sherri BOWE, WA
Sherry L & Larry R Summers, WA
Sherry L. Vick-McLean & Shawn P. McLean, WA
Sherry Willoughby, OR
Sheryl J Lindquist, WA
Shin & Yumika Kodaira, WA
Shirlee Nash, OR
Shirlee Wallot, WA
Shu-Fang Huang, WA
Sidney B & Amelia J Stark, WA
Sigrid Asmus, WA
Simon Ross, WA
Sixto & Rosario Zaragoza, WA

Sol Riou, WA
Stacey L Jaimes, WA
Stacey L. Mort, WA
Stacey Lynne Smythe, WA
Stacie K. Joyce & Gerald K. Young, WA
Stan P & Jeff A Olson, UT
Stanley & Angela Wayment, WA
Stanley & Teresa Schmidt, WA
Stanley A & Connie K French, WA
Stanley C Warzecha, WA
Stanley G Ford, WA
Stanley Startzman, WA
Stanley Taylor, OR
Stedham Family Living Rev Trust, Ann Stedham, WA
Steen McFadden, MT
Stefan E Fafnis, WA
Stephanie D & Hoover N Wilson, WA
Stephanie Gay, WA
Stephanie Horrocks, WA
Stephanie L Call, WA
Stephanie M Long, WA
Stephanie Swift & Jamie Glenisky, WA
Stephanie Velie & Constance Gee, WA
Stephen & Brian Davidson, WA
Stephen & Connie Cross, WA
Stephen & Maria Dennehy, WA
Stephen & Roseanna D Cherrington, WA
Stephen & Sharon Marks, WA
Stephen Anderson, WA
Stephen Caldwell, OR
Stephen D Cottrell, WA
Stephen H Buroker, WA
Stephen Ho-Yuen Mak, WA
Stephen J Bartlett, WA
Stephen J Caputo, WA
Stephen J Pogue, WA
Stephen L & Janet E Holmer, WA
Stephen L & Poitina Fraser, WA
Stephen L & Serena A Swanson, WA
Stephen M & Heather A Rowan, WA
Stephen M & Sarah Biggerstaff, WA
Stephen Steinhoff, IA
Stephen W & Breezy M Hadeen, WA
Steve & Christofferson Marsha Christofferson, WA
Steve & Edlyn Warner, WA
Steve Dragich, WA
Steve Felkins, OR
Steve G & Deborah E Ellingson, WA
Steve L Eggers, WA

Individuals (cont'd)

Steve W Blankenship, WA
Steve Wilson, OR
Steven & Amy Ensminger, WA
Steven & Barbara Andersen, WA
Steven & Georgina Hamm, WA
Steven & Jolita Truett, WA
Steven & Kay Johnson, WA
Steven & Susan Persing McLain, WA
Steven & Yvonne Honea, WA
Steven A & Deborah N Ouimet, WA
Steven B Kenney, WA
Steven C & Tina M Benekas, WA
Steven C Hill, WA
Steven Coleman, OR
Steven D. & Harriet Koscho, WA
Steven E & Karen M Johnson, WA
Steven E Martin, WA
Steven G & Carmen L Grace, WA
Steven G & Larae Norbjerg Hopkins, WA
Steven J & Kathleen M Cummins, WA
Steven J & Lori R Gordon, WA
Steven Jacobson, WA
Steven Jun Kim, WA
Steven L Fitterer, OR
Steven Mueller, OR
Steven P & Marta Masters, WA
Steven R & Rhonda K Ward, WA
Steven R Karpman, WA
Steven Shane & Cynthia Bidwell, WA
Steven T & Julie D Gutzler, WA
Steven W & Angela A Watkins, WA
Stowell & Casey, Shannon Holcomb, WA
Stuart Poston, WA
Sue A Tenkley Trust, Gary, WA
Sue Noble, OR
Sue Skinner, OR
Sumanta K & Sanghamitra M Pal, WA
Sunny R Stiles, WA
Supratim & Chowdhury, Bonnhi De, WA
Supriya & Kunal, Gaind Kumari, WA
Susan A Betts-Donnelly, WA
Susan Arbor, OR
Susan Burke-Crum & Marvin, Jr Crum, WA
Susan C Sheythe, OR
Susan Chapman, OR
Susan Cobb, OR
Susan D George, WA
Susan E Markley, OR

Susan F Shemeta, WA
Susan Fahsel, WA
Susan Hess, OR
Susan J Gray, WA
Susan KhalsaWyborski, OR
Susan Martin, OR
Susan Mikkelsen, WA
Susan Padgett, OR
Susan Parrish, WA
Susan Rea Thramer, WA
Susan Rosen, Wa
Susan S Neidig, WA
Susan Zeman, WA
Susana Gladwin, OR
Susannah B & Jason D Barr, WA
Susanne Wilson, WA
Susheel L & Swaran L David, WA
Suzan L. Waddington & Charles W. Burr, WA
Suzanne Bahl, OR
Sylvia Black, OR
Sylvia J Hjelmeland, WA
Sylvia M Madsen, WA
Sylvia Zingeser, OR
Sz-Tsung Sun, WA
T Wasson, WA
T. K. Stewart & David K. Black, WA
T. L. Cannon, WA
Tahj & Emily Bomar, WA
TAK Memorial Trust, WA
Tamara Wehrer, WA
Tammy Chagolla & Matthew R. Noffke, WA
Tammy R Tiede, WA
Tanafriti Wright, WA
Tanja Wilcox, WA
Tara & Michael Rudolph, WA
Tatyana A Kimball, WA
Ted Chism, OR
Ted Thomas, OR
Tenzin & Amney, Kensang Dhongthog, WA
Tera Frydenlund, WA
Tera McCranie & Todd Green, WA
Teresa & McDonald, Heath Larson, WA
Teresa DeLorenzo, OR
Teresa H. Ralston, WA
Teresa L Roach, WA
Terie Remington, OR
Terrance & Kami Johnson, WA
Terry & Ingrid Powell, WA
Terry & Janet Steiner, WA

Individuals (cont'd)

Terry & Phyllis Posey, WA
Terry D & Raeann L Laberge, WA
Terry Hill, WA
Terry Hughes, WA
Terry HymanWalsh, WA
Terry L & Vicki L Machovsky, WA
Terry L McFarling, WA
Terry L. & Sandra Day Aho, WA
Terry Marshall, WA
Terry N & Sally M Thompson, WA
Terry S & Donna L Deahl, WA
Terry W & Edythe R Cottrell, WA
Terry W & Julie L Lee, WA
Thad Taylor, WA
Thea Mae Enright, OR
Thelma & Gene Neathamer, WA
Thelma Butzlaff, OR
Theodore Gibson, WA
Theodore Vandermey, WA
Theresa P. Webster, WA
Thomas & Ann Beaulieu, WA
Thomas & Kimmie Wilson, WA
Thomas & Lori Klobucar, WA
Thomas & Tess Alverson- Hollern, WA
Thomas (Trustee) Lindberg, OR
Thomas A & Diana M Loback, WA
Thomas A & Jamie L Floch, WA
Thomas C & Janice E Morris, WA
Thomas Detman, CO
Thomas E & Catherine A Mooney, WA
Thomas E & Teresa E Stone, WA
Thomas Gritzka, OR
Thomas H & Janice A Reid, WA
Thomas H Nelson, WA
Thomas Hardy & Marie A. Taylor, WA
Thomas J & Catherine W Rogers, WA
Thomas J Matson, WA
Thomas J Morraitis, WA
Thomas J. Abbe & Jolynne Leitzel, WA
Thomas Johnston, OR
Thomas L & Susanne S Harvey, WA
Thomas M & Heidi M Batten, WA
Thomas M & Rocchetta C Witte, WA
Thomas M DeSpain, OR
Thomas Mathews, OR
Thomas Morrison, OR
Thomas P & Glenna A Maskal, WA
Thomas P & Mary T Mathew, WA

Thomas P & Susan S Nieswander, WA
Thomas R & Julie A Hargan, WA
Thomas S Rogers, WA
Thomas V & Devi D Griswold, WA
Thomas V & Jane M Rowland, WA
Thomas W & Paula A Shoemaker, WA
Thomas W Grossi, WA
Thome Family Living Trust, Ted, WA
Thomson Trust, John D. & Joanne L. Thomson, Trustees, WA
Tiffany A & Marshal Spardo, WA
Tiffany Greer, WA
Tiffany Hedrick, WA
Tiffany P. Mendoza & Adam R. Trantina, WA
Tiffany S. Daly & Ronald F. Watts, WA
Tim & Bobbie Smith, WA
Tim & Diane Dorsey, WA
Tim & Susan Howard Ebling, WA
Tim Bero, OR
Tim C Barnes, OR
Tim J & Cathy L Harris, WA
Tim Thuston, TX
Timothy & Mary Ann Lindberg, WA
Timothy & Sharlene L Harbison, WA
Timothy & Susan Heath, WA
Timothy & Teresa Jenine Schlager Collins, WA
Timothy A Boullion, WA
Timothy Bradshaw, WA
Timothy D Kropf, WA
Timothy Gansneder, WA
Timothy J & Danette R StClair, WA
Timothy K & Julie A Johnson, WA
Timothy K Boyd, WA
Timothy P & Mary E Gray, WA
Timothy Paulsen & Michelle Pease-Paulsen, WA
Timothy Stanhope, WA
Timothy Szambelan, WA
Tina L Dixon & R Paul Stredwick, WA
Tina L Tricoli, WA
Tina Zimmer, WA
Toby S Peterson, WA
Todd & Michelle Maki, WA
Todd & Patricia Stuth, WA
Todd A & Lisa Peters, WA
Todd A & Lori J Dail, WA
Todd L & Tracy M Oman, WA
Todd W. & Carol A. Snyder, WA
Toji T & Eapen Anu Oommen, WA
Tom & Lorene Ehlers, WA
Tom Bender, OR

Individuals (cont'd)

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Tom Finch, CO
Tom Myers, OR
Tom Sawtell, OR
Toni R Burton, WA
Tony & Megan Navilio, WA
Tony Bennett, WA
Tony J Phillips, WA
Top Family Trust, WA
Topelagi Siva, WA
Torben & Marilyn Ferslov-Jensen, WA
Tracey Chapman, OR
Tracie A Jarratt, WA
Tracy Burns, WA
Tracy Davis, WA
Tracy S Jilek, WA
Travis Hayes, WA
Travis K M Winslow, WA
Travis R. & Tabatha T. Taylor Olson, WA
Travis Sessler, WA
Trent D & Vicki L Taylor, WA
Trent R Smith, Jensen G. R. 1977 Living Trust, WA
Trevor W Walstad, WA
Troy L Church, WA
Trula J Thompson, WA
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Tybalkt J Quale, WA
Tyler & Jacklyn Whitehouse, WA
Tyler E Ford, WA
Tyler R & Stephanie M Berry, WA
Tyron Lee, OR
Ubaldo Sanchez, OR
Uma Subramanian & Srinath Kannan, WA
V Paul & Carol H Buehler, WA
Vadim & Yana Bednaruk, WA
Valerie & Morris Hernandez, WA
Valerie Hauer, WA
Vamsi & Kurup Preeti Kuppa, MN
Vance Chad Pinson, WA
Vancell Shaw, WA
Vanessa Lee, WA
Vanita J Miller, OR
Varonica Koon, OR
Venetia A Runnion, WA
Veniamin & Alla Bidniy, WA
Vern W Forsberg, WA
Verne & Margaret Qualls, WA
Vernon H Crim, WA
Vernon Suggett, WA
Vernon W. Chandler & Jennifer M. Gilmon, WA
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Victor G & Judith E Adams, WA
Victor Phan Tran, WA
Victoria A Schmidt, WA
Victoria Dell, WA
Victoria J & John T Thrush, WA
Victoria Lowe, OR
Victoria Meier, OR
Vincent J & Angela Geglia, II, WA
Vincent Mustacich, WA
Vincent O & Dell M Reyes, WA
Viorel & Nicoleta Chita, WA
Virgie & Jimmy Bernabe, WA
Virgil & Leona M Baker, WA
Virgil C & Marlys M Harberts, WA
Virginia Allison, WA
Virginia D Merchant, WA
Virginia Gibbs, OR
Virginia Good & Thomas E. Vlahovich, WA
Vitaliy & Oksana Stryzheus, WA
Vladimir & Gurtovaya Razinkov, WA
W & C Rogers, WA
W T & Sheryl Jean Rogers, WA
W.A. & A.M. McNamara & Moskowitz-McNamara, WA
Waid G Easton, WA
Waite Living Trust, WA
Wallace D & Darlene K Keen, WA
Wallace N Soland, WA
Wallace W Weber, WA
Wallace W. Mattila, WA
Walter Aman, OR
Walter B., III Schroeder, OR
Walter D Austin, WA
Walter D Millo, WA
Walter H Johnson, WA
Walter L Blinde, OR
Walter M Thayer, WA
Walter R & Janet A Ivanoff, OR
Walter W & Rosetta J Kellogg, WA
Wanda Collins, WA
Warren & Juanita Beecroft, WA
Warren D Aikins, OR
Warren John West, OR
Warren Taylor, WA
Wayne & Sandra Wright, WA
Wayne & Sharon Rengen, WA
Wayne A & Cherie R Toso, WA

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Wayne E & DeGregory, Carol A Scardigli, WA
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Wayne R & Leslie R Osborn, WA
Wayne, Jr Radford, WA
Wendal H Kuecker, WA
Wendell H. Lovett, WA
Wen-Ying & Hao Hung, WA
Wesley & Christine Pellum, AZ
Wesley A Christianson, OR
Wesley P & Jackie K Haynes, WA
Wilford E Stipp, WA
Wilfred A Sundstrom, WA
William & Althea G Heagy, WA
William & Bella Cooper, WA
William & Cheryl Chapman, WA
William & Jodi Halfhill, WA
William & Kathleen Thias, WA
William & Kellie Araki, WA
William & Mayer, Sarah Zetterwall, WA
William & Melissa Nelson, WA
William & Sheilla C Hagedorn, WA
William & Trina Watters, WA
William & Victoria Zimmerman, WA
William A & Christine E Price, WA
William A Tover, WA
William A. Theiss, OR
William B. & Jody K. Sorenson, WA
William Berry Sr & Delina Ann Malcoh, WA
William Birka, WA
William Brown, OR
William C & Priscilla Grover, TX
William C Elliott, WA
William C Jr & Carolyn J Game, WA
William C JR Elliott, WA
William Conner, WA
William D & Janice L Thackeray, WA
William D & Lynn B Keys, WA
William Dickas, OR
William E & Jeanene M Speck, WA
William E & Marilyn M Walner, WA
William E & Mary C Favier, WA
William E. & Paulette S. Hartman, WA
William Earl & Barbara A Mitchell, WA
William Evans, WA
William G & Kathleen Hankins, WA
William G Whiteaker, WA
William Gefroc, OR

William H & Mary E Lord, WA
William H., Jr & Roberta Ingram, WA
William Harrison Monroe, WA
William Hart, OR
William Hundley, OR
William J & Lisa K Brill, WA
William J & Phyllis Campbell, WA
William J & Suzanne F Mortell, WA
William J & Tonya Pearson, WA
William J Ingerson, WA
William J Spagnola, WA
William L & Joann Wooda Heinz, WA
William L Baskett, WA
William M & Denise A Lettig, WA
William M & Peggy K Keough, WA
William Marshall, OR
William N & Silvia E Tester, WA
William N. & Patty L. Kaaland, WA
William N. & Patty L. Kaaland; & Jerry L. & J Lorna Allan, WA
William P & Kathleen S Brown, WA
William R & Rebecca S Wilder, WA
William R & Susan I Fox, WA
William R Banks, WA
William R ETAL Billups, WA
William Russell, NV
William S & Yon O Atkins, WA
William Schwall, OR
William Stricklin, CA
William Sunquist, WA
William Van Dyke, OR
William W & Angela L Peak, WA
William Weinhart, WA
Wilma Jean Bowen, WA
Winfred Coleman, WA
Wu-Shyung Lee, WA
Yadong Wang, WA
Yale Smith, WA
Yandle Moss, WA
Yeng & Chong Cha, WA
Ynette M Collins, WA
Yolanda Williamson & Paul W. Murray, WA
Yolande Witter, WA
Yu-Chin Jou, WA
Yuriy & Yuliya Mikhailchuk, WA
Yvette M Nichols, WA
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Zhorzh & Zhanna Godzyuk, WA

Individuals (cont'd)

Zhu Zhuo, OR

Zsuzsa Mayer, WA

APPENDIX B

CONSULTATION AND MEETINGS

Appendix B1: Coast Guard Documents

Appendix B2: Meetings Hosted by Oregon LNG and Northwest

Appendix B3: Summary of Tribal Consultations

APPENDIX B1

COAST GUARD DOCUMENTS



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May 23, 2007

Captain Patrick Gerrity
Commanding Officer
United States Coast Guard
Sector Portland
6767 North Basin Avenue
Portland, OR 97217

Dear Captain Gerrity,

As required by 33 Code of Federal Regulations 127.007, LNG Development Company, LLC dba. Oregon LNG hereby submits a Letter of Intent (LOI) to build a new Waterfront Facility Handling Liquefied Natural Gas on the Skipanon Peninsula in Warrenton, OR. The proposed site is within the jurisdiction of the Captain of the Port, Sector Portland Oregon. The Preliminary Waterway Suitability Assessment (PWSA), developed in accordance with the requirements of "Navigation and Vessel Inspection Circular No. 05-05 – Guidance on Assessing the Suitability of a Waterway for Liquefied Natural Gas (LNG) Marine Traffic" ("NVIC 05-05"), is submitted as an enclosure to this Letter of Intent.

Paragraph (d) of 33 CFR 127.007 requires each Letter of Intent to contain —

- (1) The name, address, and telephone number of the owner and operator;
- (2) The name, address, and telephone number of the facility;
- (3) The physical location of the facility;
- (4) A description of the facility;
- (5) The LHG or LNG vessels' characteristics and the frequency of LHG or LNG shipments to or from the facility; and
- (6) Charts showing waterway channels and identifying commercial, industrial, environmentally sensitive, and residential areas in and adjacent to the waterway used by the LHG or LNG vessels en route to the facility, within 25 kilometers (15.5 miles) of the facility.

Oregon LNG, which is headquartered at 8100 NE Parkway Drive, Suite 165, Vancouver, WA 98662, plans to develop, construct, and operate a liquefied natural gas ("LNG") receiving, storage, and regasification facility on the East Skipanon Peninsula (ESP), near the confluence of the Skipanon and the Columbia Rivers in Warrenton, Clatsop County, Oregon ("LNG Terminal"). Oregon LNG CEO is Mr. Peter Hansen (360-859-1100).

The proposed LNG Terminal would be located on the northern portion of the East Skipanon Peninsula at River Mile 11.5 (statute miles) of the Columbia River, within an approximately 96-acre parcel of land that is owned by the State of Oregon and leased to the Port of Astoria by the Oregon Department of State Lands. The 96-acre parcel of land is subleased to LNG Development Company, LLC by the Port of Astoria.

The LNG Terminal will include a pier with one LNG berth, LNG unloading equipment, an LNG storage facility consisting of three full-containment above ground 160,000 m³ LNG storage tanks, vaporization and vapor handling systems, a sendout system, and administrative, control and support buildings. The tanks will each have a primary inner container and a secondary outer container, and will be designed so that both the self-supporting inner container and the secondary container can independently contain the entire amount of the LNG product. The inner container will be made of 9% nickel alloy steel, and the outer container will be pre-stressed reinforced concrete. The annular space between the sidewalls of the inner and outer tanks will be insulated with a loose fill expanded perlite and a fiberglass blanket.

The LNG Terminal will be connected to the existing interstate pipeline system via a new interstate natural gas pipeline extending from the LNG Terminal. The terminal will be designed to berth and unload LNG tankers of up to 260,000 cubic meters (m³). Approximately two to three ships per week will call on the Terminal.

The proposed transit route for LNG vessels arriving at the proposed Terminal extends 21.5 miles from entry into U.S. Territorial Waters, twelve nautical miles offshore the coast of Oregon, through the mouth of the Columbia River, along the Desdemona Channel, and to the proposed Project Site at Skipanon, Warrenton, Oregon. Appendix A of the Preliminary Waterways Suitability Assessment (PWSA) (Enclosure #1) includes four (4) charts, which graphically portray the intended track line for LNG vessels to transit to the proposed LNG terminal on the Skipanon Peninsula, with the Sandia Zones of Concern applied the length of the intended transit. The charts also indicate high, medium and low population densities in the area of the proposed transit, critical infrastructure, and important structures such as schools, hospitals and large commercial buildings. Environmentally sensitive areas will be identified on these navigation charts as part of the Follow-on WSA.

I look forward to answering any questions that may develop as a result of your staff's review of this LOI and the accompanying Preliminary Waterway Suitability Assessment (PWSA). Once Oregon LNG has begun the Pre-Filing process with the Federal Energy Regulatory Commission (FERC), we will complete the Follow-on Waterways Suitability Assessment as required by NVIC 05-05.

Sincerely,



Peter Hansen, CEO
Oregon LNG

Enclosure 1: "Preliminary Waterways Suitability Assessment (PWSA) for the Proposed Skipanon LNG Receiving Terminal"

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
United States Coast Guard
Sector Portland

6767 N. Basin Avenue
Portland, Oregon 97217-3992
Phone: (503) 240-9374
Fax: (503) 240-9369
e-mail: Russell.A.Berg@uscg.mil

16611/OREGON LNG
April 24, 2009

Mr. Peter Hansen
Oregon LNG
8100 NE Parkway Dr. Suite 165
Vancouver, WA 98662

Dear Mr. Hansen:

Enclosed you will find a copy of the Letter of Recommendation (LOR) issued pursuant to 33 C.F.R. § 127.009 in response to your Letter of Intent (LOI) dated May 23, 2007 proposing to transport Liquefied Natural Gas (LNG) by ship to a proposed receiving terminal at Warrenton, Oregon. It conveys the Coast Guard's determination on the suitability of the Columbia River for LNG marine traffic as it relates to safety and security. An LOR Analysis and Supplemental LOR Analysis accompany the LOR. Under NVIC 05-08, the LOR Analysis replaced the Waterway Suitability Report (WSR) detailed in the previous NVIC, 05-05. As a point of clarity, the LOR Analysis is the same as the WSR. In addition to meeting the requirements of 33 C.F.R. § 127.009, this letter also fulfills the Coast Guard's commitment for providing information to the Federal Energy Regulatory Commission (FERC) under the Interagency Agreement signed in February 2004.

Should you feel aggrieved by this decision, you may request reconsideration pursuant to 33 C.F.R. § 127.015(a). For your information, any request for reconsideration must be submitted to me in writing, within 30 days of receipt of this letter. You may also request reconsideration in person if the written request would have an adverse impact on your operation.

If you have any questions, my point of contact is Mr. Russ Berg. He can be reached the above address, phone number and e-mail.

Sincerely,

A handwritten signature in black ink, appearing to read "F. G. Myer".

F. G. MYER
Captain, U. S. Coast Guard
Captain of the Port

Enclosures: (1) Letter of Recommendation
(2) Letter of Recommendation Analysis
(3) Supplemental Letter of Recommendation (SSI – not publicly releasable)

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
United States Coast Guard
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16611/OREGON LNG
April 24, 2009

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

LETTER OF RECOMMENDATION FOR OREGON LNG TERMINAL

Dear Ms. Bose:

This Letter of Recommendation (LOR) is issued pursuant to 33 C.F.R. § 127.009 in response to the Letter of Intent (LOI) submitted by Oregon LNG (Applicant) dated May 23, 2007 proposing to transport Liquefied Natural Gas (LNG) by ship to a proposed receiving terminal on the Skipanon Peninsula in Warrenton, Oregon. It conveys the Coast Guard's determination on the suitability of the Columbia River for LNG marine traffic as it relates to safety and security. In addition to meeting the requirements of 33 C.F.R. § 127.009, this letter also fulfills the Coast Guard's commitment for providing information to your agency under the Interagency Agreement signed in February 2004.

After reviewing the information in the Applicant's LOI and completing an evaluation of the waterway in consultation with a variety of local port stakeholders, I have determined that the applicable portions of the Columbia River and its approaches are not currently suitable, but could be made suitable for the type and frequency of LNG marine traffic associated with this project. My determination is based on a review of the information provided in accordance with 33 CFR 127.007(d)(3) through (d)(6) and in consideration of the items listed in 33 CFR 127.009(b) through (d)(6). The reasons leading to my determination are outlined below.

On April 24, 2009 I completed a review of the Applicant's Waterway Suitability Assessment (WSA) submitted in March 2008 by Halcrow, Inc. This review was conducted following the guidance provided in U.S. Coast Guard Navigation and Vessel Inspection Circular (NVIC) 05-08. The review focused on navigation safety and maritime security risks posed by LNG marine traffic associated with the proposed Oregon LNG project and the measures needed to responsibly manage these risks. During the review, the Coast Guard consulted with a variety of stakeholders including an *ad hoc* validation committee and the Area Maritime Security Committee. Following this review a LOR Analysis and Supplemental LOR Analysis (marked Sensitive Security Information (SSI)) were issued. These Analysis' identify the requirements, conditions and risk mitigation measures to ensure the safe movement of these vessels.

The Applicant's WSA includes risk management strategies and associated measures that were developed for the safe navigation and security at each maritime security level, and that if properly implemented, sufficiently mitigate the identified risks associated with LNG vessel traffic for the proposed facility. These risk mitigation measures and strategies have been documented in the enclosed LOR Analysis and Supplemental LOR Analysis (SSI). Based on my review and the full implementation by the Applicant of the measures outlined in their WSA, the LOR Analysis and Supplemental LOR Analysis, I have determined that the Columbia River

LETTER OF RECOMMENDATION FOR OREGON LNG TERMINAL

leading up to Oregon LNG could be suitable for the type and frequency of LNG marine traffic associated with this project.

While this letter has no enforcement status, the determinations, analysis, and ultimate recommendation as to the suitability of this waterway, as contained in this letter, would be referenced in concert with a Captain of the Port Order, should an LNG transit be attempted along this waterway without full implementation of the risk mitigation measures. Such an Order would be issued pursuant to my authority under the Ports and Waterways Safety Act of 1972, as amended by the Port and Tanker Safety Act of 1978, 33 U.S.C. § 1223, *et seq.*, among other authorities.

A copy of the LOR has been forwarded to the Applicant. Should the Applicant feel aggrieved by this decision, they may request reconsideration by me pursuant to 33 C.F.R. § 127.015(a). For your information, any request for reconsideration must be submitted in writing within 30 days of receipt of this letter. The Applicant may also request reconsideration in person if the written request would have an adverse impact on their operation.

If you have any questions, my point of contact is Mr. Russ Berg. He can be reached at the above address, phone number and e-mail.

Sincerely,


F. G. MYER
Captain, U. S. Coast Guard
Captain of the Port

Enclosures: (1) LOR Analysis
(2) Supplemental LOR Analysis (SSI – not publicly releasable)

Copy: Oregon LNG
Commandant, U. S. Coast Guard (CG-522, CG-541, CG-544)
Commander, Thirteenth Coast Guard District (dl, dp)
Commander, Coast Guard Pacific Area (Pp)
Coast Guard Maintenance and Logistics Command Pacific (sm)
Oregon Department of Energy
Oregon Department of Fish and Wildlife w/o SSI enclosure
Clatsop County Sheriff w/o SSI enclosure
Astoria Fire Department
Astoria Police Department
Warrenton Fire Department
Warrenton Police Department



16611/Oregon LNG
April 24, 2009

Ms. Kimberly Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

LETTER OF RECOMMENDATION (LOR) ANALYSIS FOR OREGON LNG

Dear Ms. Bose:

On April 24, 2009, the Coast Guard completed a review of the Waterway Suitability Assessment (WSA) for the proposed Oregon LNG receiving terminal submitted by Halcrow, Inc. on behalf of Oregon LNG in March of 2008. This review was conducted following the guidance provided in Navigation and Vessel Inspection Circular (NVIC) 05-08 of Dec 22, 2008. The review focused on the navigation safety and maritime security risks posed by LNG marine traffic, and the measures needed to responsibly manage these risks. During the review, the Coast Guard consulted a variety of stakeholders including state and local emergency responders, Marine Pilots, towing industry representatives, members of the Harbor Safety Committee, and the Area Maritime Security Committee.

Based upon this review, I have determined that the Columbia River and its approaches are not currently suitable, but could be made suitable for the type and frequency of LNG marine traffic associated with this project. Additional measures are necessary to responsibly manage the maritime safety and security risks. The proposed risk mitigation measures are found in section 5 and section 7 of the submitted WSA. This LOR analysis clarifies as necessary, and in some cases expands the recommendations needed to responsibly manage the navigation, safety and security risks. The specific measures, and the resources needed to implement them where applicable, are described below and in a separate supplementary analysis which is being provided to you under the terms and conditions established for handling Sensitive Security Information. The supplemental analysis also includes a copy of the Oregon LNG WSA.

The following is a list of specific risk mitigation measures that are recommended to responsibly manage the safety and security risks of this project. Details of each measure, including adequate support infrastructure, will need further development through the creation of an Emergency Response Plan as well as a Transit Management Plan that clearly spell out the roles, responsibilities, and specific procedures for the LNG vessel and all agencies responsible for security and safety during the operation.

Navigational Measures:

- **Safety/Security Zone:** A moving safety/security zone will be established around the LNG vessel extending 500-yards around the vessel but ending at the shoreline. No vessel may enter the safety/security zone without first obtaining permission from the Coast Guard Captain of the Port (COTP). The expectation is that the COTP's Representative will work with the Pilots and patrol assets to control traffic, and will allow vessels to transit the Safety/Security zone based on a case-by-case assessment conducted on scene. Escort resources will be used to contact and control vessel movements such that the LNG Carrier is protected.

April 24, 2009

While the vessel is moored at the facility there will be a 200 yard-security zone around the vessel. In addition, there will be a 50 yard security zone around the LNG Terminal when there is not a vessel at the dock.

Resource Gap: Resources required to enforce the safety/security zone are discussed under Security Measures in the supplemental analysis.

- Vessel Traffic Management Due to a narrow shipping channel and navigational hazards, it is recommended that LNG vessels meet the following additional traffic management measures:
 - A Transit Management Plan be developed in coordination with River Pilots, Bar Pilots, Escort Tug Operators, Security Assets and the Coast Guard prior to the first transit.
 - Due to the sudden weather changes on the Oregon coast and the relatively exposed location of the proposed terminal, a weather matrix must be a part of the recommended Transit Management Plan. This matrix would be prepared by the Applicant and would consider the entire duration of the planned port call by the LNG vessel. Where sustained winds are forecast to exceed 25 knots at any time during the port call, the LNG vessel would be required to remain at least 50 nautical miles from the coast. Additional considerations would include the weather conditions that require calling a Pilot to attend an LNG vessel that is at the terminal, when a Pilot must remain on board during the transfer of LNG to the facility, and the weather considerations that would call for a suspension of the transfer operation and the subsequent departure from port of the LNG vessel. Once prepared, this matrix would be submitted to the Coast Guard for review and inclusion in the overall Transit Management Plan. Additional simulation studies may be required to validate the proposed weather matrix.
 - The Transit Management Plan will be reviewed within six months of the first arrival, and followed by an annual review to ensure that it reflects the most current conditions and procedures.
 - For at least the first six months, that there be at least two Pilots aboard the LNG vessel throughout the transit.
 - For at least the first six months, that all transits be completed during daylight hours only, unless approved in advance by the COTP. After the first six months, it is anticipated that night transits may be recommended at certain times of the year to minimize disruptions to the waterway from the CR buoy to buoy 12. These times include the busiest fishing seasons from June through September.
 - The LNG Vessel board Pilots at least 5 miles seaward of the CR Buoy.
 - Overtaking by or of the LNG Vessel is prohibited without COTP approval.
 - Meeting situations of commercial vessels will be closely controlled. All meetings to be pre-arranged via Channel 13 VHF Bridge-to-Bridge and would be limited to the following areas:
 - Commercial piloted vessels avoid meeting in all turns (excluding fishing vessels under 200 feet).
 - Weather and bar conditions permitting, vessels may arrange for meetings to occur between the CR buoy and buoy 12, and between buoy 25 and buoy 27.
 - 24 hours prior to arrival, the Coast Guard, FBI, Bar Pilots and River Pilots, Escort Tug Masters, and other Escort assets would meet to coordinate inbound and outbound transit details. Subsequent coordination meetings or phone call confirmation would be required 4 hours prior to arrival and 1 hour prior to arrival.
 - Vessel transits and bar crossings would be coordinated so as to minimize conflicts with other deep draft vessels, recreational boaters, seasonal fisheries, and other Marine Events.

Resource Gaps: The recommended Vessel Transit Management Plan would be approved by the COTP at least 60 days prior to the first arrival.

- Vessel Traffic Information System: The current Vessel Traffic Information System on the Columbia River is limited to AIS receivers and a handful of cameras. In order to ensure vessel safety and security, this capability would need to be augmented with a robust camera system capable of monitoring the entire transit route. Due to weather concerns, these cameras would be equipped with detectors capable of monitoring vessel traffic in wind, rain and fog conditions common on the river.

Resource Gaps: Camera system with complete coverage of the entire transit route, capable of detecting vessel traffic in wind, rain, fog, and dark conditions. Access to the feed of this system should be granted to local, regional, state, and federal emergency responders.

- Tug Escort and Docking Assist : Due to the confined channel and high wind conditions, each LNG Carrier would be escorted by two tractor tugs, which would join the vessel as soon as safe to do so. Both tugs would be tethered at the direction of the Pilot. A third and fourth tractor tug would be required to assist with turning and mooring.
 - All four tugs will be at least 75 Ton Astern Bollard Pull or larger and equipped with Class 1 Fire Fighting equipment.
 - Based on the Maneuvering Simulation Study of January 3, 2008, LNG vessels would be limited to transiting during periods of 25 knots of wind or less. Additionally, extreme wind and weather conditions may require a third escort tug for any LNG vessel.
 - While unloading, all four tugs would remain on station to assist with emergency departure procedures. Two of the standby tugs would remain at the ready in the terminal basin, monitoring passing vessel traffic and immediately available to assist if maneuverability casualties of a passing vessel occurs. Whenever these tugs are utilized to assist a passing vessel, the Coast Guard would be notified as soon as it is safe to do so.
 - Tug escorts would be made in accordance with recognized industry standards, practices, or port guidelines that are developed specifically for "Tug Escorts."
 - "Best Achievable Protection" must be incorporated into tug and facility best practices. "Best Achievable Protection" means the highest level of protection which can be achieved through both the use of the best achievable technology and those manpower levels, training, procedures, and operational methods which provide the greatest degree of protection achievable.

Resource Gaps: Four 75 Bollard Ton Tractor Tugs with Class 1 Fire Fighting capability. Tug escort standards and practices would be developed and implemented for LNG Carriers operating on the Columbia River in concert with the Coast Guard Sector Portland Harbor Safety Committee. "Best Achievable Protection" will require review and concurrence of the Harbor Safety Committee.

- Navigational Aids: Any additional aids to navigation would be privately funded and maintained by the Applicant, and the location and permitting would be accomplished in accordance with current Coast Guard and Corps of Engineers procedures:

- PORTS (Physical Oceanographic Real-Time System) station at the terminal site contracted with NOAA to provide real time river level, current and WX data
 - A telemetric wind speed meter sited at the proposed terminal. In addition to providing the terminal and Operation Centers with current wind speeds, this meter would transmit data to the National Weather Service in accordance with NWS procedures.
 - Doppler docking station.
 - The available data for river current speeds at the terminal location is limited and unreliable. The installation of a turning basin by dredging the river bottom will impact the current data. As soon as practical after the dredging is complete and preferably before the final orientation of the pier face is completed, a river current study is recommended in the vicinity of the pier.
 - A quick-release mooring system is recommended to allow for vessel departures on short notice without the aid of additional personnel ashore.
 - Facility light shielding is recommended to preventing interfering with other Columbia River vessel traffic.
- LNG Carrier familiarization training for Pilots and Tug Operators: Prior to the arrival of the first vessel, joint simulator training is recommended for Pilots and Tug Operators identified as having responsibility for LNG traffic.
 - Dynamic Under Keel Clearance System: Installation of a real time system for data collection on under keel clearance is strongly recommended and will increase the ability to safely navigate the Columbia River Bar in varying conditions. The lack of accurate data, will limit the conditions under which a vessel may safely transit the bar. An immersion study of deep draft LNG vessels transiting the bar during summer and winter conditions is recommended within the first 12 months.

Resource Gap: Actual data on LNG tanker immersion.

Safety Measures:

- Vessel and Facility Inspections: LNG tankers and facilities are subject to (at a minimum) annual Coast Guard inspections to ensure compliance with federal and international safety, security and pollution regulations. In addition, LNG vessels and facilities are typically required to undergo a transfer monitor.

Resource Gap: Additional Coast Guard Facility and Vessel Inspectors.

- Shore-Side Fire-Fighting: Firefighting capability is extremely limited along the entire transit route. Shore side firefighting resources and training would need to be augmented in order to provide basic protection services to the facility as well as the communities along the transit route.

Resource Gap: To be determined in conjunction with local, regional, and state response agencies through the Emergency Response Planning process. Prior to the approval of the Emergency Response Plan (ERP), adequate cost sharing arrangements for project related training, equipment, maintenance, and staffing will need to be addressed for all of the communities impacted by the project.

- **In-Transit Fire-Fighting:** It is recommended that all crew members assigned to the escort and assist tugs be trained in the use and limitations of the installed Class I firefighting systems. Significant resource and jurisdictional issues exist in any marine fire incident on an underway vessel in the Columbia River. Current planning and preparedness efforts focus on a shore based response to a vessel moored at a facility.

Resource Gap: Development of a concrete plan for managing underway firefighting, including provisions for command and control of tactical fire fighting decisions as well as financial arrangements for provision of required training, mutual aid and identification of suitable locations for conducting fire fighting operations is critical to ensuring the safety of the port and securing the waterway.

- **Public Notification System and Procedures:** Adequate means to notify the public along the transit route, including ongoing public education campaigns, emergency notification systems (such as reverse 911 and siren systems), and adequate drills and training are recommended. Education programs must be tailored to meet the various needs of all river users, including commercial and recreational boaters, local businesses, local residents, and tourists.

Resource Gap: Current public notification capabilities vary greatly, and as part of the ERP process, a comprehensive notification system, including the deployment of associated equipment and training, will need to be developed in conjunction with local, regional, and state emergency responders.

- **Gas Detection Capability:** With the exception of the HAZMAT team in Astoria, gas detection capability is not resident and may not be available to initial responders along the transit route and at the facility. Emergency response personnel (both Police and Fire) require appropriate gas detection equipment, maintenance, and training.

Resource Gap: Gas Detectors, appropriate training, and maintenance infrastructure to be developed as part of the ERP process in conjunction with local, regional, and state emergency responders.

- **Communication Systems and Protocols:** Inter-agency communications pose a significant obstacle to joint operations. Deployment of a Regional Communication Plan and associated equipment is recommended to ensure that the facility, associated command centers, emergency responders, Coast Guard, Tug Operators, Escort Vessels, and Pilots can communicate in an effective manner. The system should provide for monitoring and communicating on both secure and unsecure (e.g. Ch. 16, 13, 22), as well as sending and receiving both speech and data.

Resource Gap: Operation specific and contingency communications plans and appropriate (intrinsically safe) equipment to coordinate both routine escorts and emergency operations. Equipment to transmit and receive both voice and data in a secure and unsecure environment. These gaps will be addressed as part of the ERP process in conjunction with local, regional, and state emergency responders.

Security Measures:

- **Security Boardings, Waterway Monitoring, Shoreline Patrols, and Vessel Escorts:** Extensive security measures will be recommended to provide adequate protection for LNG vessel while

LETTER OF RECOMMENDATION ANALYSIS FOR OREGON LNG

16611/OREGON LNG
April 24, 2009

transiting the Columbia River and moored at the facility. The details of these measures are Sensitive Security Information, and are outlined in a separate supplementary analysis.

- Facility Security Measures: LNG facilities are subject to the security regulations outlined in 33 CFR 105, and are required to submit a Facility Security Plan (FSP) for Coast Guard approval, and undergo (at a minimum) an annual Coast Guard security inspection. The facility should also develop a plan to provide for appropriate security measures from the start of construction through implementation of the Coast Guard approved FSP.

In the absence of the risk mitigation measures proposed by the Applicant as modified and clarified by the measures described in this analysis and the resources necessary to implement them, or in the absence of any changes to existing Coast Guard policy or guidance to lessen safety and security requirements, the Columbia River would be considered unsuitable for the LNG marine traffic associated with the Oregon LNG terminal. Due to the dynamic nature of the Columbia River, the applicant should be required to submit an annual update to the Waterway Suitability Assessment to the Coast Guard which will be revalidated by the COTP and AMSC. For further information, please contact Mr. Russ Berg of Coast Guard Sector Portland at (503) 240-9374.

Sincerely,



F. G. MYER
Captain, U.S. Coast Guard
Captain of the Port
Federal Maritime Security Coordinator

Copy: Oregon LNG
Thirteenth Coast Guard District (dp)
Coast Guard Pacific Area (Pp)
Commandant, Coast Guard Headquarter (CG-5222) (CG-741) (CG-544)
Commander, MLCPAC (sm) (le)

U.S. Department of
Homeland Security

United States
Coast Guard



Commandant
United States Coast Guard

2100 Second Street, S.W.
Washington, DC 20593-0001
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Phone: (202) 372-1410
Email: Patrick.W.Clark@uscg.mil

16475

MAY 1 2009

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First St., NE, Room 1A
Washington, DC 20426

Dear Secretary Bose:

This letter is sent to advise you of a serious concern we have regarding conditions in your agency's Commission Order related to LNG vessels which are intended for use in connection with the LNG import terminal proposed for operation on the Columbia River at Bradwood in Clatsop County, Oregon (Bradwood Landing). Specifically, we are concerned about the conditions regarding the design requirements and use of various fish screening devices for water intake systems on LNG vessels. The devices broadly fit into two general categories – those that would require some design, construction or equipment modification to the LNG vessel, and those that would lay alongside or near the vessel, rather than on the vessel itself. The systems that cause the greatest concern to the Coast Guard are those systems that require design and construction changes or equipment to be installed onto the LNG vessels, such as fish screens attached directly to the vessel or the installation of equipment and piping in the vessel to accommodate shore-side supplied screened water hook-ups.

As indicated in the Environmental Impact Statement for Bradwood Landing and as outlined in the 2004 Interagency Agreement signed by our agencies, the Coast Guard has a significant role and interest in the regulation of vessels, including safety, security, environmental protection, and design. The Coast Guard has a long history of developing design and engineering standards for U.S. vessels and for working with the international community through the International Maritime Organization to develop universal design and operational standards for U.S. and foreign vessels engaged in international trade.

With regard to the biological concerns expressed by the Oregon Department of Fish and Wildlife (ODFW) and the National Marine Fisheries Service (NMFS), we recognize that ship based water intake systems and other intake systems may have potential biological impacts. We appreciate that resource agencies wish to reduce any potential impacts that water intake systems on LNG carriers calling on this facility may have, but clearly their concerns must be balanced with the safety and security of the vessels and must be accomplished in such way that doesn't improperly place restrictions on vessels that are fully in compliance with international design standards. The Coast Guard does not question FERC's authority to condition the LNG facility's siting, construction, or design so as to mitigate potential impacts. However, neither the Commission

nor those other agencies has authority to exercise regulatory control (as a condition of the facility siting or operating permit or otherwise) over the LNG vessels calling at LNG facilities, including vessel operations, manning, equipment, design, or reporting. This includes imposing water intake design and screening requirements for vessels as part of the conditions in FERC's orders for proposed LNG facilities. Rather, regulation of such vessels is generally, and in many cases exclusively, reserved to the Coast Guard as a matter of law.

We would like to remind the Commission of some general limitations on agency control and responsibility related to this matter. Endangered Species Act (ESA) consultation requirements apply to actions over which an agency has discretionary involvement or control.¹ The ESA does not broaden an agency's authorities.² Accordingly, the effects analysis and any conditions imposed by the Commission should be addressed to activities by the Bradwood Landing facility which are subject to the Commission's jurisdiction.³

We agree with the remarks of dissenting FERC chairman Wellinhoff's statements that; 1) the evidence does not support a finding that the planned screening system will effectively mitigate the project's impact on sensitive aquatic resources to a less than significant level, 2) the application of fish screens on LNG carriers is a novel concept, 3) the use of fish screen technology on irrigation canals, industrial and municipal water supply pipes, and hydropower projects is not necessarily transferable to LNG carriers, and 4) the conceptual proposal for external screening for unmodified LNG carriers is particularly incomplete and uncertain.⁴ We also would note the Columbia River currently experiences approximately two thousand (2000) deep draft ships every year or four thousand (4000) river transits, as well as a plethora of tow boats and other commercial and recreational vessels that are not subject to the same stringent fish screening standards.

As previously noted, the Coast Guard also has concerns with other water intake systems, such as LNG vessels being retrofitted to use a water delivery system to receive screened water from the facility, the on-site permeable curtain system, and an electric fish barrier. Any system that requires a vessel to install new equipment or operate in a manner different from its approved design standard should be vetted by the Coast Guard to ensure the requirements are safe for the

¹ 16 U.S.C. § 1536(a)(2) (consultation required for "agency action"); 50 C.F.R. § 402.03 (consultation limited to actions subject to discretionary federal involvement or control); *Defenders of Wildlife v. Norton*, 257 F.Supp.2d 53, 67 (D.D.C. 2003) (discussing limitation on consultation where agency lacks control over third party action).

² *Se Platte River Whooping Crane Critical Habitat Maint. Trust v. FERC*, 962 F.2d 27, 34 (D.C. Cir. 1992) ("As the Commission explained, the statute directs agencies to "utilize their authorities" to carry out the ESA's objectives; it does not expand the powers conferred on an agency by its enabling act."); *American Forest & Paper Ass'n v. EPA*, 137 F.3d 291, 298-99 (5th Circuit. 1998); *Defenders of Wildlife v. Gutierrez*, 2007 WL 1004242 (D.D.C. Apr. 5, 2007).

³ See generally *Natural Resources Defense Council, Inc. v. United States Env'tl. Protection Agency*, 859 F.2d 156, 170 (D.C. Cir. 1988) (EPA prohibited from imposing permit conditions unrelated to the discharge of a pollutant); *Natural Resources Defense Council, Inc. v. United States Env't. Protection Agency*, 822 F.2d 104, 130 (D.C. Cir. 1987); *United States v. Mango*, 199 F.3d 85, 93 n.7 (2nd Cir. 1999) (Corps permits may not set conditions on "entire activity involving the discharge;" conditions must be related to the discharge); c.f. *Kokajko v. U.S.F.E.R.C.*, 873 F.2d 419 (1st Cir. 1989) ("Commission has been consistent in its refusal to exercise regulatory power over non-project land and facilities").

⁴ See page 94 of the Bradwood FERC Final Order

vessel and will be in compliance with the international standards. Furthermore, we believe the use of any of these untested and internationally unrecognized water intake systems may have negative consequences for vessel safety and security as well as adverse economic impacts. These include:

Reduction in cargo offload capacity: If the facility water delivery system or vessel fish screening system results in reduced ballast intake, the ship will need to compensate by slowing the offload rate thereby remaining in port for longer periods of time. This will potentially result in more cumulative effects on the environment;

Potential for power loss: Ship electrical power relies on water for generator cooling. If this is reduced or interrupted by any of these methods, a blackout would occur and remove critical systems such as cargo monitoring, fire fighting and lifesaving thereby placing the vessel and port community at greater risk of danger. Accordingly, any requirements that may affect critical vessel systems must be carefully evaluated and ultimately approved by authorities familiar with LNG vessel designs; namely recognized classification societies and vessel flag states;

Screen Sizes: The size of intake systems varies from ship to ship. Accordingly, only specific ships that are pre-designed and purpose built for accepting the proposed screening systems would be capable of calling at the facility. This excludes a large number of vessels from free market trade with the U.S.;

Emergency Disconnect: Vessels must be capable of departing the pier quickly in the event of an emergency. Pipelines connected directly to a vessel from a shore supplied water system would delay vessel departures and endanger the ship, her crew, and the port community. Therefore, at a minimum, any such system would need to be appropriately vetted and approved for such capability;

Emergency Offload: In the event that an emergency offload of LNG is needed from an LNG vessel, the LNG facility should be capable of receiving LNG without restrictions imposed on their water intake systems;

Firefighting: The vessel must have a sufficient water supply at all times for cooling as well as firefighting. The firefighting system is designed to deliver a water spray curtain based on a known intake rate from the sea and any potential obstruction restricting the water intake system could diminish the vessels overall ability to fight a fire thereby jeopardizing the vessel, and crew.

By agreeing with the recommendations of the ODFW and the NMFS, to require fish screens on water intake systems or for any new equipment requirements, your actions will create conflicts with international conventions. We believe this sends the wrong international message and establishes precedent which may create hardships for U.S. flagged vessel engaging in commercial trade in foreign waters. We believe such requirements may be more appropriately developed through official rulemaking and international agreements before being imposed as mandatory measures through a FERC order. For this and the reasons stated above, we strenuously object to the imposition of any requirements related to the design of vessel water intake systems that are

not based on sound science, prescribed by recognized classification society standards or U.S. and International rules, and have not been approved by a vessel's flag state.

We request that you remove and/or refrain from imposing any requirements related to vessel water intake systems on any LNG vessel until such time that there are U.S. and International regulations in place that address intake requirements on all vessels. Should FERC, the resource agencies and the applicant choose to study and develop voluntary alternative means to reduce or mitigate the potential impacts, we stand ready to assist in ensuring that any proposed measures would not create unsafe conditions for the vessel or impose inappropriate requirements on US or foreign flag vessels.

Please do not hesitate to contact us if you would like to discuss further. My point of contact for this matter is Commander Patrick W. Clark, Chief, Vessel and Facility Operating Standards Division. He may be reached at the number and email address listed above.

Sincerely,



J. G. LANTZ
U.S. Coast Guard
Director, Commercial Regulations and Standards
By direction

Copy: Commanding Officer, Sector Portland
Commander, Thirteenth Coast Guard District (p)
Commander, Pacific Area (p)
Commandant (CG-0941)
Commandant (CG-0942)
Commandant (CG-521)

APPENDIX B2

MEETINGS HOSTED BY OREGON LNG AND NORTHWEST

Table B2-1

Meetings Hosted by Oregon LNG and Northwest

Date	Location	Purpose	Attendees
Oregon LNG			
7/8/2008	Conference Call	Stream Crossing Subgroup Meeting	FERC, FWS, ODFW, Oregon LNG, CTGR
8/14/2008	Conference Call	Stream Crossing Subgroup Meeting	FERC, ODF, ODFW, CTGR, ODFW, NMFS, Oregon LNG, FWS
11/21/2008	Portland, OR	Habitat Categorization Subgroup	FERC, ODFW, Oregon LNG, ODF, FWS
12/2/2008	Portland, OR	Mitigation Subgroup	FERC, ODFW, CTGR, ODSL, FWS, ODLCD, EPA
12/2/2008	Portland, OR	Interagency Group	FERC, Coast Guard, CRITFC, ODFW, Oregon LNG, CTGR, ODSL, NMFS, Tillamook County Department of Community Development, ODLCD, ODE, City of Hillsboro, FWS
12/9/2008	Portland, OR	Fish Terminal Subgroup	FERC, Coast Guard, Oregon LNG, NMFS, ODFW, CRITFC
12/17/2008	Conference Call	Stream Crossing Subgroup	FERC, ODFW, ODSL, NMFS, FWS
1/16/2009	Portland, OR	Washington Agency	FERC, WA Ecology, WA ORA, WDFW, Wahkiakum County, ODLCD, CREST, USACE, ODE, EPA, NMFS, ODFW, WDNR
1/22/2009	Portland, OR	Stream Crossing Subgroup	FERC, FWS, ODFW, ODEQ, Oregon LNG, CTGR, ODSL, EPA, NMFS
2/3/2009	Portland, OR	Interagency Group	FERC, Oregon LNG, Coast Guard, EPA, NMFS, ODLCD, ODFW, ODE, CTGR, ODSL, ODF, FWS
2/3/2009	Portland, OR	Fish Terminal Subgroup	FERC, Oregon LNG, EPA, NMFS, ODFW
2/3/2009	Portland, OR	Dredging Subgroup	FERC, Oregon LNG, NMFS, EPA, ODFW
2/11/2009	Portland, OR	Fish Terminal Subgroup	FERC, Coast Guard, Oregon LNG, ODFW, NMFS
2/26/2009	Portland, OR	Stream Crossing Subgroup	FERC, ODFW, NMFS, ODF, FWS, EPA
3/20/2009	Portland, OR	Stream Crossing Subgroup	FERC, FWS, ODFW, Oregon LNG, CTGR, ODSL, EPA, NMFS, ODF, USACE
3/23/2009	Portland, OR	Dredging Subgroup	FERC, CRITFC, Oregon LNG, USACE, NMFS, ODLCD, WA Ecology
4/1/2009	Conference Call	Fish Terminal Subgroup	FERC, Oregon LNG, NMFS, ODFW
5/5/2009	Conference Call	Fish Terminal Subgroup	FERC, Oregon LNG, Coast Guard, NMFS, ODFW, WyEast Marine, CRITFC
5/7/2009	Portland, OR	Stream Crossing Subgroup	FERC, FWS, ODFW, Oregon LNG, CTGR, ODSL, NMFS, USACE
8/12/2009	Portland, OR	Mitigation Subgroup	FERC, Oregon LNG, ODFW, NMFS, FWS
9/9/2009	Portland, OR	Fish Terminal Subgroup	FERC, Oregon LNG, NMFS, Coast Guard, USACE, FWS, EPA, CTGR, ODFW, ODFW
10/7/2009	Portland, OR	Mitigation Subgroup	FERC, Oregon LNG, ODFW, Coast Guard, ODFW, CRITFC, WDFW, NMFS
2/9/2010	Portland, OR	Mitigation Subgroup	FERC, Oregon LNG, NMFS, FWS, USACE, EPA, ODFW, ODSL, CTGR
4/14/2011	Conference Call	Discuss ESA Section 7 Consultation Process	FERC, NMFS, Oregon LNG
9/5/2012	Portland, OR	Stream Crossing Subgroup	FERC, Oregon LNG, NMFS, EPA, USACE, FWS, ODSL, ORA, ODFW, Cowlitz County, WA UTC, WDOE, WA Ecology
9/6/2012	Portland, OR	Dredging Subgroup	FERC, Oregon LNG, EPA, USACE, NMFS, ODSL, ODLCD, ORA, WA Ecology

Table B2-1

Meetings Hosted by Oregon LNG and Northwest

Date	Location	Purpose	Attendees
10/23/2012	Columbia County, OR	Stream Crossing Subgroup	FERC, Oregon LNG, EPA, NMFS, USACE, FWS, ODFW, CTGR
10/30/2012	Cowlitz County, WA	Stream Crossing Subgroup	FERC, NMFS, WDFW, ORA, USACE, FWS, WDNR, NMFS
11/07/2012	Deer Island, Columbia County, OR	Stream Crossing Subgroup	FERC, WDFW, Dyno Nobel, USACE, ODFW, FWS
11/4/2013	Lacey, WA Vancouver, WA Conference Call	Washington Permit Applications	FERC, FWS, NMFS, USACE, WA Ecology, ORA, WSDOT, WDFW, WDNR, WA UTC, City of Woodland, Cowlitz County, Northwest
Northwest			
10/17/2012	Lacey, WA	Interagency Meeting	FERC, Northwest, USACE, NMFS, FWS
12/3/2013	Lacey, WA	JARPA Pre-application Meeting	FERC, Northwest, USACE, WA Ecology
4/21-25/2014	WA	Waterbody Crossing Site Review	FERC, Northwest, WA Ecology, WDFW, FWS, NMFS, WDNR
8/18-21/2014	WA	Wetland Crossing Site Review	FERC, Ecology, WDFW, Northwest
11/19/2014	Whatcom County, WA	Recreation and Conservation Areas of Interest Site Review	FERC, Northwest, Whatcom County Land Trust
Coast Guard	U.S. Coast Guard		
CRITFC	Columbia River Inter-Tribal Fish Commission		
CTGR	Confederated Tribes of Grand Ronde		
EPA	U.S. Environmental Protection Agency		
FERC	Federal Energy Regulatory Commission or HDR Inc. representing FERC		
FWS	U.S. Fish and Wildlife Service		
NMFS	National Marine Fisheries Service		
Northwest	Northwest Pipeline LLC		
ODE	Oregon Department of Energy		
ODEQ	Oregon Department of Environmental Quality		
ODF	Oregon Department of Forestry		
ODFW	Oregon Department of Fish and Wildlife		
ODLCD	Oregon Department of Land Conservation and Development		
ODSL	Oregon Department of State Lands		
ORA	Washington Governor's Office of Regulatory Assistance		
USACE	U.S. Army Corps of Engineers		
WA Ecology	Washington State Department of Ecology		
WA UTC	Washington Utilities and Transportation Commission		
WDFW	Washington State Department of Fish and Wildlife		
WDNR	Washington Department of Natural Resources		

APPENDIX B3

SUMMARY OF TRIBAL CONSULTATIONS

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
Affiliated Tribes of Northwest Indians		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Lynn Dennis.		No response to NOI filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Lynn Dennis.		No response to NOI filed with FERC.
Columbia River Inter-Tribal Fish Commission		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Olney Patt, Executive Director; Rob Lothrop; Julie Carter, Policy Analyst; Patti Howard, Water Quality Coordinator; and Jamie Pinkham.	Sent letter about LNG import project to CRITFC on June 28, 2007. Telephone contact on October 5, 2007. Meetings with CRITFC on November 5, 2007, and in August 2008.	No response to NOI filed with FERC.
Sent NOI for export project issued September 24, 2012.	Sent letter on May 16, 2012, to Paul Lumley, Executive Director of CRITFC, about the export project and request for information.	No response to NOI filed with FERC. No comments on export project filed with FERC.
	Sent copy of cultural resources survey report to Paul Lumley on August 12, 2013.	No comments on report filed with FERC.
Chehalis Confederated Tribes		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o David Burnett, Chair.		No response to NOI filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o David Burnett, Chair; Nancy Romero, Cultural Resources; and Mark White, Natural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to David Burnett, Chair.		No response to letter filed with FERC.
Chinook Nation		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Gary Johnson, Chair.		No response to NOI filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Ray Gardner, Chair.		No response to NOI filed with FERC.
Clatsop-Nehalem Confederated Tribes		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Joseph Scovell.		No response to NOI filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Joseph Scovell		No response to NOI filed with FERC.

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
Cow Creek Band of Umpqua Tribe of Indians		
FERC staff met with representatives of Cow Creek Band on January 24, 2008.		
Cowlitz Indian Tribe		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o John Barnett, Chair; Ted Sprague, President Economic Council; and Mike Iyall, Natural Resource Director.		No response to NOI filed with FERC.
Sent letter about LNG import project on October 22, 2007 to John Barnett, Chair		No response to letter filed with FERC.
	Sent letter on May 16, 2012, to Dave Burlingame, Cultural Resources Director of Cowlitz Tribe, about the export project and request for information.	No response to the Oregon LNG letter filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o John Barnett, Chair; Mike Iyall, Natural Resources; and Ed Arthur, Cultural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to William Iyall, Chair.		Cowlitz Tribe sent FERC an email on April 24, 2013 stating that the project is within the tribe's area of concern and an Inadvertent Discovery Plan should be part of the permit.
	Sent copy of cultural resources survey report to Cowlitz tribe on August 12, 2013.	No comments on report filed with FERC.
	Sent email on August 12, 2013 informing tribe of opportunity to participate in ethnographic studies.	No response filed with FERC.
Confederated Tribes of the Grand Ronde Community		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Cheryle Kennedy, Chair, and Khani Schultz, Cultural Resources.	Sent letters on June 28, 2007 and September 10, 2007 about LNG import project.	In response to NOI, Grand Ronde Tribes requested meetings with FERC staff.
	Met with Grand Ronde Tribes on February 26 and May 30, 2008.	Grand Ronde Tribes filed for intervenor status on February 12, 2009.
	Sent Grand Ronde Tribes copy of its draft Resource Report 4 on February 13, 2008.	Grand Ronde Tribes sent February 2, 2009 email to Oregon LNG stating tribe had no comments on survey report.
Sent letter about LNG import project on October 22, 2007 to Cheryle Kennedy, Chair		No response to letter filed with FERC.
FERC staff met with Grand Ronde representatives on January 24, February 25, and March 31, 2008.	Participated in meeting with FERC staff and Grand Ronde Tribes on January 24, 2008, February 25, 2008, and March 31, 2008.	Grand Ronde Tribes requested ethnographic study, and monitors for survey in Woodburn area.

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
Sent NOI for export project issued September 24, 2012 c/o Brandy Humphreis, Khanai Shultz, Michael Karnesh, Eirik Thorsgard, and David Lewis.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Reynold Leno, Chair.		In response to the letter, the Grand Ronde Tribes sent an email to FERC staff on January 18, 2013 requesting a copy of the cultural resources survey report.
	Sent letter on May 16, 2012, to Eirik Thorsgard, Cultural Resources Director for Grand Ronde Tribes, about the export project and request for information.	No comments on export project filed with FERC.
	Sent copy of cultural resources survey report to Eirik Thorsgard on August 12, 2013.	No comments on report filed with FERC.
	On August 12, 2013, called Eirik Thorsgard to inform tribe of the opportunity to participate in ethnographic studies.	No response filed with FERC.
Kikiulus Indian Tribe		
Sent NOI for export project issued September 24, 2012 c/o Kurt Weinreich, Cultural Resources.		No response to NOI filed with FERC.
Lummi Nation		
Sent NOI for export project issued September 24, 2012 c/o Merle Jefferson, Natural Resources, and Lena Tso, Cultural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Clifford Cultee, Chair.		No response to letter filed with FERC.
Muckelshoot Tribe		
Sent NOI for export project issued September 24, 2012 c/o Virginia Cross, Chair; Karen Walter, Habitat Program; and Melissa Calvert, Preservation Department.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Virginia Cross, Chair.		No response to letter filed with FERC.
Nez Perce Tribe		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Rebecca Miles, Chair; Gary Green, Executive Committee; Randall Minthorn, Executive Committee; and Ryan Sudbury, Attorney.	Sent letter to Nez Perce Tribe on March 12, 2008.	No response to NOI filed with FERC.
Sent letter about LNG import project on October 22, 2007 to Samuel Penny, Executive Committee.		No response to letter filed with FERC.

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
<p>Sent NOI for export project issued September 24, 2012 c/o Brooklyn Baptiste, Chair, and Ryan Sudbury, Legal</p> <p>Sent letter about export project on January 16, 2013 to Silas Whitman, Chair.</p>	<p>Sent letter on May 16, 2012, to Vera Sonneck, Cultural Resources Director for Nez Perce Tribe, about the export project and request for information.</p> <p>Sent copy of cultural resources survey report to Vera Sonneck on August 12, 2013.</p>	<p>No response to Oregon LNG about export project filed with FERC.</p> <p>No response to NOI filed with FERC.</p> <p>No response to letter filed with FERC.</p> <p>No comments on report filed with FERC.</p>
<p>Nisqually Tribe</p> <p>Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Dorian Sanchez, Chair, and Thor Hoyte.</p> <p>Sent NOI for export project issued September 24, 2012 c/o Dorian Sanchez, Chair.</p> <p>Sent letter about export project on January 16, 2013 to Cynthia Iyall, Chair</p>		<p>No response to NOI filed with FERC.</p> <p>No response to NOI filed with FERC.</p> <p>No response to letter filed with FERC.</p>
<p>Nooksack Tribe</p> <p>Sent NOI for export project issued September 24, 2012 c/o Robert Kelly, Chair; Greg MacWilliams, Natural Resources; and George Swanaset, Cultural Resources</p> <p>Sent letter about export project on January 16, 2013 to Robert Kelly, Chair</p>		<p>No response to NOI filed with FERC.</p> <p>No response to letter filed with FERC.</p>
<p>Puyallup Tribe</p> <p>Sent NOI for export project issued September 24, 2012 c/o Herman Dillon, Chair; Brandon Reynon, Tribal Archaeologist; Joseph Anderson, Director Fisheries Department; and Bill Sullivan, Natural Resources.</p> <p>Sent letter about export project on January 16, 2013 to Herman Dillon, Chair.</p>		<p>In October 9, 2012 email to FERC staff, Puyallup Tribe requested additional information about the Washington Expansion Project (WEP) (see table B3-2 for WEP consultation).</p> <p>No response to letter filed with FERC.</p>
<p>Samish Nation</p> <p>Sent NOI for export project issued September 24, 2012 c/o Tom Wooten, Chair; Jacquelyn Ferry, Cultural Resources; and Christine Woodward, Natural Resources.</p> <p>Sent letter about export project on January 16, 2013 to Tom Wooten, Chair.</p>		<p>Samish Nation sent email to FERC staff on October 8, 2012, requesting copy of cultural resources report for Skagit County, Washington (WEP).</p> <p>Samish Nation sent email to FERC staff on February 4, 2013 again requesting the survey report (see table B3-2 for WEP consultation).</p>

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
Sauk-Suiattle Tribe		
Sent NOI for export project issued September 24, 2012 c/o Norma Joseph, Chair; Dora Dailey, Cultural Resources; and Richard Wolten, Natural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Norma Joseph, Chair.		No response to letter filed with FERC.
Shoalwater Bay Tribe		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Charlene Nelson, Chair.		No response to NOI filed with FERC.
Sent letter about LNG import project on October 22, 2007 to Charlene Nelson, Chair.		No response to letter filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Charlene Nelson, Chair.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Charlene Nelson, Chair.		No response to letter filed with FERC.
	Sent copy of cultural resources survey report to Earl Davis, Cultural Resources for Shoalwater Bay Tribe, on August 12, 2013.	No comments on report filed with FERC.
	Sent email on August 12, 2013 informing tribe of opportunity to participate in ethnographic studies.	No response filed with FERC.
Confederated Tribes of Siletz Indians		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Delores Pigsley, Chair, and Robert Kentta, Cultural Resources.	Sent letters about LNG import project on June 28, 2007 and September 10, 2007.	In response to NOI, Siletz Tribes requested a meeting with FERC staff.
Sent letter about LNG import project on October 23, 2007 to Delores Pigsley, Chair		No response to letter filed with FERC.
FERC staff met with Siletz representatives on January 24, 2008.	Oregon LNG participated in January 24, 2008 meeting between FERC staff and Siletz Tribes.	Siletz Tribes requested ethnographic study.
	Sent letter on May 16, 2012, to Robert Kentta, Cultural Resources Director, about the export project and request for information.	No comments on export project filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Delores Pigsley, Chair, and Robert Kentta, Cultural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Delores Pigsley, Chair.		No response to letter filed with FERC.
	Sent copy of cultural resources survey report to Robert Kentta on August 12, 2013.	No comments on report filed with FERC.

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
	Sent email on August 12, 2013 informing tribe of opportunity to participate in ethnographic studies.	No response filed with FERC.
<p>Snoqualmie Tribe</p> <p>Sent NOI for export project issued September 24, 2012 c/o Shelley Burch, Chair; Steven Mullen Moses, Director Archaeology & Historic Preservation; and Cindy Spiry, Natural Resources.</p>		No response to NOI filed with FERC.
<p>Sent letter about export project on January 16, 2013 to Shelly Burch, Chair.</p>		No response to letter filed with FERC.
<p>Stillaguamish Tribe</p> <p>Sent NOI for export project issued September 24, 2012 c/o Shawn Yanity, Chair; Tara Duff, Cultural Resources; Jay Harvey, Cultural Resources; and Pat Stevenson, Natural Resources.</p>		No response to NOI filed with FERC.
<p>Sent letter about export project on January 16, 2013 to Shawn Yanity, Chair.</p>		No response to letter filed with FERC.
<p>Suquamish Indian Tribe</p>		
<p>Sent NOI for export project issued September 24, 2012 c/o Leonard Forsman, Chair.</p>		No response to NOI filed with FERC.
<p>Sent letter about export project on January 16, 2013 to Leonard Forsman, Chair.</p>		No response to letter filed with FERC.
<p>Swinomish Tribal Community</p>		
<p>Sent NOI for export project issued September 24, 2012 c/o M. Brian Cladoosby, Chair, and Charles O'Hara, Director Planning & Environment.</p>		No response to NOI filed with FERC.
<p>Sent letter about export project on January 16, 2013 to Brian Cladoosby, Chair.</p>		In letter to FERC dated February 13, 2013, the Swinomish Tribal Community indicated that it would participate in the Pre-filing process to the extent practicable.
<p>Tulalip Tribes of the Tulalip Reservation</p>		
<p>Sent NOI for export project issued September 24, 2012 c/o Melvin Sheldon, Chair, and Hank Gobin, Director Cultural Center.</p>		No response to NOI filed with FERC.
<p>Sent letter about export project on January 16, 2013 to Melvin Sheldon, Chair.</p>		No response to letter filed with FERC.

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
Confederated Tribes of the Umatilla Indian Reservation		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Antone Minthorne, Chair; Carey Miller, THPO; Bruce Zimmerman; and Carl Merkle, Salmon Policy Analyst		No response to NOI filed with FERC.
Sent letter about LNG import project on October 23, 2007 to Antoine Minthorn, Chair.		No response to letter filed with FERC.
	Sent letter on May 16, 2012, to Teara Farrow, Cultural Resources Director, about the export project and request for information.	No comments on export project filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Eric Quaempti, Board of Trustees; Carey Miller; and Teara Farrow, Cultural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Les Minthorn, Chair.		No response to letter filed with FERC.
	Sent copy of cultural resources survey report to Catherine Dickson on August 12, 2013.	No comments on report filed with FERC.
Upper Skagit Indian Tribe		
Sent NOI for export project issued September 24, 2012 c/o Jennifer Washington, Chair.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Jennifer Washington, Chair		No response to letter filed with FERC.
Confederated Tribes of the Warm Springs Reservation		
Sent NOI for Oregon LNG import project issued August 24, 2007 c/o Ron Suppah, Chair, and Sally Bird, Cultural Resources.	Sent letters about import project on June 28, 2007 and September 10, 2007. CH2M HILL met with Warm Springs Tribes on February 26, 2008.	In response to the NOI, Warm Springs Tribes requested a meeting.
Sent letter about LNG import project on October 22, 2007 to Ron Suppah, Chair		No response to letter filed with FERC.
FERC staff met with Warm Springs representatives on January 24, February 25, and March 31, 2008.	Participated in meeting with FERC staff and Warm Springs Tribes on January 24, 2008, February 25, 2008, and March 31, 2008.	Warm Springs Tribes requested ethnographic study.
	Sent letter on May 16, 2012, to Sally Bird, Cultural Resources Director, about the export project and request for information.	No comments on export project filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Ron Suppah, Chair, and Sally Bird, Cultural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Stanley Smith, Chair		No response to letter filed with FERC.
	Sent copy of cultural resources survey report to Sally Bird on August 12, 2013.	No comments on report filed with FERC.

Table B3-1

Summary of Tribal Consultations for the Oregon LNG Project

Native Americans or Tribes Contacted by FERC	Native Americans or Tribes Contacted by Oregon LNG	Responses
Confederated Tribes and Bands of the Yakama Nation	On August 12, 2013, called Sally Bird to inform tribe of the opportunity to participate in ethnographic studies.	No response filed with FERC.
Oregon LNG Project NOI issued August 24, 2007 c/o Jerry Meninick, Chair.		No response to NOI filed with FERC.
Sent letter about LNG import project on October 22, 2007 to Lavina Washines, Chair.		No response to letter filed with FERC.
	Sent letter on May 16, 2012, to Johnson Mennick, Cultural Resources Director, about the export project and request for information.	No comments on export project filed with FERC.
Sent NOI for export project issued September 24, 2012 c/o Jerry Mennick, Chair; Johnson Mennick, Cultural Resources; and Philip Rigdon, Natural Resources.		No response to NOI filed with FERC.
Sent letter about export project on January 16, 2013 to Harry Smiskin, Chair.		No response to letter filed with FERC.
	Sent copy of cultural resources survey report to Johnson Mennick on August 12, 2013.	No comments on report filed with FERC.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Affiliated Tribes of Northwest Indians		
Sent NOI for WEP issued September 24, 2012 c/o Lynn Dennis.		No response to NOI filed with FERC.
Columbia River Inter-Tribal Fish Commission		
Sent NOI for WEP issued September 24, 2012.		No response to NOI filed with FERC.
Chehalis Confederated Tribes		
Sent NOI for WEP issued September 24, 2012 c/o David Burnett, Chair; Nancy Romero, Cultural Resources; and Mark White, Natural Resources.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Chair Burnett describing WEP and including its cultural resources research design.	No response to letter filed with the FERC.
Sent letter about WEP on January 16, 2013 to David Burnett, Chair.		No response to letter filed with FERC.
	Sent cultural resource survey report (McClintock et al. June 2013) on September 24, 2013 to Richard Bellon, Cultural Resources and Mark White, Natural Resources.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.
Chinook Nation		
Sent NOI for WEP issued September 24, 2012 c/o Ray Gardner, Chair.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Chair Gardner describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
	Sent cultural resource survey report, (McClintock et al. June 2013) on September 24, 2013 to Ray Gardner, Chair, and Tony Johnson, Cultural Resources.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Clatsop-Nehalem Confederated Tribes		
Sent NOI for WEP issued September 24, 2012 c/o Joseph Scovell		No response to NOI filed with FERC.
Cowlitz Indian Tribe		
Sent NOI for WEP issued September 24, 2012 c/o John Barnett, Chair; Mike Iyall, Natural Resources; and Ed Arthur, Cultural Resources.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Chair Iyall describing the WEP and including its cultural resources research design.	No response to letter filed with FERC
Sent letter about WEP on January 16, 2013 to William Iyall, Chair.		The Cowlitz Indian Tribe sent FERC an email on April 24, 2013 stating that the project is within the tribe's area of concern and provided recommended language regarding the Inadvertent Discovery Plan.
	Sent cultural resource report (McClintock et al June 2013) on September 24, 2013 to Ed Arthur and Dave Burlingame of Cultural Resources, and Taylor Aalvik of Natural Resources.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.
Duwamish Tribe		
	Sent revised addendum survey report on September 3, 2014.	No comments on report filed with FERC.
Confederated Tribes of the Grand Ronde Community		
Sent NOI for WEP issued September 24, 2012 c/o Brandy Humphries, Khanai Shultz, Michael Karnesh, Eirik Thorsgard, and David Lewis.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Chair Kennedy describing WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Reynold Leno, Chair.		In response to the letter, the Grand Ronde Tribes sent an email to FERC staff on January 18, 2013 requesting a copy of the cultural resources survey report for Oregon LNG Project (see table B3-1 for Oregon LNG Project consultation).
	Sent cultural resource survey report (McClintock et al. June 2013) to David Lewis and Eirik Thorsgard, Cultural Resources, on September 24, 2013.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Kikiallus Indian Tribe		
Sent NOI for WEP issued September 24, 2012 c/o Kurt Weinreich, Cultural Resources.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Administrator Weinreich describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
	Sent cultural resource survey report (McClintock et al. June 2013) to Administrator Weinreich on September 24, 2013.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014	No comments on report filed with FERC.
Lummi Nation		
Sent NOI for WEP issued September 24, 2012 c/o Merle Jefferson, Natural Resources, and Lena Tso, Cultural Resources.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Chair Cultee describing WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Clifford Cultee, Chair.		No response to letter filed with FERC.
	Sent cultural resource survey report (McClintock et al. June 2013) to Lena Tso, Cultural Resources, and Merle Jefferson, Natural Resources, on September 24, 2013.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014	No comments on report filed with FERC.
Muckleshoot Tribe		
Sent NOI for WEP issued September 24, 2012 c/o Virginia Cross, Chair; Karen Walter, Habitat Program; and Melissa Calvert, Preservation Department.		In November 7, 2012 letter, the Muckleshoot Indian Tribe Fisheries Division Habitat Program provided comments and requested that FERC work directly with the Muckleshoot Indian Tribe to determine potential impacts on fisheries and riparian areas. The Tribe requested that copies of the Draft EIS be sent to three departments at the Muckleshoot Indian Tribe: Fisheries, Cultural/Preservation, and Planning.
	Sent letter on September 28, 2012 to Chair Cross describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Virginia Cross, Chair.		No response to letter filed with FERC.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Nez Perce Tribe	Sent cultural resource survey report (McClintock et al. June 2013) to Laura Murphy, Cultural Resources, and Karen Walter, Natural Resources, on September 24, 2013.	No comments on report filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Brooklyn Baptiste, Chair, and Ryan Sudbury, Legal	Sent revised addendum survey report on September 3, 2014	No comments on report filed with FERC.
Sent letter about WEP on January 16, 2013 to Silas Whitman, Chair.		No response to NOI filed with FERC.
Nisqually Tribe		No response to letter filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Dorian Sanchez, Chair.		No response to NOI filed with FERC.
	Sent letter on September 28, 2012 to Chair Iyall describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Cynthia Iyall, Chair		No response to letter filed with FERC.
	Sent cultural resource survey report (McClintock et al. June 2013) to Joe Kalama and Fabio Apolito, Cultural Resources, and David Troutt, Natural Resources, on September 24, 2013.	No comments on report filed with FERC.
	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014	In September 8, 2014 letter, the Nisqually Indian Tribe stated that it had reviewed the report and had no further information or concerns at this time, but would want to be informed if there are any inadvertent discoveries of archaeological resources or human remains.
Nooksack Tribe		No response to NOI filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Robert Kelly, Chair; Greg MacWilliams, Natural Resources; and George Swanaset, Cultural Resources		No response to letter filed with FERC.
	Sent letter on September 28, 2012 to Chair Kelly describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Robert Kelly, Chair		No comments on report filed with FERC.
	Sent cultural resource survey report (McClintock et al. June 2013) to George Swanaset, Cultural Resources, and Gary MacWilliams and Jeffery Thomas, Natural Resources, on September 24, 2013.	

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Puyallup Tribe	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Herman Dillon, Chair; Brandon Reynon, Tribal Archaeologist; Joseph Anderson, Director Fisheries Department; and Bill Sullivan, Natural Resources.	Sent letter on September 28, 2012 to Chair Dillon describing the WEP and including its cultural resources research design.	In an October 9, 2012 email to FERC staff, the Puyallup Tribe requested additional information regarding the WEP impacts on the Puyallup Tribe's usual and accustomed area.
Sent letter about WEP on January 16, 2013 to Herman Dillon, Chair.	Sent cultural resource survey report (McClintock et al. June 2013) to Bill Sullivan, Natural Resources, on September 24, 2013.	No response to letter filed with FERC.
Samish Nation	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No response to letter filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Tom Wooten, Chair; Jacquelyn Ferry, Cultural Resources; and Christine Woodward, Natural Resources.	Sent letter on September 28, 2012 to Chair Wooten describing the WEP and including its cultural resources research design.	No comments on report filed with FERC.
Sent letter about WEP on January 16, 2013 to Tom Wooten, Chair.	Sent cultural resource survey report (McClintock et al. June 2013) to Jacky Ferry, Cultural Resources, and Christine Woodward, Natural Resources, on September 24, 2013.	No comments on report filed with FERC.
Sauk-Suiattle Tribe	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	Samish Nation sent an email to FERC staff on October 8, 2012, requesting a copy of the cultural resources report for Skagit County, Washington.
Sent NOI for WEP issued September 24, 2012 c/o Norma Joseph, Chair; Dora Dailey, Cultural Resources; and Richard Wolten, Natural Resources.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Tom Wooten, Chair.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	Samish Nation sent an email to FERC staff on February 4, 2013 again requesting a copy of the survey report.
Sent cultural resource survey report (McClintock et al. June 2013) to Jacky Ferry, Cultural Resources, and Christine Woodward, Natural Resources, on September 24, 2013.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.
Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	In September 4, 2014 and September 18, 2014 emails to Northwest, Samish Nation stated it was not interested in consulting on the project,

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Sent letter about WEP on January 16, 2013 to Norma Joseph, Chair.	Sent letter on September 28, 2012 to Chair Hoffman describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
Shoalwater Bay Tribe	Sent cultural resource survey report (McClintock et al. June 2013) to Norma Joseph, Cultural Resources, and Richard Wolten, Natural Resources, on September 24, 2013. Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No response to letter filed with FERC. No comments on report filed with FERC. No comments on report filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Charlene Nelson, Chair.	Sent letter on September 28, 2012 to Chair Nelson describing the WEP and including its cultural resources research design.	No response to NOI filed with FERC.
Sent letter about WEP on January 16, 2013 to Charlene Nelson, Chair.	Sent cultural resource survey report (McClintock et al. June 2013) to Earl Davis and Tony Johnson, Cultural Resources, and Gary Burns, Natural Resources, on September 24, 2013. Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No response to letter filed with FERC. No comments on report filed with FERC. No comments on report filed with FERC.
Confederated Tribes of Siletz Indians	Sent NOI for WEP issued September 24, 2012 c/o Delores Pigsley, Chair, and Robert Kentta, Cultural Resources.	No response to NOI filed with FERC.
Sent letter about WEP on January 16, 2013 to Delores Pigsley, Chair.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No response to letter filed with FERC.
Snohomish Tribe	Sent NOI for WEP issued September 24, 2012 c/o Shelley Burch, Chair; Steven Mullen Moses, Director Archaeology & Historic Preservation; and Cindy Spiry, Natural Resources. Sent letter on September 28, 2012 to Chair Burch describing the WEP and including its cultural resources research design.	No response to NOI filed with FERC. Snoqualmie Indian Tribe sent an email to Northwest on October 18, 2012, requesting more information about the project and maps.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Sent letter about WEP on January 16, 2013 to Shelly Burch, Chair.		No response to letter filed with FERC.
	Sent cultural resource survey report (McClintock et al. June 2013) to Stephen Mullen-Moses, Cultural Resources, and Cindy Spiry, Natural Resources, on September 24, 2013.	No comments on report filed with FERC.
Steilacoom Tribe	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014	No comments on report filed with FERC.
	Sent letter on September 28, 2012 to Chair Marshall describing the WEP and including its cultural resource research design. .	No response to letter filed with FERC.
Stillaguamish Tribe	Sent cultural resource survey report (McClintock et al. June 2013) to Danny Marshall, Chair, on September 24, 2013.	No comments on report filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Shawn Yanity, Chair; Tara Duff, Cultural Resources; Jay Harvey, Cultural Resources; and Pat Stevenson, Natural Resources.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014	No comments on report filed with FERC.
	Sent letter on September 28, 2012 to Chair Yanity describing WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Shawn Yanity, Chair.		No response to letter filed with FERC.
	Sent electronic copies of the pre-filing versions of Resource Reports 1 and 4 to Kerry Lyste on February 15, 2013.	No comments filed with the FERC.
Suquamish Indian Tribe	Sent cultural resource survey report (McClintock et al. June 2013) to Jay Harvey, Cultural Resources, and Pat Stevenson, Natural Resources, on September 24, 2013.	No comments on report filed with FERC.
Sent NOI for WEP issued September 24, 2012 c/o Leonard Forsman, Chair.	Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC.
	Sent letter on September 28, 2012 to Chair Forsman describing the WEP and including its cultural resources research design.	No response to letter filed with FERC.
Sent letter about WEP on January 16, 2013 to Leonard Forsman, Chair.		No response to letter filed with FERC.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
Swinomish Tribal Community Sent NOI for WEP issued September 24, 2012 c/o M. Brian Cladoosby, Chair, and Charles O'Hara, Director Planning & Environment.	Sent cultural resource survey report (McClintock et al. June 2013) to Dennis Lewarch, Cultural Resources, on September 24, 2013. Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC. No comments on report filed with FERC.
Sent letter about WEP on January 16, 2013 to Brian Cladoosby, Chair.	Sent letter on September 28, 2012 to Chair Cladoosby describing the WEP and including its cultural resources research design.	No response to NOI filed with FERC. No response to letter filed with FERC.
Tulalip Tribes of the Tulalip Reservation Sent NOI for WEP issued September 24, 2012 c/o Melvin Sheldon, Chair, and Hank Gobin, Director Cultural Center.	Sent cultural resource survey report (McClintock et al. June 2013) to Larry Campbell, Cultural Resources, on September 24, 2013. Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	In a letter to FERC dated February 13, 2013, the Swinomish Tribal Community indicated that it would participate in the Pre-filing Process to the extent practicable. No comments on report filed with FERC. No comments on report filed with FERC.
Sent letter about WEP on January 16, 2013 to Melvin Sheldon, Chair.	Sent letter on September 28, 2012 to Chair Sheldon describing WEP and including its cultural resources research design.	No response to NOI filed with FERC. No response to letter filed with FERC. No response to letter filed with FERC.
Confederated Tribes of the Umatilla Indian Reservation Sent NOI for WEP issued September 24, 2012 c/o Eric Quaempti, Board of Trustees; Carey Miller; and Teara Farrow, Cultural Resources.	Sent cultural resource survey report (McClintock et al. June 2013) to Richard Young, Cultural Resources, on September 24, 2013. Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.	No comments on report filed with FERC. No comments on report filed with FERC.
Sent letter about WEP on January 16, 2013 to Les Minthorn, Chair.	Sent letter on September 28, 2012 to Chair Minthorn describing the WEP and including its cultural resources research design.	No response to NOI filed with FERC. No response to letter filed with FERC.

Table B3-2

Summary of Tribal Consultations for WEP

Native Americans and Indian Tribes Contacted by FERC	Native Americans and Indian Tribes Contacted by Northwest	Responses
<p>Upper Skagit Indian Tribe</p> <p>Sent NOI for WEP issued September 24, 2012 c/o Jennifer Washington, Chair.</p> <p>Sent letter about WEP on January 16, 2013 to Jennifer Washington, Chair</p>	<p>Sent cultural resource survey report (McClintock et al. June 2013) to Teara Farrow and Catherine Diickson, Cultural Resources, on September 24, 2013.</p> <p>Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.</p> <p>Sent letter on September 28, 2012 to Chair Washington describing WEP and including its cultural resources research design.</p> <p>Sent cultural resource survey report (McClintock et al. June 2013) to Scot Schuyler, Cultural Resources, on September 24, 2013.</p> <p>Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.</p>	<p>No comments on report filed with FERC.</p> <p>No comments on report filed with FERC.</p> <p>No response to NOI filed with FERC.</p> <p>No response to letter filed with FERC.</p> <p>No response to letter filed with FERC.</p> <p>No comments on report filed with FERC.</p> <p>No comments on report filed with FERC.</p>
<p>Confederated Tribes of the Warm Springs Reservation</p> <p>Sent NOI for WEP issued September 24, 2012 c/o Ron Suppah, Chair, and Sally Bird, Cultural Resources.</p> <p>Sent letter about WEP on January 16, 2013 to Stanley Smith, Chair</p>		<p>No response to NOI filed with FERC.</p> <p>No response to letter filed with FERC.</p>
<p>Confederated Tribes and Bands of the Yakama Nation</p> <p>Sent NOI for WEP issued September 24, 2012 c/o Jerry Mennick, Chair; Johnson Mennick, Cultural Resources; and Philip Rigdon, Natural Resources.</p> <p>Sent letter about WEP on January 16, 2013 to Harry Smiskin, Chair.</p>	<p>Sent letter on September 28, 2012 to Chair Smishin describing WEP and including its cultural resources research design.</p> <p>Sent cultural resource survey report (McClintock et al. June 2013) to Kate Valdez, Cultural Resources, and Philip Rigdon, Natural Resouces, on September 24, 2013.</p> <p>Sent revised addendum survey report (McClintock and Wilt September 2014) on September 3, 2014.</p>	<p>No response to NOI filed with FERC.</p> <p>No response to letter filed with FERC.</p> <p>No comments on report filed with FERC.</p> <p>No comments on report filed with FERC.</p>

APPENDIX C

SAFETY ADVISORY REPORT AND MOU BETWEEN OREGON LNG AND OREGON DEPARTMENT OF ENERGY

Appendix C1: Response of the Federal Energy Regulatory Commission to the Safety Advisory Report of the Oregon Department of Energy for the Oregon LNG Terminal Project and ODE Safety Advisory Report

Appendix C2: MOU between Oregon LNG and ODE

APPENDIX C1

RESPONSE OF THE FEDERAL ENERGY REGULATORY COMMISSION TO THE SAFETY ADVISORY REPORT OF THE OREGON DEPARTMENT OF ENERGY FOR THE OREGON LNG TERMINAL PROJECT AND ODE SAFETY ADVISORY REPORT

1.0 INTRODUCTION

The Natural Gas Act (NGA), as modified by the Energy Policy Act of 2005 (EPAAct), requires that the Federal Energy Regulatory Commission (FERC or the Commission) consult with the state in which a liquefied natural gas (LNG) terminal is proposed to be located regarding state and local safety matters. The governor of Oregon designated the Oregon Department of Energy (ODE) as the state agency that the FERC should consult with on safety and siting matters for the Oregon LNG Terminal and Pipeline Project. On November 10, 2008, the ODE submitted its Safety Advisory Report to the FERC. In the report, ODE addressed state and local considerations for the project.

The EPAAct also stipulates that before the Commission may issue an order authorizing an LNG terminal, it must “review and respond specifically” to the safety matters raised by the state agency designated as the lead for the state and local safety matters. Table C1-1 of this appendix provides the FERC’s response to the ODE Safety Advisory Report for the Oregon LNG Terminal Project. Section 3.0 contains the Safety Advisory Report.

2.0 FERC RESPONSE TO THE SAFETY ADVISORY REPORT

The ODE identified the following key categories of potential safety concerns in the Safety Advisory Report:

- Emergency Planning and Response;
- Security Zone;
- Seismic Design;
- Terminal Design;
- Hazard Identification;
- Quality Assurance;
- Safety Issues; and
- Emergency Response Capabilities near the Facility Location.

The Safety Advisory Report included both general and specific safety matters that ODE requested to be included in the FERC’s review of the Oregon LNG application. The FERC’s specific responses to those concerns are presented in tabular format in table C1-1 in the order of the issues presented in the report. Where appropriate, the response identifies the section of the EIS where information on the issue of concern is addressed.

As described in sections 1.0 and 2.1 of the EIS, the Coast Guard has shared responsibility with FERC in reviewing the Oregon LNG Terminal Project and has summarized portions of its review in its Letter of Recommendation (LOR). In addition to including the LOR in the EIS, we have summarized portions of it in the EIS. As a result, for some concerns presented in the Safety Advisory Report, we have noted that the issue is addressed in the LOR, as well as the specific section of the EIS where the concern is addressed.

TABLE C1-1

The FERC's Responses to Concerns Presented in the ODE Safety Advisory Report for the Oregon LNG Terminal Project

Topic	Issue	Response
Emergency Planning and Response	The FERC should require an applicant to commit to covering 100 percent of the safety and security costs directly associated with the LNG vessel transits, the facility, and the pipeline.	We included a recommendation that the Emergency Response Plan include a Cost-Sharing Plan identifying the mechanisms for funding all project-specific security/emergency management costs that would be imposed on state and local agencies. This is discussed in section 4.1.13.9 of the EIS.
	The safety/security zones proposed for the vessel in transit and the vessel at dock must be sufficiently calculated and justified. The applicant or the Coast Guard must thoroughly explain any changes to those zones that might accompany heightened national security as well as any resulting impacts.	In its LOR Analysis, the Coast Guard has recommended a 500-yard moving safety/security zone around the LNG carrier during transit of the waterway where no other vessel may enter without first obtaining permission from the COTP. While the ship is moored at the terminal, there will be a 200-yard security zone around the vessel. The expectation is that the Captain of the Port's (COTP) Representative would work with the pilots and patrol assets to control traffic, and would allow vessels to transit the Safety/Security zone based on a case-by-case assessment conducted on the scene. Escort resources would be used to contact and control vessel movements such that the LNG carrier is protected.
	<p>The FERC should require the applicant to complete an acceptable Emergency Response Plan prior to any Commission decision on its application and in conjunction with the Coast Guard's validation of the WSA.</p> <p>The applicant's Emergency Response Plan must be developed in full cooperation with state and local authorities.</p> <p>The applicant's Emergency Response Plan must sufficiently and accurately characterize the emergency response capabilities along the vessel transit route and near the facility, including response times and must include measures to mitigate for any safety gaps.</p>	In accordance with the Energy Policy Act of 2005, this plan must be filed prior to any project construction. We included a recommendation in section 4.1.13.9 that, prior to initial site preparation, Oregon LNG should develop an Emergency Response Plan (including evacuation) and coordinate procedures with the Coast Guard; state, county, and local emergency planning groups; fire departments; state and local law enforcement; and appropriate federal agencies.
	<p>The applicant's Emergency Response Plan must include all potentially affected communities along the LNG vessel route and near the terminal in a comprehensive, thoroughly publicized warning system.</p> <p>The applicant's Emergency Response Plan must account for potential population increases due to tourism.</p>	Part of the Emergency Response Plan (to be developed by Oregon LNG) must include at a minimum: procedures for notifying residents and recreational users within areas of potential hazard and locations of permanent sirens and other warning devices. Also, the recommendation we included in section 4.1.13.9 would require the involvement of local emergency planning groups in developing the Emergency Response Plan.

TABLE C1-1

The FERC's Responses to Concerns Presented in the ODE Safety Advisory Report for the Oregon LNG Terminal Project

Topic	Issue	Response
	<p>Any FERC authorization for an LNG terminal and associated pipeline in Oregon must fully comply with Oregon state and local laws and regulations, including energy facility siting laws.</p>	<p>As a matter of foreign commerce, the importation or exportation of LNG is subject to federal, not state, control. Although the Commission has exclusive jurisdiction over the proposed project, certain permits, approvals, and licenses are the responsibility of other federal agencies and state and local authorities. The Commission encourages cooperation between project applicants and these agencies. However, any state or local permits issued with respect to the jurisdictional facilities authorized by the Commission must be consistent with the conditions of the approving Order.</p>
<p>Seismic Design</p>	<p>The Oregon Department of Geology (DOGAMI) has recommended that the design basis tsunami height be raised and concerns over the liquefiable soils at the terminal site be addressed.</p>	<p>In the DEIS, Section 4.1.1.1, subsections titled Seismic-related Hazards, Seismic-induced Subsidence, Tsunami, and Soil Liquefaction and Settlement provide a detailed description of the design basis for the tsunami height and addresses concerns over liquefiable soils at the Project. The design height is based upon a site specific tsunami study prepared by Coast and Harbor in 2013. This analysis predicts that the design tsunami elevation would range between +8 and +16 feet (NAVD 88) at the terminal site considering the tsunami occurred at mean high water tidal elevation. It is estimated during the CSZ earthquake, the terminal site would lower 7.6 feet due to tectonic subsidence. Therefore the effective water surface elevation would range between +15.6 feet and +23.6 feet considering tsunami wave, tidal, and subsidence effects.</p> <p>Earthquake hazard maps of the Astoria-Warrenton area (DOGAMI, 1999) indicate that the terminal area has a high risk for soil liquefaction. Oregon LNG's geotechnical assessment (CH2M HILL, 2013a) concluded that settlement of up to 2.4 feet may occur from liquefaction at the terminal during a large earthquake. The design basis return period is 2500 years.</p>
<p>Terminal Design</p>	<p>In Oregon LNG's application, Resource Report 11 references the 2001 edition of NFPA 59A, but the NFPA website states that the current edition is 2009. FERC should use the latest edition as its acceptance criteria.</p>	<p>On April 9, 2004, the DOT revised 49 CFR 193 to incorporate the 2001 edition of NFPA 59A. Portions of the 2006 edition of NFPA 59A, related to storage tank seismic design, have also been incorporated into 49 CFR 193. To date, the DOT has not incorporated the 2009 edition into the CFR and FERC will continue to use the approved criteria in its review process.</p>
<p>Hazard Identification</p>	<p>In Oregon LNG's application, Resource Reports 1 and 11 state that the terminal would be designed to accommodate ships with capacities up to 250,000 m³. The reference at the end of Resource Report 11 includes the original 2004 Sandia Report that reports the zones of concern based on ships smaller than 150,000 m³. FERC should base its analysis on the most recent Sandia Report and include a recommendation to limit ships to be no larger than those assumed in any heat flux and vapor dispersion calculations.</p>	<p>The Coast Guard has taken into account the hazards associated with larger ships in accordance with NVIC 01-11 which references Sandia 2008. Sandia 2008 specifically addresses larger ships such as those being proposed by Oregon LNG. The updated Sandia report is discussed in Section 4.1.13.7.</p>

TABLE C1-1

The FERC's Responses to Concerns Presented in the ODE Safety Advisory Report for the Oregon LNG Terminal Project

Topic	Issue	Response
	<p>The FERC should verify that the assumption of pure methane cargoes is not representative of actual cargoes and may not be conservative.</p>	<p>The presence heavier hydrocarbons such as ethane and propane and imported LNG with concentrations from 86 to 96 percent methane are discussed in section 4.1.13.6 of the EIS.</p>
<p>Quality Assurance</p>	<p>The State of Oregon expects the Commission to describe and impose a condition requiring Oregon LNG to adopt a rigorous and comprehensive quality assurance program applicable during both construction and operation of the import terminal.</p>	<p>Quality assurance and control programs to monitor material selection, equipment fabrication, and installation would be provided by the Engineering, Procurement, and Construction (EPC) contractor selected by the project applicant if the project is authorized. In addition, the applicant would also have a similar program to provide oversight of the EPC. FERC staff would review these programs during periodic construction inspections. We have also included a condition requiring Oregon LNG to provide its quality assurance and quality control plans for our review and approval.</p> <p>During the operational phase of the proposed terminal, Oregon LNG would be required to file with the Secretary semi-annual operational reports that identify changes in facility design and operating conditions, abnormal operating experiences, activities (including ship arrivals, quantity and composition of imported LNG, vaporization quantities, boil-off/flash gas, etc.), plant modifications including future plans, and progress thereof.</p> <p>The proposed terminal would also be subject to regular FERC staff technical reviews and site inspections on at least an annual basis or more frequently if circumstances indicate.</p>
<p>Safety Issues</p>	<p>The California Energy Commission advisory report for the proposed Long Beach import terminal suggests a lower heat flux level of 1.5 kw/m². Oregon LNG should calculate the distance to this heat flux level for a design basis event and issue a figure showing the results.</p>	<p>The DOT examined this issue during the rulemaking process which established the thermal exclusion zone requirements. In their Advance Notice of Proposed Rulemaking (Notice No. 77-4, Docket No. OPSO-46), which was used to develop 49 CFR Part 193, the DOT suggested 3.1 kw/m² (1,000 Btu/ft²-hr) as an acceptable level for direct human exposure to thermal flux. After the public review period, it was determined that the evidence and information supported the use of 5 kw/m² (1,600 Btu/ft²-hr) as the limit for direct human exposure. Also, in a formal interpretation issued on July 7, 2010, DOT confirmed that the thermal flux levels prescribed in the 2001 edition of NFPA 59A comply with the regulations in 49 CFR 193.2057.</p>

TABLE C1-1

The FERC's Responses to Concerns Presented in the ODE Safety Advisory Report for the Oregon LNG Terminal Project

Topic	Issue	Response
<p>Additional Comments on the Associated Pipeline</p>	<p>The pipeline associated with OLNG goes through more populated lands than the Pacific Connector pipeline that was associated with JCEP. FERC should take into account the rapid population growth close to Warrenton and in western Washington County, particularly near Forest Grove. The same comment would apply to portions of Marion County near Woodburn. This would make it appropriate for FERC to require pipeline design and block valve spacing for a higher population category. Category 3 should be a minimum, and even category two design specifications would be appropriate in sections near these rapidly growing exurbs.</p>	<p>As described under pipeline safety in section 4.1.13.13 of the EIS, under a <i>Memorandum of Understanding on Natural Gas Transportation Facilities</i> dated January 15, 1993 between the DOT and FERC, the DOT has the exclusive authority to promulgate federal safety standards used in the transportation of natural gas. Section 157.14(a)(9)(vi) of FERC's regulations requires that an applicant certify that it will design, install, inspect, test, construct, operate, replace, and maintain the facility for which a Certificate is requested in accordance with federal safety standards and plans for maintenance and inspection. Alternatively, an applicant must certify that it has been granted a waiver of the requirements of the safety standards by the DOT in accordance with Section 3(e) of the Natural Gas Pipeline Safety Act. The FERC accepts this certification and does not impose additional safety standards for pipeline facilities.</p>
	<p>FERC should also note that in Oregon, the Public Utility Commission (OPUC) has inspection and enforcement authority for regulations of USDOT, under a delegation from USDOT. The OPUC has implemented pipeline safety regulations that include, and sometimes exceed, the USDOT regulations at 49 CFR 192. FERC should consult directly with the pipeline safety section of the OPUC for a full comparison. The State of Oregon expects that wherever there is a difference between USDOT and OPUC pipeline safety rules, the stricter of the two will apply.</p>	<p>Section 4.1.13.13 of the EIS states that Title 49, U.S.C. Chapter 601 provides for a state agency to assume all aspects of the safety program for intrastate facilities by adopting and enforcing the federal standards. A state may also act as DOT's agent to inspect interstate pipeline facilities within its boundaries; however, the DOT is responsible for enforcement actions. In Oregon, the Public Utility Commission (OPUC) has inspection and enforcement authority for regulations of DOT, under a delegation from DOT. The OPUC has implemented pipeline safety regulations that include, and sometimes exceed, the USDOT regulations at 49 CFR 192.</p>

TABLE C1-1

The FERC's Responses to Concerns Presented in the ODE Safety Advisory Report for the Oregon LNG Terminal Project

Topic	Issue	Response
<p>Emergency Response Capabilities Near the Facility Location</p>	<p>The Emergency Response Plan must address all identified emergency situations, and that all costs attributable to insuring public safety must be borne by the applicant. The State is also concerned about the effect of impasse during negotiations for the Emergency Response Plan and urges the Commission to adopt a clear, expeditious process for addressing disagreements between the applicant and state and local governments.</p>	<p>In accordance with the Energy Policy Act of 2005, this plan must be filed prior to any project construction. We included a recommendation in section 4.1.13.9 that Oregon LNG develop an Emergency Response Plan (including evacuation) and coordinate procedures with the Coast Guard; state, county, and local emergency planning groups; fire departments; state and local law enforcement; and appropriate federal agencies. The EIS includes a Cost-Sharing Plan that would identify the mechanisms for funding all project-specific security/emergency management costs that would be imposed on state and local agencies.</p> <p>As an update in an email communication from the ODE to FERC on October 30, 2014 (FERC eLibrary Accession number 20141103-4002), ODE staff indicates that Oregon LNG has committed to development of the Memorandum of Understanding, and the development of the plans and programs included in the MOU. ODE staff indicates that the negotiated MOU would specify documents to be developed and executed by ODE and Oregon LNG in order for ODE to reach a determination that the emergency preparedness approach committed to by Oregon LNG meets state safety and security standards, including, but not limited to: 1) Emergency Response Plan; 2) Resource List that identifies gaps in personnel, facilities, equipment and systems needed to implement the ERP; and 3) Cost-Share Agreement with state and local agencies for activities and resources identified in the ERP and Resource List.</p>
	<p>FERC should make the development of the Emergency Response Plan as transparent to the public as possible, including the essential elements of the plan. Although details of the WSA and Emergency Response Plan are withheld from public disclosure, information regarding measures to protect the public during an event should be a part of public outreach and should be available before the issuance of a FERC construction permit.</p>	<p>Information in the Emergency Response Plan pertaining to items such as off-site emergency response and procedures for public notification and evacuation would be subject to public disclosure. See section 4.1.13.9 of the EIS.</p>



Oregon
Theodore R. Kulongoski, Governor



OREGON
DEPARTMENT OF
ENERGY

VIA Electronic Filing

November 10, 2008

The Honorable Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426
Re: Oregon LNG Project, Docket No. CP09-6 and CP09-7

Dear Ms. Bose:

On October 10, 2008, Oregon LNG filed an application for construction of a terminal for importation of liquefied natural gas (LNG). Oregon LNG will be an onshore LNG receiving terminal on the east bank of the Skipanon Peninsula near the confluence of the Skipanon and Columbia Rivers at Warrenton, Clatsop County, Oregon. The proposed facility includes a turning basin and berth for unloading LNG carriers and facilities to receive and regasify LNG.

The sendout pipeline associated with this project is the proposed Oregon Pipeline, approximately 121 miles of 36-inch pipeline from Warrenton to Molalla OR. This pipeline will interconnect at the Molalla Gate Station near Molalla, Oregon, with other natural gas pipelines including Northwest Natural Gas Co.'s South Mist Pipeline Extension and Williams' Northwest Pipeline.

The pipeline design includes one electrically driven gas compressor station just south of the Timber area on Longview Fiber land in Washington County, Oregon.

The Energy Policy Act of 2005, enacted on August 8, 2005, specifies in Section 311(d) that the Governor of a state where a proposed LNG terminal would be located shall designate a state agency to consult with the Federal Energy Regulatory Commission regarding applications and that this state agency may prepare a safety advisory report that addresses state and local safety considerations. This provision in the Energy bill appears to be specific to the terminal and not to any associated pipeline. The report is due 30 days from the application filing date.

The Governor of Oregon has designated the Oregon Department of Energy as the agency responsible for preparation of a safety advisory report for the proposed Bradwood Landing LNG terminal. Therefore, enclosed for filing in the above-mentioned proceeding, please find an electronic copy of the safety advisory report for the proposed LNG terminal. If you have any questions in this matter, please contact Tom Stoops at (503) 378-8328 or tom.stoops@state.or.us.

Sincerely,

Ken Niles, Assistant Director
Nuclear Safety and Energy Facility Siting

SAFETY ADVISORY REPORT
ON THE PROPOSED
OREGON LNG LIQUEFIED NATURAL GAS TERMINAL
SKIPANON PENSINSULA
NEAR WARRENTON, OREGON

*PREPARED BY THE STAFF
OF THE OREGON DEPARTMENT OF ENERGY*

November 10, 2008

**SAFETY ADVISORY REPORT
ON THE PROPOSED
OREGON LNG LIQUEFIED NATURAL GAS TERMINAL
SKIPANON PENINSULA
NEAR WARRENTON, OREGON**

The Oregon Department of Energy (ODOE) issues this Safety Advisory Report on behalf of the State of Oregon pursuant to section 311(d) of the Energy Policy Act of 2005 (the Act). The report concerns the application to the Federal Energy Regulatory Commission (FERC) by Oregon LNG, LLC, to build an onshore LNG receiving terminal on the east bank of the Skipanon Peninsula near the confluence of the Skipanon and Columbia Rivers at Warrenton, Clatsop County, Oregon. The proposed facility includes a turning basin and berth for unloading LNG carriers and facilities to receive and regasify LNG and a 121 mile sendout pipeline from Warrenton to Molalla OR. Oregon LNG filed its application with FERC on October 10, 2008.

The Act allows the state to file an advisory report that identifies “state and local safety considerations” within 30 days of the date the application is filed. The “safety” information solicited in the advisory report is largely repetitive of information that Oregon LNG itself provides in its application to FERC in its terminal application and in its Waterway Suitability Assessment to the Coast Guard. It is information that Oregon LNG also must provide in its emergency response plan to be developed in conjunction with the Coast Guard, the state, and appropriate local jurisdictions prior to any construction.

The State of Oregon has been intimately involved in reviewing and commenting on Oregon LNG’s pre-filing and application resource reports, and is involved with the Coast Guard in reviewing the project’s WSA. To the extent that the State disagrees with the information Oregon LNG has provided or will provide on safety issues in those venues, the state will pursue corrections or changes through the above review processes. For example, Oregon LNG has not accurately or adequately characterized in its Waterway Suitability Assessment (WSA) the area’s emergency response capabilities. The Department will work with the Coast Guard, other state agencies and local jurisdictions to correct the information under the WSA process.

The State considered providing FERC with specific scenarios for evaluating accidental or intentional releases of LNG from a vessel or the facility itself. Again, however, such scenarios play a role both in the WSA and in the forthcoming emergency response planning. Moreover, based on recent Commission approvals of LNG terminal projects, the State believes the Commission will find that the risk of any potential LNG release scenario can be reduced to an acceptable minimum.

On June 15, 2006, the Commission approved three new LNG terminal projects: Sempra’s Port Arthur LNG in Port Arthur, Texas; Cheniere’s Creole Trail LNG in Cameron Parish, Louisiana; and BP America Production Company’s Crown Landing LNG in Logan Township in New Jersey. The language in the Commission’s Creole Trail decision about the risk of an accidental LNG release is mirrored in the other two decisions:

Based on the extensive operational experience of LNG shipping, the structural design of an LNG vessel, and the operational controls imposed by the Coast Guard and the local pilots, a cargo containment failure and subsequent LNG spill from a vessel casualty – collision, grounding, or allision – is highly unlikely. For similar reasons, an accident involving the onshore LNG import terminal is unlikely to affect the public. As a result, the FEIS determined that the risk to the public from accidental causes is negligible.

Further, the language in the Commission’s Creole Trail decision about the risk of an intentional LNG release is also mirrored in the other two decisions:

Unlike accidental causes, historical experience provides little guidance in estimating the probability of a terrorist attack on an LNG vessel or onshore storage facility. For a new LNG import terminal proposal having a large volume of energy transported and stored near populated areas, the perceived threat of a terrorist attack is a serious concern of the local population and requires that resources be directed to mitigate possible attack paths. If the Coast Guard issues a Letter of Recommendation finding the waterway suitable for LNG marine traffic, the operational restrictions that would be imposed by the Lake Charles Pilots on LNG vessel movements through this area, as well as the requirements that the Coast Guard would impose, would minimize the possibility of a hazardous event occurring along the vessel transit area. While the risks associated with the transportation of any hazardous cargo can never be entirely eliminated, we are confident that they can be reduced to minimal levels and that the public will be well protected from harm.

For the above reasons, what the State provides in this advisory report largely is broad safety policy statements about the proposed Oregon LNG project along with a limited amount of specific, technical comments. In addition, the State is attaching one letter each from the cities of Warrenton and Astoria and a package of information from Clatsop County for FERC’s consideration. As well, the State of Oregon incorporates by reference the safety comments included in previous filings to the FERC docket, including CP06-365 Bradwood Landing and CP07-441 Jordan Cove.

Although the application to FERC is limited in scope to the LNG terminal and associated pipeline, we consider the risks from a release of LNG on the mouth of the Columbia River to be among the most significant safety concerns associated with the facility. The safety of the LNG terminal is strongly connected to the question of safety on the waterway and in the nearby communities of Warrenton and Astoria.. We expect FERC to address issues and concerns raised by stakeholders in those communities and to consider the safety of those communities in determining whether to approve the LNG terminal and associated pipeline.

Each of the state and local agencies in Oregon, whether or not they contributed to this advisory report, reserve their right to file additional joint or separate comments and/or evidence on safety and other issues.

State of Oregon General Policy Comments

- 1. FERC should require an applicant to commit to 100 percent of the safety and security costs directly associated with the LNG vessel transits, the facility and the pipeline.**

Under Section 311(e)(2), an emergency response plan to be developed prior to construction must include a cost-sharing plan that includes a “description of any direct cost reimbursements that the applicant agrees to provide to any State and local agencies with responsibility for security and safety at the LNG terminal and in proximity to vessels that serve the facility.” The State understands and appreciates that Oregon LNG has agreed thus far to pick up the costs of most safety and security needs that the company has identified as necessary. However, the local jurisdictions are not in a position to dedicate their own limited funds to any LNG safety and security measures that may be required. In addition, local jurisdictions may not agree with an applicant about the level of resources required. An applicant should first be required to pay for an adequate assessment of safety and security needs and then pay for all infrastructure, planning, emergency exercises and other associated costs identified in an emergency response plan agreed to by the state and local jurisdictions. Should FERC not require the applicant to commit to 100 percent of the costs, FERC should explain its authority for imposing such costs on local jurisdictions and the state.

- 2. The safety/security zones proposed for the vessel in transit and the vessel at dock must be sufficiently calculated and justified. The applicant or Coast Guard must thoroughly explain any changes to those zones that might accompany heightened national security as well as any resulting impacts.**

Some area residents have expressed concern that the safety/security zones will be so large that they will impact traffic on the Columbia River. Others have expressed concern that the safety/security zones will be too small, sized to avoid the above concern rather than for adequate safety protection. Any zones proposed should provide a rationale for their size.

- 3. FERC should require an applicant to complete an acceptable emergency response plan prior to any Commission decision on an application and in conjunction with the Coast Guard’s validation of the Waterway Suitability Assessment.**

Under Section 311(e)(1), FERC will not require Oregon LNG to create an emergency response plan until after a positive decision by the Commission and just before any final approval to begin construction. However, to the extent that Oregon LNG’s Waterway Suitability Assessment relies on the creation of a satisfactory emergency response plan to ensure that the Columbia River is suitable for LNG, that emergency response plan must be available for review prior to any decisions on both the WSA and the FERC application. Again learning from the Bradwood Landing and the JCEP experience, the recommended conditions in the DEIS would require the applicant for that facility to develop the Emergency Response Plan (ERP) prior to construction, but after the Commission’s decision to approve the project. It would be illogical for either the Commission or the Coast Guard to decide that LNG is safe for the region without knowing first if a suitable emergency response plan can be enacted along the vessel route and at the facility.

- 4. The applicant’s Emergency Response Plan must be developed in full cooperation with state and local authorities.**

Emergency response planning must be an integrated, carefully developed effort that involves every entity that is potentially affected by the LNG import terminal.

- 5. The applicant's Emergency Response Plan must sufficiently and accurately characterize the emergency response capabilities along the vessel transit route and near the facility, including response times. The Plan must mitigate for any safety gaps.**

Thus far, the state and local jurisdictions have not reached agreement as to which jurisdiction will have primary responsibility and authority in the event of an accident or intentional breach.

Agreement also has not been reached on the resource gaps, and proper allocation of supplemental resources. The USCG and FERC should not find that the waterway is suitable until it is known that these issues have been resolved.

- 6. The applicant's Emergency Response Plan must include all potentially affected communities along the LNG vessel route and near the terminal in a comprehensive, thoroughly publicized warning system.**

Any community located within one of the three Sandia zones of impact must be considered in emergency response plans, including access to a reverse 911 system and sirens.

- 7. The applicant's Emergency Response Plan must account for potential population increase due to tourism.**

According to a 2004 Clatsop County Grand Jury Report, Clatsop County's population can increase by 50-to-100 percent or more during high tourism season. Depending on the location of those visitors, the influx may bring challenges for LNG emergency response education as well as LNG ship transit education.

- 8. Any FERC authorization for an LNG terminal and associated pipeline in Oregon must fully comply with Oregon state and local laws and regulations, including energy facility siting laws.**

In particular, the State of Oregon requires large energy facilities to provide a bond or letter of credit to ensure that the proposed site can be restored to a useable, non-hazardous condition. We consider the bond or letter of credit to be a safety precaution against a potentially abandoned or otherwise vacated site. Thus far, the applicant does not appear to have addressed this issue in its application materials.

State of Oregon Specific Comments

Seismic Design

The Department is particularly concerned about the potential for tsunami. Of the three LNG terminals proposed along the Oregon coast since 2004, the Oregon LNG site is by far the most susceptible to tsunami. This is partly because the location facing the mouth of the Columbia is in the direct path of a design basis tsunami, with no breakwater or other shielding. Members of the Oregon Department of Geology (DOGAMI) went to Sumatra after the 2005 tsunami, and have recommended that design basis tsunami height be raised considerably. Also, DOGAMI has raised serious concern over the liquefiable soils at the terminal site. This is in contrast to other sites that were either several miles up the river, or located on more stable soils.

For this reason, any emergency plan proposed for the OLNNG facility should be based on the premise that a tsunami could be the initiating event, and that emergency response capabilities will be challenged by the tsunami itself.

Terminal Design

Resource reports 1 and 11 consistently commit to compliance with NFPA 59A and codes referenced therein, but with little information on the actual details of compliance. Resource report 11 references the 2001 edition of NFPA 59A, but the NFPA website states that the current edition is 2009. FERC should use the latest edition as its acceptance criteria. Even if detailed design information were available, the short deadline for this advisory report does not permit a detailed design review, sufficient to audit Oregon LNG's design against NFPA code requirements on a line-by-line basis. We expect FERC to perform this detailed design review, and reserve the right to comment on design issues as more time and more information become available.

Hazard Identification

The safety discussion in Resource Report 11 appears to rely heavily on the 2004 Sandia Report, and particularly on the Zones of Concern identified in that report and cited in NVIC 05-05. The references at the end of Resource Report 11 include the original 2004 Sandia Report, but there is no mention of the more recent "Sandia II", which addresses larger ships. FERC should base its hazards analysis on the more recent recommendations of Sandia II.

Resource report 1 of Oregon LNG's application state that the terminal will be designed to accommodate ships with capacity up to 250,000 m³. The zones of concern in the 2004 Sandia report were based on ships smaller than 150,000 m³. FERC's recommendation for this project should be conditioned on ships no larger than those assumed in any heat flux and vapor dispersion calculation.

The assumption of pure methane is probably not representative of actual cargo and may not be conservative. Oregon LNG has not committed to receiving its supply from any particular producing nation, and therefore we must assume that product would be received from nations where the LNG has a higher concentration of natural gas liquids such as propane. Some of these higher-weight hydrocarbons have higher potential for vapor dispersion than pure methane. We expect FERC to verify that conservative assumptions were used for all parameters, including the hydrocarbon content of the product, in NFPA 59A required calculations. The EIS for this project should explain how these assumptions were made and why they are the most conservative.

Quality Assurance

In our Safety Advisory Report for Bradwood Landing, dated June 2006 and for JCEP, dated October 2007, ODOE included extensive comments on the need for a rigorous Quality Assurance program that would be subject to regulatory review prior to start of construction. We note that the Bradwood DEIS and FEIS as well as the JCEP DEIS do not include a discussion of such a program, and we renew the recommendation and incorporate our comments from that June 2006 report into this one. The State expects the Commission to describe and impose a condition requiring Oregon LNG to adopt a rigorous and comprehensive quality assurance program applicable during both construction and operation of the import terminal.

Our review of 49 CFR 193 and NFPA 59A did not reveal any standards for an acceptable QA program. We would expect to see evidence that the QA function is independent of operations, scheduling or budgeting. We would expect to see steps to ensure that:

- i metal components are fabricated of metals with the specified metallurgical content and properties,
- ii concrete or other structural materials are tested to the strength specified,
- iii vendors of equipment and material are audited by qualified auditors,
- iv nondestructive tests are observed and approved by independent quality control personnel,
- v personnel performing safety related construction or operation activities are properly qualified, with documentation of that qualification available for audit,
- vi construction and operations are performed in accordance with approved procedures,
- vii only controlled copies of design documents are used in construction, with only the current revision used in the field,
- viii all changes in design documents are carried forward to other related and associated design documents,
- ix measurements are made with equipment that is calibrated and traceable,
- x conditions adverse to quality are subject to a corrective actions program that results in actions to prevent recurrence.

Safety Issues

The State of Oregon has reviewed the Safety Advisory Report on the proposed LNG terminal at the Port of Long Beach (POLB) issued by the California Energy Commission (CEC). That report relies largely on material taken from two readily available reports: (1) the Sandia Labs' November 2004 report "Guidance on Risk Analysis and Safety Implications of a Large Liquefied Natural Gas (LNG) Spill Over Water" (Sandia Report) and (2) Richard Clark's "LNG Facilities in Urban Areas."

The safety significant events listed in Sandia and Clark and quoted in the CEC advisory report could apply to any terminal at any location and need not be repeated in this report. However, we agree with CEC that the 5 kw/m^2 is described in the Sandia Report as "the permissible level for emergency operations lasting several minutes with appropriate clothing" (Table 6, p.38). This is the lowest heat flux shown in the tables that describe the exclusion zone calculations in Resource report 11.. Because the people occupying the nearest residences or businesses (in Warrenton) are relatively far from the nearest fire station and do not have the appropriate clothing or emergency training, thermal radiation calculations should show the point at which worst case heat flux will permit safe evacuation, possibly requiring more than "several minutes" and without appropriate clothing or emergency training. We especially note that U.S. highway 101 can reach a virtual standstill during weekends, even in winter, so that evacuation may not be quick or even practical. Therefore, an exclusion distance should be chosen that ensures a low enough heat flux for those people who cannot move away quickly. The CEC advisory report at p. 15 suggests 1.5 kw/m^2 . Oregon LNG should calculate the distance to this heat flux for a design basis event at Oregon LNG and issue a figure showing the results.

Additional Comments on the Associated Pipeline

Resource Report 11 includes substantive information on pipeline safety as well as terminal safety. The pipeline associated with OLNNG goes through more populated lands than the Pacific Connector pipeline that was associated with JCEP. FERC should take into account the rapid population growth close to Warrenton and in western Washington County, particularly near Forest Grove. The same comment would apply to portions of Marion County near Woodburn. This would make it appropriate for FERC to require pipeline design and block valve spacing for a higher population category. Category 3 should be a minimum, and even category two design specifications would be appropriate in sections near these rapidly growing exurbs.

FERC should also note that in Oregon, the Public Utility Commission (OPUC) has inspection and enforcement authority for regulations of USDOT, under a delegation from USDOT. The OPUC has implemented pipeline safety regulations that include, and sometime exceed, the USDOT regulations at 49 CFR 192. For example, OPUC rules for cathodic protection exceed the federal regulations and require that such protection be operational immediately as start of operation, without the six month lag allowed by federal rules. There are other examples where PUC rules exceed those of USDOT. FERC should consult directly with the pipeline safety section of the OPUC for a full comparison. The State of Oregon expects that wherever there is a difference between USDOT and OPUC pipeline safety rules, the stricter of the two will apply.

Emergency Response Capabilities near the Facility Location

The State appreciates that the Commission has provided draft guidance for preparing the required Emergency Response Plan for an LNG import terminal. However, the State remains concerned that the guidance will be viewed by applicants as an upper limit on their responsibility for ensuring the safety of surrounding communities. The State views the guidance as just that: guidance, and urges the Commission to affirmatively state that the ERP must address all identified emergency situations, and that all costs attributable to insuring public safety must be borne by the applicant.

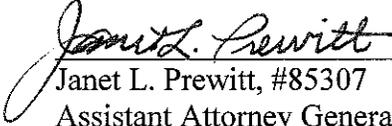
Furthermore, the State remains concerned that FERC's guidance fails to provide minimum resource and training standards for LNG emergency preparedness and response. The state is concerned about the effect of impasse during negotiations for the ERP. As a result, the state established minimum standards for any LNG developer desiring to build and operate an LNG import terminal in Oregon. The state urges the Commission to require Oregon LNG to establish a Memorandum of Understanding agreeing to comply with Oregon's minimum standards for emergency preparedness to prevent disagreements between the applicant and state and local governments on what is adequate LNG preparedness.

Finally, whatever criteria are used to generate the ERP, FERC should make the process as transparent to the public as possible, including the essential elements of an emergency plan. Although the details of the WSA and ERP are withheld from public disclosure, information regarding measures to protect the public during a design basis event should be a part of public outreach and should be available before the issuance of a FERC construction permit.

CERTIFICATE OF SERVICE AND MAILING

I hereby certify that I have this day served by electronic mail, and for those parties for which service is not specified at an electronic mail address, by U.S. mail, first class postage prepaid, the foregoing document on all parties listed on the official service list complied on this proceeding.

Date: November 10, 2008.



Janet L. Prewitt, #85307
Assistant Attorney General

APPENDIX C2

MOU BETWEEN OREGON LNG AND ODE

**AGREEMENT BETWEEN
THE OREGON DEPARTMENT OF ENERGY AND
OREGON LNG FOR EMERGENCY PLANNING AND PREPAREDNESS AT PROPOSED LNG
FACILITIES**

I. Purpose

This agreement establishes a framework of cooperation and sets responsibilities between Oregon LNG and the Oregon Department of Energy (ODOE) for the completion of Phase I and Phase II of the planning and preparedness for emergencies at proposed Liquefied Natural Gas (LNG) facilities in Oregon. This includes the associated terminals and events along the waterway transit routes as described in Section IV of this agreement.

II. Authorities and Responsibilities

Oregon LNG is responsible by federal law and regulations to cooperate with state and local governments to protect public health and safety in the event of an accident at their LNG facilities, terminals, or along the transit routes.

The Governor of Oregon is responsible for the emergency services system within the state of Oregon (ORS 401.035). In consultation with the Oregon Department of Energy and the Economic and Community Development Department, the Governor is directed to prepare an extensive statewide contingency plan for energy emergencies (ORS 176.809). The Governor of the State of Oregon has delegated to ODOE the responsibility to work with the United States Coast Guard and be the lead state agency that will work with FERC with respect to safety issues associated with LNG facilities in Oregon. Pursuant to ORS 469.030(1) (c), (e) and U), ODOE has authority to contract with private agencies for energy activities and services related to energy resources including the administration of federal and state energy programs.

III. Objectives

Oregon LNG and ODOE agree to cooperate to develop an emergency preparedness program for accidents at proposed facilities, which establishes and ensures uniform policies and procedures to (1) protect public health, safety and the environment and (2) ensure public awareness of and confidence in Oregon's and Oregon LNG's response to an accident.

IV. Phase 1 Tasks

ODOE agrees to develop a program for carrying out the responsibilities listed in Section II as they apply to Oregon LNG's proposed LNG facility.

Oregon LNG and ODOE agree that Phase 1 will focus on developing a preliminary draft state LNG Emergency Response Plan. Phase 1 tasks include:

Task 1 – Review existing site-specific emergency response plans, along with Coast Guard waterway documentation. Participate in the development of site-specific emergency response plans and comment on documents provided for review.

Task 2 – Review existing site-specific information necessary to assist in the development of local and state emergency response plans, focusing on existing and needed infrastructure, personnel and equipment requirements, and communication protocols.

Task 3 – Review published emergency response plans from already constructed and permitted LNG re-gasification terminals within the United States to provide key structure and content information. Site-specific information will be updated based on construction information in Phase 2 before operations commence.

Task 4 – Develop the preliminary draft State Emergency Response plan with initial required procedures identified. Procedures will be drafted in phase 2, before operations commence.

Task 5 – Develop the preliminary draft site-specific information and define overarching procedure needs.

Task 6 – Publish preliminary draft State Emergency Response plan for review and revision by state and local agencies.

V. Consideration

A. In consideration of ODOE's activities under this agreement, Oregon LNG will reimburse ODOE for expenditures incurred in performance of the tasks described in Section IV above.

B. ODOE will submit quarterly invoices to Oregon LNG. Oregon LNG agrees to reimburse ODOE for all expenses incurred, including salaries, benefits, direct expenses for services and supplies, travel and indirect (overhead).

C. For the period beginning on the effective date of this contract and ending June 30, 2015, Oregon LNG will pay ODOE an amount not to exceed \$25,000. The not-to-exceed amount can be revised by modification to this Agreement and must be signed by authorized representatives of both parties.

VI. Revisions

Oregon LNG and ODOE agree to review this agreement and update it as necessary. Amendments or modifications may be made to this agreement only upon the written agreement of both parties.

VII. Term of Agreement

This agreement shall become effective upon signatures by both parties, and shall remain in effect until June 30, 2015, unless sooner terminated or extended. This Agreement may be terminated by either party upon 30 days previous written notice to the other party.

The agreement is executed this 15th day of August, 2014.

VIII. Contract

ODOE Contact

Deanna Henry
Emergency Manger
Oregon Department of Energy
625 Marion St. NE
Salem, OR 97301

(503) 932-4428
deanna.henry@state.or.us

Oregon LNG Contact

Peter Hansen
Chief Executive Officer
Oregon LNG
5 N HWY 101
Warrenton, OR 97146

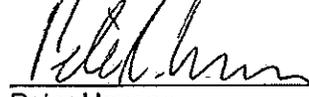
(503) 298-4967
peterh@oregonlng.com

OREGON DEPARTMENT OF ENERGY

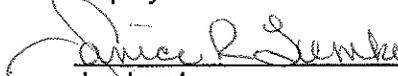
Oregon LNG



Michael Kaplan 8.19.14
Deputy Director Date



Peter Hansen 8/15/2014
Chief Executive Officer Date



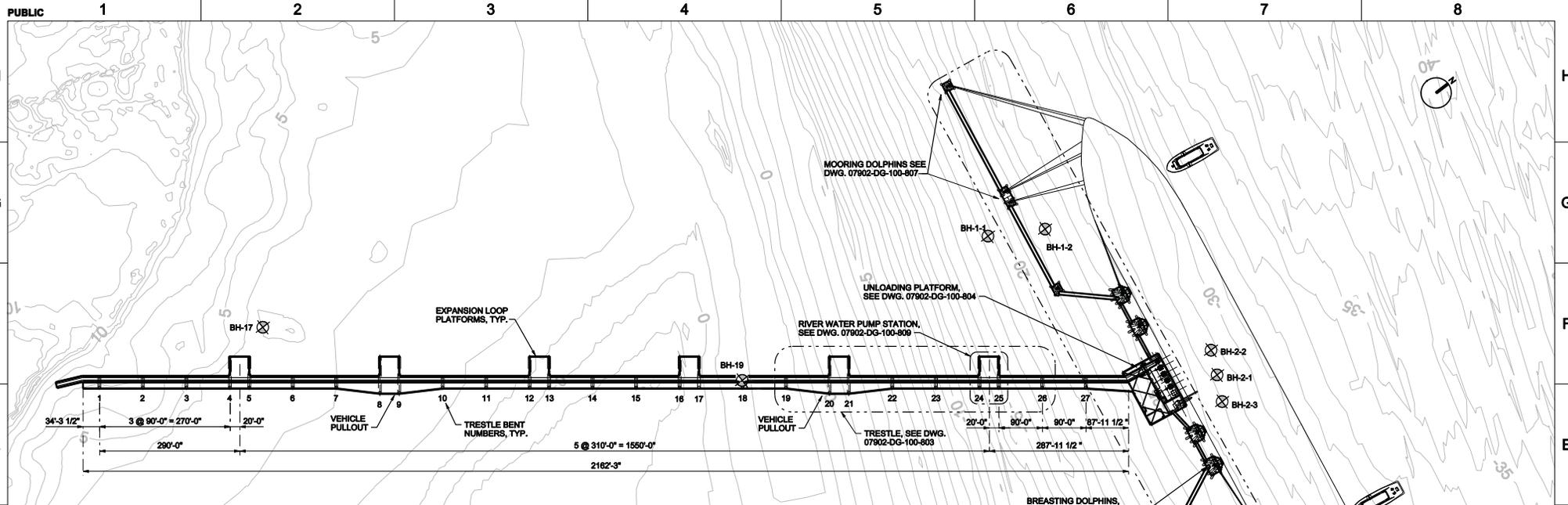
Jan Lemke 8/18/14
Designated Procurement Officer Date



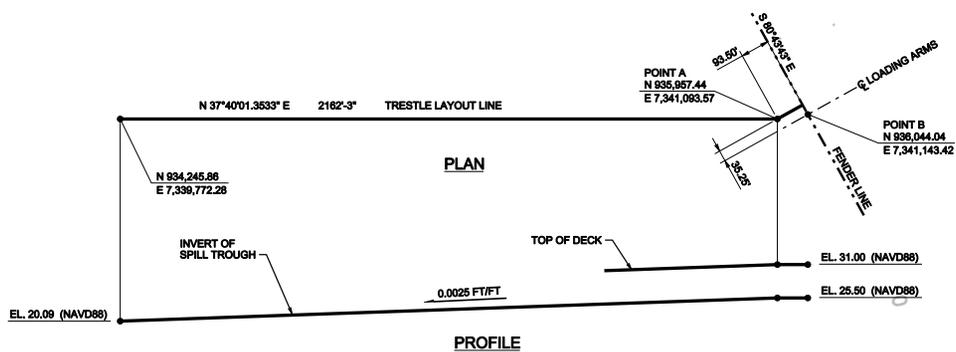
Ken Niles, 8-18-14
Division Administrator Date

APPENDIX D

TERMINAL DIAGRAMS



MARINE TERMINAL PLAN
1"=100'



MARINE TERMINAL GEOMETRY
NTS

Project Title: OREGON LNG, LLC
 NE KING AVE, WARRENTON, OR 97146

Drawing Title: MARINE TERMINAL PLOT PLAN
 Figure 1

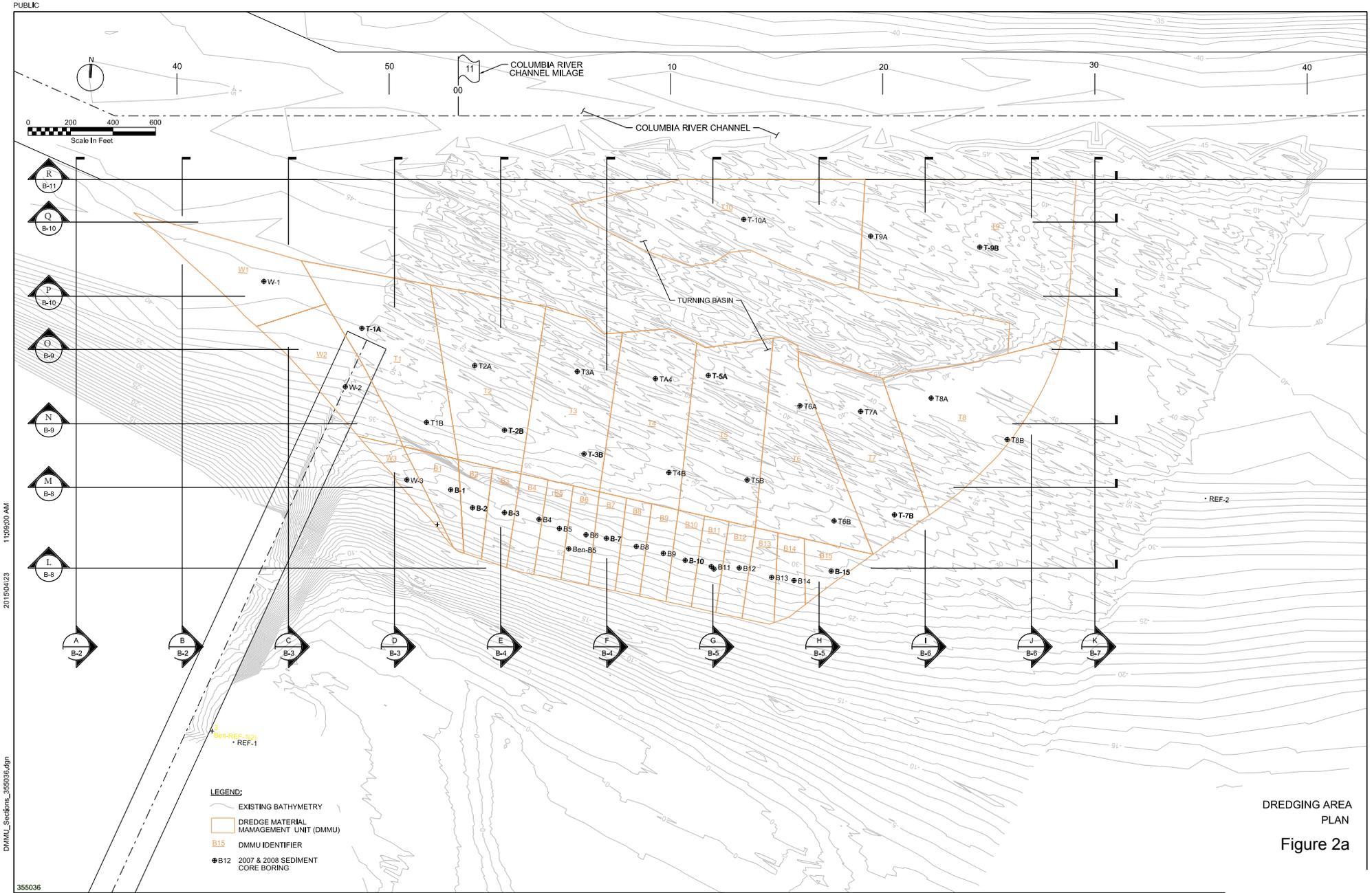
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 Date: 5-31-12

Checked & Approved: JLP, MWD
 Date: 5/29/12, 5/31/12

Drawing No: 07902-DG-100-800
 Sheet: SHEET 1 OF 1

REVISIONS				
Rev.	Description	Drawn & Date	Checked & Date	Approved & Date
A	ISSUED FOR CLIENT REVIEW	JLP 5/29/12	MWD 5/31/12	

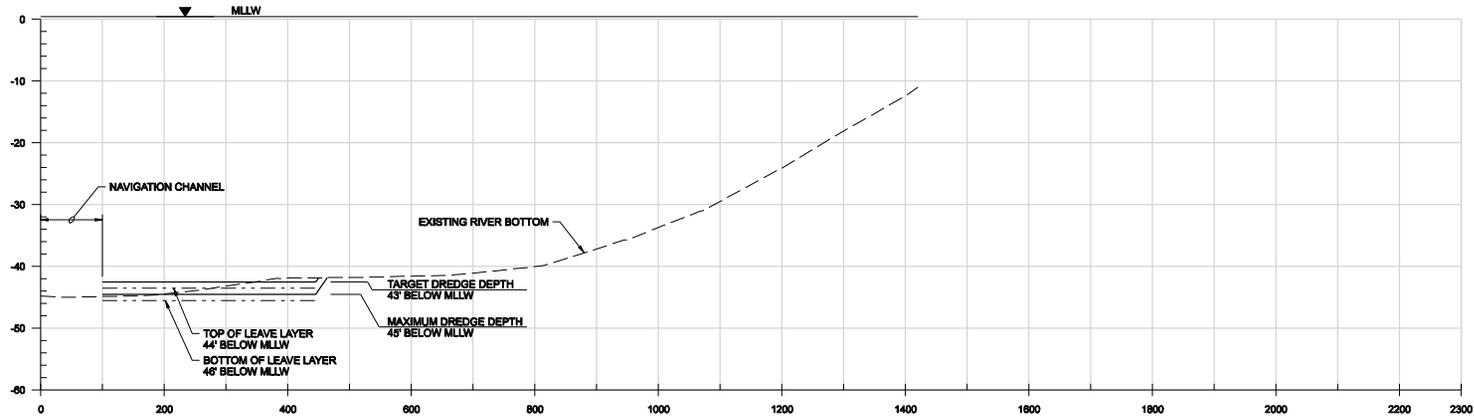
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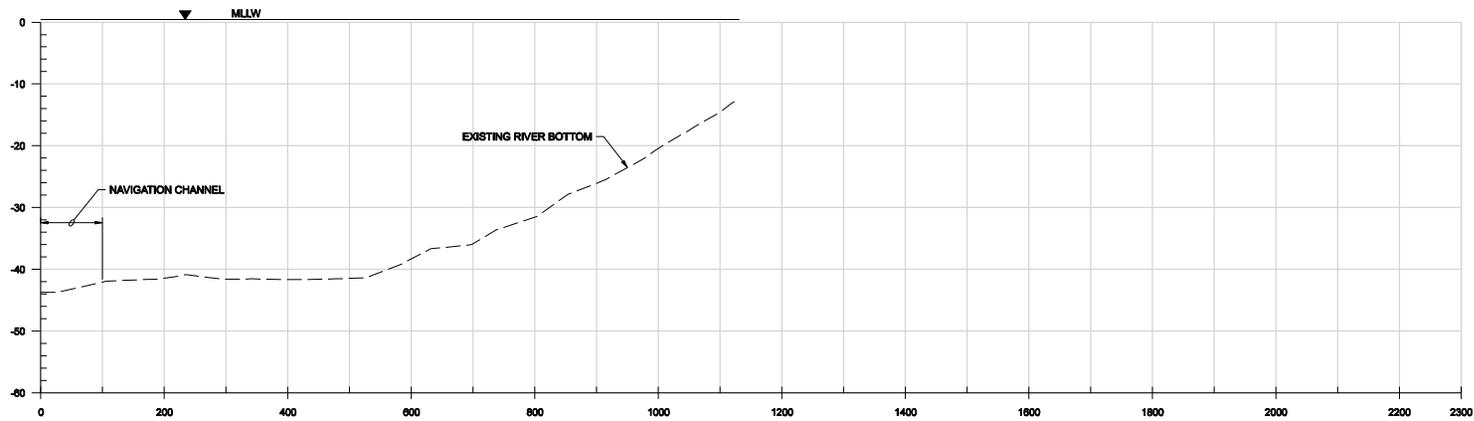
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355036

DREDGING AREA
 PLAN
 Figure 2a



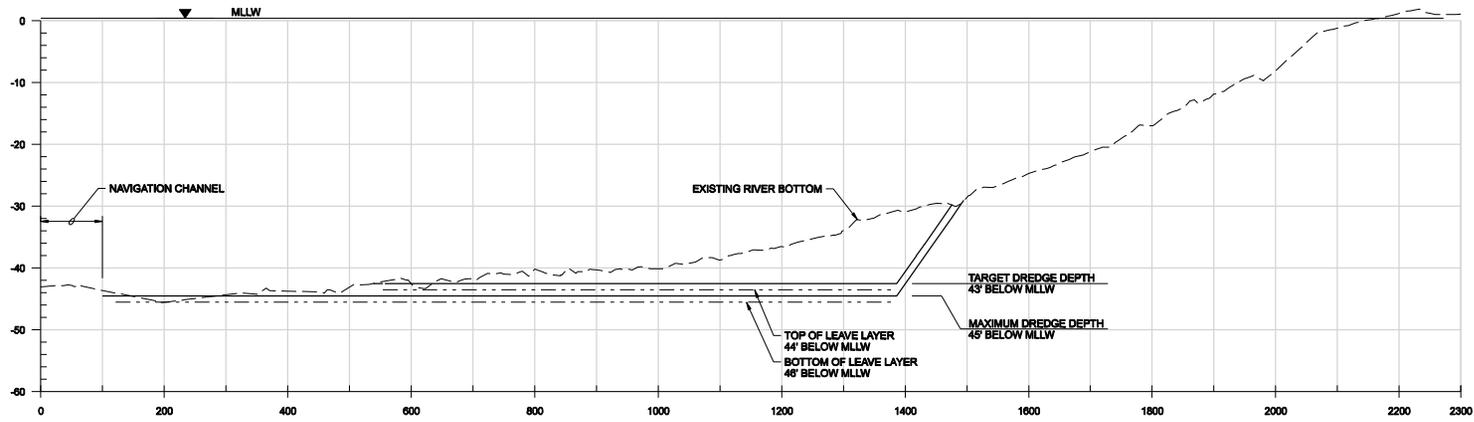
B TURNING BASIN SECTION
1"=100' HORIZ
1"=10' VERT
B-1



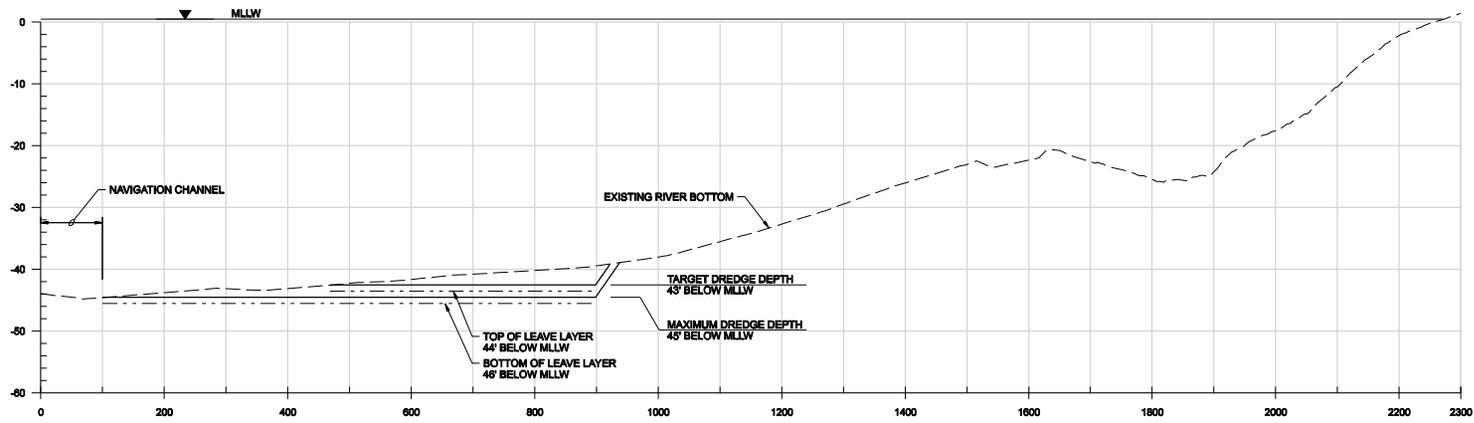
A TURNING BASIN SECTION
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1"=10' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTIONS A & B

Figure 2b

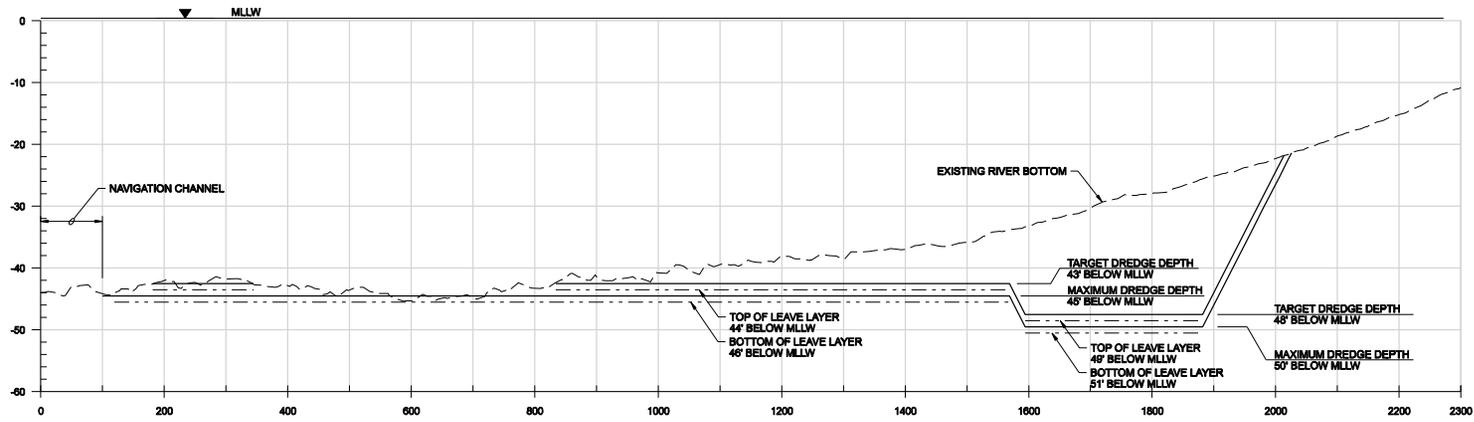


D TURNING BASIN SECTION
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1"=10' VERT
B-1

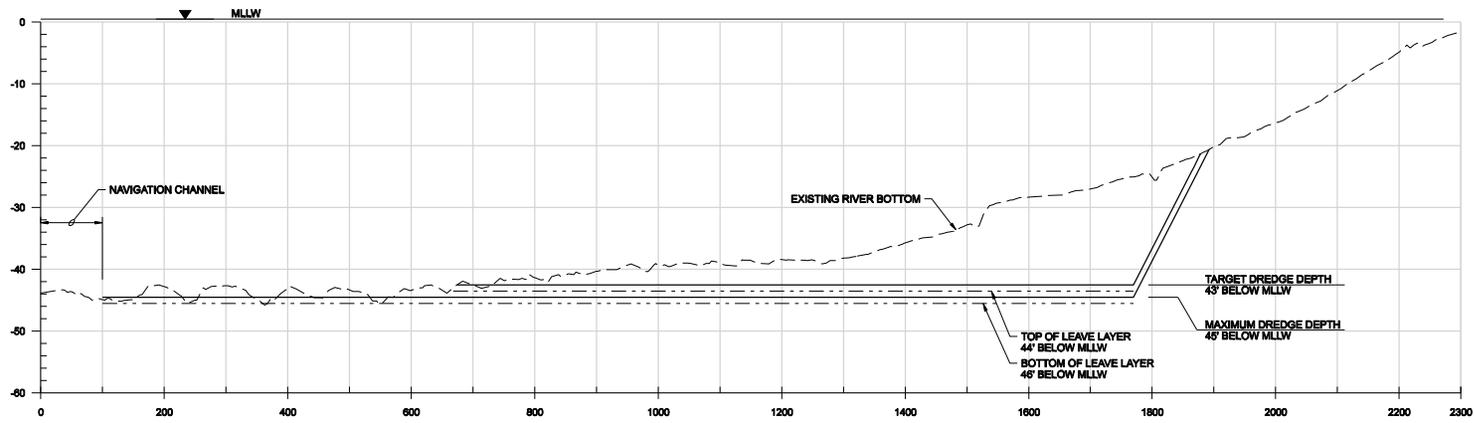


C TURNING BASIN SECTION
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1"=10' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTIONS C & D
Figure 2c



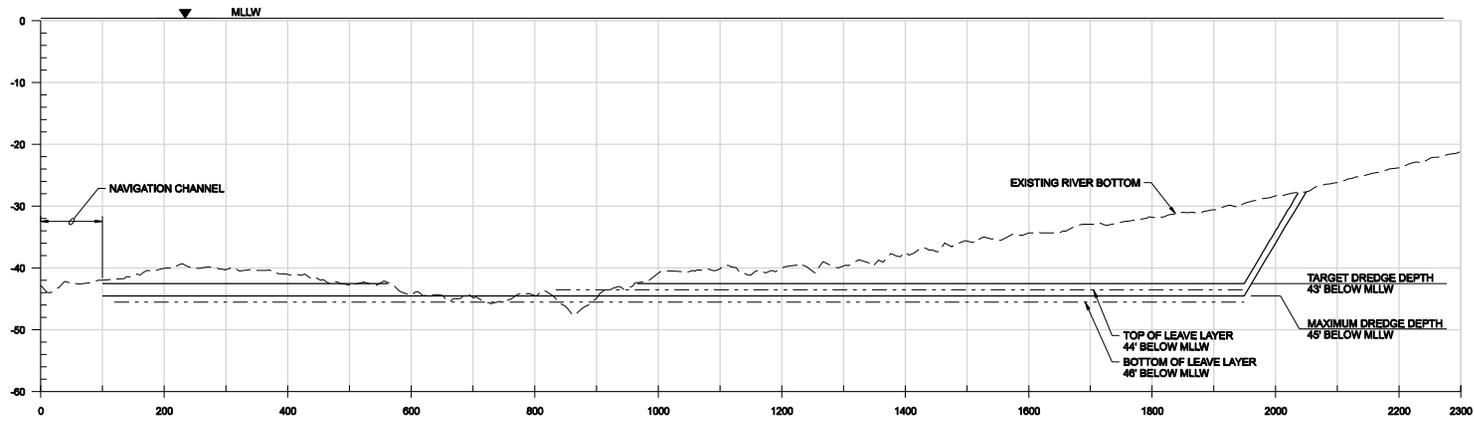
F TURNING BASIN SECTION
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1"=10' VERT
B-1



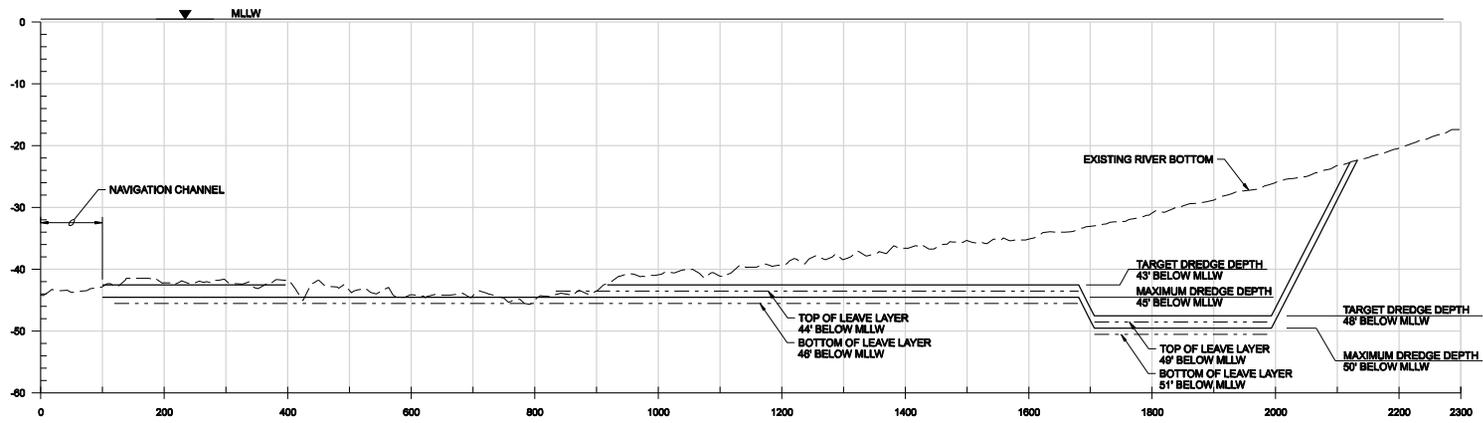
E TURNING BASIN SECTION
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1"=10' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTIONS E & F

Figure 2d



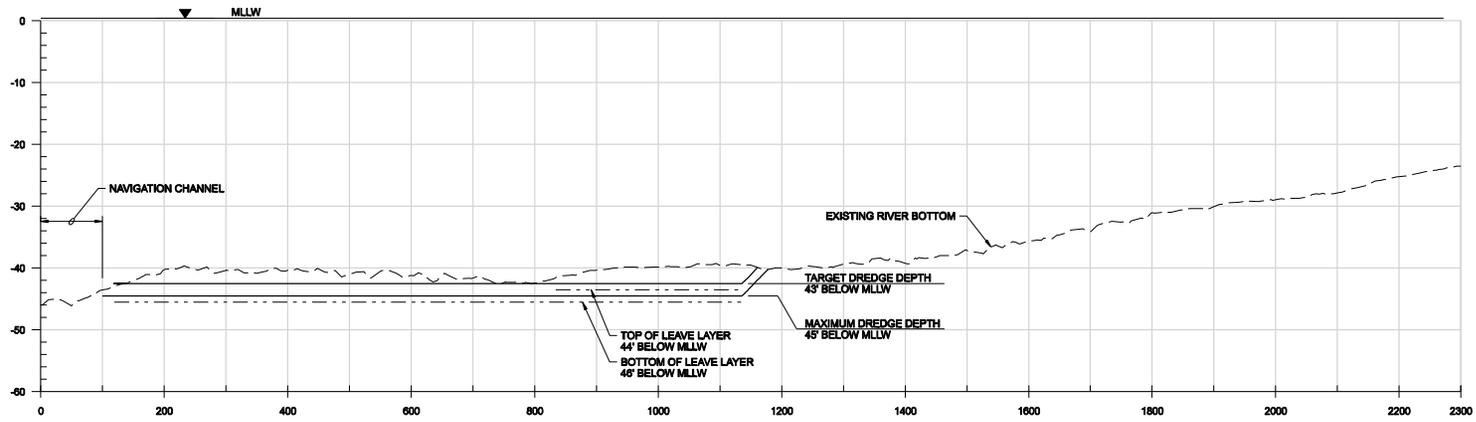
H TURNING BASIN SECTION
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1"=10' VERT
B-1



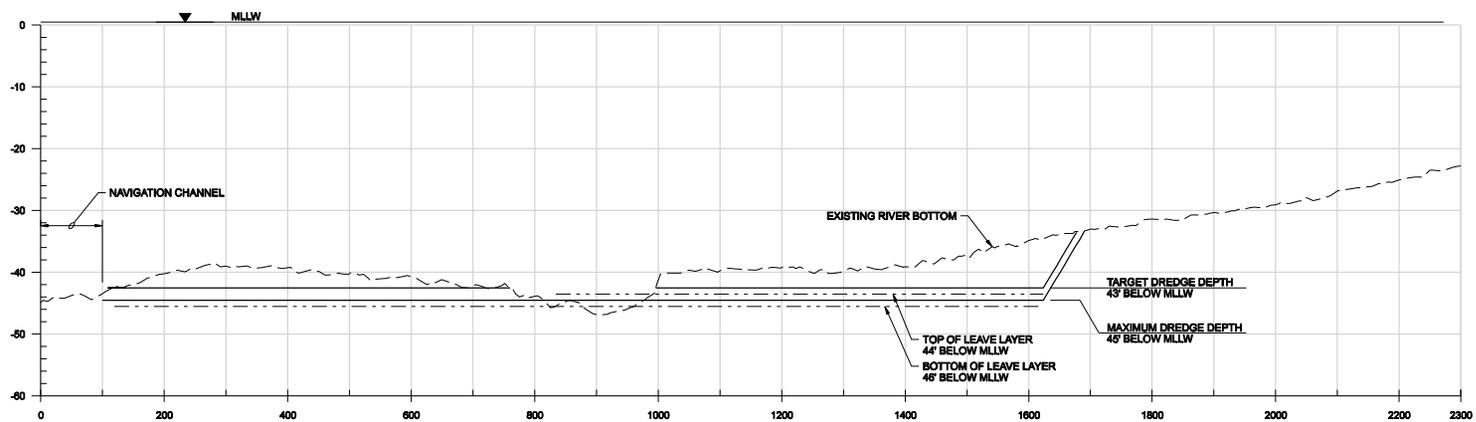
G TURNING BASIN SECTION
1"=100' HORIZ
1"=10' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTIONS G & H

Figure 2e



J TURNING BASIN SECTION
1"=100' HORIZ
1"=10' VERT
B-1

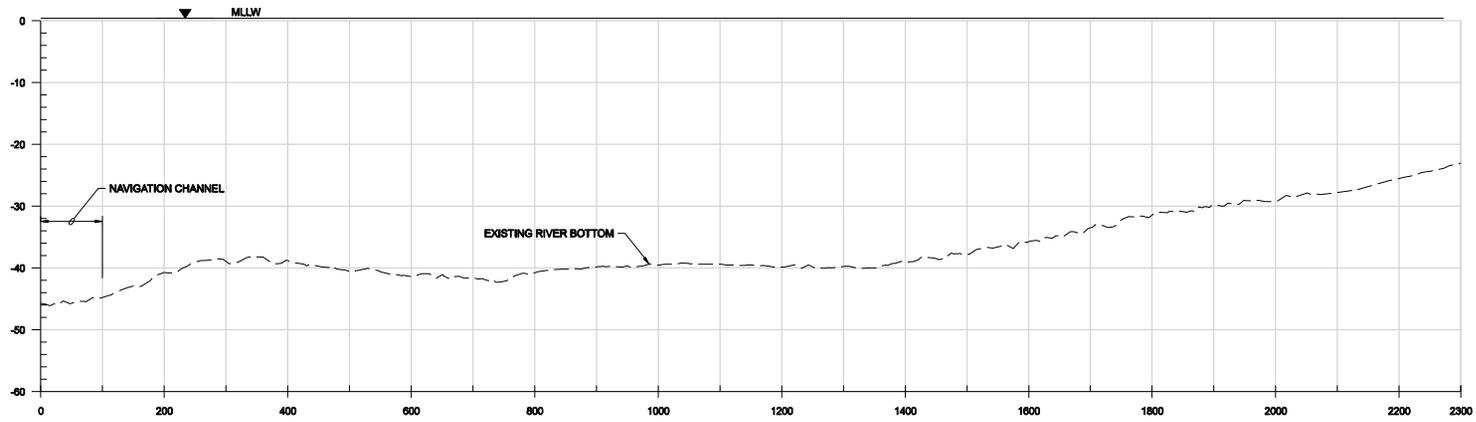


I TURNING BASIN SECTION
1"=100' HORIZ
1"=10' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTIONS I & J

Figure 2f

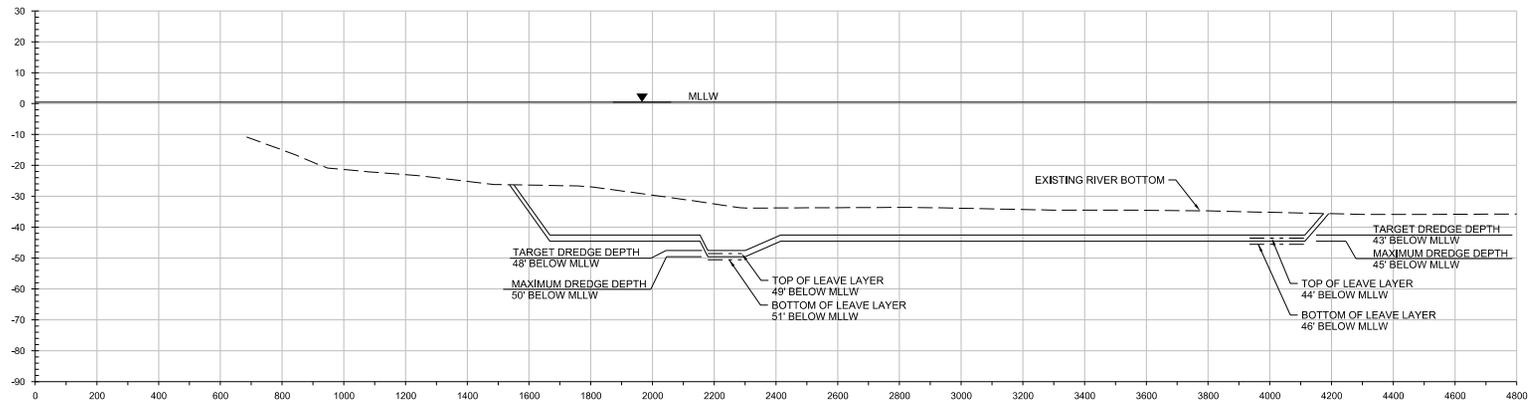
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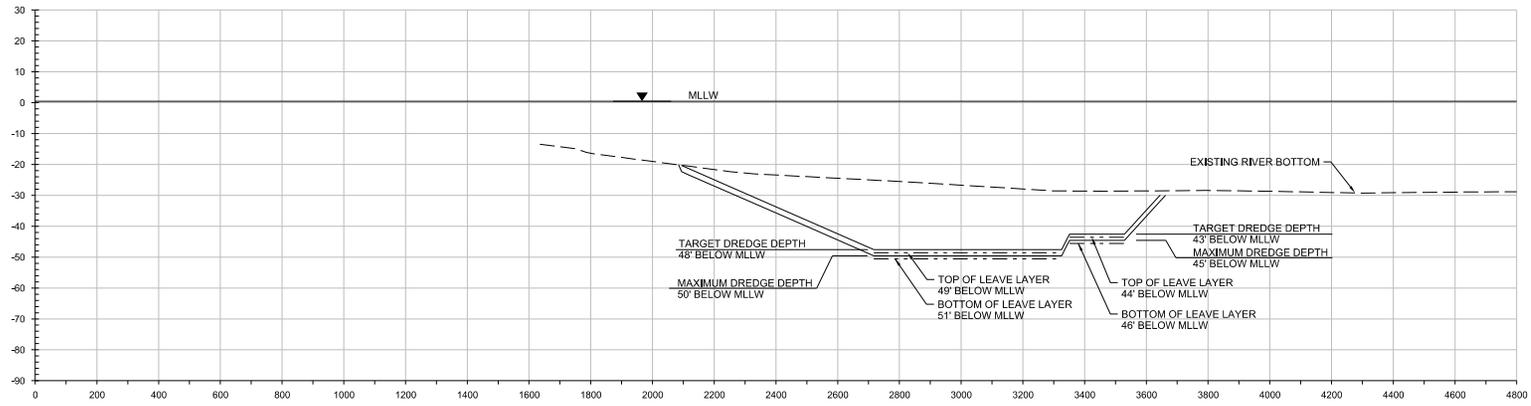
L TURNING BASIN SECTION
1"=100' HORIZ
1"=10' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTION K

Figure 2g



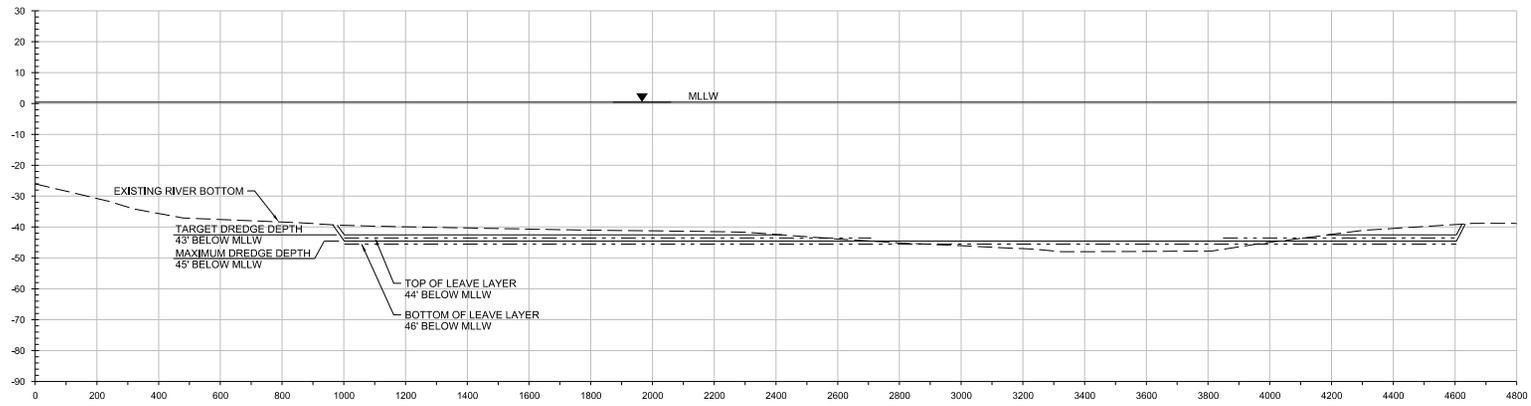
M BERTH SECTION
1"=200' HORIZ
1"=20' VERT
B-1



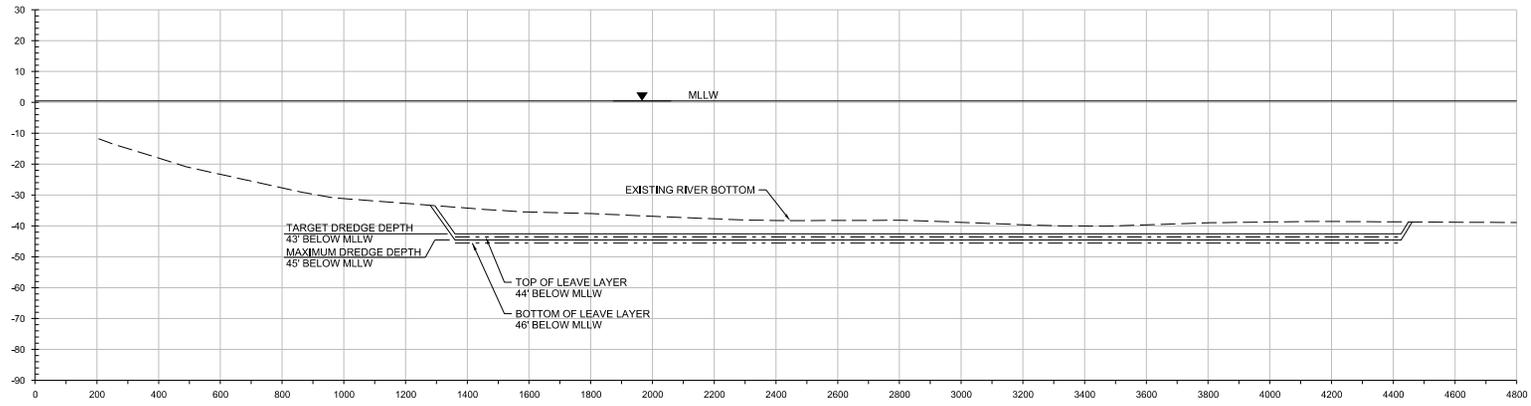
L BERTH SECTION
1"=200' HORIZ
1"=20' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTION L AND M

Figure 2h



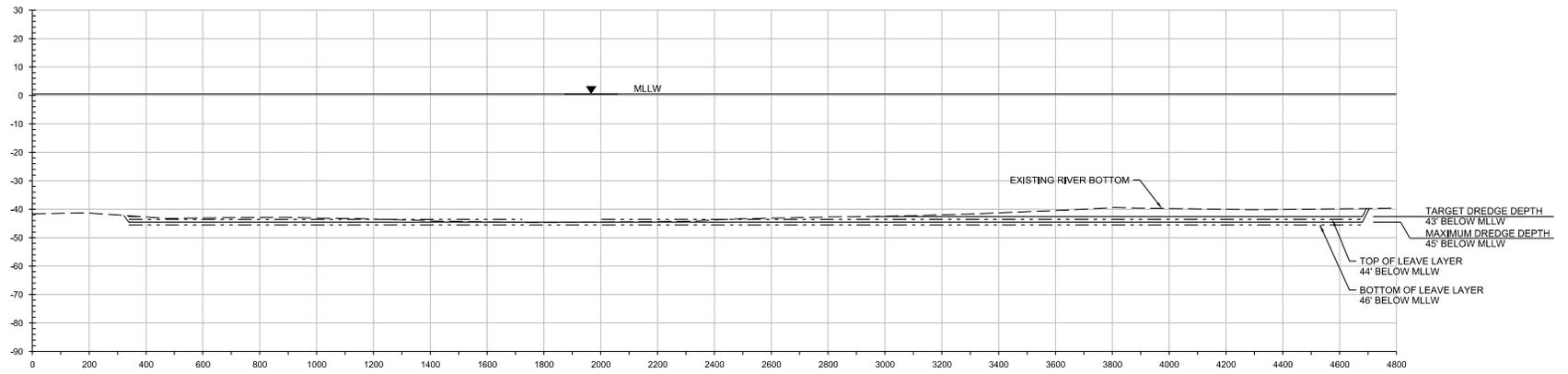
TURNING BASIN SECTION
1"=200' HORIZ
1"=20' VERT
O
B-1



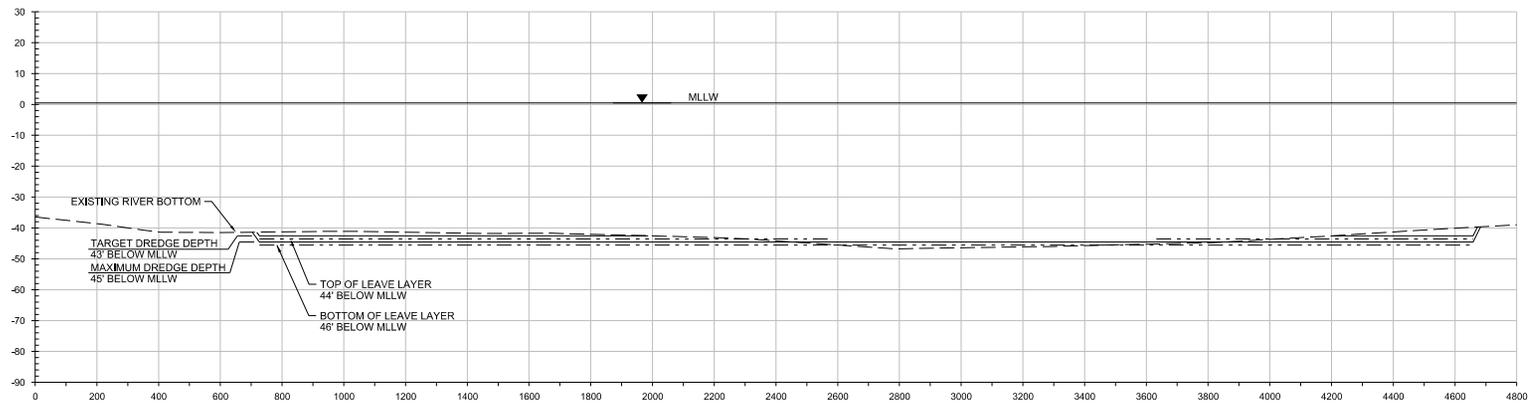
TURNING BASIN SECTION
1"=200' HORIZ
1"=20' VERT
N
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTION N AND O

Figure 2i



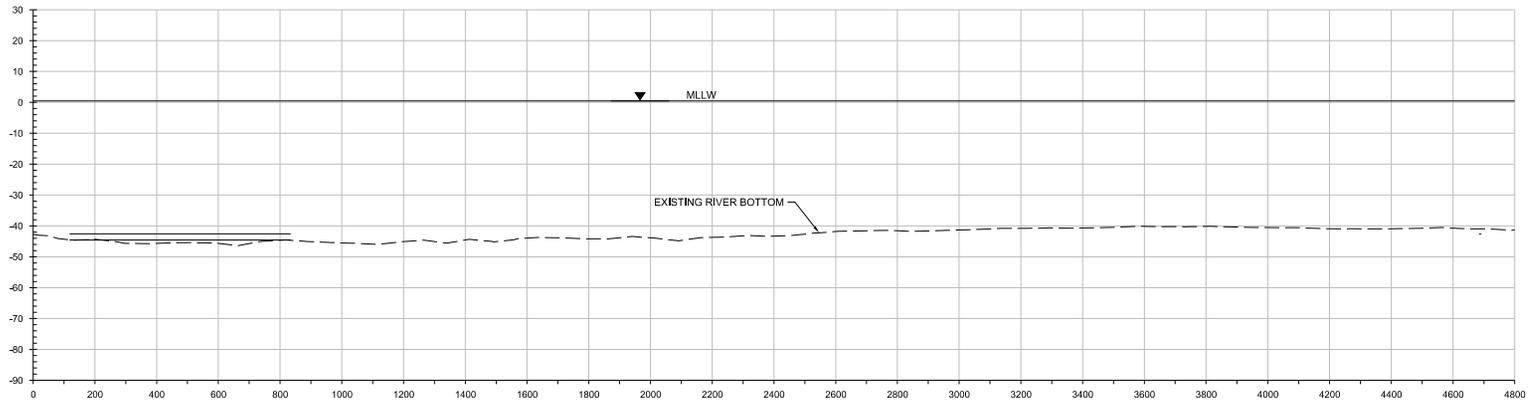
Q TURNING BASIN SECTION
1"=200' HORIZ
1"=20' VERT
B-1



P TURNING BASIN SECTION
1"=200' HORIZ
1"=20' VERT
B-1

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTION P AND Q

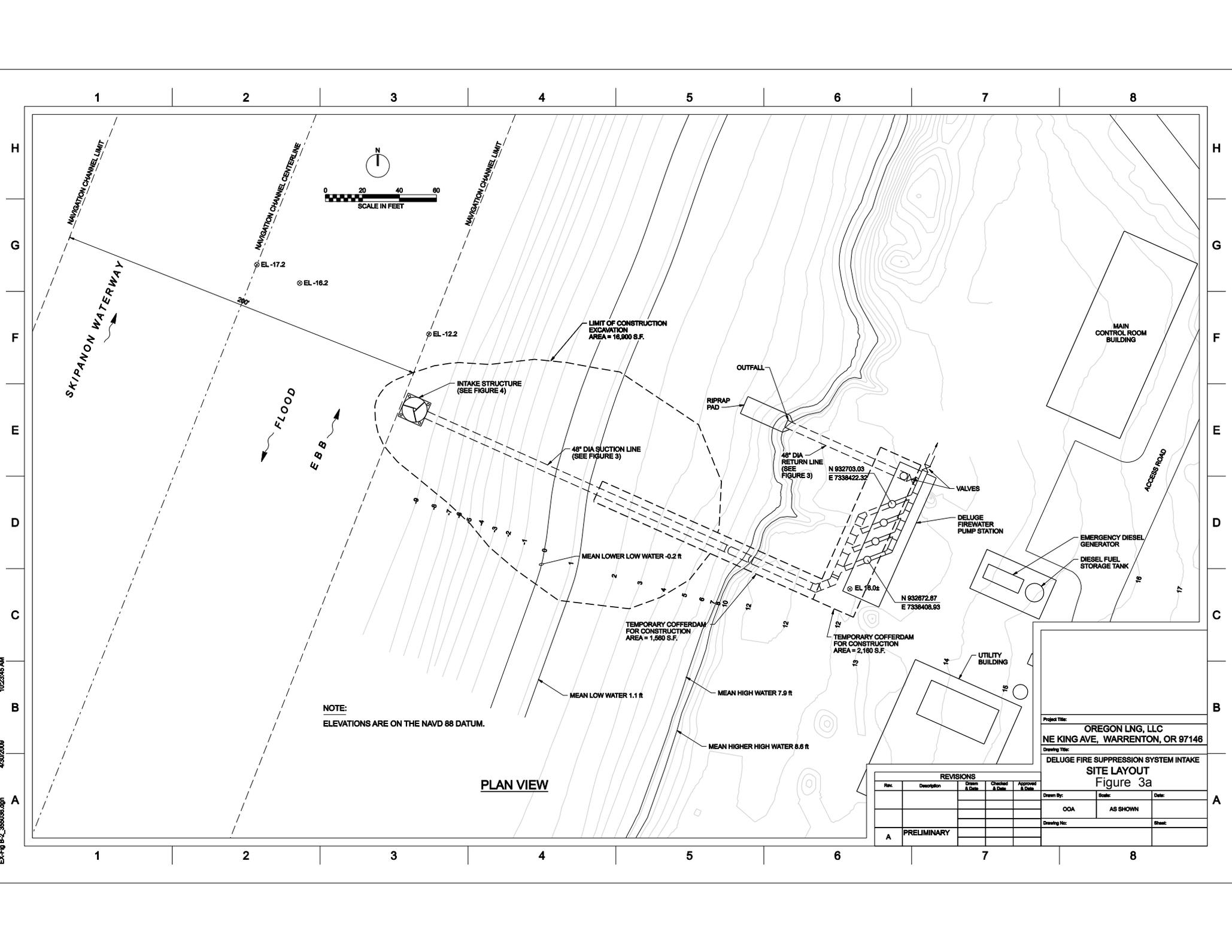
Figure 2j



TURNING BASIN SECTION
1"=200' HORIZ
1"=20' VERT

PROPOSED CROSS SECTIONS
AT DREDGING AREA
SECTION R

Figure 2k



NOTE:
ELEVATIONS ARE ON THE NAVD 88 DATUM.

PLAN VIEW

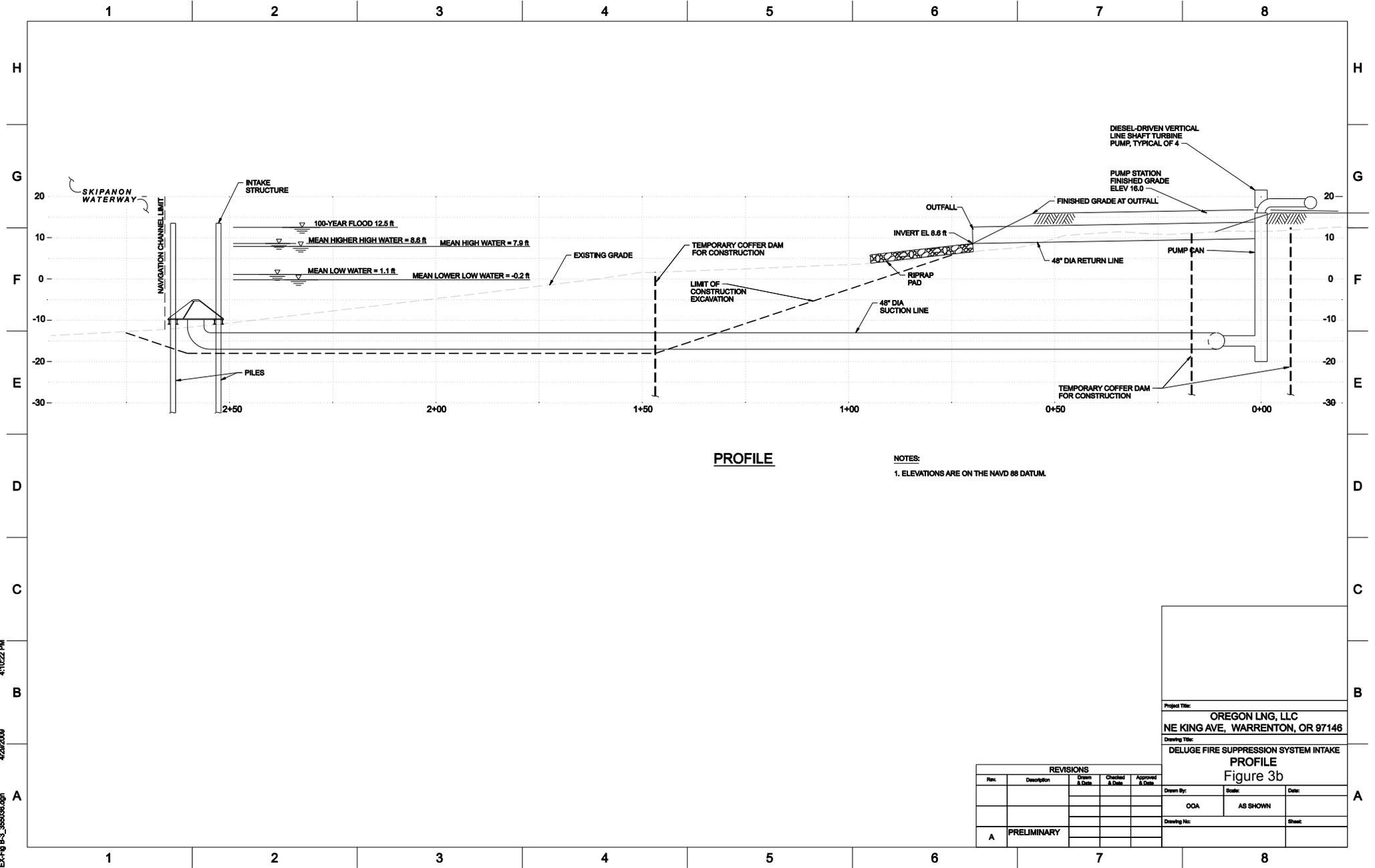
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OREGON LNG, LLC
NE KING AVE, WARRENTON, OR 97146

Drawing Title:
DELUGE FIRE SUPPRESSION SYSTEM INTAKE
SITE LAYOUT
Figure 3a

REVISIONS				
Rev.	Description	Drawn & Date	Checked & Date	Approved & Date
A	PRELIMINARY			

Drawn By:	Scale:	Date:
OOA	AS SHOWN	
Drawing No.:	Sheet:	

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PROFILE

NOTES:
1. ELEVATIONS ARE ON THE NAVD 88 DATUM.

Project Title:
OREGON LNG, LLC
NE KING AVE, WARRENTON, OR 97146

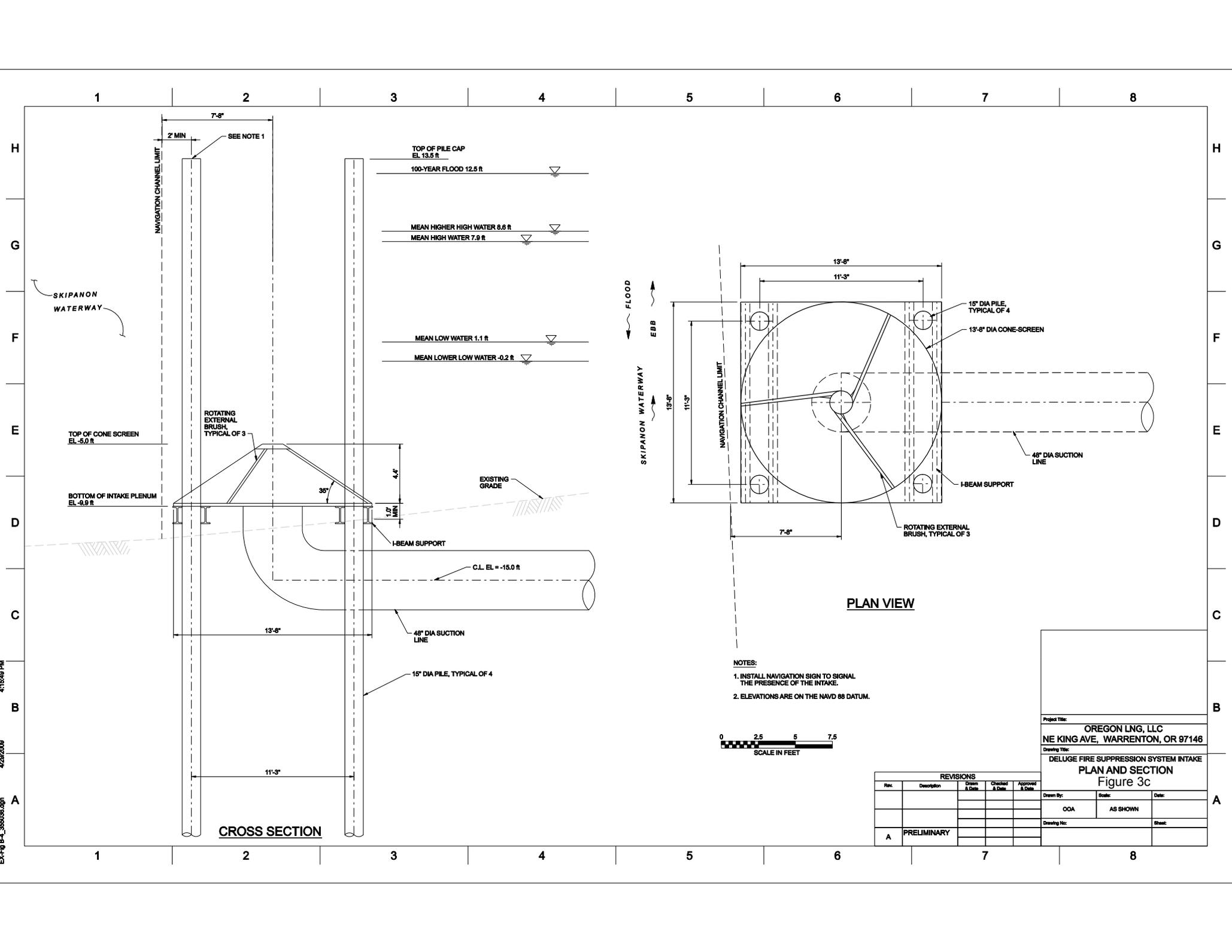
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DELUGE FIRE SUPPRESSION SYSTEM INTAKE
PROFILE
Figure 3b

REVISIONS				
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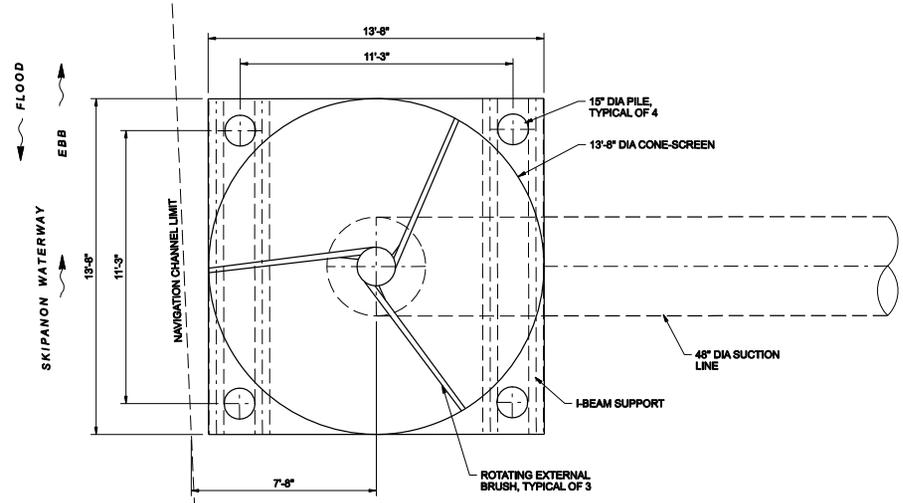
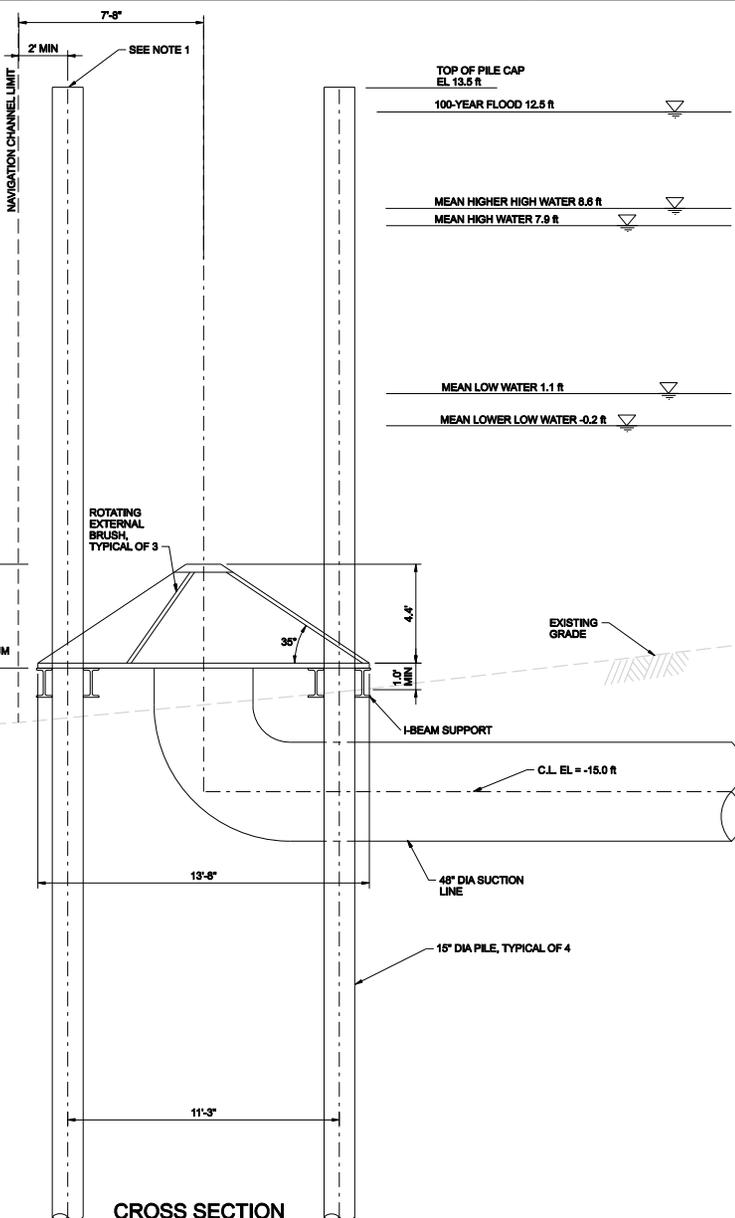


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1 2 3 4 5 6 7 8

H
G
F
E
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C
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H
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B
A



- NOTES:**
1. INSTALL NAVIGATION SIGN TO SIGNAL THE PRESENCE OF THE INTAKE.
 2. ELEVATIONS ARE ON THE NAVD 88 DATUM.



REVISIONS				
Rev.	Description	Drawn & Date	Checked & Date	Approved & Date
A	PRELIMINARY			

Project Title:
OREGON LNG, LLC
NE KING AVE, WARRENTON, OR 97146

Drawing Title:
DELUGE FIRE SUPPRESSION SYSTEM INTAKE
PLAN AND SECTION
Figure 3c

Drawn By: OOA Scale: AS SHOWN Date:

Checked By: Date:

Approved By: Date:

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PUBLIC

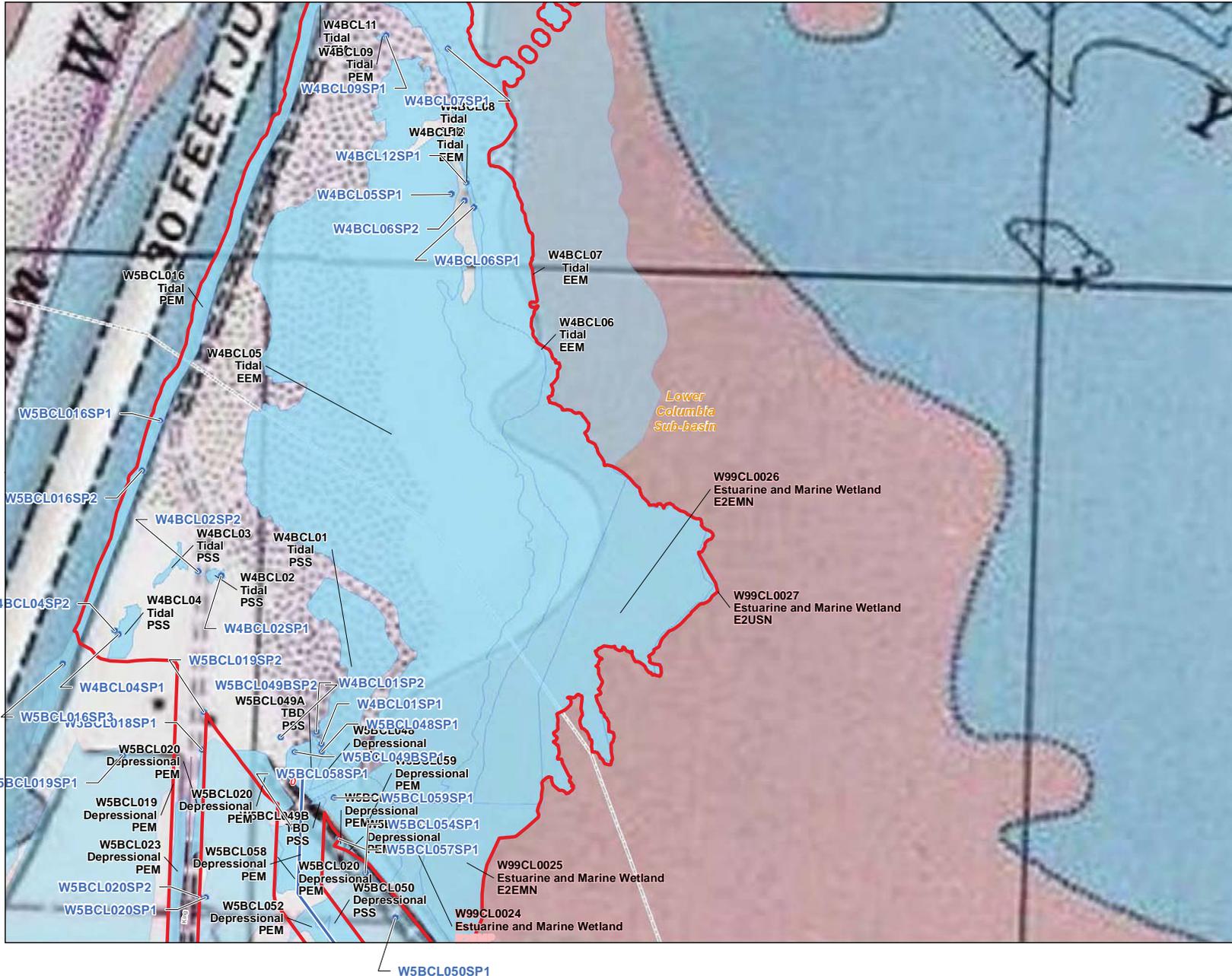


Figure 4a Wetland Delineation Map, Water and Wastewater Pipelines

LEGEND

- Pipeline Route
- Pipeline Route Milepost (Qtr Mile)
- New Access Road
- Wetland Study Area
- County Boundary
- Wetland Sample Point
- Stream
- Wetland

Note: Proxy data highlighted in pink

0 400 800
Feet

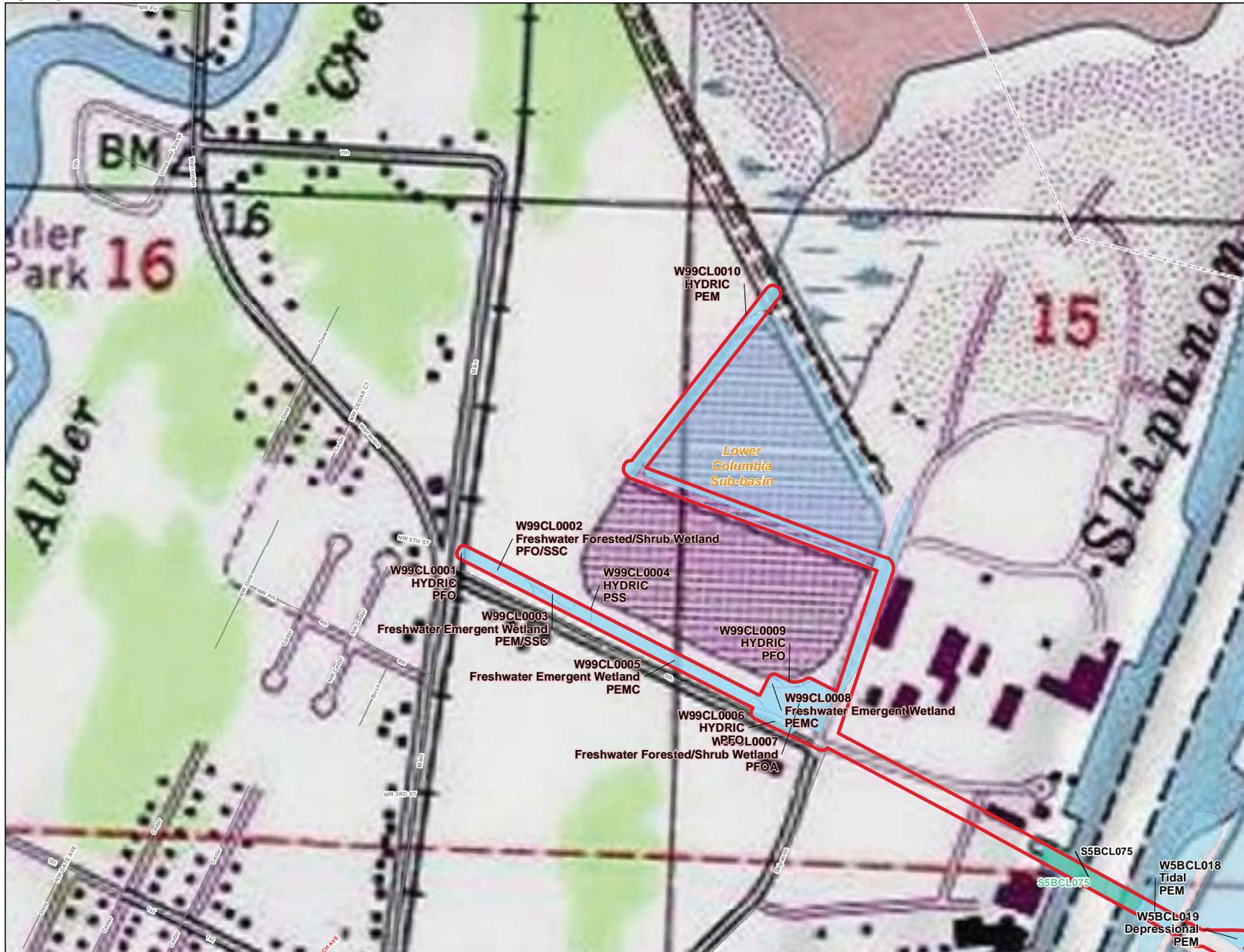
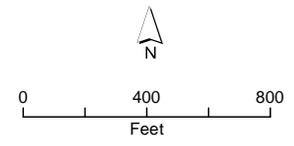
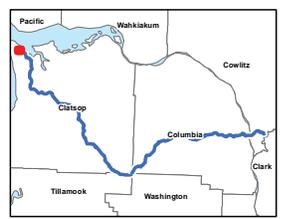


Figure 4b
Wetland Delineation Map,
Water and Wastewater
Pipelines

- LEGEND**
- Pipeline Route
 - Pipeline Route Milepost (Qtr Mile)
 - New Access Road
 - Wetland Study Area
 - County Boundary
 - Wetland Sample Point
 - Stream
 - Wetland

Note: Proxy data highlighted in pink



SSBCL075
SSBCL075
W5BCL018
Tidal
PEM
W5BCL019
Depressional
PEM

PUBLIC

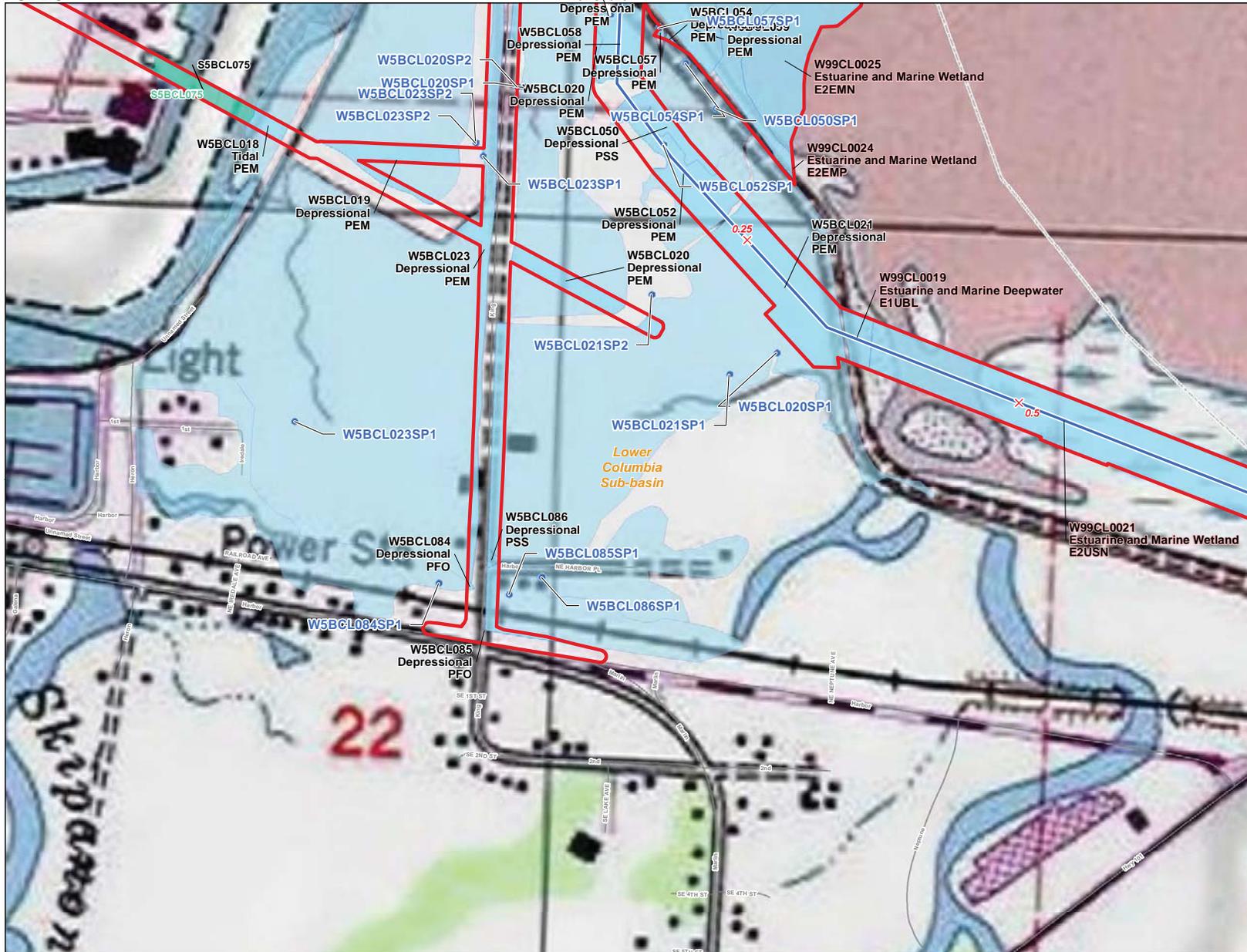
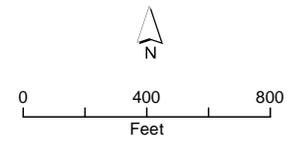
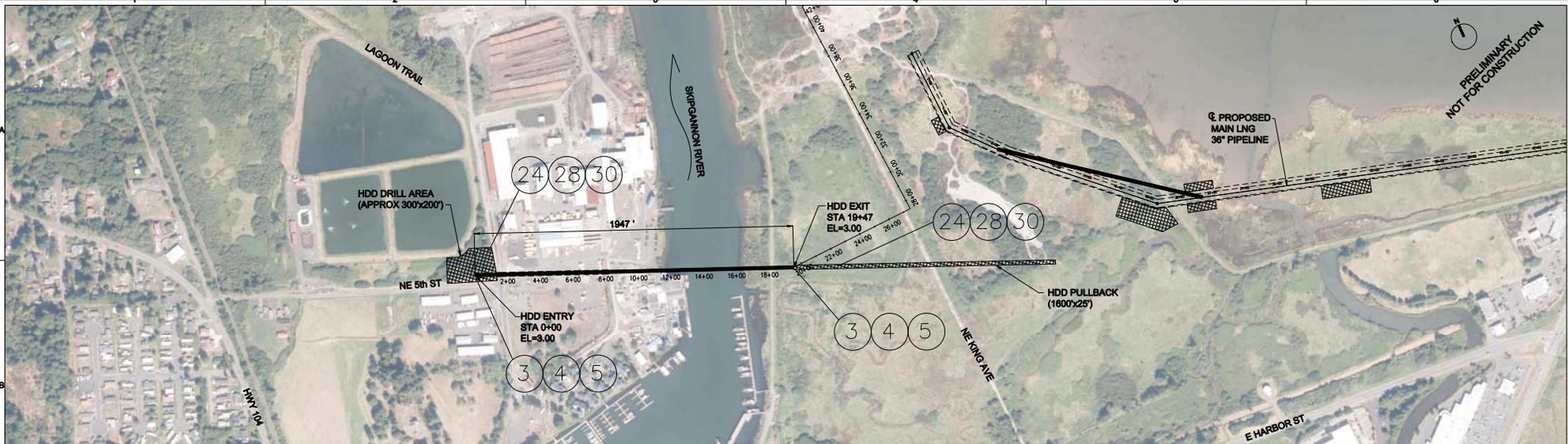


Figure 4c
 Wetland Delineation Map,
 Water and Wastewater
 Pipelines

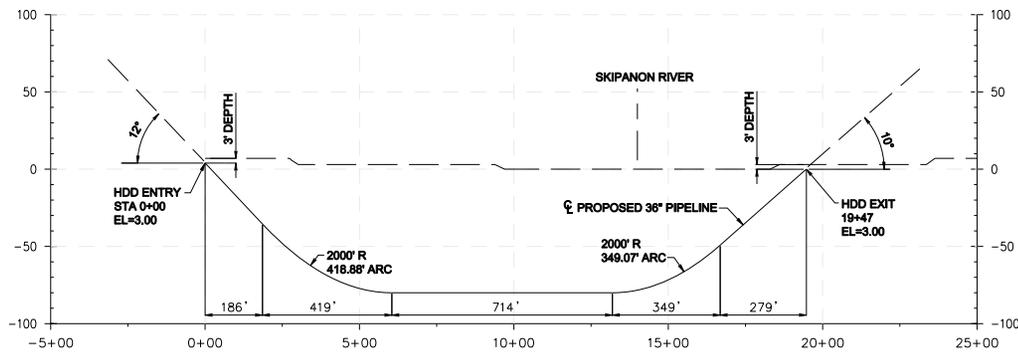
- LEGEND**
- Pipeline Route
 - x Pipeline Route Milepost (Qtr Mile)
 - New Access Road
 - Wetland Study Area
 - County Boundary
 - Wetland Sample Point
 - Stream
 - Wetland

Note: Proxy data highlighted in pink





STREAM ID	SSBCL075
BANK FULL WIDTH (FT)	85
BANK FULL DEPTH (FT)	30
GRADIENT (%)	0.0
VERTICAL SCOUR POTENTIAL	None
LATERAL CHANNEL MIGRATION POTENTIAL	Slight
ROSGEN CHANNEL TYPE	C6
BEDROCK (%)	No Data
BOULDER (%)	No Data
COBBLE (%)	No Data
RUBBLE (%)	No Data
GRAVEL (%)	No Data
FINES (%)	No Data



PROFILE
 HORIZ: 1"=200'
 VERT: 1"=50'

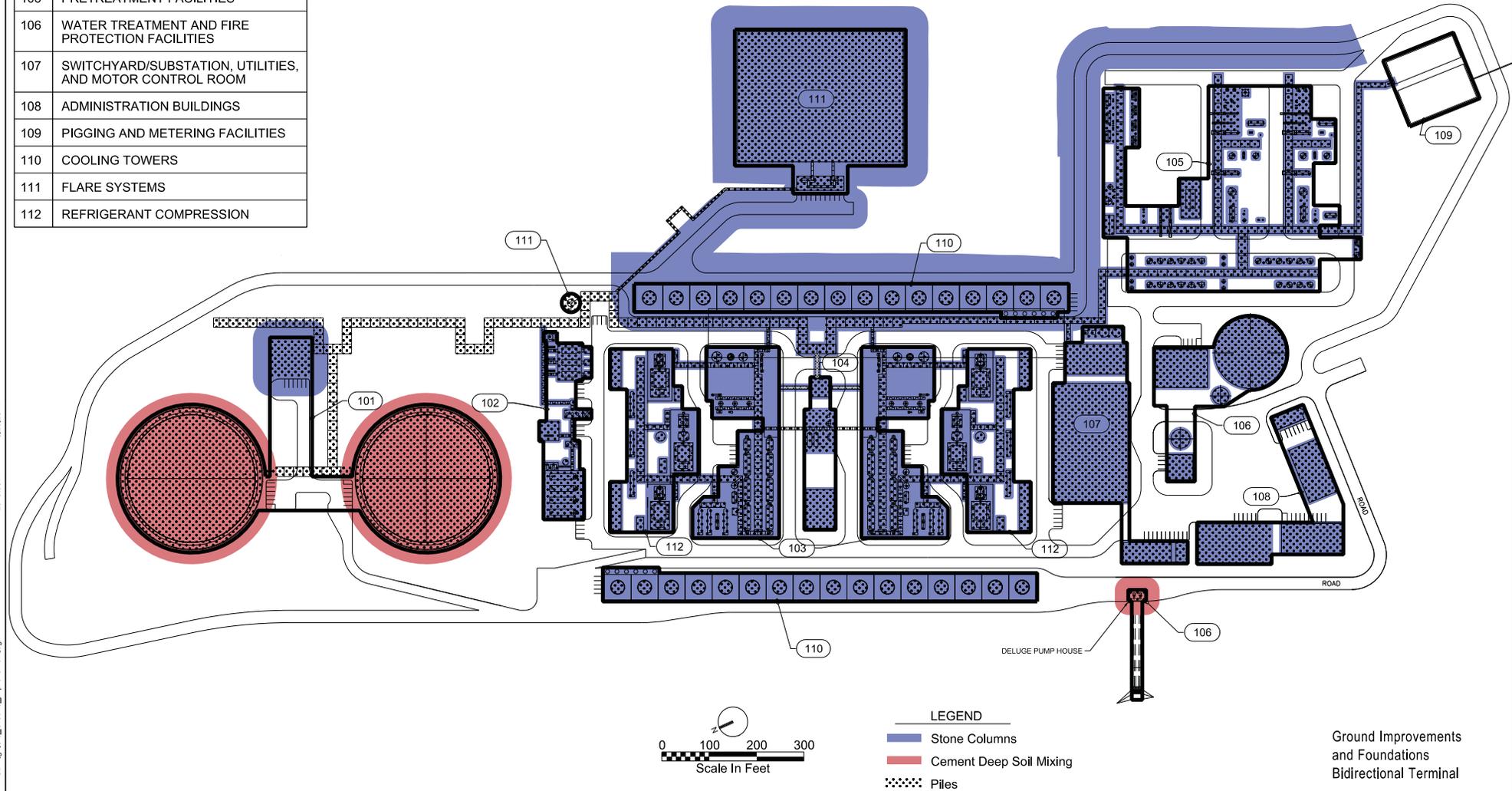
Figure 5

NO. DATE REVISION BY APVD					MATERIAL		SCALE		LEGEND				OREGON PIPELINE COMPANY WARRENTON TO WOODLAND PIPELINE		HDD EXHIBIT - SKIPANON RIVER FOR TERMINAL UTILITIES	
DSGN	DR	CHK	APVD	BY	APVD			1"=300'	TWO (TEMPORARY) WORK SPACE TEMPORARY WORK SPACE PROPOSED ALIGNMENT MAIN LINE VALVE HDD DIRECTIONAL DRILLING ACCESS POINT WETLAND BOUNDARY	COUNTY LINE PERMANENT EASEMENT LINE ALL PROPERTY LINE POINT OF INTERSECTION SECTION LINE ROADWAY CENTERLINE CITY LIMIT LINE PROPERTY LINE UTILITY LINE OVERHEAD POWER LINE	from STA: _____ to STA: _____ from MP: _____ to MP: _____		PROJ: 355036 DATE: AUGUST, 2012 DWG: _____ REVISION: _____			
T.COTTEN	Z.BROWN	M.BRICKER		XXX												

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PUBLIC

KEY	DESCRIPTION
101	LNG STORAGE TANKS
102	REGASIFICATION FACILITIES
103	LIQUEFACTION FACILITIES
104	REFRIGERANT STORAGE
105	PRETREATMENT FACILITIES
106	WATER TREATMENT AND FIRE PROTECTION FACILITIES
107	SWITCHYARD/SUBSTATION, UTILITIES, AND MOTOR CONTROL ROOM
108	ADMINISTRATION BUILDINGS
109	PIGGING AND METERING FACILITIES
110	COOLING TOWERS
111	FLARE SYSTEMS
112	REFRIGERANT COMPRESSION



8/23/25 AM

2015/05/17

PUB-Fig1.5-5_Ground_Improvement.dgn

355036

Ground Improvements and Foundations Bidirectional Terminal

Figure 6

Figure 7
Oregon LNG Terminal
Existing Conditions on the
East Skipanon Peninsula



LEGEND

- - - Ordinary High Water Elevation (9.85 feet NAVD88)
- - - Mean High Water Elevation (7.75 feet NAVD88)
- Tax Lot
- Wetland

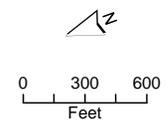


Figure 8

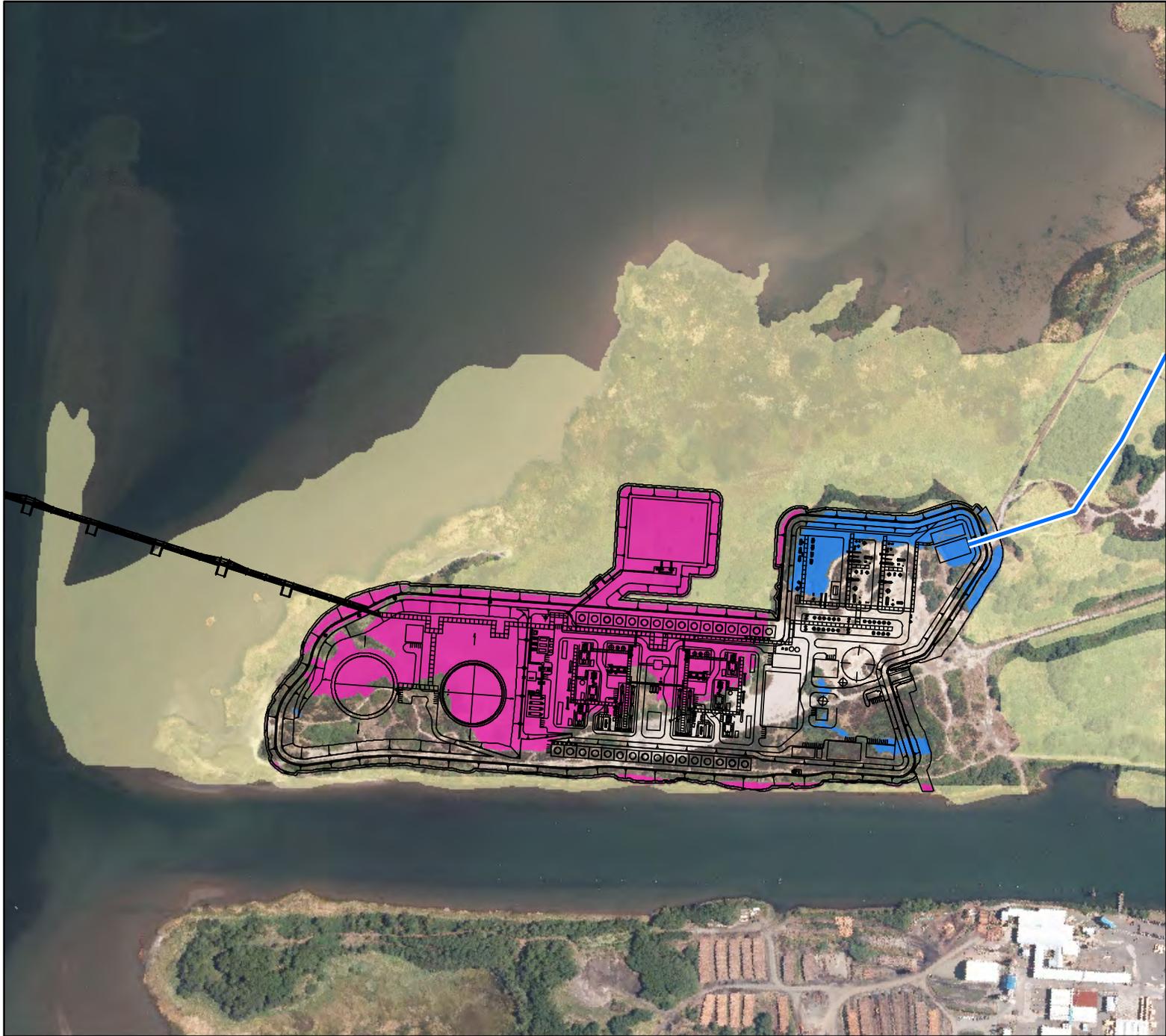
Figure does not show wetlands on the west bank of the Skipanon River because this area was outside the study area.

Legend

-  Pipeline Route
-  Wetland
-  Estuarine
-  Palustrine

Temporary and Permanent Wetland Disturbance

Note: Impacts encompass the permanent footprint for Terminal operation and the temporary footprint for construction. The Terminal water/wastewater lines, wastewater pump station, and access road are not included.



Area of Interest



APPENDIX E

OREGON LNG PIPELINE FACILITY MAPS AND DRAWINGS

Appendix E1: Pipeline Location Maps; Construction Staging/Storage

Areas Appendix E2: Pipeline Construction Right-of-way Cross Sections

Appendix E3: Pipeline Route Minor Variations

Appendix E4: Additional Temporary Workspace for the Pipeline; Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Appendix E5: Maps and Table of Access Roads

Appendix E6: Site-specific Residential Construction Plans

APPENDIX E1

PIPELINE LOCATION MAPS; CONSTRUCTION STAGING/STORAGE AREAS



Figure 1
Aerial Maps of the Pipeline

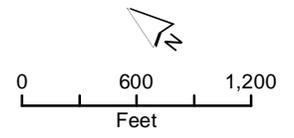
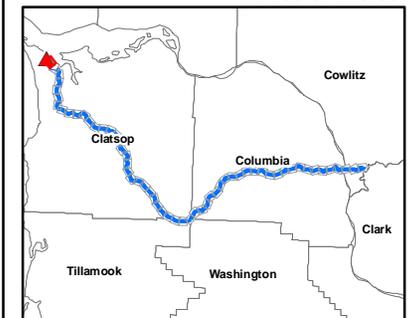
LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest



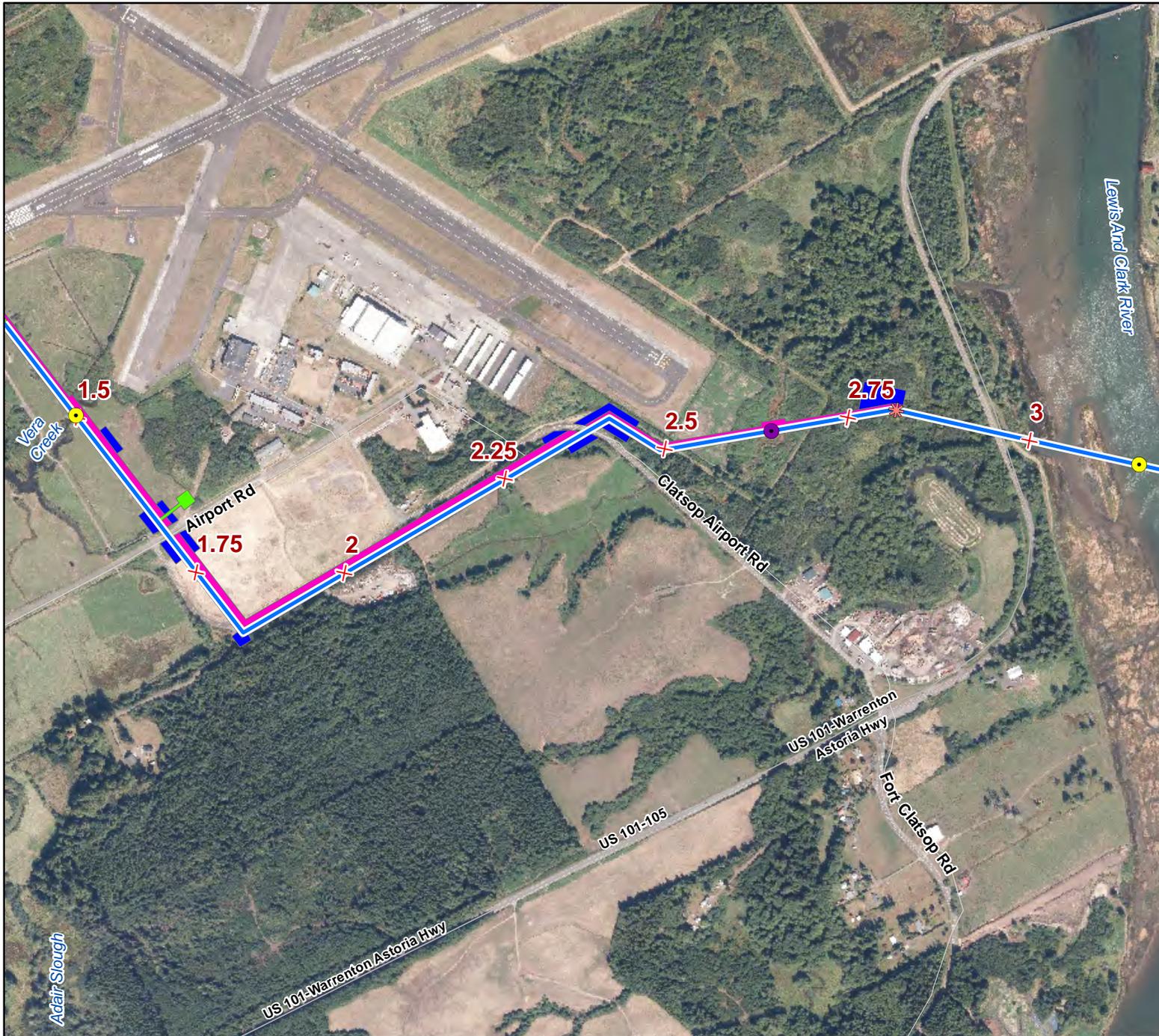
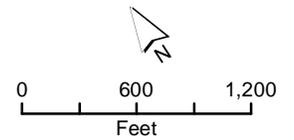


Figure 2
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✂ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



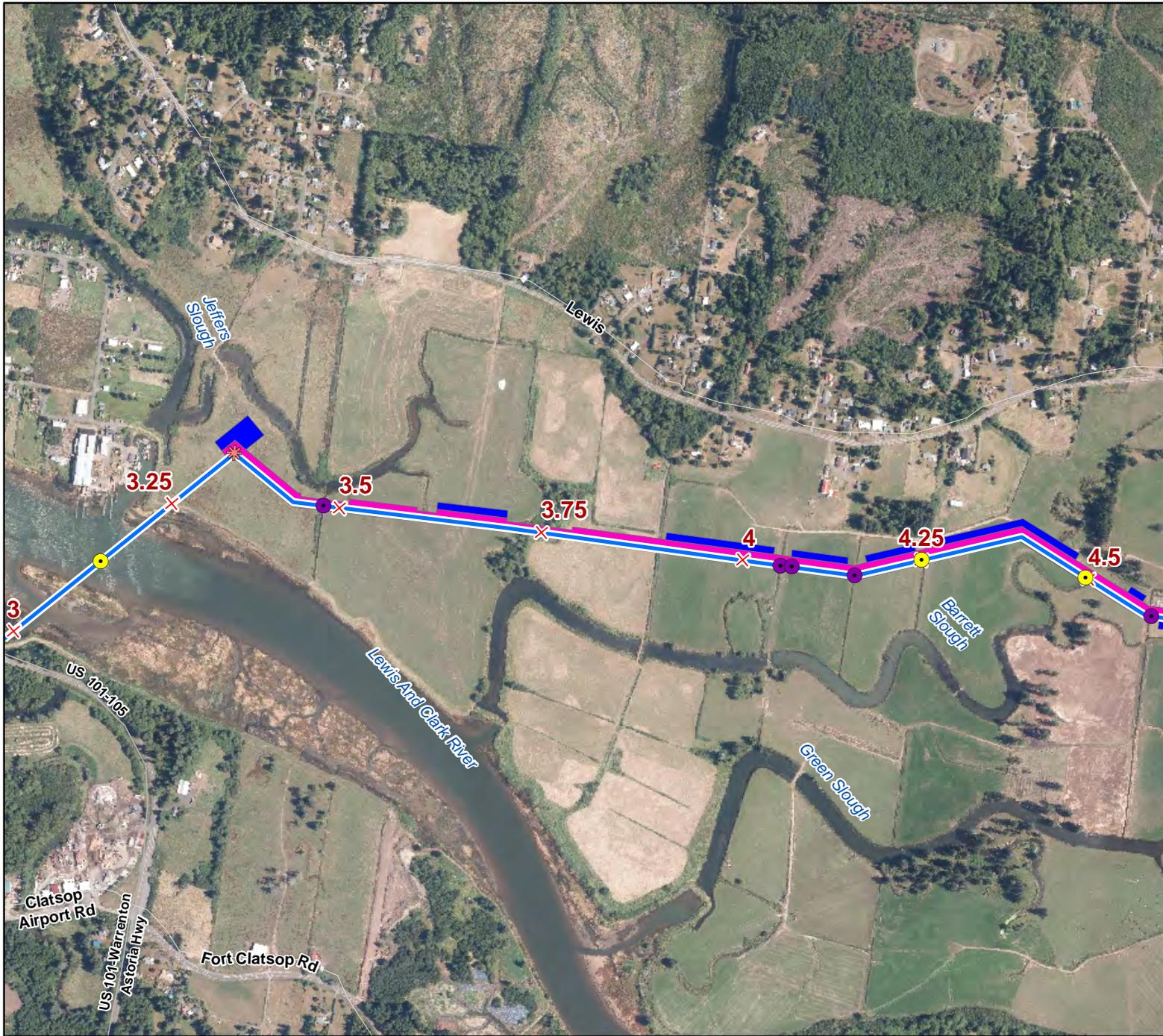
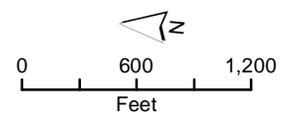
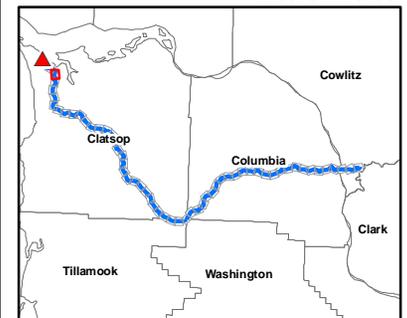


Figure 3
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✖ HDD Entry/Exit Point
 - ✖ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



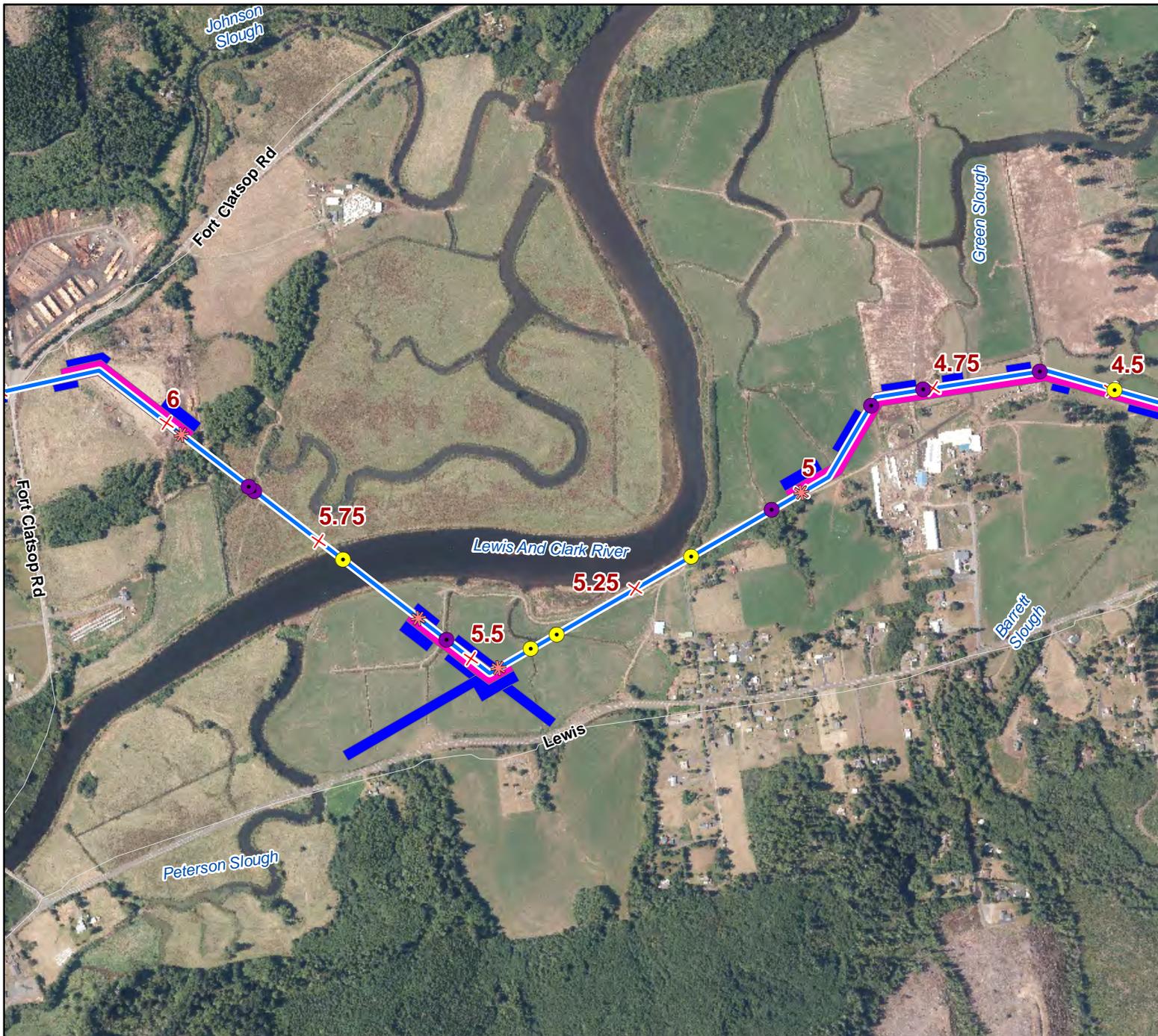
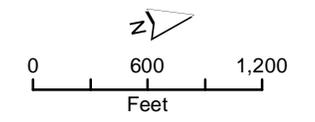
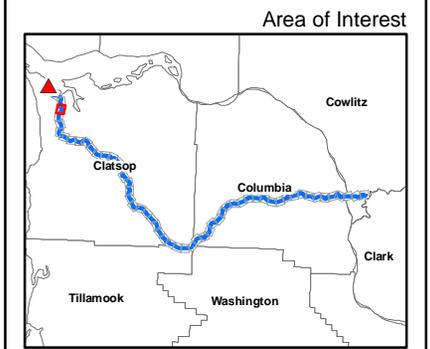


Figure 4
Aerial Maps of the Pipeline

- LEGEND**
- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace



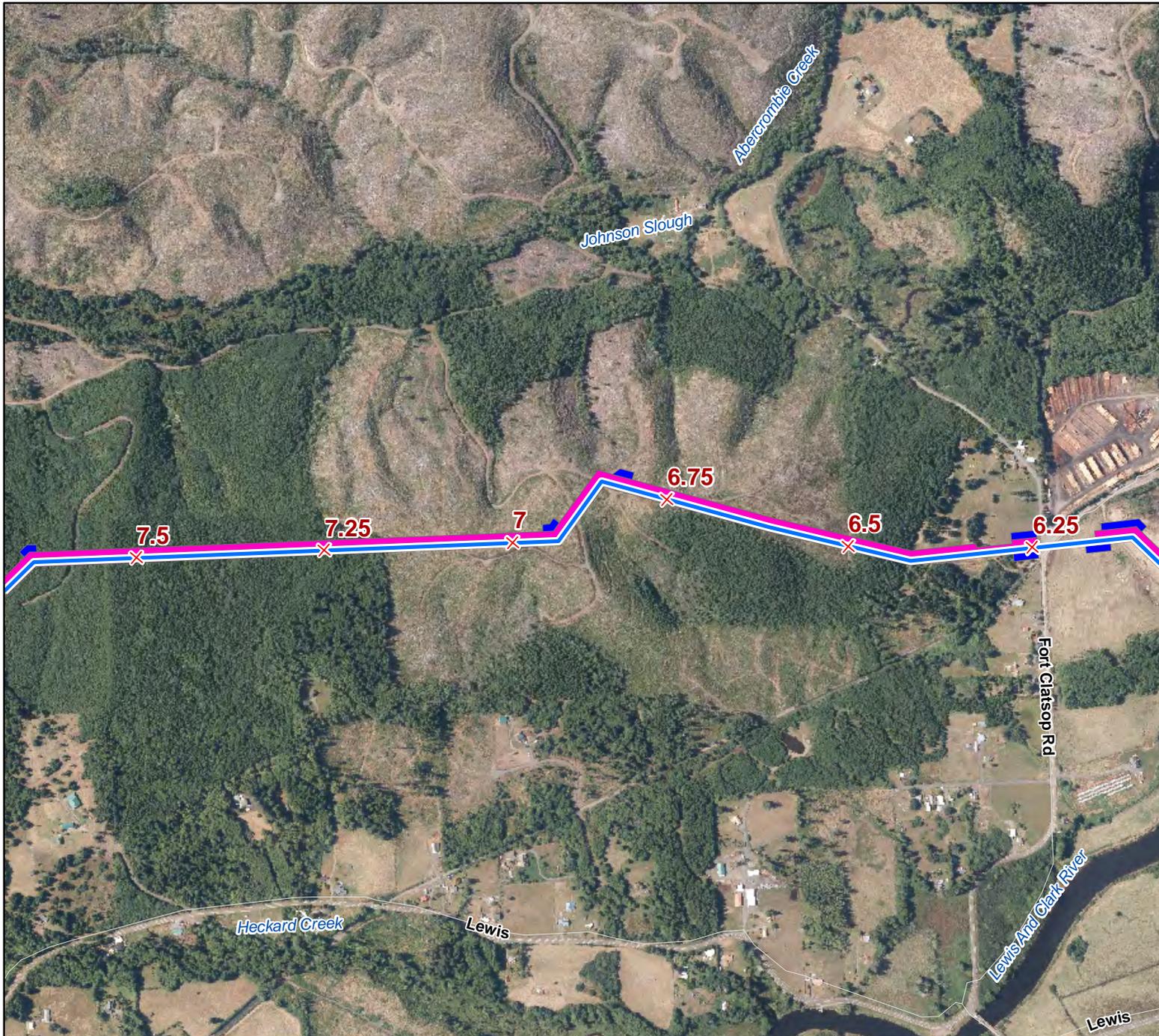


Figure 5
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

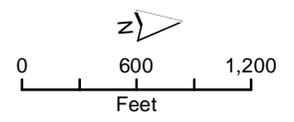
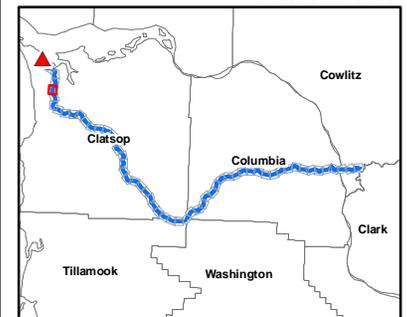


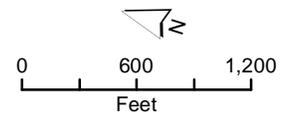
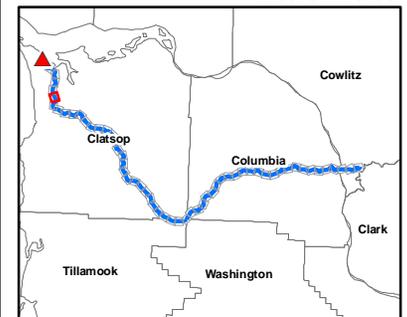


Figure 6
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✕ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



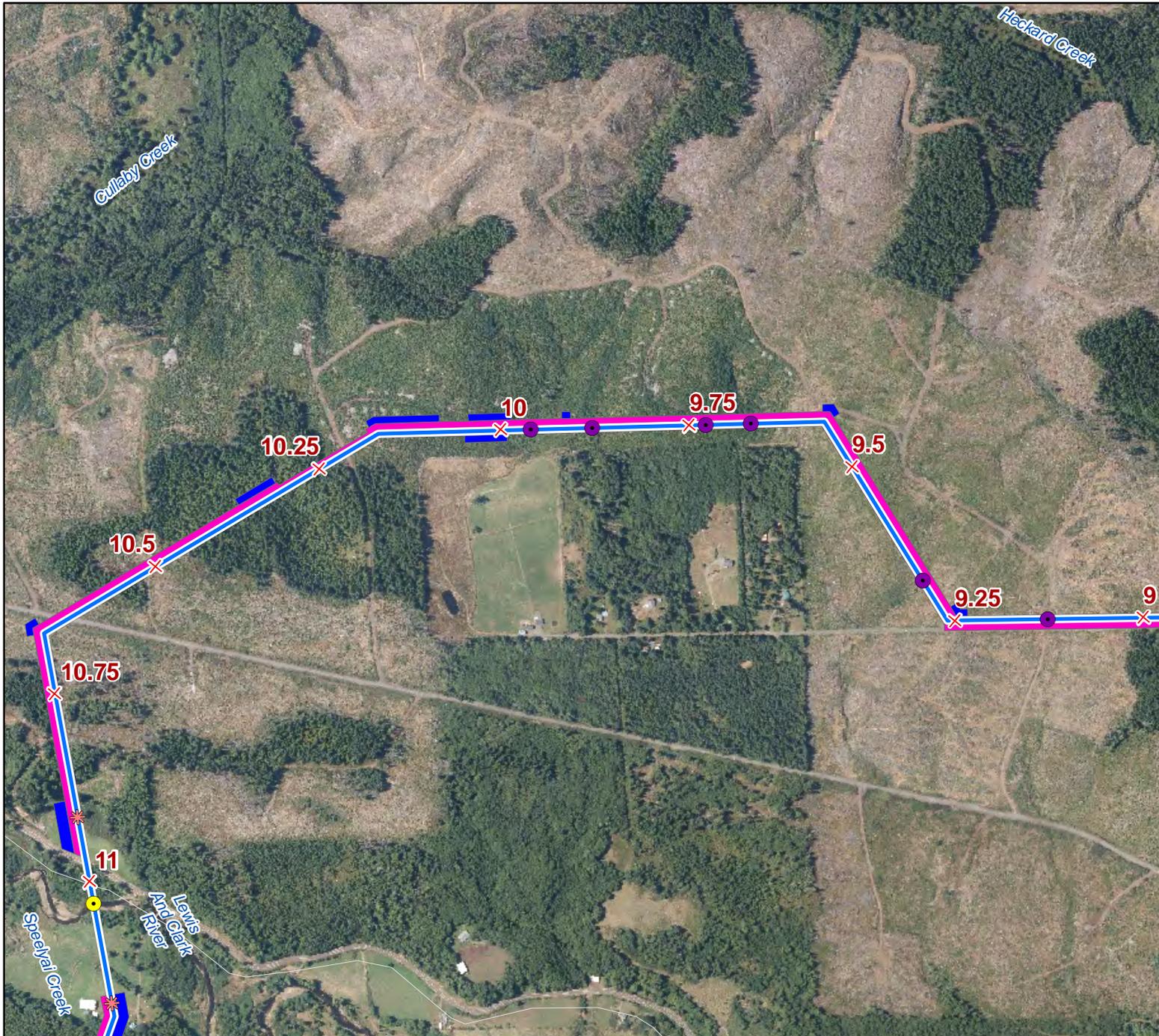


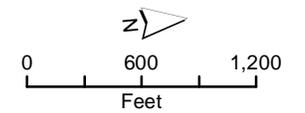
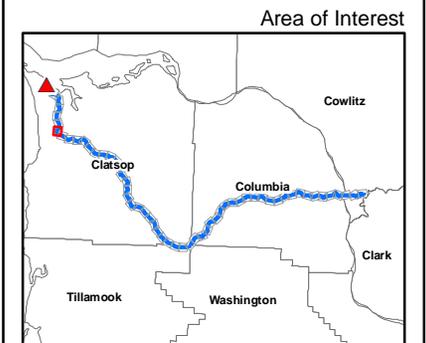
Figure 7
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace



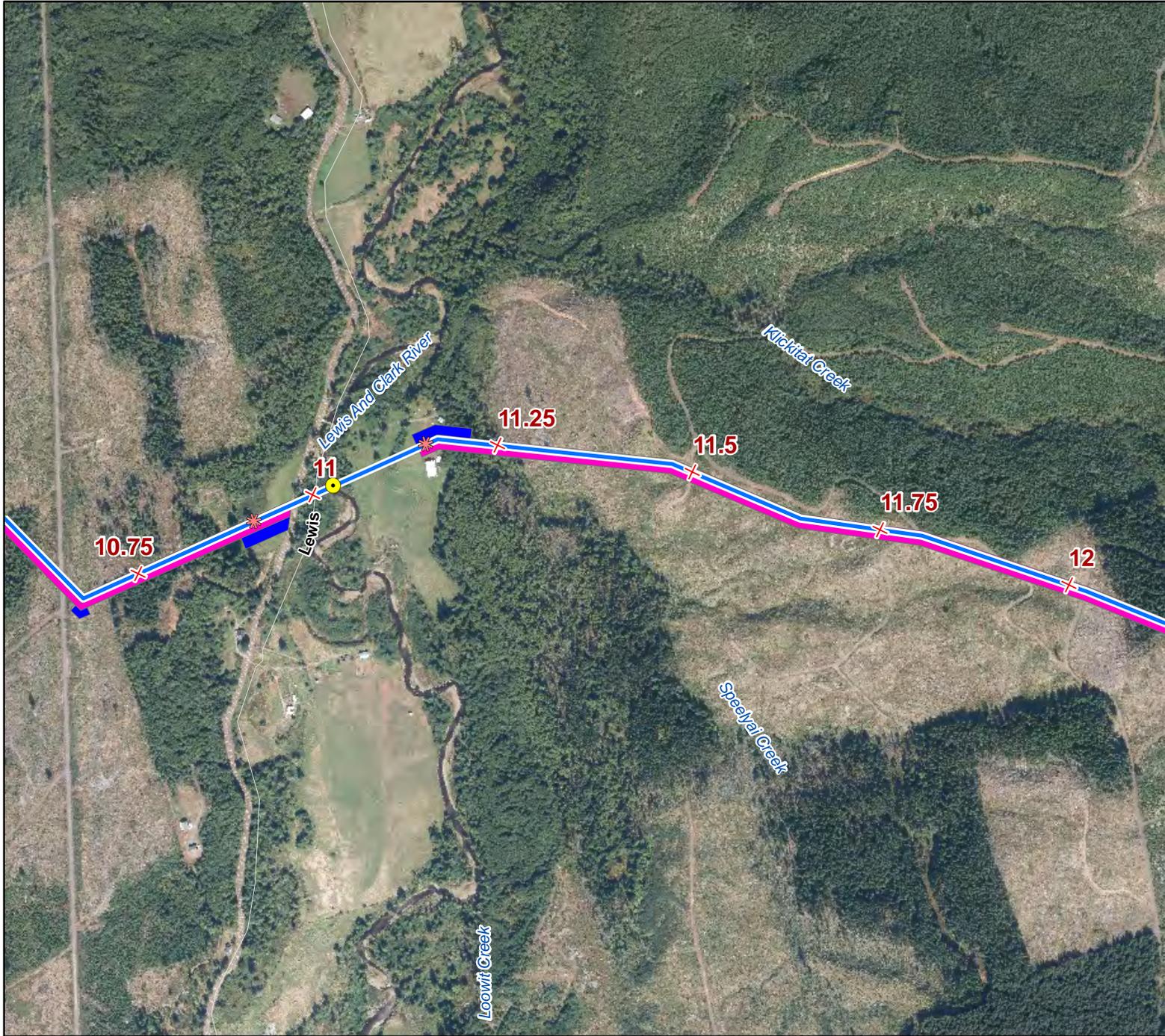
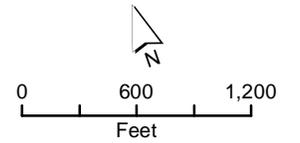
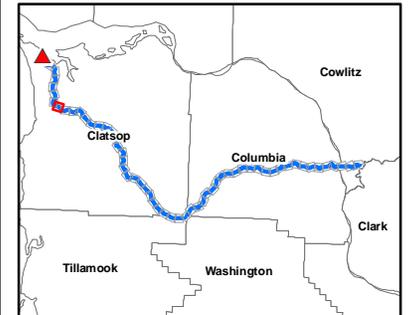


Figure 8
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



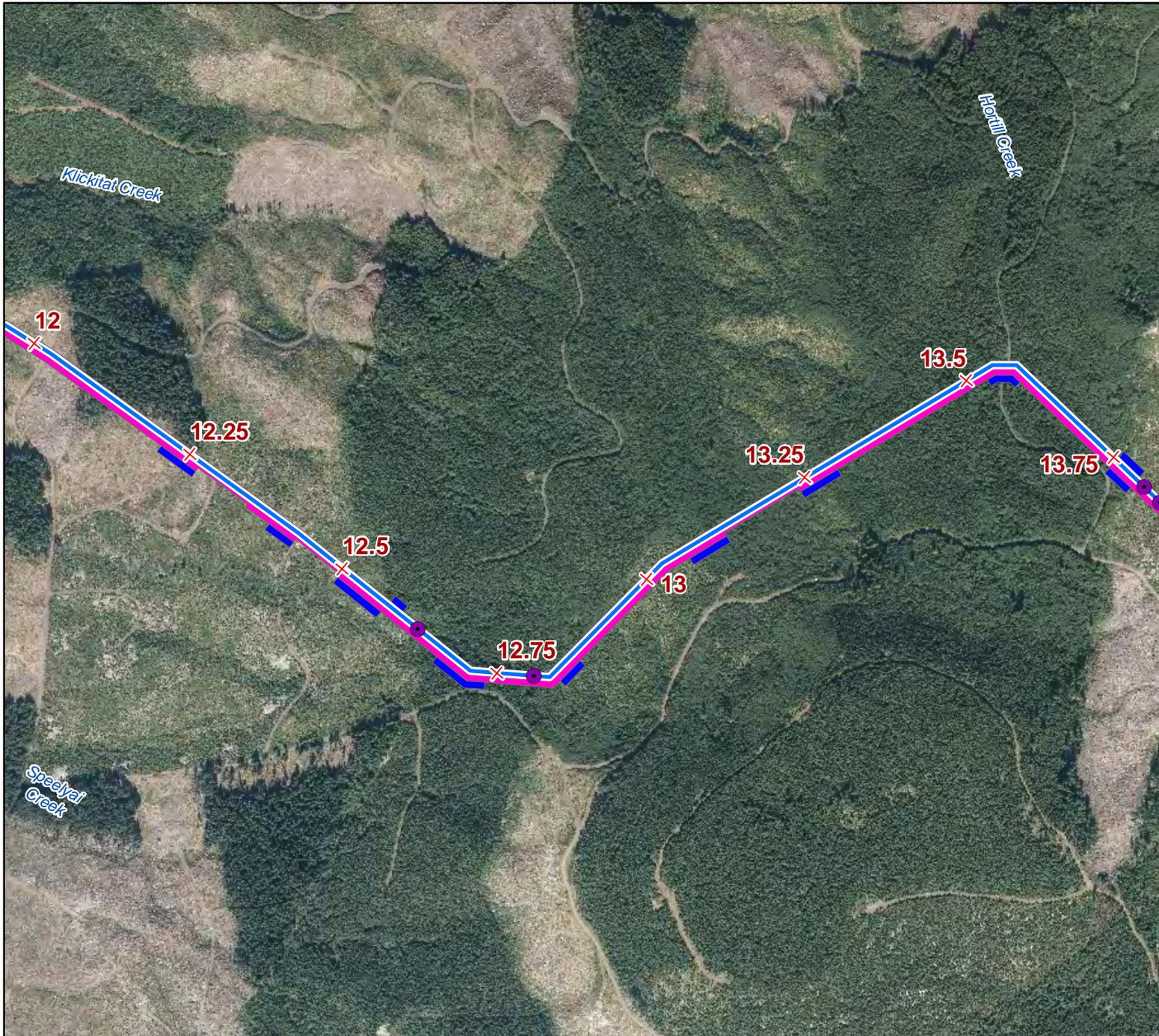


Figure 9
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✕ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

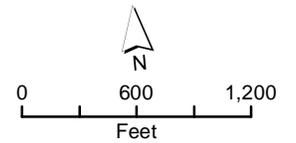
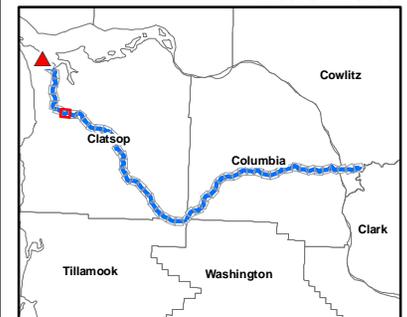


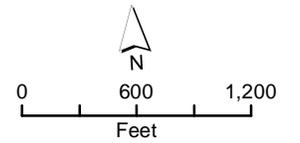


Figure 10
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



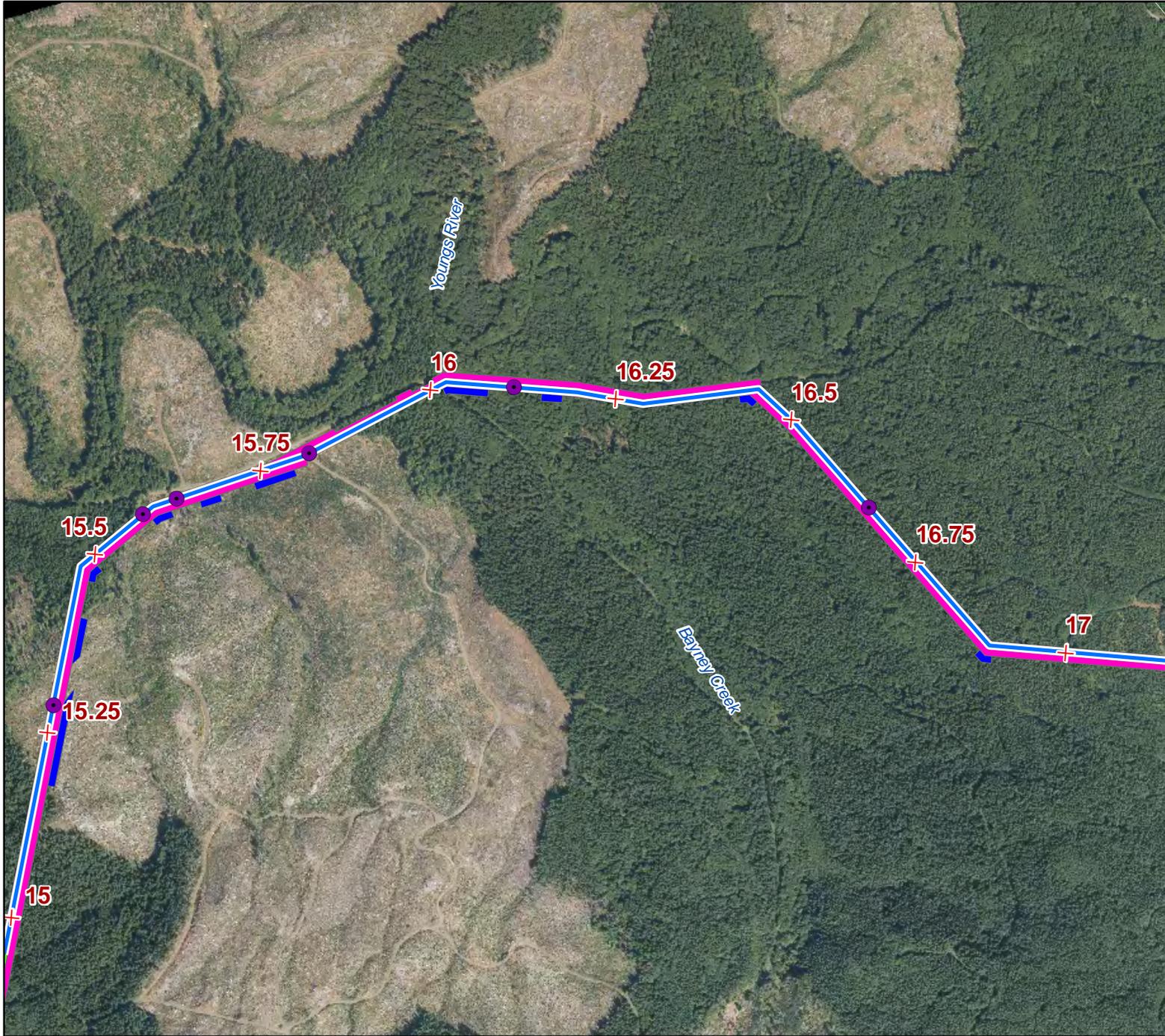
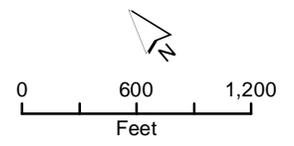
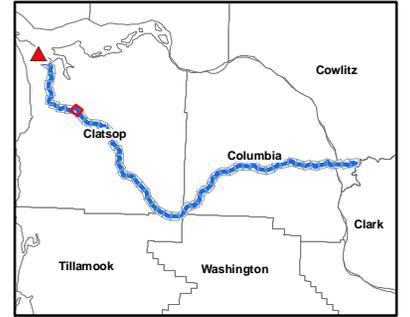


Figure 11
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - + Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



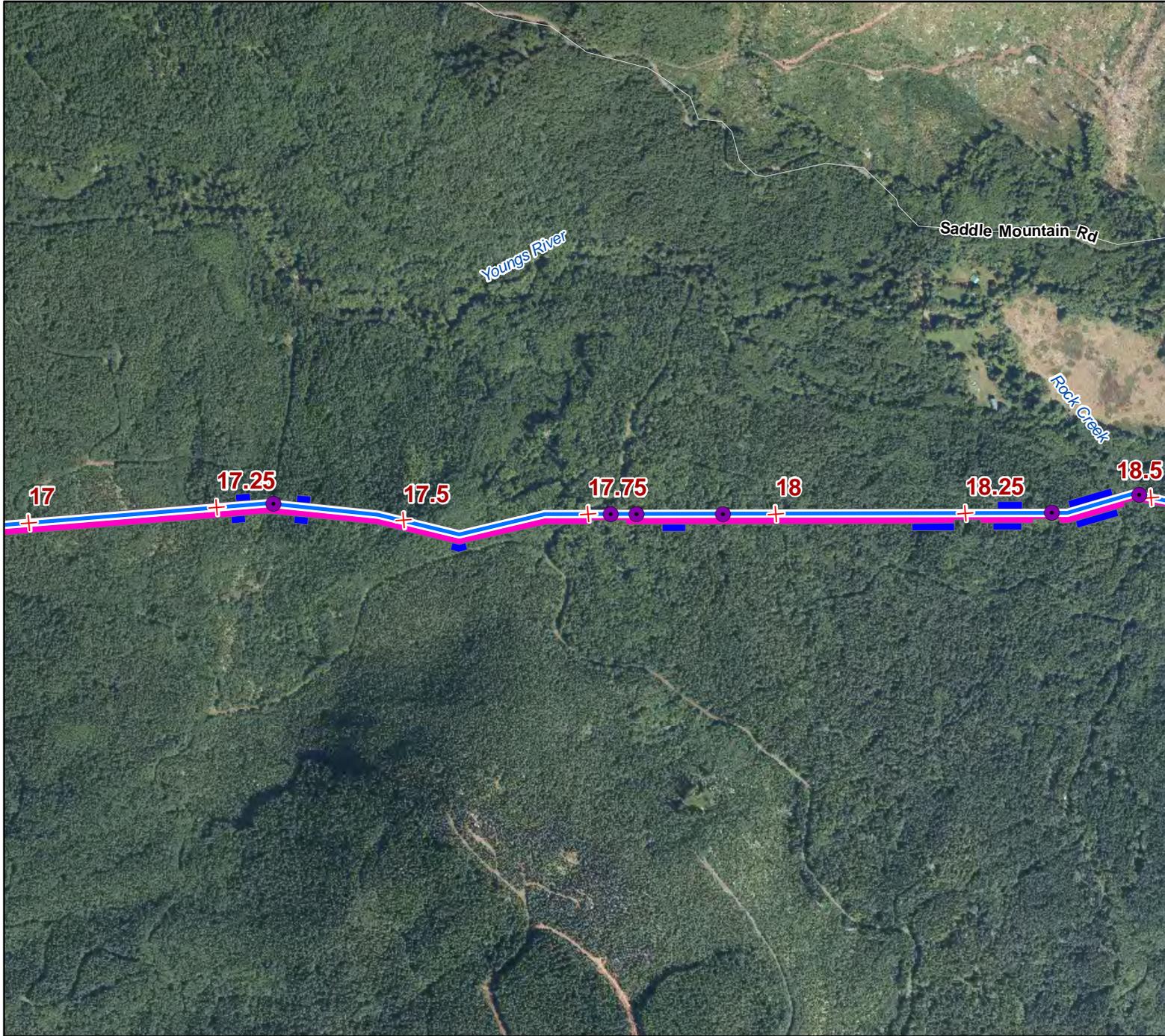
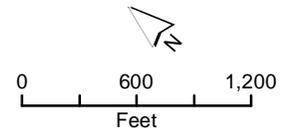


Figure 12
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - × Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



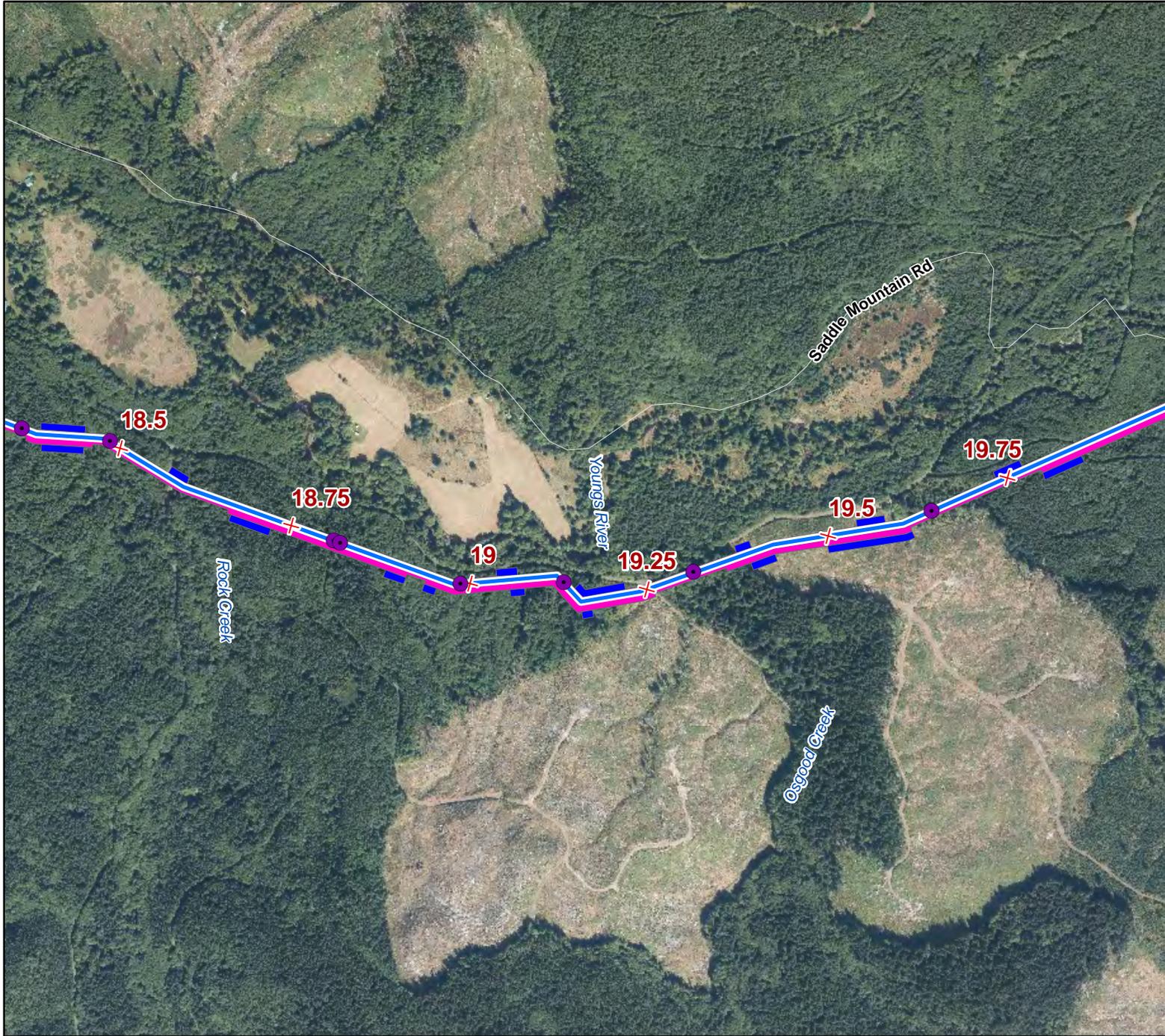


Figure 13
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

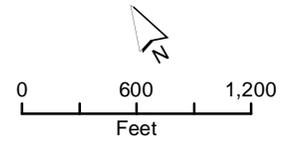
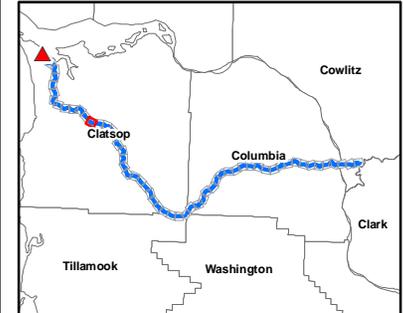


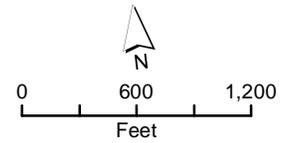


Figure 14
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



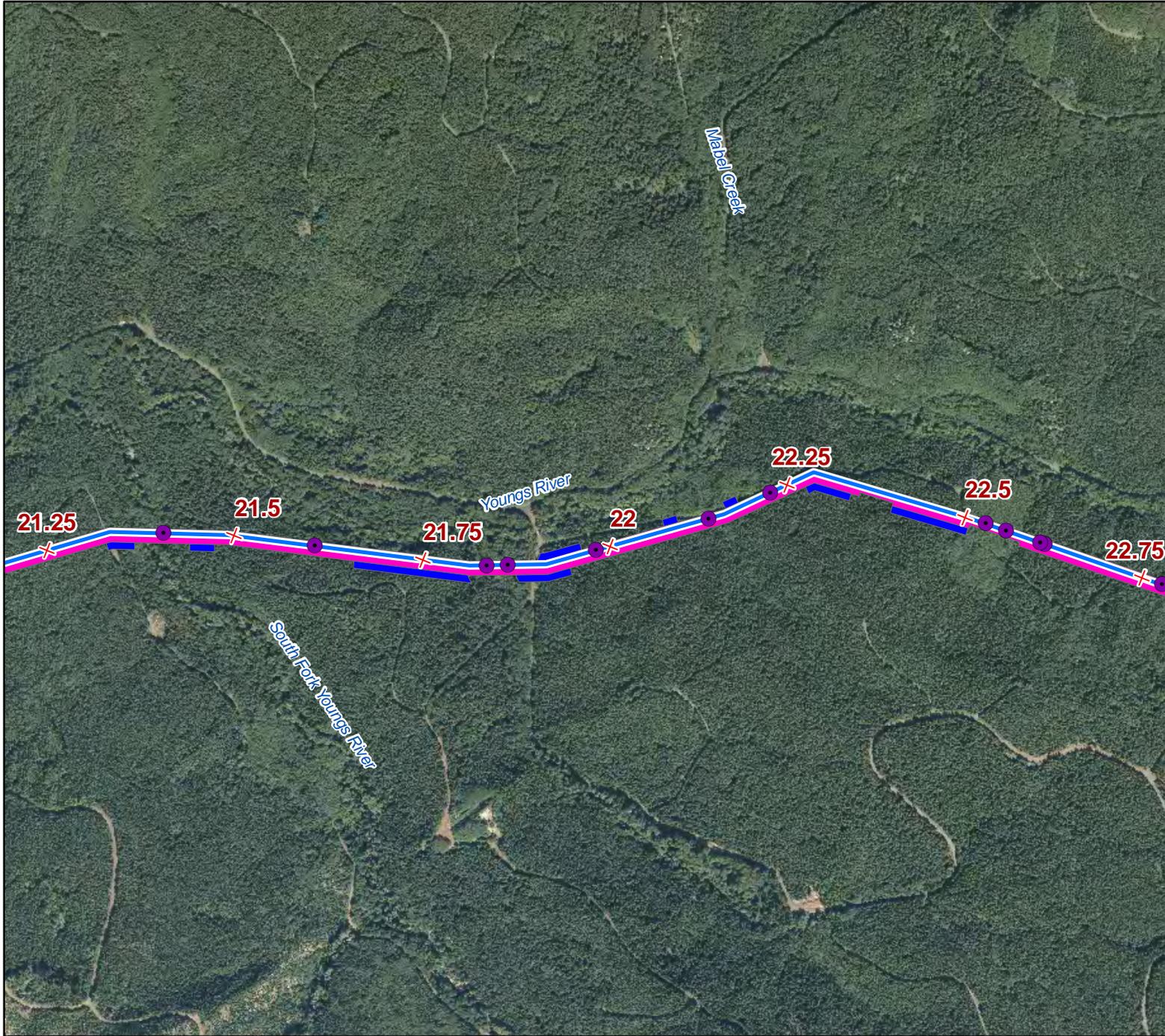
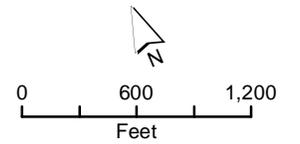


Figure 15
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



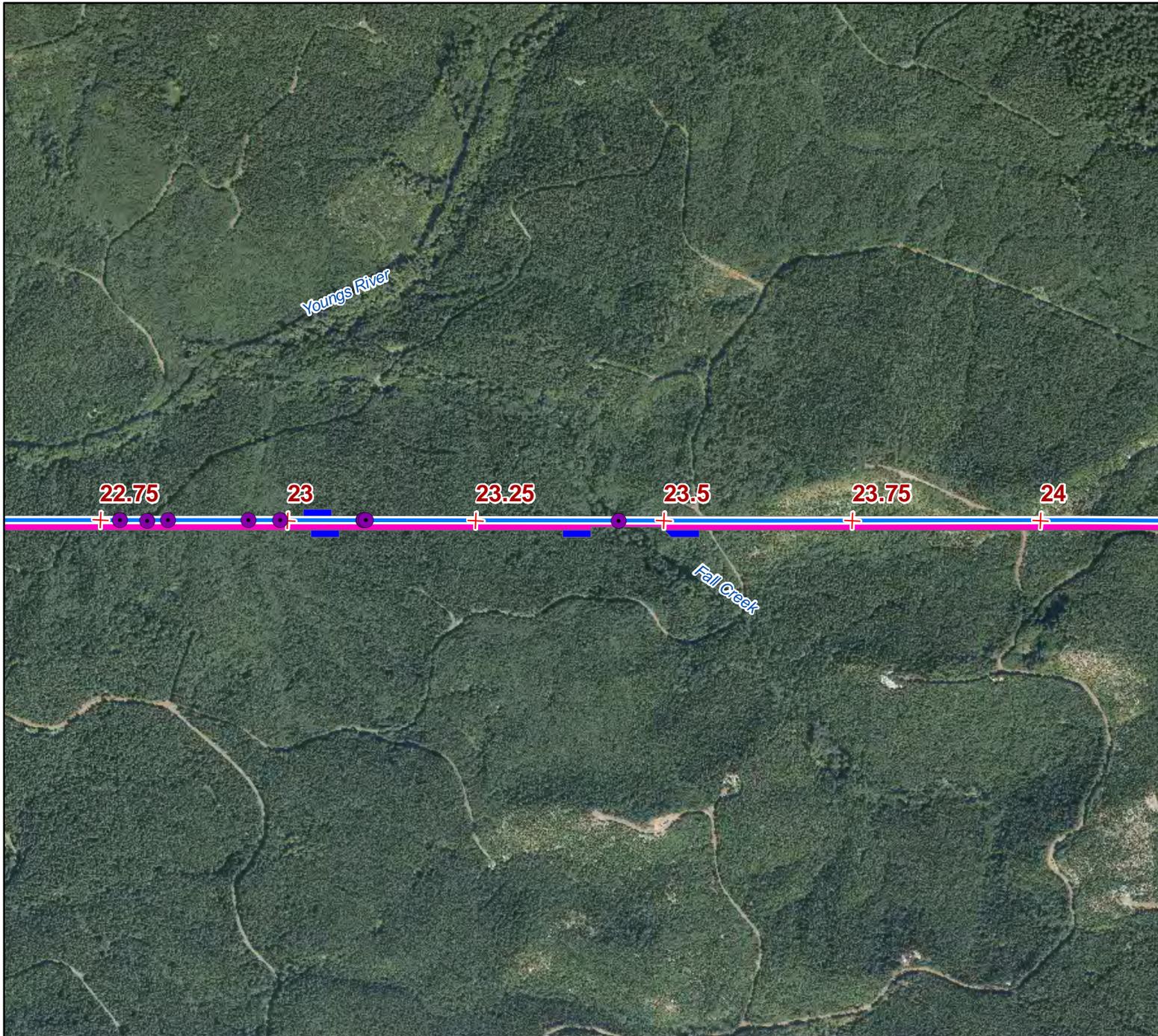


Figure 16
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

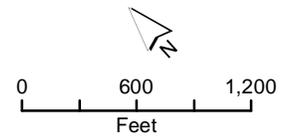
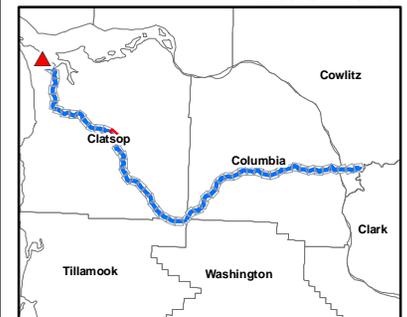


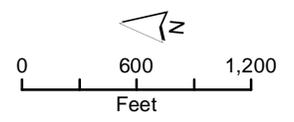
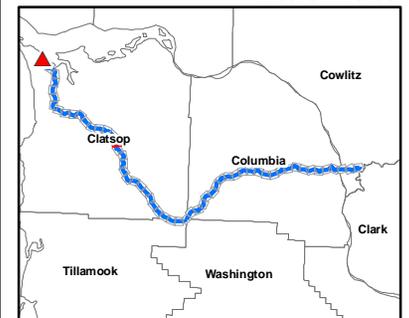


Figure 17
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



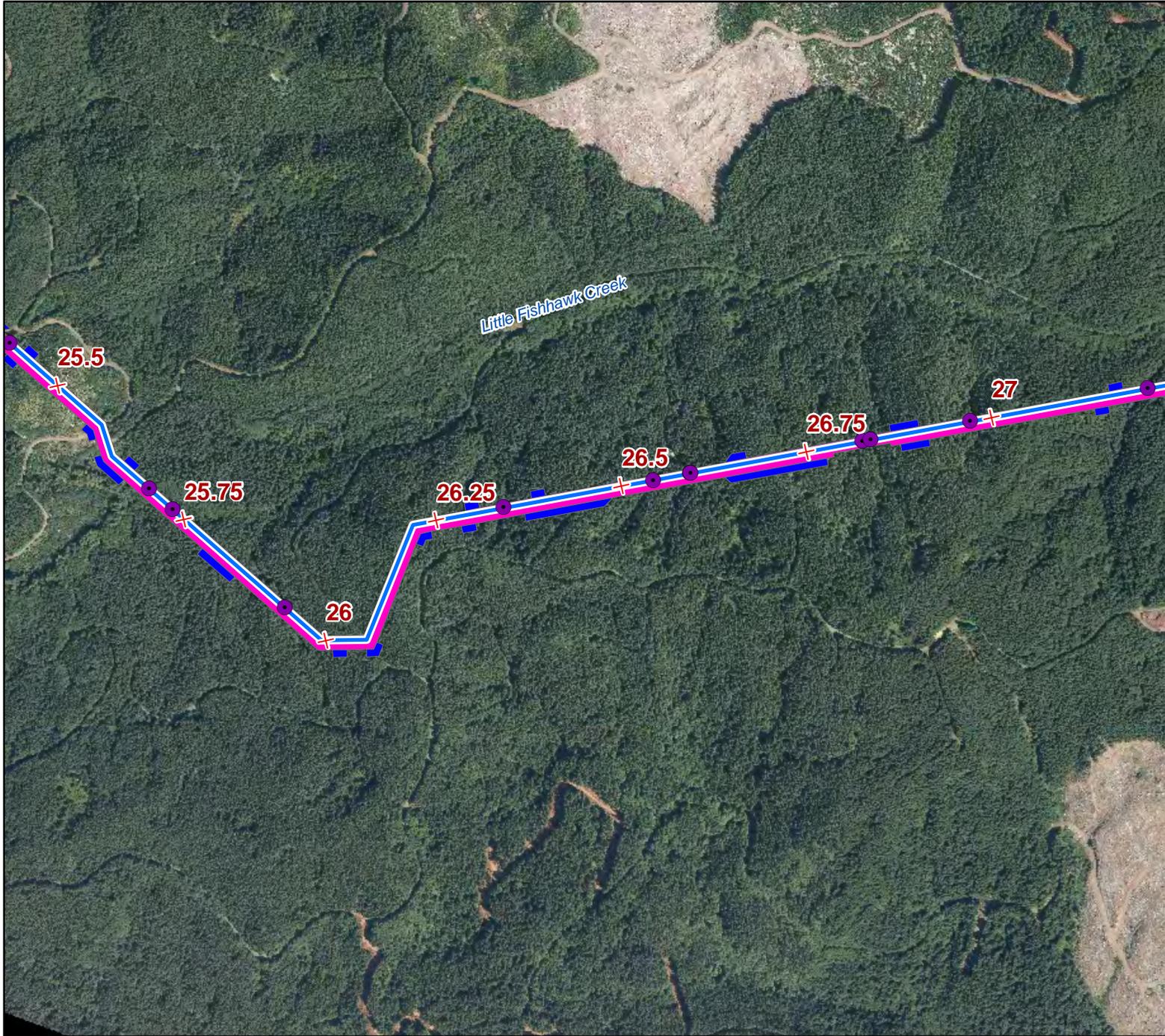


Figure 18
Aerial Maps of the Pipeline

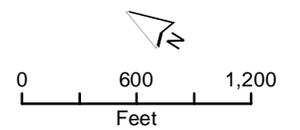
LEGEND

-  Stream Crossing - Listed Fish
-  Stream Crossing - No Listed Fish
-  HDD Entry/Exit Point
-  Pipeline Route Milepost (Qtr Mile)
-  Compressor Station
-  Pipeline Route
-  Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

-  Permanent
-  Temporary Workspace
-  Additional Temporary Workspace

Area of Interest



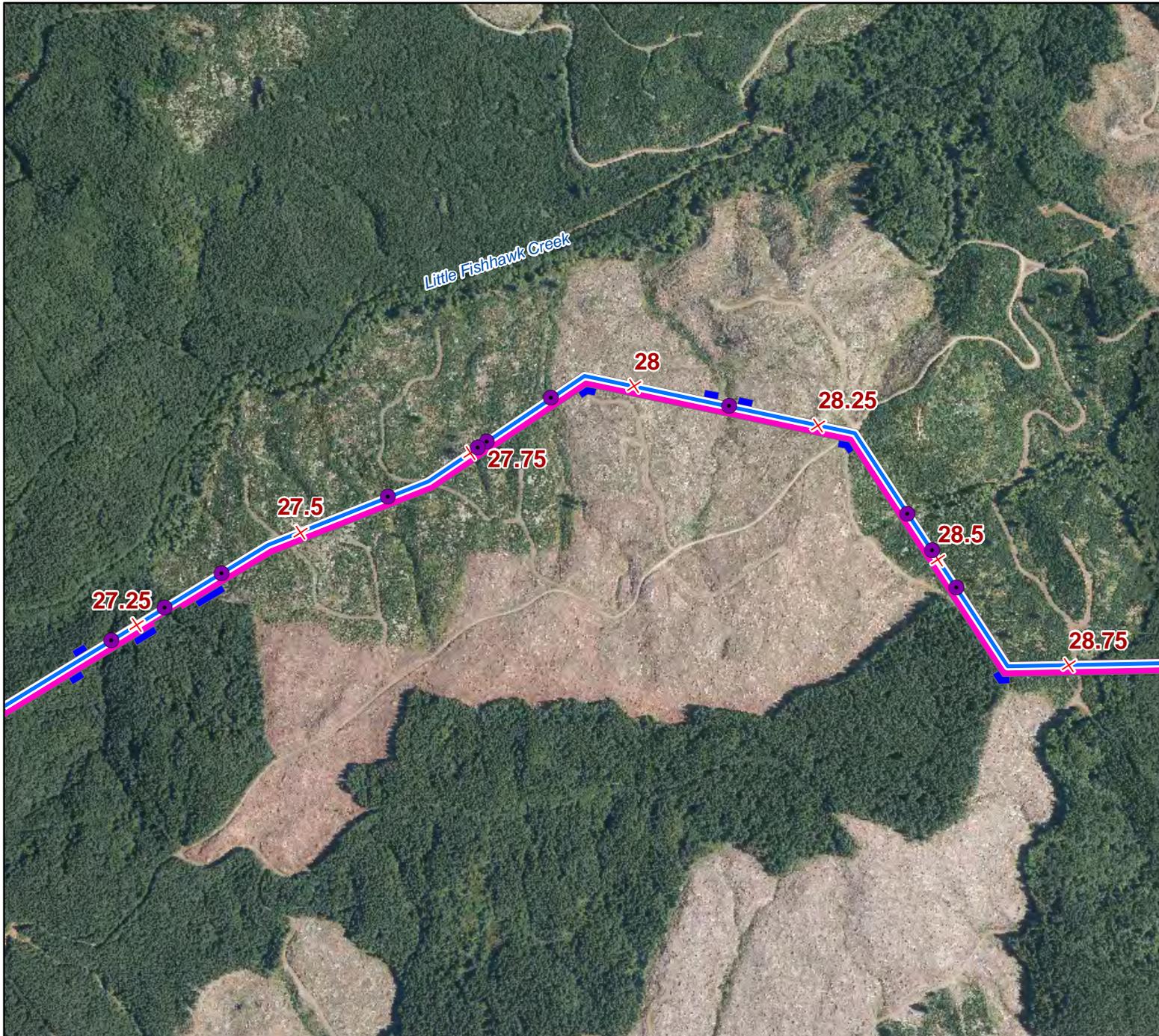


Figure 19
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

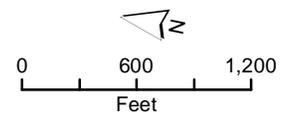


Figure 20
Aerial Maps of the Pipeline



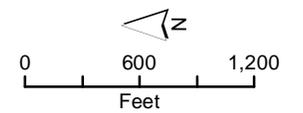
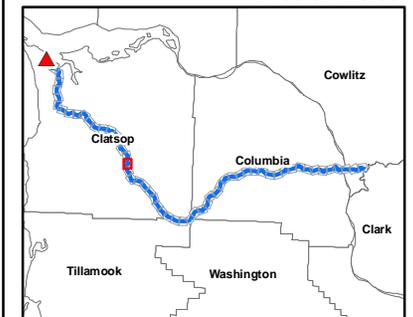
LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✕ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest



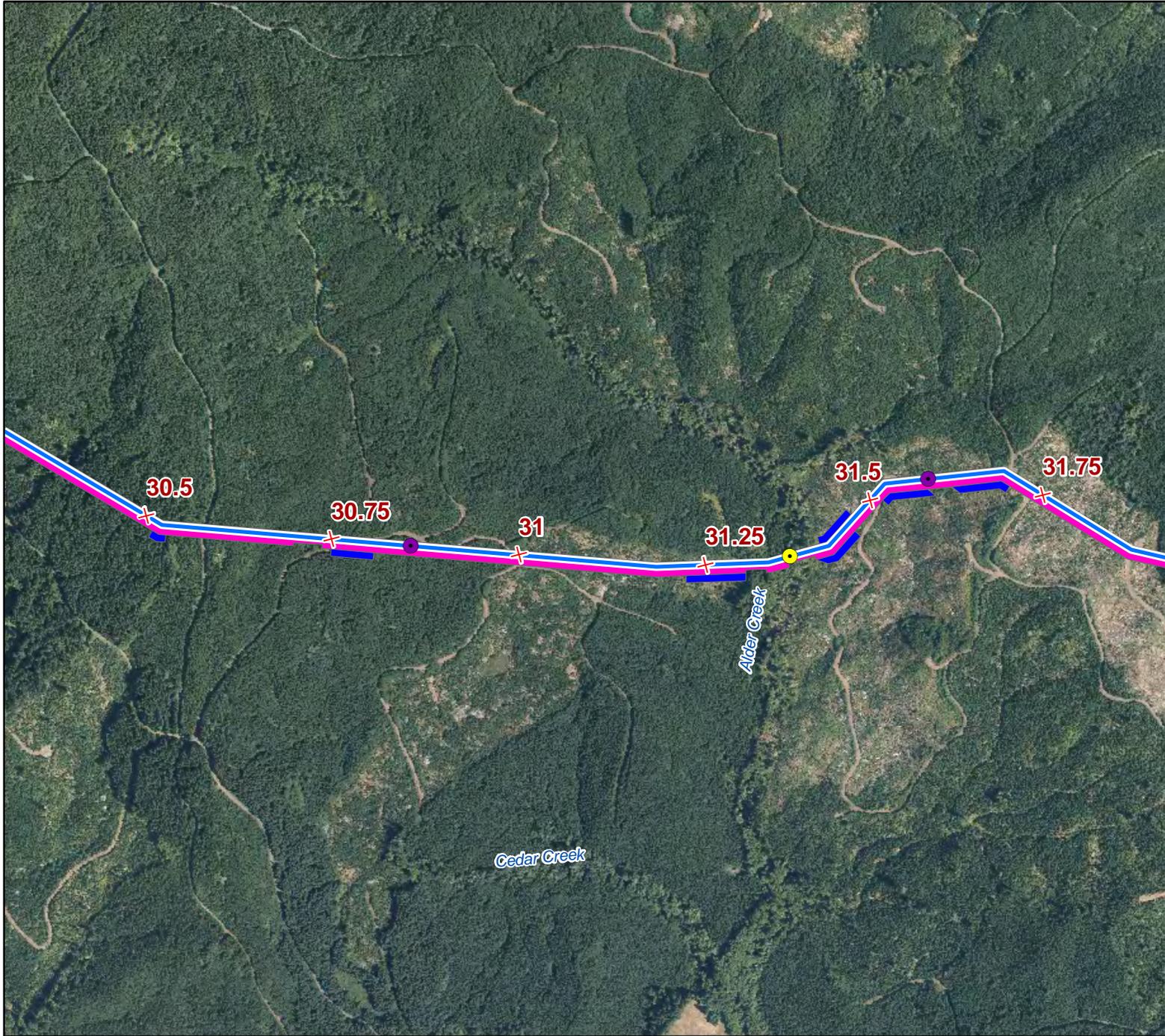
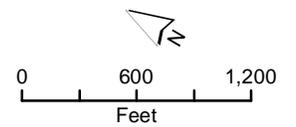
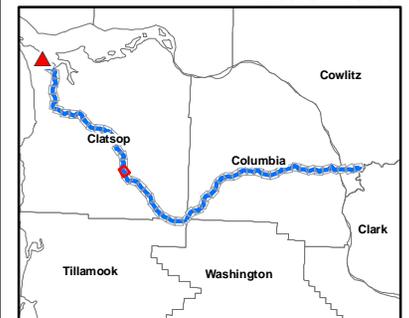


Figure 21
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



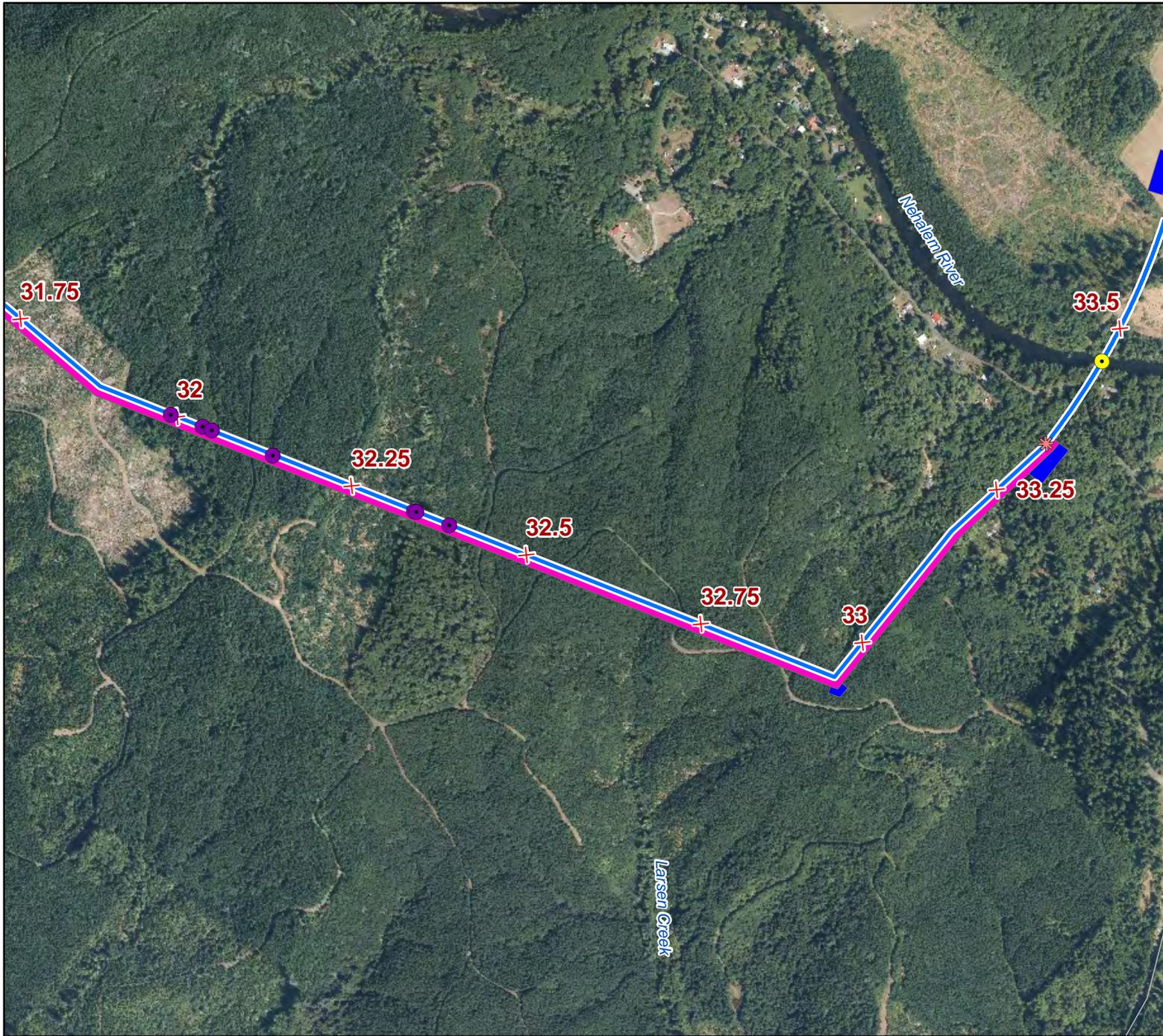
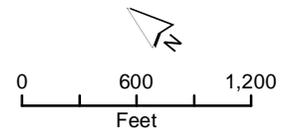
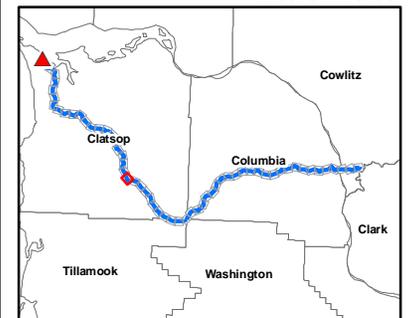


Figure 22
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



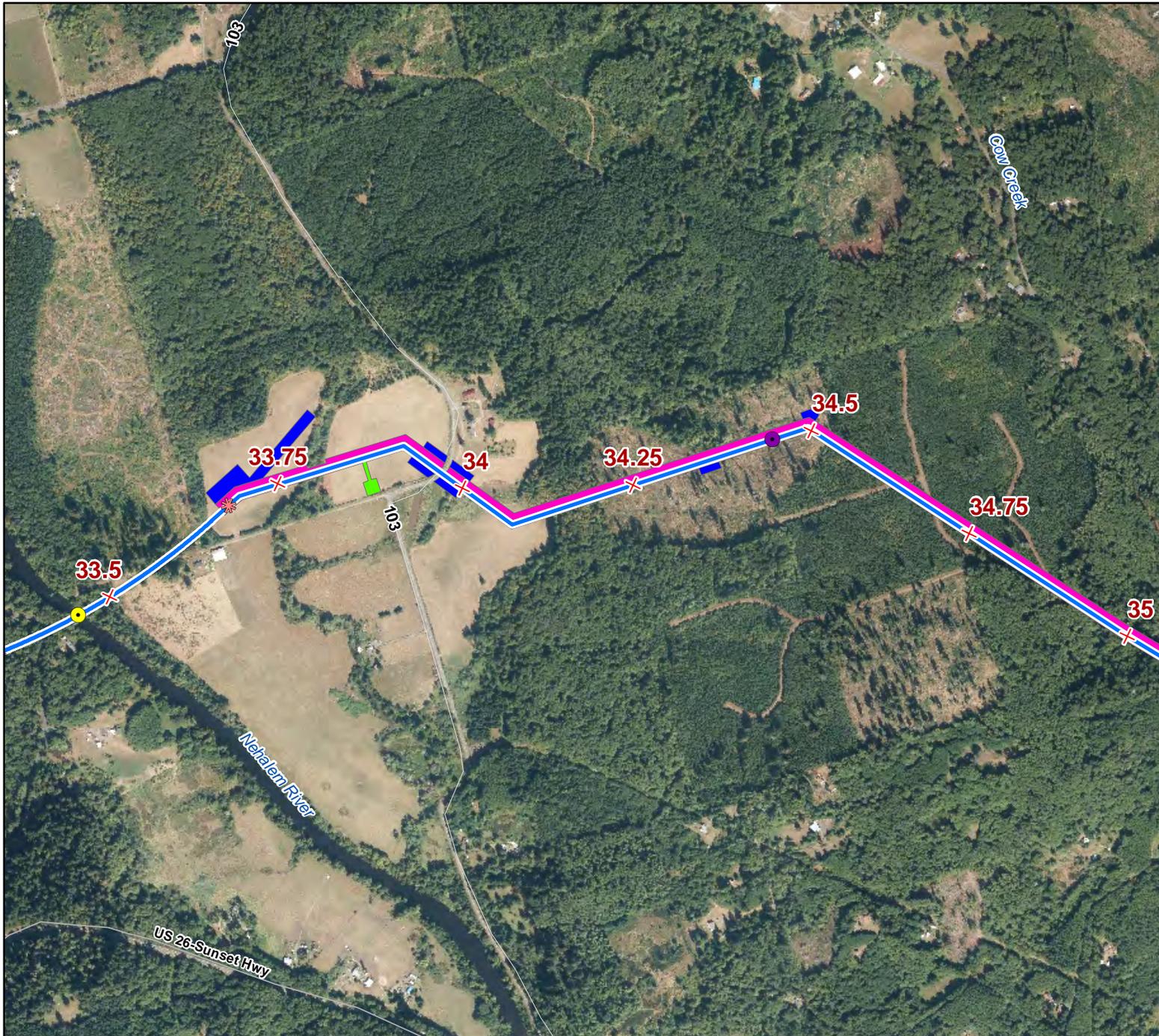


Figure 23
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

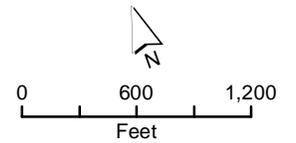




Figure 24
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

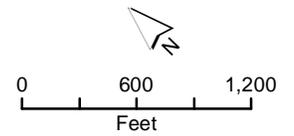
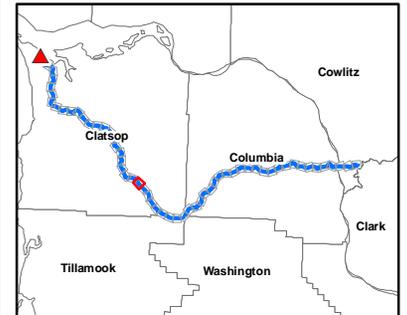




Figure 25
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

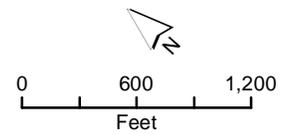


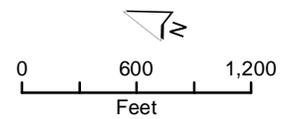


Figure 26
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✕ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



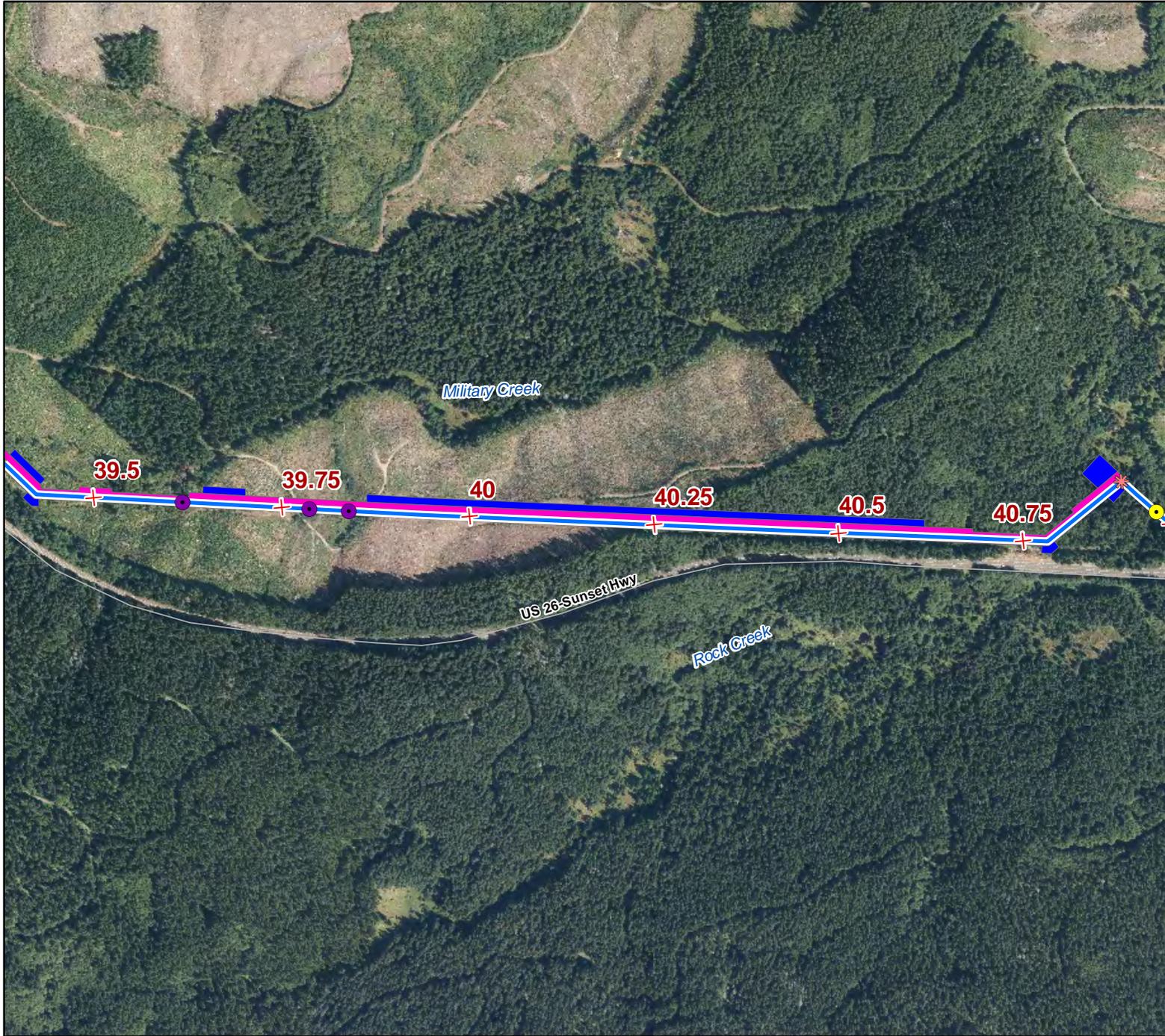
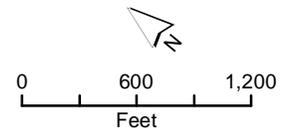
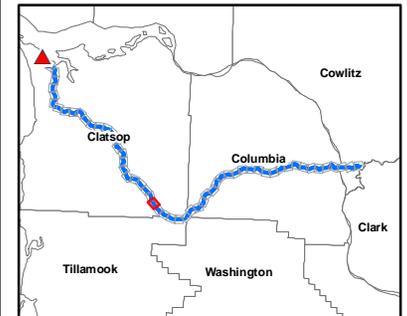


Figure 27
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



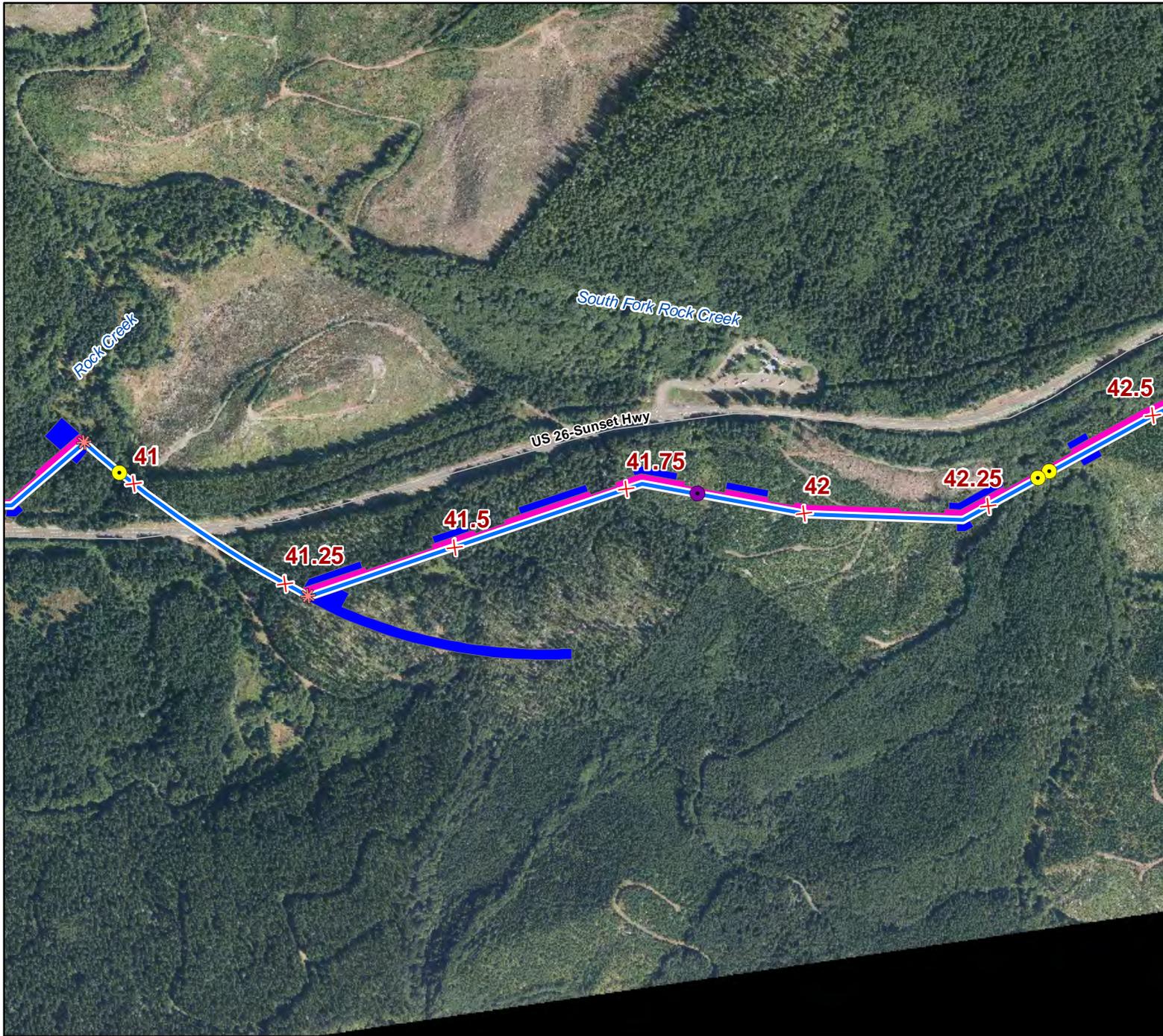


Figure 28
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest

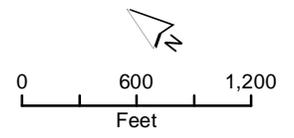


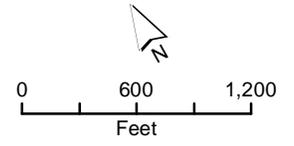


Figure 29
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



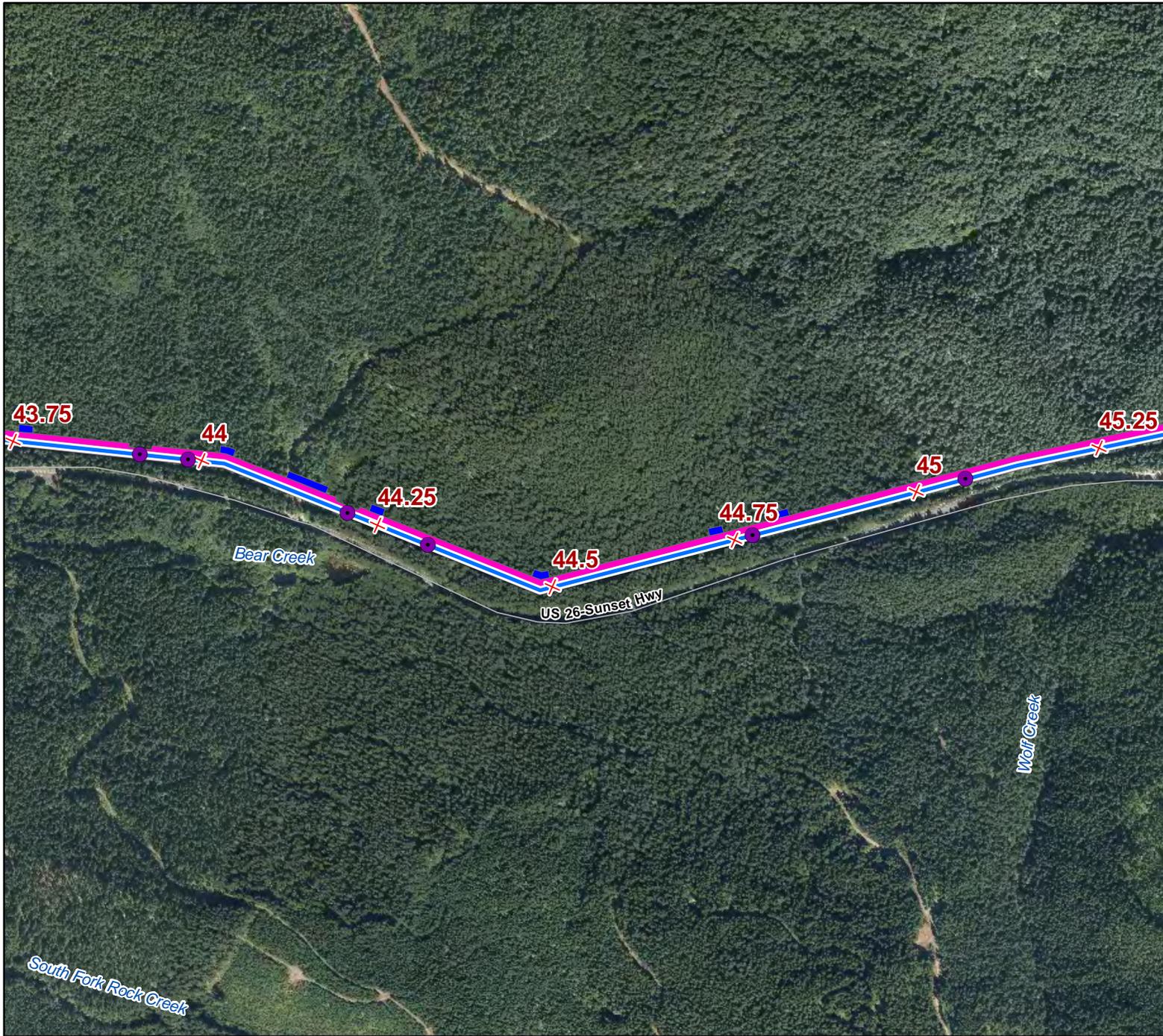


Figure 30
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest

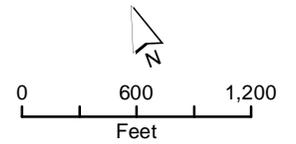
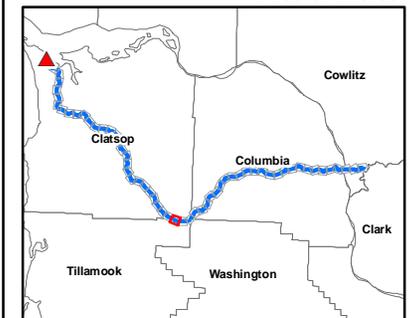


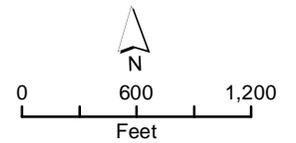
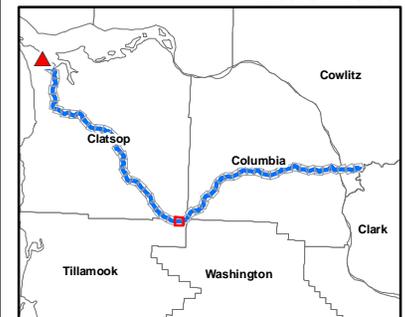


Figure 31
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



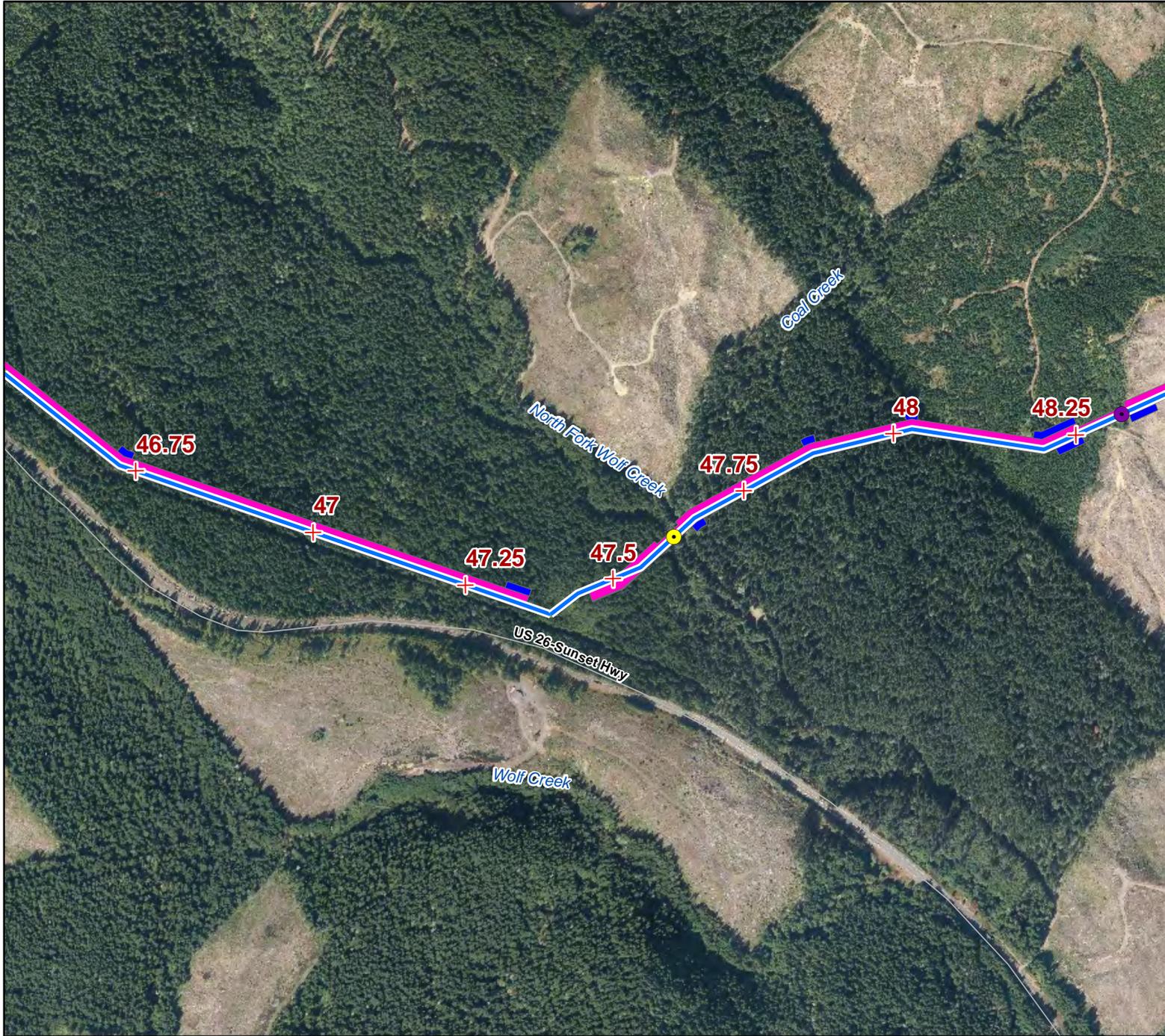
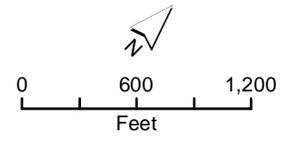
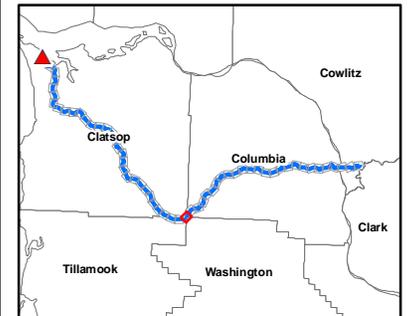


Figure 32
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



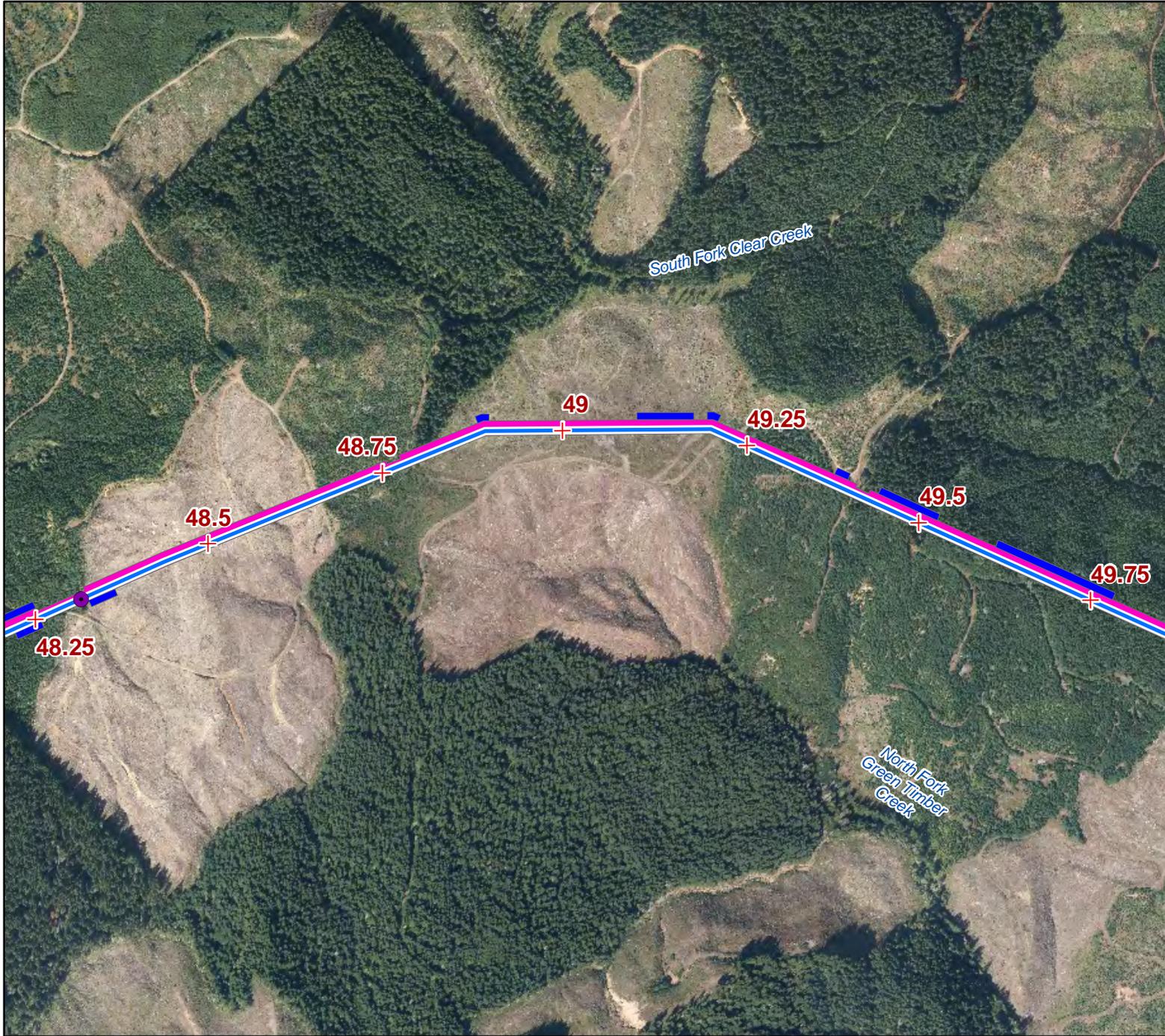
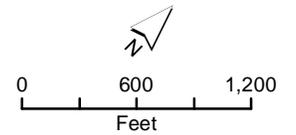


Figure 33
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



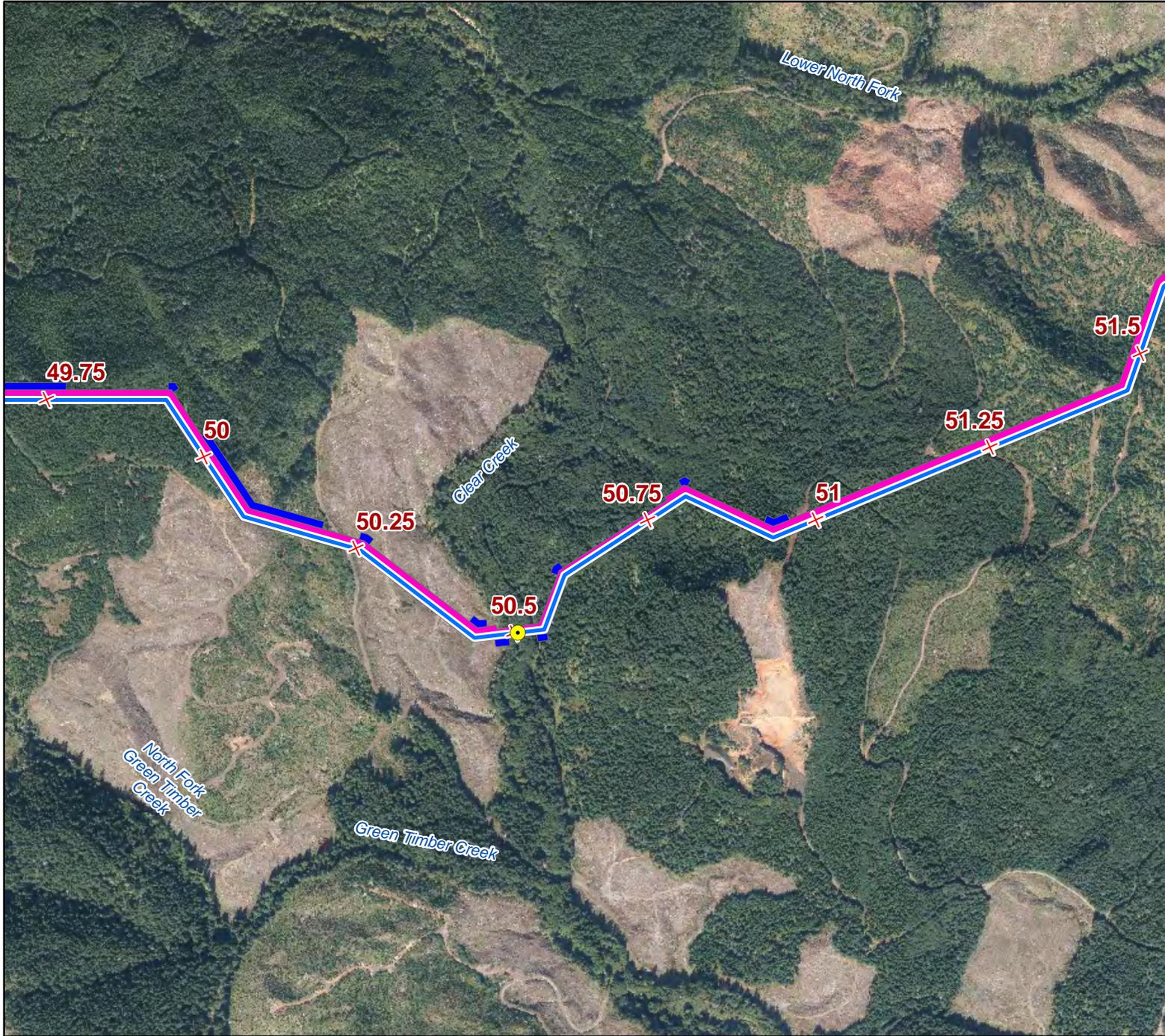
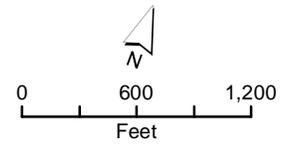
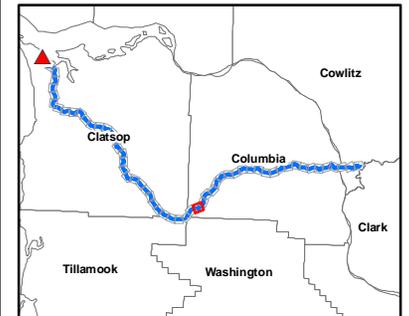


Figure 34
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



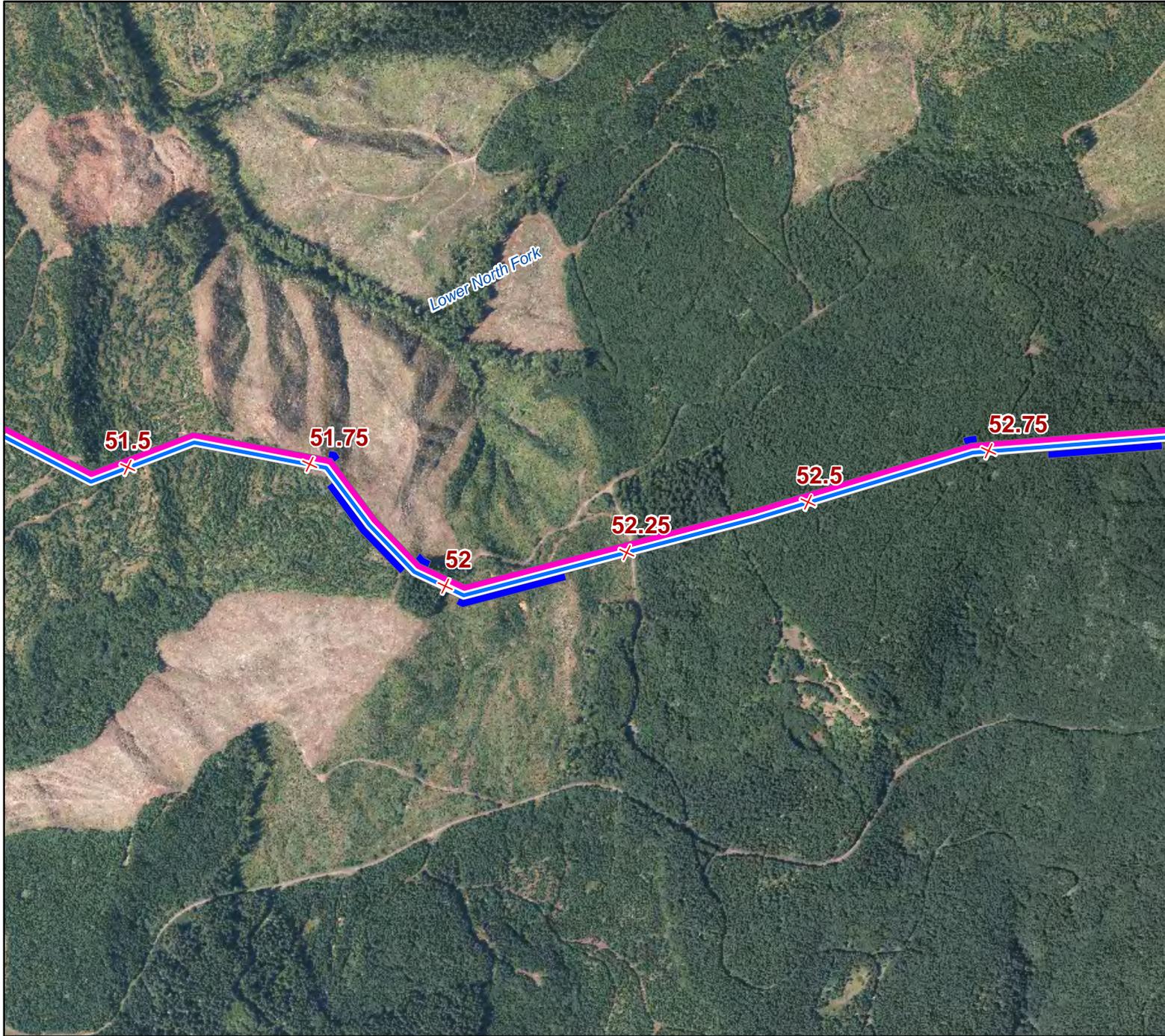


Figure 35
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest

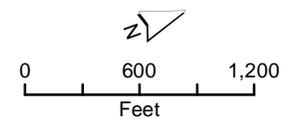




Figure 36
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

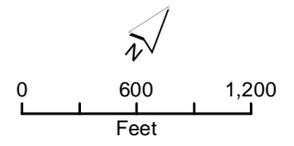
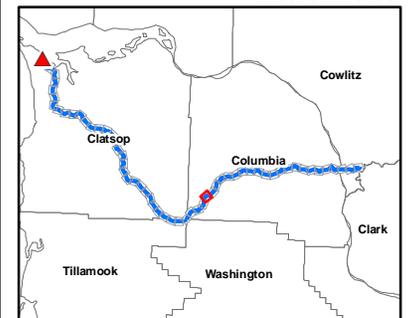




Figure 37
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

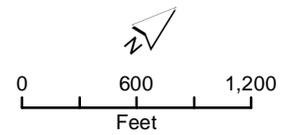
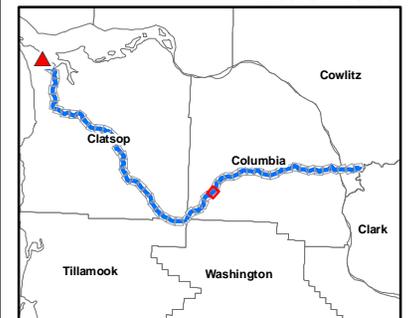




Figure 38
Aerial Maps of the Pipeline

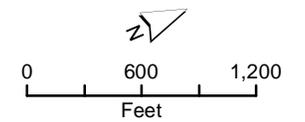
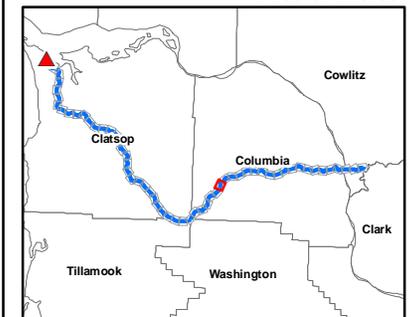
LEGEND

-  Stream Crossing - Listed Fish
-  Stream Crossing - No Listed Fish
-  HDD Entry/Exit Point
-  Pipeline Route Milepost (Qtr Mile)
-  Compressor Station
-  Pipeline Route
-  Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

-  Permanent
-  Temporary Workspace
-  Additional Temporary Workspace

Area of Interest



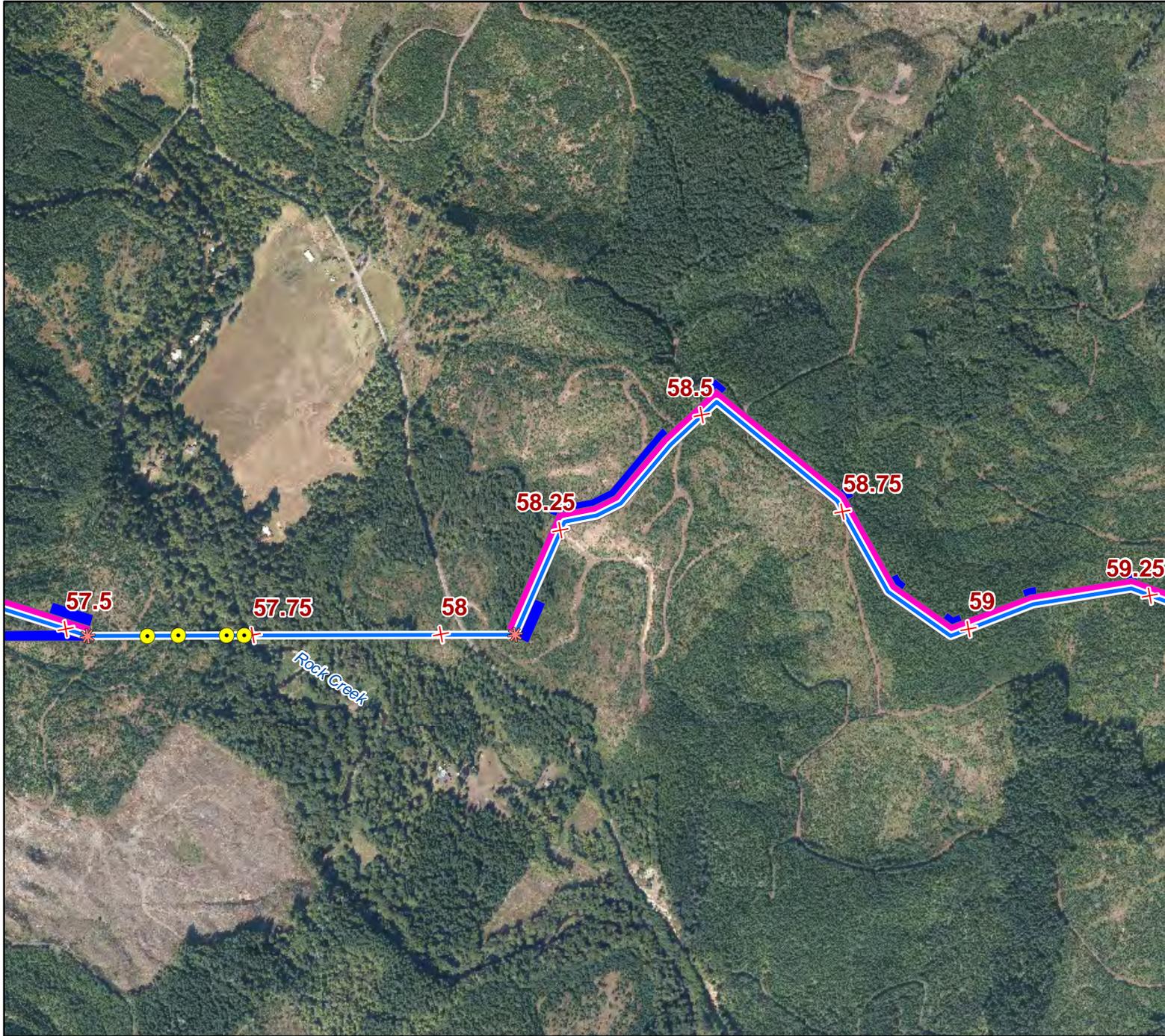


Figure 39
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✚ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest

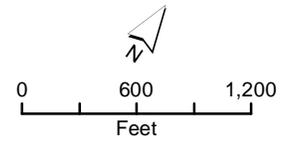
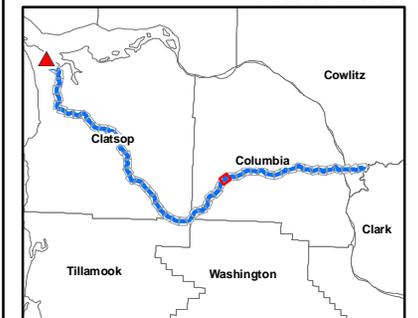




Figure 40
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✕ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

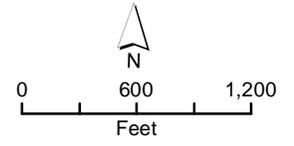
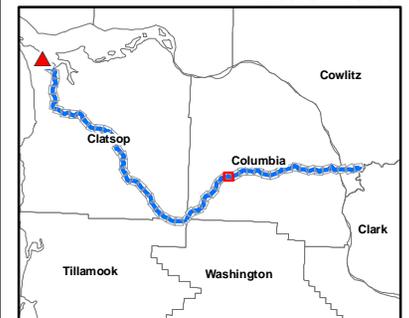




Figure 41
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

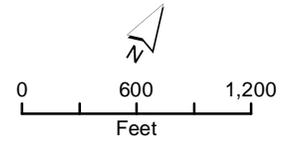
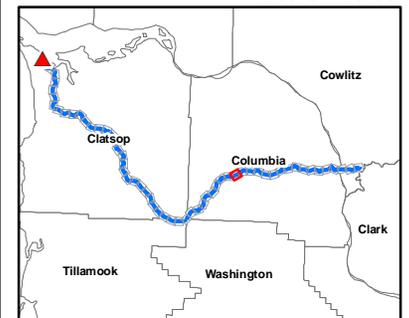




Figure 42
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

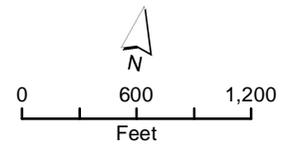


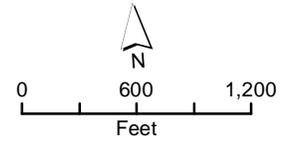


Figure 43
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest



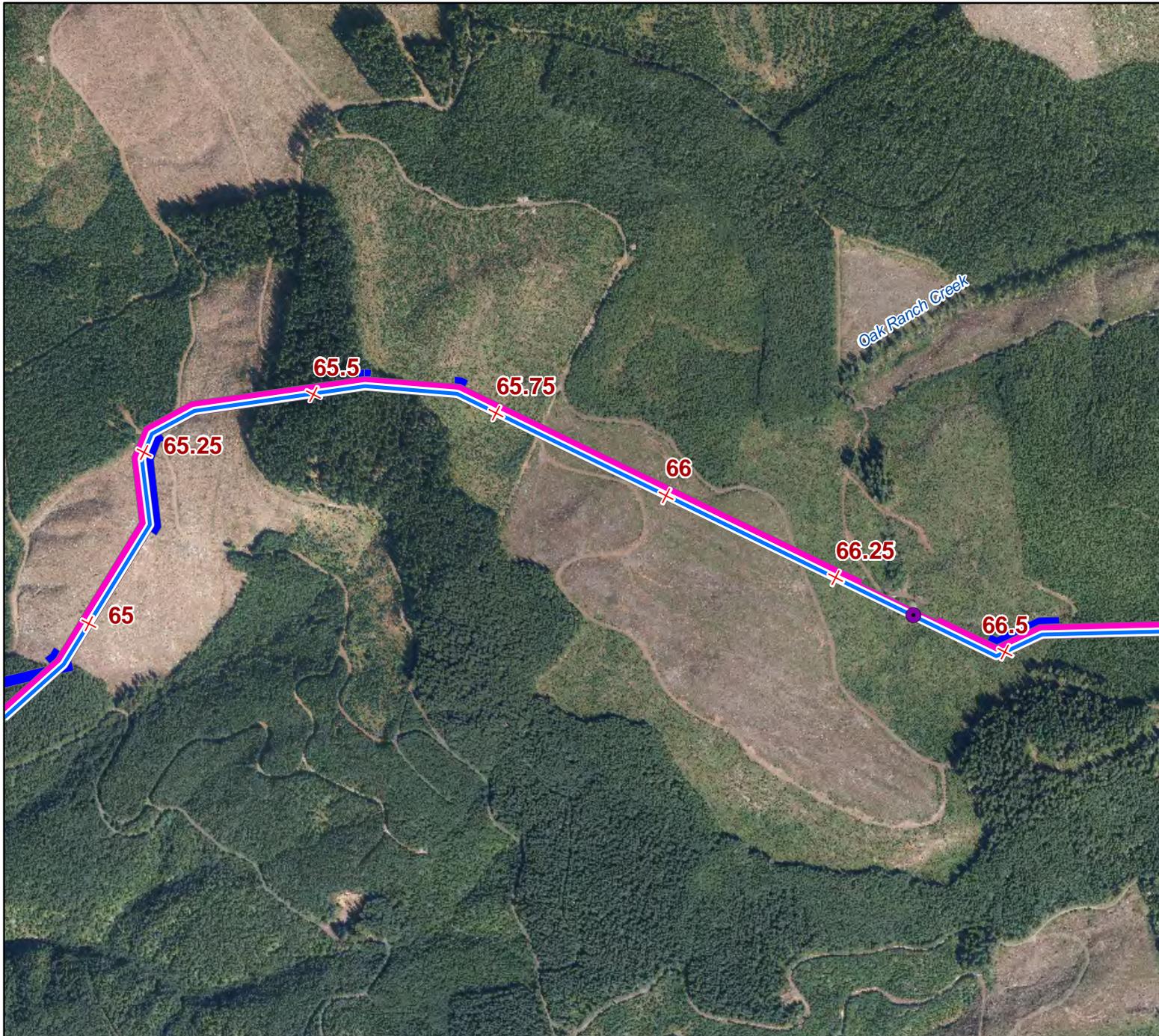


Figure 44
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

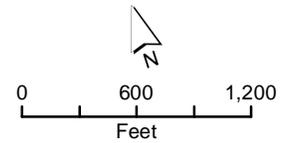
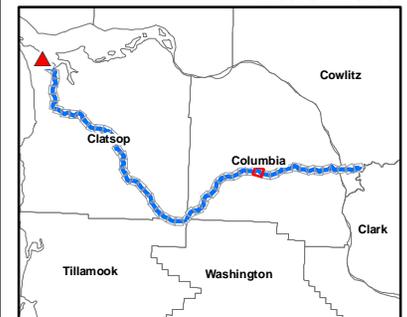




Figure 45
Aerial Maps of the Pipeline

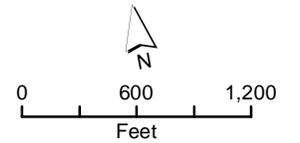
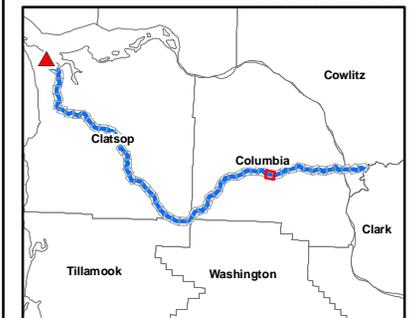
LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✕ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest



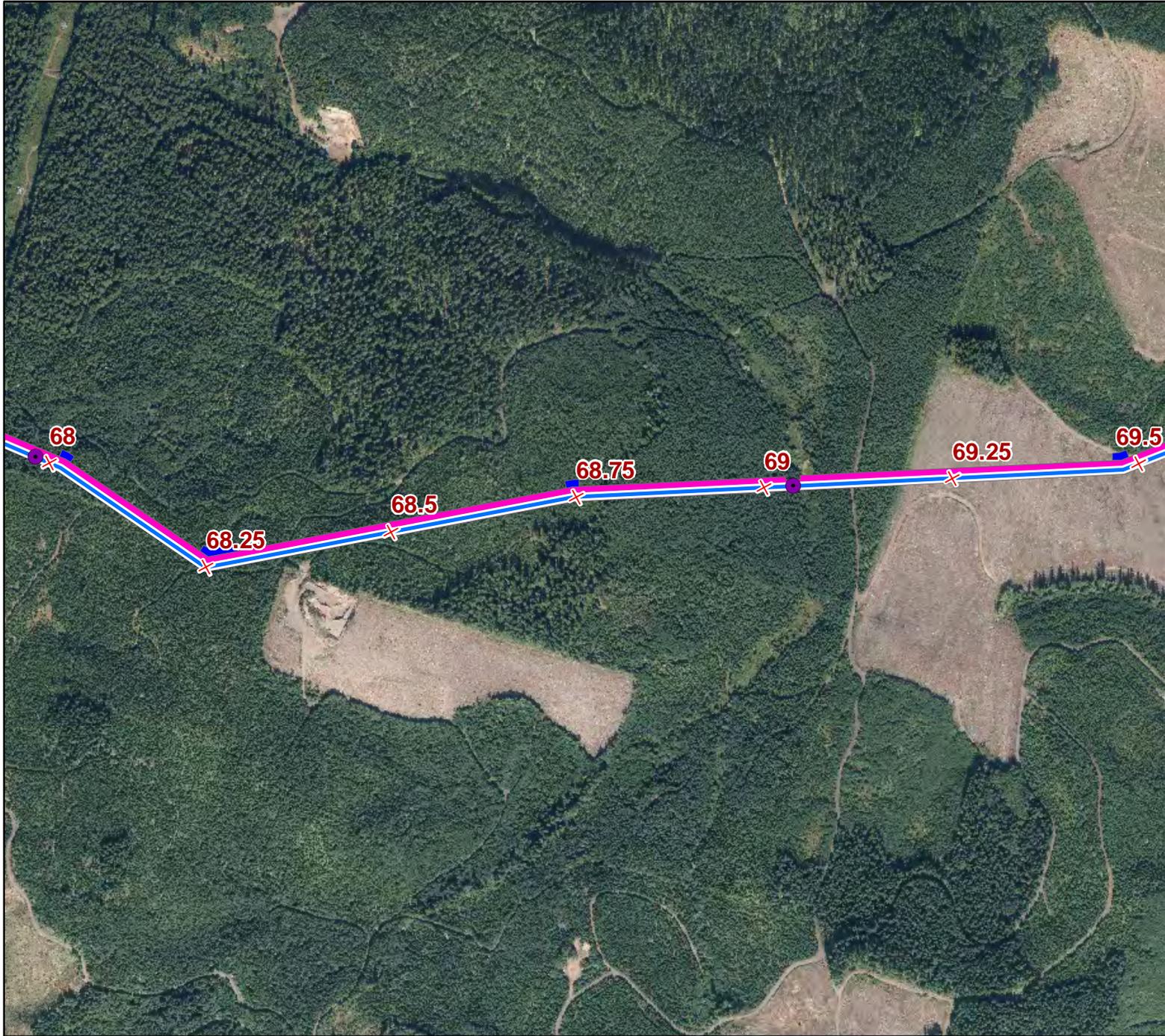


Figure 46
Aerial Maps of the Pipeline

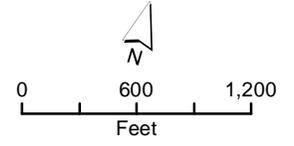
LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest



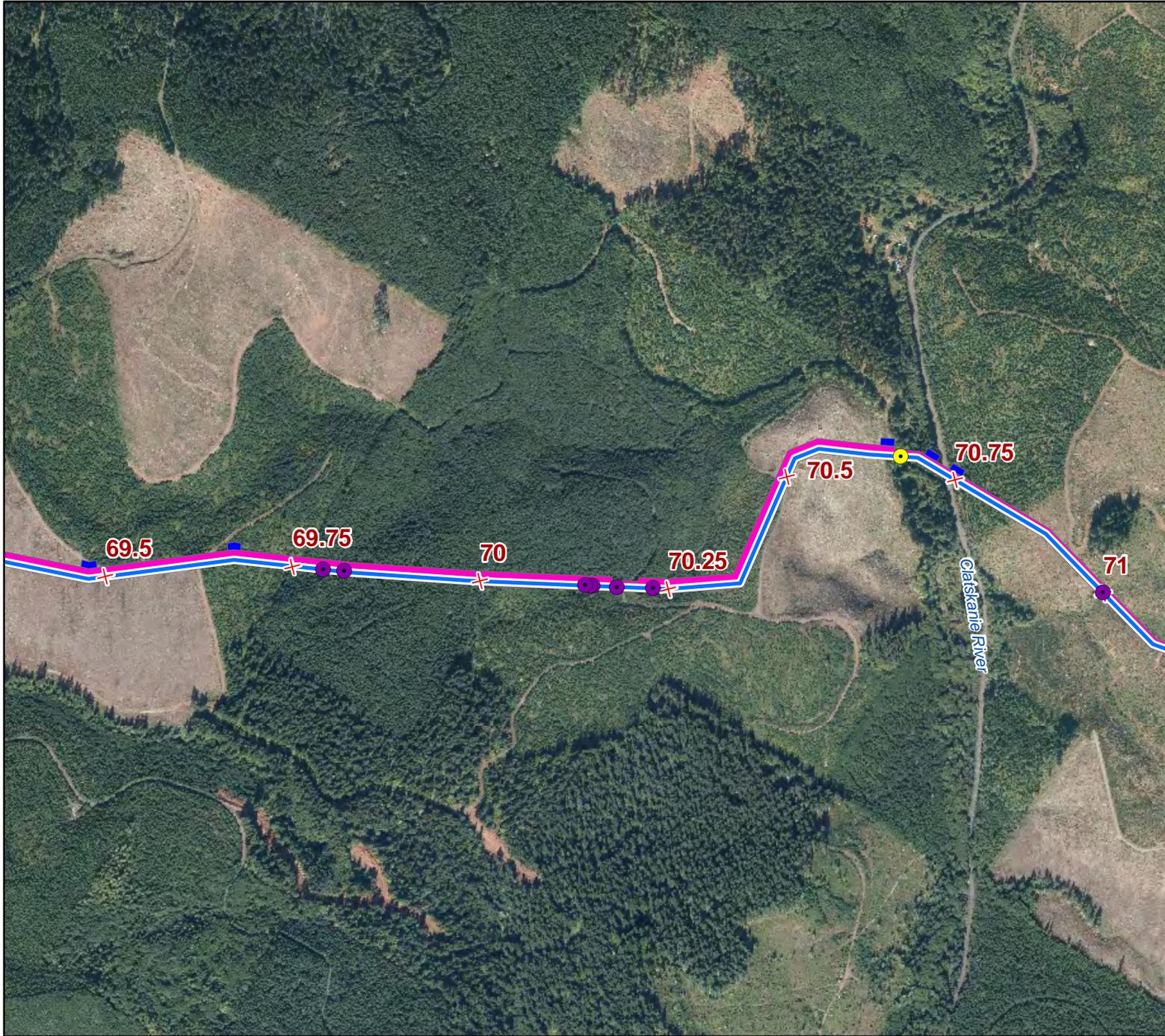
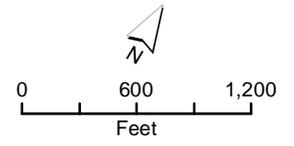
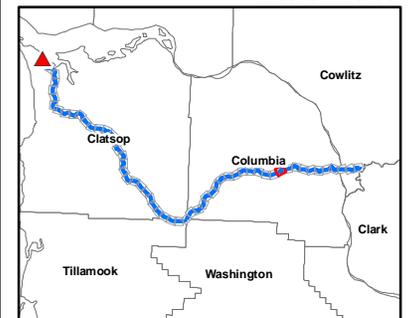


Figure 47
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



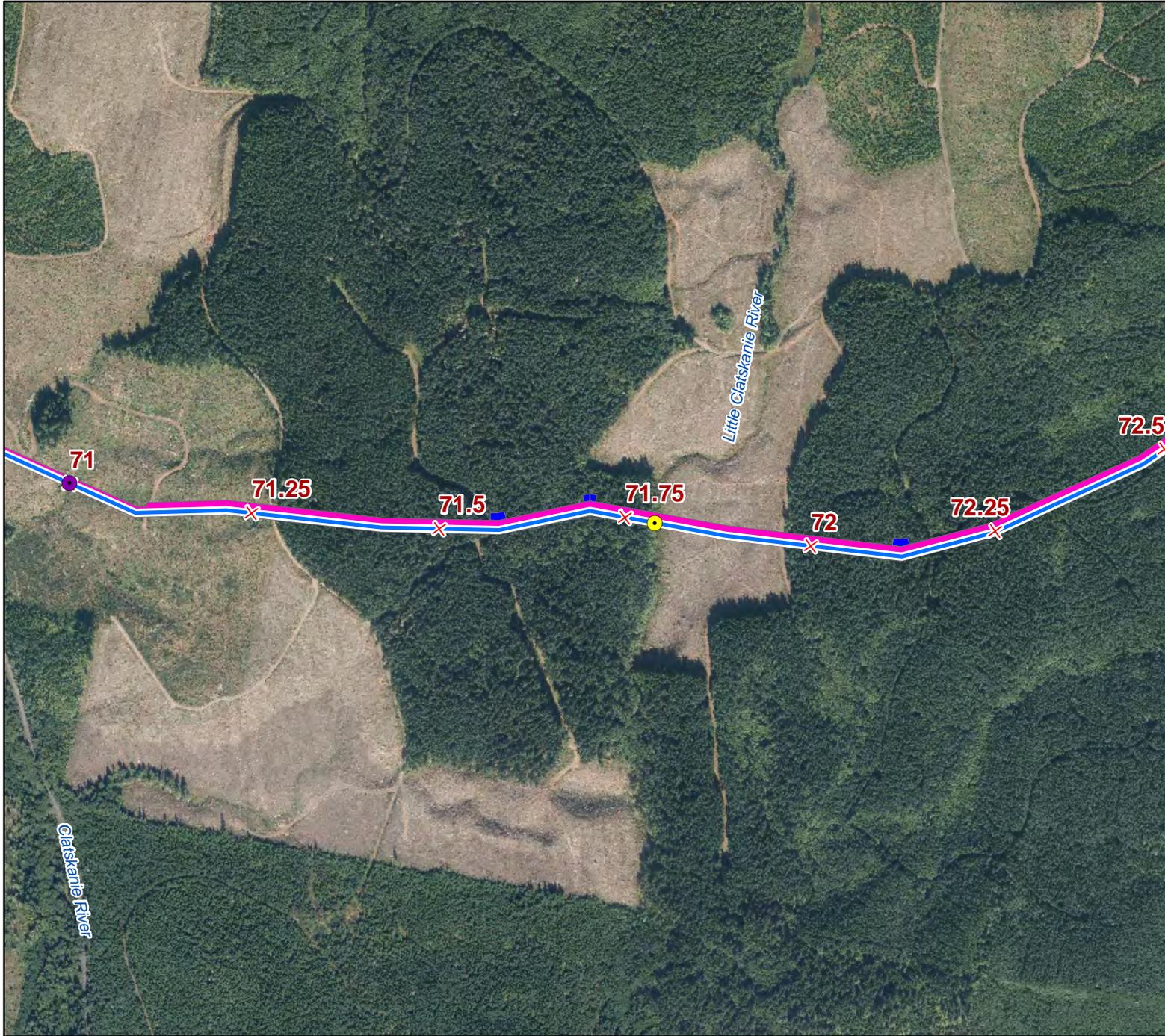
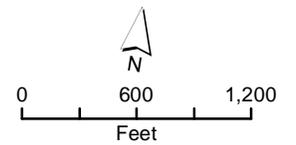
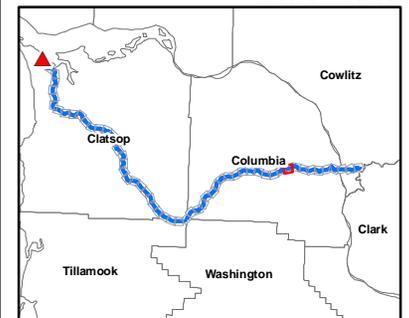


Figure 48
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



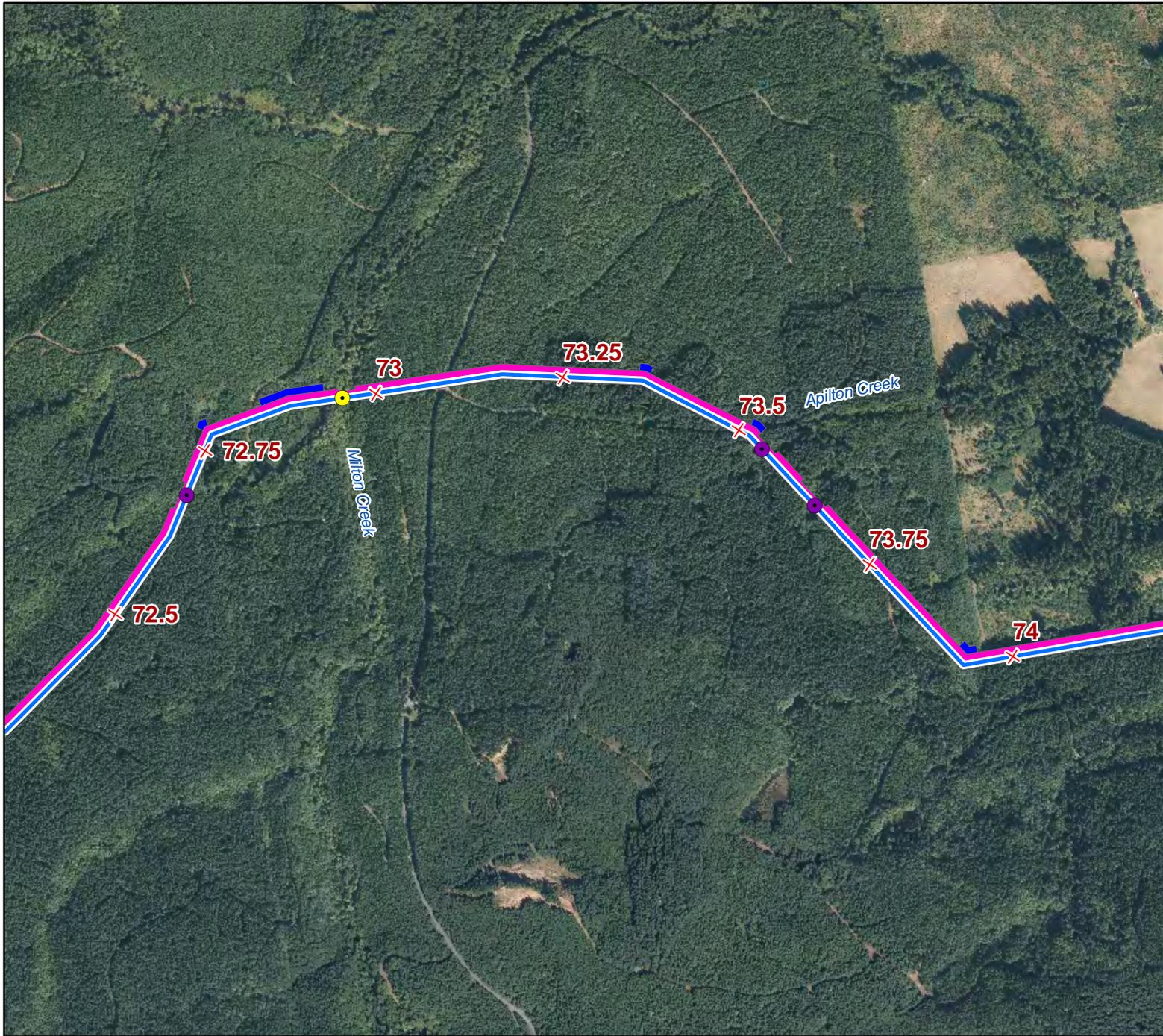


Figure 49
Aerial Maps of the Pipeline

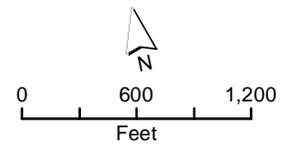
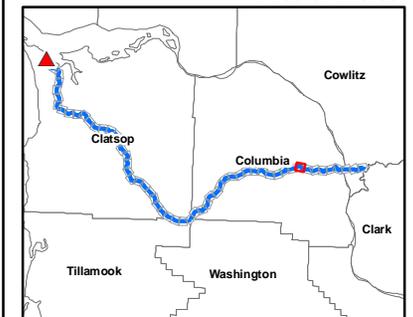
LEGEND

-  Stream Crossing - Listed Fish
-  Stream Crossing - No Listed Fish
-  HDD Entry/Exit Point
-  Pipeline Route Milepost (Qtr Mile)
-  Compressor Station
-  Pipeline Route
-  Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

-  Permanent
-  Temporary Workspace
-  Additional Temporary Workspace

Area of Interest



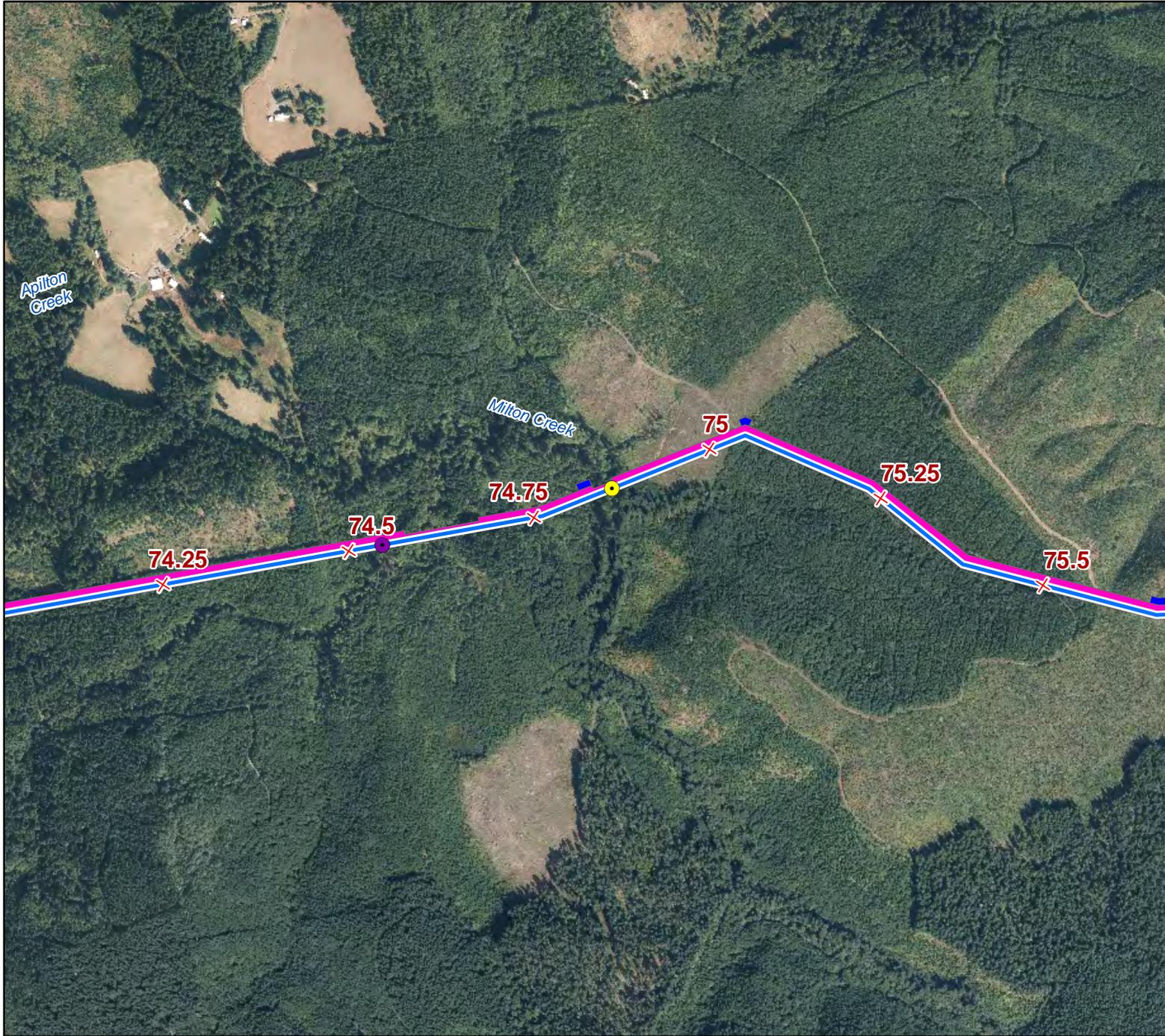


Figure 50
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest

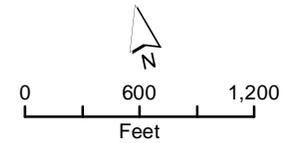
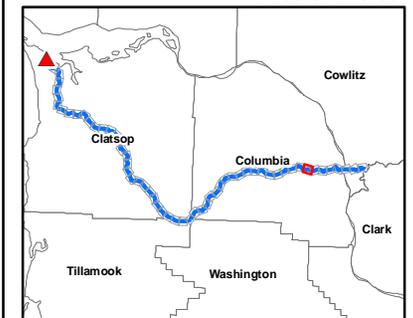


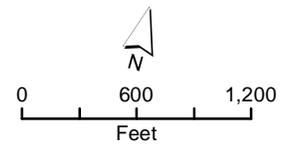
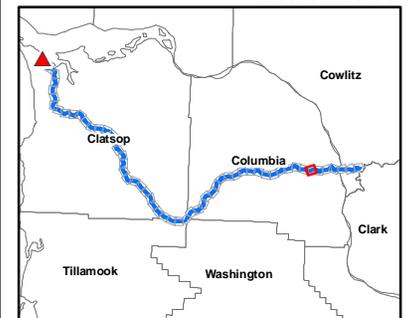


Figure 51
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest



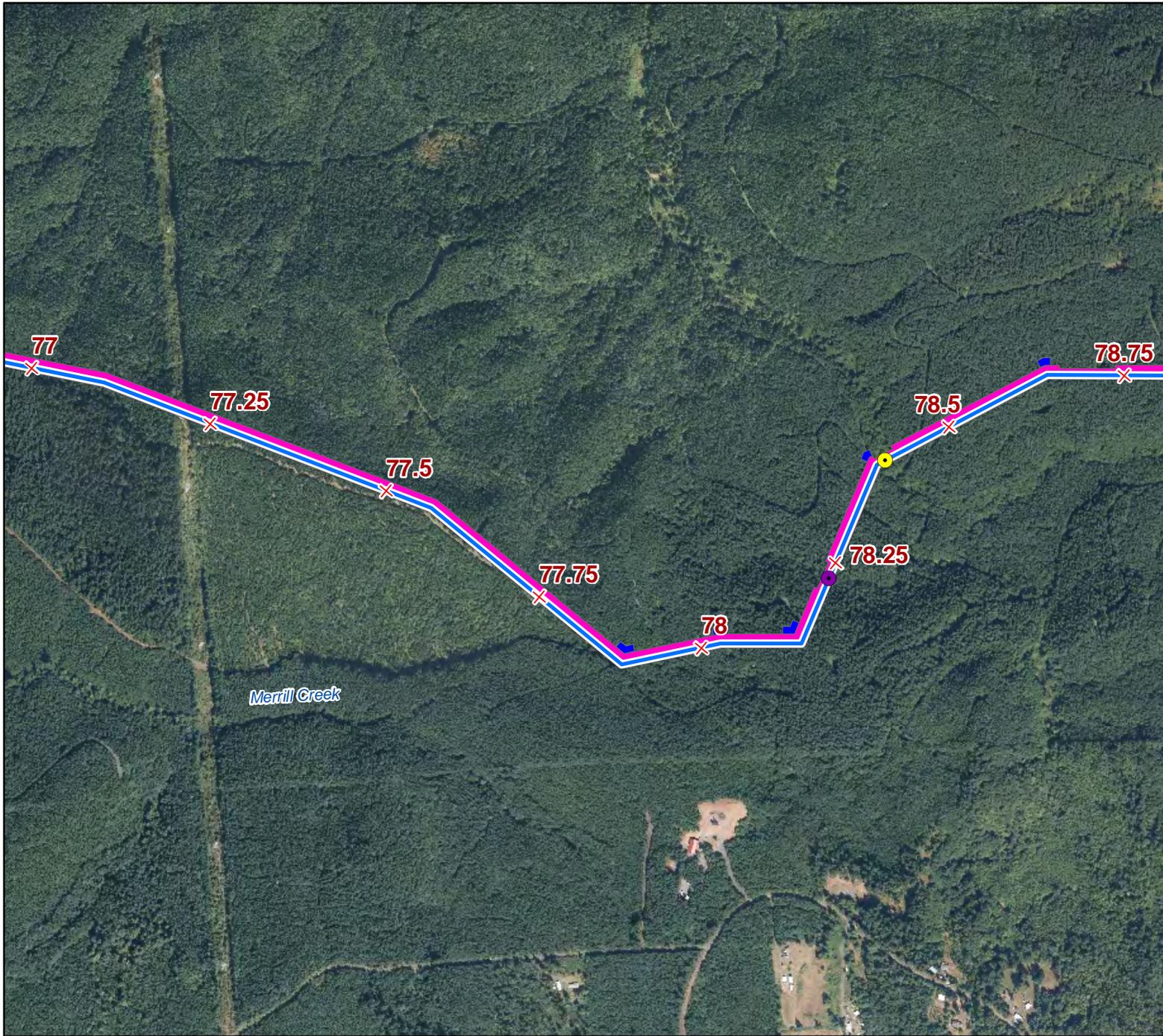


Figure 52
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

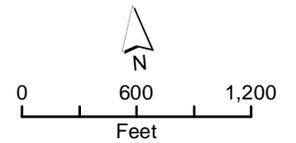
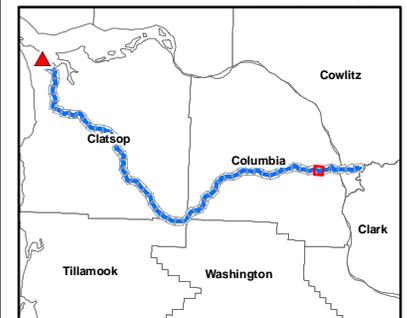




Figure 53
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✕ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

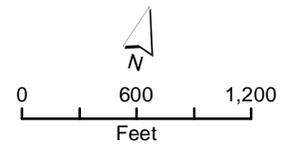
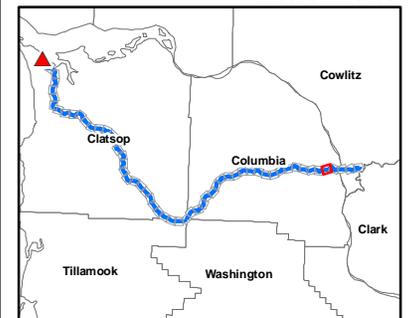




Figure 54
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

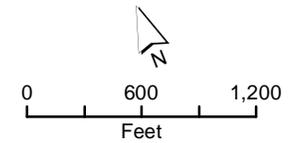
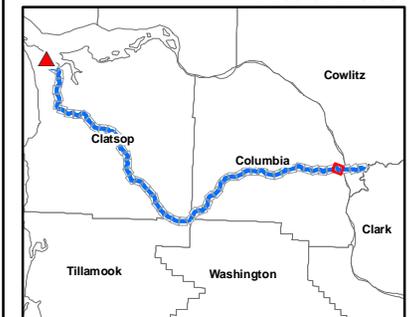




Figure 55
Aerial Maps of the Pipeline

LEGEND

- Stream Crossing - Listed Fish
 - Stream Crossing - No Listed Fish
 - ✱ HDD Entry/Exit Point
 - ✕ Pipeline Route Milepost (Qtr Mile)
 - Compressor Station
 - Pipeline Route
 - Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
- Permanent
 - Temporary Workspace
 - Additional Temporary Workspace

Area of Interest

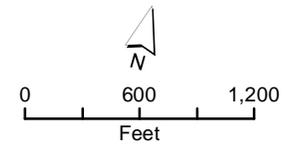




Figure 56
Aerial Maps of the Pipeline

LEGEND

-  Stream Crossing - Listed Fish
 -  Stream Crossing - No Listed Fish
 -  HDD Entry/Exit Point
 -  Pipeline Route Milepost (Qtr Mile)
 -  Compressor Station
 -  Pipeline Route
 -  Terminal Layout
- Pipeline Permanent, Temporary, and Additional Temporary Workspace
-  Permanent
 -  Temporary Workspace
 -  Additional Temporary Workspace

Area of Interest

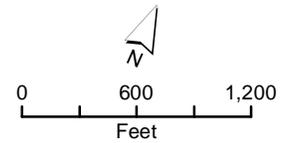
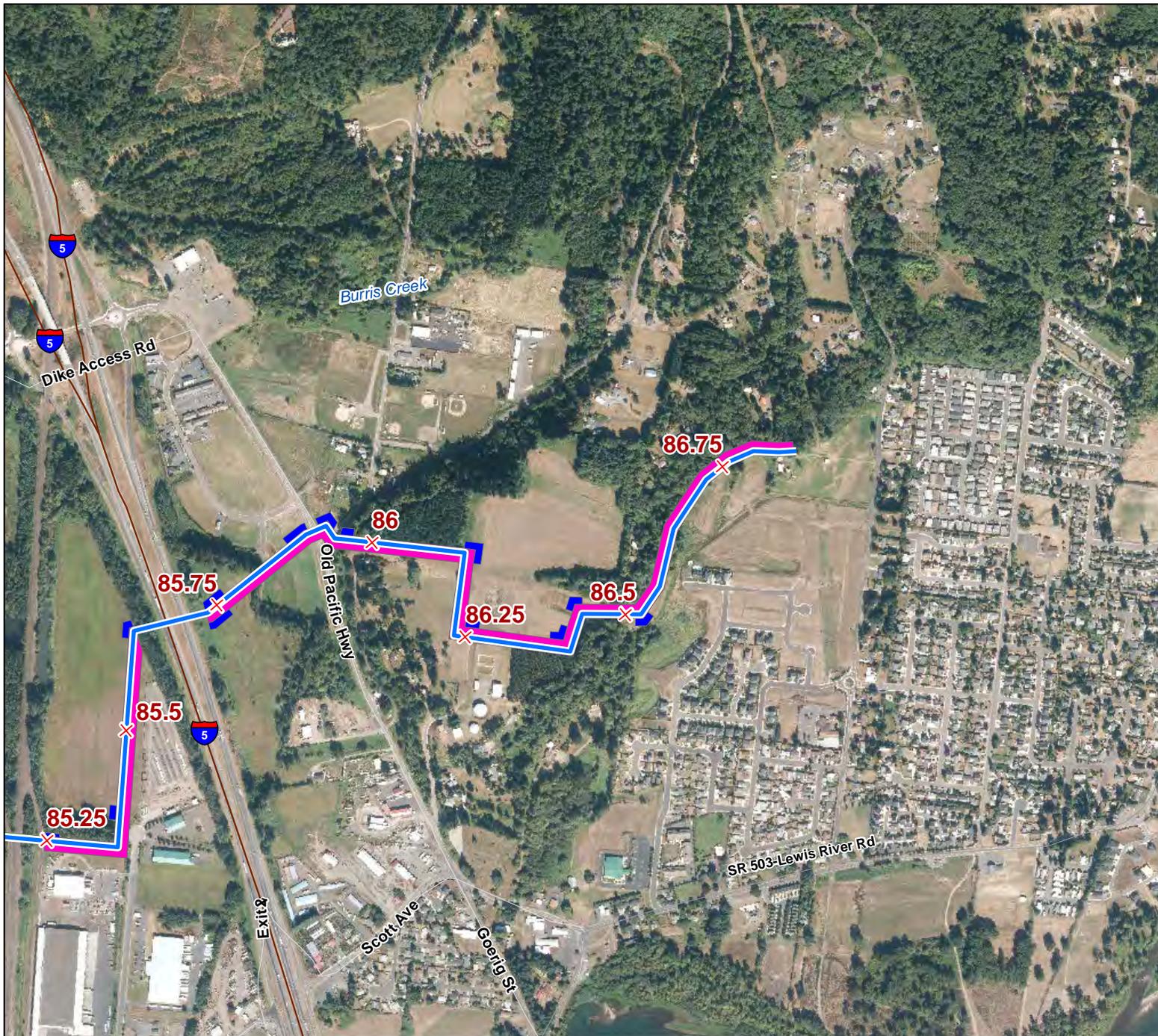


Figure 57
Aerial Maps of the Pipeline



LEGEND

- Stream Crossing - Listed Fish
- Stream Crossing - No Listed Fish
- ✱ HDD Entry/Exit Point
- ✕ Pipeline Route Milepost (Qtr Mile)
- Compressor Station
- Pipeline Route
- Terminal Layout

Pipeline Permanent, Temporary, and Additional Temporary Workspace

- Permanent
- Temporary Workspace
- Additional Temporary Workspace

Area of Interest

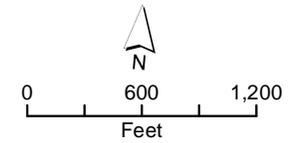
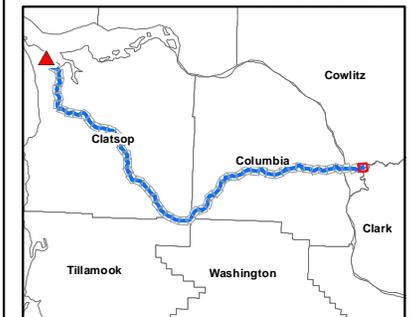
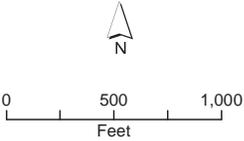




Figure 1
Construction
Staging/Storage
Areas

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- Staging Area
- Parcels



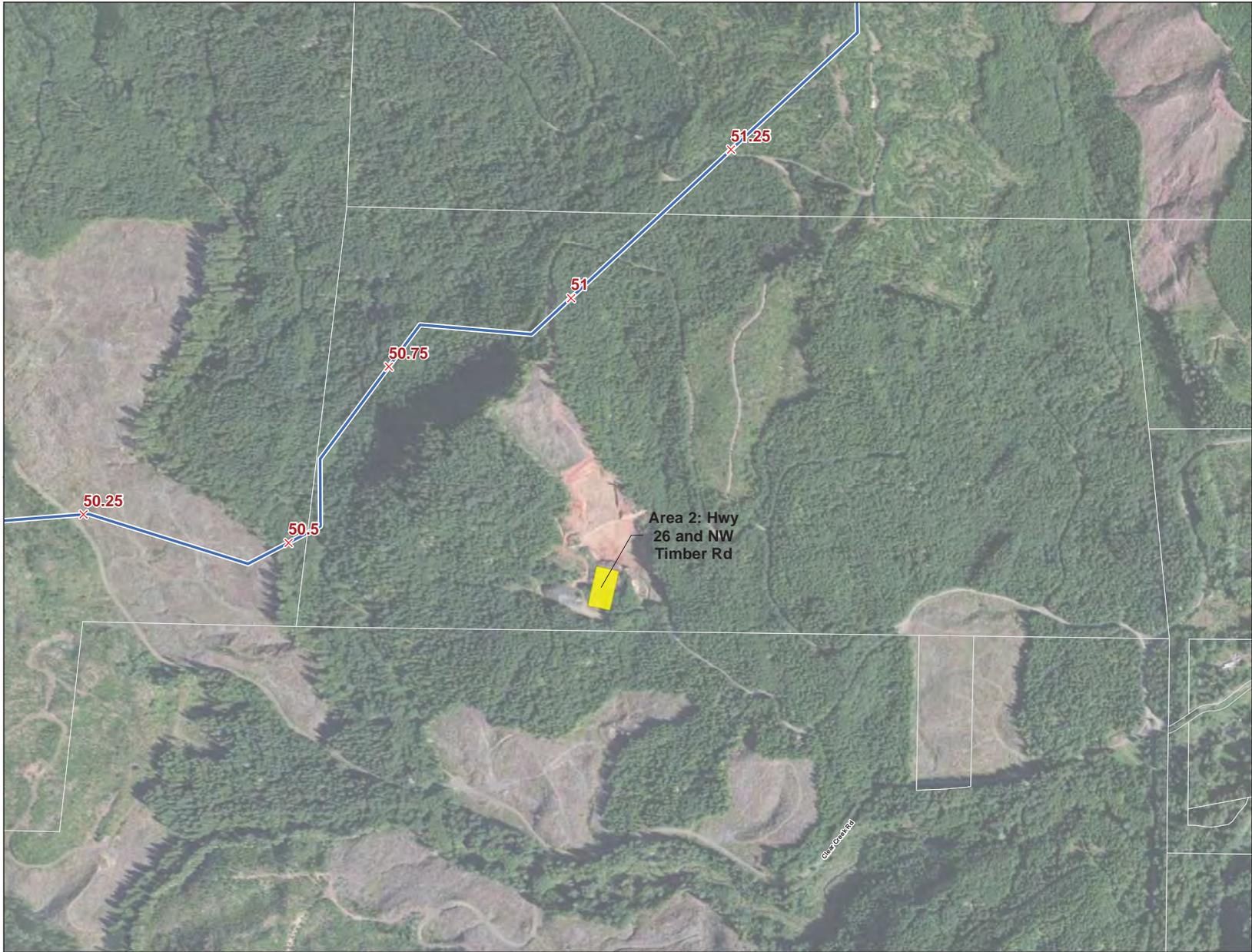
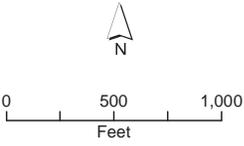


Figure 2
Construction
Staging/Storage
Areas

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- Staging Area
- Parcels



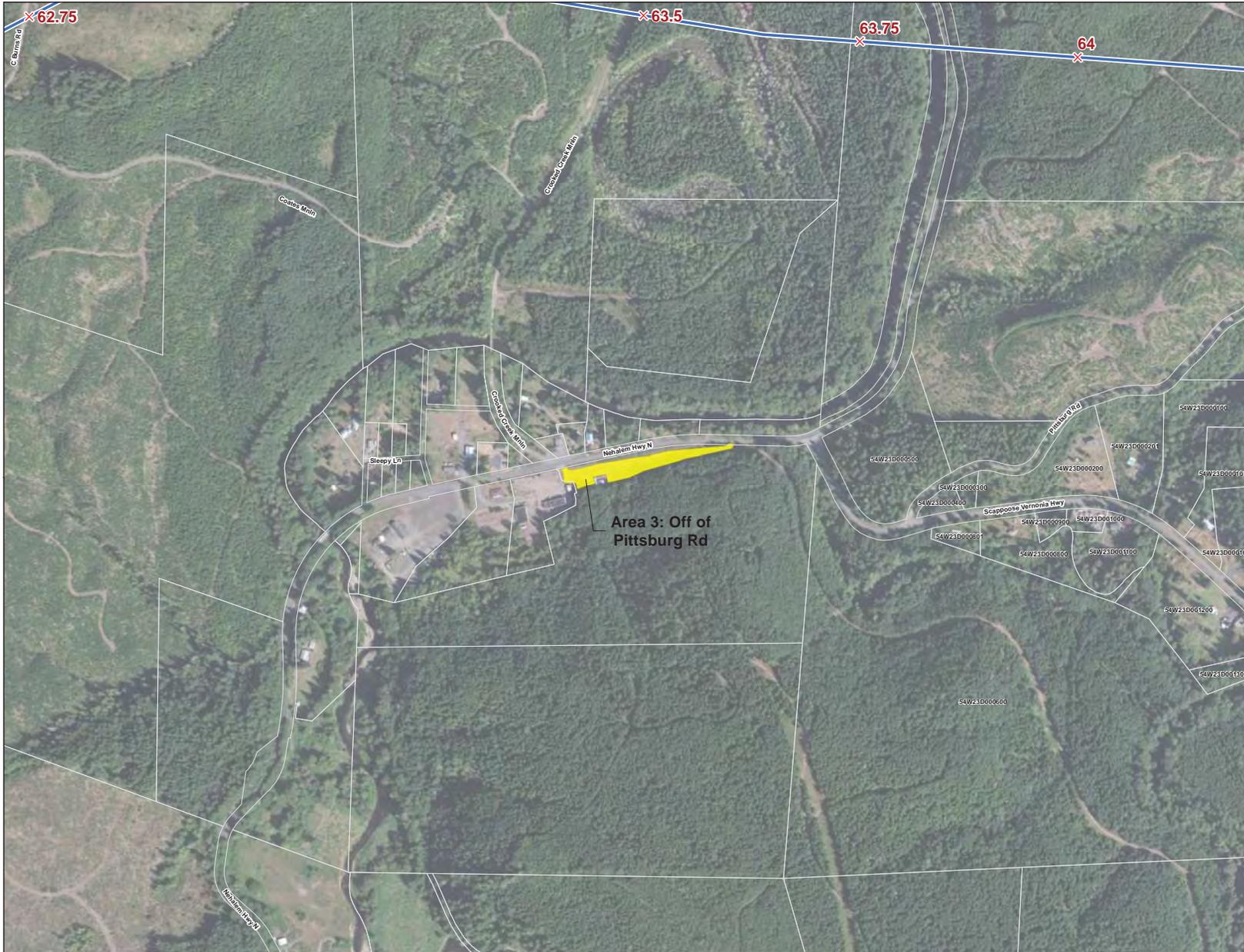


Figure 3
Construction
Staging/Storage
Areas

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- Staging Area
- Parcels

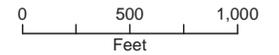




Figure 4
Construction
Staging/Storage
Areas

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- Staging Area
- Parcels

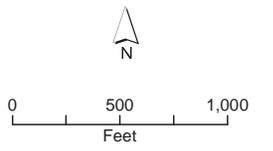




Figure 5
Construction
Staging/Storage
Areas

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- Staging Area
- Parcels

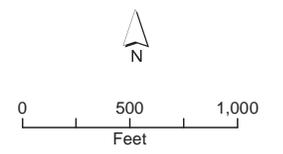




Figure 6
Construction
Staging/Storage
Areas

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - Staging Area
 - Parcels

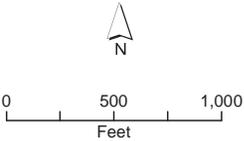
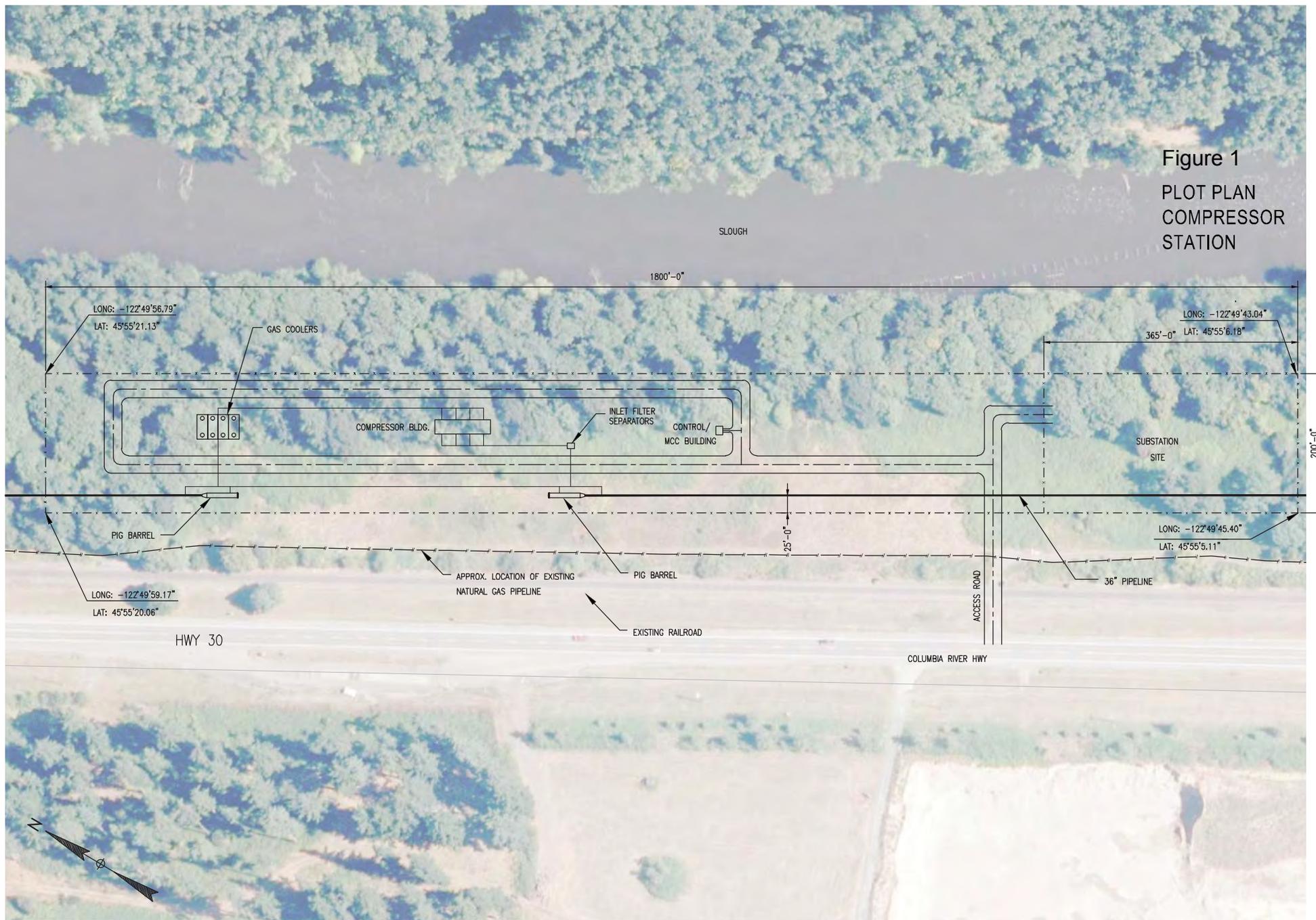


Figure 1
PLOT PLAN
COMPRESSOR
STATION



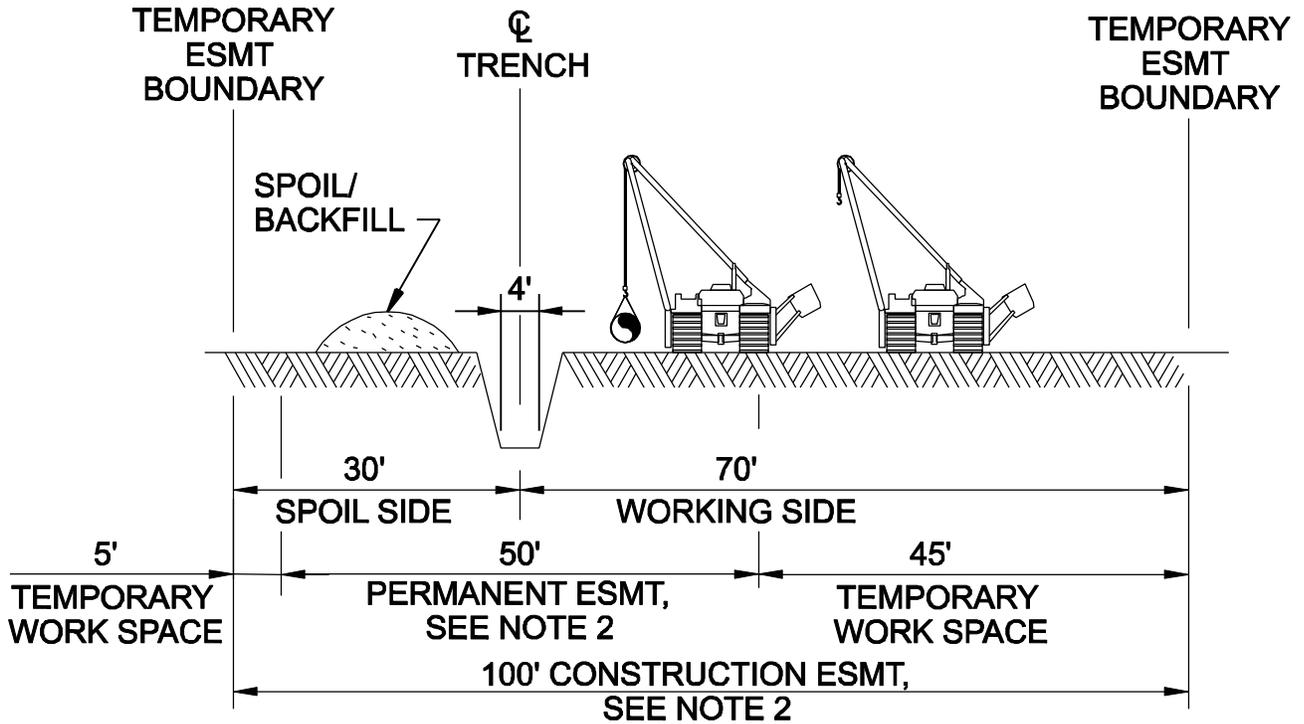
APPENDIX E2

PIPELINE CONSTRUCTION RIGHT-OF-WAY CROSS SECTIONS

1

EASEMENT DETAIL

1"=20'-0"



NOTES:

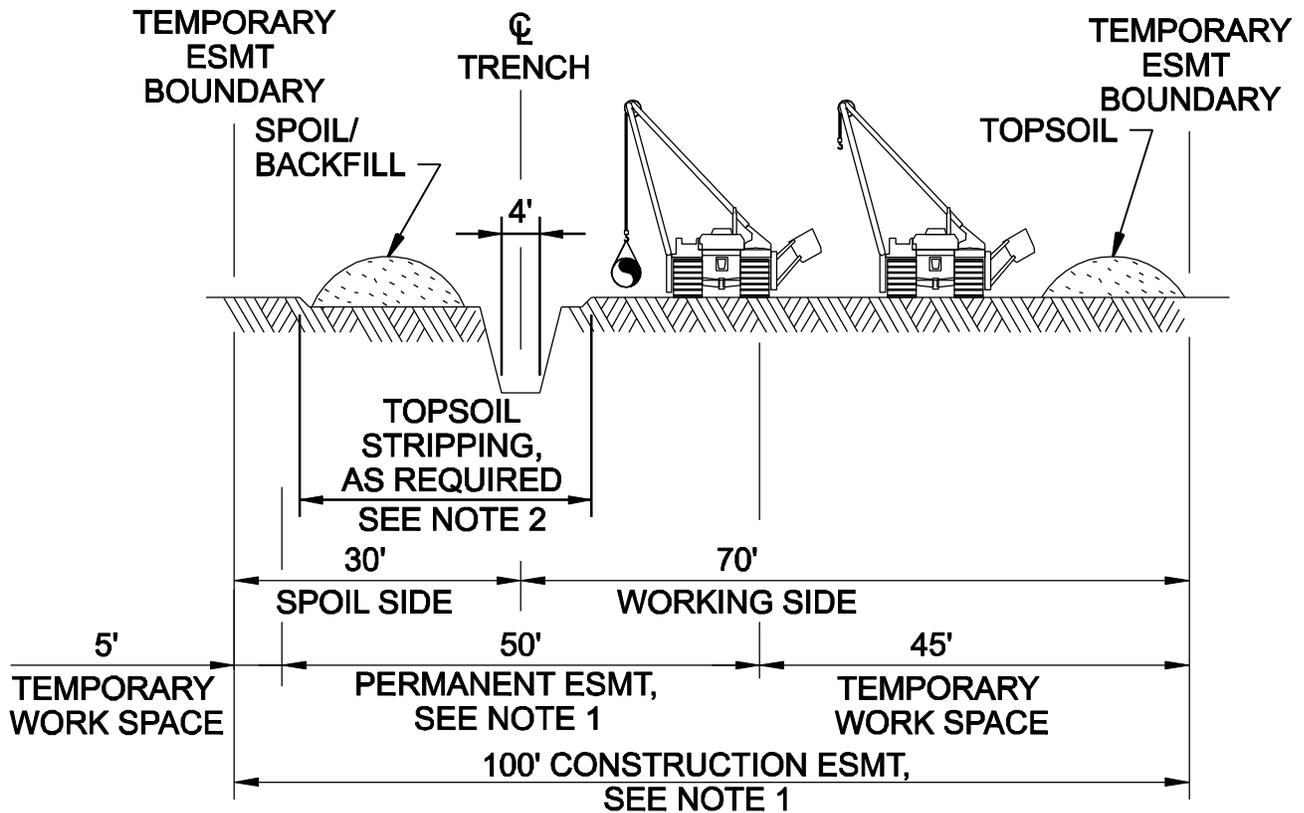
1. EASEMENT CONFIGURATION UTILIZED WHEN CONSTRUCTING ACROSS A GREENFIELD AREA WHERE IDENTIFIED ON THE CONSTRUCTION DRAWINGS.
2. CONSTRUCTION EASEMENT WILL TYPICALLY BE 100' WIDE, CONSISTING OF A 50' PERMANENT EASEMENT, AND 50' OF TEMPORARY WORK SPACE. EXTRA TEMPORARY WORK SPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.

LEGEND			
	TWS (TEMPORARY WORK SPACE)		COUNTY LINE
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)		PERMANENT EASEMENT LINE
	PROPOSED ALIGNMENT MILE POST		ALIGNMENT PI (POINT OF INTERSECTION)
	MAIN LINE VALVE		SECTION LINE
	HDD (HORIZONTAL DIRECTIONAL DRILL) ACCESS POINT		ROADWAY CENTERLINE
	WETLAND BOUNDARY		CITY LIMIT LINE
			PROPERTY LINE
			UTILITY LINE
			OVERHEAD POWER LINE

2

EASEMENT WITH TOPSOIL SEGREGATION DETAIL

1"=20'-0"



NOTES:

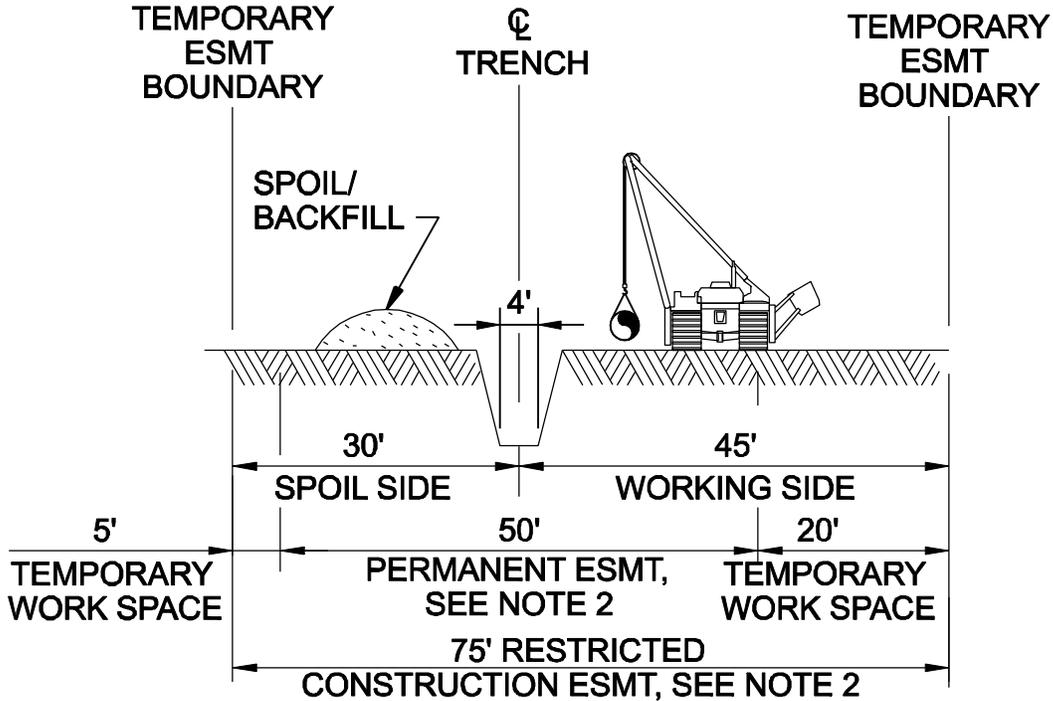
1. CONSTRUCTION EASEMENT WILL TYPICALLY BE 100' WIDE, CONSISTING OF A 50' PERMANENT EASEMENT, AND 50' OF TEMPORARY WORK SPACE. EXTRA TEMPORARY WORK SPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. THIS DRAWING REFLECTS "TRENCH AND SPOIL SIDE" TOPSOIL STRIPPING PROCEDURE. SALVAGE TOPSOIL OVER TRENCH AND UNDER THE SPOIL PILE AT LOCATIONS IDENTIFIED ON THE CONSTRUCTION ALIGNMENT SHEETS, OR AS DIRECTED BY THE COMPANY'S INSPECTOR. DEPTH OF TOPSOIL STRIPPING IS NOT TO EXCEED 12". MINIMUM WIDTH OF TOPSOIL STRIPPING ON THE WORKING SIDE OF THE TRENCH IS 12".
3. STOCKPILE TOPSOIL AS SHOWN OR IN ANY CONFIGURATION APPROVED BY THE COMPANY'S INSPECTOR. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS. MAINTAIN A MINIMUM 12" OF SEPARATION BETWEEN TOPSOIL AND SUBSOIL PILES.

LEGEND	
	TWS (TEMPORARY WORK SPACE)
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)
	PROPOSED ALIGNMENT MILE POST
	MAIN LINE VALVE
	HDD (HORIZONTAL DIRECTIONAL DRILL) ACCESS POINT
	WETLAND BOUNDARY
	COUNTY LINE
	PERMANENT EASEMENT LINE
	ALIGNMENT PI (POINT OF INTERSECTION)
	SECTION LINE
	ROADWAY CENTERLINE
	CITY LIMIT LINE
	PROPERTY LINE
	UTILITY LINE
	OVERHEAD POWER LINE

3

RESTRICTED EASEMENT FOR WETLAND DETAIL

1"=20'-0"



NOTES:

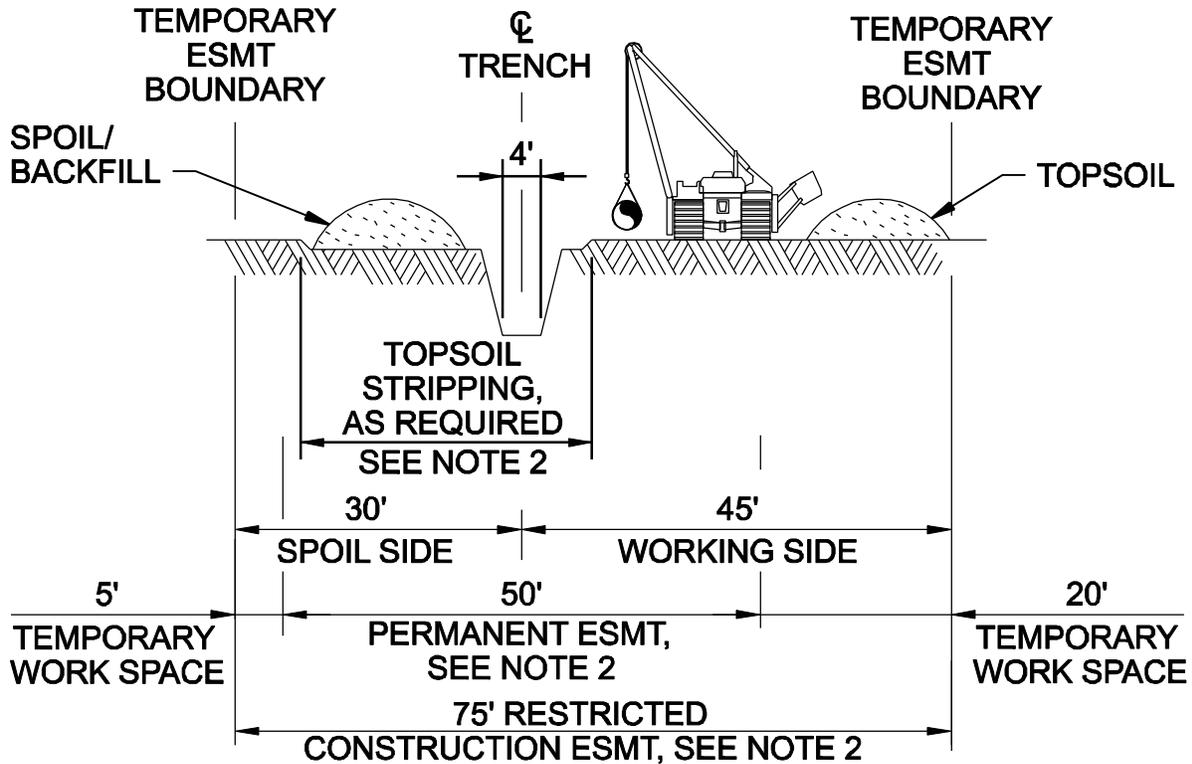
1. EASEMENT CONFIGURATION UTILIZED WHEN CONSTRUCTING ACROSS A WETLAND IN A GREENFIELD AREA WHERE IDENTIFIED ON THE CONSTRUCTION DRAWINGS.
2. CONSTRUCTION EASEMENT WILL TYPICALLY BE 75' WIDE, CONSISTING OF A 50' PERMANENT EASEMENT, AND 25' OF TEMPORARY WORK SPACE. EXTRA TEMPORARY WORK SPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED.

LEGEND			
	TWS (TEMPORARY WORK SPACE)		COUNTY LINE
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)		PERMANENT EASEMENT LINE
	PROPOSED ALIGNMENT MILE POST		ALIGNMENT PI (POINT OF INTERSECTION)
	MAIN LINE VALVE		SECTION LINE
	HDD (HORIZONTAL DIRECTIONAL DRILL) ACCESS POINT		ROADWAY CENTERLINE
	WETLAND BOUNDARY		CITY LIMIT LINE
			PROPERTY LINE
			UTILITY LINE
			OVERHEAD POWER LINE

4

RESTRICTED EASEMENT WITH TOPSOIL SEGREGATION DETAIL

1"=20'-0"



NOTES:

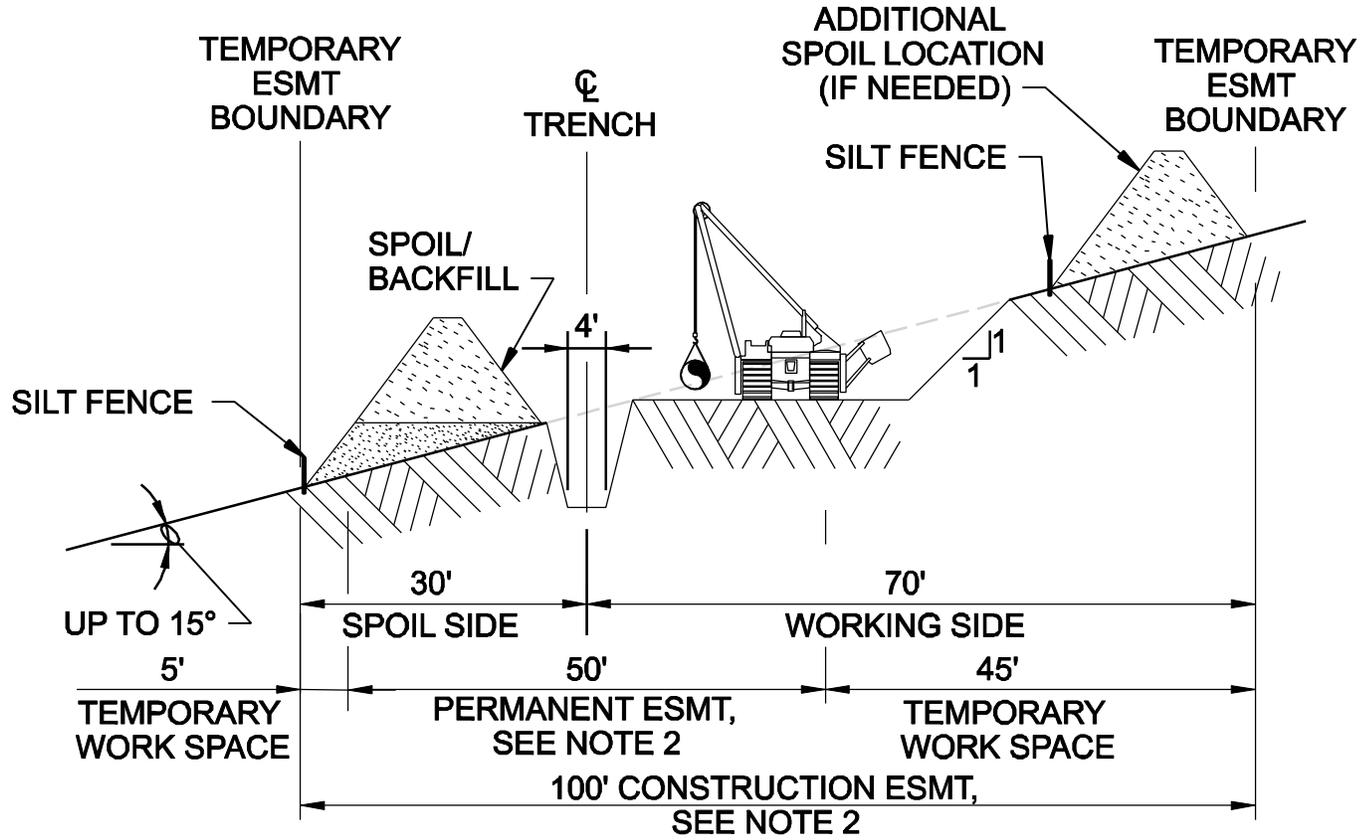
1. CONSTRUCTION EASEMENT WILL TYPICALLY BE 75' WIDE, CONSISTING OF A 50' PERMANENT EASEMENT, AND 25' OF TEMPORARY WORK SPACE. EXTRA TEMPORARY WORK SPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. THIS DRAWING REFLECTS "TRENCH AND SPOIL SIDE" TOPSOIL STRIPPING PROCEDURE. SALVAGE TOPSOIL OVER TRENCH AND UNDER THE SPOIL PILE AT LOCATIONS IDENTIFIED ON THE CONSTRUCTION ALIGNMENT SHEETS, OR AS DIRECTED BY THE COMPANY'S INSPECTOR. DEPTH OF TOPSOIL STRIPPING IS NOT TO EXCEED 12". MINIMUM WIDTH OF TOPSOIL STRIPPING ON THE WORKING SIDE OF THE TRENCH IS 12".
3. STOCKPILE TOPSOIL AS SHOWN OR IN ANY CONFIGURATION APPROVED BY THE COMPANY'S INSPECTOR. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS. MAINTAIN A MINIMUM 12" OF SEPARATION BETWEEN TOPSOIL AND SUBSOIL PILES.

LEGEND			
	TWS (TEMPORARY WORK SPACE)		COUNTY LINE
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)		PERMANENT EASEMENT LINE
	PROPOSED ALIGNMENT MILE POST		ALIGNMENT PI (POINT OF INTERSECTION)
	MAIN LINE VALVE		SECTION LINE
	HDD (HORIZONTAL DIRECTIONAL DRILL) ACCESS POINT		ROADWAY CENTERLINE
	WETLAND BOUNDARY		CITY LIMIT LINE
			PROPERTY LINE
			UTILITY LINE
			OVERHEAD POWER LINE

5

EASEMENT FOR SIDE HILL CONSTRUCTION DETAIL

1"=20'-0"



NOTES:

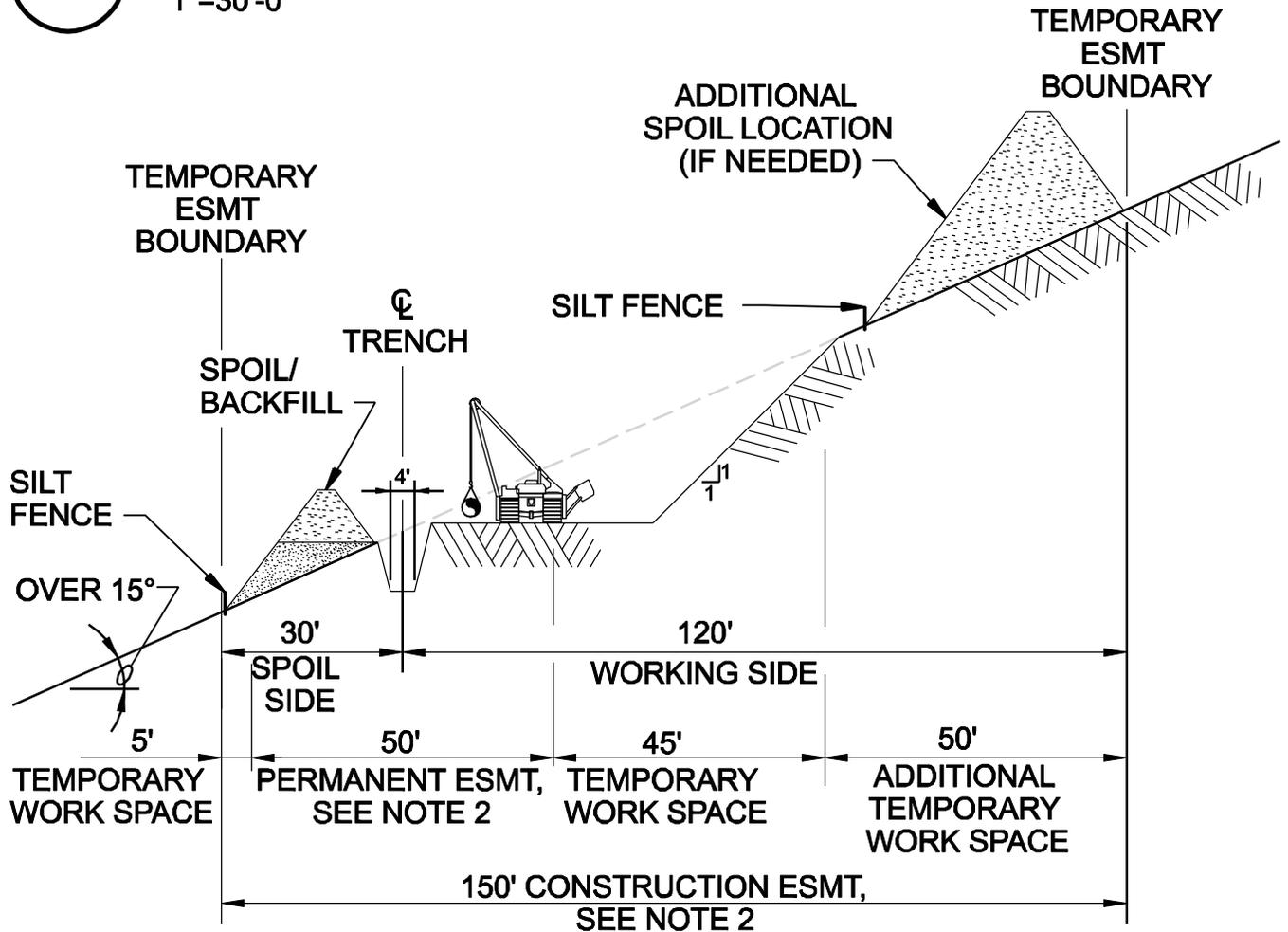
1. SIDE HILL CONSTRUCTION CUT AND FILL SHALL BE ALLOWED WHENEVER, IN THE OPINION OF THE CONTRACTOR, STEEP SIDE HILL CONSTRUCTION IS WARRANTED FOR PERSONAL AND/OR EQUIPMENT SAFETY CONSIDERATIONS.
2. CONSTRUCTION EASEMENT WILL TYPICALLY BE 100' WIDE, CONSISTING OF A 50' PERMANENT EASEMENT AND A 50' OF TEMPORARY WORK SPACE. EXTRA TEMPORARY WORK SPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.

LEGEND	
	TWS (TEMPORARY WORK SPACE)
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)
	PROPOSED ALIGNMENT MILE POST
	MAIN LINE VALVE
	HDD (HORIZONTAL DIRECTIONAL DRILL) ACCESS POINT
	WETLAND BOUNDARY
	COUNTY LINE
	PERMANENT EASEMENT LINE
	ALIGNMENT PI (POINT OF INTERSECTION)
	SECTION LINE
	ROADWAY CENTERLINE
	CITY LIMIT LINE
	PROPERTY LINE
	UTILITY LINE
	OVERHEAD POWER LINE

6

EASEMENT FOR SEVERE SIDE HILL CONSTRUCTION DETAIL

1"=30'-0"



NOTES:

1. SIDE HILL CONSTRUCTION CUT AND FILL SHALL BE ALLOWED WHENEVER, IN THE OPINION OF THE CONTRACTOR, STEEP SIDE HILL CONSTRUCTION IS WARRANTED FOR PERSONAL AND/OR EQUIPMENT SAFETY CONSIDERATIONS.
2. CONSTRUCTION EASEMENT WILL TYPICALLY BE 100' WIDE, CONSISTING OF A 50' PERMANENT EASEMENT AND A 50' OF TEMPORARY WORK SPACE. EXTRA TEMPORARY WORK SPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.

LEGEND			
	TWS (TEMPORARY WORK SPACE)		COUNTY LINE
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)		PERMANENT EASEMENT LINE
	PROPOSED ALIGNMENT MILE POST		ALIGNMENT PI (POINT OF INTERSECTION)
	MAIN LINE VALVE		SECTION LINE
	HDD (HORIZONTAL DIRECTIONAL DRILL) ACCESS POINT		ROADWAY CENTERLINE
	WETLAND BOUNDARY		CITY LIMIT LINE
			PROPERTY LINE
			UTILITY LINE
			OVERHEAD POWER LINE

APPENDIX E3

PIPELINE ROUTE MINOR VARIATIONS

Figure 1
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

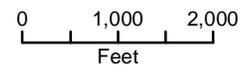
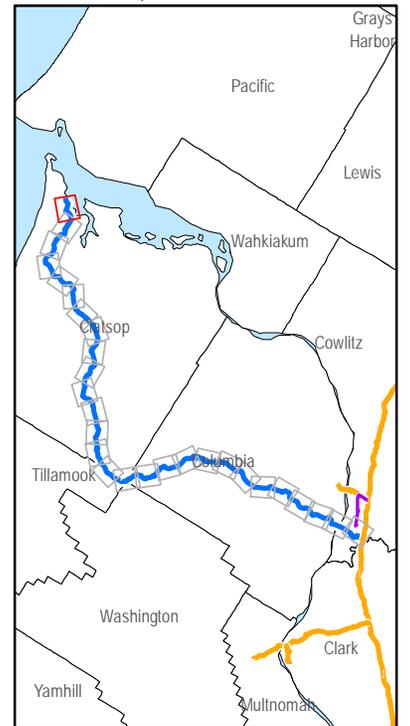
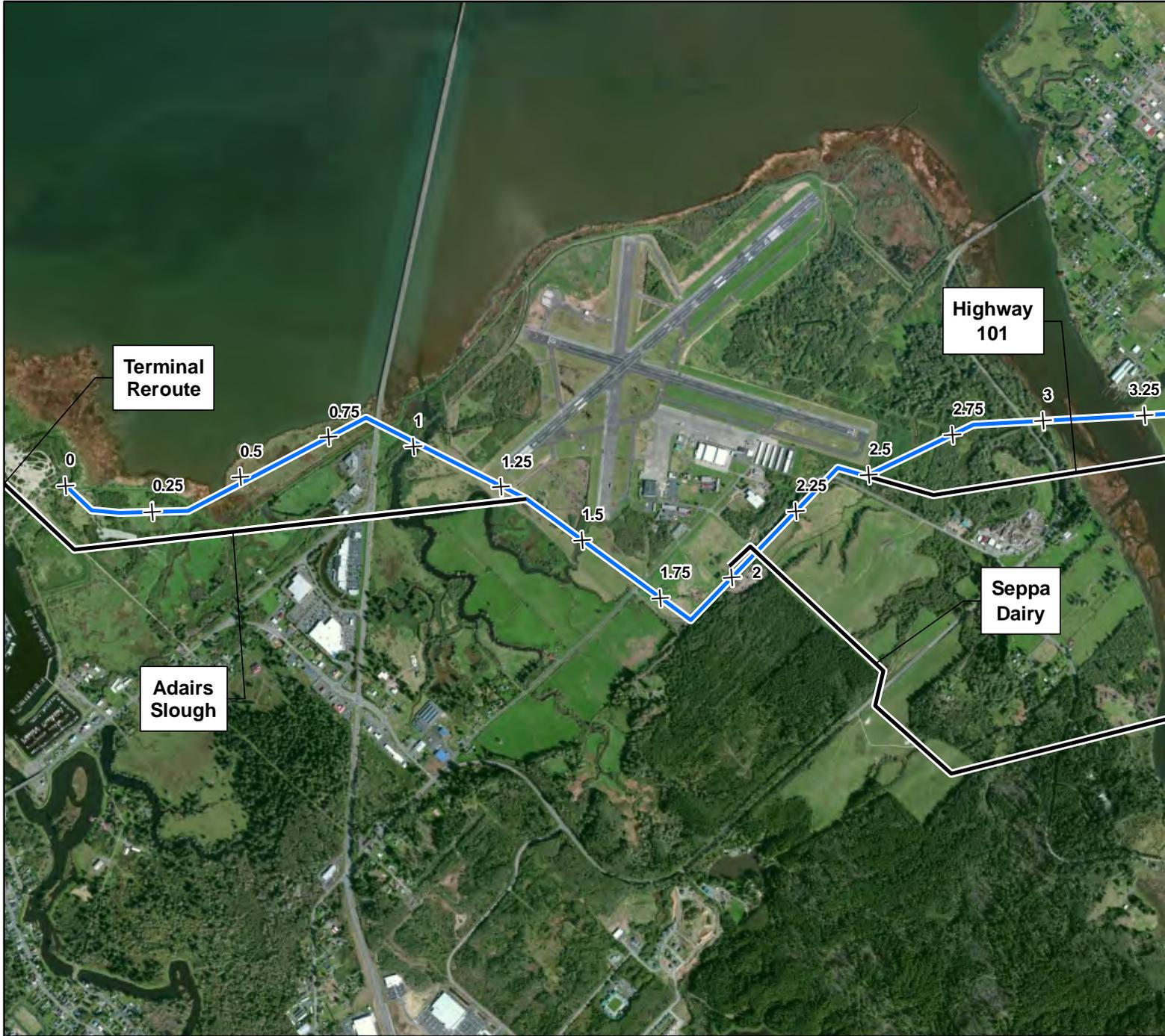


Figure 2
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

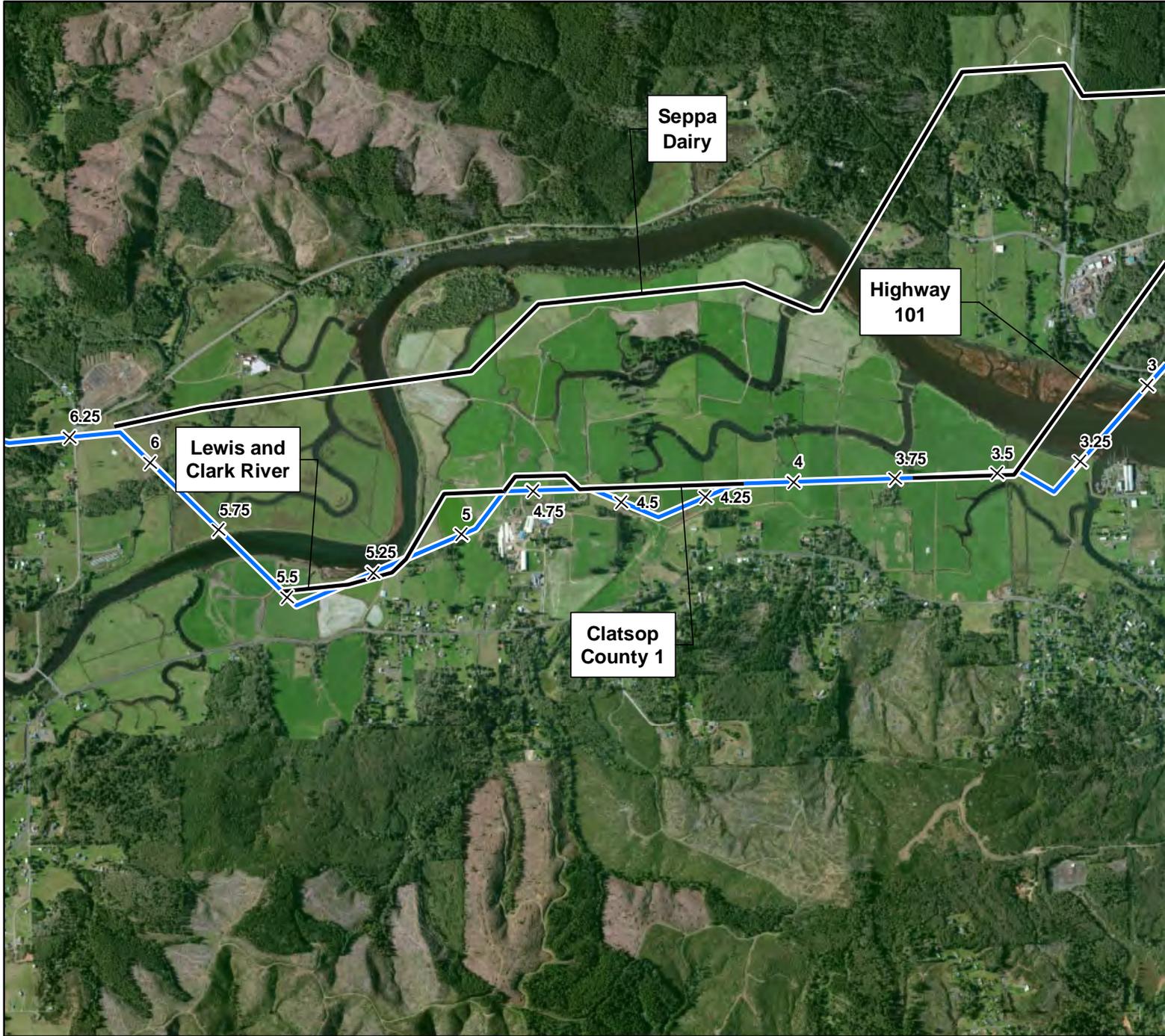
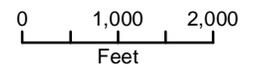
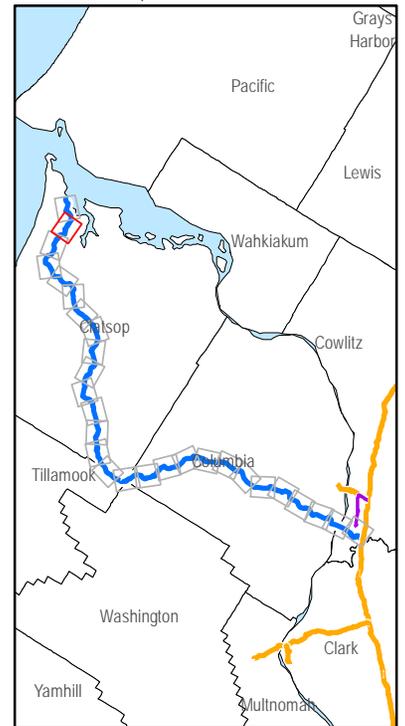
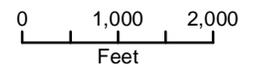
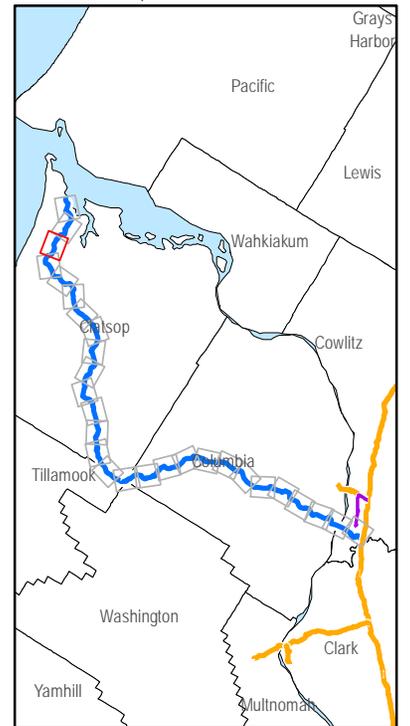




Figure 3
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline



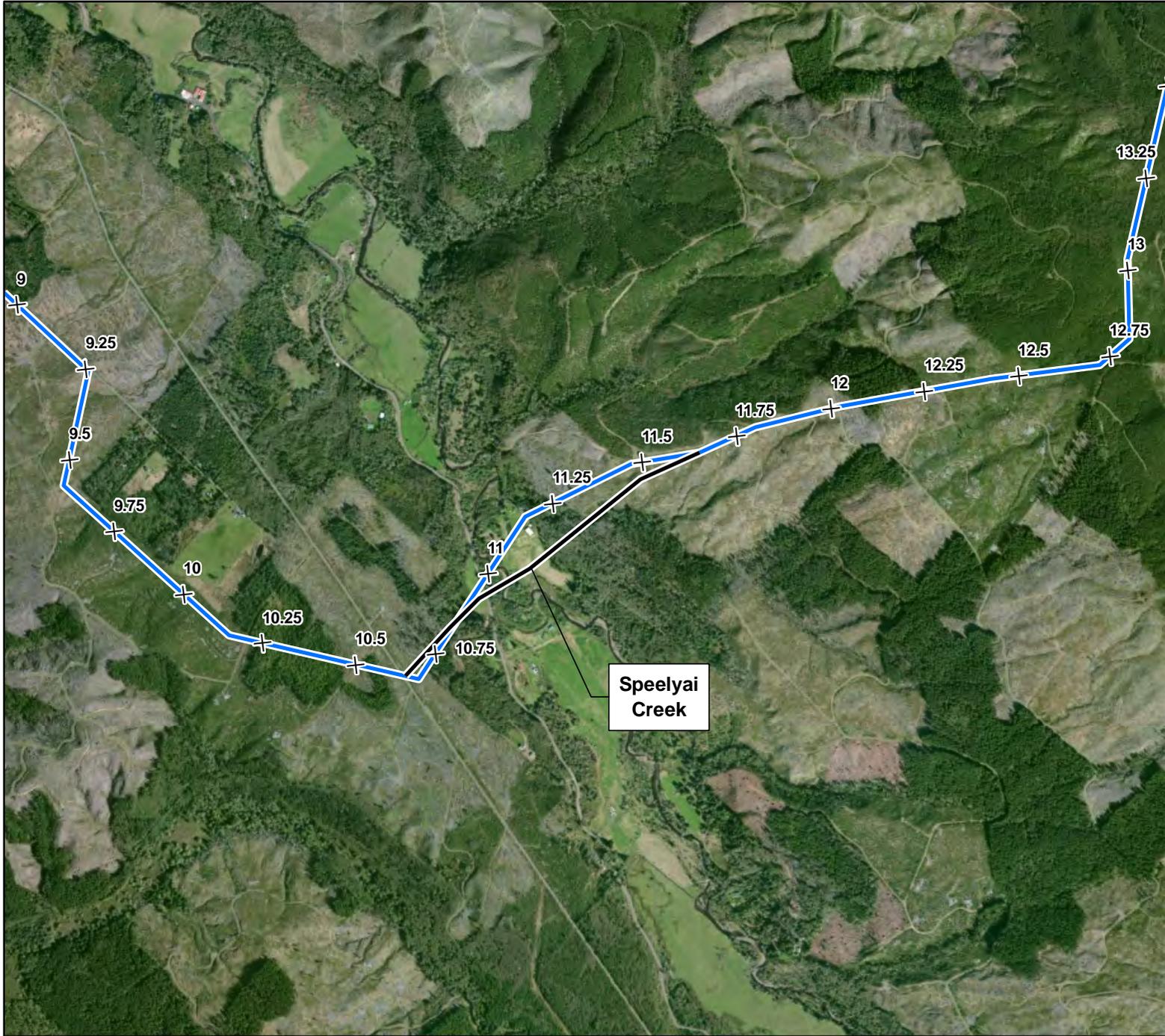
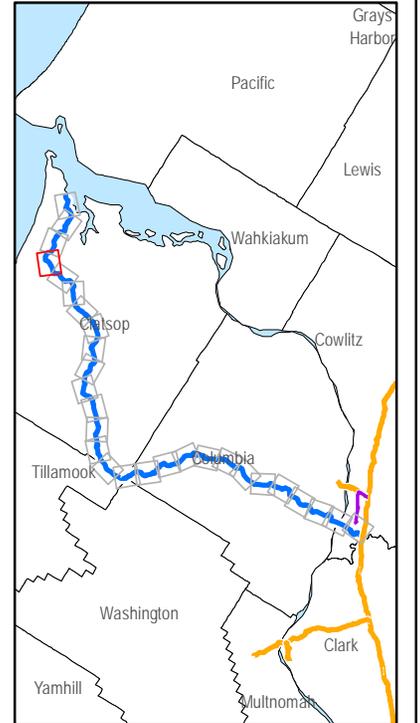


Figure 4
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet



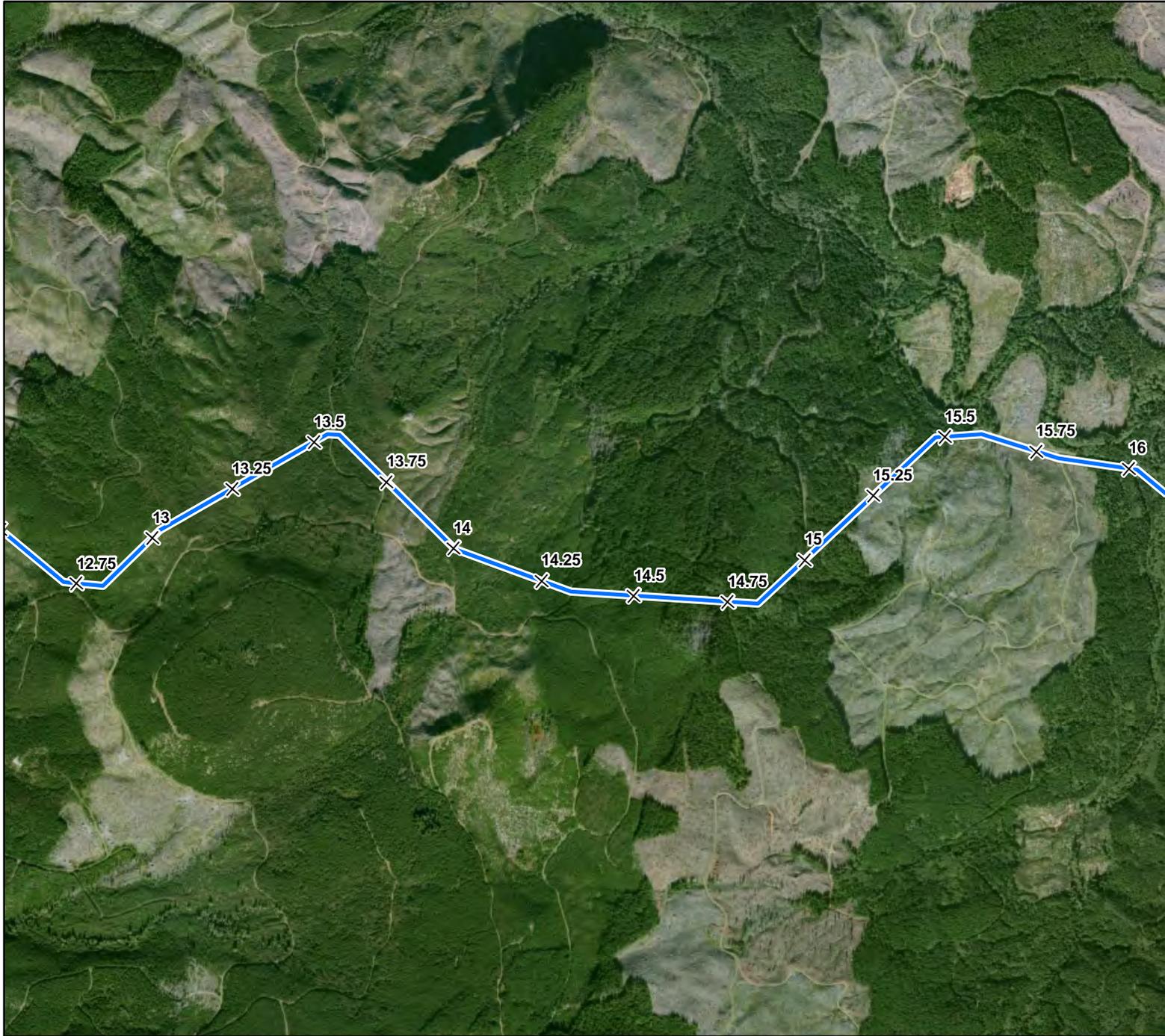
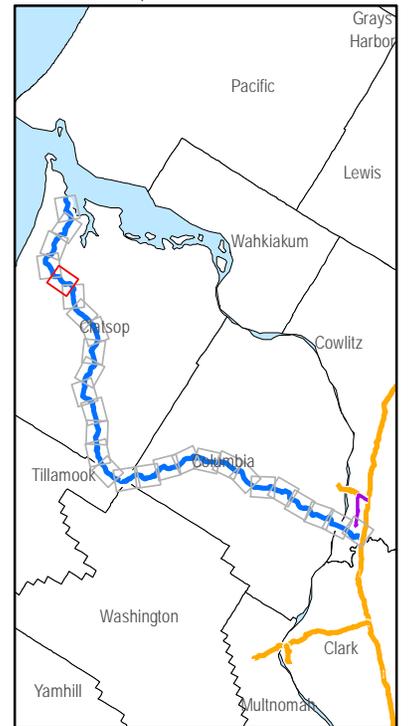


Figure 5
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet





Figure 6
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

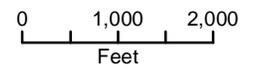
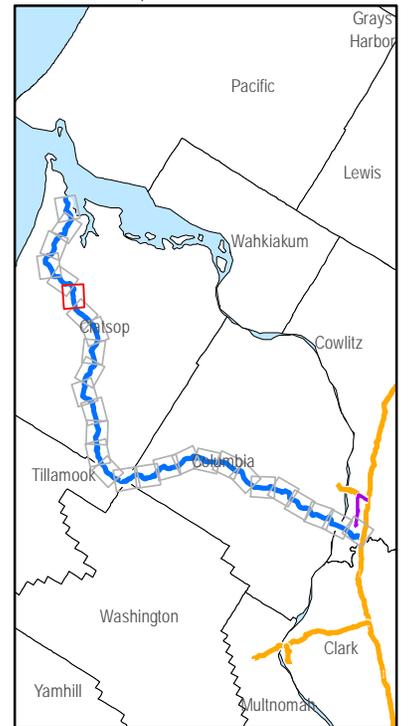




Figure 7
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

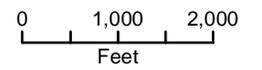
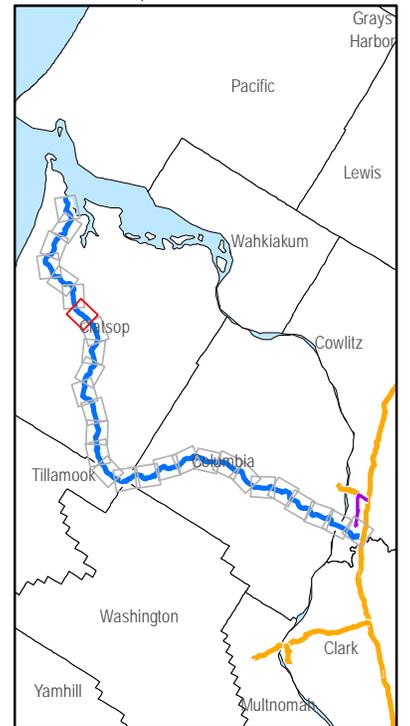
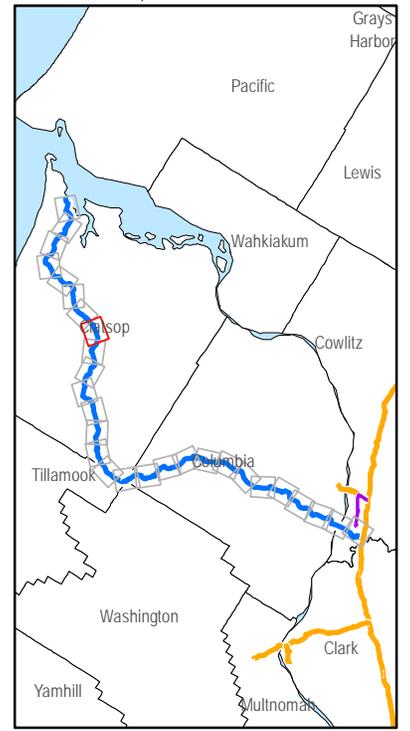




Figure 8
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet



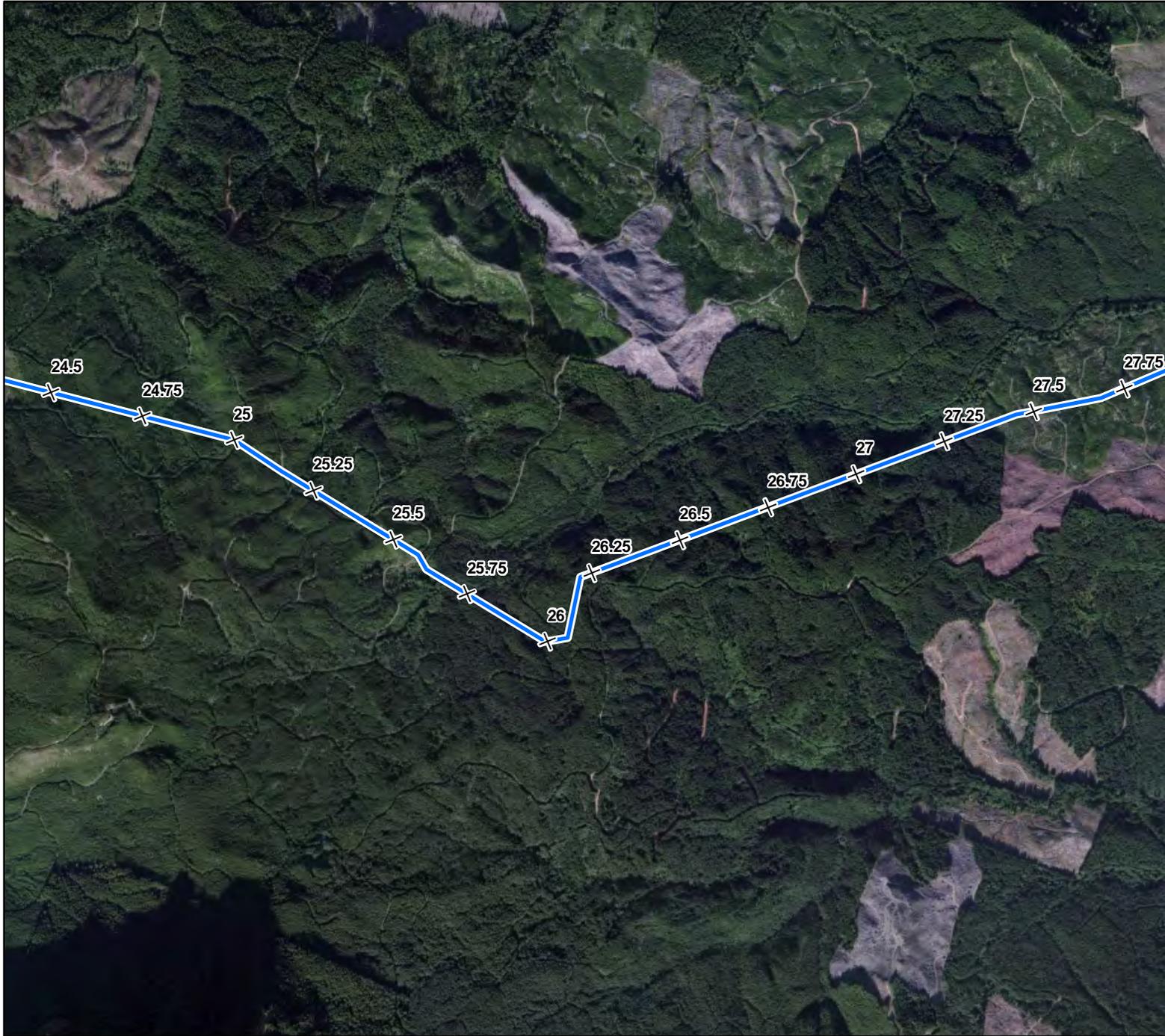
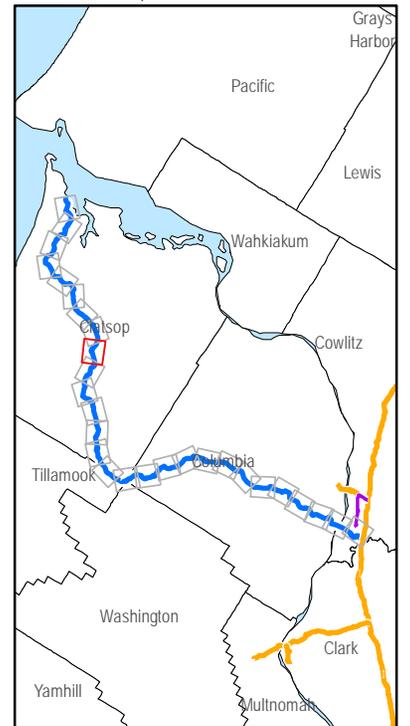


Figure 9
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

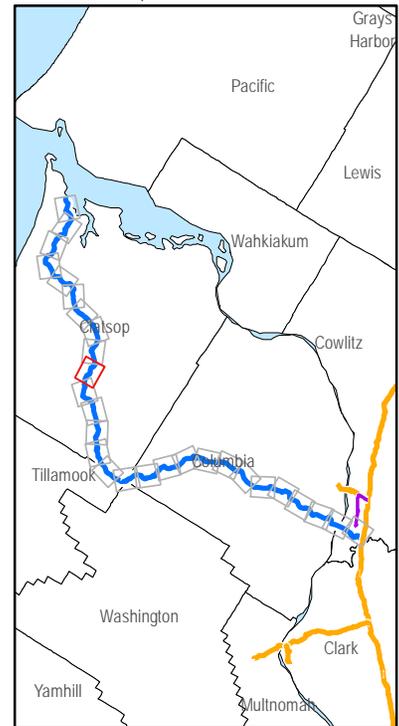


0 1,000 2,000
Feet



Figure 10
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet



Figure 11
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

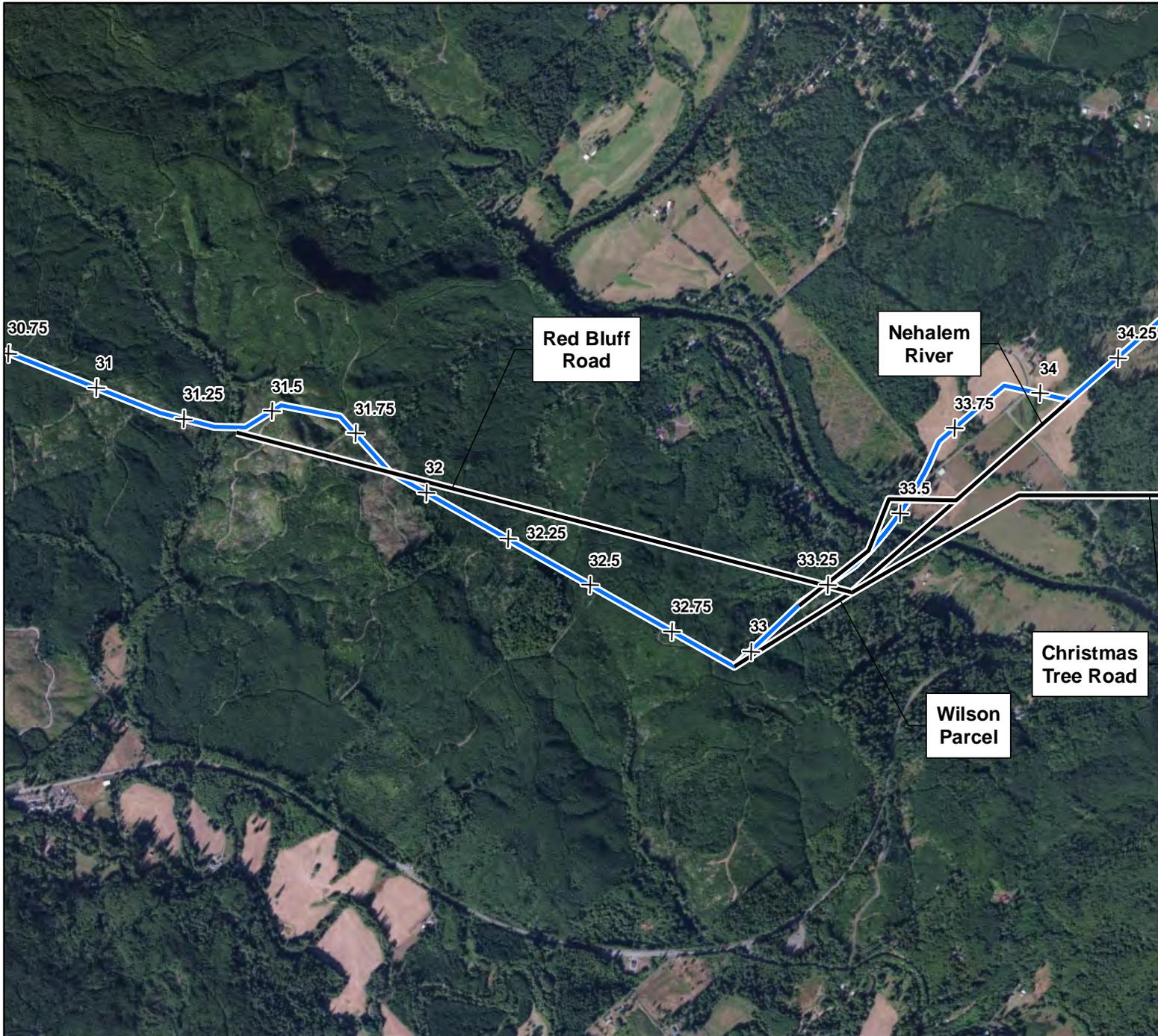
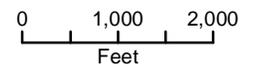
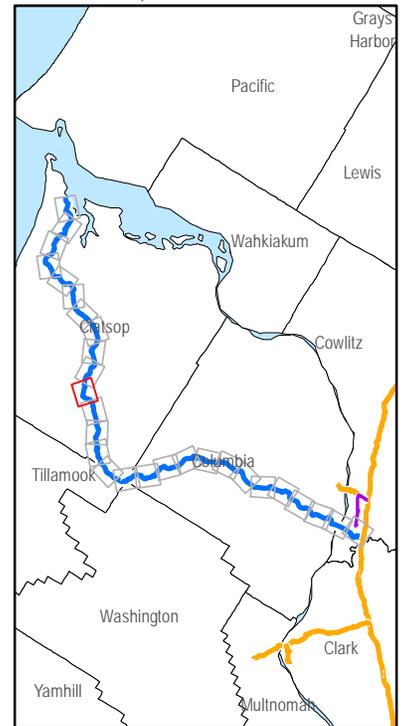


Figure 12
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

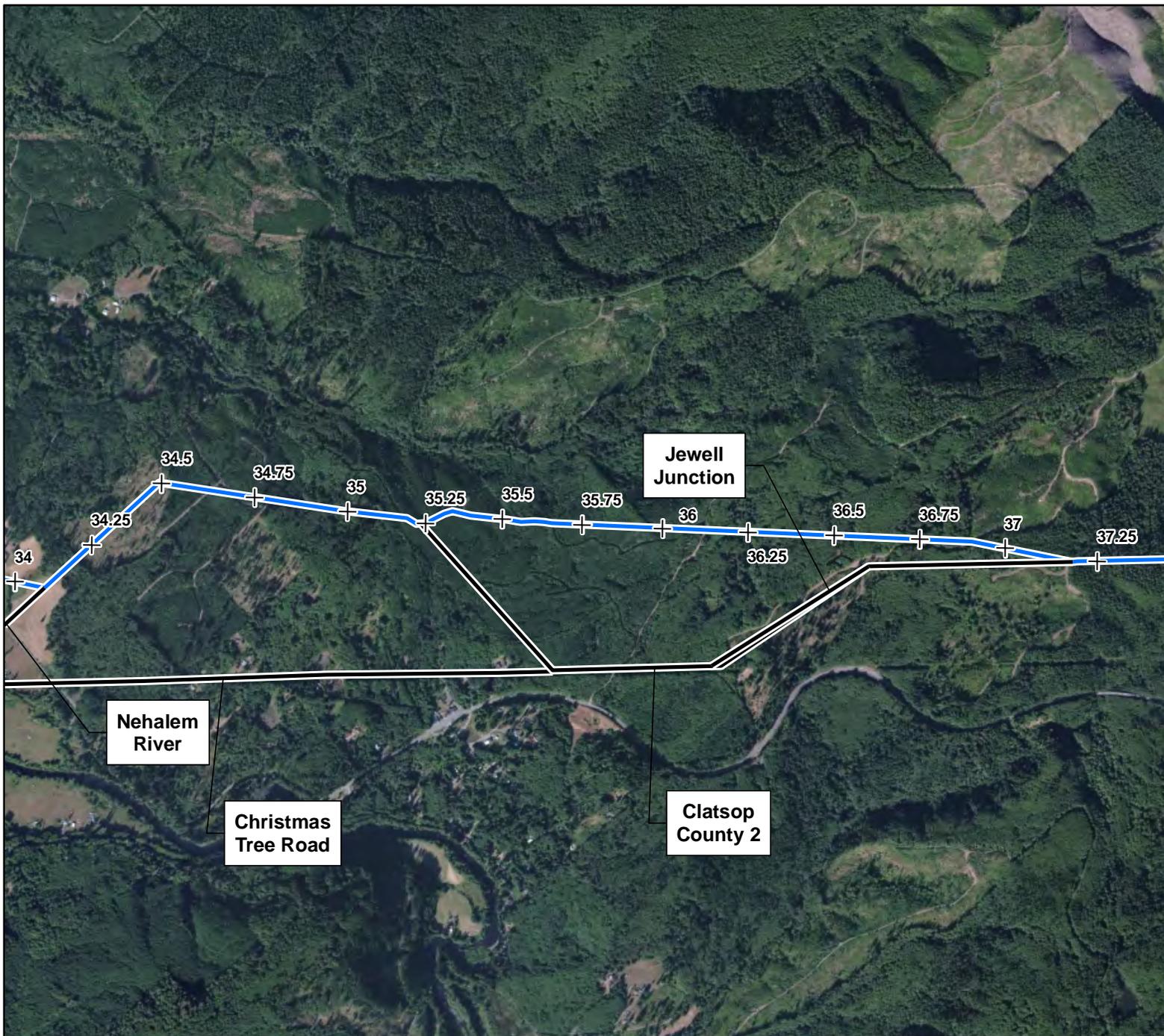
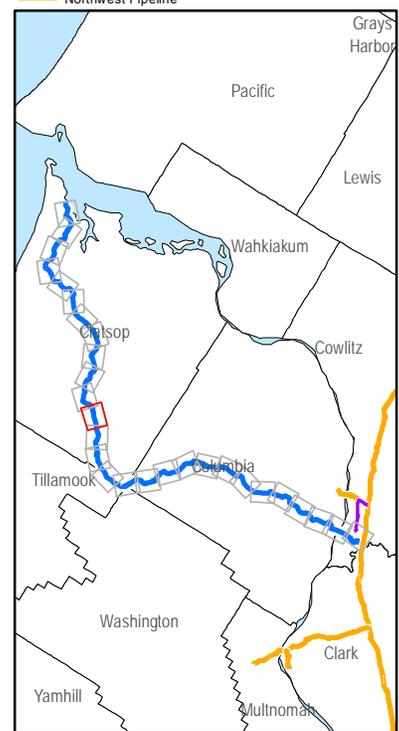
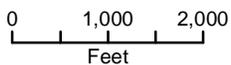
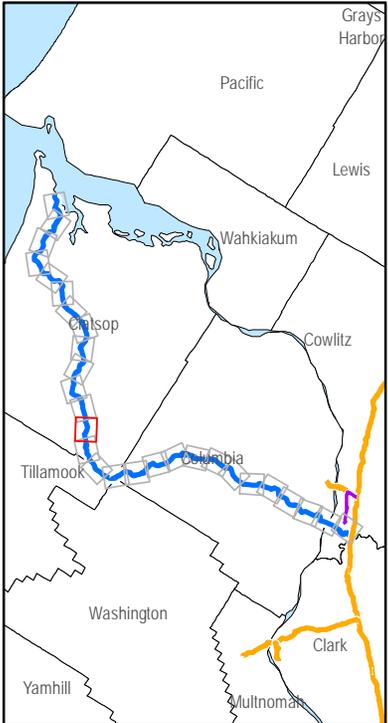


Figure 13
 Proposed and Minor
 Alternative Pipeline
 Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

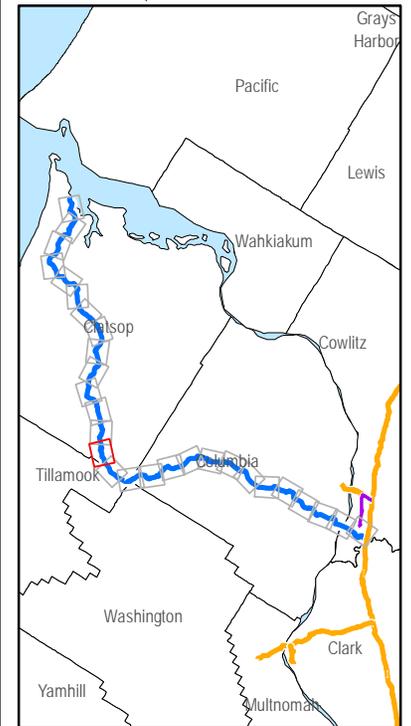


Clatsop
 County 2

Figure 14
Proposed and Minor
Alternative Pipeline
Route Variations



- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



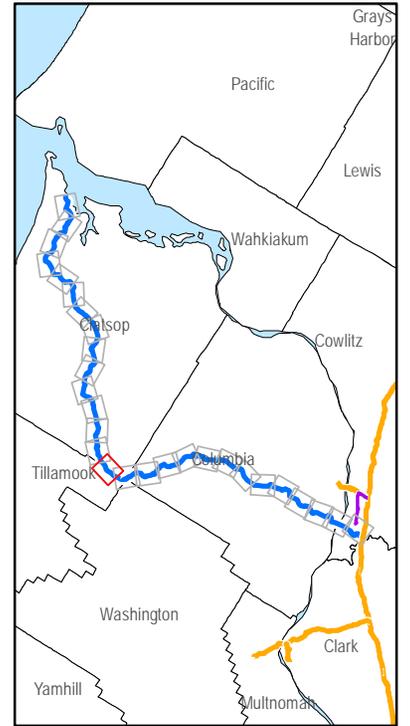
0 1,000 2,000
Feet





Figure 15
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

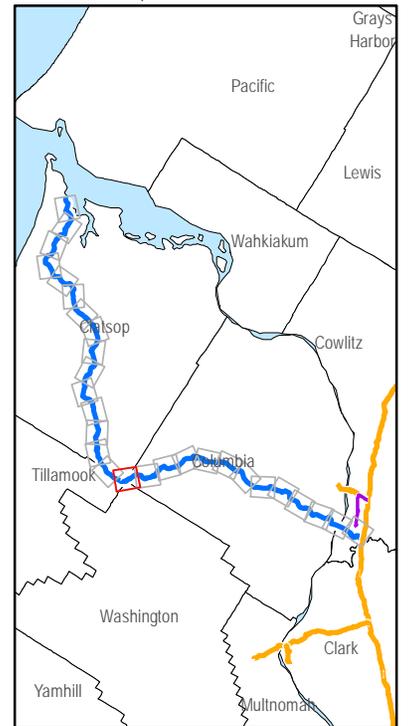
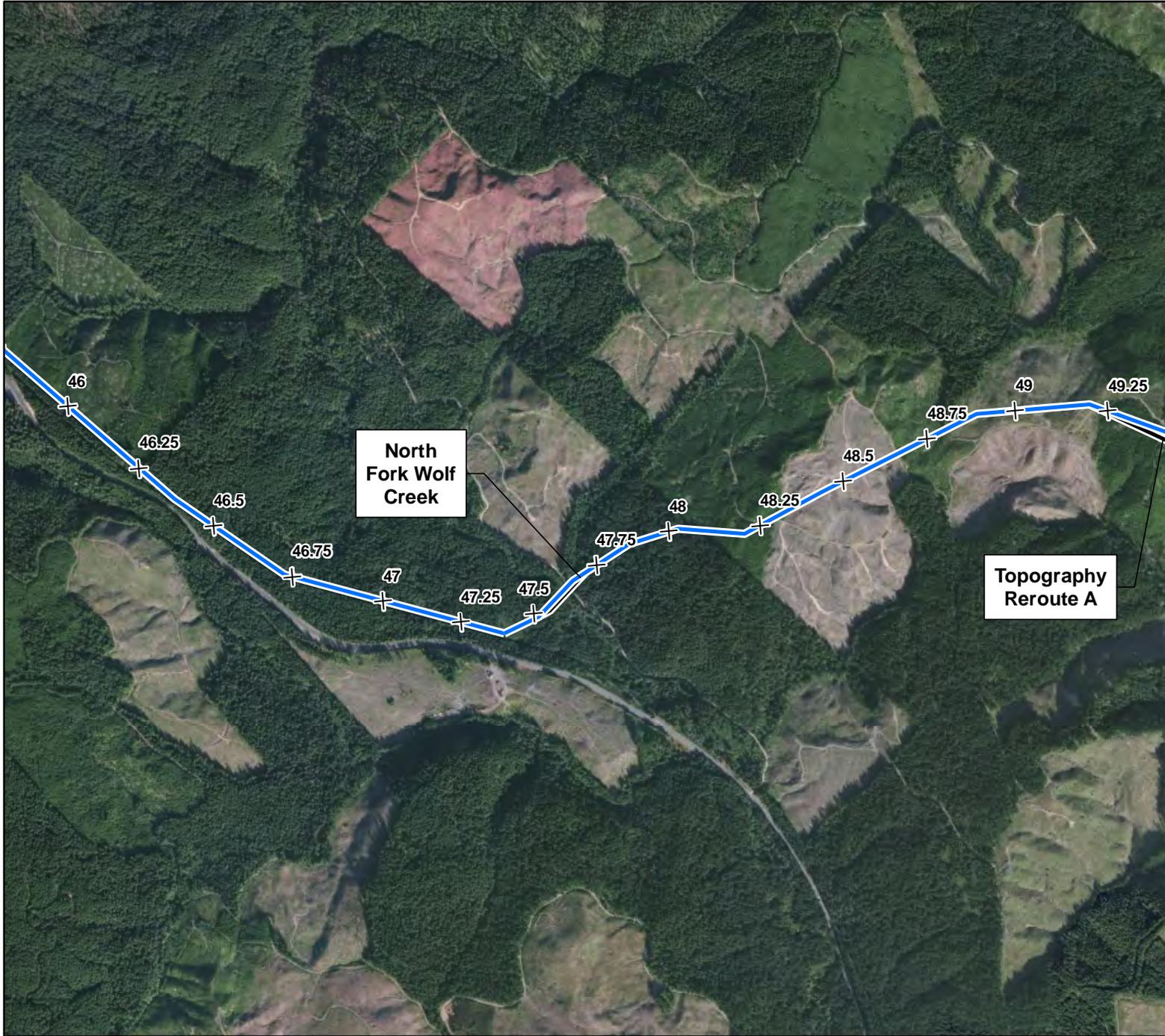


0 1,000 2,000
Feet



Figure 16
Proposed and Minor
Alternative Pipeline
Route Variations

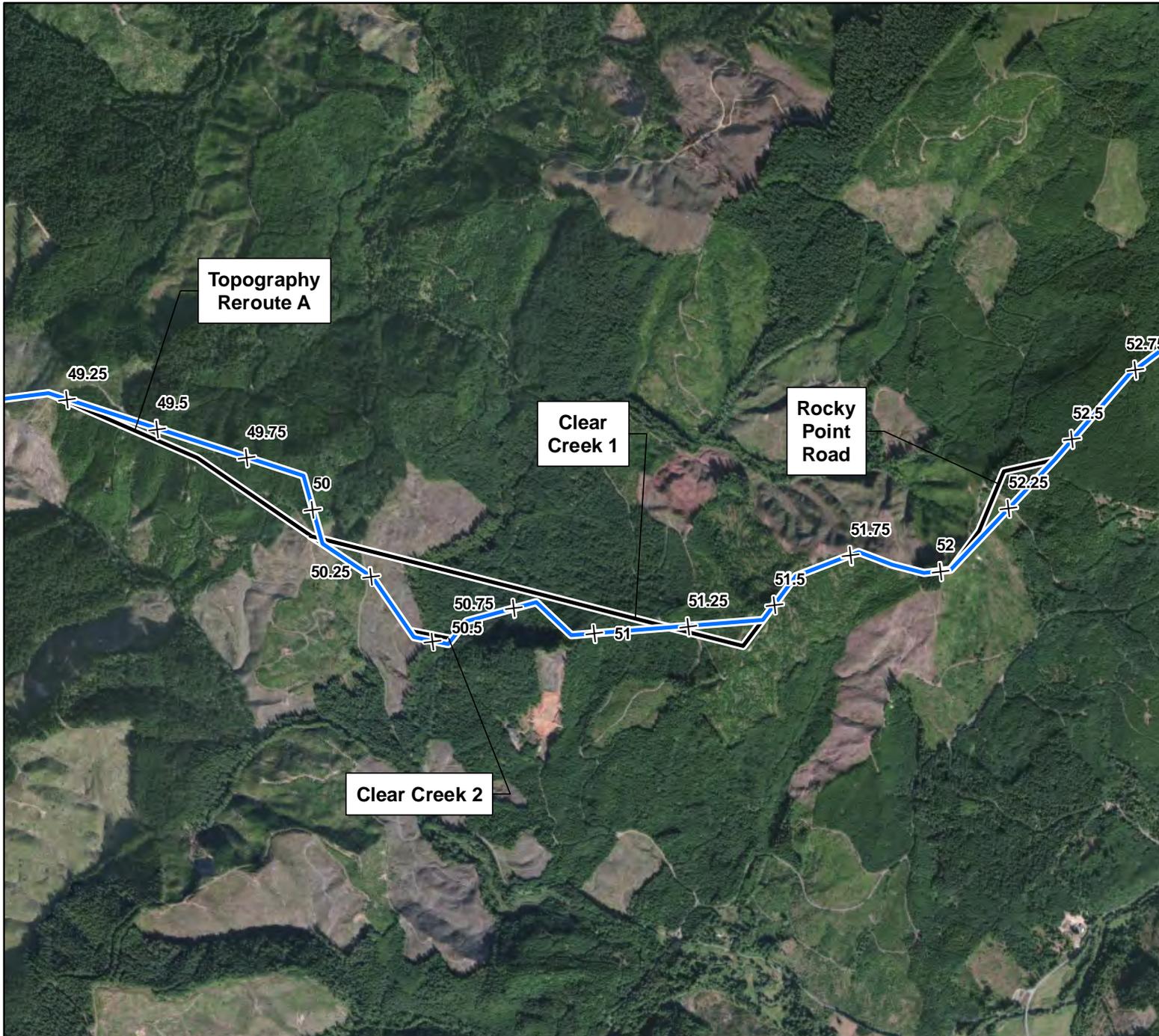
- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet

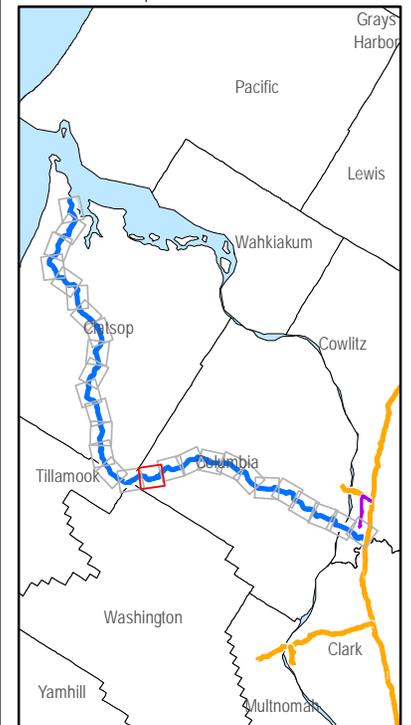


Figure 17
Proposed and Minor
Alternative Pipeline
Route Variations



Legend

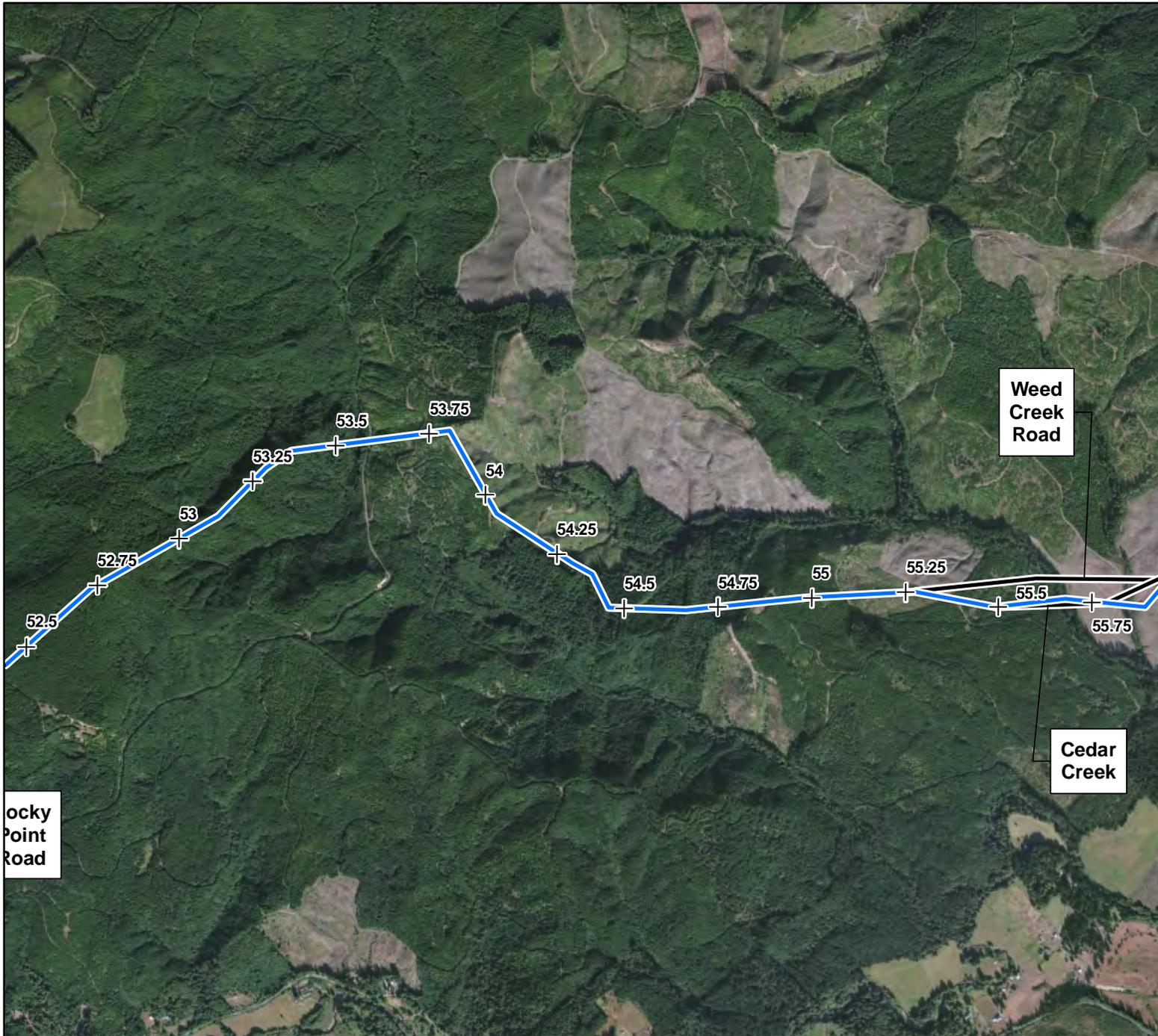
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- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline



0 1,000 2,000
Feet

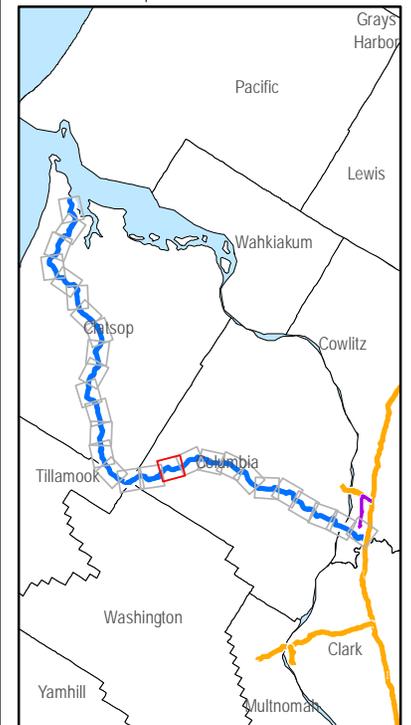


Figure 18
Proposed and Minor
Alternative Pipeline
Route Variations



Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

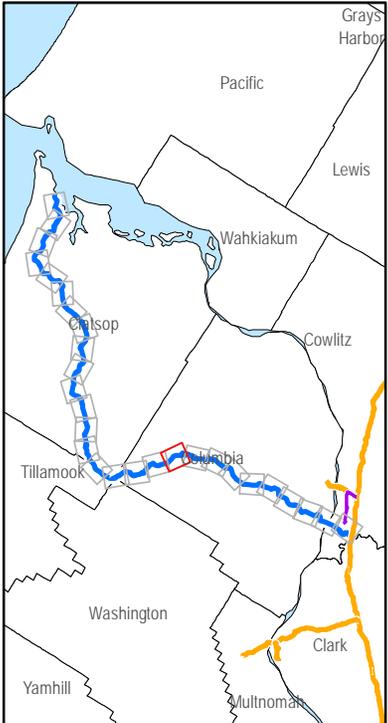


0 1,000 2,000
Feet



Figure 19
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet

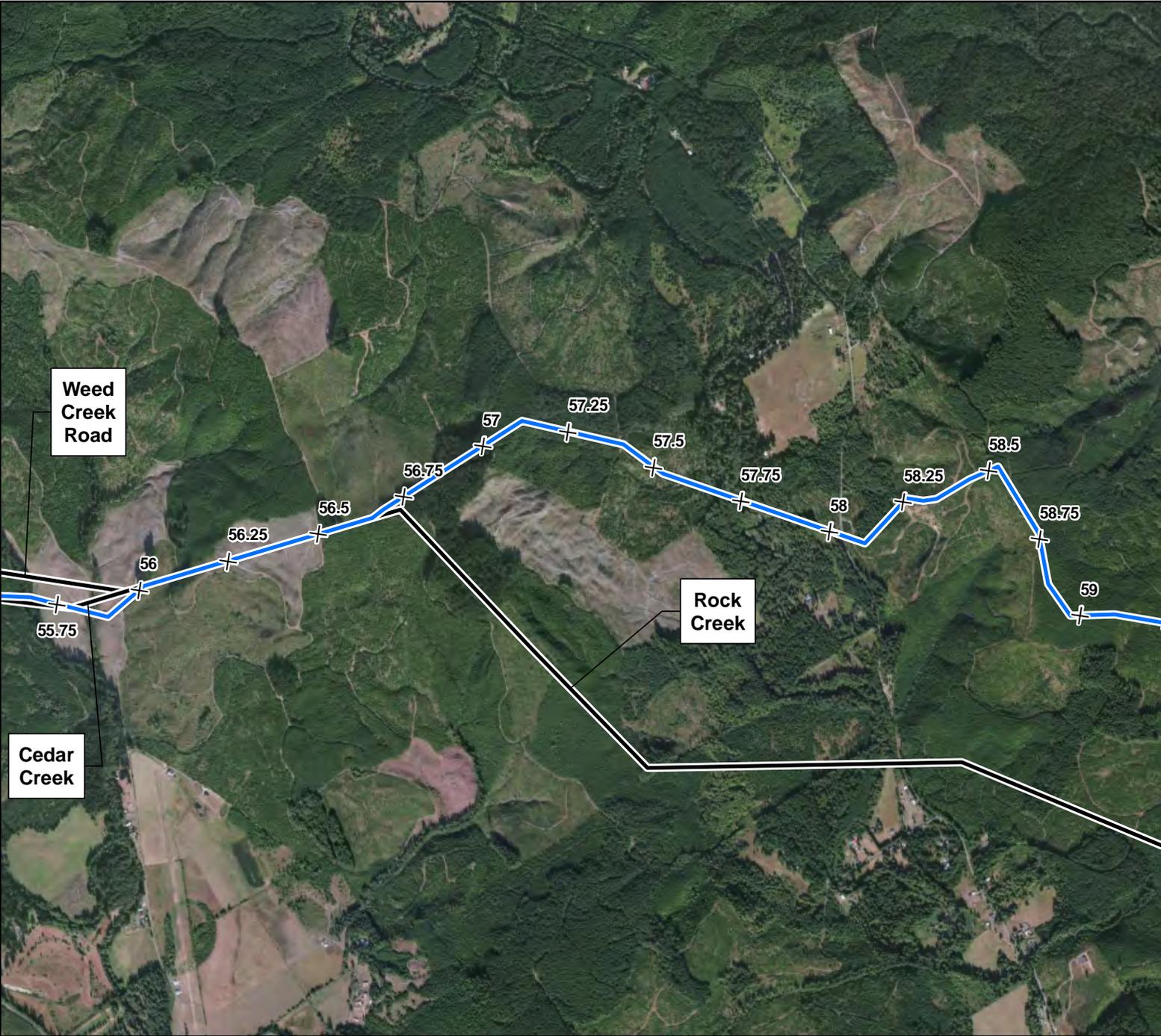


Figure 20
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

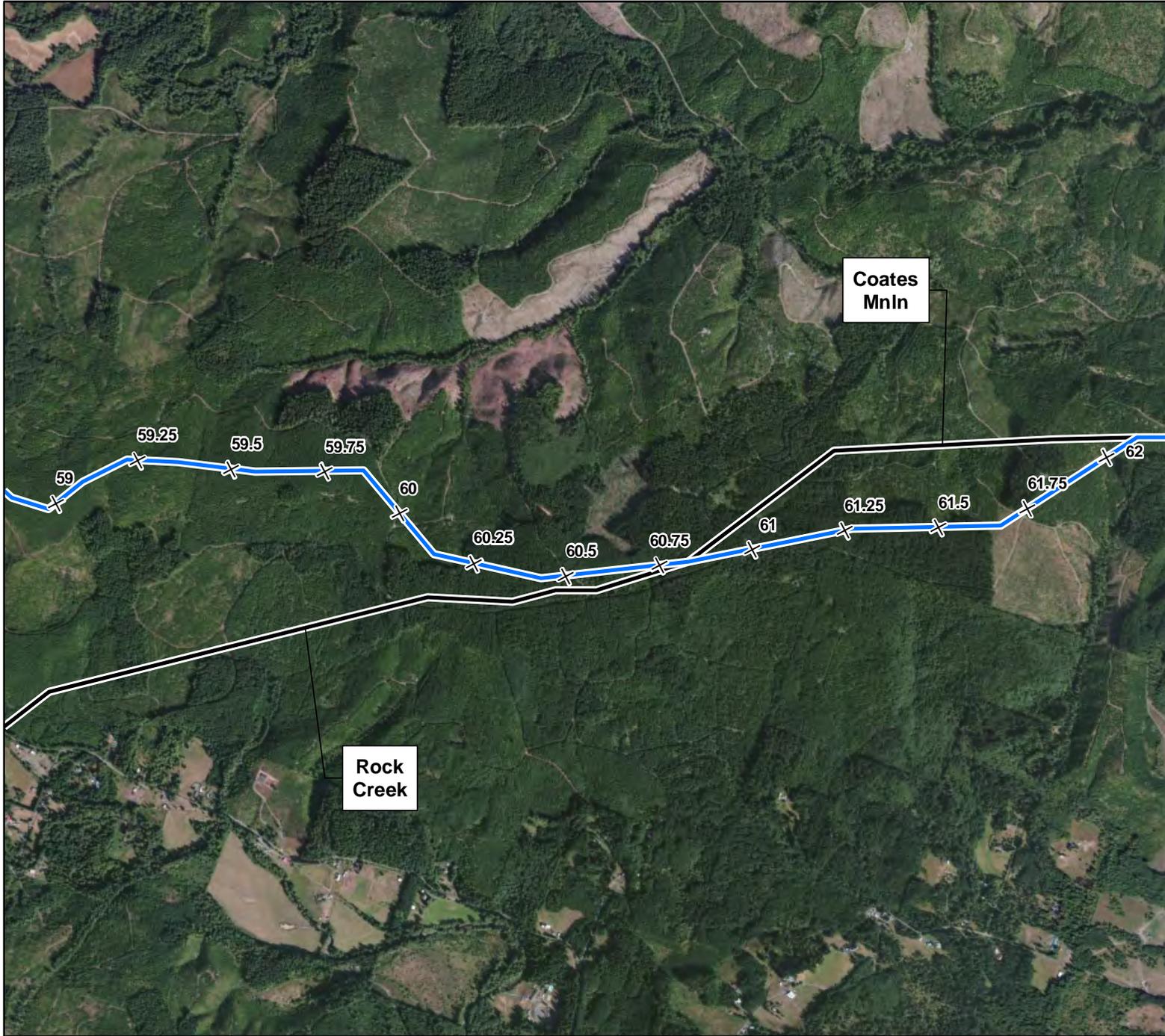
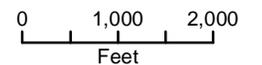
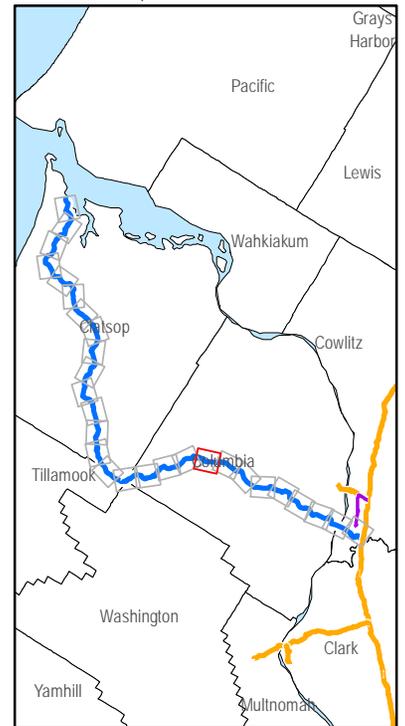


Figure 21
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

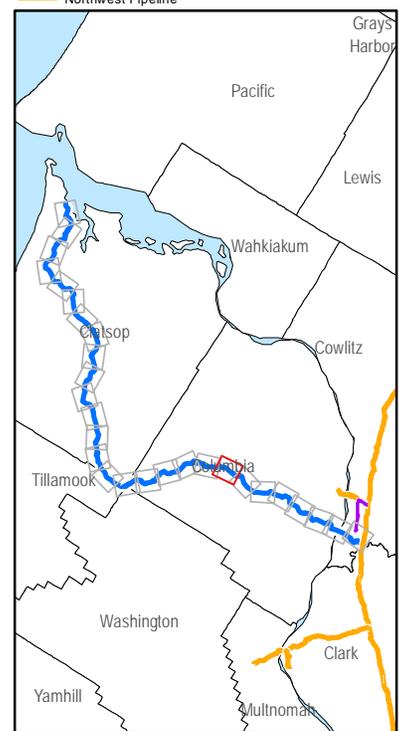
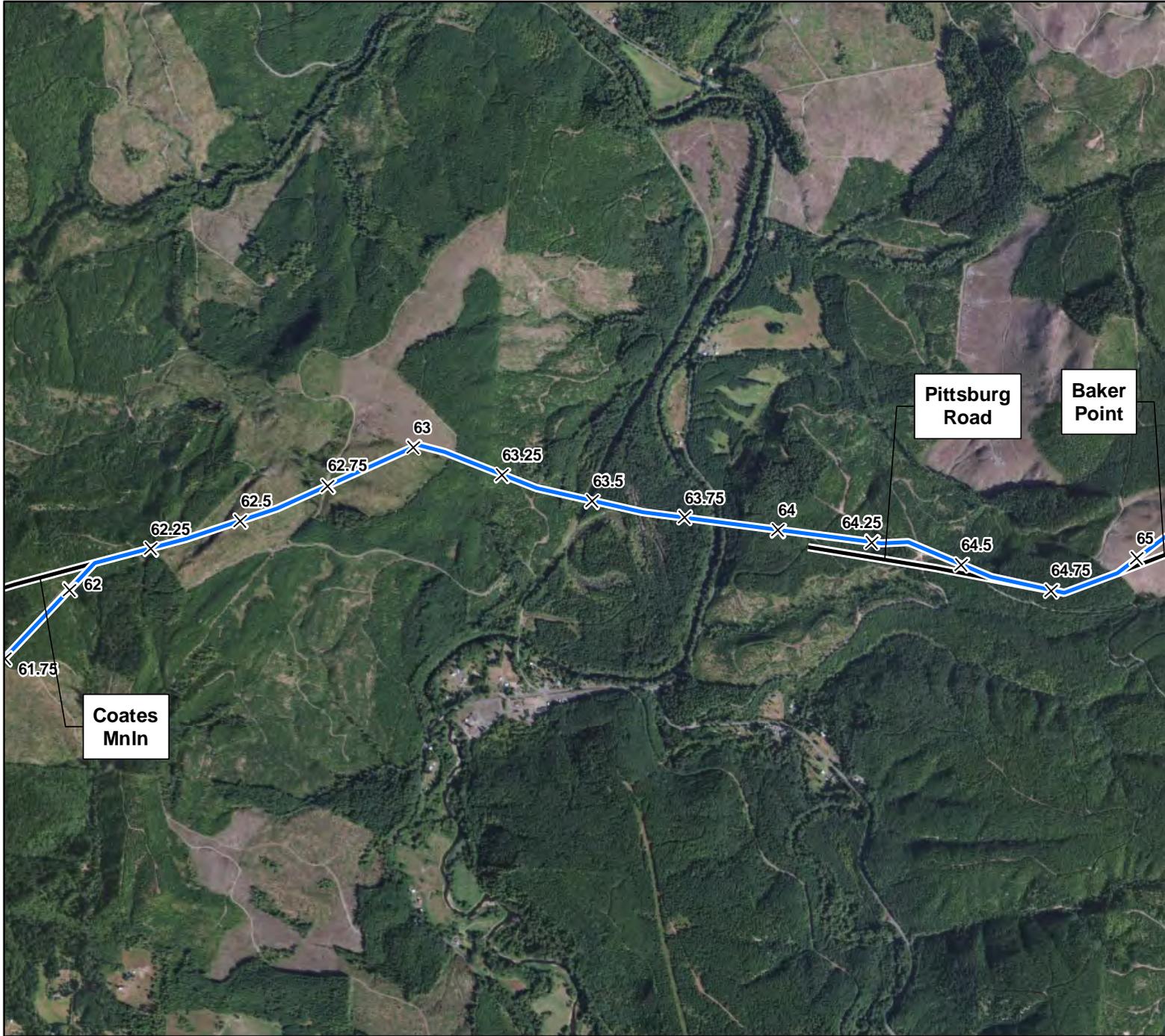


Figure 22
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

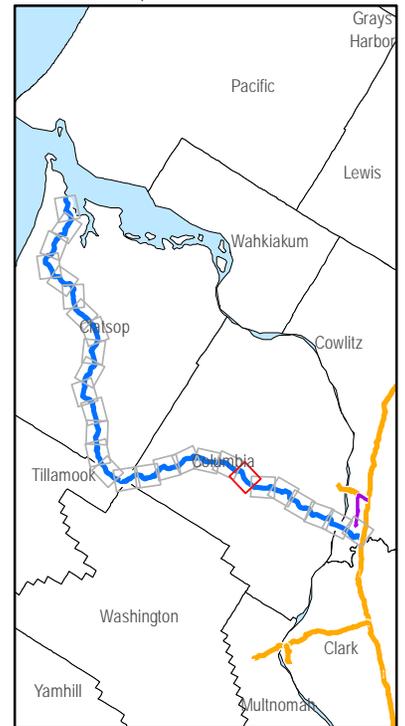
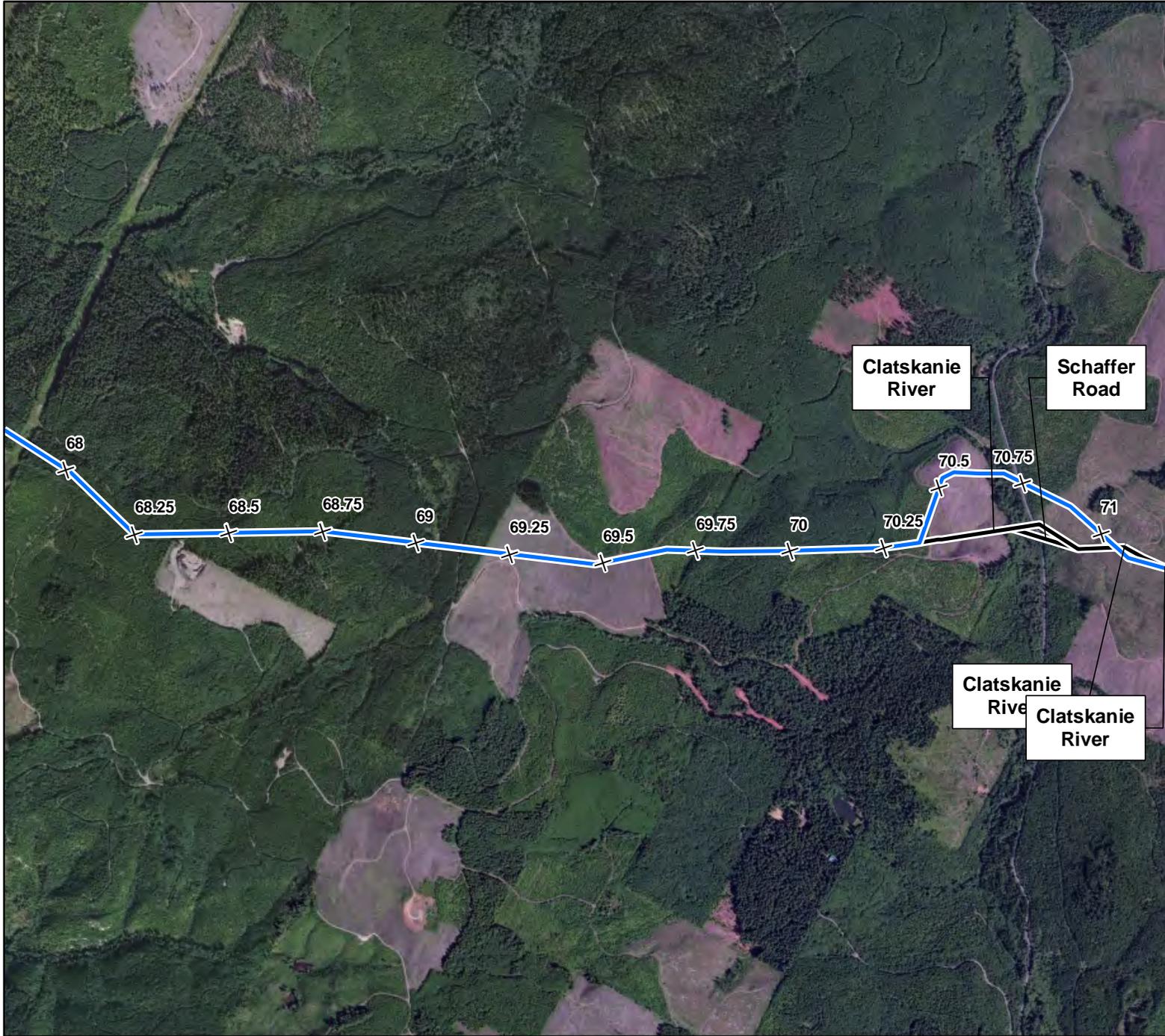


Figure 23
Proposed and Minor
Alternative Pipeline
Route Variations



- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

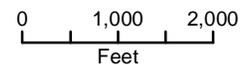
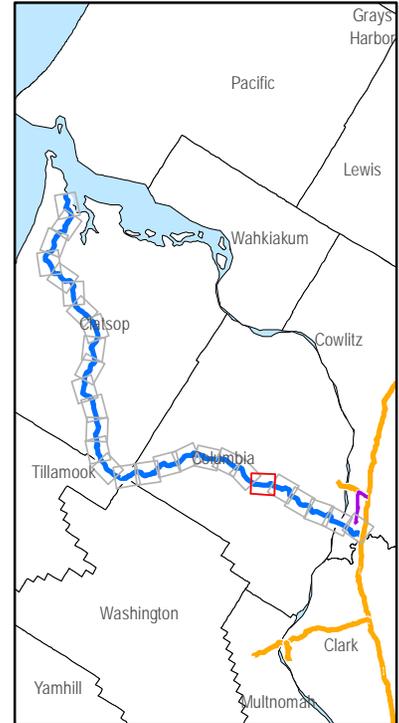


Figure 24
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline

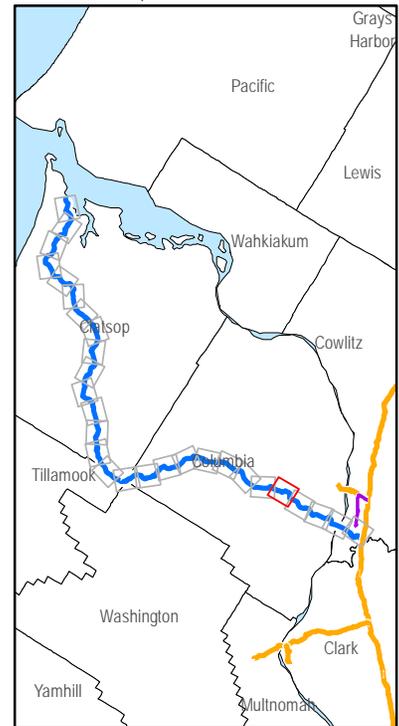
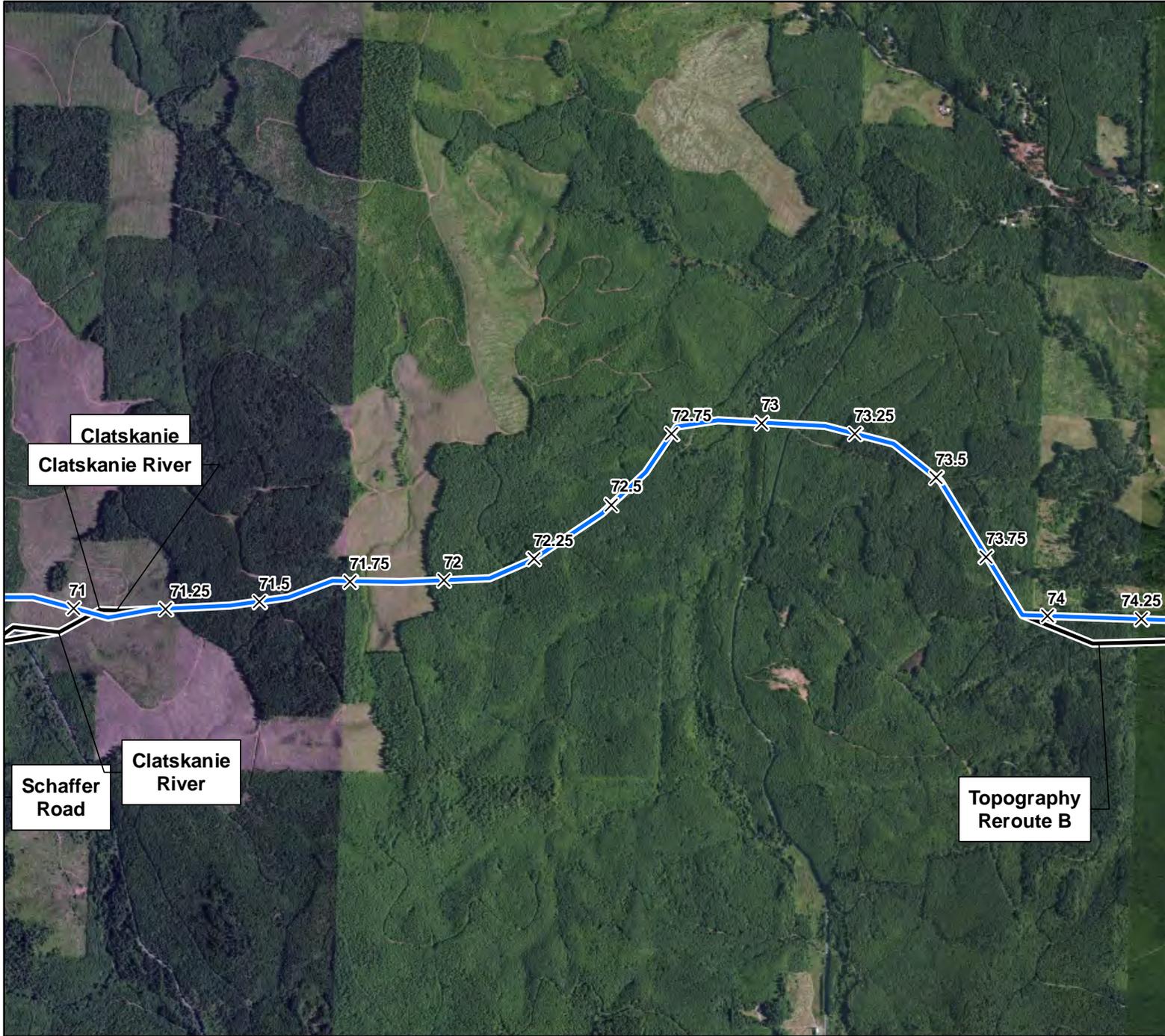


Figure 25
Proposed and Minor
Alternative Pipeline
Route Variations

Legend

- ✕ Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline

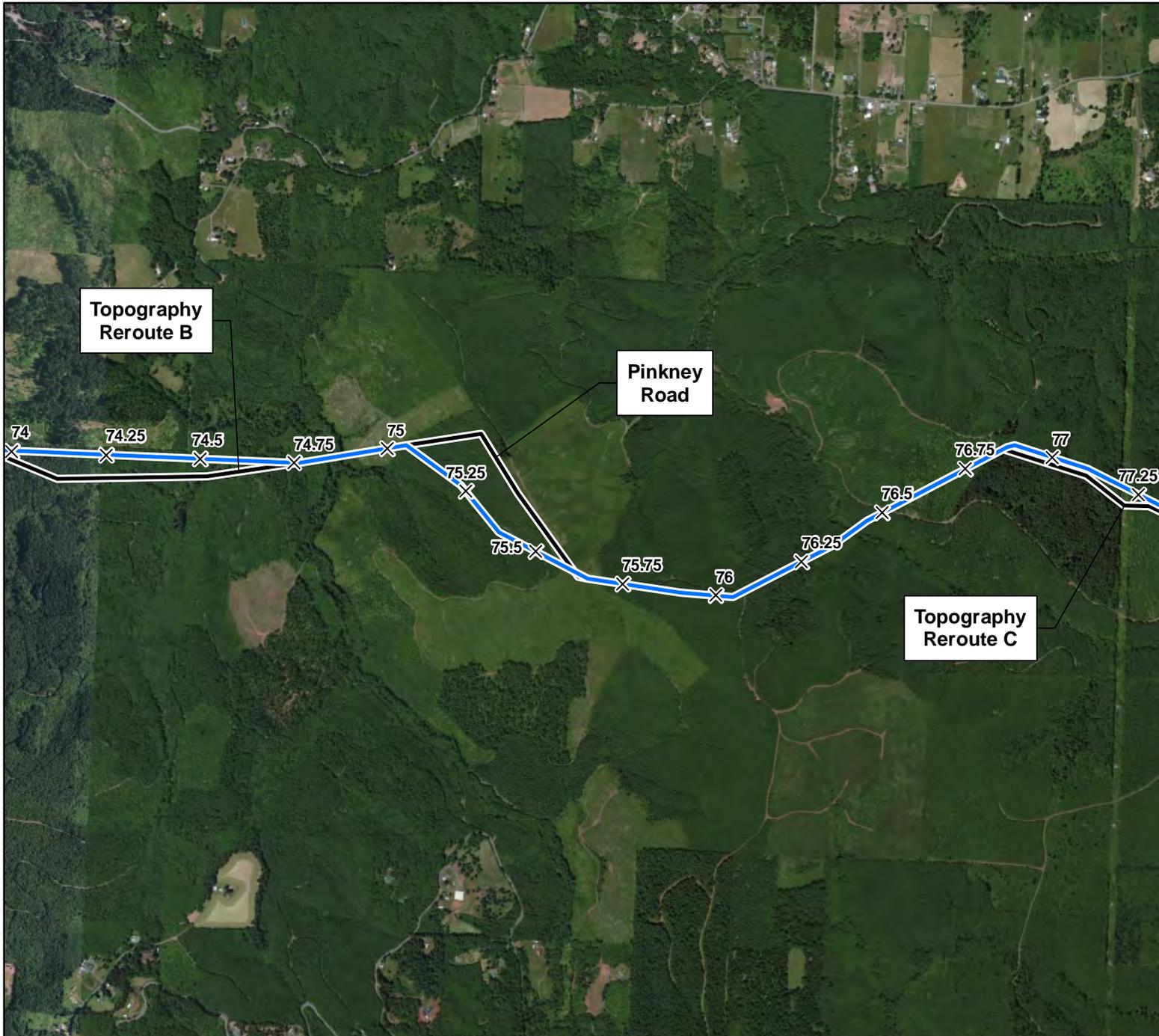
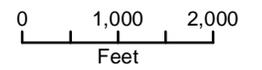
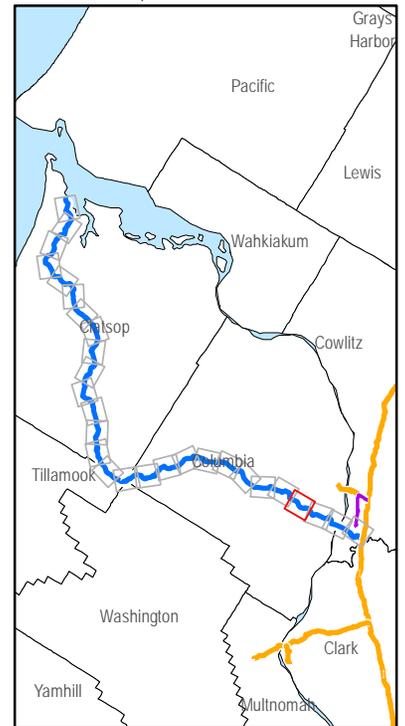
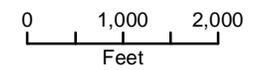
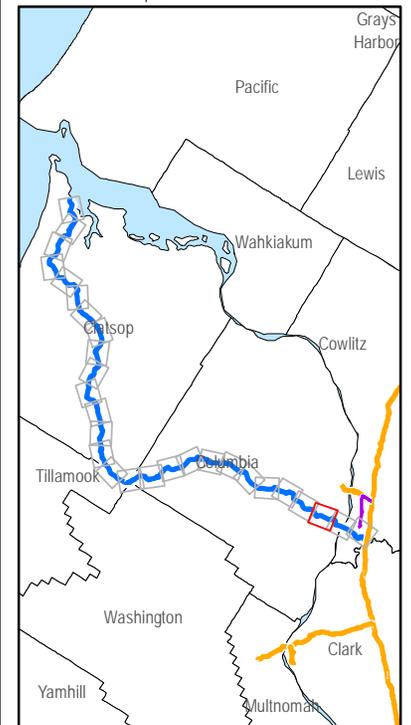


Figure 26
Proposed and Minor
Alternative Pipeline
Route Variations



Legend

- X Pipeline Route Milepost (Qtr Mile)
- ▲ Northwest Pipeline Interconnect
- ▲ Alternative Interconnect
- Pipeline Route
- Variation Not Selected
- Deer Island Route Variation
- Green Mountain Route Variation
- Northwest Pipeline



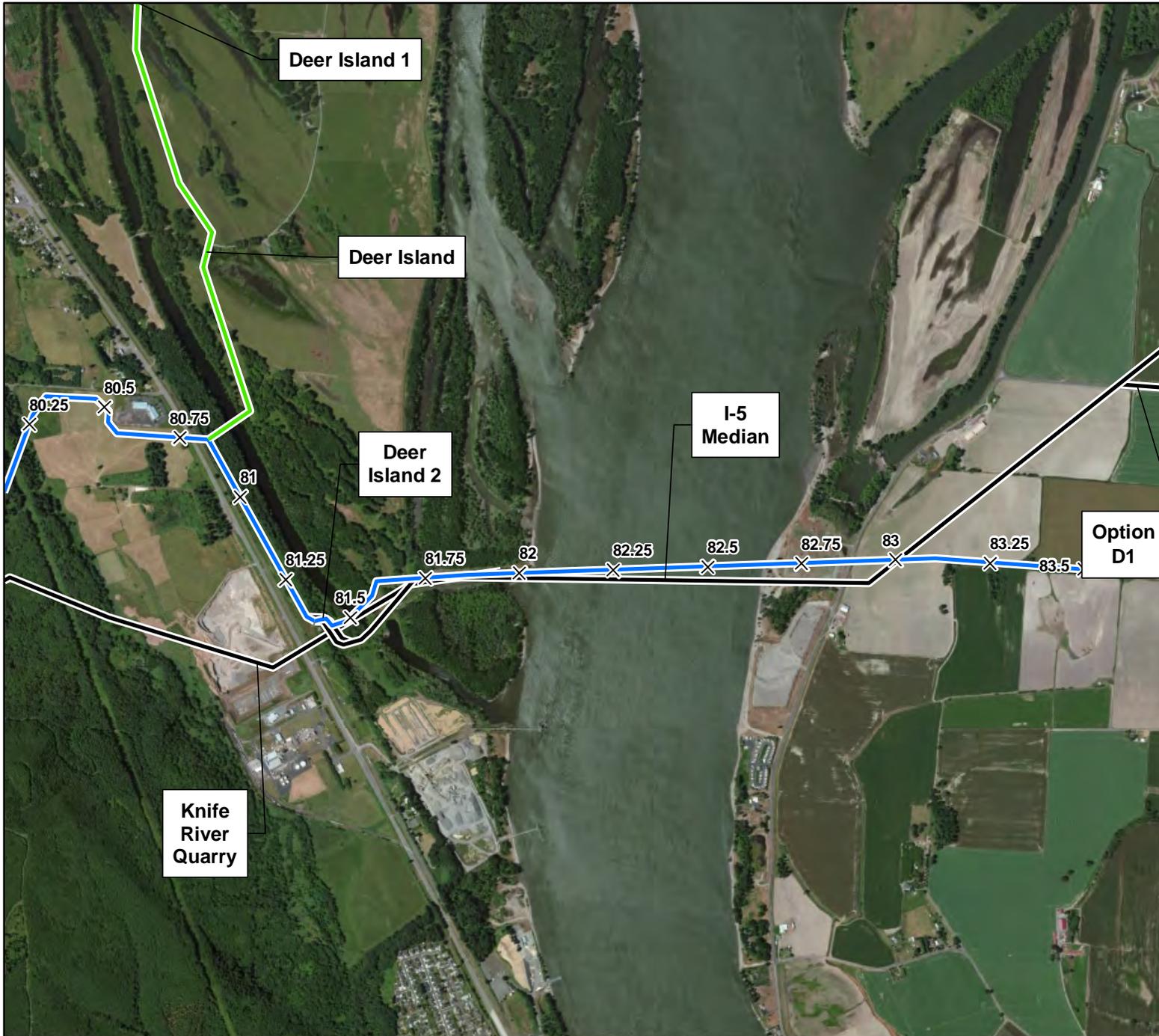
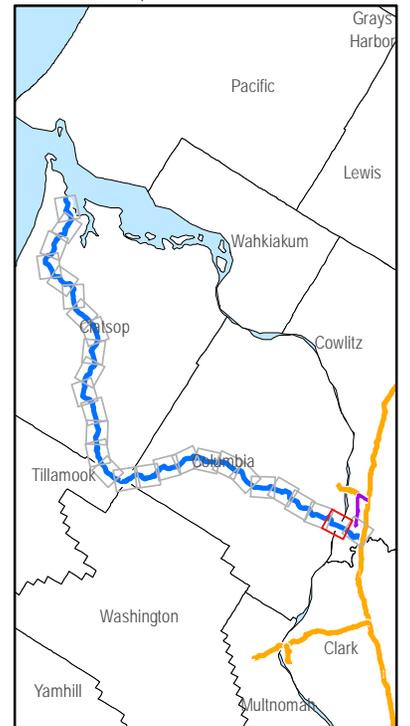


Figure 27
Proposed and Minor
Alternative Pipeline
Route Variations

- Legend**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - ▲ Northwest Pipeline Interconnect
 - ▲ Alternative Interconnect
 - Pipeline Route
 - Variation Not Selected
 - Deer Island Route Variation
 - Green Mountain Route Variation
 - Northwest Pipeline



0 1,000 2,000
Feet



APPENDIX E4

ADDITIONAL TEMPORARY WORKSPACE FOR THE PIPELINE; ADDITIONAL TEMPORARY WORKSPACES WITHIN 50 FEET OF WETLANDS AND WATERBODIES

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	0.1	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 100	0.02	OS
					0.10	PEM
Clatsop	0.2	Point of Intersection	Additional Spoils Area	407 x 123	1.12	EW
					0.03	OS
Clatsop	0.6	Slough/Waterbody	Additional Spoil Area/Staging Area	175 x 50	0.20	EW
Clatsop	0.6	Slough/Waterbody	Additional Spoil Area/Staging Area	175 x 100	0.41	EW
Clatsop	0.8	Highway 101 Crossing	Additional Spoil Area/Staging Area	512 x 50	0.56	EW
Clatsop	0.8	Highway 101 Crossing	Additional Spoil Area/Staging Area	373 x 117	0.74	EW
Clatsop	0.8	Highway 101 Crossing	Additional Spoil Area/Staging Area	85 x 50	0.07	EW
					0.03	OS
Clatsop	1.1	Slough/Waterbody	Additional Spoil Area/Staging Area	535 x 180	1.73	EW
Clatsop	1.5	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 200	0.23	AW
Clatsop	1.7	Airport Road	Bore Pit and Equipment	50 x 175	0.10	AW
Clatsop	1.7	Airport Road	Bore Pit and Equipment	50 x 175	0.08	AW
Clatsop	1.7	Airport Road	Bore Pit and Equipment	50 x 175	0.20	AW
Clatsop	1.7	Airport Road	Bore Pit and Equipment	50 x 175	0.21	AW
Clatsop	1.8	Point of Intersection	Additional Spoils Area	50 x 100	0.17	UF
Clatsop	2.3	Clatsop Airport Road	Bore Pit and Equipment	50 x 150	0.17	ROW
					0.03	PSS
					0.51	PEM
Clatsop	2.4	Clatsop Airport Road	Bore Pit and Equipment	50 x 425	0.01	PSS
					0.03	OS
					.02	AG
Clatsop	2.4	Clatsop Airport Road	Bore Pit and Equipment	50 x 200	.02	PEM
					0.19	PSS
					0.02	ROW
Clatsop	2.4	Clatsop Airport Road	Bore Pit and Equipment	50 x 175	0.12	PSS
					0.09	PEM
Clatsop	2.8	Lewis and Clark River	HDD Equipment Pad	125 x 300	0.21	UF
					0.76	PSS
Clatsop	3.4	Lewis and Clark River	HDD Equipment Pad/Pullback	150 x 300	0.95	AW
Clatsop	3.7	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 500	0.57	AW
Clatsop	4.0	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 770	0.88	AW
Clatsop	4.1	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 400	0.46	AW

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	4.2	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 350	0.32	AW
					0.08	PEM
Clatsop	4.4	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 1100	1.27	PEM
Clatsop	4.6	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 125	0.14	PEM
Clatsop	4.6	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 175	0.20	AW
Clatsop	4.7	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 150	0.17	AW
Clatsop	4.8	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 250	0.29	AW
Clatsop	4.9	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 325	0.37	AW
Clatsop	5.0	Lewis and Clark River Bank	HDD Equipment Pad	80 x 300	0.55	AW
Clatsop	5.4	Lewis and Clark River	HDD Pullback	75 x 410	0.70	AW
Clatsop	5.5	Lewis and Clark River Bank	HDD Equipment Pad/Pullback/ Additional Spoil Area/Staging Area	50 x 325 & 75 x 1300	2.50	AW
Clatsop	5.5	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 225	0.27	AW
Clatsop	5.5	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 320	0.37	AW
Clatsop	5.6	Slough/Waterbody	Additional Spoil Area/Staging Area	50 x 200	0.23	AW
Clatsop	5.6	Lewis and Clark River	HDD Equipment Pad	80 x 250	0.46	AW
Clatsop	6	Lewis and Clark River	HDD Equipment Pad	80 x 300	0.55	OS
Clatsop	6.1	Point of Intersection	Additional Spoil Area	50 x 300	0.36	OS
Clatsop	6.2	Point of Intersection	Additional Spoil Area	50 x 175	0.20	OS
Clatsop	6.3	Point of Intersection	Additional Spoil Area	50 x 175	0.05	IF
					0.10	AG
					0.05	PEM
Clatsop	6.3	Point of Intersection	Additional Spoil Area	50 x 175	0.20	PEM
Clatsop	6.8	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	6.9	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	7.6	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	7.8	Wetland	Additional Spoil Area	50 x 150	0.17	IF
Clatsop	8.0	Wetland	Additional Spoil Area	50 x 250	0.29	IF
Clatsop	8.2	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 700	0.79	IF
Clatsop	8.7	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	8.9	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	9.3	Point of Intersection	Additional Spoil Area	50 x 100	0.15	IF
Clatsop	9.6	Point of Intersection	Additional Spoil Area	50 x 100	0.15	IF
Clatsop	9.9	Stream	Additional Spoil Area/Staging Area	50 x 60	0.07	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	10.0	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	10.0	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	10.1	Wetland	Additional Spoil Area	50 x 500	0.59	IF
Clatsop	10.3	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	10.7	Point of Intersection	Additional Spoil Area	50 x 100	0.15	IF
Clatsop	10.9	Lewis and Clark River	HDD Equipment Pad	80 x 300	0.63	PEM
					0.01	ROW
Clatsop	11.2	Lewis and Clark River	HDD Equipment Pad	80 x 300	0.33	AG
					0.01	IF
					0.02	RE
					0.32	UF
Clatsop	12.2	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	12.4	Wetland	Additional Spoil Area	50 x 205	0.24	IF
Clatsop	12.5	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 385	0.44	IF
Clatsop	12.6	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 110	0.13	IF
Clatsop	12.7	Stream	Additional Spoil Area/Staging Area	50 x 400	0.48	IF
Clatsop	12.8	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	13.1	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	13.3	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	13.6	Point of Intersection	Additional Spoil Area	50 x 260	0.26	IF
Clatsop	13.8	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	13.8	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	14.0	Point of Intersection	Additional Spoil Area	50 x 100	0.13	IF
Clatsop	14.1	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	14.1	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	14.2	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	14.2	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	14.3	Point of Intersection	Additional Spoil Area	50 x 100	0.12	IF
Clatsop	14.8	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	15.2	Steep Terrain/Stream	Additional Spoil Area/Staging Area	50 x 600	0.75	IF
Clatsop	15.4	Steep Terrain/Stream	Additional Spoil Area/Staging Area	50 x 335	0.35	IF
Clatsop	15.5	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	15.6	Stream	Additional Spoil Area/Staging Area	50 x 150	0.16	IF
Clatsop	15.7	Stream	Additional Spoil Area/Staging Area	50 x 150	0.17	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	15.8	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	16.0	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.36	IF
Clatsop	16.2	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 150	0.17	IF
Clatsop	16.4	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	16.9	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	17.3	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	17.3	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	17.4	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	17.4	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	17.6	Point of Intersection	Additional Spoil Area	50 x 100	0.13	IF
Clatsop	17.9	Stream	Additional Spoil Area/Staging Area	50 x 160	0.19	IF
Clatsop	18.2	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	18.3	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	18.3	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 175	0.20	IF
Clatsop	18.4	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 315	0.36	IF
Clatsop	18.4	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	18.6	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 150	0.17	IF
Clatsop	18.7	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	18.9	Point of Intersection	Additional Spoil Area	50 x 150	0.04	IF
					0.14	UF
Clatsop	18.9	Point of Intersection	Additional Spoil Area	50 X 90	0.10	UF
Clatsop	19.0	Wetland	Additional Spoil Area/Staging Area	50 x 80	0.04	ROW
Clatsop	19.1	Wetland	Additional Spoil Area/Staging Area	50 x 100 & 50 x 150	0.25	UP
Clatsop	19.2	Point of Intersection/Wetland	Additional Spoil Area	50 x 75 & 50 x 350	0.10	IF
					0.37	UP
					0.04	ROW
Clatsop	19.4	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 110 & 50 x 220	0.02	PEM
					0.31	IF
Clatsop	19.5	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 600	0.70	IF
Clatsop	19.6	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	19.8	Wetland	Additional Spoil Area	50 x 200	0.23	IF
Clatsop	19.8	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	20.0	Stream	Additional Spoil Area/Staging Area	50 x 300	0.35	IF
Clatsop	20.0	Stream	Additional Spoil Area/Staging Area	50 x 100	0.12	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	20.1	Stream	Additional Spoil Area/Staging Area	50 x 310	0.36	IF
Clatsop	20.2	Stream	Additional Spoil Area/Staging Area	50 x 310	0.36	IF
Clatsop	20.7	Point of Intersection	Additional Spoil Area	50 x 100	0.12	IF
Clatsop	20.8	Point of Intersection	Additional Spoil Area	50 x 100	0.12	IF
Clatsop	21.3	Stream	Additional Spoil Area/Staging Area	50 x 200	0.22	IF
Clatsop	21.5	Stream	Additional Spoil Area/Staging Area	50 x 175	0.20	IF
Clatsop	21.7	Steep Terrain	Additional Spoil Area	50 x 800	0.94	IF
Clatsop	21.9	Steep Terrain	Additional Spoil Area	50 x 390	0.44	IF
Clatsop	21.9	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 320	0.35	IF
Clatsop	22.1	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	22.2	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	22.3	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 340	0.37	IF
Clatsop	22.5	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 550	0.63	IF
Clatsop	23.0	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	23.0	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	23.4	Stream/Riparian Area	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	23.5	Stream/Riparian Area	Additional Spoil Area/Staging Area	50 x 200	0.26	IF
Clatsop	24.3	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	24.4	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 150	0.20	IF
Clatsop	24.5	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 150	0.20	IF
Clatsop	24.7	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	24.9	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 220	0.25	IF
Clatsop	25.0	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 480	0.52	IF
Clatsop	25.2	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 125	0.15	IF
Clatsop	25.3	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 225	0.27	IF
Clatsop	25.3	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 175	0.22	IF
Clatsop	25.4	Stream	Additional Spoil Area/Staging Area	50 x 125	0.15	IF
Clatsop	25.4	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	25.5	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	25.6	Point of Intersection	Additional Spoil Area	50 x 100	0.13	IF
Clatsop	25.6	Stream	Additional Spoil Area/Staging Area	50 x 240	0.29	IF
Clatsop	25.6	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	25.8	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	26	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	26.1	Point of Intersection	Additional Spoil Area	50 x 125	0.16	IF
Clatsop	26.2	Point of Intersection	Additional Spoil Area	50 x 125	0.15	IF
Clatsop	26.3	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	26.3	Stream	Additional Spoil Area/Staging Area	50 x 95	0.11	IF
Clatsop	26.4	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	26.5	Steep	Additional Spoil Area/Staging Area	50 x 580	0.68	IF
Clatsop	26.7	Stream	Additional Spoil Area/Staging Area	50 x 120	0.15	IF
Clatsop	26.7	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 700	0.82	IF
Clatsop	26.9	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	26.9	Stream	Additional Spoil Area/Staging Area	50 x 200	0.23	IF
Clatsop	27.1	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	27.2	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	27.3	Stream	Additional Spoil Area/Staging Area	50 x 170	0.19	IF
Clatsop	27.4	Stream	Additional Spoil Area/Staging Area	50 x 220	0.25	IF
Clatsop	27.9	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	28.1	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	28.1	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	28.3	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	28.7	Point of Intersection	Additional Spoil Area	50 x 100	0.15	IF
Clatsop	29	Point of Intersection	Additional Spoil Area	50 x 100	0.13	IF
Clatsop	29.4	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 140	0.18	IF
Clatsop	29.6	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	29.6	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	29.6	Point of Intersection	Additional Spoil Area	50 x 100	0.13	IF
Clatsop	30.1	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	30.1	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	30.5	Point of Intersection	Additional Spoil Area	50 x 100	0.13	IF
Clatsop	30.8	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	31.3	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 420	0.48	IF
Clatsop	31.4	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 320	0.38	IF
Clatsop	31.4	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	31.6	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 450	0.40	IF
Clatsop	31.7	Point of Intersection/Stream	Additional Spoil Area/Staging Area	50 x 375	0.43	IF
Clatsop	32.9	Point of Intersection	Additional Spoil Area	50 x 125	0.16	IF
Clatsop	33.3	Nehalem River	HDD Equipment Pad	80 x 300	0.66	UF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	33.7	Nehalem River	HDD Equipment Pad/Pullback	80 x 300 & 75 x 625	1.85	AG
Clatsop	33.9	Point of Intersection	Additional Spoil Area/Staging Area	50 x 100	0.05	AG
					0.16	AW
Clatsop	33.9	Point of Intersection	Additional Spoil Area/Staging Area	50 x 100	0.11	AG
					0.10	AW
Clatsop	34.0	Point of Intersection	Additional Spoil Area/Staging Area	50 x 100	0.21	AW
					0.01	ROW
Clatsop	34.0	Point of Intersection	Additional Spoil Area/Staging Area	50 x 100	0.08	AG
					0.11	AW
					0.02	ROW
Clatsop	34.4	Stream	Additional Spoil Area/Staging Area	50 x 150	0.17	UF
Clatsop	34.5	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 100	0.14	UF
Clatsop	35.2	Point of Intersection	Additional Spoil Area	50 x 110	0.13	UF
Clatsop	35.2	Point of Intersection	Additional Spoil Area	50 x 125	0.14	UF
Clatsop	35.3	Point of Intersection	Additional Spoil Area	50 x 110	0.13	UF
Clatsop	36.3	Wetland	Additional Spoil Area	50 x 150	0.03	PSS
					0.14	UF
Clatsop	36.4	Wetland	Additional Spoil Area/Staging Area	50 x 150	0.11	PSS
					0.06	UF
Clatsop	36.9	Steep Terrain/Wetland	Additional Spoil Area	50 x 100	0.03	PSS
					0.09	UF
Clatsop	37.1	Wetland	Additional Spoil Area	50 x 300	0.34	UF
Clatsop	37.4	Steep Terrain/Point of Intersection	Additional Spoil Area	50 x 1325	1.50	UF
Clatsop	37.4	Stream	Additional Spoil Area/Staging Area	50 x 300	0.33	UF
Clatsop	37.6	Stream	Additional Spoil Area/Staging Area	50 x 100	0.12	PEM
					0.02	IF
Clatsop	37.8	Steep Terrain	Additional Spoil Area	50 x 1460	1.67	IF
Clatsop	38.3	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	38.4	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 200	0.26	IF
Clatsop	38.6	Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	IF
Clatsop	39.2	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	39.4	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	39.4	Point of Intersection	Additional Spoil Area	50 x 100	0.14	IF
Clatsop	39.7	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	40.1	Steep Terrain/Point of Intersection	Additional Staging Area	50 x 2500	2.59	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Clatsop	40.5	Point of Intersection	Additional Spoil Area/Staging Area	50 x 1500	1.88	UF
Clatsop	40.8	Point of Intersection	Additional Spoil Area	50 x 100	0.14	UF
Clatsop	40.9	Steep Terrain	Additional Spoil Area	150 x 175	0.68	IF
					0.001	PSS
Clatsop	40.9	Steep Terrain	Additional Spoil Area	50 x 100	0.12	IF
Clatsop	41.3	Highway 26 Crossing	HDD Exit	50 x 400	0.47	UF
Clatsop	41.4	Highway 26 Crossing	HDD Pullback	80 x 1850	3.46	UF
Clatsop	41.5	Wetland	Additional Spoil Area	50 x 260	0.30	UF
Clatsop	41.6	Wetland	Additional Spoil Area	50 x 500	0.57	UF
Clatsop	41.8	Wetland	Additional Spoil Area	50 x 300	0.36	IF
Clatsop	41.9	Wetland	Additional Spoil Area	50 x 300	0.34	IF
Clatsop	42.2	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 425	0.48	IF
Clatsop	42.2	Point of Intersection/Wetland	Additional Spoil Area/Staging Area	50 x 100	0.13	IF
Clatsop	42.4	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 150	0.17	IF
Clatsop	42.4	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 150	0.17	IF
Clatsop	42.6	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	42.7	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	IF
Clatsop	43.1	Point of Intersection	Additional Spoil Area/Staging Area	100 x 300	0.92	IF
Clatsop	43.6	Hwy 26	HDD Equipment Pad	80 x 300	0.63	UF
Clatsop	43.7	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	UF
Clatsop	43.8	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	UF
Clatsop	44	Point of Intersection	Additional Spoil Area	50 x 100	0.12	UF
Tillamook	44.1	Wetland/Stream	Additional Spoil Area/Staging Area	50 x 300	0.34	UF
Tillamook	44.2	Point of Intersection	Additional Spoil Area	50 x 100	0.12	UF
Tillamook	44.5	Point of Intersection	Additional Spoil Area	50 x 100	0.13	UF
Tillamook	44.7	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	UF
Tillamook	44.8	Stream	Additional Spoil Area/Staging Area	50 x 100	0.11	UF
Tillamook	45.6	Wetland	Additional Spoil Area	50 x 200	0.23	UF
Tillamook	45.7	Point of Intersection	Additional Spoil Area	50 x 100	0.14	UF
Tillamook	45.8	Point of Intersection	Additional Spoil Area	50 x 100	0.04	IF
					0.09	UF
Tillamook	46.4	Point of Intersection	Additional Spoil Area	50 x 100	0.11	UF
Tillamook	46.7	Point of Intersection	Additional Spoil Area	50 x 100	0.12	UF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Tillamook	47.3	Wetland	Additional Spoil Area	100 X 50	0.11	UF
Columbia	47.7	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	47.9	Steep Terrain	Additional Cut/Fill Area	100 x 50	0.11	IF
Columbia	48.0	Steep Terrain	Additional Cut/Fill Area	100 x 50	0.10	IF
Columbia	48.2	Point of Intersection/Road Crossing	Additional Spoil Area/Staging Area	350 x 50 & 200 x 50	0.59	IF
Columbia	48.3	Steep Terrain/Wetland	Additional Cut/Fill Area	200 x 50	0.23	IF
Columbia	48.9	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	49.1	Steep Terrain	Additional Spoil Area	400 x 50	0.46	IF
Columbia	49.2	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	49.4	Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.11	IF
Columbia	49.5	Steep Terrain	Additional Cut/Fill Area	450 x 50	0.52	IF
Columbia	49.7	Steep Terrain	Additional Cut/Fill Area	900 x 50	1.03	IF
Columbia	49.9	Point of Intersection	Additional Spoil Area	100 x 50	0.08	IF
Columbia	50.1	POI/Steep Terrain	Additional Cut/Fill Area	1100 x 50	1.28	IF
Columbia	50.3	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	50.4	Point of Intersection	Additional Spoil Area	140 x 50	0.14	IF
Columbia	50.4	Point of Intersection	Additional Spoil Area	100 X 50	0.11	IF
Columbia	50.5	Stream Crossing	Additional Spoil Area/Staging Area	100 x 50	0.09	IF
Columbia	50.6	Wetland	Additional Spoil Area/Staging Area	100 x 50	0.10	IF
Columbia	50.8	Steep Terrain/Wetland	Additional Cut/Fill Area	100 x 50	0.08	IF
Columbia	50.9	Point of Intersection	Additional Spoil Area	150 x 50	0.20	IF
Columbia	51.6	Stream Crossing	Additional Spoil Area/Staging Area	1400 x 50	1.61	IF
Columbia	51.8	Steep Terrain	Additional Cut/Fill Area	100 x 50	0.09	IF
Columbia	51.9	Point of Intersection	Additional Spoil Area	800 x 50	0.92	IF
Columbia	51.9	Point of Intersection	Additional Spoil Area	100 x 50	0.13	IF
Columbia	52.1	Steep Terrain	Additional Cut/Fill Area	800 x 50	0.90	IF
Columbia	52.7	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	52.9	Steep Terrain	Additional Cut/Fill Area	800 x 50	0.92	IF
Columbia	53.1	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	53.3	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	53.4	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	53.5	Steep Terrain	Additional Cut/Fill Area	500 x 50	0.57	IF
Columbia	53.6	Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.12	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Columbia	53.6	Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.12	IF
Columbia	53.8	Steep Terrain	Additional Cut/Fill Area	1480 x 50	1.71	IF
Columbia	54.3	Steep Terrain	Additional Cut/Fill Area	1200 x 50	1.40	IF
Columbia	55.4	Wetland	Additional Spoil Area	100 x 50	0.12	IF
Columbia	55.4	Wetland	Additional Spoil Area	100 x 50	0.12	IF
Columbia	55.7	Wetland	Additional Spoil Area	100 x 50	0.06	IF
					0.06	PEM
Columbia	55.8	Wetland	Additional Spoil Area	100 x 50	0.11	IF
					0.01	PEM
Columbia	55.9	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.14	IF
Columbia	55.9	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.14	IF
Columbia	56.6	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.10	IF
Columbia	57.1	Rock Creek	HDD Pullback	775 x 75	1.29	IF
Columbia	57.3	Rock Creek	HDD Pullback	1926 x 75	3.43	IF
Columbia	57.4	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	57.5	Steep Terrain	Additional Cut/Fill Area	300 x 80	0.55	IF
Columbia	58.1	Rock creek	HDD Entry	300 x 80	0.55	IF
Columbia	58.4	Steep Terrain	Additional Cut/Fill Area	1045 x 50	1.19	IF
Columbia	58.5	Point of Intersection	Additional Spoil Area	100 x 50	0.18	IF
Columbia	58.7	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	58.8	Point of Intersection	Additional Spoil Area	100 x 50	0.13	IF
Columbia	59.0	Point of Intersection	Additional Spoil Area	100 x 50	0.15	IF
Columbia	59.1	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	59.2	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	59.9	Point of Intersection	Additional Spoil Area	100 x 50	0.09	IF
Columbia	60.1	Point of Intersection	Additional Spoil Area	100 x 50	0.13	IF
Columbia	60.4	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	61.3	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	61.7	Steep Terrain/Road Crossing	Additional Cut/Fill Area	100 x 50	0.13	IF
Columbia	61.7	Stream Crossing/Road Crossing	Additional Cut/Fill Area	600 x 500	0.13	IF
Columbia	62.1	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	62.2	Steep Terrain/Road Crossing	Additional Cut/Fill Area	1000 x 50	1.15	IF
Columbia	62.3	Steep Terrain/Road Crossing	Additional Cut/Fill Area	950 x 50	1.09	IF
Columbia	62.4	Steep Terrain	Additional Cut/Fill Area	250 x 170	0.57	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Columbia	62.7	Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.11	IF
Columbia	62.8	Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.11	IF
Columbia	63.0	Point of Intersection	Additional Spoil Area	100 x 50	0.09	IF
Columbia	63.1	Steep Terrain	Additional Cut/Fill Area	350 x 120	0.96	IF
Columbia	63.6	Nehalem River Crossing	HDD Entry/Equipment Pad	300 x 80	0.32	IF
					0.23	PEM
Columbia	64.3	Nehalem River Crossing	HDD Exit/Equipment Pad	300 x 80	0.55	IF
Columbia	64.3	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	64.7	Nehalem River Crossing	HDD Pullback	2470 x 75	4.56	IF
Columbia	64.8	Point of Intersection	Additional Spoil Area	100 x 50	0.13	IF
Columbia	64.9	Steep Terrain	Additional Cut/Fill Area	100 x 50	0.12	IF
Columbia	65.2	Steep Terrain	Additional Cut/Fill Area	708 x 50	0.83	IF
Columbia	65.6	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	65.7	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	66.5	Steep Terrain	Additional Cut/Fill Area	520 x 50	0.61	IF
Columbia	67.2	Steep Terrain	Additional Cut/Fill Area	670 x 50	0.77	IF
Columbia	68.0	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	68.3	POI/Steep Terrain	Additional Cut/Fill Area	250 x 50	0.31	IF
Columbia	68.7	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	69.5	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	69.7	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	70.4	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	70.6	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	70.6	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	70.7	Wetland	Additional Spoil Area	100 x 50	0.12	IF
Columbia	70.7	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	70.7	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	70.9	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	71.1	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	71.6	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.12	IF
Columbia	71.7	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	72.1	Point of Intersection	Additional Spoil Area	100 x 50	0.13	IF
Columbia	72.8	Point of Intersection	Additional Spoil Area	100 x 50	0.09	IF

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
Columbia	72.9	Road/Stream crossing	Additional Spoil Area/Staging Area	565 x 50	0.42	IF
					0.10	PFO
Columbia	73.4	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	73.5	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	73.9	Point of Intersection	Additional Spoil Area	100 x 50	0.15	IF
Columbia	74.8	Stream Crossing	Additional Spoil Area/Staging Area	100 x 50	0.11	IF
Columbia	75.1	Point of Intersection	Additional Spoil Area	100 x 50	0.09	IF
Columbia	75.7	Point of Intersection	Additional Spoil Area	100 x 50	0.12	IF
Columbia	76.0	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	76.3	Stream	Additional Spoil Area/Staging Area	1075 x 50	1.24	IF
Columbia	76.9	Point of Intersection	Additional Spoil Area	260 x 50	0.28	IF
Columbia	77.9	Point of Intersection	Additional Spoil Area	100 x 50	0.14	IF
Columbia	78.0	Point of Intersection	Additional Spoil Area	100 x 50	0.11	IF
Columbia	78.1	Point of Intersection	Additional Spoil Area	100 x 50	0.15	IF
Columbia	78.4	POI/Stream crossing	Additional Spoil Area/Staging Area	100 x 50	0.09	IF
Columbia	78.6	Point of Intersection	Additional Spoil Area	100 x 50	0.10	IF
Columbia	78.8	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.12	IF
Columbia	78.9	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.11	IF
Columbia	79.2	Wetland	Additional Spoil Area	100 x 50	0.11	IF
Columbia	79.8	Steep Terrain	Additional Cut/Fill Area	535 x 50	0.61	IF
Columbia	80.1	Point of Intersection	Additional Spoil Area	100 x 50	0.14	IF
Columbia	80.3	Point of Intersection	Additional Spoil Area	100 x 50	0.08	CI
Columbia	80.5	Point of Intersection	Additional Spoil Area	100 x 50	0.09	CI
Columbia	80.5	Point of Intersection	Additional Spoil Area	100 x 50	0.09	CI
Columbia	80.6	Point of Intersection	Additional Spoil Area	100 x 50	0.09	CI
Columbia	80.6	Compressor Station	Additional Staging Area	198 x 50	0.27	CI
Columbia	80.6	Compressor Station	Additional Staging Area	100 x 50	0.09	CI
Columbia	81.2	Columbia River Crossing	HDD Equipment Pad/Staging Area	3575 x 50	0.37	OS
					3.06	UF
Columbia	81.4	Columbia River Crossing	Additional Staging Area	50 x 100	0.15	FW
					0.003	UF
Columbia	81.5	Columbia River Crossing	Additional Staging Area	50 x 170	0.20	FW
					0.01	OS
Columbia	81.6	Columbia River Crossing	Additional Staging Area	50 x 856	0.56	EW

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
					0.43	FW
					0.02	OS
Columbia	81.6	Columbia River Crossing	Additional Staging Area	50 x 170	0.20	EW
					0.01	FW
Columbia	81.7	Columbia River Crossing	Additional Staging Area	50 x 138	0.06	EW
					0.10	FW
Columbia	81.7	Columbia River Crossing	Additional Staging Area	150 x 50	0.01	ROW
					0.09	EW
					0.07	FW
Columbia	81.8	Columbia River Crossing	Additional Staging Area	80 x 305	0.07	ROW
					0.50	FW
Cowlitz	82.8	Columbia River Crossing	Additional Staging Area	350 x 80	0.62	PEM
Cowlitz	82.8	Columbia River Crossing	Additional Staging Area	50 x 200	0.22	PEM
Cowlitz	82.9	Columbia River Crossing	Additional Staging Area	50 x 185	0.22	AG
Cowlitz	82.9	Columbia River Crossing	Additional Staging Area	200 x 50	0.22	AG
Cowlitz	83.2	Columbia River Crossing	Additional Spoil Area/Staging Area	200 x 50	0.23	PEM
Cowlitz	83.4	Columbia River Crossing	Additional Spoil Area/Staging Area	200 x 50	0.23	PEM
Cowlitz	84.2	POI/Road Crossing	Additional Spoil Area/Staging Area	50 x 175	0.20	AG
Cowlitz	84.3	POI/Road Crossing	Additional Spoil Area/Staging Area	50 x 175	0.20	AG
Cowlitz	84.3	Point of Intersection	Additional Staging Area	100 x 50	0.11	AG
Cowlitz	84.6	Point of Intersection	Additional Staging Area	50 x 100	0.17	AG
Cowlitz	84.8	Point of Intersection	Additional Staging Area	50 x 175	0.26	AG
Cowlitz	85.1	Point of Intersection	Additional Spoil Area	50 x 200	0.17	AG
Cowlitz	85.1	Point of Intersection	Additional Spoil Area	50 x 260	0.19	OS
					0.07	ROW
Cowlitz	85.1	Point of Intersection	Additional Spoil Area	50 x 360	0.40	AG
					0.10	ROW
Cowlitz	85.3	Point of Intersection	Additional Spoil Area	23 x 100	0.06	OS
Cowlitz	85.4	Point of Intersection	Additional Spoil Area	100 x 50	0.11	AG
Cowlitz	85.6	Point of Intersection	Additional Spoil Area	100 x 50	0.15	AG
Cowlitz	85.7	I-5	Additional Spoil Area/Staging Area	175 x 50	0.12	PEM
					0.09	OS
Cowlitz	85.7	I-5	Additional Spoil Area/Staging Area	50 x 175	0.16	PEM
					0.03	OS
Cowlitz	85.9	POI/Road Crossing	Additional Spoil Area/Staging Area	175 x 50	0.10	PEM

Table E4-1

Additional Temporary Workspace for Oregon LNG Pipeline

County	Milepost	Crossing	Description	Dimensions (feet)	Acreage	Land Use Within Additional Temporary Workspace
					0.10	RE
Cowlitz	85.9	POI/Road Crossing	Additional Spoil Area/Staging Area	50 x 143	0.20	RE
Cowlitz	86.0	POI/Road Crossing	Additional Spoil Area/Staging Area	100 x 50	0.11	UF
Cowlitz	86.1	Point of Intersection	Additional Spoil Area	50 x 175	0.26	OS
Cowlitz	86.2	Point of Intersection	Additional Spoil Area	50 x 200	0.17	OS
Cowlitz	86.4	Point of Intersection	Additional Spoil Area	50 x 200	0.18	OS
Cowlitz	86.4	Point of Intersection	Additional Spoil Area	50 x 110	0.17	OS
Cowlitz	86.5	Point of Intersection	Additional Spoil Area	50 x 112	0.01	PEM
					0.15	OS
Total for Additional Temporary Workspaces					138.90	
Abbreviations of Land Use Classifications						
AG = Agriculture						
AW = Agricultural Wetland						
CI = Commercial/Industrial						
EW = Estuarine Wetland						
FW = Forested Wetland						
IF = Industrial Forest						
OS = Open Space						
PEM = Palustrine Emergent Wetlands						
PFO = Palustrine Forested Wetlands						
PSS = Palustrine Scrub-Shrub Wetlands						
RE = Residential						
ROW = Right-of-Way						
UF = Upland Forest						
Precision loss may occur because of rounding.						

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
0.1	Clatsop	Slough/Waterbody	50 x 100	W5BCL020	OS, EM	9.5	Additional Spoil Area/Staging Area	0.12
				W5BCL058		0		
0.2	Clatsop	Point of Intersection	407 x 123	W5BCL021	EW, OS	0	Additional Spoils Area	1.24
				W5BCL052		0		
0.6	Clatsop	Slough/Waterbody	175 x 50	W99CL0021	EW	0	Additional Spoil Area/Staging Area	0.20
0.6	Clatsop	Slough/Waterbody	175 x 100	W99CL0021	EW	0	Additional Spoil Area/Staging Area	0.41
0.8	Clatsop	Highway 101 Crossing	512 x 50	W99CL0021	EW	0	Additional Spoil Area/Staging Area	0.56
0.8	Clatsop	Highway 101 Crossing	373 x 117	W99CL0021	EW	0	Additional Spoil Area/Staging Area	0.74
0.8	Clatsop	Highway 101 Crossing	50 x 85	W99CL0021	EW, OS	0	Additional Spoil Area/Staging Area	0.10
1.1	Clatsop	Slough/Waterbody	535 x 180	W99CL0021A	EW	0	Additional Spoil Area/Staging Area	1.73
1.5	Clatsop	Slough/Waterbody	50 x 200	W5BCL015O	AW	0	Additional Spoil Area/Staging Area	0.23
1.7	Clatsop	Airport Road	50 x 175	W5BCL015O	AW	0	Bore Pit and Equipment	0.10
1.7	Clatsop	Airport Road	50 x 175	W5BCL015O	AW	0	Bore Pit and Equipment	0.08
1.7	Clatsop	Airport Road	50 x 175	W5BCL015O	AW	0	Bore Pit and Equipment	0.20
1.7	Clatsop	Airport Road	50 x 175	W5BCL060	AW	0	Bore Pit and Equipment	0.21
2.4	Clatsop	Clatsop Airport Road	50 x 200	W38CL083 W99CL202	EM, ROW, AG, PSS	0	Bore Pit and Equipment	0.25
2.4	Clatsop	Clatsop Airport Road	50 x 425	W5BCL066	EM, OS, PSS	0	Bore Pit and Equipment	0.55
				W5BCL067		0		
2.4	Clatsop	Clatsop Airport Road	50 x 175	W5BCL066	EM, PSS,	0	Bore Pit and Equipment	0.21

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
				W5BCL067		0		
2.8	Clatsop	Lewis and Clark River	125 x 300	W40CL001	UF, PSS	0	HDD Equipment Pad	0.97
3.4	Clatsop	Lewis and Clark River	150 x 300	W40CL010	AW	0	HDD Equipment Pad/ Pullback	0.95
3.7	Clatsop	Slough/Waterbody	50 x 500	W99CL077A	AW	0	Additional Spoil Area/ Staging Area	0.57
4.0	Clatsop	Slough/Waterbody	50 x 770	W5BCL042F	AW	0	Additional Spoil Area/ Staging Area	0.88
4.1	Clatsop	Slough/Waterbody	50 x 400	W5BCL042F	AW	0	Additional Spoil Area/ Staging Area	0.46
4.2	Clatsop	Slough/Waterbody	50 x 350	S5BCL063	EM, AW	50	Additional Spoil Area/ Staging Area	0.40
				W42CL001		0		
				W5BCL042F		0		
4.4	Clatsop	Slough/Waterbody	50 x 1100	W42CL001	EM	0	Additional Spoil Area/ Staging Area	1.27
				S5BCL064		0		
4.6	Clatsop	Slough/Waterbody	50 x 125	W42CL001	EM	0	Additional Spoil Area/ Staging Area	0.14
				W5BCL042C		48		
				W5BCL043		0		
				S5BCL066		48		
4.6	Clatsop	Slough/Waterbody	50 x 175	W5BCL042C	AW	0	Additional Spoil Area/ Staging Area	0.20
4.7	Clatsop	Slough/Waterbody	50 x 150	S5BCL065	AW	48	Additional Spoil Area/Staging Area	0.17
				S5BCL068		50		
				W42CL002		0		
				W40CL016		0		
4.8	Clatsop	Slough/Waterbody	50 x 250	W40CL016	AW	0	Additional Spoil Area/ Staging Area	0.29
				S5BCL068		49		
				W42CL002		0		

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
				W5BCL042C		0		
4.9	Clatsop	Slough/Waterbody	50 x 325	W39CL004	AW	0	Additional Spoil Area/ Staging Area	0.37
				W40CL016	AW	0		
				W5BCL042D	AW	0		
5.0	Clatsop	Lewis and Clark River Bank	80 x 300	W39CL004	AW	0	HDD Equipment Pad	0.55
				W40CL016				
5.4	Clatsop	Lewis and Clark River	75 x 410	S99CL034	AW, AG	0	HDD Pullback	0.70
				W40CL023				
5.5	Clatsop	Slough/Waterbody	50 x 320	W99CL074	AW	0	Additional Spoil Area/ Staging Area	0.37
				W40CL023		0		
5.5	Clatsop	Slough/Waterbody	50 x 225	W40CL023	AW	0		0.27
				W99CL074	AW	0		
5.5	Clatsop	Lewis and Clark River Bank	50 x 325 & 75 x 1300	W40CL023	AW, AG	0	HDD Equipment Pad/ Pullback/Additional Spoil Area/Staging Area	2.50
5.6	Clatsop	Lewis and Clark River	80 x 250	W99CL073	AW	0	HDD Equipment Pad	0.46
5.6	Clatsop	Slough/Waterbody	50 x 200	W99CL073	AW	0	Additional Spoil Area/ Staging Area	0.23
6.3	Clatsop	Point of Intersection	50 x 175	W38CL007B	EM	0	Additional Spoil Area	0.20
6.3	Clatsop	Point of Intersection	50 x 175	W38CL007B	EM, IF, AG	0	Additional Spoil Area	0.20
8.0	Clatsop	Wetland	50 x 250	W1BCL003	IF	50	Additional Spoil Area	0.29
10.9	Clatsop	Lewis and Clark River	80 x 300	W99CL004	EM, ROW	0	HDD Equipment Pad	0.64
				W99CL007	EM	0		
19.4	Clatsop	Wetland/Stream	50 x 110	W7BCL004	EM, IF	0	Additional Spoil Area/ Staging Area	0.13
19.4	Clatsop	Wetland/Stream	50 x 220	W7BCL004	IF, EM	0	Additional Spoil Area/ Staging Area	0.21
29.0	Clatsop	Point of Intersection	50 x 100	S5BCL001	IF	50	Additional Spoil Area	0.13

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
33.9	Clatsop	Point of Intersection	50 x 100	W39CL014	AG, AW	0	Additional Spoil Area/ Staging Area	0.22
				W39CL015		46		
33.9	Clatsop	Point of Intersection	50 x 100	W39CL014	AG, AW	0	Additional Spoil Area/ Staging Area	0.21
				W39CL015		46		
34.0	Clatsop	Point of Intersection	50 x 100	W39CL014	AW, ROW	46	Additional Spoil Area/ Staging Area	0.21
				W39CL015		0		
34.0	Clatsop	Point of Intersection	50 x 100	W39CL014	AW, AG, ROW	46	Additional Spoil Area/ Staging Area	0.21
				W39CL015		0		
36.3	Clatsop	Wetland	50 x 150	W3BCL101	PSS, UF	0	Additional Spoil Area	0.03
				W3BCL101		0		0.14
36.4	Clatsop	Wetland	50 x 150	S3BCL102	UF, PSS	50	Additional Spoil Area/ Staging Area	0.17
				W3BCL101b		0		
				W3BCL101		0		
36.9	Clatsop	Steep Terrain/ Wetland	50 x 100	W3BCL101b	UF, PSS	0	Additional Spoil Area	0.12
37.6	Clatsop	Stream	50 x 100	W8BCL004	EM, IF	0	Additional Spoil Area/ Staging Area	0.14
40.9	Clatsop	Steep Terrain	150 x 175	W8BCL007C	IF	20	Additional Spoil Area	0.12
40.9	Clatsop	Steep Terrain	150 x 175	W8BCL007A	IF, PSS	36	Additional Spoil Area	0.68
				W8BCL007C		IF		
42.6	Clatsop	Wetland/Stream	50 x 100	S1BCL020	IF	50	Additional Spoil Area/ Staging Area	0.11
				W1BCL040		5034		
42.7	Clatsop	Wetland/Stream	50 x 100	S1BCL020	IF	50	Additional Spoil Area/ Staging Area	0.11
				W1BCL040		IF		
48.2	Columbia	Point of Intersection /Road Crossing	350 x 50 & 200 x 50	W1BCO001	IF	50	Additional Spoil Area/ Staging Area	0.59
48.3	Columbia	Steep Terrain/Wetland	200 x 50	W1BCO003	IF	40		0.23

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
				S1BCO000	IF	49	Additional Spoil Area/ Staging Area	
50.6	Columbia	Wetland	100 x 50	W3BCO111	IF	0	Additional Spoil Area/ Staging Area	0.10
55.4	Columbia	Wetland	100 x 50	W3BCO109	IF	34	Additional Spoil Area	0.12
55.7	Columbia	Wetland	100 x 50	W3BCO107	EM, IF	0	Additional Spoil Area	0.12
55.8	Columbia	Wetland	100 x 50	W3BCO107	IF, EM	0	Additional Spoil Area	0.12
63.6	Columbia	Nehalem River Crossing	300 x 80	W3BCO103c	EM,IF	0	HDD Entry/Equipment Pad	0.55
				W3BCO103				
70.7	Columbia	Wetland	100 x 50	S99CO020	IF	36	Additional Spoil Area	0.12
72.9	Columbia	Road/Stream crossing	565 x 50	W3BCO007	IF,FW		Additional Spoil Area/ Staging Area	0.52
81.2	Columbia	Columbia River Crossing	3575 x 50	W5BCO013	UF, OS	2	HDD Equipment Pad/ Staging Area	3.43
81.4	Columbia	Columbia River Crossing	50 x 100	W5BCO013	FW, UF	0	Additional Staging Area	0.16
81.5	Columbia	Columbia River Crossing	50 x 170	W5BCO013 W99CO030	FW	0	Additional Staging Area	0.21
81.6	Columbia	Columbia River Crossing	50 x 856	W99CO005 W99CO030 W99CO031 W99CO032	EM, FW, OS	0 0 0 0	Additional Staging Area	1.01
81.6	Columbia	Columbia River Crossing	50 x 170	W99CO030 W99CO031	EM, FW	0 0	Additional Staging Area	0.21
81.7	Columbia	Columbia River Crossing	50 x 138	W99CO005 W99CO030 W99CO031	EW, FW	0 0 0	Additional Staging Area	0.16

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
81.7	Columbia	Columbia River Crossing	150 x 50	W99CO006	ROW, EM, FW	0	Additional Staging Area	0.17
				W99CO007		0		
				W99CO032		0		
81.8	Columbia	Columbia River Crossing	80 x 305	W99CO006	ROW, FW	0	Additional Staging Area	0.57
82.8	Cowlitz	Columbia River Crossing	350 x 80	W99CW001	EM	0	Additional Staging Area	0.62
82.8	Cowlitz	Columbia River Crossing	50 x 200	W99CW001	EM	0	Additional Staging Area	0.22
83.2	Cowlitz	Columbia River Crossing	200 x 50	W99CW002	EM	0	Additional Spoil Area/Staging Area	0.23
83.4	Cowlitz	Columbia River Crossing	200 x 50	W99CW002	EM	0	Additional Spoil Area/Staging Area	0.23
85.7	Cowlitz	I-5	175 x 50	W99CW022	EM, OS	0	Additional Spoil Area/Staging Area	0.21
85.7	Cowlitz	I-5	50 x 175	W99CW022	EM, OS	0	Additional Spoil Area/Staging Area	0.19
85.9	Cowlitz	POI/Road Crossing	175 x 50	W99CW022	EM, RE	0	Additional Spoil Area/Staging Area	0.20
85.9	Cowlitz	POI/Road Crossing	50 x 143	S99CW022	RE	0	Additional Spoil Area/Staging Area	0.20
86.0	Cowlitz	POI/Road Crossing	100 x 50	S99CW022	UF	0	Additional Spoil Area/Staging Area	0.11
86.4	Cowlitz	Point of Intersection	50 x 110	S99CW023	OS	0	Additional Spoil Area	0.17
86.5	Cowlitz	Point of Intersection	50 x 112	W99CW011 S99CW023	EM, OS	0	Additional Spoil Area	0.16

Notes:

AG = Agriculture

ATWS = Additional Temporary Workspaces

AW = Agricultural Wetland

Table E4-2: Additional Temporary Workspaces within 50 Feet of Wetlands and Waterbodies

Milepost	County	Crossing	Dimensions (feet)	Wetland Water ID	Land Use in Additional Temporary Workspaces	Distance to Wetland (feet)	Description	Additional Temporary Workspaces Acreage
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EM = Emergent Wetland
 EW = Estuarine Wetland
 FW = Forested Wetland
 IF = Industrial Forest
 OS = Open Space
 PSS = Palustrine Scrub-Shrub Wetland
 RE = Residential
 ROW = Right-of-Way
 UF = Upland Forest

Precision loss may occur because of rounding.

APPENDIX E5

MAPS AND TABLE OF ACCESS ROADS



LEGEND

- Terminal Layout
- Terminal Access Road

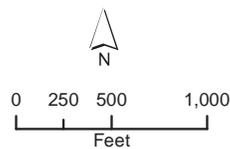
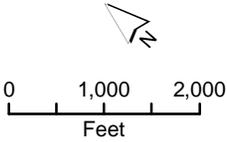


Figure 1
Access Roads for the Project



Figure 2
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road



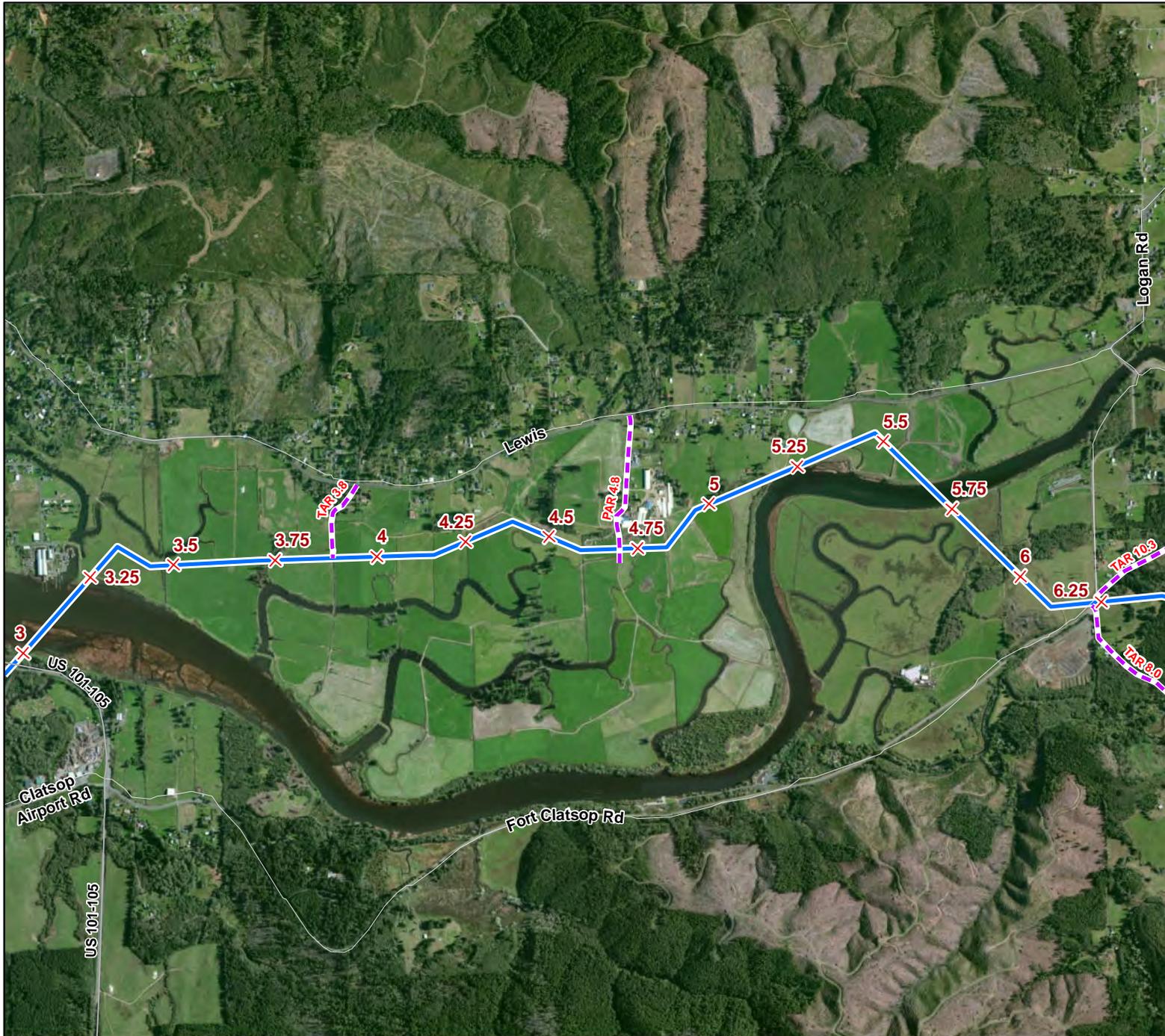


Figure 3
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

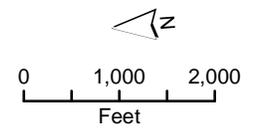
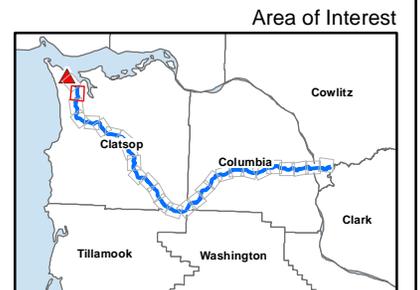
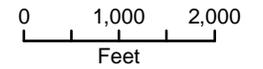




Figure 4
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



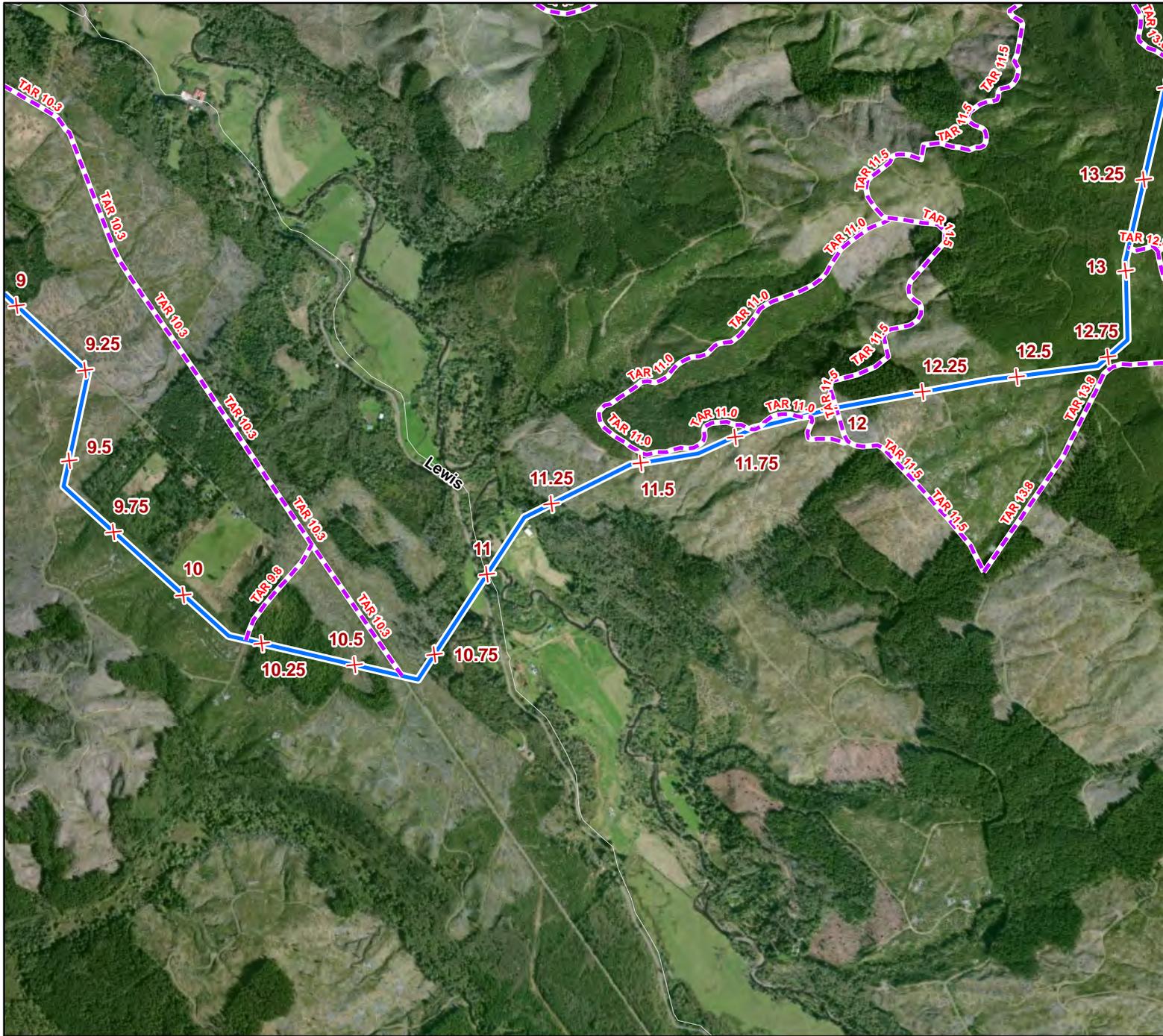
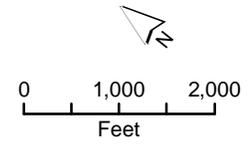
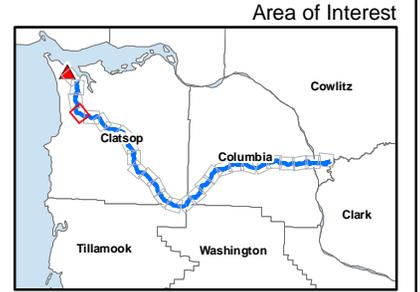


Figure 5
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road



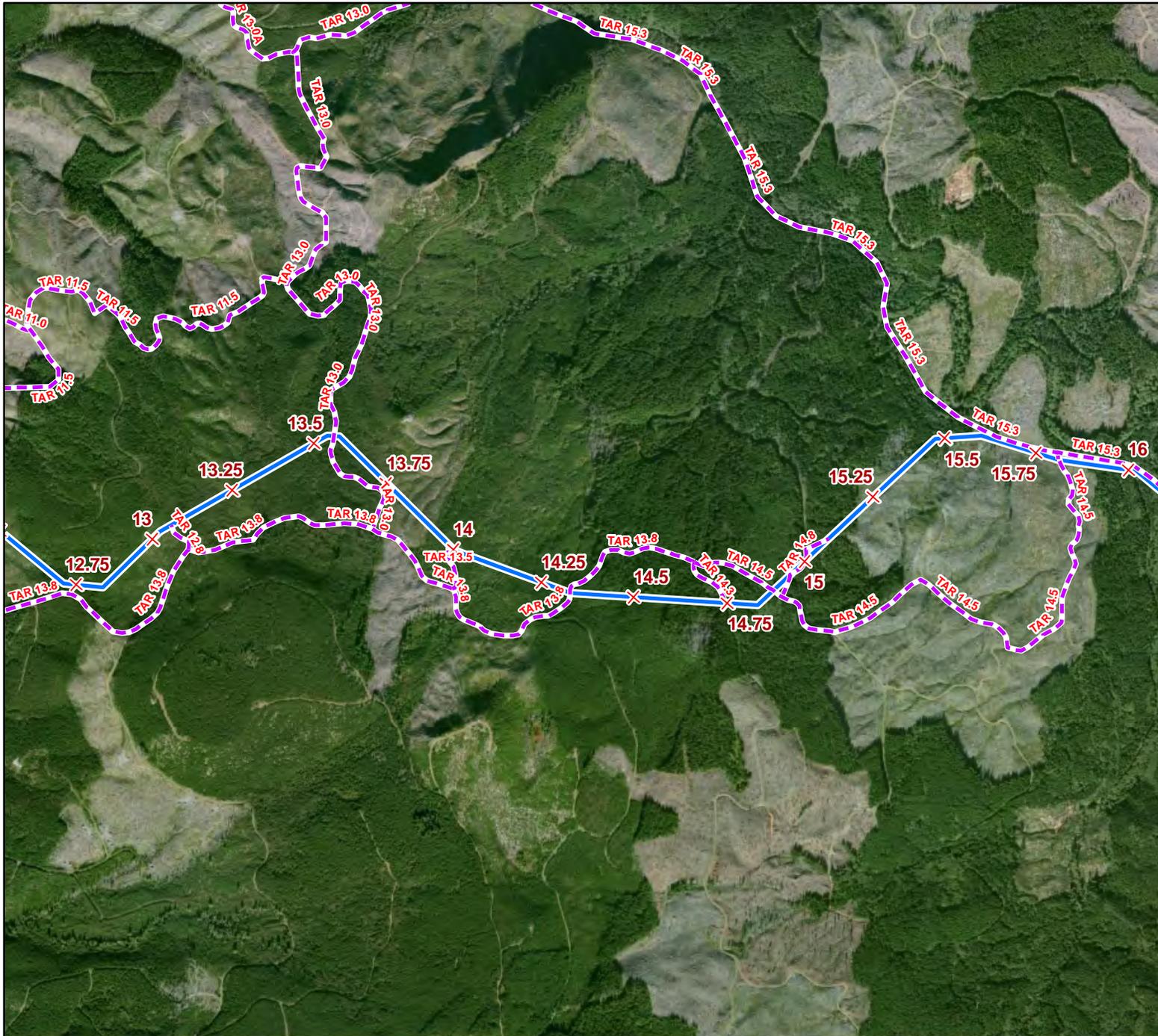
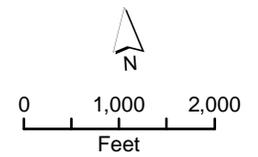


Figure 6
Access Roads for the Project

LEGEND

- × Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



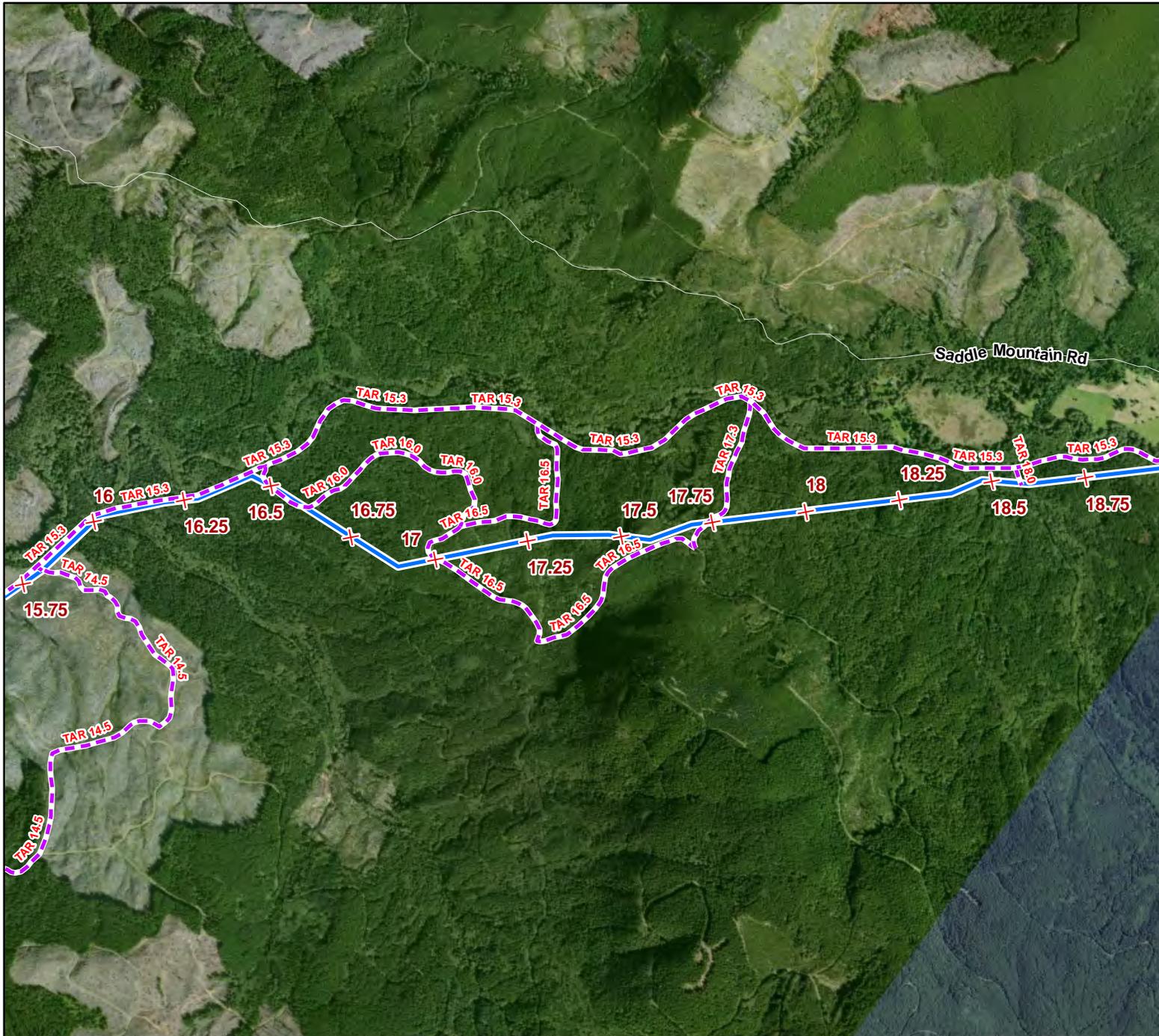
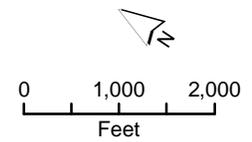


Figure 7
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



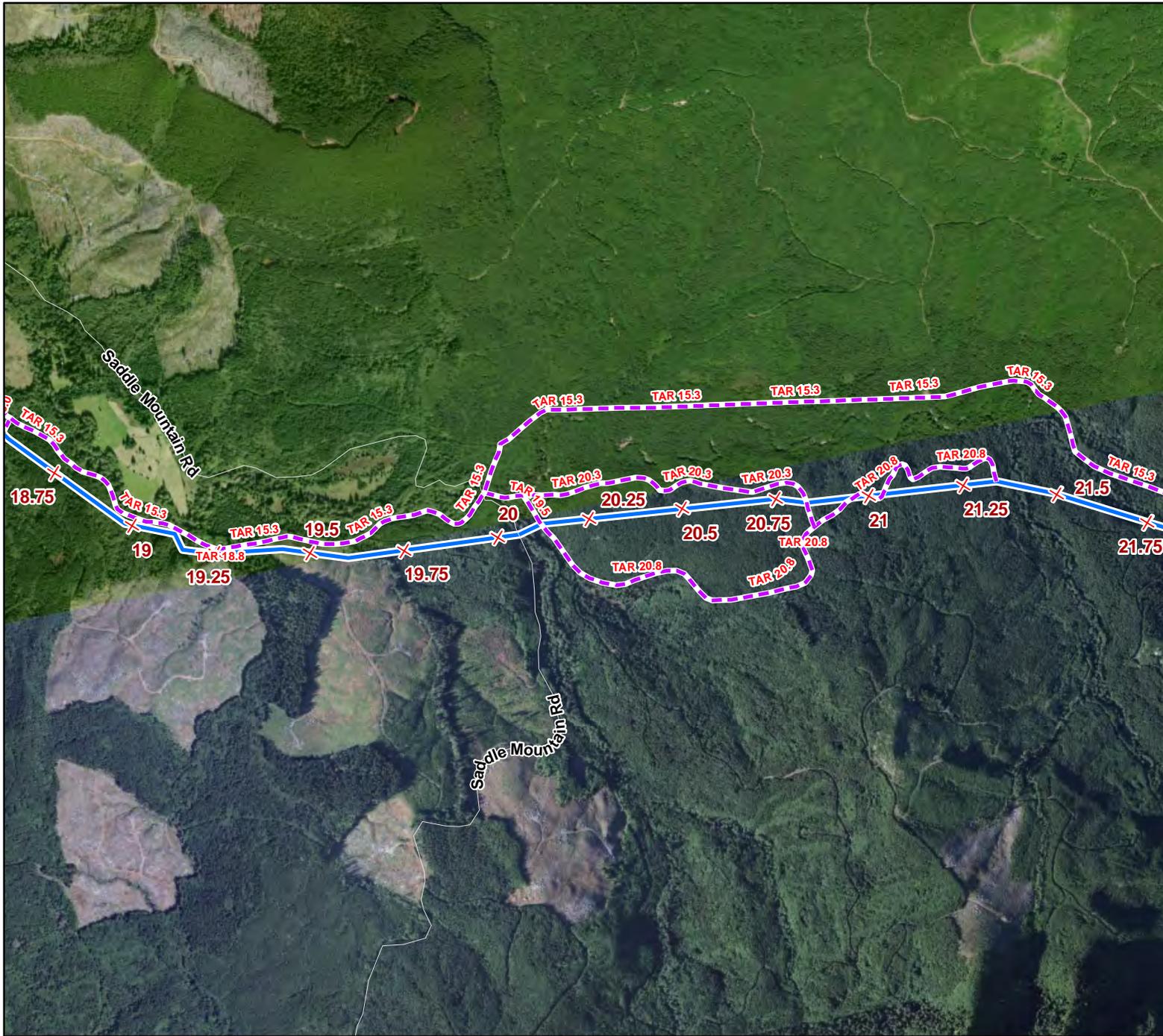


Figure 8
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

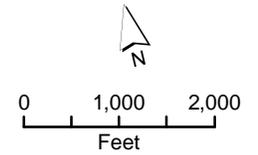
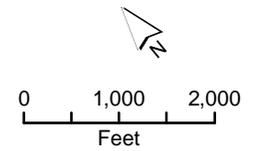




Figure 9
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



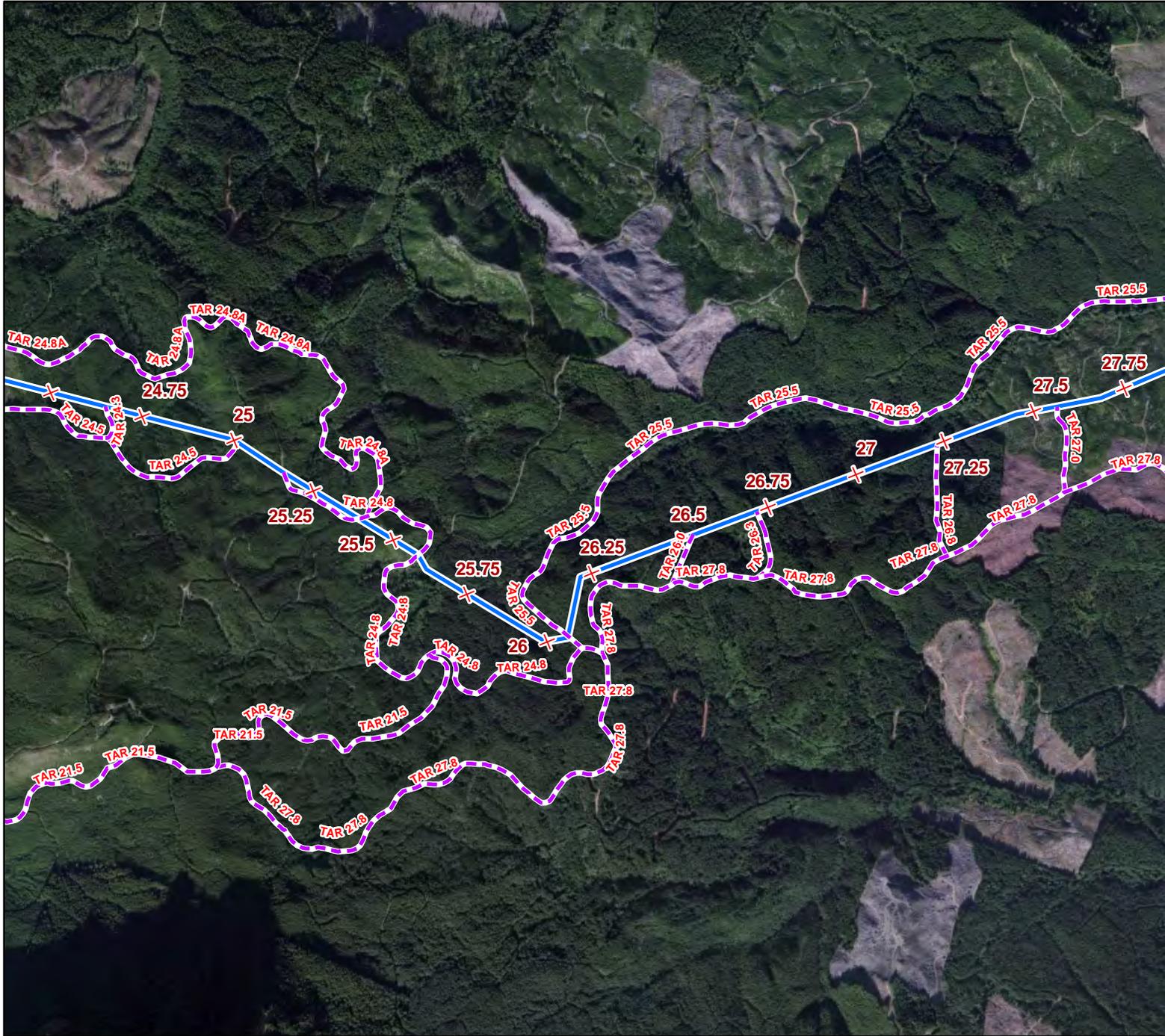
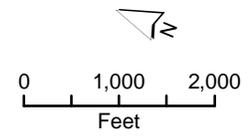
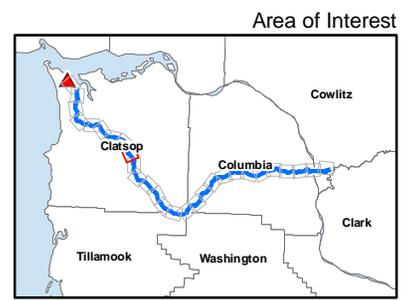


Figure 10
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road



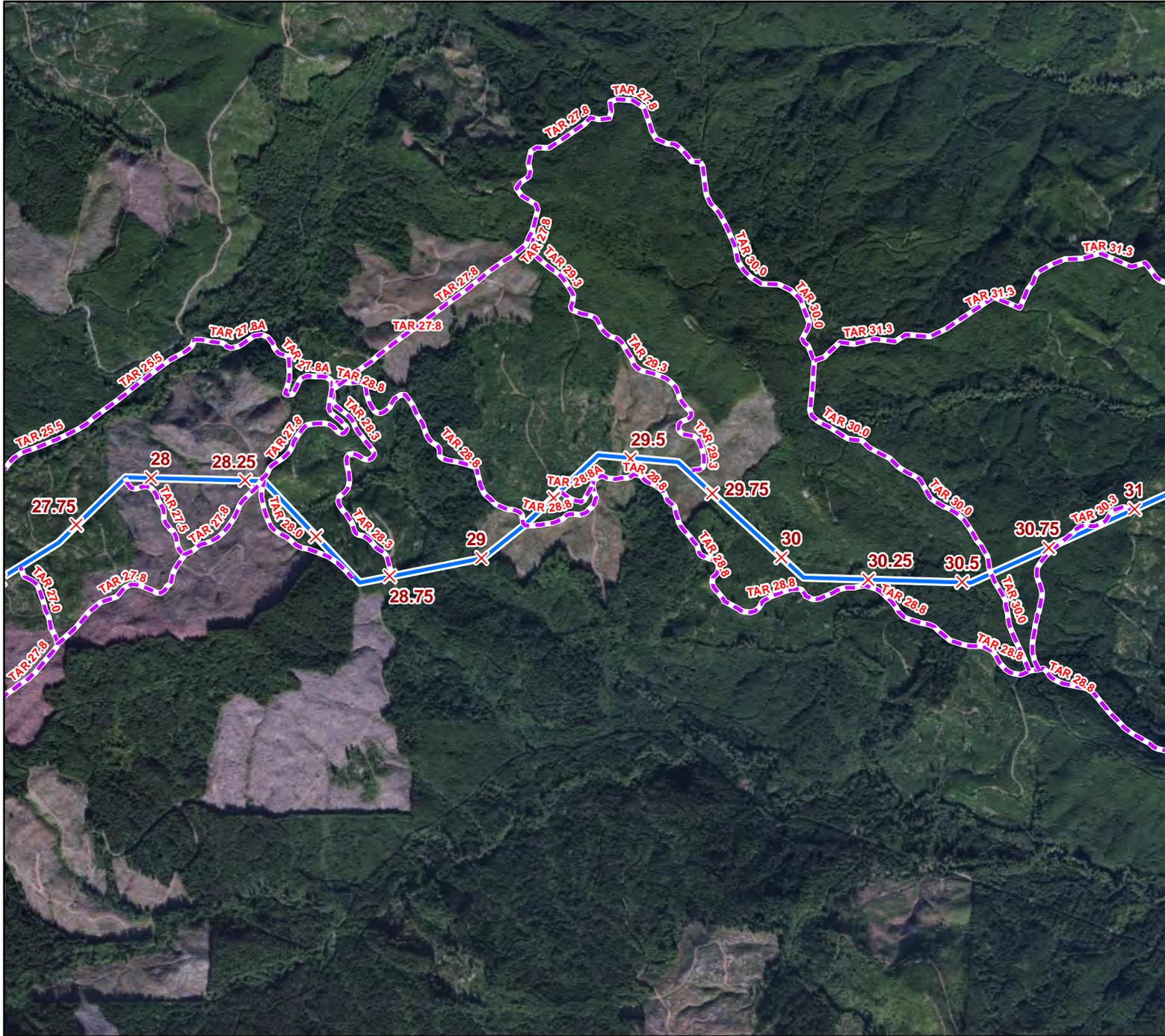
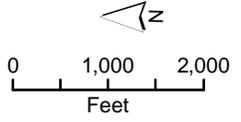


Figure 11
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road



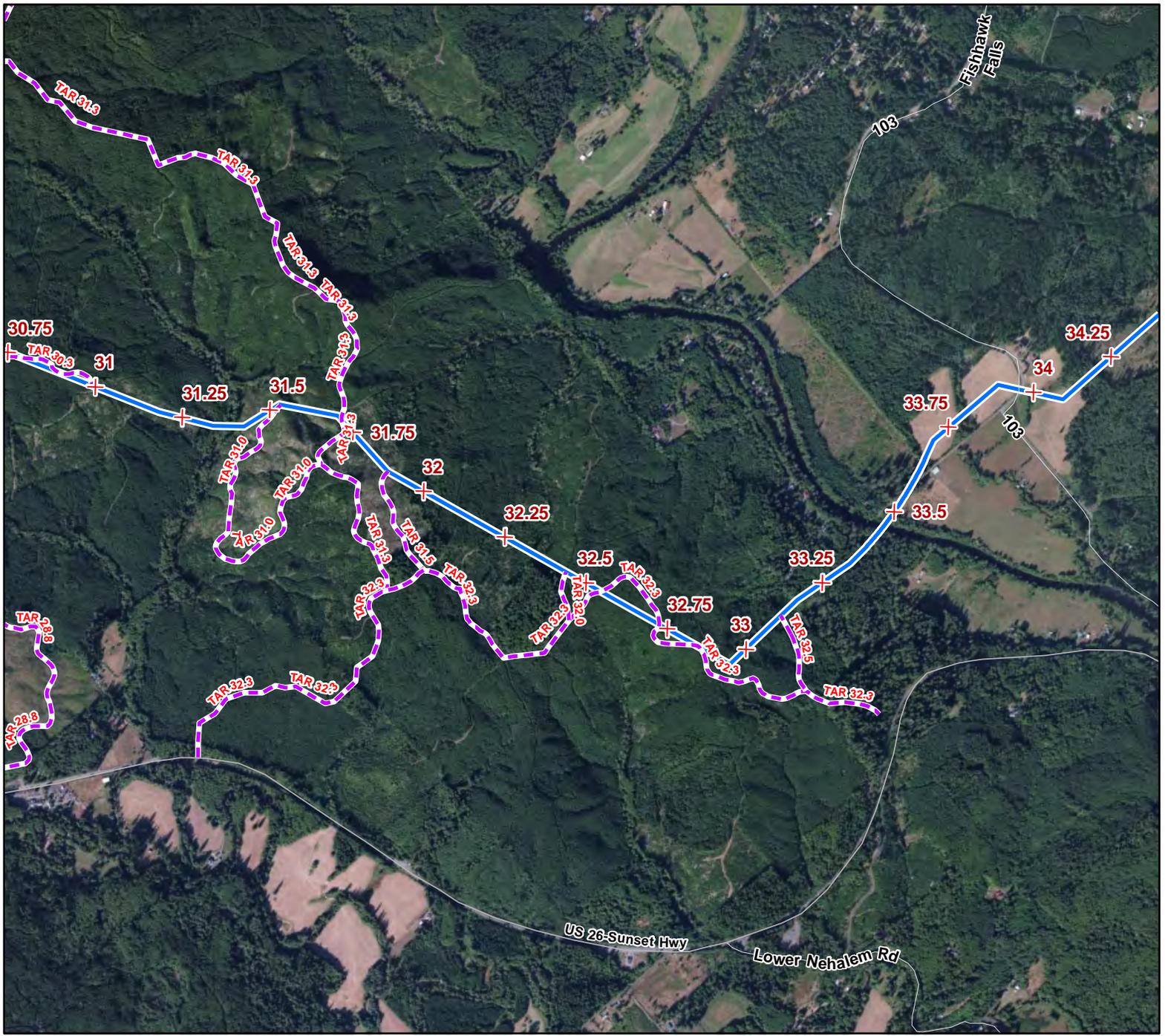


Figure 12
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road

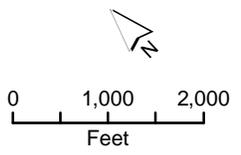
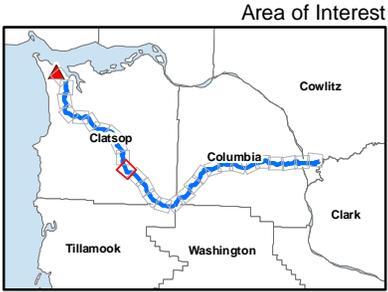




Figure 13
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road

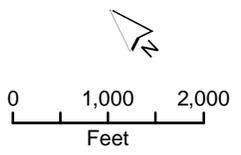
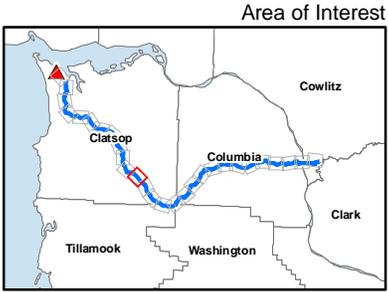




Figure 14
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

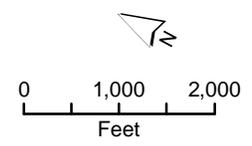
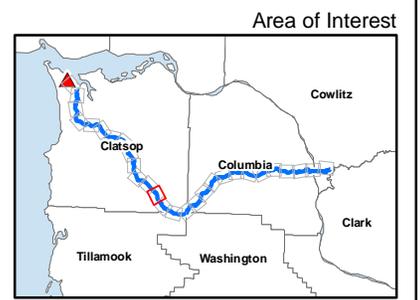




Figure 15
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

Area of Interest

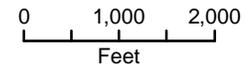
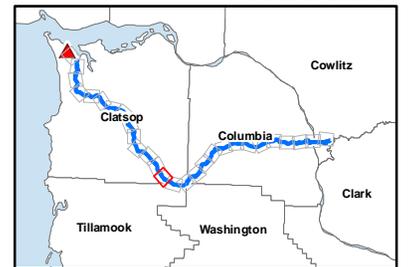


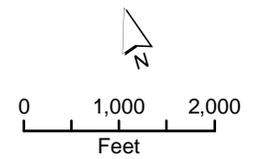


Figure 16
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

Area of Interest



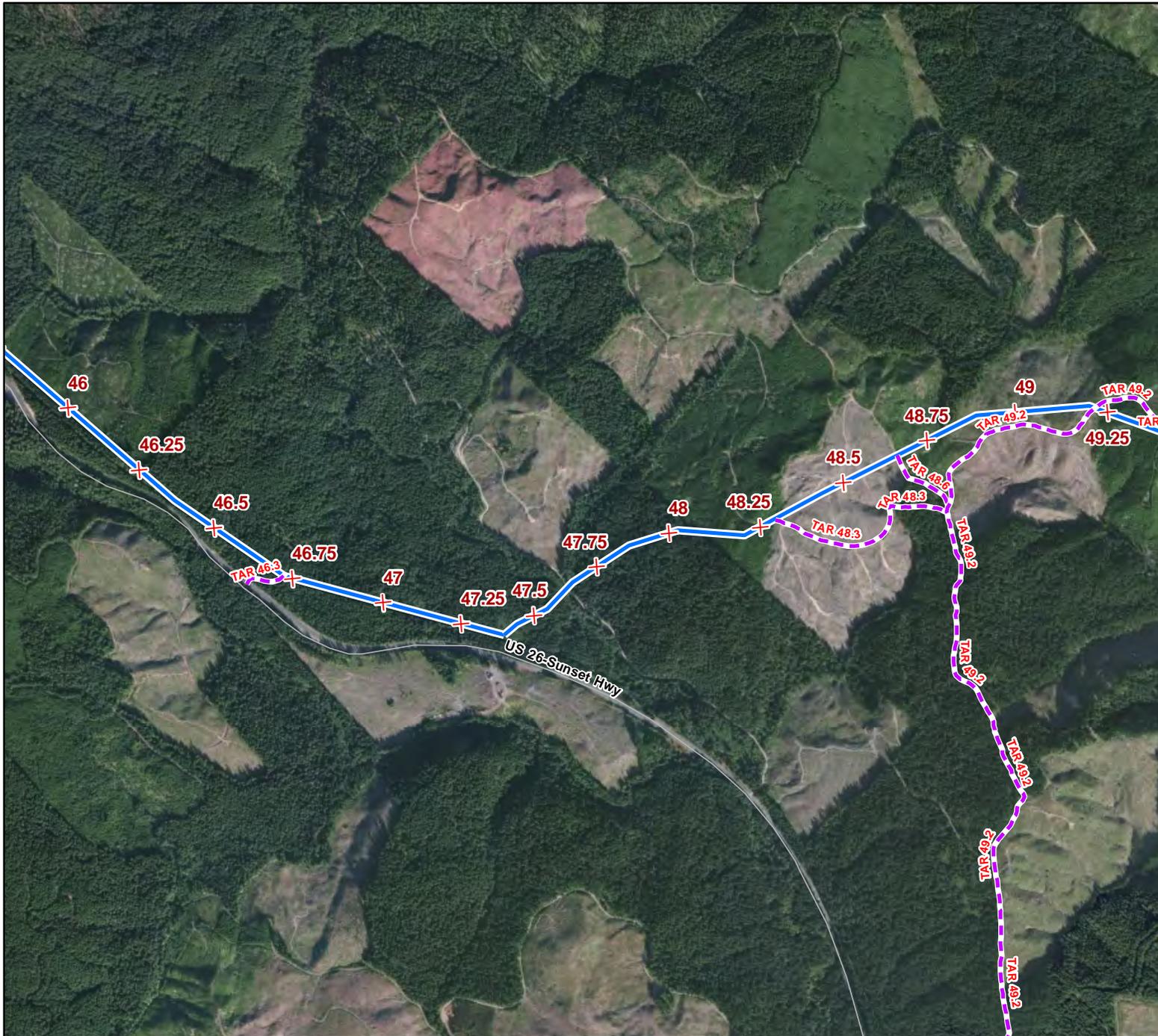
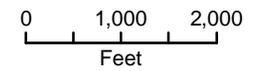


Figure 17
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

Area of Interest



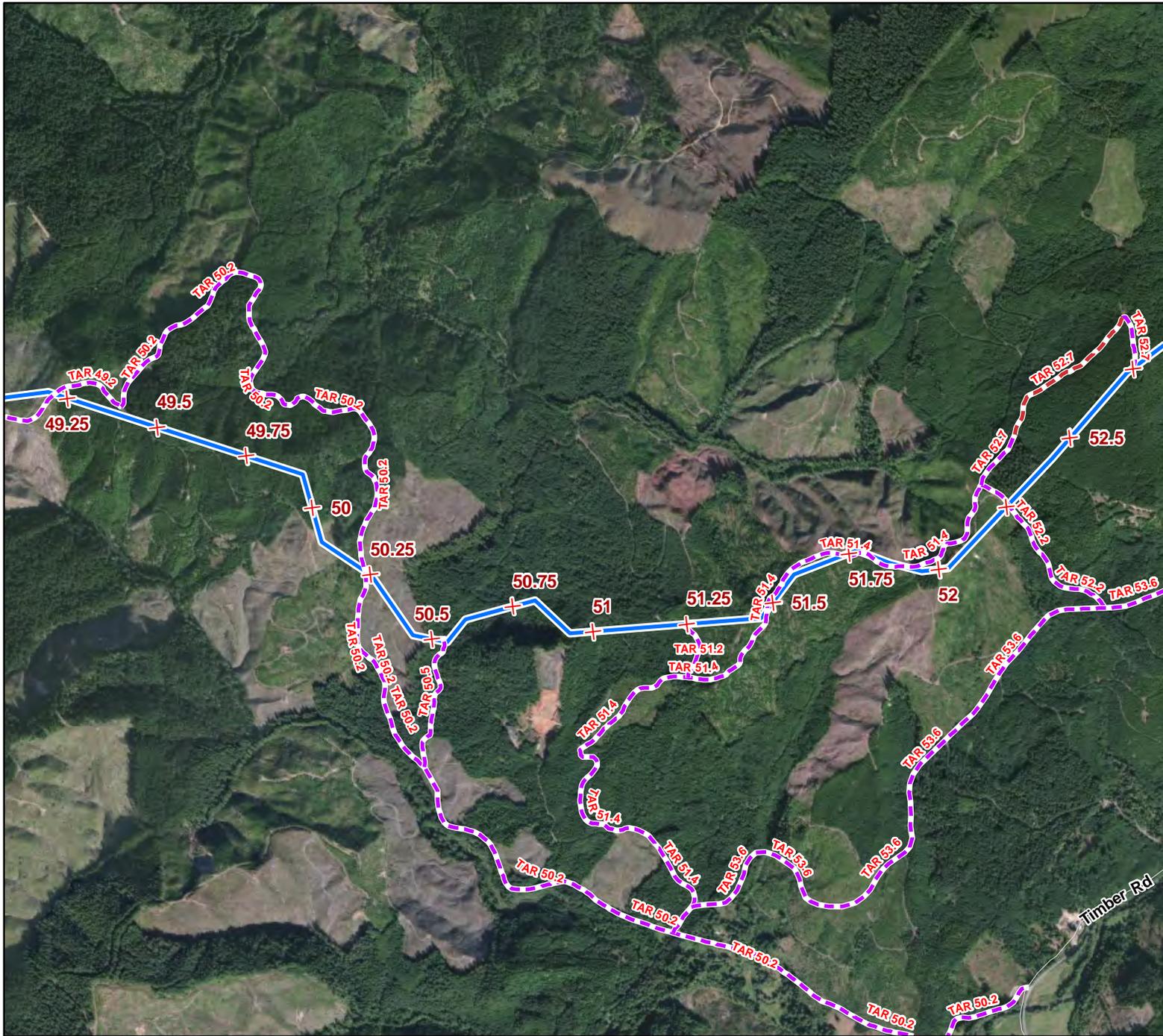


Figure 18
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road

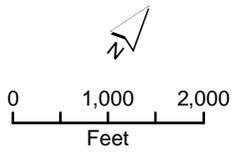
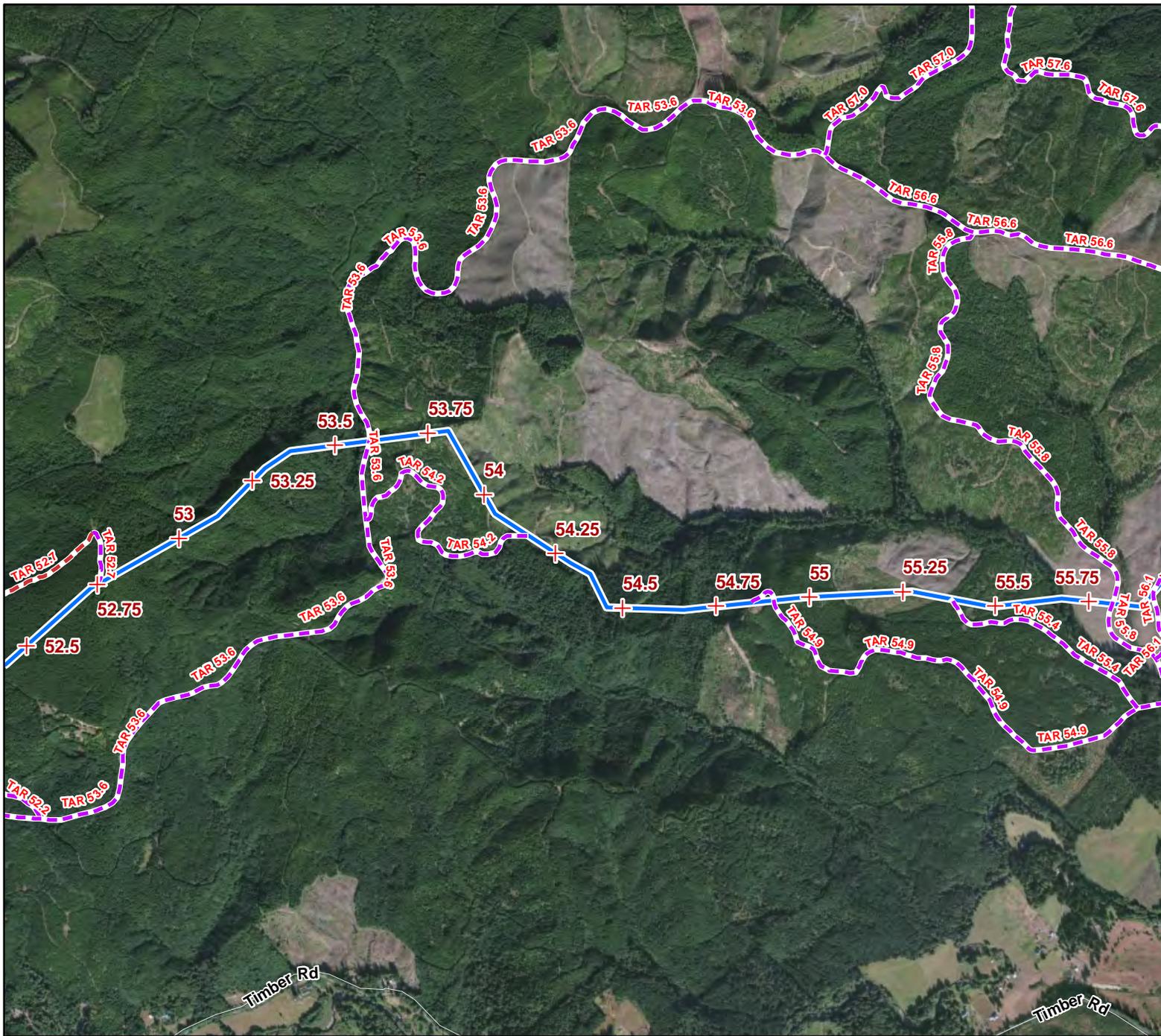


Figure 19
Access Roads for the Project



LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

Area of Interest

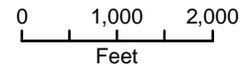
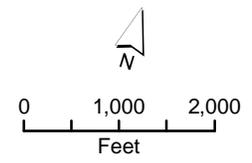




Figure 21
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



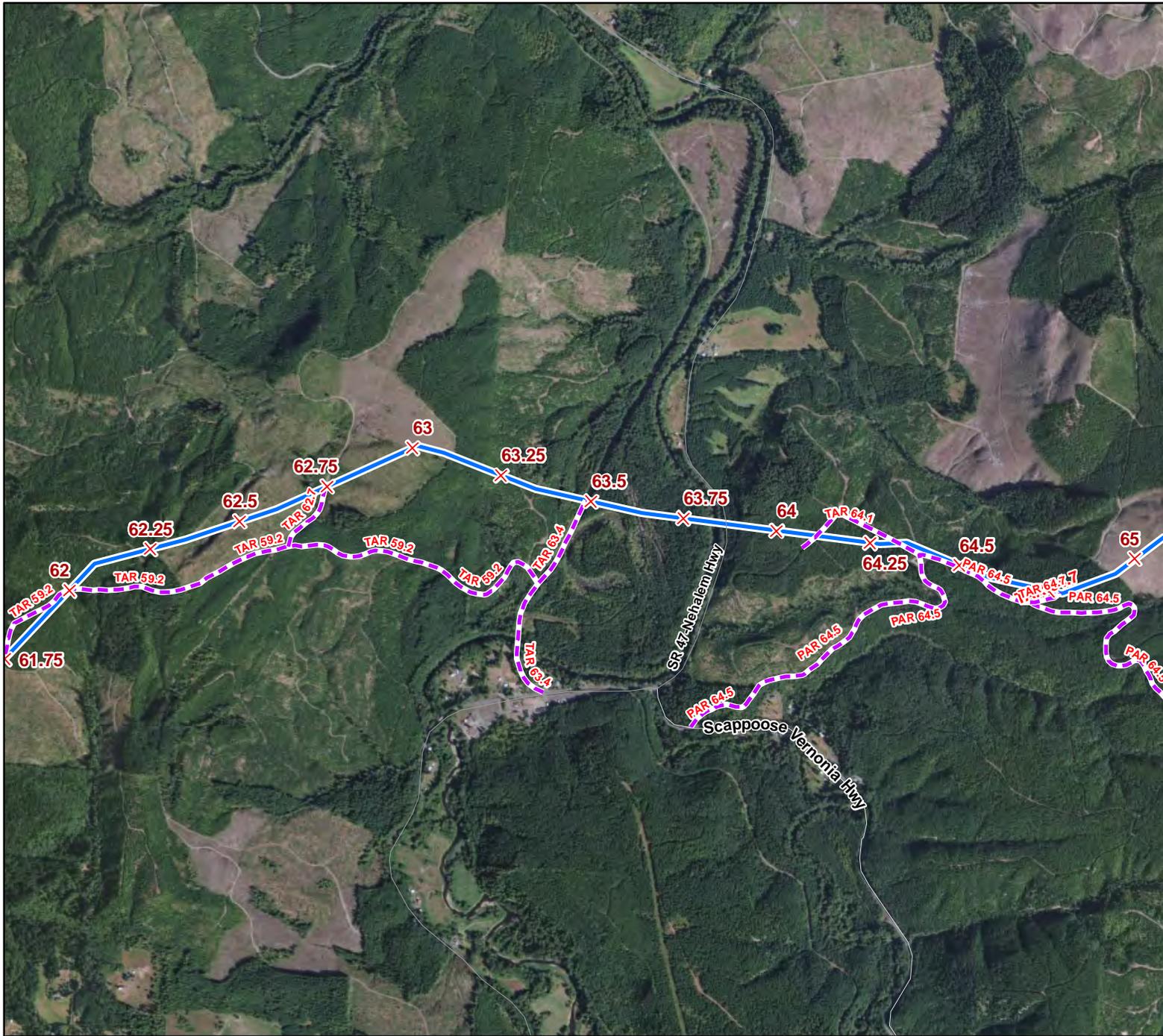


Figure 22
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road

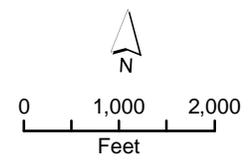
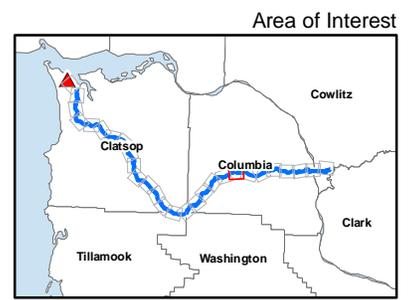




Figure 23
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road

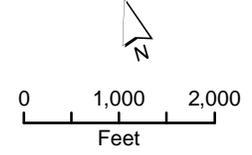
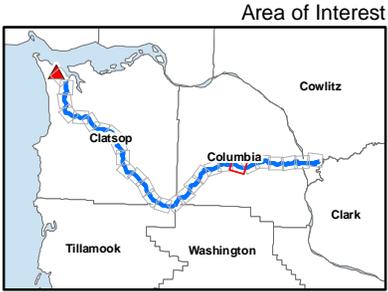
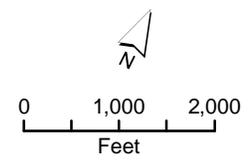
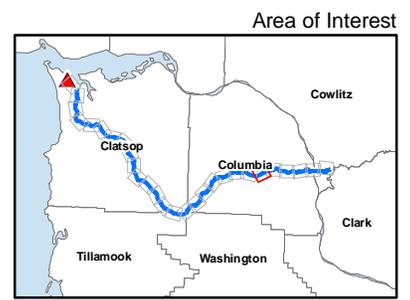




Figure 24
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



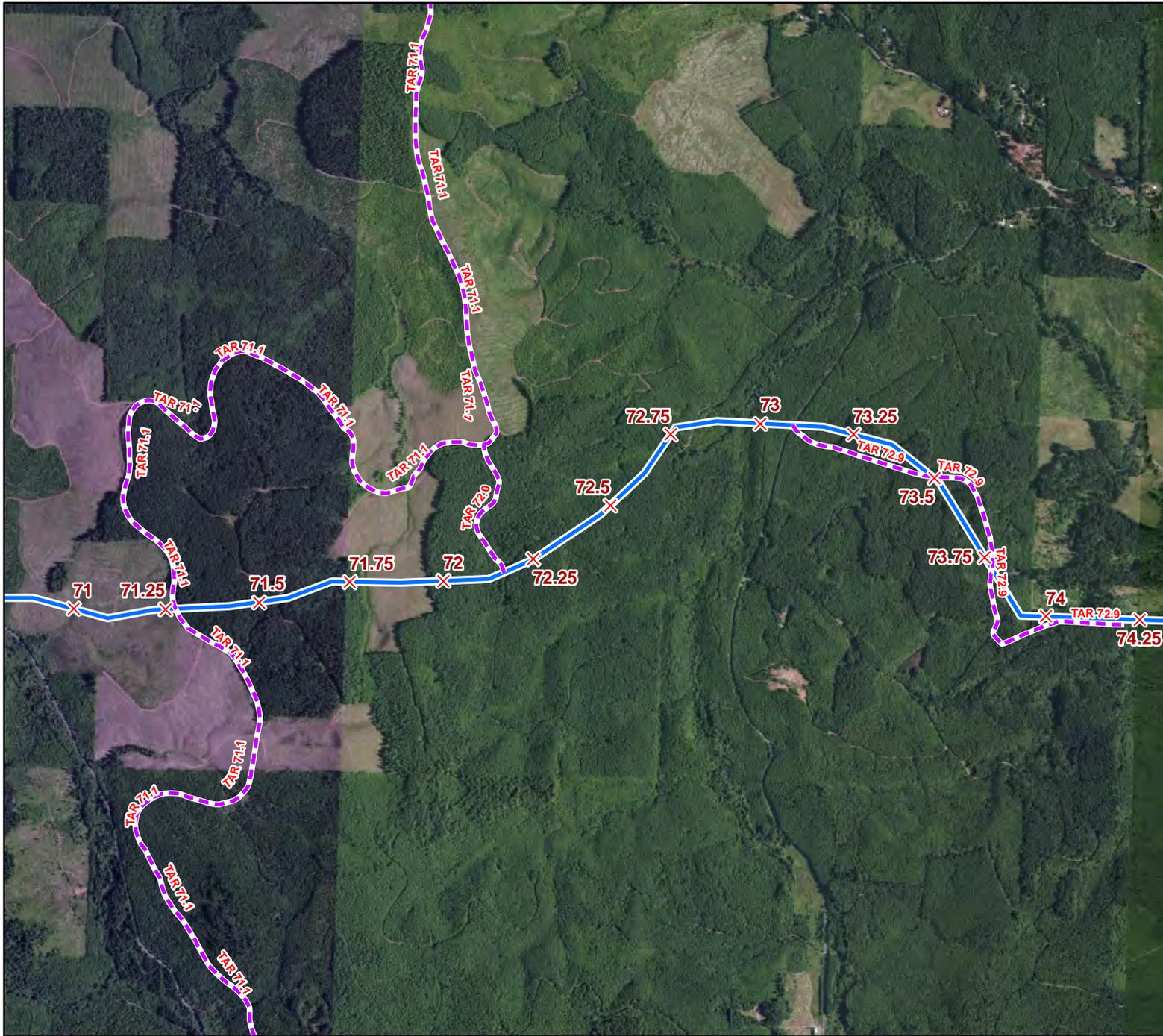
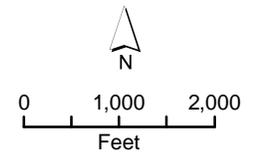


Figure 25
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



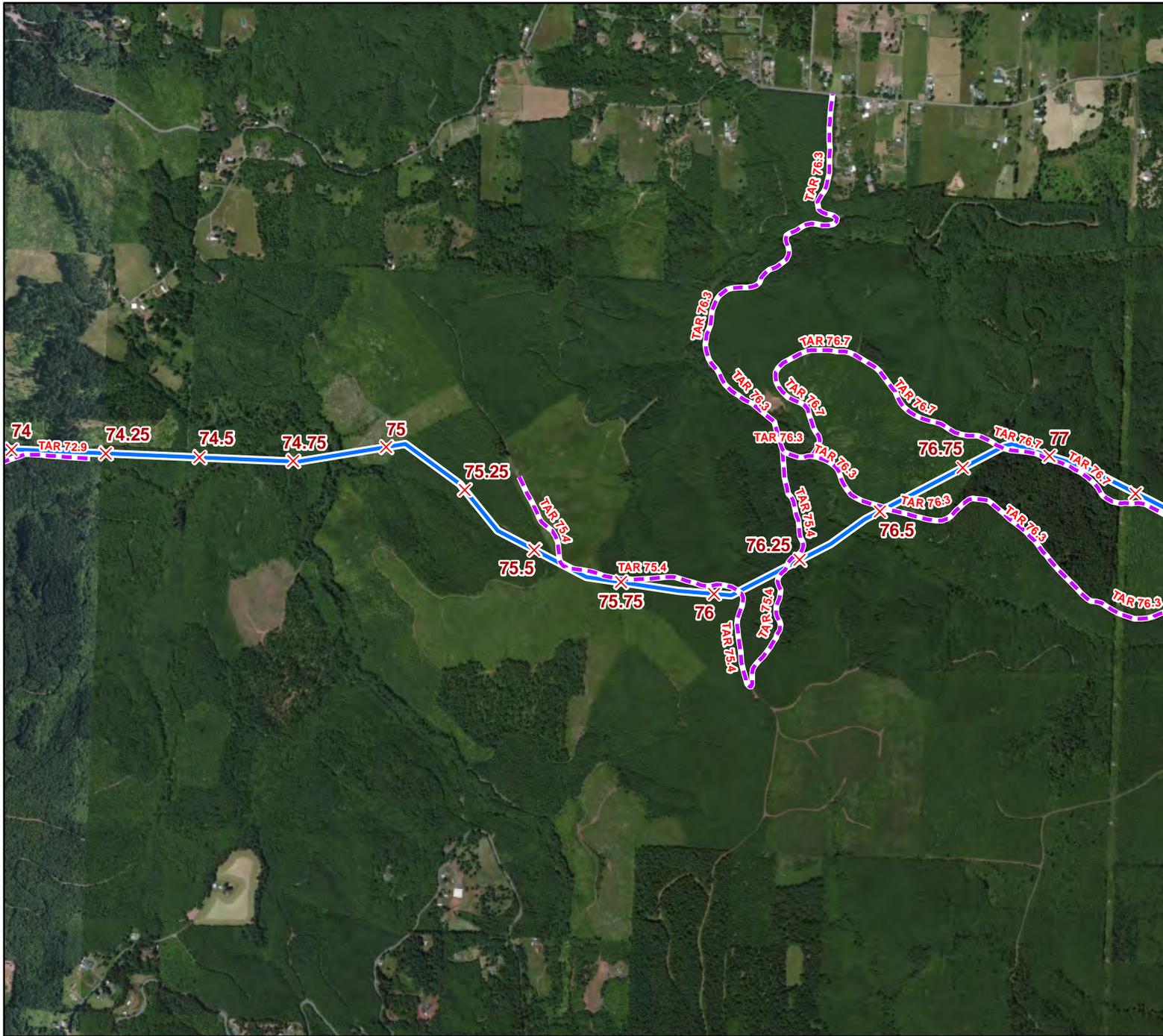
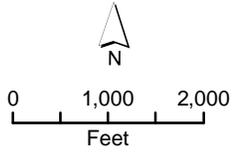
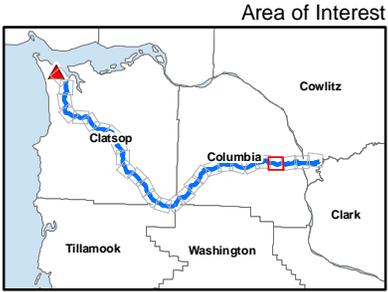


Figure 26
Access Roads for the Project

- LEGEND**
- ✕ Pipeline Route Milepost (Qtr Mile)
 - Pipeline Route
 - - - New Access Road
 - - - Existing Access Road



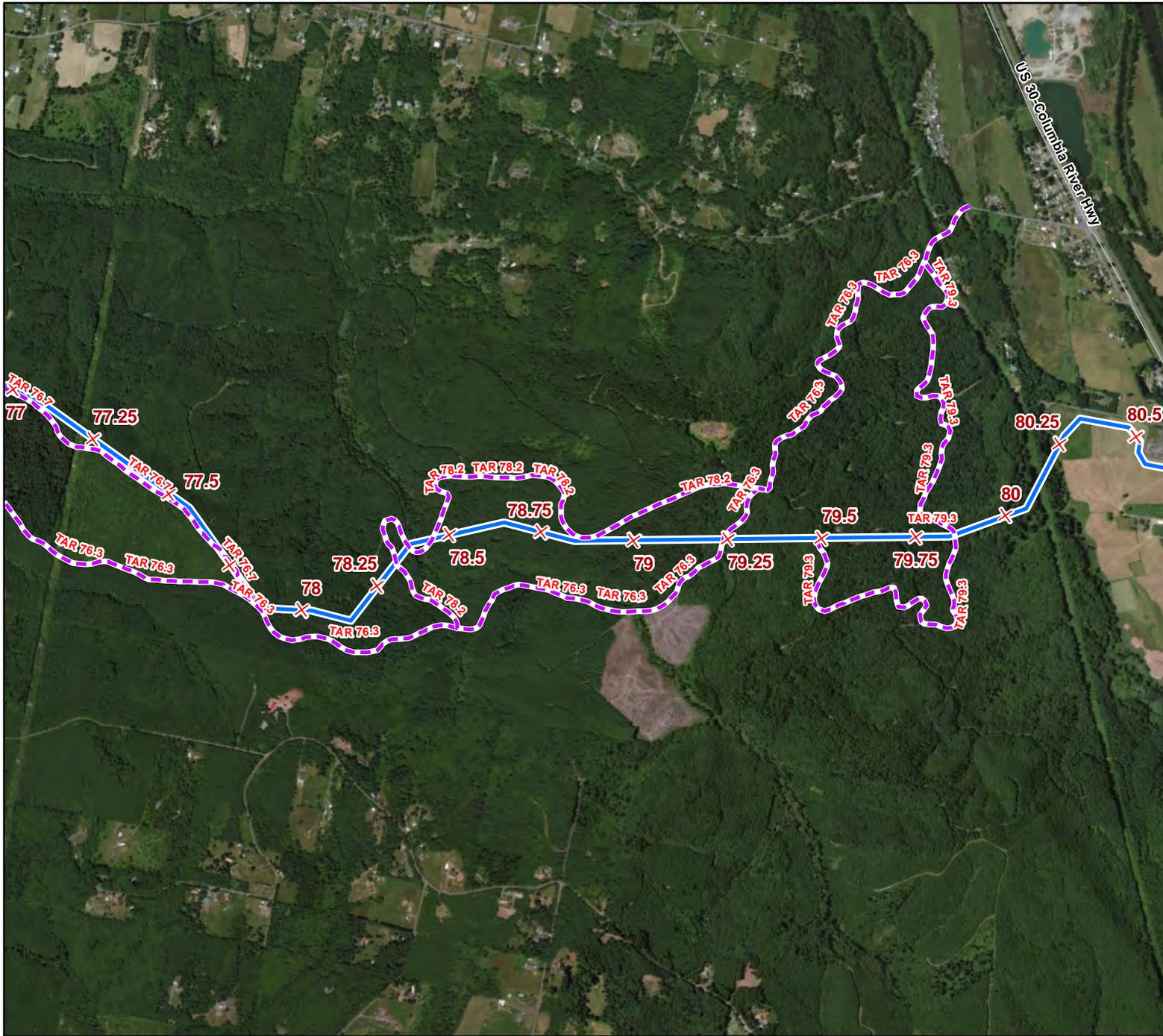
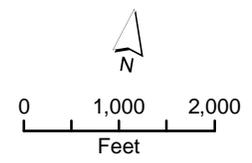


Figure 27
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



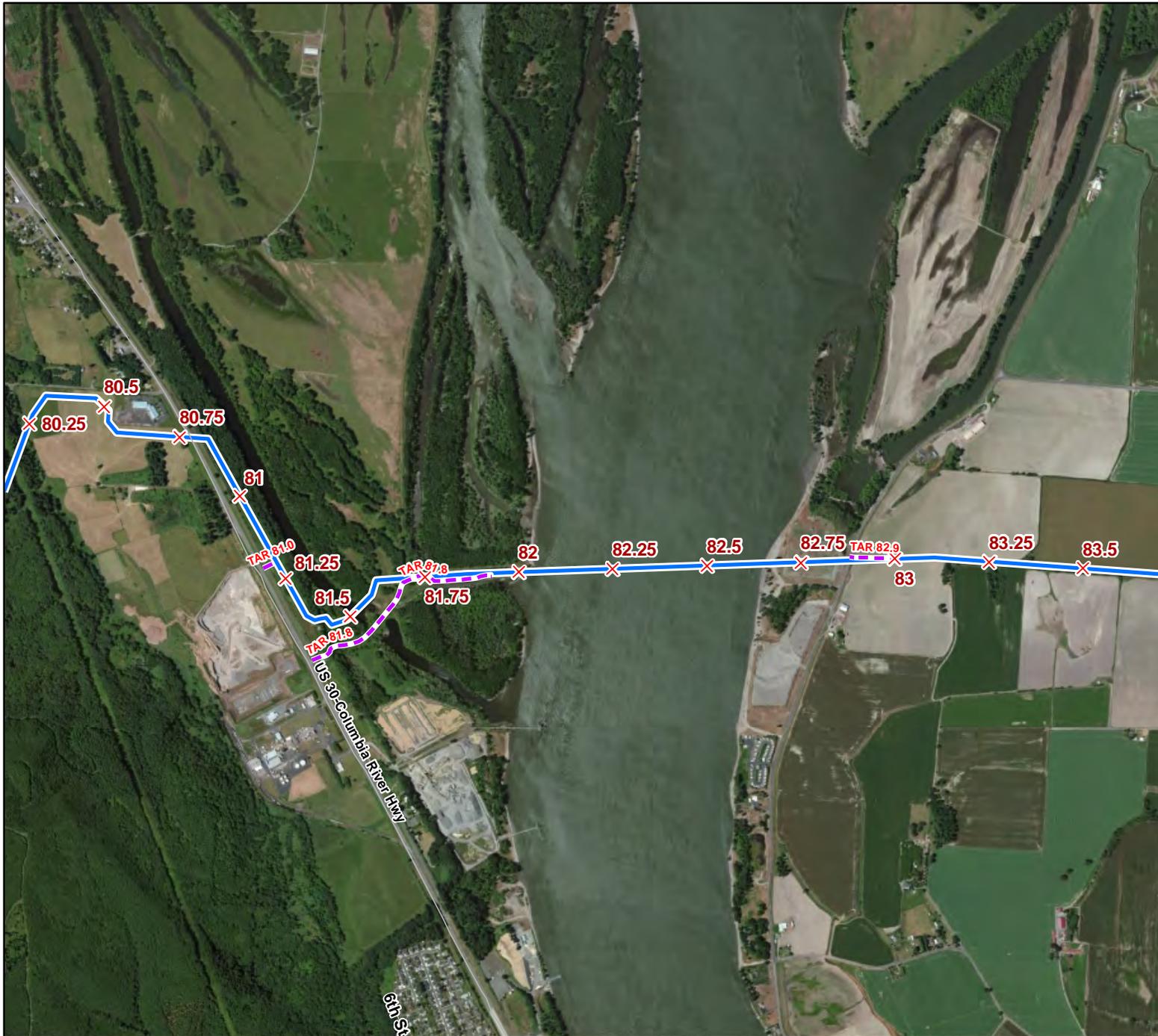
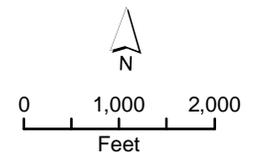


Figure 28
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



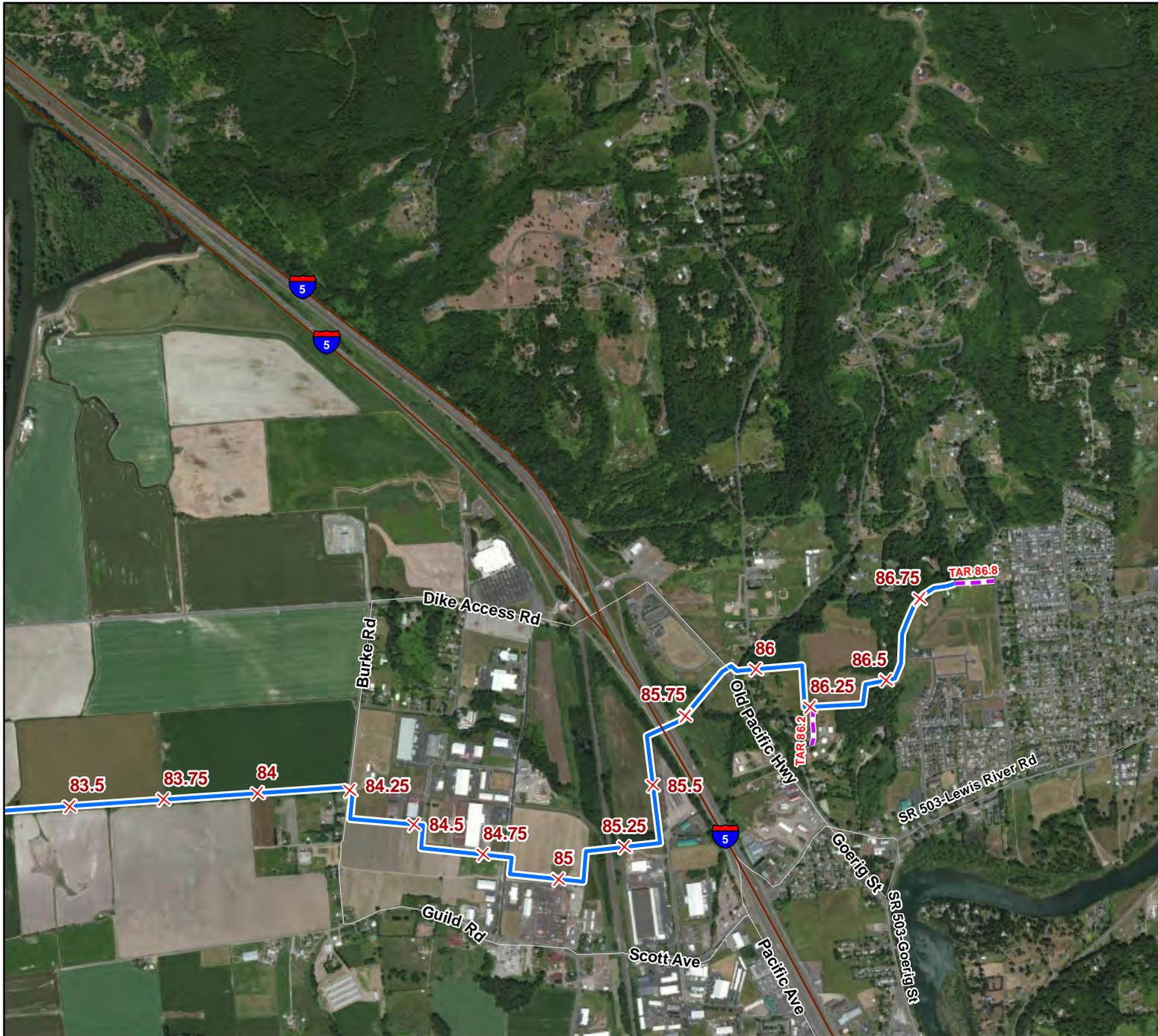
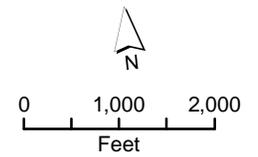


Figure 29
Access Roads for the Project

LEGEND

- ✕ Pipeline Route Milepost (Qtr Mile)
- Pipeline Route
- - - New Access Road
- - - Existing Access Road



Appendix E5

Access Roads for Oregon LNG Pipeline

Access Road ID	Milepost	Existing/New	Temporary/Permanent	Length (feet)	Width (feet)	Acres	Surface Type	Existing Land Use	Comment/Notes
TAR 3.8	3.9	Existing	Temporary	1,170	12.0	0.3	Dirt	Private Road	
PAR 4.8	4.8	Existing	Permanent	2,150	30.0	1.48	Gravel	Private Road	
TAR 6.5	6.9	Existing	Temporary	2,000	12.0	0.6	Gravel	Private Road	
TAR 7.0	7.6	Existing	Temporary	2,000	12.0	0.6	Gravel	Private Road	
TAR 7.5	8.1	Existing	Temporary	2,100	12.0	0.6	Unknown	Private Road	
TAR 8.0	8.5	Existing	Temporary	16,100	12.0	4.4	Gravel	Private Road	
TAR 9.8	10.2	Existing	Temporary	1,650	12.0	0.5	Gravel	Private Road	
TAR 10.3	10.6	Existing	Temporary	22,500	18.0	9.3	Gravel	Private Road	
TAR 11.0	11.9	Existing	Temporary	9,600	12.0	2.6	Gravel	Private Road	
TAR 11.5	12.0	Existing	Temporary	13,300	12.0	3.7	Gravel	Private Road	
TAR 12.8	13.0	Existing/New	Temporary	500	12.0	0.1	Gravel	Private Road/ Industrial Forest	400-foot extension required to connect existing road to pipeline right-of-way.
TAR 13.0	13.5	Existing	Temporary	12,750	12.0	3.5	Gravel	Private Road	
TAR 13.0A	*	Existing	Temporary	16,350	14.0	5.3	Gravel	Private Road	
TAR 13.5	14.0	Existing/New	Temporary	700	12.0	0.2	Gravel	Private Road/ Industrial Forest	200-foot extension required to connect existing road to pipeline right-of-way.
TAR 13.8	14.3	Existing	Temporary	14,600	12.0	4.0	Gravel	Private Road	
TAR 14.3	14.8	Existing	Temporary	800	12.0	0.2	Gravel	Private Road	
TAR 14.5	15.8	Existing/New	Temporary	9,050	12.0	2.5	Gravel	Private Road	Assumes widening of short section (approximately 1,200 feet) of road leading to Milepost 15
TAR 14.8	15.1	Existing	Temporary	1,150	12.0	0.3	Gravel	Private Road	
TAR 15.3	*	Existing	Temporary	46,510	18.0	19.2	Gravel	Private Road	
PAR 15.3	15.3	Existing	Permanent	69,670	18.0	28.8	Gravel	Private Road	
TAR 16.0	16.6	Existing	Temporary	4,350	12.0	1.2	Gravel	Private Road	
TAR 16.5	17.0	Existing	Temporary	8,550	12.0	2.4	Gravel	Private Road	
TAR 17.3	17.8	Existing	Temporary	2,350	12.0	0.6	Gravel	Private Road	
TAR 18.0	18.6	Existing	Temporary	300	12.0	0.1	Gravel	Private Road	
TAR 18.8	19.3	Existing	Temporary	100	12.0	<0.1	Gravel	Private Road	
TAR 19.5	20.1	Existing	Temporary	1,800	12.0	0.5	Gravel and Dirt	Private Road	
TAR 20.3	20.8	Existing	Temporary	4,650	12.0	1.3	Gravel	Private Road	
TAR 20.8	21.3	Existing	Temporary	7,950	12.0	2.2	Gravel	Private Road	
TAR 21.5	*	Existing	Temporary	11,720	12.0	3.2	Gravel	Private Road	

Appendix E5

Access Roads for Oregon LNG Pipeline

Access Road ID	Milepost	Existing/New	Temporary/Permanent	Length (feet)	Width (feet)	Acres	Surface Type	Existing Land Use	Comment/Notes
PAR 21.5	21.5	Existing	Permanent	25,600	12.0	7.1	Gravel	Private Road	
TAR 22.3	22.8	Existing	Temporary	11,900	12.0	3.3	Gravel	Private Road	
TAR 23.0	23.5	Existing	Temporary	7,400	12.0	2.0	Gravel	Private Road	
TAR 23.5	24.0	Existing	Temporary	800	12.0	0.2	Gravel	Private Road	
PAR 23.8	23.8	Existing	Permanent	10,800	12	3.0	Gravel	Private Road	
TAR 24.3	24.7	Existing	Temporary	500	12.0	0.1	Gravel	Private Road	
TAR 24.5	24.5	Existing	Temporary	4,700	12.0	1.3	Gravel	Private Road	
TAR 24.8	25.4	Existing	Temporary	9,150	12.0	2.5	Gravel	Private Road	
TAR 24.8A	*	Existing	Temporary	8,775	12.0	2.4	Gravel	Private Road	
TAR 25.5	26.1	Existing	Temporary	14,300	12.0	3.9	Gravel	Private Road	
TAR 26.0	26.5	Existing	Temporary	800	12.0	0.2	Dirt and Grass	Private Road	
TAR 26.3	26.7	Existing/New	Temporary	1,100	12.0	0.3	Dirt and Grass	Private Road/ Industrial Forest	300-foot extension required to connect existing road to pipeline right-of-way.
TAR 26.8	27.2	Existing/New	Temporary	1,600	12.0	0.4	Gravel	Private Road/ Industrial Forest	1,500-foot extension required to connect existing road to pipeline right-of-way.
TAR 27.0	27.6	Existing/New	Temporary	1,300	12.0	0.4	Gravel	Private Road/ Industrial Forest	300-foot extension required to connect existing road to pipeline right-of-way.
TAR 27.5	27.9	Existing	Temporary	1,550	12.0	0.4	Gravel	Private Road	
TAR 27.8	28.3	Existing	Temporary	31,650	16.0	11.6	Gravel	Private Road	
TAR 27.8A	*	Existing	Temporary	3,000	12.0	0.8	Gravel	Private Road	
TAR 28.0	28.7	Existing	Temporary	2,100	12.00	0.6	Gravel	Private Road	
TAR 28.3	28.8	Existing	Temporary	3,600	16.0	7.8	Gravel	Private Road	
TAR 28.8	29.2	Existing	Temporary	21,100	12.0	5.8	Gravel	Private Road	
TAR 28.8A	29.3	Existing	Temporary	600	12.0	0.2	Gravel	Private Road	
TAR 29.3	29.7	Existing	Temporary	4,900	12.0	1.3	Gravel	Private Road	
TAR 30.0	30.6	Existing	Temporary	9,300	12.0	2.6	Gravel	Private Road	
TAR 30.3	31.0	Existing	Temporary	3,200	12.0	0.9	Gravel	Private Road	
TAR 31.0	31.5	Existing	Temporary	4,900	12.0	1.3	Gravel	Private Road	
TAR 31.3	31.7	Existing	Temporary	9,600	12.0	2.6	Gravel	Private Road	
TAR 31.5	31.9	Existing	Temporary	1,600	12.0	0.4	Gravel	Private Road	
TAR 32.0	32.4	Existing	Temporary	700	12.0	0.2	Gravel	Private Road	
TAR 32.3	32.8	Existing	Temporary	14,100	14.0	4.5	Gravel	Private Road	

Appendix E5

Access Roads for Oregon LNG Pipeline

Access Road ID	Milepost	Existing/New	Temporary/Permanent	Length (feet)	Width (feet)	Acres	Surface Type	Existing Land Use	Comment/Notes
TAR 32.5	33.1	Existing/New	Temporary	1,150	12.0	0.3	Gravel	Private Road/ Industrial Forest	250-foot extension required to connect existing road to pipeline right-of-way.
TAR 35.5	35.2	Existing	Temporary	10,250	12.0	2.8	Gravel	Private Road	
TAR 36.3	36.6	Existing	Temporary	150	12.0	<0.1	Gravel	Private Road	
TAR 36.8	37.2	Existing	Temporary	9,400	12.0	2.6	Gravel	Private Road	
TAR 38.8	39.1	Existing	Temporary	6,950	22.0	3.5	Gravel	Private Road	
TAR 39.3	40.0	Existing	Temporary	5,100	22.0	2.6	Gravel	Private Road	
TAR 40.8	*	Existing	Temporary	2,500	22.0	0.3	Gravel	Private Road	
TAR 41.8	42.3	Existing	Temporary	2,150	22.0	1.1	Gravel	Private Road	
TAR 42.8	43.1	Existing	Temporary	600	22.0	0.3	Gravel	Private Road	
TAR 43.5	44.1	Existing	Temporary	250	25.0	0.1	Gravel	Private Road	
TAR 45.0	45.6	Existing/New	Temporary	950	15.0	0.3	Gravel	Private Road/ Upland Forest	400-foot extension required to connect existing road to pipeline right-of-way.
TAR 46.3	46.7	Existing	Temporary	650	20.0	0.3	Gravel	Private Road	
TAR 48.3	48.3	Existing	Temporary	2,640	12.0	0.7	Gravel	Private Road	
TAR 48.6	48.7	Existing	Temporary	1,056	12.0	0.3	Gravel	Private Road	
TAR 49.2	49.2	Existing	Temporary	20,064	14.0	6.4	Gravel	Private Road	
TAR 50.2	50.2	Existing	Temporary	22,704	14.0	7.3	Gravel	Private Road	
TAR 50.5	50.5	Existing	Temporary	2,640	12.0	0.7	Dirt/Gravel	Private Road	
TAR 51.2	51.2	Existing	Temporary	600	12.0	0.2	Gravel	Private Road	
TAR 51.4	51.4	Existing	Temporary	11,088	12.0	3.1	Gravel	Private Road	
TAR 52.2	52.3	Existing	Temporary	2,640	12.0	0.7	Gravel	Private Road	
TAR 52.7	52.8	Existing/New	Temporary	4,224	12.0	1.2	Dirt/Gravel	Private Road	3,170-foot extension required to connect existing road to proposed pipeline right-of-way.
TAR 53.6	53.6	Existing	Temporary	27,984	16.0	10.3	Gravel	Private Road	
TAR 54.2	54.2	Existing	Temporary	4,224	12.0	1.2	Gravel	Private Road	
TAR 54.9	54.9	Existing	Temporary	7,392	12.0	2.0	Gravel	Private Road	Requires brushing for 6,200 feet
TAR 55.4	55.4	Existing	Temporary	3,168	12.0	0.9	Gravel	Private Road	
TAR 55.8	55.8	Existing	Temporary	9,504	12.0	2.6	Gravel	Private Road	
TAR 56.1	56.1	Existing	Temporary	7,920	12.0	2.2	Gravel	Private Road	
TAR 56.6	56.6	Existing	Temporary	13,200	14.0	4.2	Gravel	Private Road	
TAR 57.0*	N/A	Existing	Temporary	8,976	12.0	2.5	Gravel	Private Road	
TAR 57.6	57.6	Existing	Temporary	16,896	12.0	4.7	Gravel	Private Road	

Appendix E5

Access Roads for Oregon LNG Pipeline

Access Road ID	Milepost	Existing/New	Temporary/Permanent	Length (feet)	Width (feet)	Acres	Surface Type	Existing Land Use	Comment/Notes
TAR 58.2	58.2	Existing	Temporary	2,112	12.0	0.6	Gravel	Private Road	
TAR 58.7	58.7	Existing	Temporary	8,976	12.0	2.5	Gravel	Private Road	
TAR 59.2	59.2	Existing/New	Temporary	24,816	14.0	8.0	Gravel	Private Road	500-foot extension required to connect existing road to proposed pipeline right-of-way.
TAR 60.5	60.5	Existing	Temporary	440	12.0	0.1	Gravel	Private Road	
TAR 62.7	62.7	Existing	Temporary	1,056	12.0	0.3	Gravel	Private Road	
TAR 63.4	63.5	Existing	Temporary	3,168	14.0	1.0	Gravel	Private Road	11-foot-wide, 40-ton bridge
TAR 64.1	64.1	Existing	Temporary	2,112	12.0	0.6	Dirt/Gravel	Private Road	
PAR 64.5*	N/A	Existing	Permanent	53,856	16.0	19.8	Gravel	Public Road	
TAR 64.7	64.8	Existing	Temporary	440	12.0	0.1	Gravel	Private Road	
TAR 65.4	65.4	Existing	Temporary	25,344	12.0	7.0	Gravel	Private Road	
TAR 65.8	65.8	Existing	Temporary	400	12.0	0.1	Gravel	Private Road	
TAR 66.9	66.9	Existing	Temporary	520	12.0	0.1	Gravel	Private Road	
TAR 68.1	68.1	Existing	Temporary	2,640	12.0	0.7	Gravel	Private Road	
PAR 69.1	69.1	Existing	Permanent	3,696	12.0	1.0	Gravel	Public Road	
TAR 69.6	69.6	Existing	Temporary	1,056	12.0	0.3	Gravel	Private Road	
TAR 70.3	70.4	Existing	Temporary	12,144	12.0	3.3	Gravel	Private Road	
TAR 71.1	71.1	Existing	Temporary	35,376	12.0	9.7	Gravel	Private Road	Remove road block at road entrance
TAR 72.0	72.0	Existing	Temporary	2,112	12.0	0.6	Gravel	Private Road	
TAR 72.9	72.9	Existing	Temporary	2,112	12.0	0.6	Gravel	Private Road	
TAR 75.4	75.4	Existing	Temporary	9,504	12.0	2.6	Gravel	Private Road	
TAR 76.3	76.3	Existing	Temporary	31,152	12.0	8.6	Gravel	Private Road	
TAR 76.7	76.7	Existing/New	Temporary	10,560	12.0	2.9	Gravel	Private Road	9.5-foot-wide road for 300 feet
TAR 78.2	78.2	Existing	Temporary	8,976	12.0	2.5	Gravel	Private Road	
TAR 79.3	79.3	Existing	Temporary	11,616	12.0	3.2	Gravel	Private Road	
TAR 81.0	81.0	Existing/New	Temporary	114	12.0	0.03	Gravel	Private Road	90-foot extension required to connect existing road to proposed pipeline right-of-way.
TAR 81.8	81.8	Existing	Temporary	4,752	12.0	1.3	Gravel	Private Road	
TAR 82.9	82.9	Existing	Temporary	650	12.0	0.2	Dirt/Grass	Private Road	Improve Farm Road
TAR 86.2	86.2	Existing	Temporary	548	12.0	0.2	Gravel/Dirt	Private Road	
TAR 86.8	86.8	Existing	Temporary	550	12.0	0.2	Gravel	Private Road	

* = Road does not intersect pipeline right-of-way.

N/A = not applicable

Precision loss may occur because of rounding.

APPENDIX E6

SITE-SPECIFIC RESIDENTIAL CONSTRUCTION PLANS

PRELIMINARY
NOT FOR CONSTRUCTION



UNPAVED RD

HOUSE

70' x 440'
ATWS

PROPOSED 36" PIPELINE

B 588+00

B 590+00

B 592+00

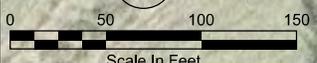
30' PROP. PERM. ESMT.
5' TWS

B 594+00

POLE BARN

POLE BARN

UNKNOWN STRUCTURE
(NON-RESIDENTIAL)



Scale In Feet

LEGEND

	TWS (TEMPORARY WORK SPACE)
	ATWS (ADDITIONAL TEMPORARY WORK SPACE)
	PERMANENT EASEMENT LINE
	ALIGNMENT PI (POINT OF INTERSECTION)
	PROPERTY LINE
	OVERHEAD POWER LINE
	PROPOSED ALIGNMENT MILEPOST

Mitigation Steps:

- 1) Meet with land owner(s) of impacted residence at the project site at least 21 days prior to beginning of construction.
 - a) Review construction procedures, locations of permanent and temporary easements, and ATWS.
 - b) Identify trees, other vegetation, and objects that land owner(s) desire to have protected during construction. To the extent practical, protect these items during construction, or move and replace after construction if possible.
- 2) At least 7 days prior to construction, survey locations of easements and ATWS and mark locations using wooden laths or other markers.
- 3) Conduct a preconstruction survey of the impacted residence. Preconstruction survey shall include photographs and video of vegetation, fences, driveways, stone walls, structures, residences, sidewalks, and water systems preconstruction conditions.
- 4) Erect orange barrier fencing and erosion control features that include, at a minimum, silt fence inside the boundaries of the ATWS and temporary easement nearest the pole barns and house.
- 5) Conduct construction activities between Stations B586+00 and B596+00 only between the hours of 8 a.m. and 5 p.m.
- 6) Upon completion of pipeline installation, reseed disturbed ground, repair access roads, graveled or paved areas, sidewalks, fences, stone walls, structures, water supply systems, and septic systems, and conduct other mitigation to reestablish preconstruction conditions.

ES00601311395PDX 199863.RR.14

SCALE
1"=100'
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH THEN ADJUST SCALE ACCORDINGLY

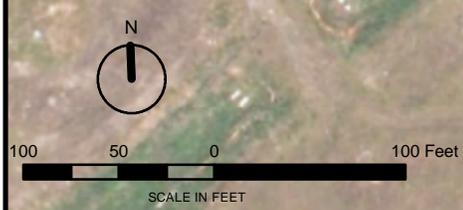
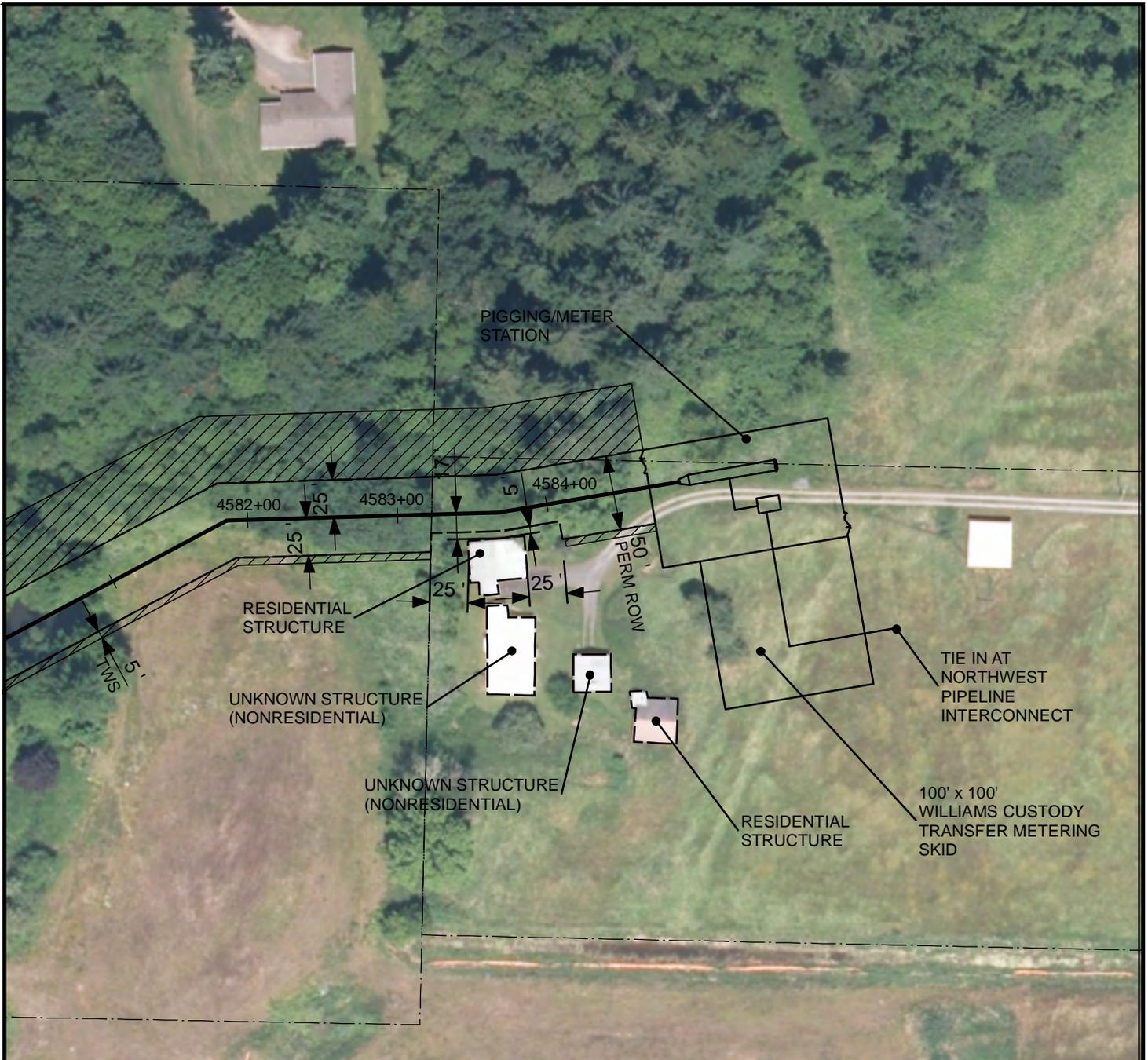


OREGON PIPELINE COMPANY
PIPELINE
WARRENTON TO WOODLAND

RESIDENTIAL MITIGATION PLAN
MP 11.2

NO.	DATE	REVISION	BY	APVD
DSGN	T POTTER	DR	J PFEIFER	CHK
			M BRICKER	APVD
			XXX	

PROJ: 355036	DATE: JUNE 26, 2009	DWG: C-529	REVISION: 1
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Mitigation Steps:

- 1) Meet with land owner(s) of impacted residence at the Project site at least 21 days prior to beginning of construction.
 - a) Review construction procedures, locations of permanent and temporary easements, and ATWS.
 - b) Identify trees, other vegetation, and objects that land owner(s) desire to have protected during construction. To the extent practical, protect these items during construction, or move and replace after construction if possible.
- 2) At least 7 days prior to construction, survey locations of easements and ATWS and mark locations using wooden laths or other markers.
- 3) Conduct a preconstruction survey of the impacted residence. Preconstruction survey shall include photographs and video of vegetation, fences, driveways, stone walls, structures, residences, sidewalks, and water systems preconstruction conditions.
- 4) Erect orange barrier fencing and erosion control features that include, at a minimum, silt fence inside the boundaries of the ATWS and temporary easement nearest the pole barns and house.
- 5) Construct alternate access road into impacted residences.
- 6) Unless other arrangements are made with the impacted property owner(s), conduct construction activities between Stations 4580+00 and Northwest Pipeline Interconnect, including all construction activities associated with the pigging/meter station and Williams Custody Transfer Metering skid between the hours of 8 a.m. and 5 p.m.
- 7) Upon completion of pipeline installation, reseed disturbed ground, repair access roads, graveled or paved areas, sidewalks, fences, stone walls, structures, water supply systems, and septic systems, and conduct other mitigation to reestablish preconstruction conditions.

Legend	
	ATWS (ADDITIONAL TEMPORARY WORKSPACE)
	TWS (TEMPORARY WORKSPACE)
	PERMANENT EASEMENT LINE
	ALIGNMENT PI
	PROPERTY LINE

NO.		DATE		REVISION		BY		APVD.	
DSGN.	PS	DR	MC	CHK		APVD.	EC		

OREGON PIPELINE COMPANY
 PIPELINE
 WARRENTON TO WOODLAND

RESIDENTIAL MITIGATION PLAN
MP 86.6

PROJ. 199863 DATE: MARCH 27, 2014 DWG: C-533 REVISION: 1

