Pre-Application Request

Cascade Renewable Transmission

The Dalles to Portland
December 2023

Prepared for
Cascade Renewable Transmission, LLC

Submitted to
Washington State Energy Facility Site Evaluation Council

WAC 463-61-050

Preapplication process.

The preapplication request shall be filed with EFSEC at the EFSEC's office and contain the following information:

(1) The name and mailing address of the preapplicant, including a contact name, address, telephone number, and email address of the contact person.

(2) A description of the proposed transmission route and corridor, including location maps and plot plans to scale, showing all major components, including a description of zoning and site availability for any permanent facility, and including whether and to what extent the proposed project is located within a national interest electric transmission corridor.

(3) A description of the proposed right of way width for the transmission line, including the extent a new right of way will be required or an existing right of way will be widened.

(4) A description of the proposed transmission line structures and their dimensions.

(5) A description of the schedule desired for the project, including the expected application filing date, the expected beginning date for construction, and the expected project operational date.

(6) A list of the federal, state, tribal and local government entities, including mailing addresses, contact names, telephone numbers and email addresses that have possible permitting responsibilities for the project (if the project proponents were not to choose the EFSEC review) or ownership of land on which the project will be located. The list shall also identify governmental entities that have requested the preapplicant to notify them of any application or preapplication for site certification.

(7) Information or data that may be available at a later date.

(8) A summary and timeline of any initial consultation to explain the proposal and/or request input from the EFSEC staff, federal, state and local agencies, tribal governments, property owners, and interested person.

(9) A public participation plan that:

(a) Identifies specific tools and actions to facilitate stakeholder communications and public information, including an up-to-date project website and a readily accessible, single point of contact within the company;

(b) Lists all central locations in each local government throughout the project area where the preapplicant shall provide copies of all their filings related to the proposed project; and

(c) Includes a description and schedule explaining how the preapplicant intends to respond to requests for information from the public as well as federal, state, local, and tribal agencies or any other legal entities that could have permitting requirements if the project proponents were not to choose the EFSEC review.

(10) A negotiation process acceptable to EFSEC between the preapplicant and the cities, towns, and/or counties through which the proposed transmission line corridor will be located except where the cities, towns, and/or counties have designated transmission corridors through their land use plans or zoning ordinances.

[Statutory Authority: Chapter **80.50** RCW and RCW **80.50.040**. WSR 08-21-092, § 463-61-050, filed 10/15/08, effective 11/15/08.]

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Acronyms

AC	alternating current
BPA	Bonneville Power Administration
CRT	Cascade Renewable Transmission, LLC (Preapplicant)
DC	direct current
DOE	U.S. Department of Energy
HDD	horizontal directional drilling
HDPE	high-density polyethylene
HVAC	high-voltage alternating current
HVDC	high-voltage direct current
IEC	International Electrotechnical Commission
kV	kilovolt
mm^2	square millimeter
MW	megawatt
OR EFSC	Oregon Energy Facility Siting Council
PE	polyethylene
PGE	Portland General Electric
PUD	public utility district
ROD	Record of Decision
ROW	right-of-way
USACE	U.S. Army Corps of Engineers
VSC	voltage source conversion
WAC	Washington Administrative Code
WA EFSEC	Washington State Energy Facility Site Evaluation Council
WSDOT	Washington State Department of Transportation

Introduction

This pre-application request has been prepared for the Cascade Renewable Transmission Project (Project) being proposed by Cascade Renewable Transmission, LLC (CRT; Preapplicant), as required by the Washington Administrative Code (WAC) Chapter 463-61-050.

1. Name and Mailing Address of the Preapplicant

(WAC 463-61-050(1))

(1) The name and mailing address of the preapplicant, including a contact name, address, telephone number, and email address of the contact person.

The Preapplicant is CRT, an entity formed in the state of New York on May 27, 2020, for the purpose of developing the Project under a Joint Development Agreement between PB CRTS, LLC and Sun2o Partners, LLC; PB CRTS is the managing partner of the development company.

Name and mailing address of Preapplicant:

Christopher Hocker, Vice President
Cascade Renewable Transmission, LLC
501 Kings Highway East, Suite 300
Fairfield, CT 06825
Chocker@PowerBridge.us
(203) 416-5590

2. Description of the Proposed Transmission Route and Corridor

(WAC 463-61-050(2))

(2) A description of the proposed transmission route and corridor, including location maps and plot plans to scale, showing all major components, including a description of zoning and site availability for any permanent facility, and including whether and to what extent the proposed project is located within a national interest electric transmission corridor.

The Project is proposed within both Washington and Oregon and is not located within a national interest electric transmission corridor as defined by the U.S. Department of Energy (DOE; energy.gov).

The Project is a high-voltage direct current (HVDC) electric transmission facility interconnecting the existing Bonneville Power Administration (BPA) Big Eddy substation located near The Dalles, Oregon, and the existing Portland General Electric (PGE) Harborton substation located in Portland, Oregon (Figure 1 in Appendix A).

Big Eddy (Eastern Interconnection) is a 500-kV alternating current (AC) substation. Harborton (Western Interconnection) is a 230-kV AC substation. The 320- or 400-kilovolt (kV) HVDC transmission facility would be energized to 1,100-megawatt (MW).

From the interconnections, the cable bundle would be buried underground in Oregon to the edge of the Columbia River on each end, and buried in the bed of the Columbia River in Oregon and Washington. The aboveground visible structures (converter stations and short segment of overhead transmission) are proposed in Oregon. The on-land Project component in Washington includes approximately 7.5 miles of underground buried cable to bypass the dam, locks, juvenile fish passage, and tribal fishing areas at the Bonneville Dam.

A detailed project description with maps is included as Appendix A.

The on-land component of the Project in Washington is located in public right-of-way (ROW) along Washington State Route 14 (SR 14), Ash Lake Road, and Fort Cascades Drive. These areas are not zoned by Skamania County, the City of North Bonneville, or the City of Stevenson.

3. Description of the Proposed Right-of-Way (ROW)

(WAC 463-61-050(3))

(3) A description of the proposed right of way width for the transmission line, including the extent a new right of way will be required or an existing right of way will be widened.

The Project corridor is proposed for construction and operation in areas of existing road ROWs for the underground high-voltage alternative current (HVAC) and HVDC transmission lines to the extent possible. New ROW would be requested from BPA for the approximately 500 feet of overhead 500-kV AC transmission wire from Big Eddy substation to the eastern converter station (in Oregon). In Washington, for the on-land portion, the Preapplicant would seek ROWs with the Washington State Department of Transportation (WSDOT) and local road jurisdictions to place the underground transmission cable in existing road ROWs in Washington. The Preapplicant anticipates requesting a 12-foot-wide temporary easement for construction and a 2.5-foot-wide and 4.5-foot-deep permanent subsurface ROW. For the in-river portion, the Preapplicant would apply for an authorization from the Washington State Department of Natural Resources (DNR) through the Joint Aquatics Resources Permit Application (JARPA) process. A DNR authorization is a legal contract that outlines the terms and conditions of the use and convey certain property rights to the user in exchange for rent. The width of the in-river authorization is yet to be determined.

4. Description of the Proposed Transmission Line Structures and Dimensions

(WAC 463-61-050(4))

(4) A description of the proposed transmission line structures and their dimensions.

The approximate length of the transmission line would be 98.5 miles, comprised of the following.

HVAC Transmission

- Approximately 500 feet of 500-kV overhead HVAC transmission line to connect the Big Eddy substation to the eastern converter station in Oregon (the eastern terminus). This short span of overhead transmission line would be supported by two new lattice structures

approximately 80 feet wide and 60 feet tall. One lattice structure would be located in the Big Eddy substation and one lattice structure would be within the eastern converter station.

- Approximately 2.7 miles of underground HVAC transmission cable to connect the Harborton substation to the western converter station (western terminus). The 2.7 miles is comprised of 2.2 miles underground, 0.5 miles horizontal directional drilling [HDD] under the Willamette River, and 0.25 miles HDD under the Columbia Slough in Oregon.

HVDC Transmission

An estimated 95.8 miles of 320kV or 400-kV (1,100 MW) HVDC transmission cable would be installed below ground or buried in the Columbia River bed. HDD or similar trenchless technology would be used to transition the transmission cable bundle from land to water.

- Approximately 4.5 miles of underground HVDC transmission cable to from the eastern converter station to the edge of the Columbia River in Oregon.
- Approximately 4.4 miles of underground HVDC transmission cable from the edge of the Columbia River to the western converter station in Oregon.
- Approximately 7.6 miles of underground HVDC transmission cable to avoid Bonneville Locks and Dam in Washington.
- Approximately 79.3 miles of in-river HVDC transmission cable buried in riverbed: 46.7 miles buried in the Columbia River bed in Oregon and 32.6 miles buried in the Columbia River bed in Washington.

The full description of the proposed transmission structures and their dimensions are included in the detailed project description in Appendix A.

5. Description of the Schedule

(WAC 463-61-050(5))

(5) A description of the schedule desired for the project, including the expected application filing date, the expected beginning date for construction, and the expected project operational date.

The Preapplicant anticipates submitting the application to Washington Energy Facility Site Evaluation Council (WA EFSEC) in early to mid-2024. Facility construction is anticipated to begin in 2026, subject to issuance of a site certificate from the Oregon Energy Facility Siting Council (OR EFSC), site certification from the Washington Energy Facility Site Evaluation Council (WA EFSEC), and a record of decision (ROD) from the U.S. Army Corps of Engineers (USACE). The start of commercial operation is anticipated by the end of 2028, though the Preapplicant would try to bring the facility online earlier, if achievable. The construction period for the entire project would be 2.5 years. The converter stations would be built at the same time beginning in July 2026 and finishing in December 2028. Construction of the underground transmission cable in Washington would take approximately 5 months, from December 2027 to April 2028. The in-river transmission cable installation would occur in two campaigns from roughly November 2026 to February 2027 and

November 2027 to February 2028 to follow the in-water work windows on the Columbia River for Oregon and Washington.

6. List of Federal, State, Tribal and Local Government Entities with Permitting Responsibilities

(WAC 463-61-050(6))

(6) A list of the federal, state, tribal and local government entities, including mailing addresses, contact names, telephone numbers and email addresses that have possible permitting responsibilities for the project (if the project proponents were not to choose the EFSEC review) or ownership of land on which the project will be located. The list shall also identify governmental entities that have requested the preapplicant to notify them of any application or preapplication for site certification.

Table 1 identifies the federal, state, and local government permits and authorizations required for facility construction and operation. There are no tribal entities who would have permitting responsibilities. The Preapplicant would conduct federal and state permitting efforts concurrently to provide consistency and avoid duplication of efforts. No governmental entities have requested the Preapplicant notify them of application or preapplication for site certification.

The Preapplicant has initiated an agency coordination process, which is aimed at facilitating efficient and consistent information sharing regarding the proposed Project, enabling the Preapplicant to address questions and issues shared, and providing a forum for the early identification and resolution of future agency questions and potential issues related to the Project.

Table 1. Permits or Other Approvals Required for Construction and Operation of the Facility.

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
Federal Permits		
U.S. Army Corps of Engineers (USACE) Brielle Cummings Regulatory Project Manager 503-808-4387 Brielle.K.Cummings@usace.army.mil	Record of Decision (ROD) / National Environmental Policy Act (NEPA) Compliance Section 106 of the National Historic Preservation Act (NHPA) compliance	NEPA, Section 102 (42 United States Code [USC] § 4332); 40 Code of Federal Regulations [CFR] § 1500 Description: Project that includes a federal action (approving permits). Lead federal agency is required to consult with State Historic Preservation Officer(s), Indian Tribes, representatives of local governments, applicants for federal permits/approvals, and other interested parties regarding the findings and determinations made during the NHPA Section 106 process (as outlined in 36 CFR 800).
USACE/Oregon Department of Environmental Quality (ODEQ) Water Quality Program Sara Slater, 401 Program Coordinator 700 NE Multnomah Street, Suite 600 Portland, OR 97323 (541) 633-2007 Slater.Sara@deq.state.or.us	Section 401 of the Clean Water Act (CWA), Water Quality Certification	CWA, Section 401 (33 USC § 1341); Oregon Administrative Rule (OAR) Chapter 340, Division 48 Water quality certification is required for projects that are processed under the USACE Section 404 Nationwide Permits.
USACE Portland District Melody White, Multnomah County and Portland Harbor Regulatory Contact P.O. Box 2946 Portland, OR 97208-2946 (503) 808-4385 Melody.J.White@usace.army.mil	Section 404 of the CWA/ Section 10 of the Rivers and Harbors Act (RHA)	CWA, Section 404 (33 USC § 1344); 33 CFR §§ 320, 323, 325-328, and 330 A Section 404 permit will be required if dredge or fill occurs in waters of the United States. Generally, a Section 404 permit requires a CWA Section 401, Water Quality Certification. Section 10 requires authorization for any work in or over navigable water of the United States.

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
USACE Portland District Sally Bird-Gauvin, Section 408 Project Manager P.O. Box 2946 Portland, OR 97208-2946 (503) 808-4765 Sally.A.Bird-Gauvin@usace.army.mil	Section 14 of the RHA (Section 408 Permission) Archaeological Resources Protection Act (ARPA) permit	RHA, Section 14 (33 USC § 408, Section 408) Permission is required for the permanent or temporary action that builds upon, alters, improves, moves, occupies or otherwise affects the usefulness of any USACE Civil Works project. ARPA (16 U.S.C. §470aa (b)) permit is required to perform archaeological investigations on federal lands.
Bonneville Power Administration (BPA) BPA Transmission Services Contact: Interconnection Administrator (360) 619-6047 interconnection@bpa.gov	Interconnection Agreement ARPA Permit	Interconnection services to the Federal Columbia River Transmission System and interrelated matters. ARPA (16 U.S.C. §470aa (b)) permit is required to perform archaeological investigations on federal lands.
United States Forest Service (USFS) Region 6 (541) 308-1700 SM.FS.r6crgnsawfb@usda.gov	Special Use/ Utility Permit	Work within the National Scenic Area.[1]
State Permits		
Washington State Energy Facility Site Evaluation Council (WA EFSEC) Sonia Bumpus, EFSEC Director Sonia.bumpus@efsec.wa.gov 360-664-1363	Energy Facility Site Certification State Environmental Policy Act (SEPA)	"Opt-in" to WA EFSEC jurisdiction: electrical transmission facilities: (A) of a nominal voltage of at least 115-kV and (B) located in more than one jurisdiction that has promulgated land use plans or zoning ordinances. Revised Code of Washington (RCW) 43.21C requires state and local agencies to identify and analyze the adverse environmental impacts of a proposal before making a decision on that proposal (RCW 43.21C.030)

[1] No USFS-managed lands are crossed by the Project and accordingly, an ARPA permit from USFS is not required for archaeological investigations.

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
Washington State Department of Ecology (Ecology) Loree'L Randall Shoreland & Env Assistant PM Ecyrefedpermits@ecy.wa.gov 360-485-2796	Section 401 Water Quality Certification	When a federal permit is required to conduct any activity that might result in discharge of dredged or fill material into waters or wetlands. Administered by WA EFSEC.
Ecology Joyce Smith Permit Administrator 360-407-6858 joyce.smith@ecy.wa.gov	NPDES Construction Stormwater General Permit	Soil disturbing activities of one acre and more and may discharge stormwater to surface waters of the state, which includes storm drains, ditches, wetlands, creeks, rivers, lakes and marine waters. Administered by WA EFSEC.
Washington State Department of Archaeology and Historic Preservation (DAHP)[2] DAHP Section 106 Review Group 106@dahp.wa.gov DAHP SEPA Review Group sepa@dahp.wa.gov	NHPA Section 106 Review and Concurrence SEPA Review Archaeological Site Alteration and Excavation Permit	Consult with USACE (lead federal agency) under NHPA Section 106 (36 CFR Part 800) regarding identification of historic properties and determinations of project effects. Review potential project impacts on archaeological, historical, and cultural resources under SEPA (RCW 21.43c) in coordination with EFSEC (lead state agency). Any alteration to an archaeological site requires an Archaeological Site Alteration and Excavation Permit issued by DAHP (RCW 27.44 and RCW 27.53). If needed, the Preapplicant will obtain a permit from DAHP.

[2] The DAHP is an independent Washington state government agency that houses the Washington State Historic Preservation Officer (SHPO).

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
Washington State Department of Fish and Wildlife (WDFW) – Region 5 Amaia Smith (Skamania and Clark Counties) 360-839-5308 Amaia.Smith@dfw.wa.gov Amber Johnson (Klickitat County) 360-701-2738 Amber.johnson@dfw.wa.gov	Hydraulic Project Approval	Any form of work that uses, diverts, obstructs, or changes the natural flow or bed of any fresh water or saltwater of the state (over, under, or within). This includes bed reconfiguration, all construction or other work waterward, under and over the ordinary high water mark (OHWM), including wetlands, dry channels, and may include projects landward of the OHWM (e.g., activities outside the OHWM that will directly impact fish life and habitat, falling trees into streams or lakes, bridge maintenance, dike construction, etc.). Administered by WA EFSEC.
Washington State Department of Natural Resources (WDNR) Rivers District 360-577-2025 aquaticleasing.rivers@dnr.wa.gov	Aquatic Lands Use Authorization or Aquatic Lands Lease	Most activities taking place on state-owned aquatic lands (including harbors, tidelands, shorelands, and beds of navigable waters) may require an authorization, such as a license, lease, rights-of-entry, or easement lease. These state-owned aquatic lands include the coast, bedlands, lakes, rivers and Puget Sound marine areas. Administered by WA EFSEC.
Washington State Department of Transportation (WSDOT) – Southwest Region Dennis Noyes Utilities Project Delivery Manager, Utility Permit & Franchise Engineer Dennis.Noyes@wsdot.wa.gov 360-905-2298	General Permit	Work within WSDOT right-of-way.
ODEQ Sara Slater 401 Program Coordinator 541-633-2007 Slater.Sara@deq.state.or.us	CWA, Section 402, National Pollutant Discharge Elimination System (NPDES) 1200-C	A NPDES construction stormwater permit is required for construction activities that will disturb one or more acres of land.
Oregon Department of State Lands (ODSL) Jevra Brown Aquatic Resource Planner Jevra.Brown@state.or.us 503-986-5297	Removal-Fill Permit	Activities involving filling or removing 50 cubic yards or more of material in a wetland or waterway.
ODSL Jevra Brown Aquatic Resource Planner Jevra.Brown@state.or.us 503-986-5297	Waterway Authorization for submerged land leasing	Use of the state-owned submerged and submersible lands requires authorization from ODSL.

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
Oregon Energy Facility Site Council (OR EFSC) energy.siting@oregon.gov	Site Certificate	Transmission lines over 230 kilovolts (kV), more than 10 miles long, and that are to be constructed in more than one city or county of the state.
Oregon Parks and Recreation Department Oregon Heritage/State Historic Preservation Office (503) 986-0690 oregon.heritage@oregon.gov	Scenic Waterways Approval	Projects adjacent to designated scenic waterway
Oregon SHPO Oregon Parks and Recreation Department Oregon Heritage/State Historic Preservation Office John Pouley, State Archaeologist (503) 986-0577 John.Pouley@oregon.gov	Archaeological Excavation Permit NHPA Section 106 Review and Concurrence	Oregon Revised Statutes (ORS) Chapter 97, 358, 390; OAR Chapter 736, Division 51 Subsurface archaeological survey on non-federal public lands and collection of artifacts on non-federal public and private lands require a permit issued by Oregon Parks and Recreation Department (ORS390.235 and 358.905-961). If needed, the Preapplicant will obtain the permit from SHPO. Consult with USACE (lead federal agency) under NHPA Section 106 (36 CFR Part 800) regarding identification of historic properties and determinations of project effects.
Oregon Department of Transportation (ODOT) District 9, The Dalles Dan.T.SHANAHAN@odot.oregon.gov 1313 Bret Clodfelter Way The Dalles, OR 97058 541-296-2927	Encroachment Permit - Utility	Activity along a state highway, or an activity that requires the use of the state highway for other than normal transportation. Utility permit is a permit for the installation, maintenance, and operation of utility facilities such as pipelines, pole lines, buried cable, and conduits upon state highway right of way (work within Interstate 84 (I-84) corridor) If needed, the Preapplicant's contractor will obtain necessary permits from ODOT.

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
Local Permits in Washington		
City of North Bonneville Planning Department Richard Hall, Planning Advisor (509) 427-8182 rhall@northbonneville.net	Shoreline Substantial Development Permit (Type III)	Work within shoreline jurisdiction or shoreline buffer. The Preapplicant will seek determination of compliance with local land use standards under the WA EFSEC process.
City of North Bonneville Planning Department Richard Hall, Planning Advisor (509) 427-8182 rhall@northbonneville.net	Type II Process	Approval of use within a zoning designation. The Preapplicant will seek determination of compliance with local land use standards under the WA EFSEC process.
City of North Bonneville Planning Department Richard Hall, Planning Advisor (509) 427-8182 rhall@northbonneville.net	Building Permit	Construction of any structure. The Preapplicant will seek determination of compliance with local land use standards under the WA EFSEC process.
City of North Bonneville Planning Department Richard Hall, Planning Advisor (509) 427-8182 rhall@northbonneville.net	Grading Permit (Type I)	Land preparation (clearing and grading). The Preapplicant will seek determination of compliance with local land use standards under the WA EFSEC process.
Skamania County Skamania County Community Development Department Alan Peters, Community Development Director (509) 427-3906 apeters@co.skamania.wa.us	Shoreline Management Program Compliance	Work within Columbia River. The Preapplicant will seek determination of compliance with local land use standards under the WA EFSEC process.
Local Permits in Oregon		
City of Portland Bureau of Development Services, Land Use Review 1900 SW Fourth Avenue bds@portlandoregon.gov (503) 823-7300	Greenway Review (Type II Procedure)	City of Portland City Code (PCC), Title 33, Planning and Zoning, 33.440.030(B) Applies to all land and fills and structures in water within the Willamette Greenway with River General, River Industrial and River Water Quality overlay zones.

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
City of Portland Bureau of Development Services, Plan Review 1900 SW Fourth Avenue bds@portlandoregon.gov (503) 823-7300	Site Development Review and Building Permit	A development permit is required for earthwork resulting in exposure of bare soil or excavation or fill greater than 10 cubic yards. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of Portland.
City of Portland Bureau of Development Services, Trade Permits bds@portlandoregon.gov (503) 823-7300	Mechanical Permit	New installations, additions, or alteration to mechanical systems. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of Portland.
City of Portland Bureau of Development Services, Trade Permits bds@portlandoregon.gov (503) 823-7300	Electrical Permit	New installations, additions, or alteration to electrical systems. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of Portland.
City of Portland Portland Bureau of Transportation (PBOT) pbotutilitypermits@portlandoregon.gov (503) 823-5185	Utility Street Opening Permit	PCC Title 17.24.10, and City Policy TRN 10.19 Required when city streets must be opened by a franchised utility for the installation, reconstruction, maintenance or abandonment of facilities. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of Portland.
City of The Dalles Community Development Department Dawn Hert Community Development Department dhert@ci.the-dalles.or.us	Compliance with Article 5.100	Approval of use within a Community Facilities Overly (CFO) zoning district. The Preapplicant will seek an OR EFSC determination of compliance with local land use standards under ORS 469.504(1)(b).

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
City of The Dalles Community Development Department Dawn Hert Community Development Department dhert@ci.the-dalles.or.us	Physical Constraints Permit	All development that includes grading. Can be combined with land use permit review. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of The Dalles.
City of The Dalles Department of Public Works publicworks@ci.the-dalles.or.us (541) 980-7703	Right-of-Way Construction Permit	Any construction within City Right-of-Way. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of tThe Dalles.
City of The Dalles Community Development Department Alice Cannon acannon@ci.the-dalles.or.us (541) 296-5481	Building Permit	Construction of any structure. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of The Dalles.
City of The Dalles Community Development Department Alice Cannon acannon@ci.the-dalles.or.us (541) 296-5481	Grading Permit	Ground disturbance; State NPDES 1200-C Erosion Control Permit if area of disturbance is one-acre or greater. The Preapplicant's third-party contractor will obtain ancillary permits (as needed) directly from the City of The Dalles.
Wasco County Wasco County Planning Department Kelly Howsley Glover, Planning Director 2705 East Second Street, The Dalles, OR 97058 (541) 506-2560 Kellyg@co.wasco.or.us	Type II review for a Utility Facility Necessary for Public Service	Approval of use within a zoning designation. The Preapplicant will seek an OR EFSC determination of compliance with local land use standards under ORS 469.504(1)(b).
Wasco County Wasco County Planning Department Kelly Howsley Glover kellyg@co.wasco.or.us (541)506-2560	Grading Permit	Grading that involves more than 100 cubic yards; on a slope or more than 200 cubic yards aboveground visible from key viewing areas. The Preapplicant will seek an OR EFSC determination of compliance with local land use standards under ORS 469.504(1)(b).

Responsible Agency/ Agency Contact Information	Permit	Authority/Description
Wasco County Wasco County Building Codes Services Kylee Ruby, Permit Technician 541-506-2650 kyleer@co.wasco.or.us	Structural Permit	Construction of any structure. The Preapplicant will seek an OR EFSC determination of compliance with local land use standards under ORS 469.504(1)(b).
Wasco County Wasco County Building Codes Services Kylee Ruby, Permit Technician 541-506-2650 kyleer@co.wasco.or.us	Electrical Permit	Work that requires electrical service. The Preapplicant will seek an OR EFSC determination of compliance with local land use standards under ORS 469.504(1)(b).

7. Information Available Later

(WAC 463-61-050(7))

(7) Information or data that may be available at a later date.

Table 2 lists the environmental studies and technical reports that have been prepared or will be prepared for this proposed Project. All studies that are currently being developed will be made available to the appropriate agencies upon their completion. Additional studies may be required based on what initial studies reveal.

Table 2. Environmental Studies and Technical Reports

Environmental Studies and Technical Reports	Survey/Report	Extent of Area Addressed in Study/Report	Report Status
General	Phase I Environmental Site Assessment	Eastern and western converter station locations	Will be completed prior to construction
Earth	Sampling and Analysis Plan (required by the USACE Portland Sediment Evaluation Team)	Surveys to include soil borings conducted in river	Anticipated completion by first Quarter (Q1) 2024
Earth	Geotechnical Investigation Report	Surveys to include soil borings conducted both in river and at HDD drilling areas and converter station locations.	Will be completed prior to construction
Earth	Sediment Collection and Testing	Sediment sampling within the Columbia River to characterize sediment quality.	In progress, anticipated completion by Q1 2024
Wetlands	Wetlands and Other Waters Delineation Report	Surveys will include field delineation to identify wetlands at converter station sites and land-based cable locations and evaluate potential temporary or permanent impacts to wetlands.	In progress, anticipated completion by Q1 2024

Environmental Studies and Technical Reports	Survey/Report	Extent of Area Addressed in Study/Report	Report Status
Plants	Botany and Habitat Survey Report	Surveys will include site visits and general habitat assessment at land to water transition areas, near shore areas.	In progress, anticipated completion by Q1 2024
Plants and Animals	Site Habitat Characterization Study	Surveys to be conducted at converter station sites and land-based cable locations.	In progress, anticipated completion by Q1 2024
Socioeconomic Effects	Economic Impacts Assessment of the Cascade Renewable Transmission Project	Skamania County	In progress, anticipated completion by Q1 2024.
Cultural / Historic	Cultural Resources Investigations	Surveys to be performed in the area of potential effects inclusive of converter station sites and land-based cable locations.	In progress, anticipated completion by Q2 2024

8. Initial Consultation Summary

(WAC 463-61-050(8))

(8) A summary and timeline of any initial consultation to explain the proposal and/or request input from the EFSEC staff, federal, state and local agencies, tribal governments, property owners, and interested person.

A summary and timeline of initial consultation and outreach activities to explain the proposed Project is outlined in Table 3.

Table 3. Initial Consultation Summary and Timeline

Date	Initial Outreach Activity
Federal Agencies	
March 2020	The Preapplicant introduced the project to Melody White, Team Lead, Regulatory Branch, U.S. Army Corps of Engineers (USACE) – Portland District.
October 2021	The Preapplicant introduced the project during a virtual meeting with USACE staff representing offices of Real Estate, Navigation, Office of Counsel, Program Management, Permitting, and Archeology.
February 2023	Preapplicant met with Sally Bird Gauvin and Kate Mott at USACE offices in Portland to provide a project update.
March 2023	The Preapplicant introduced the project during a virtual meeting with the National Marine Fisheries Service (NMFS). Discussions involved the proposed route, in-water work timing, and areas of concern for fish impacts.
	Via email and virtual meeting, the Preapplicant discussed with the U.S. Fish and Wildlife Service (USFWS), streaked horned lark on Hayden Island and shoreline areas near the Portland International Airport.
September 2023	The Preapplicant held the first virtual multi-agency coordination call. Federal agencies in attendance included USACE, BPA, USFS, USFWS, and NOAA.
	The Preapplicant and its consultant met with the USACE to discuss the planned cultural resources survey.

Date	Initial Outreach Activity
State Agencies in Washington	
October 2019	The Preapplicant met with Washington State Department of Transportation (WSDOT) staff to introduce the project and discuss use of SR 14.
May 2021	The Preapplicant met with Washington State Department of Archaeology and Historic Preservation (DAHP) State Historic Preservation Officer/Director to introduce the project.
October 2021	The Preapplicant met with Washington Utilities and Transportation Commission (UTC) Commissioner and Sr. Commission policy advisor to introduce the project.
December 2021	The Preapplicant met Washington Energy Facility Site Evaluation Council (WA EFSEC) staff to introduce the project and request input.
September 2022	The Preapplicant met with Washington UTC commissioner to provide a project update.
October 2022	Preapplicant provided a project update to WA EFSEC staff
November 2022	Preapplicant provided a project overview to Washington UTC and Department of Commerce.
March 2023	The Preapplicant met with WA EFSEC to discuss the project and new preapplication process for siting electrical transmission facilities.
	The Preapplicant introduced the project during a virtual meeting with Washington Department of Fish and Wildlife (WDFW). Discussions included the proposed route, in-water work, and areas of concern for fish impacts.
September 2023	The Preapplicant held the first virtual multi-agency coordination call. Federal agencies in attendance included ODOT, WSDOT, and the Washington State Department of Ecology (Ecology).
State Agencies in Oregon	
February 2021	Preapplicant introduced the project to Oregon Department of Energy (ODOE) Associate Director Strategic Engagement and Development/Tribal Liaison with Ruchi Sadhir,
October 2021	The Preapplicant met with Oregon Public Utility Commission Program Director and Policy Advisor to introduce the project.
November 2021	The Preapplicant met with the ODOE staff to introduce the project and request input.
January 2022	Preapplicant presented an overview of the project and answered questions at a meeting of the Oregon Energy Facility Siting Council (OR EFSC).
April 2022	The Preapplicant reached out to Oregon Bureau of Indian Affairs to request identification of Oregon tribes who may hold interest in the project (ODOE EFSC requirement).
June 2022	The Preapplicant met with Oregon Public Utility Commission (PUC) to provide a project update.
	Preapplicant met with ODOE Electric Markets and Policy Group and provided a project introduction.
	The Preapplicant met with the Oregon Department of Transportation (ODOT) to solicit input on underground route in The Dalles, received communication affirming D9 support of proposed underground route.
September 2022	The Preapplicant met with Oregon PUC commissioner to provide a project update.
	The Preapplicant met with Oregon Legislature Senate Interim Committee on Energy & Environment to introduce the project.
November 2022	Preapplicant met with ODOE Electric Markets and Policy Group and provided a project update.
March 2023	The Preapplicant submitted a Notice of Intent (NOI) to file an application with the ODOE OR EFSC. The ODOE conducted public meetings regarding the NOI on May 2 and 3, 2023.
April 2023	The Preapplicant introduced the project during a virtual meeting with the Oregon Department of Fish and Wildlife (ODFW). Discussions included the proposed route, in-water work, and areas of concern for fish impacts.

Date	Initial Outreach Activity
May 2023	ODOE held public information meetings with Oregon state agencies; ODOE and the Preapplicant each presented the project.
	The Preapplicant met with Oregon PUC Chair to provide a project update.
August 2023	The Preapplicant phoned the Oregon Department of Environmental Quality (ODEQ) to inquire about recommended depth of horizontal directional drilling (HDD) to avoid disturbing sediments and asked about appropriate agency contacts and next steps.
September 2023	The Preapplicant held the first virtual multi-agency coordination call. Federal agencies in attendance included ODOT, WSDOT, and the Washington State Department of Ecology (Ecology).
Local Agencies in Washington	
June 2022	Preapplicant provided a project overview during a workshop with the Skamania County Public Utility District (PUD) and Skamania County Board of Commissioners.
September 2022	The Preapplicant met with Columbian River Gorge Commission to provide a project introduction.
March 2023	Preapplicant provided a project overview to the City of North Bonneville mayor and city planner.
April 2023	Preapplicant provided a project overview to the City of Stevenson mayor and city planner.
	Preapplicant provided a project overview to the City of Mosier city council.
May 2023	Preapplicant provided a review of the project route in Stevenson to the City of Stevenson mayor.
September 2023	Preapplicant provided a project update to the City of North Bonneville mayor and city planner.
Local Agencies in Oregon	
June 2022	The Preapplicant met with Wasco County commissioner to provide a project introduction.
	The Preapplicant met with Port of Portland to discuss real estate.
September 2022	The Preapplicant met with Columbian River Gorge Commission to provide a project introduction.
November 2022	The Preapplicant met with Multnomah County commissioners and staff to provide a project introduction.
February 2023	The Preapplicant met with Hood River Board of Commissioners and provided a project overview during public meeting.
February 2023	The Preapplicant met with the City of The Dalles city council and staff at a public meeting to provide a project introduction.
May 2023	The Preapplicant met with City of Mosier mayor and staff to provide a project introduction.
	The Preapplicant met with the City of The Dalles city manager to provide a project update.
	The Preapplicant met with the City of Mosier staff to provide an overview of the project route.
Tribal Outreach	
May 2021	The Preapplicant initiated contact with the Confederated Tribes of Warm Springs and had an introductory meeting. In October 2022, emailed a project update and offered another meeting. In March 2023, emailed OR EFSC link to NOI document. The Preapplicant initiated contact with the Yakama Nation and held an introductory meeting. In October 2022, emailed a project update and offered a meeting. The Preapplicant initiated contact with the Cowlitz Indian Tribe. In October 2022, emailed a project update, provided overview slide deck, and offered a meeting.
June 2021	The Preapplicant initiated contact with the Nez Perce Tribe. In October 2022, emailed a project update and offered a meeting. In May 2023, emailed a .kmz file of the project route in The Dalles, Oregon, in response to request and suggestion of contracting for services.

Date	Initial Outreach Activity
August 2021	The Preapplicant initiated contact with the Confederated Tribes of the Umatilla Indian Reservation (Umatilla, Cayuse, and Walla Walla). In October 2022, emailed a project update and offered a meeting.
March 2022	The Preapplicant initiated contact with the Columbia River Inter-Tribal Fish Commission (CRITFC) and had a meeting with CRITFC executive director, communications director, director of intergovernmental affairs, interim watershed department manager, manager of fishery science, watershed/water quality coordinator, and additional staff.
October 2022	The Preapplicant initiated contact with the Confederated Tribes of the Chehalis Reservation and offered a meeting. In March 2023, emailed project update and the OR EFSC link to NOI document. The Preapplicant initiated contact with the Confederated Tribes of Siletz and offered a meeting. The Preapplicant initiated contact with the Confederated Tribes of Grand Ronde.
March 2023	The Preapplicant contacted the Umatilla Indian Reservation to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the Confederated Tribes of the Chehalis Reservation to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the Nez Perce Tribe to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the CRITFC to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the Confederated Tribes of Warm Springs to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the Yakima Nation to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the Confederated Tribes of Grand Ronde to inform that the ODOE NOI had been filed.
	The Preapplicant contacted the Cowlitz Indian Tribe to inform that the ODOE NOI had been filed.
June 2023	The Preapplicant's consultant contacted the Confederated Tribes and Bands of the Yakama Nation to inform them of planned cultural resources survey.
	The Preapplicant's consultant contacted the Confederated Tribes of Grand Ronde to inform them of planned cultural resources survey.
	The Preapplicant's consultant contacted the Confederated Tribes of Siletz Indians to inform them of planned cultural resources survey.
	The Preapplicant's consultant contacted the Confederated Tribes of Warm Springs to inform them of planned cultural resources survey.
	The Preapplicant's consultant contacted the Confederated Tribes of the Umatilla Indian Reservation to inform them of planned cultural resources survey.
	The Preapplicant's consultant contacted the Cowlitz Indian Tribe of the Umatilla Indian Reservation to inform them of planned cultural resources survey.
	The Preapplicant's consultant contacted the Nez Perce Tribe to inform them of planned cultural resources survey.
October 2023	The Preapplicant sent a letter to the CRITFC Indian Tribes to inform them that their comments on the ODOE NOI had been received and would be addressed in the ODOE application.

Date	Initial Outreach Activity
	The Preapplicant sent a letter to the Confederated Tribes of Warm Springs to inform them that their comments on the ODOE NOI had been received and would be addressed in the ODOE application.
	The Preapplicant sent a letter to the Confederated Tribes of Grand Ronde to inform them that their comments on the ODOE NOI had been received and would be addressed in the ODOE application.
	The Preapplicant sent a letter to the Cowlitz Indian Tribe to inform them that their comments on the ODOE NOI had been received and would be addressed in the ODOE application.
December 2023	The Preapplicant and its consultant met with the Nez Perce Tribe to discuss the cultural resources survey.
	The Preapplicant's consultant met with the Confederated Tribes of Grand Ronde to discuss the cultural resources survey.

Following is list of stakeholders that the Preapplicant has contacted about the Project. This stakeholder outreach list includes counties, cities and towns, agencies, and other organizations.

Counties
Skamania County
Klickitat County
Clark County

Cities and Towns
Stevenson, Skamania County
North Bonneville, Skamania County
Carson, Skamania County
White Salmon, Klickitat County
Bingen, Klickitat County
Lyle (unincorporated), Klickitat County
Camas, Clark County
Washougal, Clark County
Vancouver, Clary County
Dallesport (unincorporated), Klickitat County

Agencies
Bonneville Power Administration
United States Bureau of Reclamation
United States Army Corps of Engineers
Oregon Department of Energy
Washington Department of Fish and Wildlife
Washington State Department of Ecology
Washington Department of Natural Resources
Washington Department of Parks and Recreation
Washington Department of Transportation
Skamania County Public Utility District
Port of Skamania

Klickitat Public Utility District (PUD)
Klickitat County Planning Department
Port of Klickitat
Mt. Adams Chamber of Commerce, Klickitat County
Lyle Community Council, Klickitat County
Dallesport Water District, Klickitat County
Clark Public Utilities, Clark County

Other Organizations
Natural Resources Defense Council
Columbia Riverkeeper
Freshwater Trust
Friends of the Columbia Gorge
Sierra Club Oregon
The Nature Conservancy
Mid-Columbia Economic Development District
American Rivers
LC Estuary Partnership
Columbia Land Trust
Oregon Wild
Oregon League of Conservation Voters
Wild Salmon Center
Willamette Riverkeeper
Climate Solutions
Sustainable NW
Renewable NW

9. Public Participation Plan

(WAC 463-61-050(9))

(9) A public participation plan that:

(a) Identifies specific tools and actions to facilitate stakeholder communications and public information, including an up-to-date project website and a readily accessible, single point of contact within the company;

(b) Lists all central locations in each local government throughout the project area where the preapplicant shall provide copies of all their filings related to the proposed project; and

(c) Includes a description and schedule explaining how the preapplicant intends to respond to requests for information from the public as well as federal, state, local, and tribal agencies or any other legal entities that could have permitting requirements if the project proponents were not to choose the EFSEC review.

The Preapplicant has drafted a *Public Participation Plan* to include the requested components and it is provided in Appendix B.

10. Description of Negotiation Process

(WAC 463-61-050(10) and WAC 463-61-080)

WAC 463-61-050(10) A negotiation process acceptable to EFSEC between the preapplicant and the cities, towns, and/or counties through which the proposed transmission line corridor will be located except where the cities, towns, and/or counties have designated transmission corridors through their land use plans or zoning ordinances.

WAC 463-61-080

> *(1) As required by RCW 80.50.330(2) if no corridor has been designated by a local government the preapplicant and affected cities, towns, and/or counties shall negotiate to designate a corridor for the electrical transmission facility.*
>
> *(2) If after sixty days of negotiations between the preapplicant and affected cities, towns, and/or counties, no corridor has been agreed upon, the preapplicant together with an affected city, town, or county may request EFSEC extend the time of negotiations by a period of time that the preapplicant and city, town, and/or county have agreed upon. If such a joint request is not made, the negotiations shall be deemed failed.*
>
> *[Statutory Authority: Chapter 80.50 RCW and RCW 80.50.040. WSR 08-21-092, § 463-61-080, filed 10/15/08, effective 11/15/08.]*

Other than in Skamania County, the alignment of the cable route would be in the Columbia River and not generally within the direct jurisdiction of local government entities. Nonetheless, the Preapplicant would communicate with the following local Washington governments along the cable route to describe the proposed Project and the proposed locations of the cable and invite their comments.

- **Counties**
  - Klickitat County
  - Skamania County
  - Clark County
- **Cities and Towns**
  - Stevenson
  - North Bonneville
  - White Salmon
  - Bingen
  - Camas
  - Washougal
  - Vancouver

The Preapplicant would send a written notice via certified mail to appropriate officials affiliated with these jurisdictions to inform them of the Project and the filing of a Pre-Application Request with WA EFSEC. The communication would request their review of the proposed project corridor within or adjacent (if in-river) to their jurisdiction. A map would be enclosed identifying the location of the

proposed corridor and their jurisdiction, as well as a description of the work that would be required to construct the proposed Project. The Preapplicant would request their concurrence with the proposed project corridor and provide options for providing feedback as to whether they a) support the proposed corridor, b) would like to negotiate the location of the proposed corridor, or c) are opposed to the corridor or are not willing to negotiate. The Preapplicant would offer to meet to discuss the Project, answer questions, and negotiate the location of the corridor if needed. If stakeholders indicate that they would like to negotiate individually or in coordination with each other, the Preapplicant would coordinate that effort. The Preapplicant will make a concerted effort to successfully negotiate following the WAC 463-61-080 process. If a hard copy letter is sent, a form would be enclosed with a self-addressed, stamped return envelope to provide an opportunity for written responses.

Appendix A - Detailed Project Description

The Cascade Renewable Transmission Project (Project) is proposed within both Washington and Oregon.

The Project is a (320-kilovolt [kV] or 400-kV) high-voltage direct current (HVDC) 1,100-megawatt (MW) electric transmission facility interconnecting the existing Bonneville Power Administration (BPA) Big Eddy 500-kV alternating current (AC) substation located near The Dalles, Oregon (Eastern Interconnection), and the existing Portland General Electric (PGE) Harborton 230-kV AC substation located in Portland, Oregon (Western Interconnection) (Figure 1 in Appendix A).

Figure 1
Project Overview
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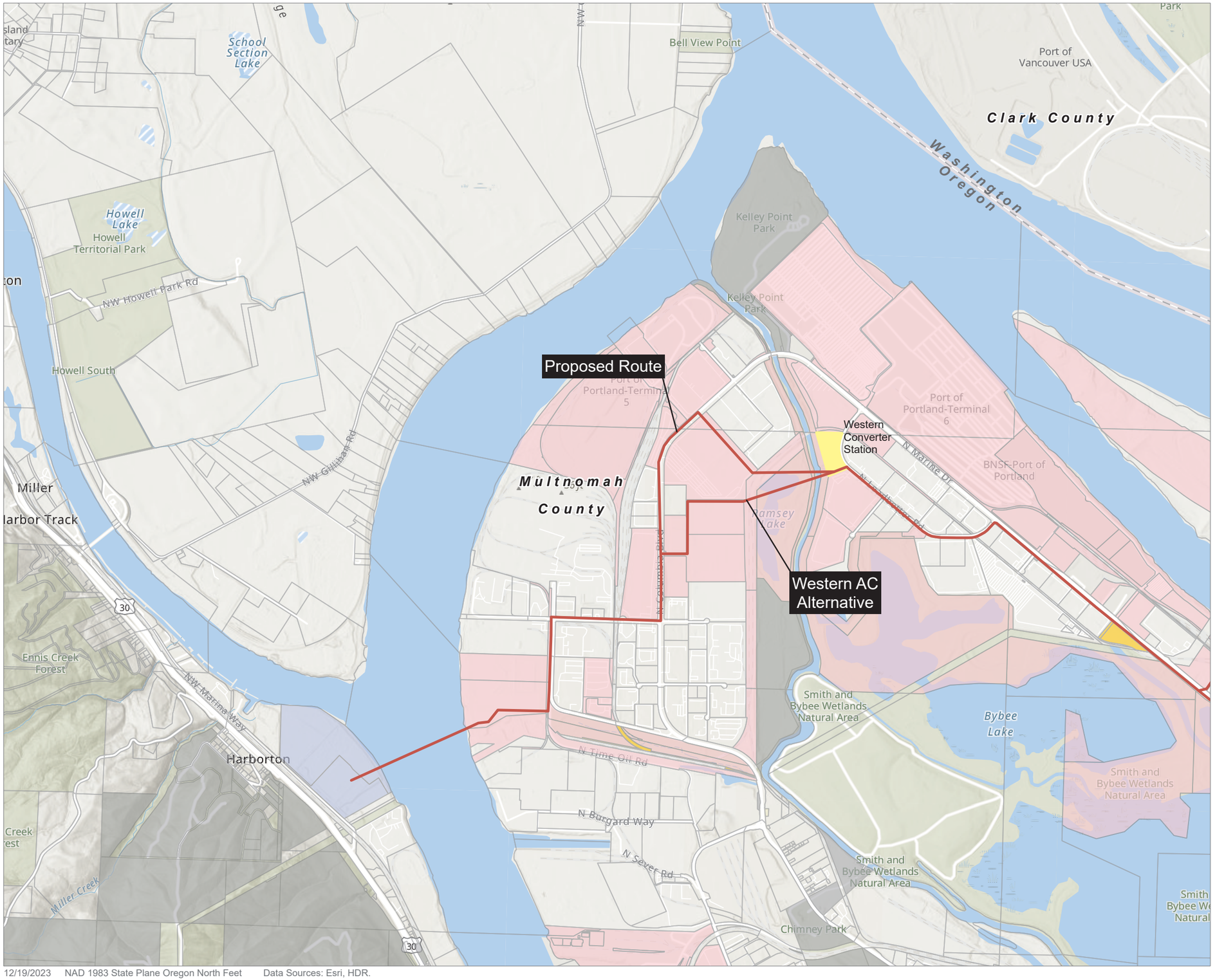
Clark County, Multnomah County



12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

- Proposed Alignment
- Converter Station
- BNSF
- City of Portland
- PG&E
- Port of Portland
- Private

CASCADE RENEWABLE TRANSMISSION

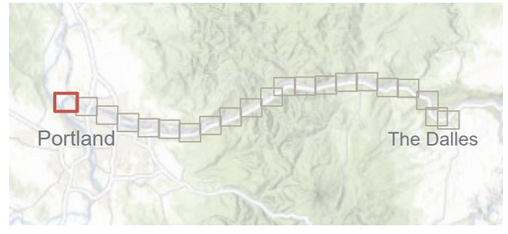


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Figure 1
Project Overview
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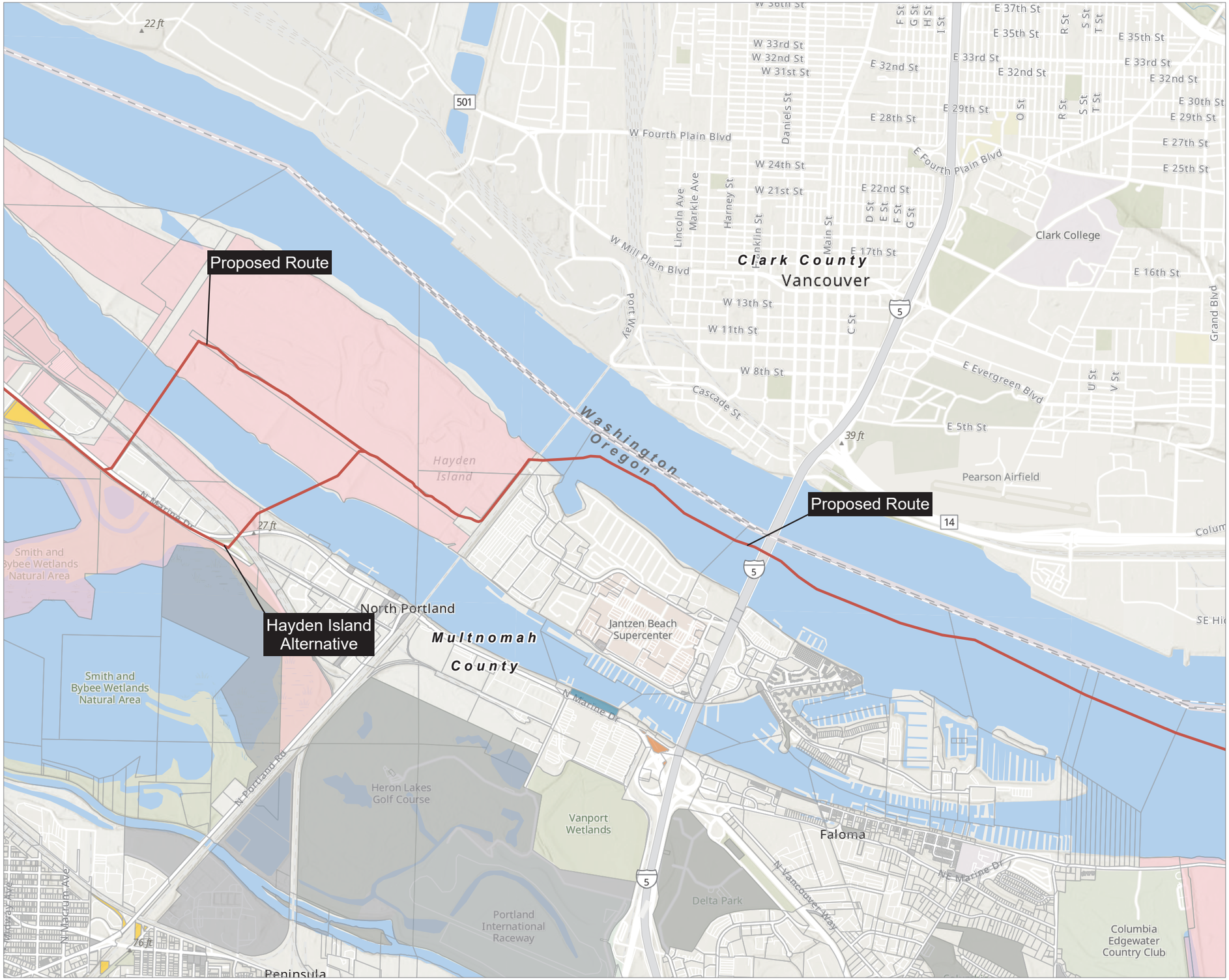
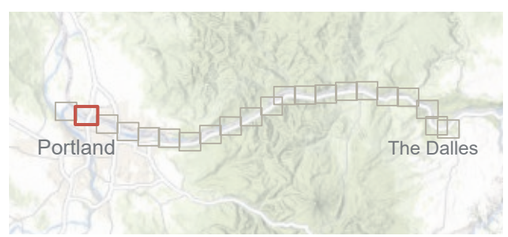
Clark County, Multnomah County



12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

- Proposed Alignment
- Converter Station
- ODOT
- BNSF
- City of Portland
- Port of Portland
- Portland Metro
- Private

CASCADE RENEWABLE TRANSMISSION



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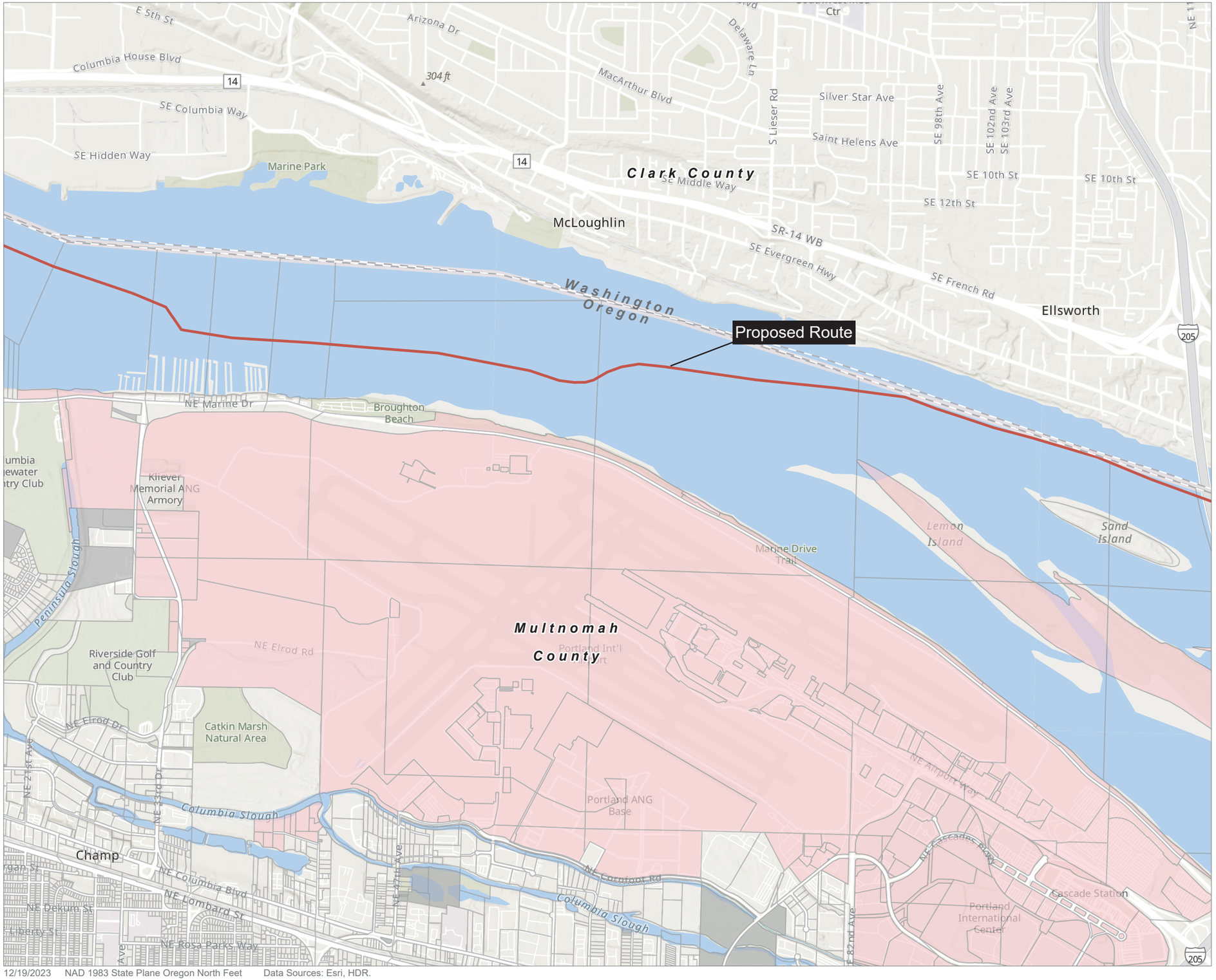

12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
Page 3 of 21

Clark County, Multnomah County

- Proposed Alignment
- Converter Station
- City of Portland
- Port of Portland
- Private

CASCADE RENEWABLE TRANSMISSION

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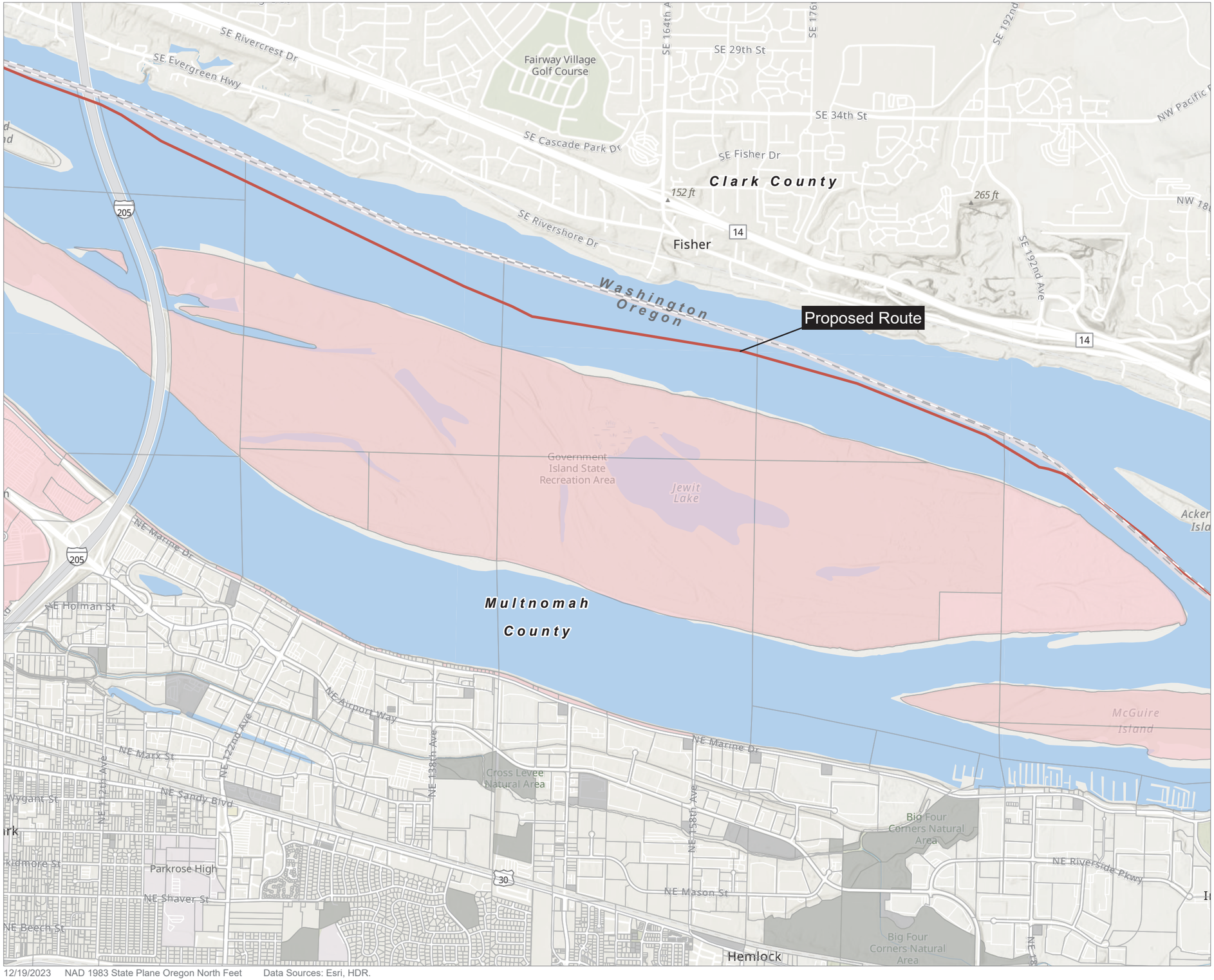

12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
Page 4 of 21

Clark County, Multnomah County

- Proposed Alignment
- Converter Station
- City of Portland
- Port of Portland
- Private

CASCADE RENEWABLE TRANSMISSION

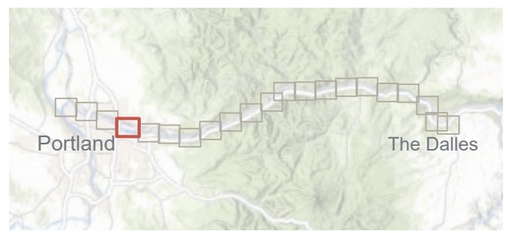

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Figure 1
Project Overview
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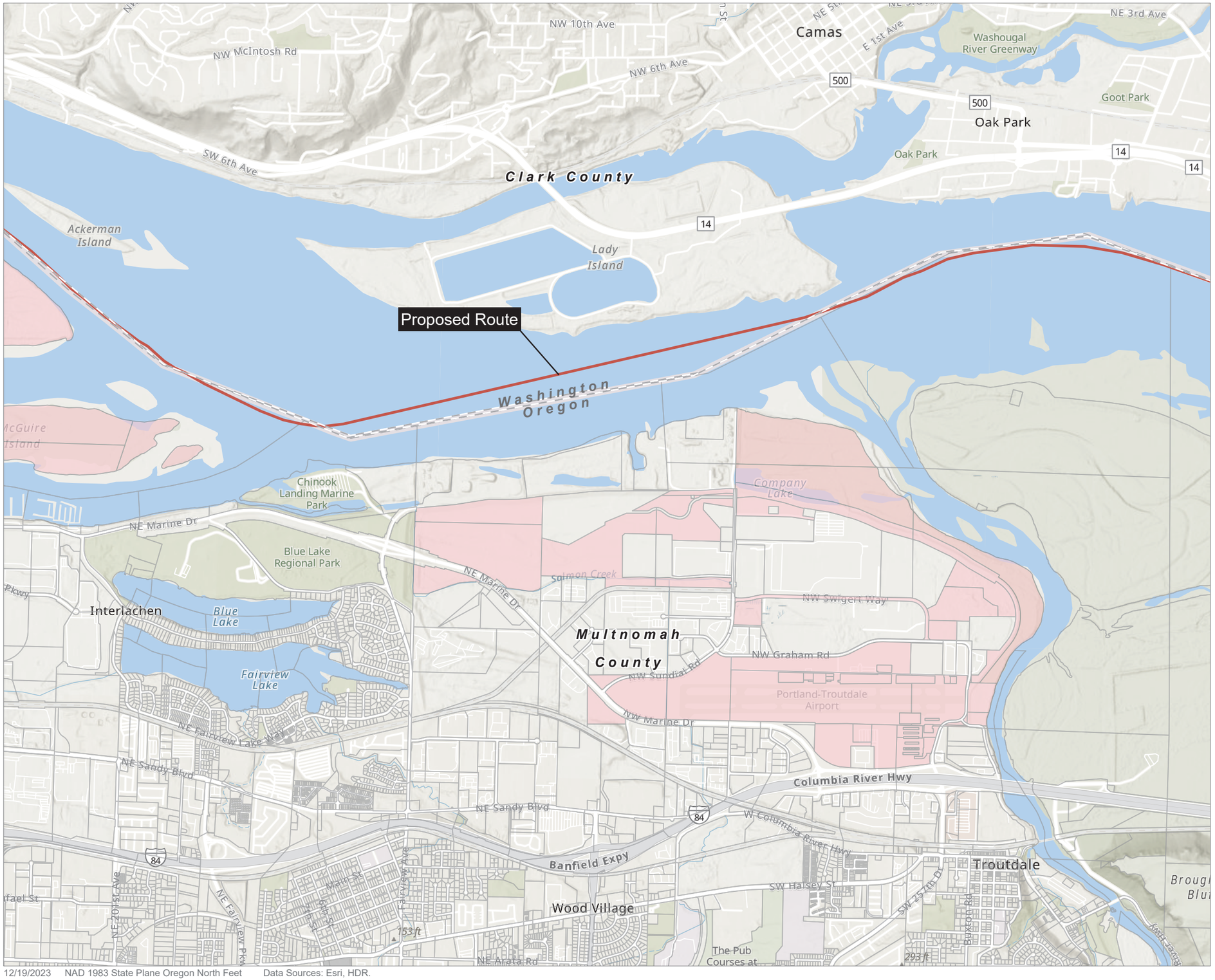
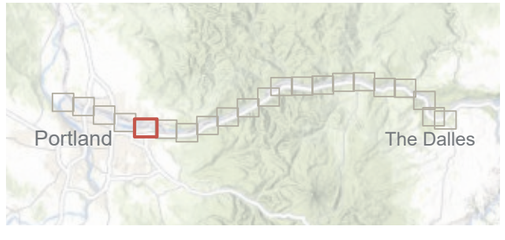
Clark County, Multnomah County



- Proposed Alignment
- Converter Station
- City of Fairview
- Port of Portland
- Private

CASCADE RENEWABLE TRANSMISSION



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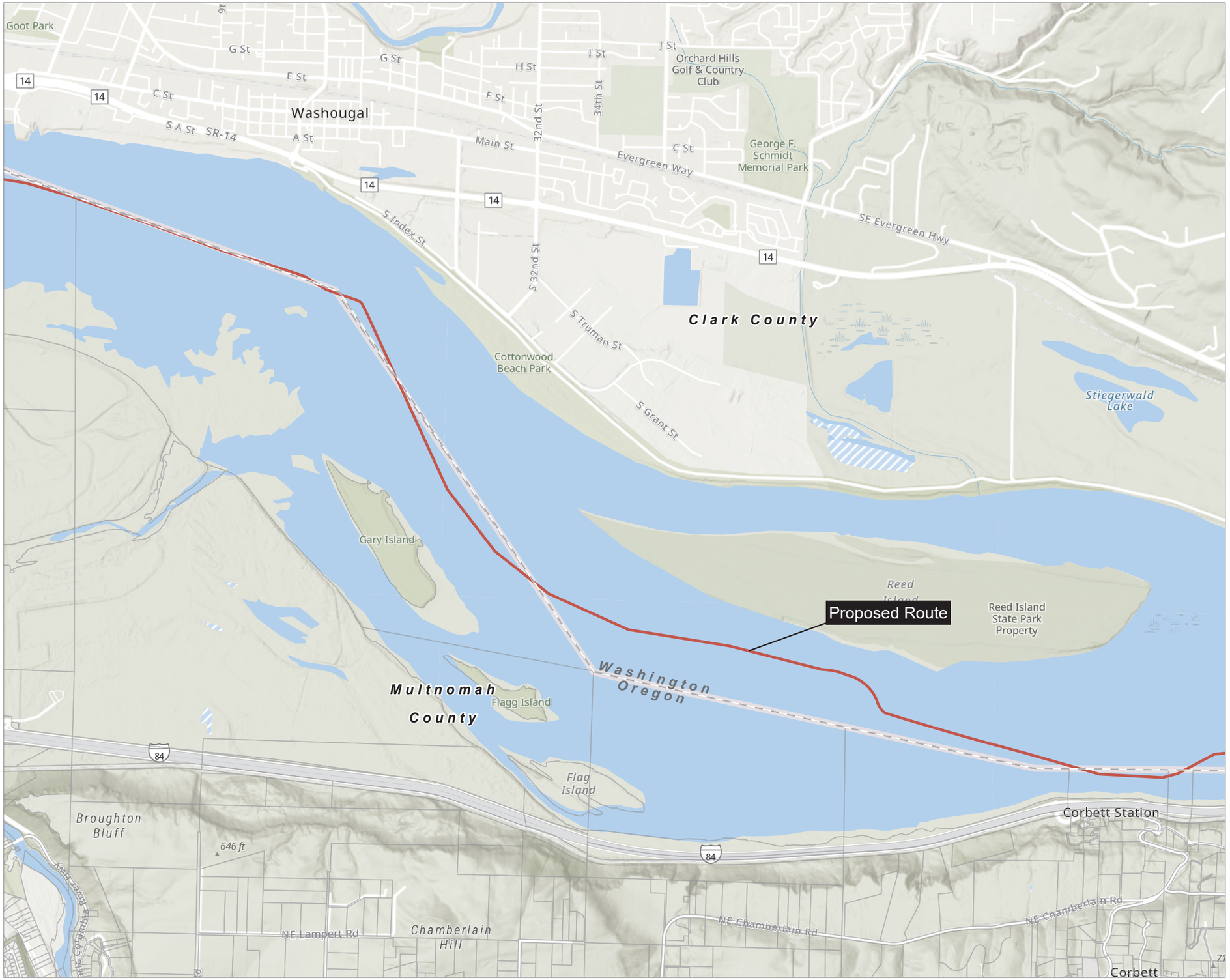
12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

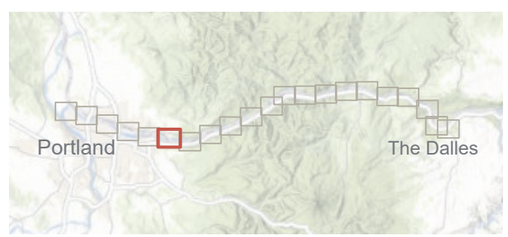
Figure 1
Project Overview

Clark County, Multnomah County



Proposed Alignment
Converter Station
Private

CASCADE RENEWABLE TRANSMISSION



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12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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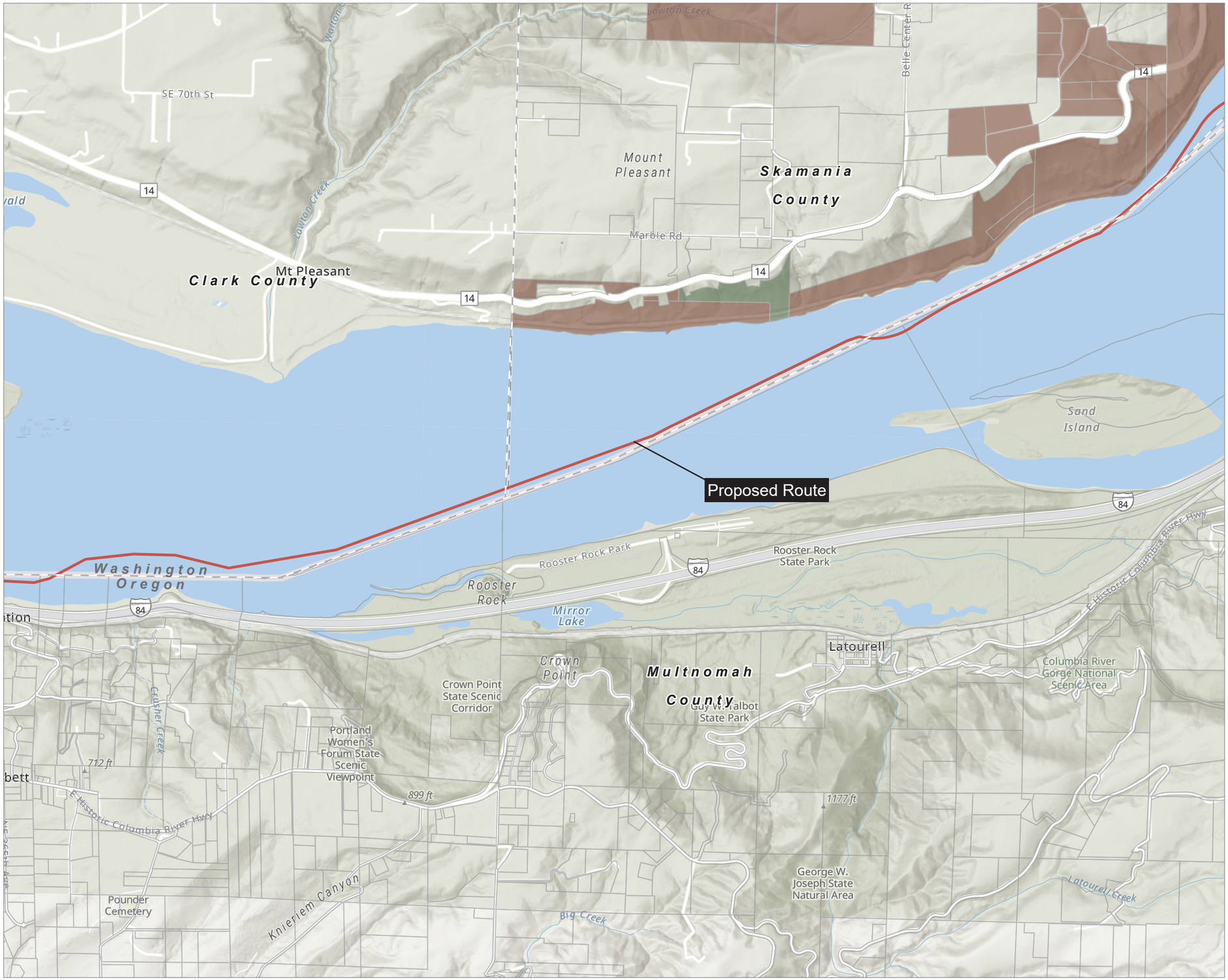
Clark County, Skamania County, Multnomah County



12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Proposed Alignment
Converter Station
USA
US Forest Service
Private

CASCADE RENEWABLE TRANSMISSION

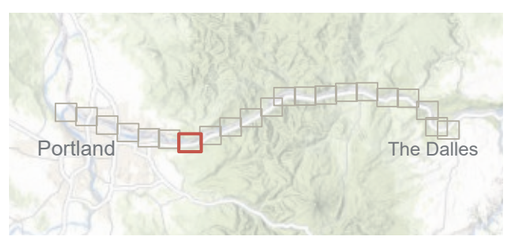


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Figure 1
Project Overview
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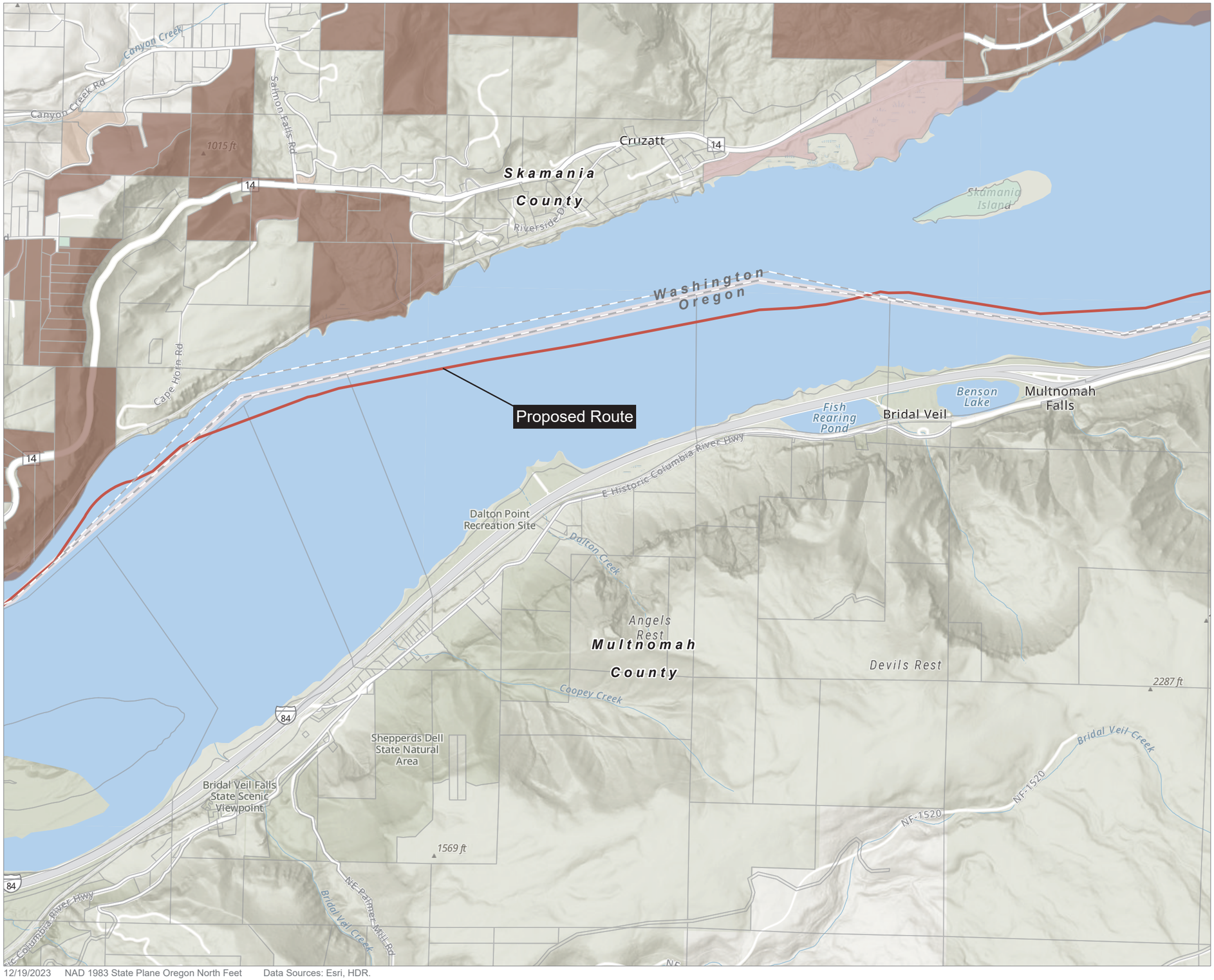
Skamania County, Multnomah County



12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- SKAMANIA COUNTY
- State of Washington
- Private

CASCADE RENEWABLE TRANSMISSION

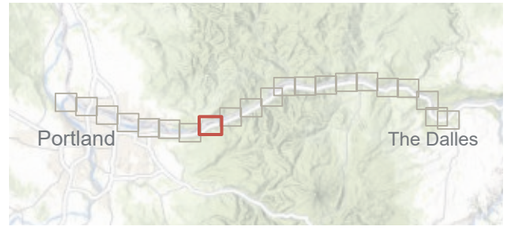


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Figure 1
Project Overview
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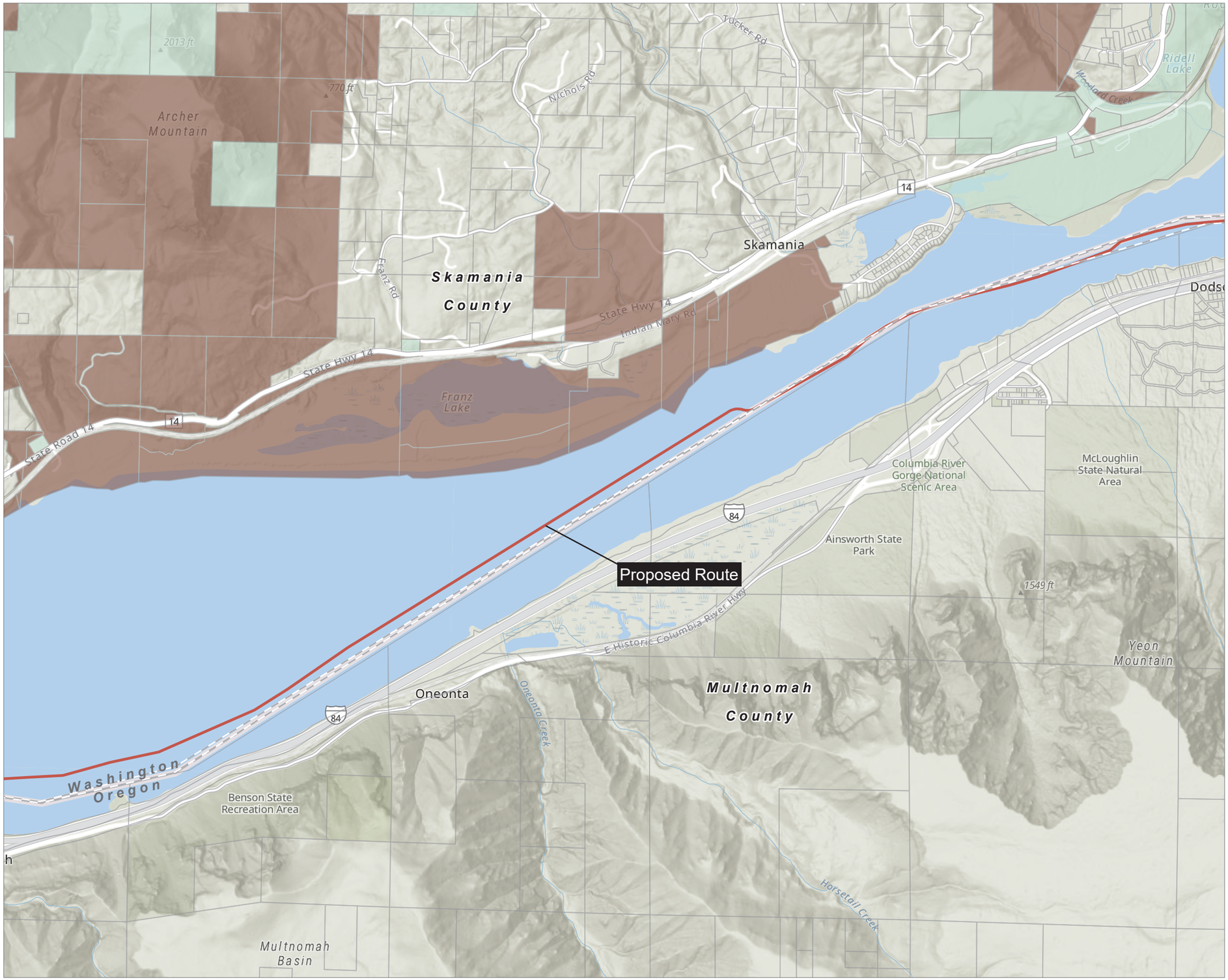
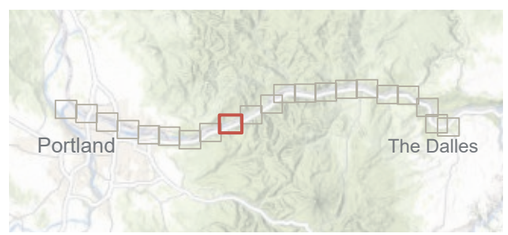
Skamania County, Multnomah County



- Proposed Alignment
- Converter Station
- USA
- SKAMANIA COUNTY
- State of Washington
- Private

CASCADE RENEWABLE TRANSMISSION



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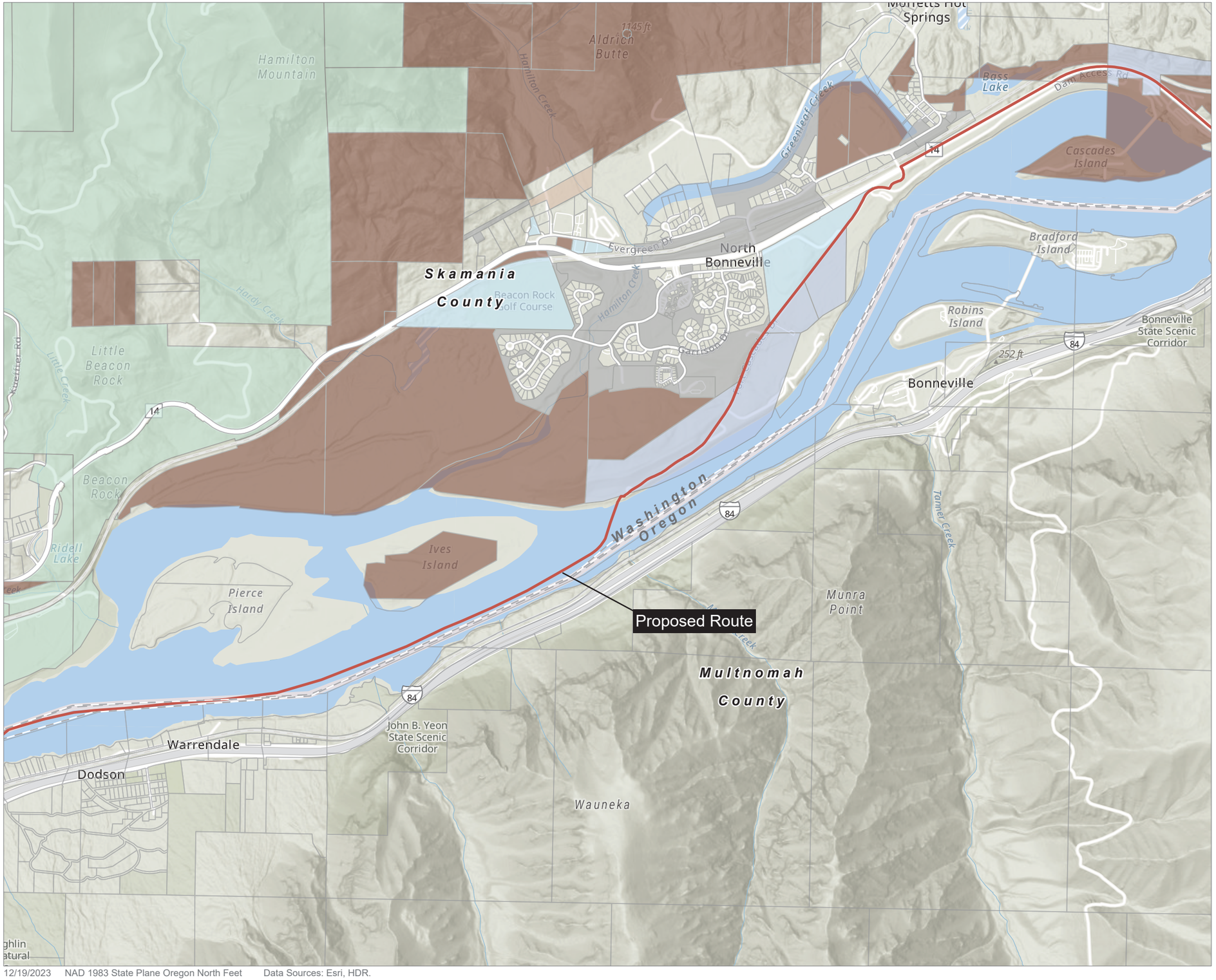

12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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Skamania County, Multnomah County

- Proposed Alignment
- Converter Station
- USA
- City of North Bonneville
- PORT OF SKAMANIA COUNTY
- SKAMANIA COUNTY
- State of Washington
- USACE
- Private

CASCADE RENEWABLE TRANSMISSION

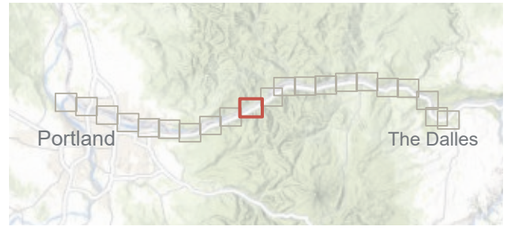

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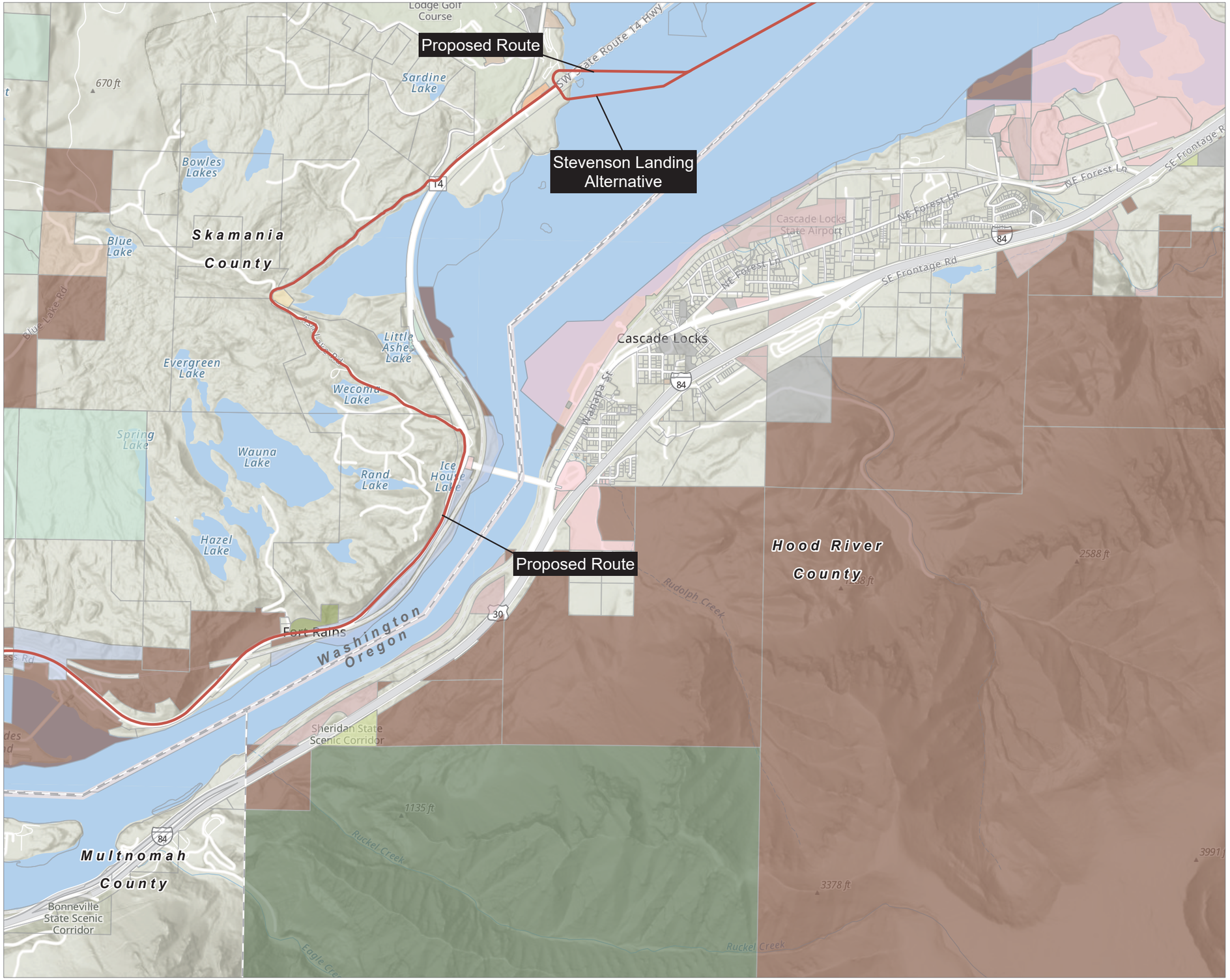
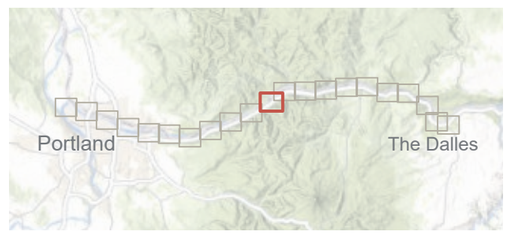
Figure 1
Project Overview

Skamania County, Multnomah County, Hood River County



- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- US Forest Service
- City of Cascade Locks
- City of Stevenson
- Hood River County
- Oregon Parks & Recreation Department
- PORT OF CASCADE LOCKS
- Port of Cascade Locks
- SKAMANIA COUNTY
- State of Washington
- USACE
- WADNR
- WDFW
- WSDOT
- Private

CASCADE RENEWABLE TRANSMISSION



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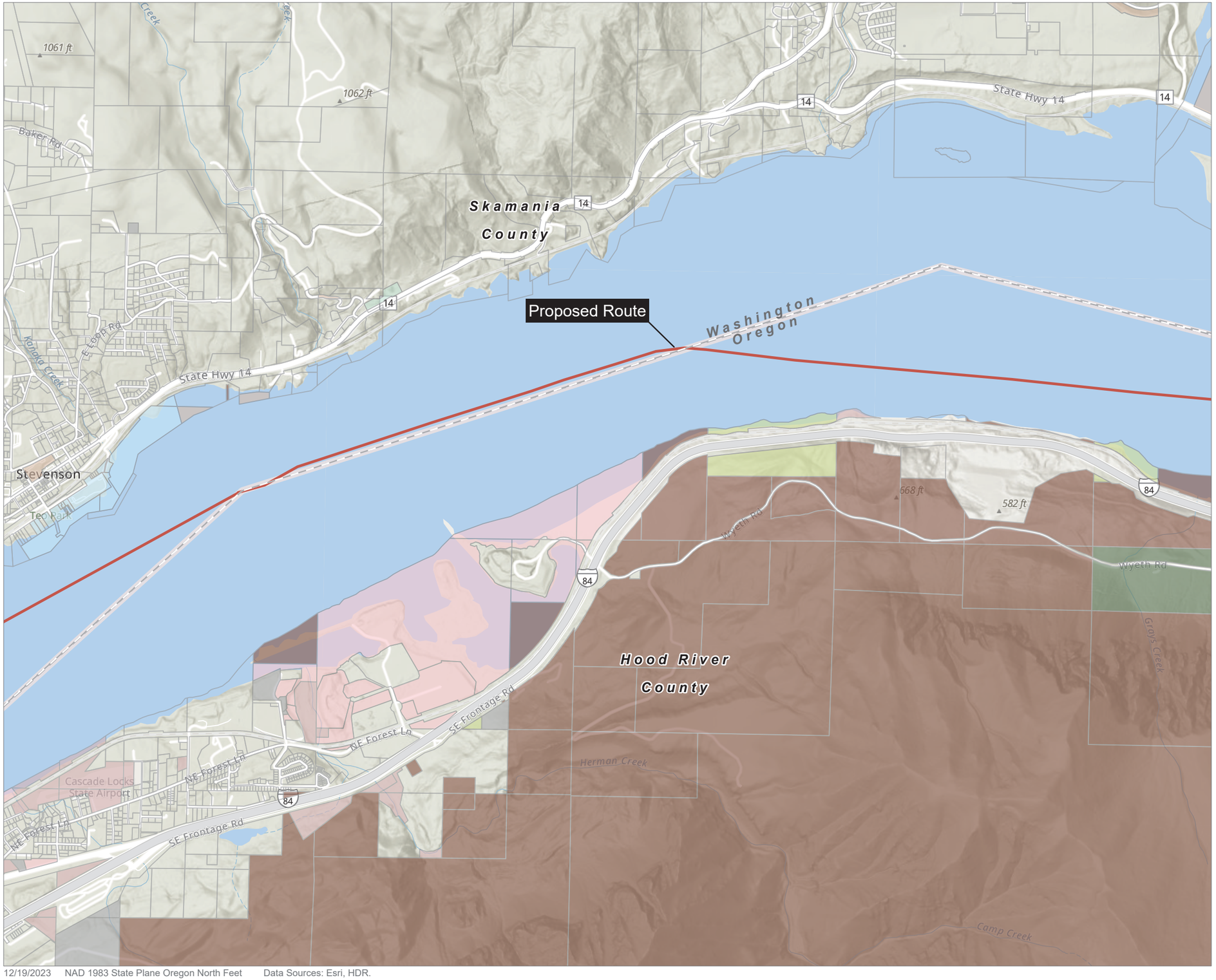

12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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Skamania County, Hood River County

- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- US Forest Service
- City of Cascade Locks
- City of Stevenson
- Hood River County
- Oregon Parks & Recreation Department
- PORT OF SKAMANIA COUNTY
- Port of Cascade Locks
- SKAMANIA COUNTY
- State of Washington
- Private

CASCADE RENEWABLE TRANSMISSION

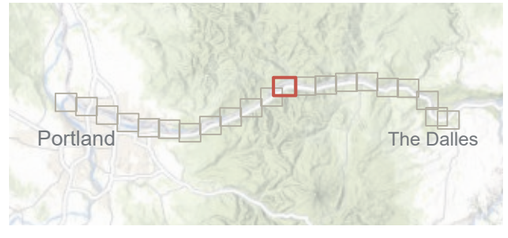

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Figure 1
Project Overview
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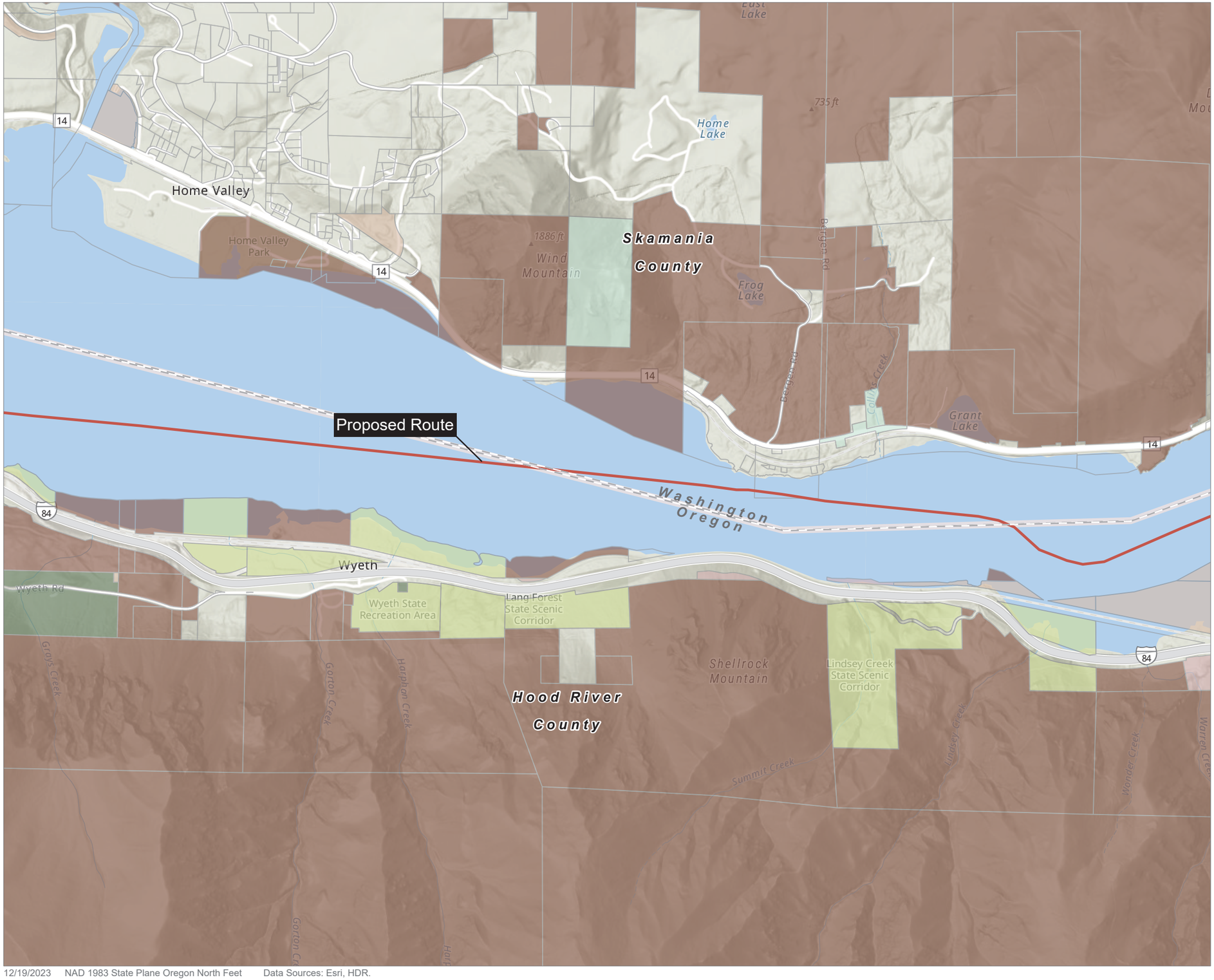
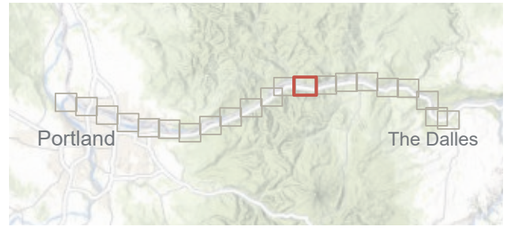
Skamania County, Hood River County



- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- US Forest Service
- Hood River County
- Oregon Parks & Recreation Department
- SKAMANIA COUNTY
- State of Washington
- Private

CASCADE RENEWABLE TRANSMISSION



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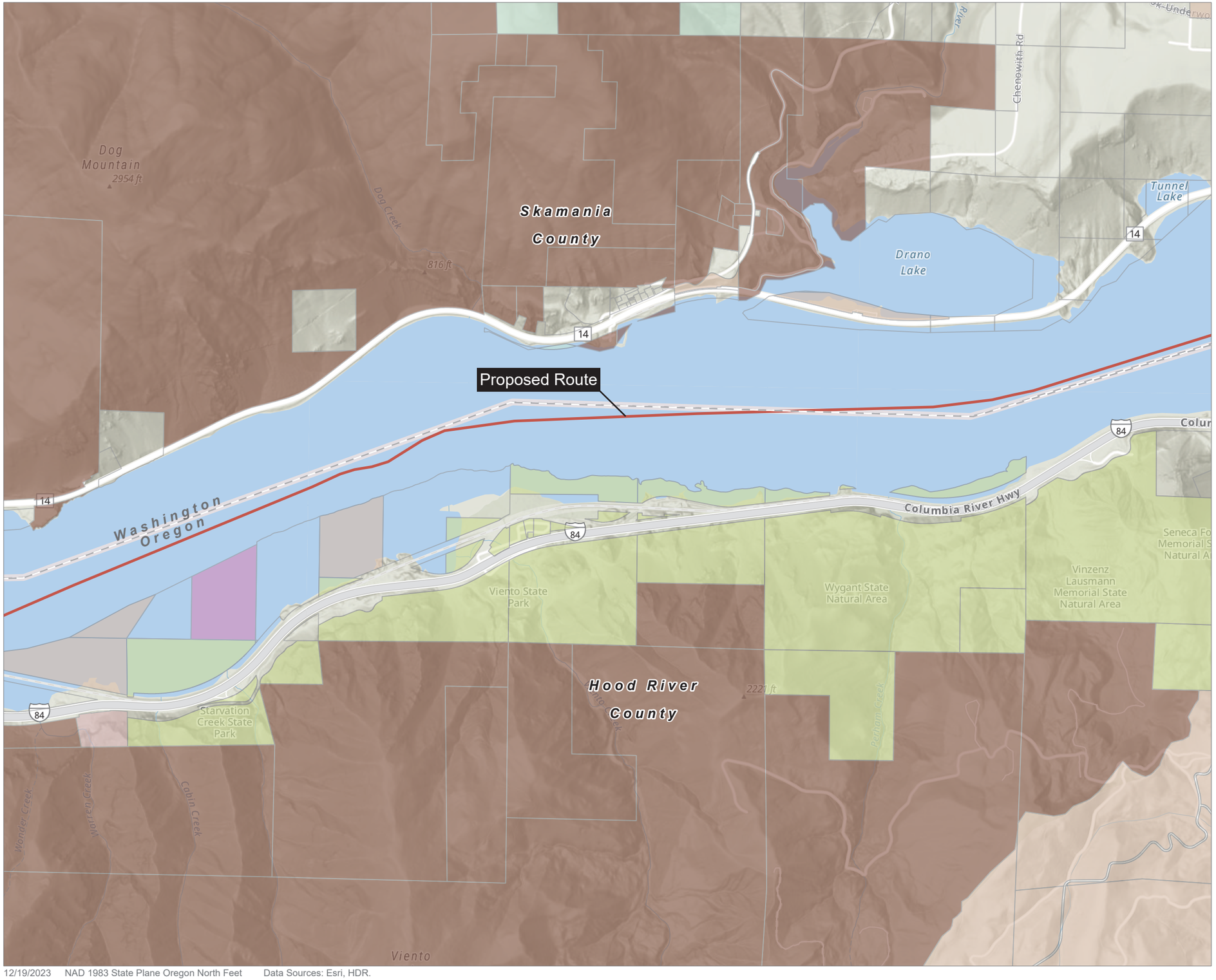
12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

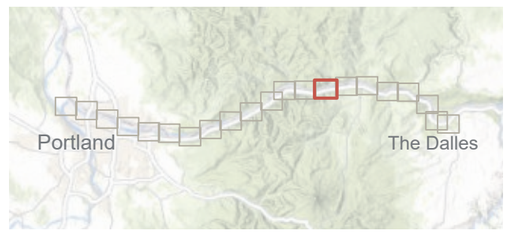
Figure 1
Project Overview

Skamania County, Hood River County



- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- Port of Hood River
- Hood River County
- Oregon Parks & Recreation Department
- SKAMANIA COUNTY
- State of Washington
- Private

CASCADE RENEWABLE TRANSMISSION



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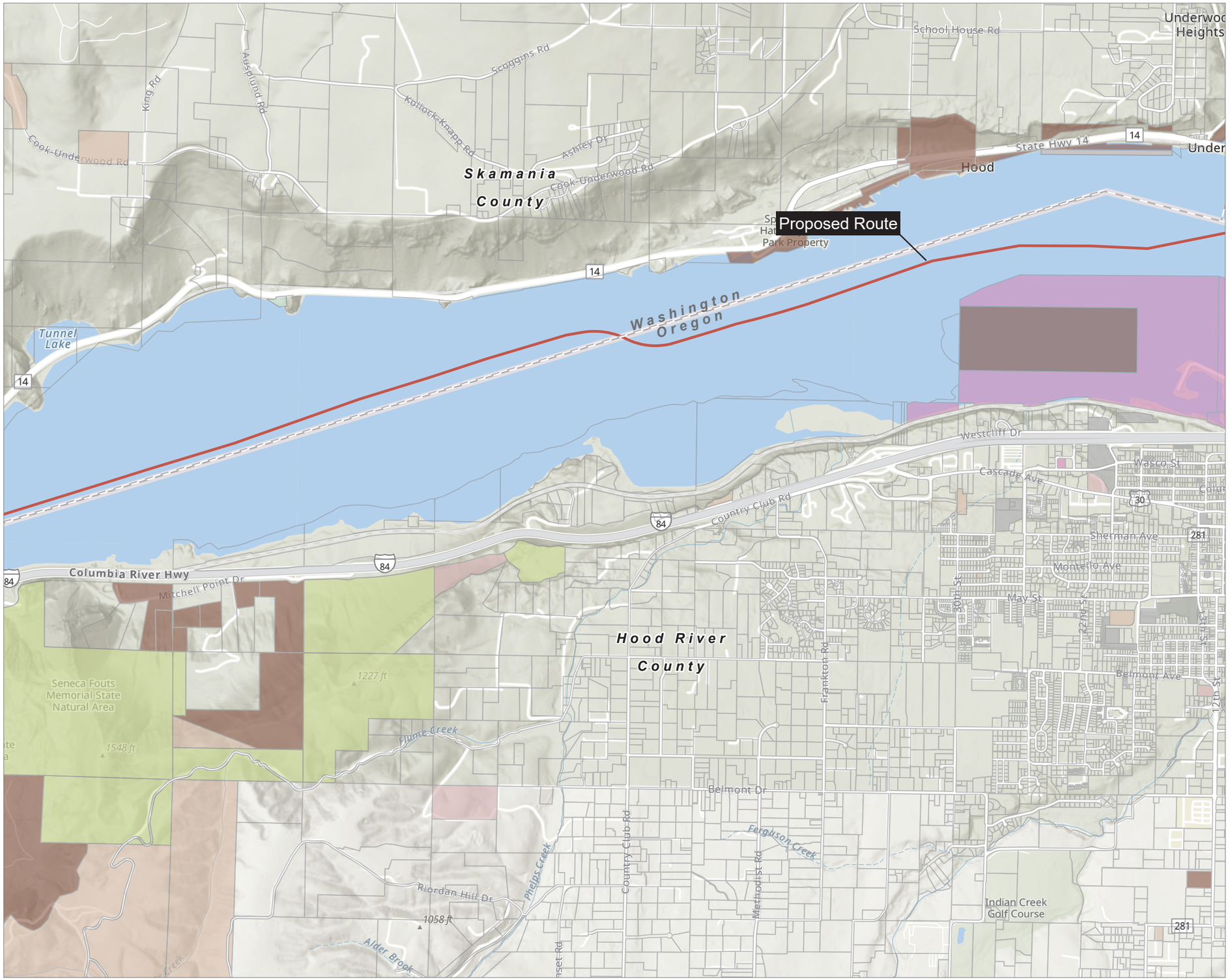
12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

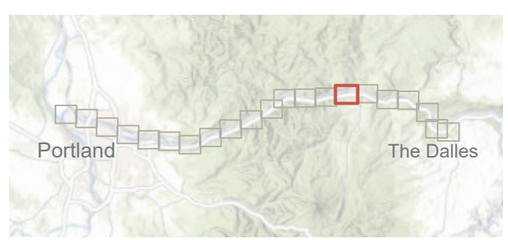
Figure 1
Project Overview

Skamania County, Hood River County



- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- Port of Hood River
- City of Hood River
- Hood River County
- Oregon Parks & Recreation Department
- SKAMANIA COUNTY
- State of Washington
- Private

CASCADE RENEWABLE TRANSMISSION



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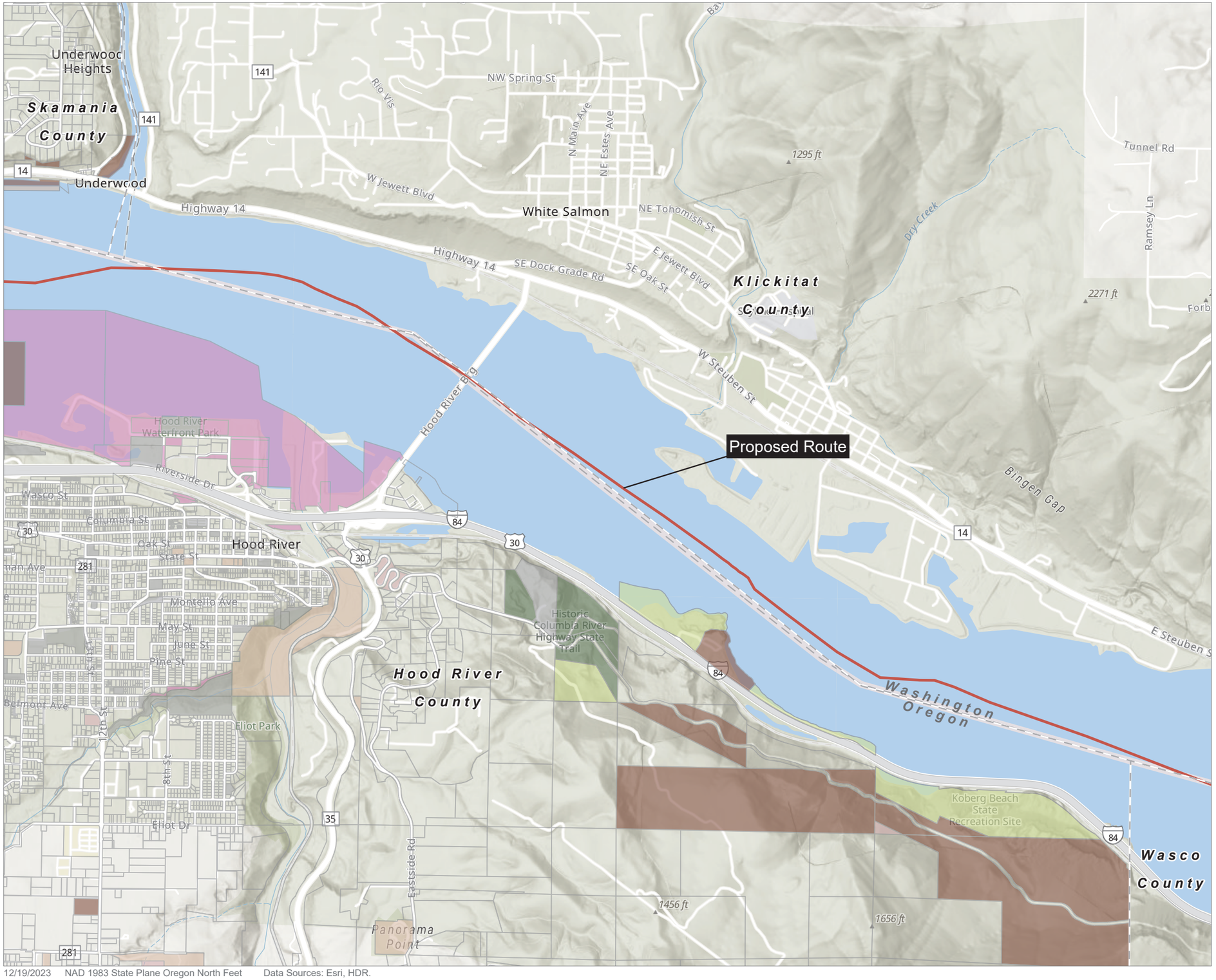

12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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Skamania County, Klickitat County, Hood River County

- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- US Forest Service
- Port of Hood River
- City of Hood River
- Hood River County
- Oregon Parks & Recreation Department
- SKAMANIA COUNTY
- Private

CASCADE RENEWABLE TRANSMISSION

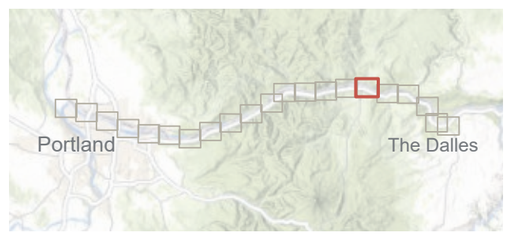

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Figure 1
Project Overview
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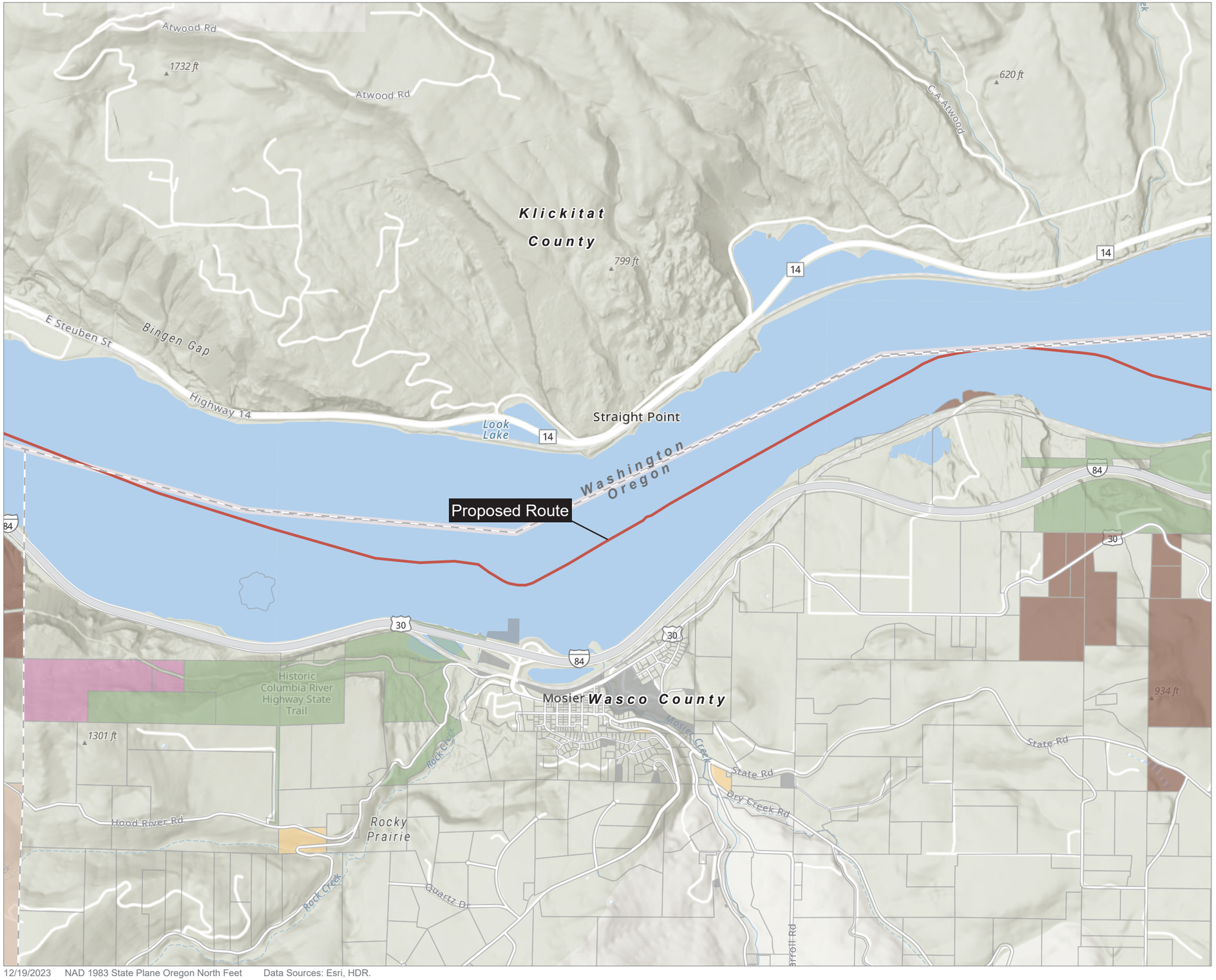
Klickitat County, Wasco County



- Proposed Alignment
- Converter Station
- USA
- City of Mosier
- Oregon Parks and Recreation
- Port of Hood River
- Wasco County
- Hood River County
- Private

CASCADE RENEWABLE TRANSMISSION

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12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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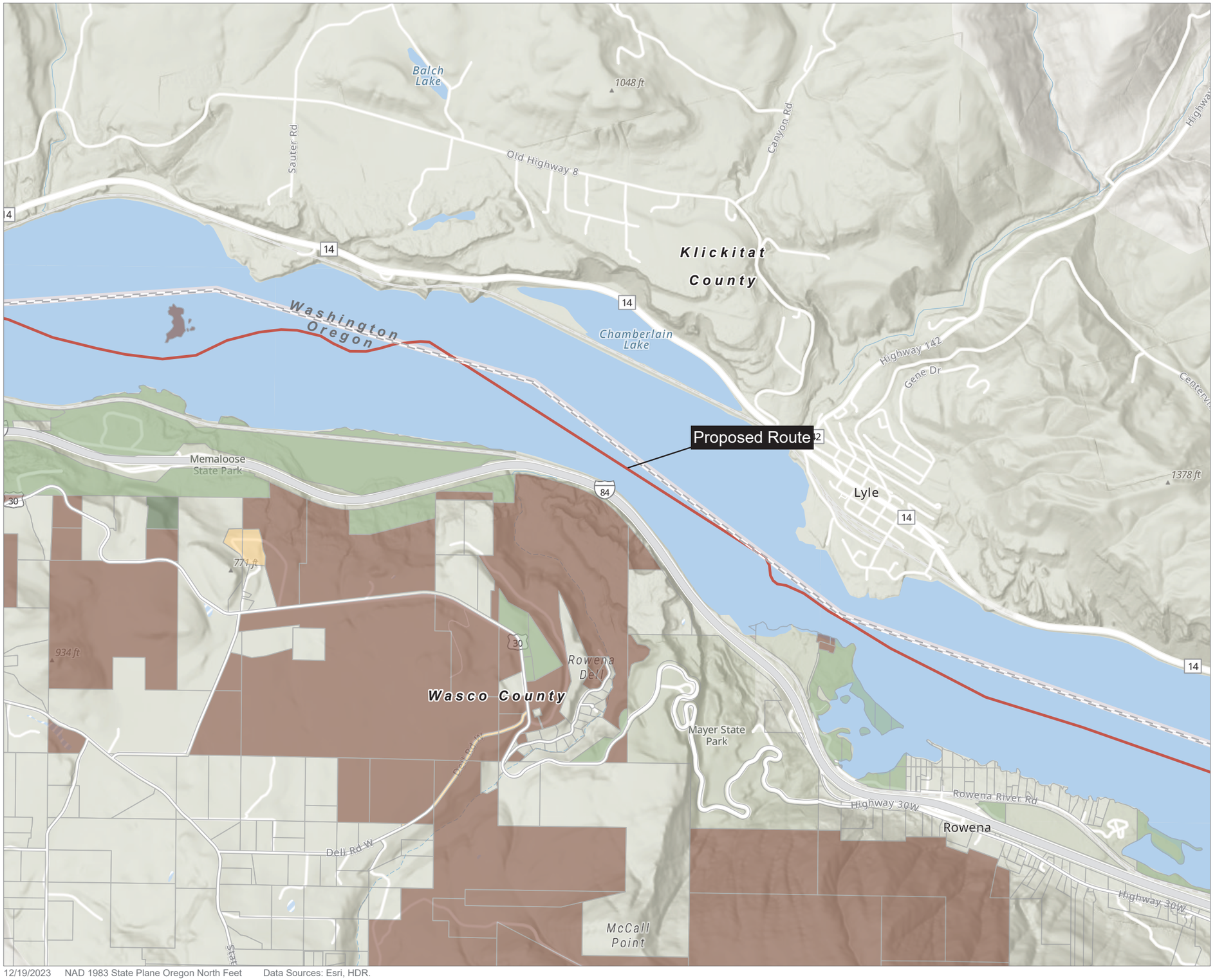
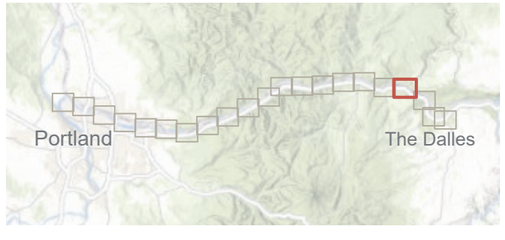
Klickitat County, Wasco County



- Proposed Alignment
- Converter Station
- State of Oregon
- USA
- US Forest Service
- Oregon Parks and Recreation
- Wasco County
- Private

CASCADE RENEWABLE TRANSMISSION



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12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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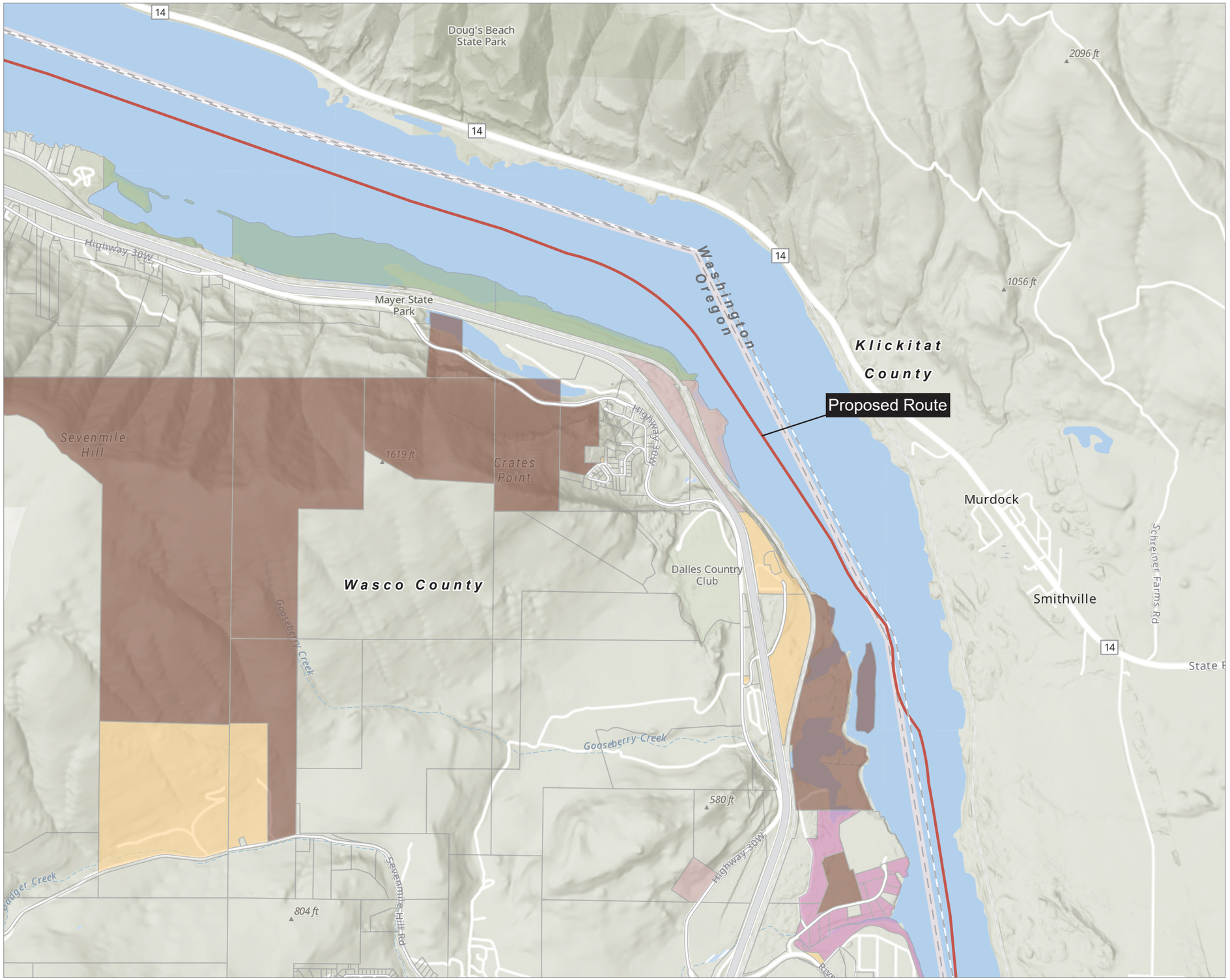
Klickitat County, Wasco County



Proposed Alignment
Converter Station
State of Oregon
USA
Oregon Parks and Recreation
Port of the Dalles
Wasco County
Private

CASCADE RENEWABLE TRANSMISSION

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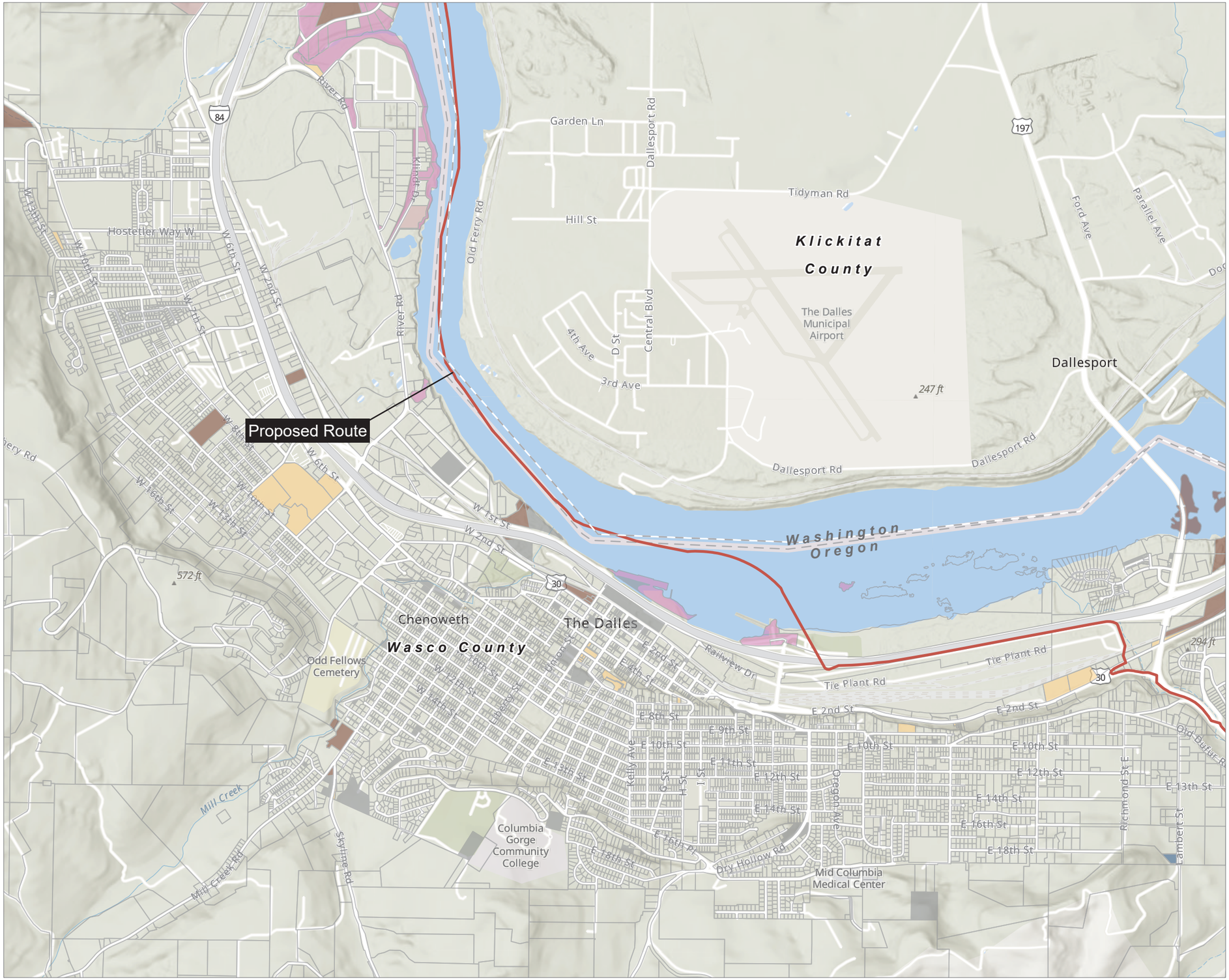

12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

Figure 1
Project Overview
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Klickitat County, Wasco County

- Proposed Alignment
- Converter Station
- State of Oregon
- BPA
- USA
- City of The Dalles
- Port of the Dalles
- Wasco County
- Private

CASCADE RENEWABLE TRANSMISSION

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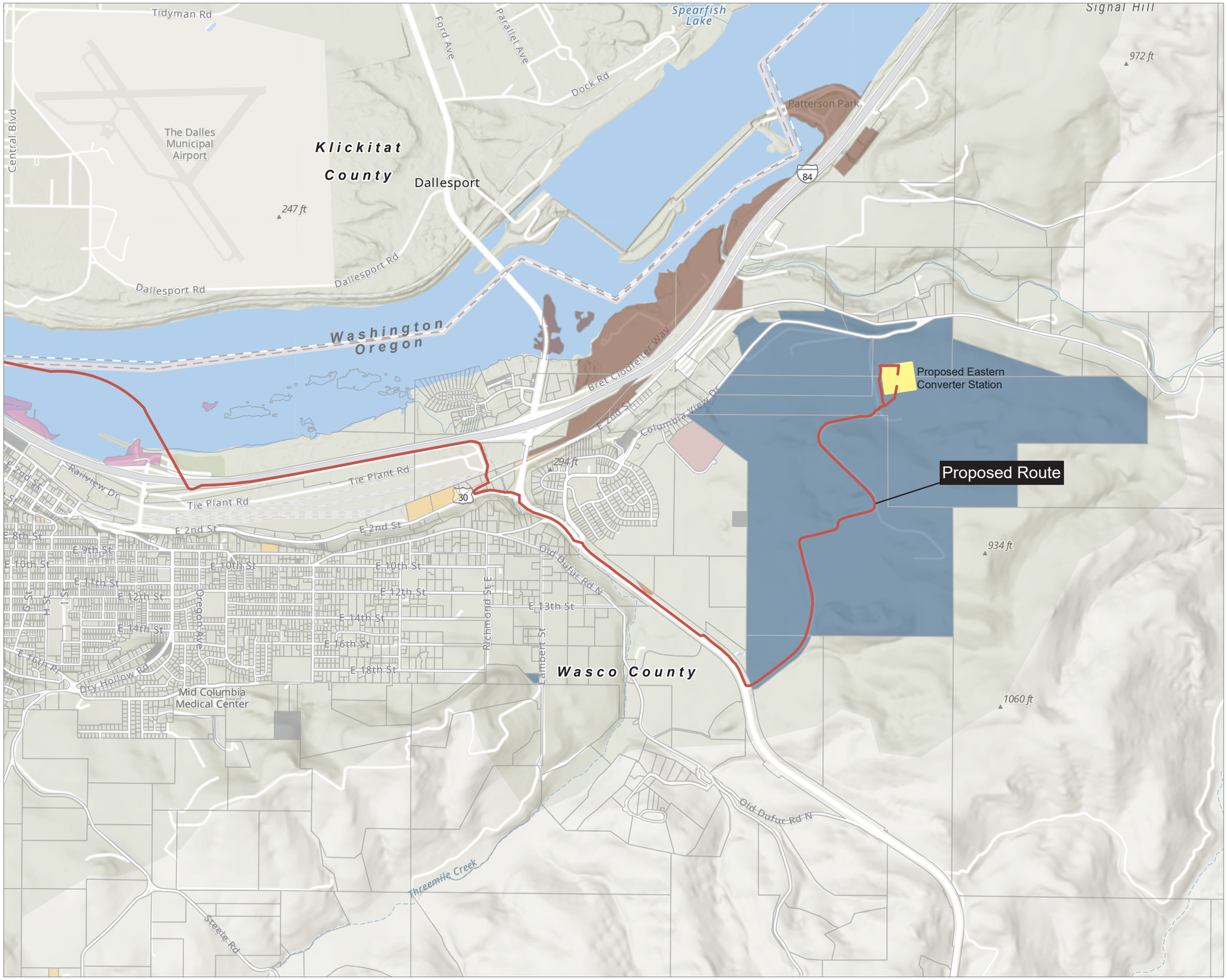
1:24,000

Figure 1
Project Overview
Page 21 of 21

Klickitat County, Wasco County



12/19/2023 NAD 1983 State Plane Oregon North Feet Data Sources: Esri, HDR.

- Proposed Alignment
- Converter Station
- State of Oregon
- ODOT
- BPA
- USA
- City of The Dalles
- Port of the Dalles
- Wasco County
- Private

CASCADE RENEWABLE TRANSMISSION

HDR

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From the interconnections, the cable bundle would be buried underground in Oregon to the edge of the Columbia River on each end, and buried in the bed of the Columbia River in Oregon and Washington. Most on-land Project components, including all aboveground visible structures, are proposed in Oregon. The on-land Project component in Washington includes approximately 7.5 miles of underground buried cable to bypass the dam, locks, juvenile fish passage, and tribal fishing areas at the Bonneville Dam.

The total length of the transmission line would be approximately 98.5 miles. The facility would be comprised of the following major components and structures.

Converter Stations

Two voltage source conversion (VSC) HVDC technology converter stations would be required, each located near the respective interconnection points, which are the BPA Big Eddy 500-kV substation near The Dalles, Oregon, and the PGE Harborton 230-kV substation in northwest Portland, Oregon. The eastern converter station would convert AC power from Big Eddy substation to direct current (DC) for transmission on the Project's 320-kV or 400-kV cable system to the western converter station, where it would be converted back to AC for injection at Harborton substation. The Preapplicant has submitted an application for use of BPA right-of-way (ROW) for the eastern converter station location and a letter of intent has been signed with the Port of Portland for the western converter station location.

The converter stations would be sited on approximately 5 acres each, graveled and fenced with minimal parking, and installed with appropriate site-specific drainage. These converter stations would include conventional design converter transformers and protective circuit breakers and include a control room for operating the facility as well as basic facilities for staff (bathroom/kitchen). Final design at each converter station would be in accordance with approved site plans that take into account local zoning requirements.

High Voltage Alternating Current Transmission

The converter stations would be connected to the respective substations by high-voltage alternating current (HVAC) cables. The eastern converter station near The Dalles would be connected to the existing Big Eddy substation with approximately 500 feet of 500kV overhead HVAC wire, which would be supported by two new lattice structures approximately 80 feet wide and 60 feet tall. One lattice structure would be located in the Big Eddy substation and one lattice structure would be within the eastern converter station.

The western converter station in Portland would be connected to the existing Harborton substation with approximately 2.7 miles of two-per-phase, 230-kV transmission cable. Approximately 2.2 miles would be installed in a trench in road ROWs to the edge of the Willamette River, approximately 0.5 miles of transmission cable would be installed under and across the bed of the Willamette River via horizontal directional drilling (HDD), and another 0.25 mile would be installed under and across the bed of the Columbia Slough via HDD. The trench for the underground HVAC transmission cables would be approximately 9 feet wide by 4.5 feet deep. Within the trench, a 9-foot-wide concrete casing would be placed, housing two sets of three 8-inch polyethylene (PE) conduits for transmission cables and a 4-inch PE conduit for fiber optic cable with 4 feet of separation between the sets. Under the Willamette River and Columbia Slough, each location would have two 34-inch bores 12 feet apart. Each bore would hold three 8-inch and one 4-inch high-density polyethylene

(HDPE) conduits. To cross highways, railroads, or sensitive areas, the transmission line would be placed with HDD or similar trenchless technology. No overhead transmission line structures would be used.

High Voltage Direct Current Transmission

The converter stations would be connected by a 320-kV or 400-kV (1,100-MW) HVDC transmission cable with associated fiber optic communications cable in underground conduits to the edge of the Columbia River on each end, and buried in the bed of the Columbia River in Oregon and Washington. The rated voltage of the HVDC cable system is currently 320kV, but could be changed to 400kV based on the potential for cost savings to be determined prior to final design. A 400-kV cable would be the same diameter as a 320-kV cable, and there would be no difference in performance.

To bypass the dam, locks, juvenile fish passage, and tribal fishing areas at the Bonneville Dam, the HVDC cable would be brought on land in Washington, east of the dam complex, buried underground on the Washington side of the Columbia River, and then re-enter the river west of the dam complex. The trench for underground HVDC transmission cable would be approximately 2.5 feet wide by 4.5 feet deep. Within the trench, a 6-inch thick concrete casing would be placed. The transmission cables would be placed in the casing in individual conduits spaced approximately 20 inches apart; two 8-inch conduits containing 5-inch conductor cables (one positive and one negative) and one 4-inch conduit containing a 1-inch fiber optic cable for communication. HDD would be used to transition the in-river cables to land. To cross highways, railroads, or sensitive areas, the transmission cable would be placed with HDD or similar trenchless technology.

Of the total transmission line length of approximately 98.5 miles, 95.8 miles would be HVDC cable as follows:

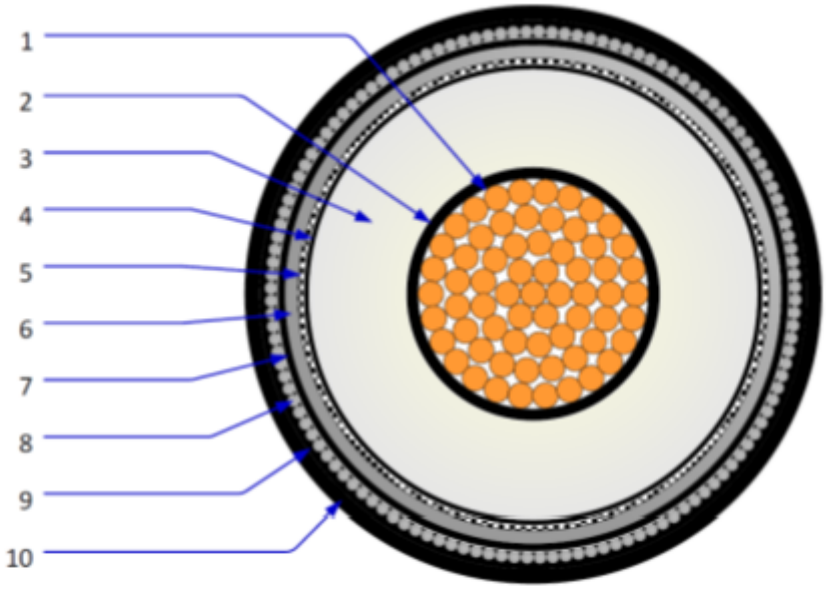
- Approximately 4.5 miles of underground HVDC transmission cable to from the eastern converter station to the edge of the Columbia River in Oregon.
- Approximately 4.4 miles of underground HVDC transmission cable from the edge of the Columbia River to the western converter station in Oregon.
- Approximately 7.6 miles of underground HVDC transmission cable to avoid Bonneville Locks and Dam in Washington.
- Approximately 46.7 miles of in-river HVDC transmission cable in the Columbia River bed in Oregon and approximately 32.6 miles of in-river HVDC transmission cable in the Columbia River bed in Washington.

HVDC In-River Transmission Cable

For the in-river transmission cable, the conductor is of a compacted circular design, constructed from annealed copper wires and filled with a water blocking material to limit water propagation in case of cable severance, as seen in Figure 2. The conductor has a nominal cross-sectional area of 2,500 square millimeters (mm^2). The conductor design meets the requirements laid down by Class 2 stranding per International Electrotechnical Commission (IEC) 60228. The overall in-river cable diameter is approximately 6 inches. The in-river transmission cable bundle, consisting of two 6-inch conductor cables and one fiber optic cable for communication, would be installed along approximately 82.1 miles of the Columbia River. The placement of the cable in the river would be

determined based on such considerations as the nature of the sediment, topography of the river bottom, the presence of underwater obstacles, and need to avoid sensitive habitats and cultural resources. As a preliminary estimate, subject to further studies, approximately 33 of the 82.1 in-river miles would be on the Washington side of the river in various locations (see Figure 1).

Figure 2. Cross Section of HVDC In-River Transmission Cable

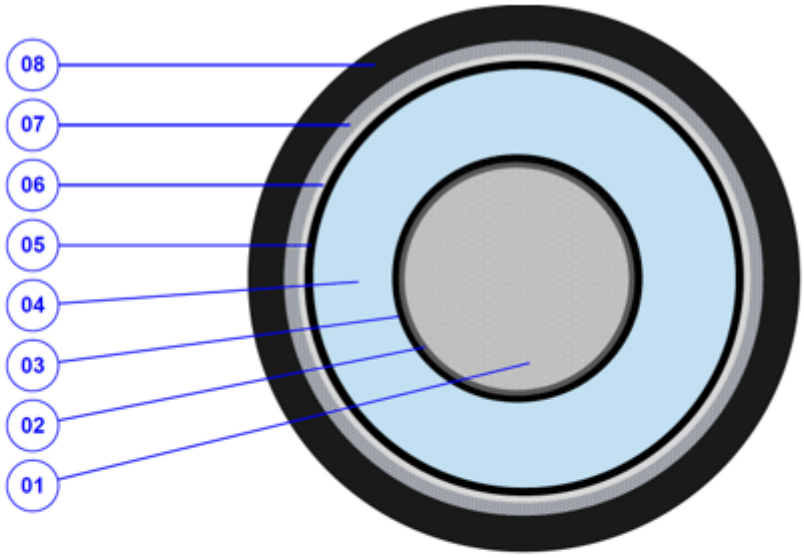


Item¤	Description¤
1¤	Conductor¤
2¤	Semi-conductive·water-swelling·tape¤
3¤	Semi-conductive·extruded·layer¤
4¤	Insulation¤
5¤	Semi-conductive·extruded·layer·+·Longitudinal·water·penetration·barrier¤
6¤	Metallic·Sheath¤
7¤	Anti-corrosion·sheath¤
8¤	Bedding·tape¤
9¤	Armour·wires¤
10¶	Serving¤

HVDC Underground Transmission Cable

For the underground transmission cable, the conductor is of a compacted circular design, constructed from annealed aluminum wires, as seen in Figure 3. The conductor has a nominal cross-sectional area of 3,000 mm^2. The conductor design meets the requirements laid down by Class 2 stranding per IEC 60228. The overall cable diameter is approximately 5 inches. Approximately 4.5 miles of underground transmission cable would be installed in a trench in road ROW from the eastern converter station to the edge of the Columbia River. Approximately 4.0 miles of underground transmission cable would be installed from the river to the western converter station.

Figure 3. Cross section of HVDC Underground Transmission Cable



Item¤	Description¤
1¤	Conductor¤
2¤	Semi-conductive·water·swelling·tape¤
3¤	Semi-conductive·extruded·layer¤
4¤	Insulation¤
5¤	Semi-conductive·extruded·layer¤
6¤	Longitudinal·water·penetration·barrier¤
7¤	Metallic·Sheath¤
8¤	Outer·PE·Layer¤

Fiber Optic Communications Cable

In order to provide the required remote monitoring telemetry, station control, and voice communications, a fiber optic cable would be installed along with the HVDC and HVAC cables.

1. Project Location

The facility would be located near The Dalles, Wasco County, Oregon, in the bed of the Columbia River (Oregon and Washington), in Stevenson and North Bonneville, Skamania County, Washington, and in Portland and under the Willamette River, Multnomah County, Oregon (Figure 1).

Following are the legal descriptions (townships, ranges, and sections) of components located in Washington:

T02N R07E S01
T02N R07E S02
T02N R07E S10
T02N R07E S11
T02N R07E S14
T02N R07E S15

T02N R07E S16
T02N R07E S20
T02N R07E S21
T02N R07E S22
T02N R07E S29

The location of the Project specific to Washington would include the HVDC transmission line

- in the bed of the Columbia River where it would cross into Washington jurisdiction;
- where the transmission line would exit the water and come on shore near Stevenson and be buried in a trench in road ROW along Washington State Route 14 (SR 14), and Ash Lake Road to the southwest to Fort Cascades Drive in North Bonneville; and
- where the transmission line would re-enter the Columbia River below the Bonneville Lock and Dam.

Appendix B – Public Participation Plan

Public Participation Plan

Cascade Renewable Transmission

December 2023

Contents

Tables

Figures

Acronyms and Abbreviations

Applicant	CRT, LLC
GHG	greenhouse gas
HB	House Bill
HVDC	high-voltage direct current
kV	kilovolt
MW	megawatt
OR EFSC	Oregon Energy Facility Siting Council
PPP	Public Participation Plan
Project	Cascade Renewable Transmission Project
ROD	record of decision
ROW	right-of-way
USACE	United States Army Corps of Engineers
WA EFSEC	Washington State Energy Facility Site Evaluation Council

1 Introduction and Purpose

The purpose of the Public Participation Plan (PPP) is to outline the communications and engagement approach the proposed Cascade Renewable Transmission Project (Project) will employ to inform and involve the public, local agencies and governments, as required by the Washington State Energy Facility Site Evaluation Council (WA EFSEC) process WAC 463-61-050. The PPP includes core messages and engagement milestones and summarizes the likely communications and public involvement tools associated with the effort.

2 Goals

The goals listed in Table 1 will be woven into all communications and public involvement activities for the WA EFSEC process.

Table 1. Goals of the PPP

Goal	Why is this important?
Effectively Deliver Information	Useful, audience-centered information is essential for an informed perspective on this proposed project, which results in more informed comments.
Transparency	Facilitates establishing CRT, LLC (Applicant) as a trusted, respectful entity capable of listening and responding to concerns from interested parties.
Ease of Engagement	Providing multiple options for soliciting comments from interested parties encourages efficient issue identification, allows parties to feel heard, and demonstrates Applicant's respect for local communities.
Communicate Clearly	Utility industry-related projects can be complicated and highly technical. To the greatest extent possible, plain language will be used throughout the effort to aid comprehension by lay audiences. Public-facing materials will be translated into Spanish.
Early Issue Identification	Enables the Applicant, interested parties, and regulators to work together to address issues before they become unmanageable.
Regulatory Compliance	Adhering to state and federal regulations is a fundamental requirement for this proposed project to progress.

3 Project Overview

The proposed Project aims to address regional transmission capacity needs for renewable energy by installing a 320-kilovolt (kV) to 400-kV (1,100 megawatt [MW]) high-voltage direct current (HVDC) transmission line underground in existing road rights-of-way (ROWs) and in the bed of the Columbia River. The cable would extend roughly 94.6 miles from The Dalles, Oregon, to Portland, Oregon. Two converter stations would be located near existing substations—one in The Dalles and one in Portland. When completed, this new transmission line would have the capacity to supply enough power for approximately 800,000 homes. The proposed transmission line would include a 7.5-mile bypass around Bonneville Dam. Figures 1 through 4 present a geographic overview of the proposed Project.

Figure 1. Proposed Project Map

Figure 2. Proposed Project Map – The Dalles

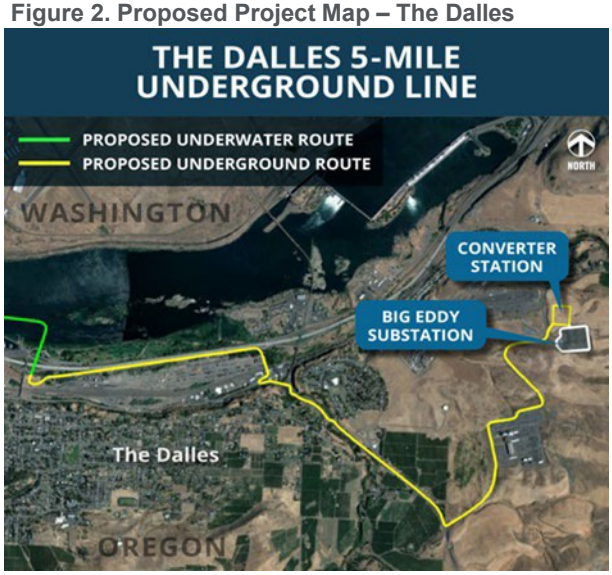


Figure 3. Proposed Project Map – Portland

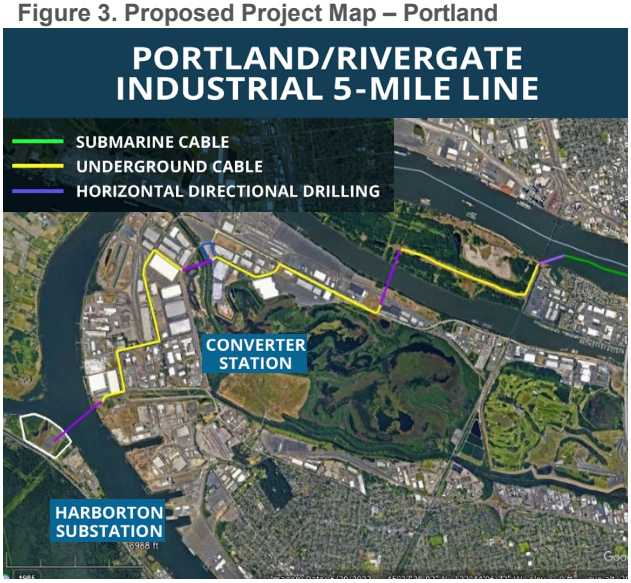


Figure 4. Proposed Project Map – Bonneville Dam

4 Proposed Project Schedule

The Preapplicant anticipates submitting the Pre-application Request to Washington Energy Facility Site Evaluation Council (WA EFSEC) in December 2023 and the application in early to mid-2024. Facility construction is anticipated to begin 2026, pending issuance of a site certificate from the Oregon Energy Facility Siting Council (OR EFSC), site certification from the WA EFSEC, and a record of decision (ROD) from the U.S. Army Corps of Engineers (USACE). The start of commercial operation is anticipated for the end of 2028, though the Applicant, CRT, LLC, will try to bring the facility online earlier, if achievable. The converter stations would be built at the same time and would take approximately 2 years, beginning in July 2026 and finishing in December 2028. The underground transmission cable would be installed from roughly September 2028 to February 2029 (approximately 6 months), and the in-river transmission cable installation would occur in two campaigns from roughly November 2026 to February 2027 to follow the in-water work windows on the Columbia River for Oregon and Washington.

4.1 Overview of PPP Implementation Schedule

State of Washington regulations and the WA EFSEC process require project applicants to undertake specific activities in a specified order and within a finite amount of time. Table 2 summarizes the flow of relevant activities associated with the public communication and involvement efforts.

Table 2. PPP Implementation Schedule

Timeframe Associated with Proposed Project Permitting**	Activity	Primary Public Communication Materials Needed	Details/Notes (if needed)
The date applicant files the request to WA EFSEC**	Applicant files the pre-application request to WA EFSEC	The PPP must be included in the application	The specific date the applicant will file with WA EFSEC is to be determined (TBD).
Within 3 days of the filing date**	Send “Notice of Pre-application Request” to interested parties	• Project factsheet • Website update including a link to EFSEC webpage for the Project	HDR sends to the interested parties identified in the appendix included in the application
During the next 57 days**	Hold three virtual public informational meetings in Skamania, Klickitat and Clark counties	• Project factsheet • Project displays • Website updates (applicant and WA EFSEC)	WA EFSEC to identify locations, organize meetings, and issue official notices
14 days before each public informational meeting**	Issue public notices of the three public informational meetings	• Direct mail postcard • E-mails • Website • Press releases • Newspaper ads	

***Indicates where identifying specific dates depend on when CRT, LLC files its Pre-Application Request with WA EFSEC.*

Note: Public-facing materials will be available in Spanish.

5 Summary of PPP Roles and Responsibilities

Table 3 outlines the responsibilities associated with implementing the PPP. These may change over time and will be reflected in an updated PPP, if needed.

Table 3. PPP Roles and Responsibilities

CRT Team *Contact – Chris Hocker*	HDR Outreach Team *Contact – Jonathan Hutchison*	WA EFSEC
• Oversees their (the applicant's) outreach strategy • Approves their (the applicant's) public-facing materials • Responds to project-related public inquiries (emails, phone calls, etc.) • Attends the three public informational meetings (virtually or in person) • Serves as media contact • Updates their (the applicant's) project website • Forwards public comments sent to the applicant directly to WA EFSEC for inclusion into the public record.	• Develops the applicant's public outreach strategy • Oversees development and translation of the applicant's public-facing materials • Sends "Notice of Pre-Application Request" • Attends the three public informational meetings (virtual and in-person)	• Issues official notices for three public informational meetings • Attends the three public informational meetings • Organizes logistics for the three public informational meetings • Updates the WA EFSEC website • Collects and processes comments sent to WA EFSEC directly

6 Key Messages

The following are the foundational messages the project will convey throughout the PPP process.

- Washington and Oregon have laws requiring the increasing use of carbon-free electricity.
    - Washington – 80% Greenhouse Gas (GHG) reduction by 2030 and 100% emission-free by 2045 (Clean Energy Transformation Act)
    - Oregon – 80% GHG reduction by 2030 and 100% emission-free by 2040 (Oregon House Bill [HB] 2021)
- The most appropriate sites for large-scale wind, solar, and other renewables are generally east of the Cascades, and the population centers are primarily west of the Cascades.
- Existing east-to-west transmission infrastructure cannot accommodate the projected growth of renewable power needed to meet legal mandates.
- Overhead transmission lines can be problematic due to the potential for damage during wildfires and from snow and ice.
- The proposed Project would minimize environmental impacts to the greatest extent possible to meet or exceed federal, state, and local environmental requirements, while honoring Tribal Nations' needs.
- To be on the project notice distribution list and have their comments included in the public record, individuals need to sign up with WA EFSEC and share their comments directly with WA EFSEC.

7 Applicant Responses to Information Requests

Once public notices have been sent, during the three WA EFSEC informational meetings and at other points during the project permitting process, it is likely the Applicant will receive informational requests from a variety of interested parties, including but not limited to the public, federal, state, and local agencies, Tribal Nations, and other entities that could have a permitting role related to the proposed Project. These requests could come via the applicant's Project website, comments via WA EFSEC's website, telephone, and inquiries by mail to the Project sponsor.

Throughout the permitting process, Applicant will maintain a contact log detailing the date the inquiry was received, how it was made, and a summary of the inquiry, along with a summary of the response, needed follow-up actions, and the date the matter was addressed. A synopsis of this inquiry log will be shared with WA EFSEC.

Applicant contact information:

Contact: Chris Hocker, Vice President of Planning, PowerBridge

Mailing Address: Cascade Renewable Transmission Project
501 Kings Highway East, Suite 300
Fairfield, CT 06825

Phone Number: (203) 416-5590

Email Address: chocker@powerbridge.us

Website: www.cascaderenewable.com

In addition to the applicant's responses to inquiries received during the WA EFSEC process, the Applicant is engaging Tribal Nations via a separate process, which will continue throughout the WA EFSEC process and beyond. The Applicant is also organizing regular agency coordination meetings to solicit input from multiple federal, state, and regional agency representatives in both Washington and Oregon. Currently, this effort includes over 80 individuals, and these meetings will continue throughout the permitting process.

8 Filing Locations

The locations where filings would be posted include:

- Skamania County
  - Stevenson – City of Stevenson City Hall; 7121 E. Loop Road
  - North Bonneville – City of North Bonneville City Hall; 214 CBD Mall Drive
- Klickitat County – City of White Salmon City Hall; 100 N. Main Street
- Clark County – City of Vancouver, WA City Hall; 415 W. 6th Street

9 Communication and Engagement Tools

The following section includes a suite of potential communication and engagement tools for use during the PPP effort. This list may be refined as the PPP is implemented.

9.1 Project Website

The proposed Project has an existing website, which will be modified by adding a banner and a link to the WA EFSEC project-specific website (link forthcoming), which will provide logistical details regarding the three public informational meetings.

9.2 Project Fact Sheet

A fact sheet regarding the proposed Project will be prepared (one page, two-sided) as a handout or email attachment in English and Spanish. The fact sheet will provide an overview of the proposed Project, schedule, key messages, project contact information, and opportunities for interested party engagement. The fact sheet could also be used as a direct mail informational piece.

9.3 Local Open Houses

There will be a total of three in-person open house-style public informational meetings in Clark, Klickitat, and Skamania counties (one per county). WA EFSEC will coordinate the meeting logistics and post the formal notices in accordance with WA EFSEC requirements.

Several tools will be used to let interested parties and the public know about these events:

- Direct mailings
- Updates to the applicant's project website
- Press releases
- Newspaper ads
- WA EFSEC website

The Applicant and WA EFSEC will collaborate to develop detailed plans for the three open houses.