

Exhibit C Project Location

Boardman to Hemingway Transmission Line Project



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Application for Site Certificate

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TABLE OF CONTENTS

1.0	INTRODUCTION.....	C-1
2.0	APPLICABLE RULES AND SECOND AMENDED PROJECT ORDER PROVISIONS.....	C-4
2.1	Site Certificate Application Requirements	C-4
2.2	Second Amended Project Order Provisions.....	C-4
3.0	ANALYSIS.....	C-5
3.1	Maps Showing the Proposed Locations.....	C-5
3.2	Description of the Proposed Locations.....	C-5
3.2.1	Proposed Longhorn Station and Proposed Route	C-7
3.2.2	Alternative Routes.....	C-19
3.2.3	Proposed and Alternative Communication Station Sites.....	C-22
3.3	Temporary Uses.....	C-24
3.3.1	Multi-use Areas	C-24
3.3.2	Light-Duty Fly Yards	C-25
3.4	Disturbance	C-25
3.5	Site Boundary.....	C-29
4.0	CONCLUSIONS.....	C-31
5.0	COMPLIANCE CROSS-REFERENCES.....	C-31
6.0	REFERENCES.....	C-33

LIST OF TABLES

Table C-1. Route Mileage Summary by Land Manager/Owner ¹	C-6
Table C-2. Proposed Route Features – Morrow County	C-7
Table C-3. Proposed Route Features – Umatilla County	C-9
Table C-4. Proposed Route Features – Union County	C-11
Table C-5. Proposed Route Features – Baker County	C-13
Table C-6. Proposed Route Features – Malheur County	C-16
Table C-7. West of Bombing Range Road Alternative 1 Features – Morrow County	C-19
Table C-8. West of Bombing Range Road Alternative 2 Features – Morrow County	C-20
Table C-9. Morgan Lake Alternative Features – Union County	C-21
Table C-10. Double Mountain Alternative Features – Malheur County	C-22
Table C-11. Proposed Route – Communication Station Sites	C-23
Table C-12. Morgan Lake Alternative – Communication Station Site	C-23
Table C-13. Double Mountain Alternative – Communication Station Site	C-23
Table C-14. Proposed Route – Multi-use Area Sites	C-24
Table C-15. Morgan Lake Alternative – Multi-use Area Sites	C-25
Table C-16. Double Mountain Alternative – Multi-use Area Sites	C-25
Table C-17. Light-Duty Fly Yards	C-25
Table C-18. Proposed Route – Acres of Land Disturbed during Construction and Operation	C-26
Table C-19. West of Bombing Range Road Alternative 1 – Acres of Land Disturbed during Construction and Operation	C-27
Table C-20. West of Bombing Range Road Alternative 2 – Acres of Land Disturbed during Construction and Operation	C-28
Table C-21. Morgan Lake Alternative – Acres of Land Disturbed during Construction and Operation	C-28
Table C-22. Double Mountain Alternative – Acres of Land Disturbed during Construction and Operation	C-28
Table C-23a. Estimated Forest Clearing for All Project Features – Proposed Route	C-29
Table C-23b. Estimated Forest Clearing for All Project Features – Morgan Lake Alternative	C-29
Table C-24. Site Boundary and Average Temporary/Permanent Disturbance Areas by Project Component	C-29
Table C-25. Compliance Requirements and Relevant Cross-References	C-31

LIST OF FIGURES

Figure C-1. Map of Proposed Route	C-2
Figure C-2. Map of Alternative Routes and 230-kV and 138-kV Rebuilds	C-3

LIST OF ATTACHMENTS

Attachment C-1. Proposed Station Location
Attachment C-2. Proposed Route Location
Attachment C-3. Alternative Route Locations

ACRONYMS AND ABBREVIATIONS

ACEC	Area of Critical Environmental Concern
BLM	Bureau of Land Management
BOR	Bureau of Reclamation
BPA	Bonneville Power Administration
CS	communication station
DoD	Department of Defense
EFSC or Council	Energy Facility Siting Council
ft	feet
GIS	geographic information system
HMA	Habitat Management Area
I-84	Interstate 84
IPC	Idaho Power Company
kV	kilovolt
LDFY	light-duty fly yard
MP	milepost
MUA	multi-use area
NF	National Forest
NWSTF	Naval Weapons Systems Training Facility
OAR	Oregon Administrative Rule
ODOE	Oregon Department of Energy
OPRD	Oregon Parks and Recreation Department
Project	Boardman to Hemingway Transmission Line Project
RNA	Research Natural Area
ROW	right-of-way
SAG	Special Advisory Groups
Second Amended Project Order	Second Amended Project Order, Regarding Statutes, Administrative Rules, and Other Requirements Applicable to the Proposed BOARDMAN TO HEMINGWAY TRANSMISSION LINE (July 26, 2018)
U.S.	United States
USFS	United States Forest Service
WMA	Wildlife Management Area

Exhibit C Project Location

1.0 INTRODUCTION

Exhibit C provides information about the location of the Boardman to Hemingway Transmission Line Project (Project). The Project may be located anywhere within the Site Boundary, which represents the perimeter of the site of the proposed Project, its related and supporting facilities, the temporary laydown and staging areas, and the proposed and alternative transmission line routes. The final location of the Project within the Site Boundary will depend on topography, landowner preference, and other factors.

The following Project features will be located within the Site Boundary:

- The Proposed Route, consisting of 270.8 miles of new 500-kilovolt (kV) electric transmission line, removal of 12 miles of existing 69-kV transmission line, rebuilding of 0.9 mile of a 230-kV transmission line, and rebuilding of 1.1 miles of an existing 138-kV transmission line;
- Four alternatives that each could replace a portion of the Proposed Route, including the West of Bombing Range Road Alternative 1 (3.7 miles), West of Bombing Range Road Alternative 2 (3.7 miles), Morgan Lake Alternative (18.5 miles), and Double Mountain Alternative (7.4 miles);
- One proposed 20-acre station (Longhorn Station);
- Ten communication station (CS) sites of less than ¼-acre each and two alternative communication station sites;
- Permanent access roads for the Proposed Route, including 206.3 miles of new roads and 223.2 miles of existing roads requiring substantial modification, and for the Alternative Routes, including 30.2 miles of new roads and 22.7 miles of existing roads requiring substantial modification; and
- Thirty temporary multi-use areas and 299 pulling and tensioning sites of which four will have light-duty fly yards within the pulling and tensioning sites.

The Site Boundary width or size is described in Section 3.5 and Table C-24 of this exhibit. The Project features are described in detail in Exhibit B.

The following map, Figure C-1 on the following page, shows the location of the Proposed Route. Figure C-2 shows the alternative routes and the 230-kV and 138-kV rebuilds.

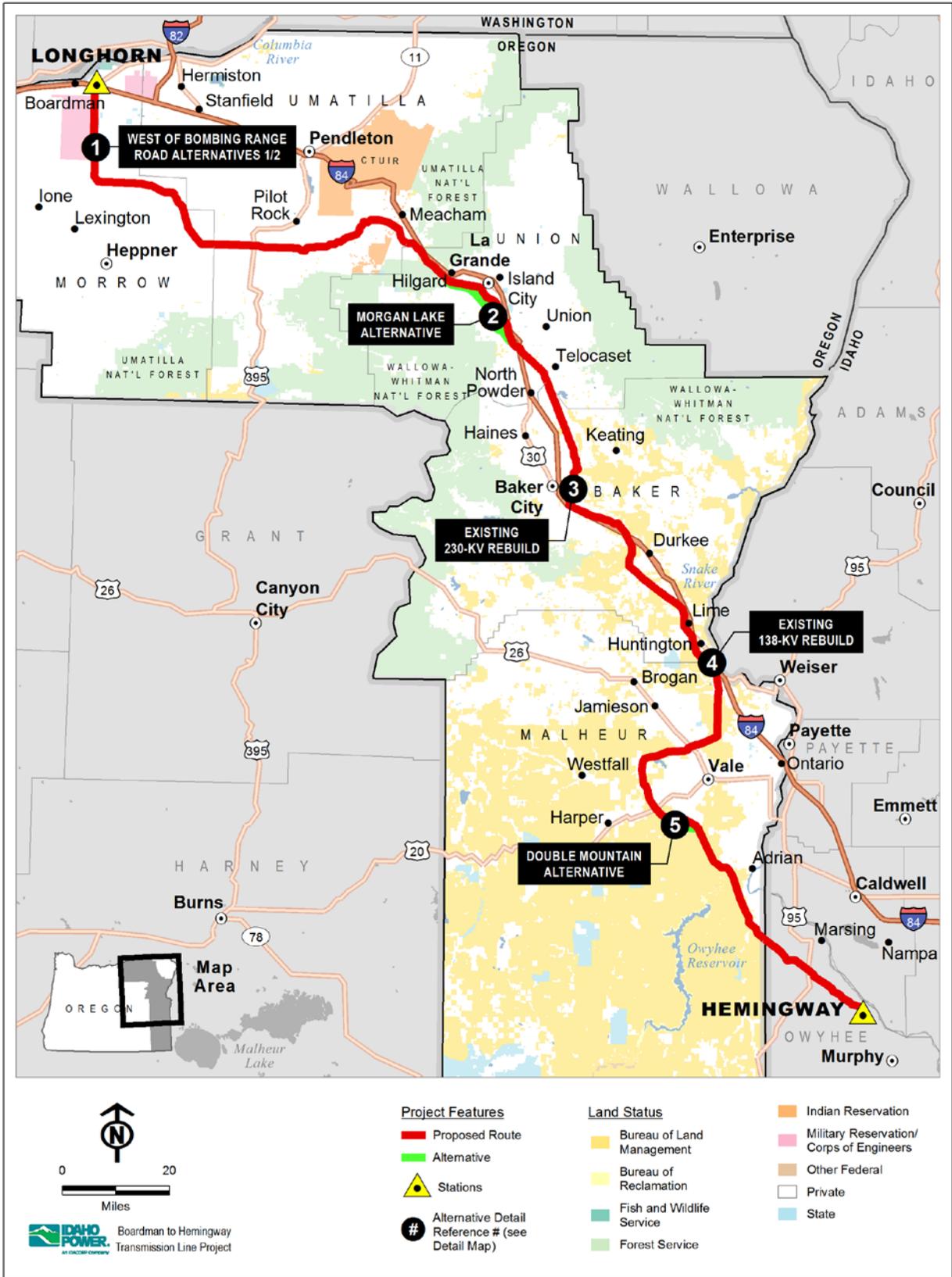


Figure C-1. Map of Proposed Route

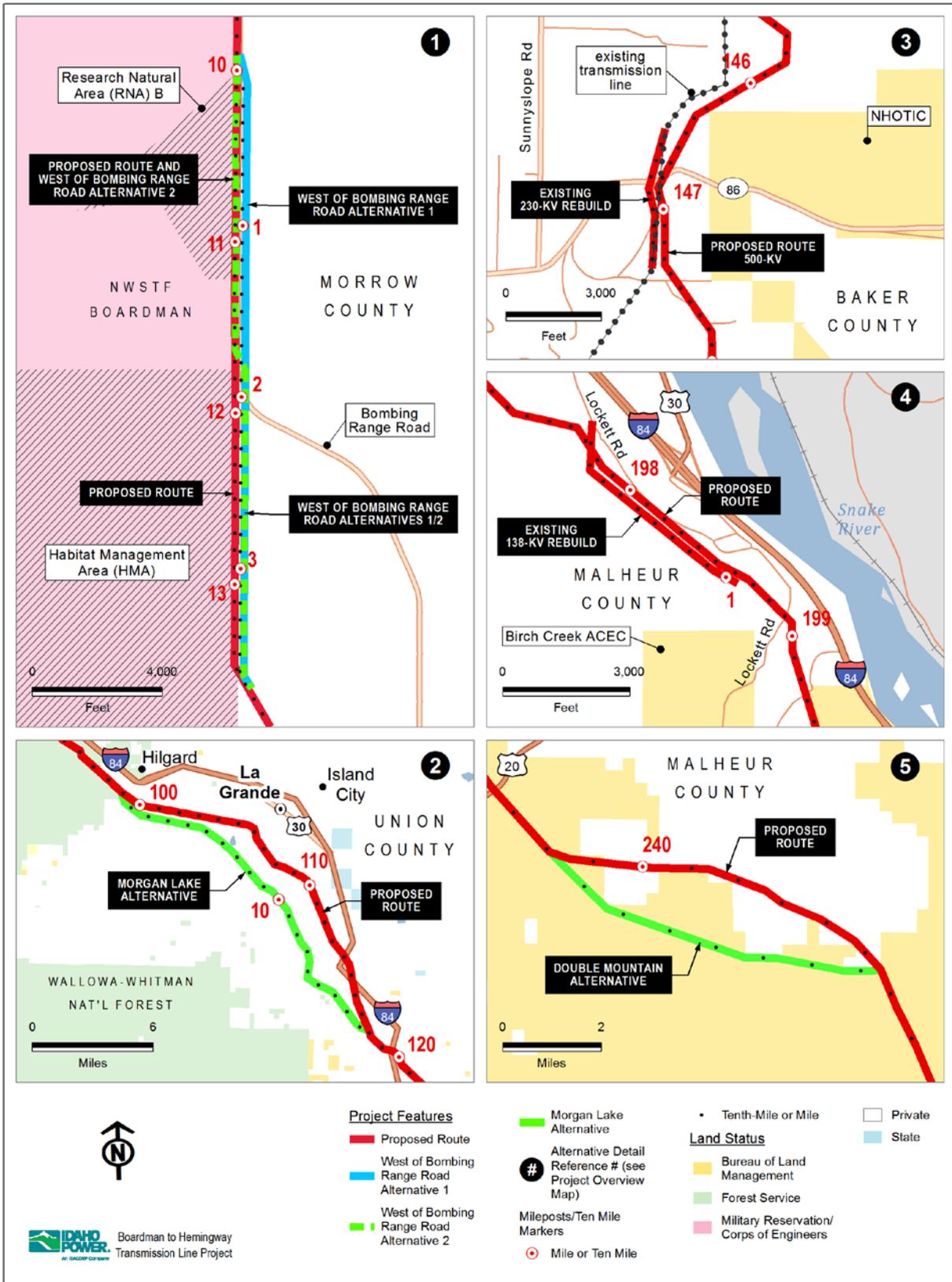


Figure C-2. Map of Alternative Routes and 230-kV and 138-kV Rebuilds

2.0 APPLICABLE RULES AND SECOND AMENDED PROJECT ORDER PROVISIONS

2.1 Site Certificate Application Requirements

Oregon Administrative Rule (OAR) 345-021-0010(1)(c) provides that Exhibit C must include:

(A) A map or maps showing the proposed locations of the energy facility site, all related or supporting facility sites and all areas that might be temporarily disturbed during construction of the facility in relation to major roads, water bodies, cities and towns, important landmarks and topographic features, using a scale of 1 inch = 2000 feet or smaller when necessary to show detail.

(B) A description of the location of the proposed energy facility site, the proposed site of each related or supporting facility and areas of temporary disturbance, including the total land area (in acres) within the proposed site boundary, the total area of permanent disturbance, and the total area of temporary disturbance. If a proposed pipeline or transmission line is to follow an existing road, pipeline or transmission line, the applicant shall state to which side of the existing road, pipeline or transmission line the proposed facility will run, to the extent this is known.

(C) For energy generation facilities, a map showing the approximate locations of any other energy generation facilities that are known to the applicant to be permitted at the state or local level within the study area as defined in OAR 345-001-0010 for impacts to public services.¹

2.2 Second Amended Project Order Provisions

The Second Amended Project Order includes the following discussion regarding Exhibit C:

Maps shall indicate the “site boundary” as defined in OAR 345-001-0010(55). Maps shall provide enough information for property owners potentially affected by the facility to determine whether their property is within or adjacent to the site boundary. Major roads shall be named. IPC shall include maps drawn to a scale of 1 inch = 2,000 feet or smaller when necessary to show detail. The Department requests that IPC share GIS data for the proposed facility in a format that is compatible with current Department software programs; accurate GIS data will help streamline the application review process for the Department and reviewing agencies.

Maps shall clearly show the boundaries of the proposed corridor within which the transmission line would be constructed, and shall include familiar landmarks such as roads and existing power lines that reviewing agencies and affected landowners may use to identify the proposed route. Aerial photographs with all roads identified are helpful for public interpretation and review. The site boundaries of all proposed related or supporting facilities, including but not limited to access roads, temporary laydown areas, switching stations/substations, must also be identified. Maps showing access roads included as related or supporting facilities shall clearly depict where existing roads or road segments are proposed to be in the site boundary. Also, clearly identify the county and city jurisdictions in which facility components are proposed to be located. All county and city jurisdictions in which facility components are proposed to be located are appointed as SAGs by EFSC.

¹ The Project does not include an energy generation facility, and therefore, OAR 345-021-0010(1)(c) is not applicable to the Project.

Exhibit C shall contain a table listing the approximate land areas for both temporary disturbance associated with construction and permanent footprint of structures associated with facility operation for each type of disturbance or structure. This information needs to be consistent with information provided in other exhibits.

(Second Amended Project Order, Section III(c)).

3.0 ANALYSIS

3.1 Maps Showing the Proposed Locations

OAR 345-021-0010(1)(c): Exhibit C: Information about the location of the proposed facility, including: (A) A map or maps showing the proposed locations of the energy facility site, all related or supporting facility sites and all areas that might be temporarily disturbed during construction of the facility in relation to major roads, water bodies, cities and towns, important landmarks and topographic features, using a scale of 1 inch = 2000 feet or smaller when necessary to show detail.

The location of the Proposed Route, alternative routes, the related or supporting facilities, and the areas that might be temporarily disturbed during the construction of the facilities are provided in Attachment C-1, Attachment C-2, and Attachment C-3 as follows.

- Attachment C-1 provides a map showing the location of the Longhorn Station. The scale of the map is 1 inch equals 1,000 feet.
- Attachment C-2 contains a map-set organized by county proceeding north to south showing the location of the Proposed Route. Each set of county maps includes a county overview map and a series of detailed maps that are at a scale of 1 inch equals 1,000 feet. Project features shown include the Site Boundary, access roads, stations, communication station sites, and communication distribution lines within the Idaho Power Company (IPC) service area. Temporary project features are also shown, including structure work areas, multi-use areas, pulling and tensioning sites, and light-duty fly yards.
- Attachment C-3 contains a map-set showing the alternative routes. This map-set is organized by alternative proceeding north to south and is at a scale of 1 inch equals 1,000 feet.

3.2 Description of the Proposed Locations

OAR 345-021-0010(1)(c)(B): A description of the location of the proposed energy facility site, the proposed site of each related or supporting facility and areas of temporary disturbance including the approximate land area of each. If a proposed pipeline or transmission line is to follow an existing road, pipeline or transmission line, the applicant shall state to which side of the existing road, pipeline or transmission line the proposed facility will run, to the extent this is known;

The Project will occur on federal, state, and private lands in five counties in Oregon and one county in Idaho. The description of the Project contained herein is limited to the Project features located in Oregon. Table C-1 describes the ownership of the lands where the Proposed Route and alternative routes will be located.

1 **Table C-1. Route Mileage Summary by Land Manager/Owner¹**

Route Name	County	Total Miles	BLM		BOR		DoD/ USACE		State		Private		USFS	
			Miles	%	Miles	%	Miles	%	Miles	%	Miles	%	Miles	%
Proposed Route														
Proposed Route	Morrow	47.5	–	–	–	–	10.5	22%	–	–	36.9	78%	–	–
	Umatilla	40.9	–	–	–	–	–	–	–	–	40.9	100%	–	–
	Union	39.9	0.2	<1%	–	–	–	–	1.1	3%	31.5	81%	7.1	18%
	Baker	68.4	11.9	17%	–	–	–	–	–	–	56.5	83%	–	–
	Malheur	74.1	53.3	72%	0.5	1%	–	–	–	–	20.2	27%	–	–
230-kV Rebuild	Baker	0.9	–	–	–	–	–	–	–	–	0.9	100%	–	–
138-kV Rebuild	Malheur	1.1	–	–	–	–	–	–	–	–	1.1	100%	–	–
69-kV Removal ²	Morrow	12.0	–	–	–	–	10.5	88%	–	–	1.5	13%	–	–
Alternative Routes														
West of Bombing Range Road 1	Morrow	3.7	–	–	–	–	0.1	3%	–	–	3.6	97%	–	–
West of Bombing Range Road 2	Morrow	3.7	1.8	49%	–	–	–	–	–	–	1.9	51%	–	–
Morgan Lake	Union	18.5	0.8	4%	–	–	–	–	–	–	17.7	96%	–	–
Double Mountain	Malheur	7.4	7.4	100%	–	–	–	–	–	–	–	–	–	–

¹ All totals are rounded and may not sum exactly. Dash indicates zero.

² Miles of 69-kV removal are not included in total route summary.

BLM – U.S. Department of the Interior, Bureau of Land Management; BOR – Bureau of Reclamation; DoD – Department of Defense; USACE – United States Army Corps of Engineers; USFS – United States Forest Service.

Certain multi-use areas (MUA) will be located within the cities of North Powder (27 acres) and Huntington (8.8 acres). MUAs are identified by the first two letters of the county they are in and numbered from north to south. For example, the first multi-use area in Morrow County is labeled as MUA MO-01. Light-duty fly yards (LDFY) are labeled in a similar fashion.

3.2.1 Proposed Longhorn Station and Proposed Route

3.2.1.1 Proposed Longhorn Station

The northern terminus for the Project is the proposed Longhorn Station. Bonneville Power Administration (BPA) has planned the Longhorn Station on land it purchased from the Port of Morrow. In this application, IPC is requesting authorization to develop (construct and operate) the Longhorn Station if BPA does not develop the Longhorn Station on a timely basis.

The Longhorn Station will be approximately 20 acres in size and will be located just west of the Port of Morrow, about 0.25 to 0.5 mile north of Interstate 84 (I-84) (see Attachment C-1, Figure C-1). BPA has planned the Longhorn Station to allow a 230-kV connection to the 500-kV transmission grid for an unrelated wind project. Typical equipment proposed to support the Project termination is described in Exhibit B, Section 3.2.

3.2.1.2 Proposed Route

The Proposed Route is described below by county.

Segment 1 – Morrow County

The Proposed Route crosses approximately 47.5 miles in Morrow County beginning at the proposed Longhorn Station (see Attachment C-2, Maps 1-23). The predominant land uses are irrigated agriculture, dryland farming, rangeland, and the Naval Weapons Systems Training Facility (NWSTF) Boardman. Table C-2 lists the Project features and existing roads, railroads, and transmission lines crossed by the Proposed Route. Table C-18 lists the acres that would be disturbed during Project construction or affected during operations.

Table C-2. Proposed Route Features – Morrow County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	147
Towers – Single Circuit 500-kV H-Frame	73
Towers – Single Circuit 500-kV 3-Pole Dead-end	1
Communication Station(s)	1
Light Duty Fly Yards	0
Multi-Use Areas	5
Pulling and Tensioning Sites	39
Station	1
Access Roads	Total Miles
Existing, 21-70% Improved	19.4
Existing, 71-100% Improved	10.8
New, Bladed	1.4
New, Primitive	10.6

Crossings by Proposed Route	Number of Crossings
High-Voltage Transmission Line Crossings ¹	1
Existing Road Crossings ²	3
Existing Railroad Crossings ³	1

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

The Proposed Route exits the Longhorn Station to the west, generally paralleling an existing 500-kV transmission line for about 0.3 miles. The Proposed Route then turns south and crosses I-84, coming in parallel with Bombing Range Road on the east side until milepost (MP) 1.2. At that point, the Proposed Route crosses but stays in parallel with the west side of Bombing Range Road. At MP 3.0, the Proposed Route enters the NWSTF Boardman property utilizing the existing 90-foot-wide BPA 69-kV right-of-way (ROW). Structures for the portion of the Project within the existing BPA ROW will be 100 feet or less in height. From MP 7 to MP 9, the Proposed Route passes through the NWSTF Boardman approach zone easement; tower heights in this stretch also will be less than 100 feet.

From MP 10 to MP 11.2, the Proposed Route crosses a portion of the Boardman Research Natural Area (RNA) located on NWSTF Boardman. The Boardman RNA was established in 1978 as part of a federal government system established for research and educational purposes. It is co-managed by the Navy and The Nature Conservancy.

From MP 11.7 to MP 13.5 the Proposed Route crosses a portion of the NWSTF Boardman's Habitat Management Area (HMA). The Boardman HMA was established in 2016 as mitigation for training impacts to the Washington ground squirrel.

At MP 13.5, the Proposed Route leaves the existing BPA 69-kV ROW and the NWSTF Boardman and proceeds in a southeasterly direction. At MP 15.4, the irrigated agriculture along the Proposed Route comes to an end and dryland farming becomes the dominant land use. At MP 18, the Proposed Route turns southeast and then at MP 19.3 turns due east crossing Bombing Range Road. The Proposed Route continues due east crossing lands under dryland farming practices. At MP 21.2 the Proposed Route crosses State Highway 207, at MP 27.5 it crosses Pine City Road and Little Butter Creek, at MP 28.3 it crosses Butter Creek and Big Butter Creek Lane, and at MP 34 it again crosses Big Butter Creek Lane and Butter Creek.

From MP 34, the Proposed Route proceeds generally south paralleling a tributary of Buttermilk Creek. At MP 43.2, the Proposed Route crosses Huges-Hirl Road and Matlock Canyon. At MP 44.9, the Proposed Route turns due east and, at MP 47. 1, it crosses State Highway 74. The Proposed Route exits Morrow County at MP 47.5 and continues into Umatilla County.

There will be five multi-use areas in Morrow County. Table C-14 identifies the location, size, and land status of each of the multi-use areas.

- MUA MO-01 will be located approximately 0.75 mile northeast of MP 1.0 and approximately 0.25 mile southeast of the Longhorn Station. This site is immediately north of U.S. Highway 730. The land comprises grassland and is zoned Port Industrial by Morrow County (Attachment C-2, Map 1).
- MUA MO-02 will be located approximately 2 miles southeast of MP 18.8, adjacent to State Highway 207. The land comprises grassland and is zoned as Agriculture – Exclusive Farm Use by Morrow County (Attachment C-2, Map 10).

MUA MO-03 will be located along Big Butter Creek Lane. The land comprises grassland and is zoned as Agriculture – Exclusive Farm Use by Morrow County (Attachment C-2, Map 13).

- MUA MO-04 will be located approximately 0.1 mile south of MP 34 along Big Butter Creek Lane. The land comprises grassland and is zoned as Agriculture – Exclusive Farm Use by Morrow County (Attachment C-2, Map 15).
- MUA MO-05 will be located approximately 1.6 miles south of MP 46 along State Highway 74. The land comprises grassland and is zoned as Agriculture – Exclusive Farm Use by Morrow County (Attachment C-2, Map 23).

There are no light-duty fly yards in Morrow County.

There is one communication station in Morrow County. Table C-11 identifies the location of each of the communication stations.

- CS MO-01 will be located at approximately MP 21.2 and is directly north of State Highway 207. The land comprises a dryland wheat field and is zoned as Agriculture – Exclusive Farm Use by Morrow County (Attachment C-2, Map 9).

Segment 2 – Umatilla County

The Proposed Route crosses approximately 40.8 miles of privately-owned land in Umatilla County (see Attachment C-2, Maps 24-44). Table C-3 lists the Project features and existing roads, railroads, and transmission lines crossed by the Proposed Route. Table C-18 lists the acres that would be disturbed during construction or affected during operations.

Table C-3. Proposed Route Features – Umatilla County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	161
Communication Station(s)	2
Light Duty Fly Yards	1
Multi-Use Areas	7
Pulling and Tensioning Sites	41
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	15.6
Existing, 71-100% Improved	21.2
New, Bladed	5.1
New, Primitive	7.4
Crossings by Proposed Route	Number of Crossings
High-Voltage Transmission Line Crossings ¹	0
Existing Road Crossings ²	1
Existing Railroad Crossings ³	0

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

The Proposed Route crosses into Umatilla County from Morrow County at MP 47.5, approximately 4 miles southwest of the community of Vinson, Oregon. The Proposed Route proceeds due east through lands predominantly under dryland farming practice and zoned as

Exclusive Farm Use. At MP 50.0, the Proposed Route crosses U.S. Route 395 and Butter Creek. At MP 58.6, the Proposed Route crosses Bear Creek, and then at MP 59.7 it crosses West Birch Creek. At MP 64.7, the Proposed Route crosses East Birch Creek. At this point, the Proposed Route is approximately 5.5 miles south of the town of Pilot Rock. Now heading northeast, the Proposed Route begins climbing into the foothills of the Blue Mountains. Land use transitions from dryland farming to open rangeland with scattered timber stands along north-facing slopes. At MP 75.6, the Proposed Route crosses McKay Creek.

After crossing McKay Creek, the Proposed Route turns north and proceeds across rangeland with scattered stands of trees for about 2.5 miles before turning again to the east. Here the Proposed Route enters predominantly forested lands for roughly the next 10 miles. Between MP 84 and MP 85, approximately 2.8 miles southwest of the community of Meacham, the Proposed Route remains west of a segment of the Blue Mountain Forest State Scenic Route, passing into Union County at MP 88.3.

There will be seven multi-use areas in Umatilla County. Table C-14 identifies the location, size, and land status of each of the multi-use areas.

- MUA UM-01 will be in the northwest part of the county adjacent to Interstate 82 approximately 0.6 mile north of I-84. The land is bare. The western two-thirds is zoned by Umatilla County as Light Industrial while the eastern third is zoned Rural Tourist Commercial (Attachment C-2, Map 24).
- MUA UM-02 will be approximately 3.0 miles east of MP 37, on the west side of Butter Creek Road. The land comprises grassland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 25).
- MUA UM-03 will be located just north of MP 54.9 and west of U.S. Highway 395. The land comprises rangeland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 28).
- MUA UM-04 will be located approximately 2.8 miles south of Pilot Rock and west of East Birch Creek Road. The land comprises grassland and zoned by Umatilla County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 32).
- MUA UM-05 will be located approximately 1.2 mile south of MP 68 on the south side of East Birch Creek Road. The land comprises grassland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 37).
- MUA UM-06 will be located approximately 0.2 mile northwest of MP 75.5 on the west side of McKay Creek Road. The land comprises grassland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 39).
- MUA UM-07 will be located approximately 0.3 mile northeast of MP 78. The land comprises grassland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use and Critical Winter Range Overlay (Attachment C-2, Map 41).

There will be one light-duty fly yard in Umatilla County. Table C-17 identifies the location, size, and land use status of each of the light-duty fly yards.

- LDFY UM-01 will be located at MP 87.6 and is zoned by Umatilla County as Grazing Farm Zone (Attachment C-2, Map 44).

There are two communication station in Umatilla County. Table C-11 identifies the location of each of the communication stations.

- CS UM-01 will be located at approximately MP 54.6 and is 0.4 mile west of U.S. Route 395. The land comprises grassland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 28).
- CS UM-02 will be located at approximately MP 79.2 and just south of Ross Road. The land comprises grassland and is zoned by Umatilla County as Agriculture – Exclusive Farm Use and Critical Winter Range Overlay (Attachment C-2, Map 41)

Segment 3 – Union County

The Proposed Route traverses Union County for 39.9 miles (see Attachment C-2, Maps 45-63). Table C-4 lists the Project features and existing roads, railroads and transmission lines crossed by the Proposed Route. Table C-18 lists the acres in Union County that would be disturbed during construction or affected during operations.

Table C-4. Proposed Route Features – Union County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	169
Communication Station(s)	2
Light Duty Fly Yards	0
Multi-Use Areas	3
Pulling and Tensioning Sites	43
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	31.1
Existing, 71-100% Improved	6.4
New, Bladed	7.2
New, Primitive	0.4
Crossings by Proposed Route	Number of Crossings
High-Voltage Transmission Line Crossings ¹	3
Existing Road Crossings ²	4
Existing Railroad Crossings ³	3

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

After entering Union County at MP 88.3, the Proposed Route turns southeast, passing between two segments of the Blue Mountain Forest State Scenic Corridor, adjacent and offset to the southwest from the existing BPA 230-kV transmission line. At MP 91.4, the Proposed Route enters the Wallowa-Whitman National Forest (NF), where it is within the designated utility corridor for 6.3 of the total 7.5 miles of Wallowa-Whitman NF land crossed. The utility corridor of the Wallowa-Whitman NF is designated NF Management Area 17, and is identified as the Power Transportation Facility Retention Corridor (USFS 1990). The Proposed Route shares the Wallowa-Whitman NF utility corridor with I-84, portions of old US Route 30 (Old Oregon Trail Highway), a Union Pacific railway line, a 230-kV transmission line, a refined petroleum products pipeline, and a large diameter natural-gas pipeline. The land is predominantly forested with areas of open shrub and grassland on some south facing slopes.

Between MP 94.6 and 94.8, while still inside the designated utility corridor, the Proposed Route crosses Railroad Canyon, a portion of the Blue Mountain Forest State Scenic Corridor. The Blue

Mountain Forest State Scenic Corridor comprises six separate areas located along I-84 and the Old Oregon Trail Highway. These parcels extend from Deadman's Pass Rest Area in Umatilla County south to Spring Creek in Union County (OPRD 2011a).

Between MP 96 and 105.8, the Proposed Route parallels within 250 feet of BPA's existing Round Up to La Grande 230-kV transmission line.

At MP 98.8, the Proposed Route exits the Wallowa-Whitman NF and the designated utility corridor. At MP 99.6, the Proposed Route crosses over the Grande Ronde River approximately 1.0 mile south of Hilgard Junction State Park. Hilgard Junction State Park is located 8 miles west of La Grande at the intersection of I-84 and State Highway 244 near the Grande Ronde River (OPRD 2011b). At MP 100, the Proposed Route proceeds easterly for approximately 5.8 miles, generally parallel to the south side and offset 250 feet from the existing BPA 230-kV transmission line.

At MP 105.8, the Proposed Route angles to the south, away from the existing 230-kV line, which continues east into the city of La Grande. At this point, the Proposed Route is approximately 0.4 mile west of the La Grande city limits. The Proposed Route continues south until reaching MP 107.9, at which point it again turns to the east. At MP 110, the Proposed Route turns to the southeast. For the next 43.4 miles, the Proposed Route parallels at varying distances to the existing Quartz to La Grande 230-kV transmission line. In most cases, the two lines will be separated by 250 feet for this distance.

Between MP 110.5 and MP 111.5, the Proposed Route crosses over the Glass Hill Unit of the Ladd Marsh Wildlife Management Area (WMA). The Ladd Marsh WMA was established in 1949, with the primary objectives of protecting and improving waterfowl habitat and providing a public hunting area. The portion of the Ladd Marsh WMA crossed by the Project is an area that supports forest and mixed shrub uplands and the existing Quartz to La Grande 230-kV transmission line. The Proposed Route crosses over Ladd Creek and I-84 at MP 114.1, crosses I-84 again at MP 115.6 and a third time at MP 119.4.

The Proposed Route continues southeast crossing mostly open rangeland. At MP 126.8, the Proposed Route crosses State Highway 237, which is a segment of the state designated scenic byway called the Grande Tour Route. At MP 128.2, the Proposed Route is approximately 3.5 miles northeast of the city of North Powder. At this point, the Proposed Route crosses the Union Pacific Railroad and the Powder River, and exits Union County crossing into Baker County.

There will be three multi-use areas in Union County. Table C-14 identifies the location, size, and land status of each of the multi-use areas.

- MUA UN-01 was dropped from consideration. In an effort to maintain consistency throughout the application, the remaining multi-use areas in Union County were not renumbered.
- MUA UN-02 will be located approximately 0.2 mile west of the Oregon Department of Transportation Charles Reynolds East Bound Rest Area on I-84. The land is under agricultural production and zoned by Union County as Exclusive Farm Use A-1 (Attachment C-2, Map 54 and Attachment C-3, Map 14).
- MUA UN-03 will be located approximately 1.8 miles west of MP 125 on the corner of Olsen and Bagwell roads. The land is grassland but may have previously supported agricultural production and is zoned by Union County as Exclusive Farm Use A-1 (Attachment C-2, Map 60).

- MUA UN-04 will be southwest of North Powder along the west side of I-84 and along the north side of U.S. Highway 30. It will be partially within the city limits of North Powder. This MUA will be located on a parcel of land that is bare ground. A portion of the site is zoned by North Powder as Commercial Interchange. The remainder of the parcel is zoned by Union County as Exclusive Farm Use A-1 (Attachment C-2, Map 62).

There are no light-duty fly yards in Union County.

There are two communication stations in Union County. Table C-11 identifies the location of each of the communication stations.

- CS UN-01 will be located at approximately MP 105.8 and approximately 0.4 mile west of the La Grande city limits. The land comprises shrub land with scattered trees and is zoned by Union County as Timber-Grazing (Attachment C-2, Map 51).
- CS UN-02 will be located at approximately MP 127.5 and is 0.7 mile south of State Highway 237. The land comprises shrub land and is zoned by Union County as Agriculture – Grazing (Attachment C-2, Map 61).

Segment 4 – Baker County

The portion of the Project in Baker County includes 68.4 miles of new transmission line and the 0.9-mile 230-kV rebuild (see Attachment C-2, Maps 63-92). The majority of the route in Baker County traverses open rangeland with little or no development. Table C-5 lists the Project features and existing roads, railroads, and transmission lines crossed by the Proposed Route. Table C-18 lists the acres in Baker County that would be disturbed during construction or affected during operations.

Table C-5. Proposed Route Features – Baker County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	281
Towers – Single Circuit 230-kV H-Frame	5
Towers – Single Circuit 230-kV 3-Pole Dead-end	4
Communication Station(s)	2
Light Duty Fly Yards	1
Multi-Use Areas	6
Pulling and Tensioning Sites	61
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	41.0
Existing, 71-100% Improved	22.2
New, Bladed	22.2
New, Primitive	6.0
Crossings by Proposed Route	Number of Crossings
High-Voltage Transmission Line Crossings ¹	9
Existing Road Crossings ²	3
Existing Railroad Crossings ³	1

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

Once across the Powder River (the border between Baker and Union Counties in this location) and into Baker County, the Proposed Route crosses about 13.1 miles of rangeland as it continues southeast, parallel and offset about 250 feet west of the existing IPC Quartz to La Grande 230-kV transmission line. At MP 132, the Proposed Route passes about 2 miles west of the Thief Valley Reservoir, which is located on the North Powder River.

At MP 142.7, the Proposed Route angles to the southeast, across State Highway 203. Approximately 0.8 mile beyond this road crossing, the Proposed Route crosses over the existing IPC 230-kV transmission line proceeding almost due south about 2.2 miles along the eastern edge of agricultural fields to MP 146.2.

Between MP 146.2 and MP 146.9, the Proposed Route crosses the Oregon Trail and passes west of the National Historic Oregon Trail Interpretive Center. Between MP 146.5 and 147.3, the existing 230-kV line would be rebuilt to allow both the 500-kV and 230-kV towers to be co-located in a valley between ridgelines in the Prospects Range. The rebuild shifts the 230-kV towers several hundred feet to the east to make room for the 500-kV towers within this valley, minimizing visibility from surrounding vantage points by locating the towers at the lowest elevation for maximum screening from topography of the surrounding landscape. At MP 146.8, the Proposed Route crosses over State Highway 86, a designated scenic route by Baker County.

Land use in the area between State Highway 203 to State Highway 86 includes 0.1 miles of irrigated agricultural land and 4.0 miles of shrub-steppe and grassland at the eastern edge of the Baker Valley. The Proposed Route passes within 125 feet of a segment of the Oregon Trail Area of Critical Environmental Concern (ACEC) and within about 0.7 mile of the National Historic Oregon Trail Interpretive Center.

At MP 147.3, the Proposed Route temporarily leaves the corridor with the existing IPC 230-kV transmission line. The Proposed Route then crosses an abandoned gravel pit and continues south around an agricultural pivot. At MP 150.3, the Proposed Route again parallels the existing IPC 230-kV transmission line. After crossing another 3.0 miles of rangeland, the Proposed Route turns southeast at MP 153.4.

The Proposed Route angles and proceeds southeasterly from MP 153.4 and begins to parallel the existing IPC Quartz to Weiser 138-kV transmission line and a 69-kV line and an existing pipeline along the northeast side of I-84. At MP 157.0, the existing transmission line is crossed to avoid indirect impacts to sage-grouse habitat. At MP 159.4, the existing 69-kV line is crossed again and at MP 162.7 the 138-kV transmission line is again crossed to avoid the Oregon Trail Straw Ranch 1 ACEC, an Oregon Department of Energy (ODOE) protected area. Once around the ACEC, the Proposed Route once again crosses to the south side of the existing transmission lines at MP 164.7 and MP 165.4, and at MP 166 crosses I-84, the Union Pacific Railroad, and an existing underground pipeline.

For the next 5 miles, the route diverts from I-84 heading south and crosses open rangeland with little or no development. At MP 171.2, the Proposed Route crosses the Burnt River about 1.2 miles upstream from the mouth of the Burnt River Canyon. The Proposed Route at this point is approximately 3.9 miles east of the community of Durkee. At MP 172.3, the Proposed Route turns east crossing the hills to the south and east of the irrigated farmlands of the Durkee Valley.

After crossing the Burnt River, the Proposed Route climbs steeply, crossing the hills south of Durkee reaching over 5,000 feet in elevation as it crosses the shoulder of Juniper Mountain. This area consists of open range land with scattered stands of juniper and ponderosa pine on

north facing slopes. At MP 185.4, the Proposed Route crosses Dixie Creek and Dixie Creek Road. From here, the Proposed Route turns south and again parallels the existing IPC Quartz to Weiser 138-kV transmission line and an existing underground pipeline. In this section, the Proposed Route crosses through steep terrain that supports open range lands.

At the southern end of the Weatherby Mountains, near MP 191, the Proposed Route leaves the Burnt River Canyon and no longer parallels the existing 138-kV transmission line. From here, the Proposed Route begins paralleling the west side of I-84 at a distance of approximately 0.3 mile. At MP 193, the Proposed Route is about 1.3 miles west of the city of Huntington. From MP 192 to MP 194.4 and again from MP 196.2 to MP 196.8, the Proposed Route is located within the West-wide Energy corridor. The Proposed Route exits Baker County and crosses into Malheur County at MP 196.5.

There will be six multi-use areas in Baker County. Table C-14 identifies the location, size, and land status of each of the multi-use areas.

- MUA BA-01 will be located approximately 0.6 mile east of MP 142.7 on State Highway 203. The area is vacant land and appears to support shrub-steppe, and is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 68).
- MUA BA-02 will be located approximately one-quarter mile east of I-84 immediately east and south of Baker City. It will be about 1.6 miles northwest of the Proposed Route at MP 150. The area is vacant and appears to be predominantly shrub-steppe; however, there is evidence that it may have been farmed in the past. It is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 71).
- MUA BA-03 will be located just southwest of MP 166 on Hill Creek Road. The land consists of grassland and shrub-steppe, and is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 78).
- MUA BA-04 will be located approximately 1.2 miles west of the community of Durkee and 2.5 miles northeast of MP 174 on Oxman Ranch Road. The land is vacant and predominantly shrub-steppe, and is zoned by Baker County as Agriculture – Exclusive Farm Use EFU. It is bounded on three sides by irrigated agriculture (Attachment C-2, Maps 81 and 82).
- MUA BA-05 will be located approximately 0.25 mile southwest of the I-84 Exit 340 on Rye Valley Lane. It is directly adjacent to the Proposed Route between MP 185.4 and MP 185.5. The land is currently vacant but may have supported agriculture in the past. It is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 88).
- MUA BA-06 will be inside city limits of Huntington, approximately 1 mile east of the Proposed Route at MP 192.5. The area currently has some development but is mostly vacant. In the undeveloped portion, grasslands or shrub-steppe habitats dominate. Zoning is also split, with approximately 85 percent being Commercial Industrial and the remaining portion being Commercial Residential (Attachment C-2, Map 91).

There will be one light-duty fly yard in Baker County. Table C-17 identifies the location, size, and land use status of each of the light-duty fly yards.

- LDFY BA-01 will be located at MP 162.7. The area is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 76).

There will be two communication stations in Baker County. Table C-11 identifies the location of each of the communication stations.

- CS BA-01 will be located at approximately MP 158.9 and is approximately 0.5 mile northeast of I-84. The land comprises shrub land and is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 75)
- CS BA-02 will be located at approximately MP 178.6 and is just west of Shirttail Creek Road. The land comprises shrub land and is zoned by Baker County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 85)

Segment 5 – Malheur County

The Proposed Route traverses 74.1 miles across northeast Malheur County (see Attachment C-2, Maps 93-125). Most of the land along the route in Malheur County is rangeland and shrub-steppe with little or no development. Table C-6 lists the Project features and existing roads, railroads, and transmission lines crossed by the Proposed Route. Table C-18 lists the acres in Malheur County that would be disturbed during construction or affected during operations.

Table C-6. Proposed Route Features – Malheur County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	327
Towers – Single Circuit 500-kV H-Frame	6
Towers – Single Circuit 500-kV 3-Pole Dead-end	3
Towers – Single Circuit 138-kV H-Frame	8
Towers – Single Circuit 138-kV 3-Pole Dead-end	3
Communication Station(s)	3
Light Duty Fly Yards	2
Multi-Use Areas	9
Pulling and Tensioning Sites	83
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	41.7
Existing, 71-100% Improved	12.8
New, Bladed	53.1
New, Primitive	13.8
Crossings by Proposed Route	Number of Crossings
High Voltage Transmission Line Crossings ¹	4
Existing Road Crossings ²	2
Existing Railroad Crossings ³	1

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69-kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

Heading southeast across rangeland from the Malheur County line, the Proposed Route crosses several small segments of the West-wide Energy corridor. The Proposed Route crosses several parallel sections of the Oregon National Historic Trail and it passes directly to the east of the Oregon Trail Birch Creek ACEC, an ODOE protected area at MP 199. Between MP 197.6

and MP 198.8, the Proposed Route will be located in the existing IPC 138-kV transmission line ROW. The 138-kV transmission line will be rebuilt to the southwest of the Proposed Route in a new ROW. This is being done to reduce visual impacts to the Oregon Trail Birch Creek ACEC. In addition, between MP 198 and MP 199, the Proposed Route will use H-frame structures ranging in height from 65 to 100 feet.

Shortly thereafter, the Proposed Route turns sharply south at MP 199 and continues until reaching MP 211.5 and some challenging topography. The Oregon Trail Tub Mountain ACEC, another ODOE protected area, is located approximately 1 mile west of the Proposed Route for nearly this entire segment. To avoid steep terrain and the South Alkali Sand Hills ACEC, another ODOE protected area, the Proposed Route angles southwest and crosses Willow Creek and U.S. Highway 26 at MP 216.4. The highway is a designated utility corridor under the Bureau of Land Management's (BLM) Southeastern Oregon Resource Management Plan (BLM 2002). The Proposed Route crosses through approximately 3 miles of irrigated agriculture along both sides of Willow Creek. From MP 218, the Proposed Route continues to the west passing north of Bully Creek Reservoir until it is about 1 mile north of Cottonwood Creek at MP 226. At this point, the Proposed Route turns abruptly south, crosses Cottonwood Creek, and proceeds south along the eastern foothills of the Cottonwood Mountains.

The Proposed Route continues south, crossing Bully Creek at MP 228.5, the Vale Irrigation Canal at MP 231.6, the Union Pacific Railroad at MP 232, and the Malheur Canyon, which the Malheur River flows through, at MP 232.1. Headed southeasterly, the Proposed Route crosses U.S. Highway 20 near Vines Hill at MP 236.4. U.S. Highway 20 is a BLM designated utility corridor under BLM's Southeastern Oregon Resource Management Plan (BLM 2002). The Proposed Route passes to the north avoiding the Double Mountain Wilderness Characteristic Unit between MP 238.1 and MP 245.4. The Proposed Route continues southeasterly, crossing Cow Hollow and passing west of Leaky Reservoir and east of Chalk Reservoir.

At MP 253.2, the Proposed Route enters a BLM designated utility corridor. This segment of the utility corridor was developed to provide a corridor that avoided the area of the Owyhee Dam, and to provide an alternative to the utility corridor designated along the existing PacifiCorp 500-kV line that crosses the Owyhee River below the Owyhee Dam.

At MP 254.2, the Proposed Route turns to the east to avoid crossing the Owyhee River Below the Dam ACEC (an ODOE protected area). At MP 254, the Proposed Route passes within 1,000 feet of the northeast boundary of the Owyhee River Below the Dam ACEC. At MP 254.8, the Proposed Route exits the utility corridor and proceeds across the Owyhee River at approximately MP 255.3. From here, the Proposed Route turns to the south and, at MP 256, re-enters the BLM utility corridor. At MP 266.1, the Proposed Route crosses the existing PacifiCorp Summer Lake to Hemingway 500-kV transmission line at MP 266.1. At MP 266.4, the Proposed Route exits the utility corridor and turns to the southeast. From here, the Proposed Route proceeds parallel to and offset approximately 1,500 to 3,500 feet from the southwest side of the existing 500-kV line to the Oregon/Idaho state line at MP 270.7.

There will be nine multi-use areas in Malheur County. Table C-14 identifies the location, size, and land status of each of the multi-use areas.

- MUA MA-01 will be approximately 0.2 mile east of MP 203 on Love Reservoir Road. The area is undeveloped and comprises shrub-steppe habitat, and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 95).
- MUA MA-02 will be approximately 0.5 mile south of MP 215 and 1 mile east of U.S. Highway 26 on Old Oregon Trail Road and is zoned by Malheur County as Agriculture – Exclusive Range Use and Agriculture – Exclusive Farm Use (Attachment C-2, Map 100).

- MUA MA-03 will be approximately 4 miles east of MP 233 and 0.75 mile north of U.S. Highway 20 on Loop Road. The area is vacant land but previously supported agricultural production. It now supports non-native grasses and mixed shrubs, and is zoned by Malheur County as both Agriculture – Exclusive Farm Use and Rural Industrial (Attachment C-2, Map 108).
- MUA MA-04 will be adjacent to the Proposed Route between MP 236.5 and MP 236.6 and directly south of U.S. Highway 20. The area supports shrub-steppe and grassland habitat, and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 109).
- MUA MA-05 will be 0.1 mile north of MP 240 on Rock Canyon Road. The area supports shrub-steppe and grassland habitat, and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 111).
- MUA MA-06 will be located 0.5 mile northeast of MP 245 at the intersection of Cow Hollow Road and Twin Springs Road. The area supports shrub-steppe and grassland habitat, and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Maps 112 and 113).
- MUA MA-07 will be approximately 2.1 miles south of the town of Adrian, Oregon. It will be immediately adjacent to State Highway 201 and the Snake River and is about 2.4 miles east of MP 258. The area is vacant and comprised entirely of non-native grassland habitat. Zoning is split nearly equally between Agriculture – Exclusive Farm Use and Agriculture – Exclusive Range Use. Industrial, agricultural, and residential uses are apparent on all sides of this area except the west side. (Attachment C-2, Map 119).
- MUA MA-08 will be approximately 1.3 miles east of MP 260.5 and 0.4 miles west of State Highway 201. The area is vacant and comprised of non-native grassland, and is zoned by Malheur County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 121).
- MUA MA-09 will be located approximately 0.3 mile east of MP 265 on Succor Creek Road. The area is undeveloped and supports shrub-steppe habitat, and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 123).

There will be two light-duty fly yards in Malheur County. Table C-17 identifies the location, size, and land use status of each of the light-duty fly yards.

- LDFY MA-01 will be located at approximately MP 222.4. The area is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 102).
- LDFY MA-02 will be located at approximately MP 232.9. The area is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 107).

There will be three communication stations in Malheur County. Table C-11 identifies the location of each of the communication stations.

- CS MA-01 will be located at approximately MP 218.9 and is 0.6 mile southwest of U.S. Route 26. The land comprises irrigated farm field and is zoned by Malheur County as Agriculture – Exclusive Farm Use (Attachment C-2, Map 100).
- CS MA-02 will be located at approximately MP 242.8. The land comprises shrub and grass land and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 112).

- CS MA-03 will be located at approximately MP 269 and is 1.7 miles west of the Oregon-Idaho state line. The land comprises shrub and grass land and is zoned by Malheur County as Agriculture – Exclusive Range Use (Attachment C-2, Map 125).

3.2.2 Alternative Routes

3.2.2.1 West of Bombing Range Road Alternative 1

The 3.7-mile West of Bombing Range Road Alternative 1 leaves the Proposed Route at MP 10.0 and crosses to the east side of Bombing Range Road (see Attachment C-3, Maps 1-2). This alternative continues along the east side of road until it rejoins the Proposed Route at MP 13.6.

The primary difference between West of Bombing Range Road Alternative 1 and the Proposed Route is that the alternative route shifts a portion of the Project from Navy land on the west side of the road to private land on the east side of the road. This alternative will result in impacts to agricultural operations on the east side that otherwise would be avoided with the Proposed Route. West of Bombing Range Road Alternative 1 was developed to avoid the Navy's RNA and HMA.

Table C-7 lists the Project features and existing roads, railroads, and transmission lines crossed by the West of Bombing Range Road Alternative 1. Table C-19 lists the acres along the alternative route that would be disturbed during construction or affected during operations.

Table C-7. West of Bombing Range Road Alternative 1 Features – Morrow County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	1
Towers – Single Circuit 500-kV H-Frame	22
Towers – Single Circuit 500-kV 3-Pole Dead-end	1
Communication Station(s)	0
Light Duty Fly Yards	0
Multi-Use Areas	0
Pulling and Tensioning Sites	4
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	1.1
Existing, 71-100% Improved	0
New, Bladed	0
New, Primitive	0
High Voltage Transmission Line Crossings ¹	0
Crossings by Proposed Alternative	Number of Crossings
Existing Road Crossings ²	0
Existing Railroad Crossings ³	0

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

3.2.2.2 West of Bombing Range Road Alternative 2

The 3.7-mile West of Bombing Range Road Alternative 2 starts at MP 10.0 (see Attachment C-3, Maps 3-4). From MP 10.0 to MP 11.6, the alternative is located on Navy land on the west

side of Bombing Range Road. At MP 11.6, it crosses to the east side of the road, continuing along the road until it rejoins the Proposed Route at MP 13.6.

Both the Proposed Route and West of Bombing Range Road Alternative 2 are located on Navy land between MP 10.0 to MP 11.6. However, the alternative differs from the Proposed Route along that stretch by making use of an alternative Y-frame structure-type and by avoiding the Boardman RNA. After the alternative crosses the road onto private lands at MP 11.6, it follows the same path as West of Bombing Range Road Alternative 1. The West of Bombing Range Road Alternative 2 was developed to avoid the agricultural impacts associated with West of Bombing Range Road Alternative 1 on the east side of the Bombing Range, while also avoiding the Boardman RNA.

Table C-8 lists the Project features and existing roads, railroads, and transmission lines crossed by the West of Bombing Range Road Alternative 2. Table C-20 lists the acres along the alternative route that would be disturbed during construction or affected during operations.

Table C-8. West of Bombing Range Road Alternative 2 Features – Morrow County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	1
Towers – Single Circuit 500-kV H-Frame	12
Towers – Single Circuit 500-kV H-Frame Dead-end	3
Towers – Single Circuit 500-kV Y-Frame	8
Towers – Single Circuit 500-kV 3-Pole Dead-end	1
Communication Station(s)	0
Light Duty Fly Yards	0
Multi-Use Areas	0
Pulling and Tensioning Sites	2
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	0.8
Existing, 71-100% Improved	0
New, Bladed	0
New, Primitive	0
Crossings by Proposed Alternative	Number of Crossings
High Voltage Transmission Line Crossings ¹	0
Existing Road Crossings ²	0
Existing Railroad Crossings ³	0

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

3.2.2.3 Morgan Lake Alternative

The 18.5-mile Morgan Lake Alternative leaves the Proposed Route at MP 98.8 approximately 1.0 mile west of the Hilgard Junction State Park (see Attachment C-3, Maps 5-14). The Morgan Lake Alternative proceeds south and then southeast crossing the Grand Ronde River at MP 0.8. This alternative then turns east crossing open rangeland with scattered forest stands on north facing slopes. At MP 4.7, the alternative turns southeast and at MP 6.3 passes about 0.2 mile southwest of Morgan Lake. Morgan Lake is a park managed by the City of La Grande. The

Morgan Lake Alternative continues to the southwest and MP 11.0 crosses just to the west of the Ladd Marsh WMA. At that point, the alternative crosses lands that are predominantly forested or have undergone recent timber harvest. At MP 15, the Morgan Lake Alternative crosses over Ladd Canyon and at MP 18.5 rejoins the Proposed Route at MP 117.9.

In comparison with the Proposed Route, the Morgan Lake Alternative crosses fewer parcels with residences, does not cross the Ladd Marsh WMA, does not cross I-84, and is 0.5 mile shorter. The Morgan Lake Alternative was developed by IPC based on input from land owners.

Table C-9 lists the Project features and existing roads, railroads, and transmission lines crossed by the Morgan Lake Alternative. Table C-21 lists the acres along the alternative route that would be disturbed during construction or affected during operations.

Table C-9. Morgan Lake Alternative Features – Union County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	82
Communication Station(s)	1
Light Duty Fly Yards	0
Multi-Use Areas	1
Pulling and Tensioning Sites	19
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	12.0
Existing, 71-100% Improved	2.5
New, Bladed	5.9
New, Primitive	0
Crossings by Proposed Alternative	Number of Crossings
High Voltage Transmission Line Crossings ¹	0
Existing Road Crossings ²	1
Existing Railroad Crossings ³	0

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

There is one alternative communication station in Union County:

- CS UN-02 ALT will be located at approximately MP 6.6 of the Morgan Lake Alternative Route and is 0.3 mile south of Morgan Lake. The land comprises grass land and is zoned by Union County as Timber – Grazing (Attachment C-3, Map 8).

3.2.2.4 Double Mountain Alternative

The 7.4-mile Double Mountain Alternative leaves the Proposed Route at MP 238.1, stays north of the Double Mountains, and rejoins the Proposed Route at MP 245.4 (see Attachment C-3, Maps 15-19).

The large majority of land along the Double Mountain Alternative, which is located entirely on BLM-managed land, is rangeland and sagebrush. Almost the entire length of this alternative route is located within the BLM-designated Double Mountain Wilderness Characteristic Unit.

Table C-10 lists the Project features and existing roads, railroads, and transmission lines crossed by the Double Mountain Alternative. Table C-22 lists the acres along the alternative route that would be disturbed during construction or affected during operations.

Table C-10. Double Mountain Alternative Features – Malheur County

Project Features	Number of Sites
Towers – Single Circuit 500-kV Lattice	34
Communication Station(s)	1
Light Duty Fly Yards	0
Multi-Use Areas	2
Pulling and Tensioning Sites	7
Station	0
Access Roads	Total Miles
Existing, 21-70% Improved	1.2
Existing, 71-100% Improved	3.8
New, Bladed	7.0
New, Primitive	0
Crossings by Proposed Alternative	Number of Crossings
High Voltage Transmission Line Crossings ¹	0
Existing Road Crossings ²	0
Existing Railroad Crossings ³	0

¹ Source: ABB Ventyx (2016) and Idaho Power Company; includes only transmission lines over 69 kV.

² Source: Esri (2013); includes Interstate, federal, and state highways.

³ Source: Oregon Department of Transportation (2013).

There is one alternative communication station in Malheur County:

- CS MA-02 ALT will be located at approximately MP 226.8 of the Proposed Route and is 0.2 mile north of Bully Creek Road. The land comprises shrub and grass land and is zoned by Malheur County as Exclusive Range Use (Attachment C-3, Map 19).

3.2.3 Proposed and Alternative Communication Station Sites

Communication station sites and associated map locations are listed in Tables C-11, C-12, and C-13 and shown in Attachments C-2 and C-3.

Table C-11. Proposed Route – Communication Station Sites

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres	Oper. Acres
Morrow County						
CS MO-01	9	Private	21.2	90	0.2	0.1
Umatilla County						
CS UM-01	28	Private	54.6	257	0.2	0.1
CS UM-02	41	Private	79.2	127	0.2	0.1
Union County						
CS UN-01	51	Private	105.8	167	0.2	0.1
CS UN-02	62	Private	127.5	79	0.2	0.1
Baker County						
CS BA-01	76	Private	158.9	260	0.2	0.1
CS BA-02	86	Private	178.7	257	0.2	0.1
Malheur County						
CS MA-01	101	Private	217.0	254	0.2	0.1
CS MA-02	113	Private	242.8	87	0.2	0.1
CS MA-03	126	Private	296.0	106	0.2	0.1

¹ Attachment C-2 map set reference.

² Land status, milepost, and distance all from centroid of feature.

Table C-12. Morgan Lake Alternative – Communication Station Site

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres	Oper. Acres
Malheur County						
CS UN-02 ALT	8	Private	6.6	228	0.2	0.1

¹ Attachment C-3 map set reference.

² Land status, milepost, and distance all from centroid of feature.

Table C-13. Double Mountain Alternative – Communication Station Site

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres	Oper. Acres
Malheur County						
CS MA-02 ALT	19	Private	226.8	110	0.2	0.1

¹ Attachment C-3 map set reference.

² Land status, milepost, and distance all from centroid of feature.

3.3 Temporary Uses

3.3.1 Multi-use Areas

Multi-use areas and associated map locations are listed in Tables C-14, C-15, and C-16 and shown in Attachments C-2 and C-3.

Table C-14. Proposed Route – Multi-use Area Sites

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres
Morrow County					
MUA MO-01	1	Private	0.0	2,421	22.4
MUA MO-02	10	Private	22.3	6,139	32.1
MUA MO-03	13	Private	28.0	3,829	2.8
MUA MO-04	15	Private	34.1	1,071	8.9
MUA MO-05	23	Private	45.7	8,685	34.8
Umatilla County					
MUA UM-01	24	Private	3.1	62,239	37.7
MUA UM-02	25	Private	37.3	15,620	34.2
MUA UM-03	28	Private	54.9	570	11.5
MUA UM-04	32	Private	62.6	11,347	28.6
MUA UM-05	37	Private	67.6	5,921	7.8
MUA UM-06	39/40	Private	75.6	1,447	5.6
MUA UM-07	41	Private	78.4	1,340	14.3
Union County					
MUA UN-02	54	Private	112.8	3,759	19.3
MUA UN-03	60	Private	123.8	7,625	18.7
MUA UN-04	63	Private	129.4	21,428	39.9
Baker County					
MUA BA-01	69	Private	142.6	4,100	30.3
MUA BA-02	72	Private	150.2	8,875	36.7
MUA BA-03	79	Private	166.2	924	5.6
MUA BA-04	82/83	Private	170.1	12,347	17.0
MUA BA-05	89	Private	185.4	757	13.5
MUA BA-06	92	Private	192.5	5,402	8.7
Malheur County					
MUA MA-01	96	BLM/ Private	202.8	904	5.0
MUA MA-02	101	Private	215.2	3,841	28.2
MUA MA-03	109	Private	235.2	21,771	46.8
MUA MA-04	110	BLM	236.5	660	23.6
MUA MA-05	112	Private	240.2	1,021	14.9
MUA MA-06	113/114	BLM	245.2	2,475	16.5
MUA MA-07	120	Private	258.6	12,989	18.7
MUA MA-08	122	Private	261.0	7,743	12.0

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres
MUA MA-09	124	BLM	265.3	1,582	10.5

¹ Attachment C-2 map set reference.

² Land status, milepost, and distance all from centroid of feature.

Table C-15. Morgan Lake Alternative – Multi-use Area Sites

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres
Malheur County					
MUA UN-02	14	Private	12.9	10,883	19.3

¹ Attachment C-3 map set reference.

² Land status, milepost, and distance all from centroid of feature.

Table C-16. Double Mountain Alternative – Multi-use Area Sites

County/ Feature ID	Map ¹	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres
Malheur County					
MUA MA-05	18	Private	2.2	6,686	14.9
MUA MA-06	17	BLM	7.3	3,019	16.5

¹ Attachment C-3 map set reference.

² Land status, milepost, and distance all from centroid of feature.

3.3.2 Light-Duty Fly Yards

Light-duty fly yards and associated map locations are listed in Table C-17 and are shown in Attachment C-2.

Table C-17. Light-Duty Fly Yards

County/ Feature ID	Map ¹	Easting ²	Northing ²	Land Status ²	Nearest Milepost ²	Dist. to Milepost (ft) ²	Constr. Acres
Umatilla County							
LDFY UM-01	44	388966.8	5032313.5	Private	87.6	266	3.6
Baker County							
LDFY BA-01	77	452626.2	4946956.5	Private	162.8	338	2.9
Malheur County							
LDFY MA-01	103	468552.7	4878344.3	BLM	222.4	118	5.7
LDFY MA-02	108	462575.7	4865837.9	BLM/ Private	232.9	147	7.6

¹ Attachment C-2 map set reference.

² Coordinates (North American Datum 1983 Universal Transverse Mercator Zone 11 – meters), land status, milepost, and distance all from centroid of feature.

3.4 Disturbance

The following discussion estimates construction disturbances and lands permanently required for operations, based on best professional judgment and experience with linear transmission projects. Components included in disturbance estimates are: transmission support structures; their associated construction work areas; pulling sites for tensioning conductors; access roads to each structure; multi-use areas; light-duty fly yards; communications stations; and stations.

As part of the preliminary design and to aid in the quantification of effects, locations were assigned for all components of the Proposed Route and the alternative routes. Table C-18 shows the estimated amount of land that will be disturbed during construction or required to be permanently converted to operational uses for the Proposed Route. Tables C-19, C-20, C-21, and C-22 show this same information for the four alternative routes. In addition, Tables C-23a and C-23b detail the approximate acres of forest clearing required for the Project. Facility locations are shown in Attachments C-1, C-2, and C-3.

Table C-18. Proposed Route – Acres of Land Disturbed during Construction and Operation

County/ Project Component	Land Affected During Construction (acres)	Land Reclaimed After Construction (acres)	Land Permanently Converted to Operations (acres)
Morrow County			
Access Roads – New or Substantial Improvements	155.1	55.8	99.3
Communication Station(s), including Distribution Lines (if needed)	0.2	0.1	0.1
Multi-use Areas	100.8	100.8	0.0
Station – Longhorn	24.4	4.8	19.6
Structure and Other Work Areas	352.9	343.6	9.3
Morrow County – Total	633.5	505.2	128.3
Umatilla County			
Access Roads – New or Substantial Improvements	184.8	78.9	105.9
Communication Station(s), including Distribution Lines (if needed)	0.5	0.2	0.3
Multi-use Areas	139.7	139.7	0.0
Structure and Other Work Areas	388.7	380.0	8.7
Umatilla County – Total	713.7	598.8	114.9
Union County			
Access Roads – New or Substantial Improvements	132.6	45.4	87.2
Communication Station(s), including Distribution Lines (if needed)	1.1	0.5	0.6
Multi-use Areas	77.8	77.8	0.0
Structure and Other Work Areas	407.2	398.2	9.0
Union County – Total	618.7	521.8	96.8
Baker County			
Access Roads – New or Substantial Improvements	304.4	127.9	176.5
Communication Station(s), including Distribution Lines (if needed)	2.7	1.2	1.5
Multi-use Areas	111.8	111.8	0.0
Structure and Other Work Areas	621.0	605.5	15.5
Baker County – Total	1,039.9	846.4	193.5

County/ Project Component	Land Affected During Construction (acres)	Land Reclaimed After Construction (acres)	Land Permanently Converted to Operations (acres)
Malheur County			
Access Roads – New or Substantial Improvements	381.8	178.6	203.2
Communication Station(s), including Distribution Lines (if needed)	1.7	0.7	1.0
Multi-use Areas	176.2	176.2	0.0
Structure and Other Work Areas	782.2	763.0	19.2
Malheur County – Total	1,341.8	1,118.3	223.5
Proposed Route			
Access Roads – New or Substantial Improvements	1,299.9	627.8	672.1
Communication Station(s), including Distribution Lines (if needed)	6.2	2.7	3.5
Multi-use Areas	606.3	606.3	0.0
Station – Longhorn	24.4	4.8	19.6
Structure and Other Work Areas	2,552.0	2,490.3	61.7
Proposed Route – Total	4,488.8	3,731.9	756.9

Note: Acreages are rounded and may not sum exactly.

Table C-19. West of Bombing Range Road Alternative 1 – Acres of Land Disturbed during Construction and Operation

County/ Project Component	Land Affected During Construction (acres)	Land Reclaimed After Construction (acres)	Land Permanently Converted to Operations (acres)
Morrow County			
Access Roads – New or Substantial Improvements	6.5	1.8	4.7
Communication Station(s), including Distribution Lines (if needed)	0.0	0.0	0.0
Multi-use Areas	0.0	0.0	0.0
Structure and Other Work Areas	25.1	24.7	0.4
Morrow County – Total	31.7	26.6	5.1

Note: Acreages are rounded and may not sum exactly.

Table C-20. West of Bombing Range Road Alternative 2 – Acres of Land Disturbed during Construction and Operation

County/ Project Component	Land Affected During Construction (acres)	Land Reclaimed After Construction (acres)	Land Permanently Converted to Operations (acres)
Morrow County			
Access Roads – New or Substantial Improvements	5.2	2.1	3.1
Communication Station(s), including Distribution Lines (if needed)	0.0	0.0	0.0
Multi-use Area	0.0	0.0	0.0
Structure and Other Work Areas	17.1	16.8	0.3
Morrow County – Total	22.4	19.0	3.4

Note: Acreages are rounded and may not sum exactly.

Table C-21. Morgan Lake Alternative – Acres of Land Disturbed during Construction and Operation

County/ Project Component	Land Affected During Construction (acres)	Land Reclaimed After Construction (acres)	Land Permanently Converted to Operations (acres)
Malheur County			
Access Roads – New or Substantial Improvements	78.2	30.0	48.2
Communication Station(s), including Distribution Lines (if needed)	0.6	0.3	0.3
Multi-use Area	19.3	19.3	0.0
Structure and Other Work Areas	190.5	186.0	4.5
Union County – Total	288.6	235.6	53.0

Note: Acreages are rounded and may not sum exactly.

Table C-22. Double Mountain Alternative – Acres of Land Disturbed during Construction and Operation

County/ Project Component	Land Affected During Construction (acres)	Land Reclaimed After Construction (acres)	Land Permanently Converted to Operations (acres)
Malheur County			
Access Roads – New or Substantial Improvements	51.7	26.0	25.7
Communication Station(s), including Distribution Lines (if needed)	0.9	0.4	0.5
Multi-use Area	31.4	31.4	0.0
Structure and Other Work Areas	72.9	70.9	2.0
Malheur County – Total	156.9	128.7	28.2

Note: Acreages are rounded and may not sum exactly.

Table C-23a. Estimated Forest Clearing for All Project Features – Proposed Route

County	Forest Clearing (acres)
Umatilla County	245.6
Union County	530.1
Total	775.7

Note: The operation area used to estimate forest clearing is a 250-foot corridor and all Project features outside of the centerline corridor and a 30-foot buffer for proposed new road. This estimate is approximate and preliminary in nature and is not intended to serve as a forest inventory. Clearing estimate was based on field survey data (see Exhibit BB).

Table C-23b. Estimated Forest Clearing for All Project Features – Morgan Lake Alternative

County	Forest Clearing (acres)
Union County	296.8
Total	296.8

Note: The operation area used to estimate forest clearing is a 250-foot corridor and all Project features outside of the centerline corridor and a 30-foot buffer for proposed new road. This estimate is approximate and preliminary in nature and is not intended to serve as a forest inventory. Clearing estimate was based on field survey data (see Exhibit BB).

3.5 Site Boundary

The Site Boundary is the area within which IPC will locate all facilities. The requested Site Boundary size varies based on the specific facility component as listed in Table C-24.

Table C-24. Site Boundary and Average Temporary/Permanent Disturbance Areas by Project Component

Component	Length or Count	Site Boundary ¹	Construction Disturbance	Operations Disturbance
Transmission Lines				
Single-Circuit 500-kV	270.8 miles (Proposed)/ 33.3 miles (Alternatives)	500 feet (width)	— ²	— ²
Single-Circuit 230-kV	0.9 mile (Proposed)	500 feet (width)	— ²	— ²
Single-Circuit 138-kV	1.1 miles (Proposed)	500 feet (width)	— ²	— ²
Transmission Structures				
500-kV Lattice	1,085 (Proposed)/ 118 (Alternative)	— ³	250 x 250 feet (1.4 acres)	50 x 50 feet (0.06 acre)
500-kV H-Frame (NWSTF area)	73 (Proposed)/ 34 (Alternative)	— ³	250 x 90 feet (0.5 acres) on NWSTF / 250 x 150 feet (0.9 acres) off NWSTF	10 x 40 feet (0.001 acre)
500-kV H-Frame (Birch Creek area)	6 (Proposed)	— ³	250 x 250 feet (1.4 acre)	10 x 40 feet (0.001 acre)
500-kV Y-Frame	8 (Alternative)	— ³	Varies (0.4 acres)	8 x 8 feet (0.001 acre)
500-kV 3-Pole Dead- end (NWSTF area)	1 (Proposed)/ 2 (Alternative)	— ³	250 x 90 feet (0.5 acre)	10 x 90 feet (0.02 acre)

Component	Length or Count	Site Boundary ¹	Construction Disturbance	Operations Disturbance
500-kV 3-Pole Dead-end (Birch Creek area)	3 (Proposed)	— ³	250 x 250 feet (1.4 acre)	10 x 90 feet (0.02 acre)
500-kV H-Frame Dead-end (NWSTF area)	3 (Alternative)	— ³	250 x 90 feet (0.5 acre)	10 x 50 feet (0.01 acre)
230-kV H-Frame	5 (Proposed)	— ³	250 x 100 feet (0.6 acre)	25 x 5 feet (0.01 acre)
230-kV H-Frame (Removal)	9 (Proposed)	— ³	150 x 100 feet (0.3 acre)	— ⁴
230-kV 3-Pole Dead-end	4 (Proposed)	— ³	250 x 150 feet (0.6 acre)	40 x 130 feet (0.1 acre)
138-kV H-Frame	8 (Proposed)	— ³	150 x 250 feet (0.9 acre)	16.5 x 5 feet (0.001 acre)
138-kV H-Frame (Removal)	10 (Proposed)	— ³	100 x 100 feet (0.2 acre)	— ⁴
138-kV 3-Pole Dead-end	3 (Proposed)	— ³	250 x 150 feet (0.9 acre)	30 x 130 feet (0.09 acre)
69-kV H-Frame (Removal)	94 (Proposed)	— ³	90 x 90 feet (0.2 acre)	— ⁴
Stations				
Longhorn	1	188.9 acres	24.4 acres	19.6 acres
Access Roads⁵				
Existing Road, Moderate Improvements (21-70%)	148.8 miles (Proposed)/ 13.2 miles (Alternatives)	100 feet (width)	16 feet (width)	14 feet (width)
Existing Road, Extensive Improvements (71-100%)	73.4 miles (Proposed)/ 6.3 miles (Alternatives)	100 feet (width)	30 feet (width)	14 feet (width)
New, Bladed	88.8 miles (Proposed)/ 12.8 miles (Alternatives)	200 feet (width)	35 feet (width)	14 feet (width)
New, Primitive	117.5 miles (Proposed)/ 12.8 miles (Alternatives)	200 feet (width)	16 feet (width)	10 feet (width)
Permanent Facilities				
Communication Station	10 (Proposed)/ 2 (Alternative)	— ²	100 x 100 feet (0.2 acre)	75 x 75 feet (0.1 acre)
Distribution Power Lines to Communication Station ⁷	7 (Proposed)/ 2 (Alternative)	50 feet (width)	25 feet (width)	14 feet (width)
Temporary Facilities				
Multi-use Areas	30 (Proposed)/ 4 (Alternative)	Mapped Area Outside of Transmission Line Site Boundary	23 acres	—

Component	Length or Count	Site Boundary ¹	Construction Disturbance	Operations Disturbance
Light Duty Fly Yards	4 (Proposed)	Mapped Area Outside of Transmission Line Site Boundary	5 acres	–
Pulling and Tensioning Sites	299 (Proposed)/ 32 (Alternative)	Mapped Area Outside of Transmission Line Site Boundary	4 acres	–

¹ Site Boundary size may be less than indicated in specific areas to avoid impacts to protected areas or for other reasons.

² No temporary or permanent disturbance expected along centerline, other than for specific Project features indicated below.

³ Component will be sited entirely within centerline site boundary.

⁴ No permanent disturbance expected once existing towers are removed.

⁵ See the Road Classification Guide and Access Control Plan (Exhibit B, Attachment B-5) for more information about road types.

⁶ Existing roads with no substantial improvements are defined as existing roads that require improvements along 20% or less of the entire road segment. These roads have minimal to no temporary or permanent disturbance impacts beyond their existing road surface/profile, are not included in site boundary.

⁷ IPC will construct distribution lines to communication stations within their service territory.

4.0 CONCLUSIONS

Exhibit C includes the information required by OAR 345-021-0010(1)(c) and the Second Amended Project Order regarding the location of the Project.

5.0 COMPLIANCE CROSS-REFERENCES

Table C-25 identifies the location within the application for site certificate of the information responsive to the application submittal requirements in OAR 345-021-0010(c) and the relevant Second Amended Project Order provisions.

Table C-25. Compliance Requirements and Relevant Cross-References

Requirement	Location
OAR 345-021-0010(c)	
Exhibit C. Information about the location of the proposed facility, including:	
(A) A map or maps showing the proposed locations of the energy facility site, all related or supporting facility sites and all areas that might be temporarily disturbed during construction of the facility in relation to major roads, water bodies, cities and towns, important landmarks and topographic features, using a scale of 1 inch = 2000 feet or smaller when necessary to show detail.	Exhibit C, Section 1.0, Attachment C-1, Attachment C-2, and Attachment C-3

Requirement	Location
(B) A description of the location of the proposed energy facility site, the proposed site of each related or supporting facility and areas of temporary disturbance, including the total land area (in acres) within the proposed site boundary, the total area of permanent disturbance, and the total area of temporary disturbance. If a proposed pipeline or transmission line is to follow an existing road, pipeline or transmission line, the applicant shall state to which side of the existing road, pipeline or transmission line the proposed facility will run, to the extent this is known.	Exhibit C, Section 3.2, Section 3.3, Section 3.4, Section 3.5, Attachment C-1, Attachment C-2, and Attachment C-3
(C) For energy generation facilities, a map showing the approximate locations of any other energy generation facilities that are known to the applicant to be permitted at the state or local level within the study area as defined in OAR 345-001-0010 for impacts to public services.	Not Applicable
Second Amended Project Order, Section III(c)	
Maps shall indicate the "site boundary" as defined in OAR 345-001-0010(55). Maps shall provide enough information for property owners potentially affected by the facility to determine whether their property is within or adjacent to the site boundary. Major roads shall be named. IPC shall include maps drawn to a scale of 1 inch = 2,000 feet or smaller when necessary to show detail. The Department requests that IPC share GIS data for the proposed facility in a format that is compatible with current Department software programs; accurate GIS data will help streamline the application review process for the Department and reviewing agencies.	Exhibit C, Attachment C-1, Attachment C-2, and Attachment C-3; Conservation Reserve Program lands are not available to be publicly disclosed. Exclusive Farm Use zoned lands are discussed and shown in Exhibit K, Section 4.0.
Maps shall clearly show the boundaries of the proposed corridor within which the transmission line would be constructed, and shall include familiar landmarks such as roads and existing power lines that reviewing agencies and affected landowners may use to identify the proposed route. Aerial photographs with all roads identified are helpful for public interpretation and review. The site boundaries of all proposed related or supporting facilities, including but not limited to access roads, temporary laydown areas, switching stations/substations, must also be identified. Maps showing access roads included as related or supporting facilities shall clearly depict where existing roads or road segments are proposed to be in the site boundary. Also, clearly identify the county and city jurisdictions in which facility components are proposed to be located. All county and city jurisdictions in which facility components are proposed to be located are appointed as SAGs by EFSC.	Exhibit C, Attachment C-1, Attachment C-2, and Attachment C-3
Exhibit C shall contain a table listing the approximate land areas for both temporary disturbance associated with construction and permanent footprint of structures associated with facility operation for each type of disturbance or structure. This information needs to be consistent with information provided in other exhibits.	Exhibit C, Table C-18 through Table C-24

6.0 REFERENCES

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**ATTACHMENT C-1
PROPOSED STATION LOCATION**

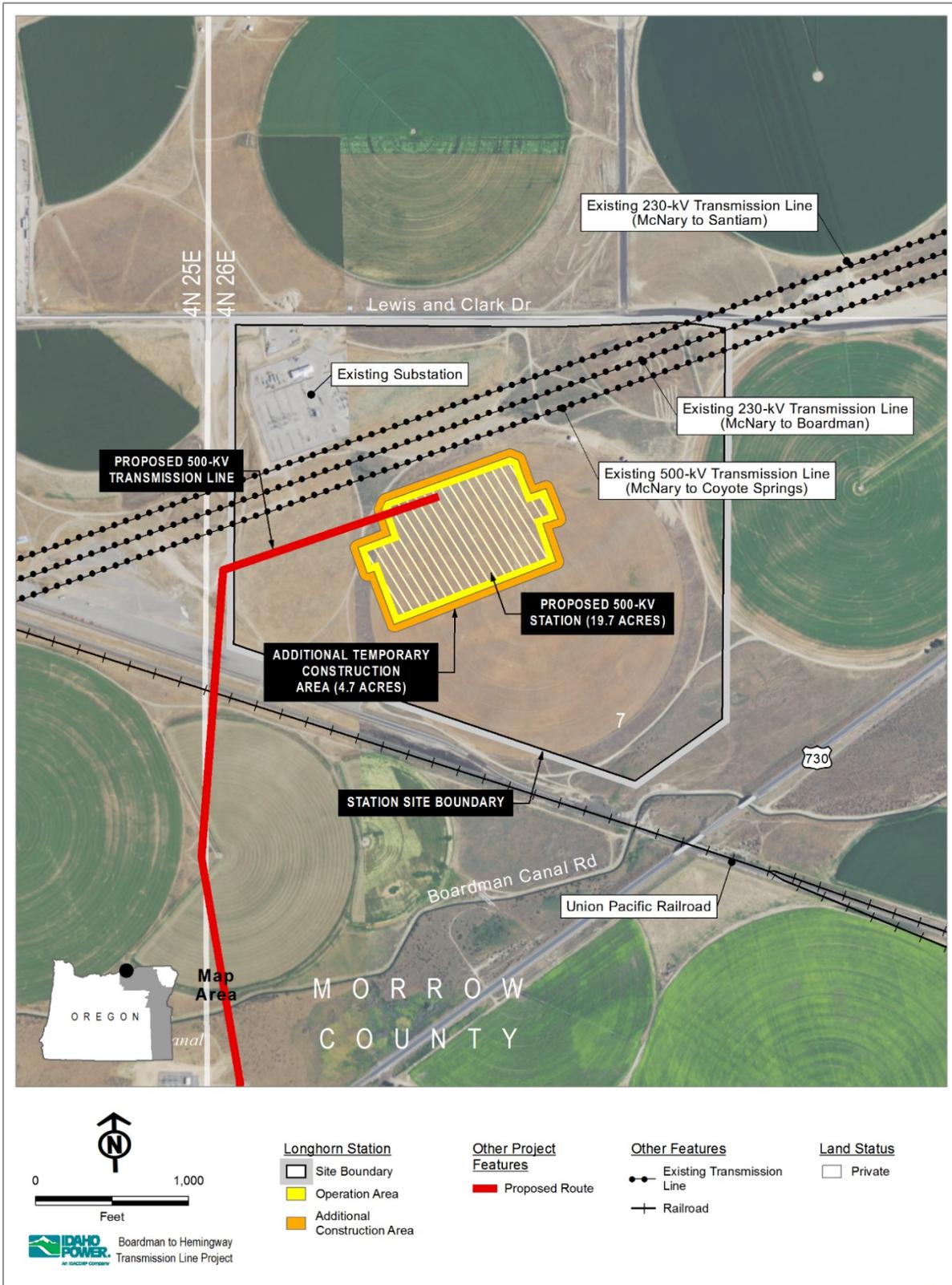
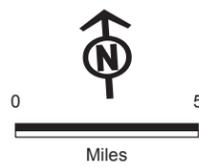
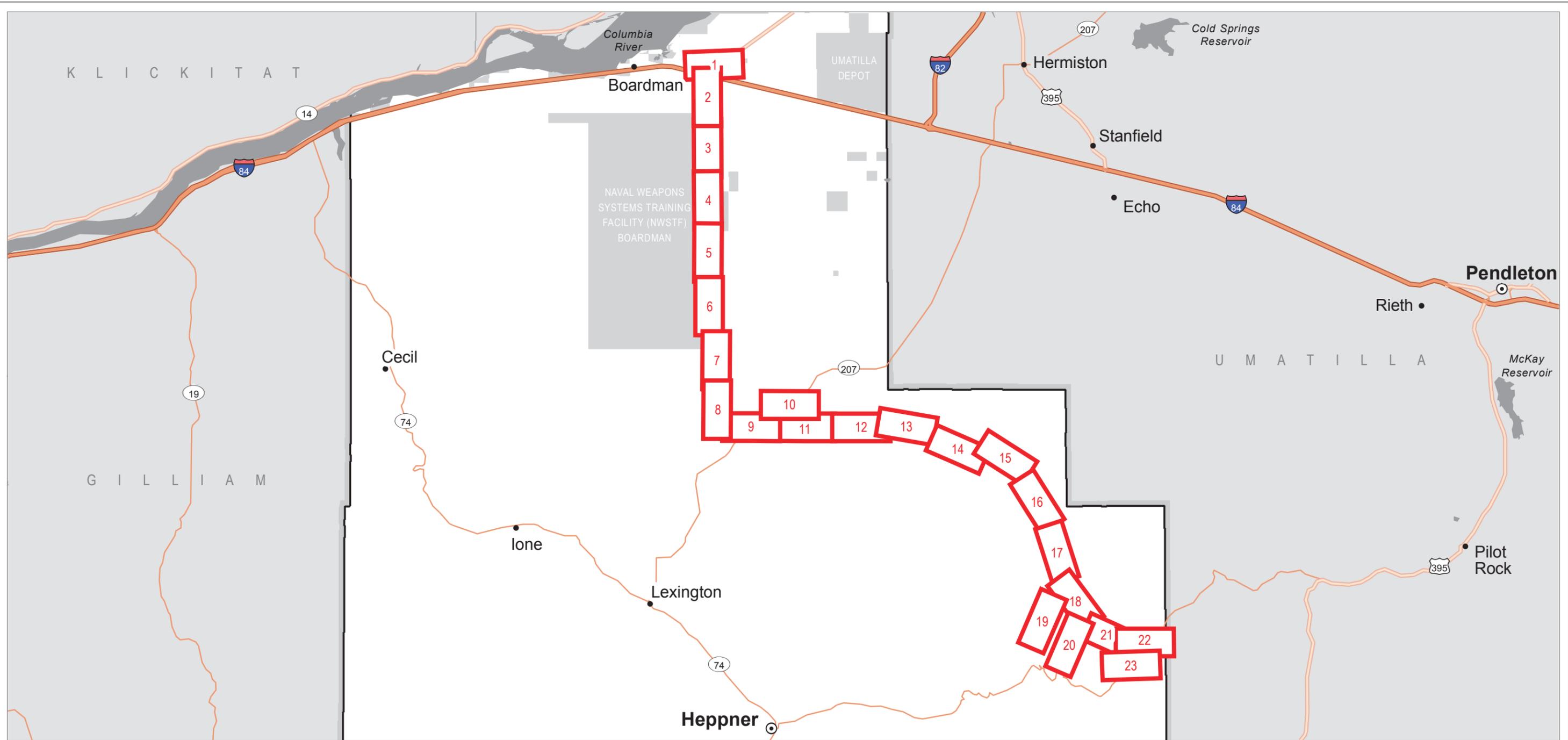


Figure C-1. Proposed Longhorn Station

ATTACHMENT C-2
PROPOSED ROUTE LOCATION



Map Area

Source(s): BLM, IPC, Esri

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Map Index

 Location Map (Map #)

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map Index



- | | | |
|---|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Longhorn Station (Construction Area) Longhorn Station (Operations Area) Multi-Use Area Pulling and Tensioning | <ul style="list-style-type: none"> Structure Work Area Access New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Existing Transmission Lines Pipeline Interstate Highway Other Road | <ul style="list-style-type: none"> Railroad Stream Protected Area (EFSC) Land Status Bureau of Land Management Bureau of Reclamation Private |
|---|---|--|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

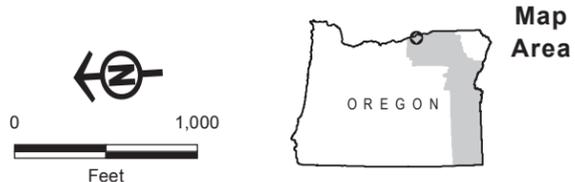
Morrow County

Map 1

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Columbia Basin
Coyote Springs
Wildlife Area



Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Structure Work Area (Removal Only)

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines
- Pipeline
- Interstate
- Highway

Other Road

- Stream
- Protected Area (EFSC)
- Land Status**
- Bureau of Reclamation
- Military Reservation or Corps of Engineers
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



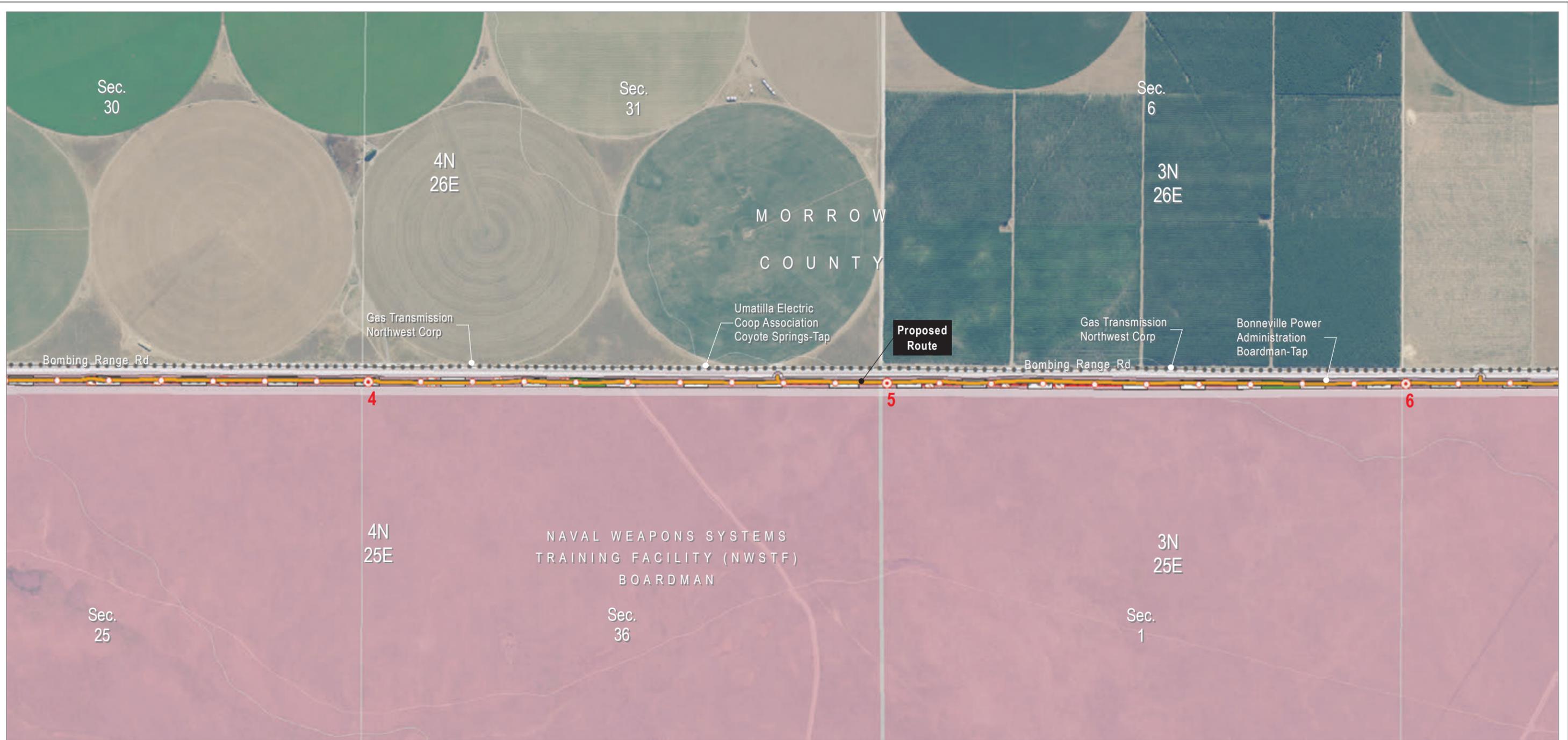
**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 2

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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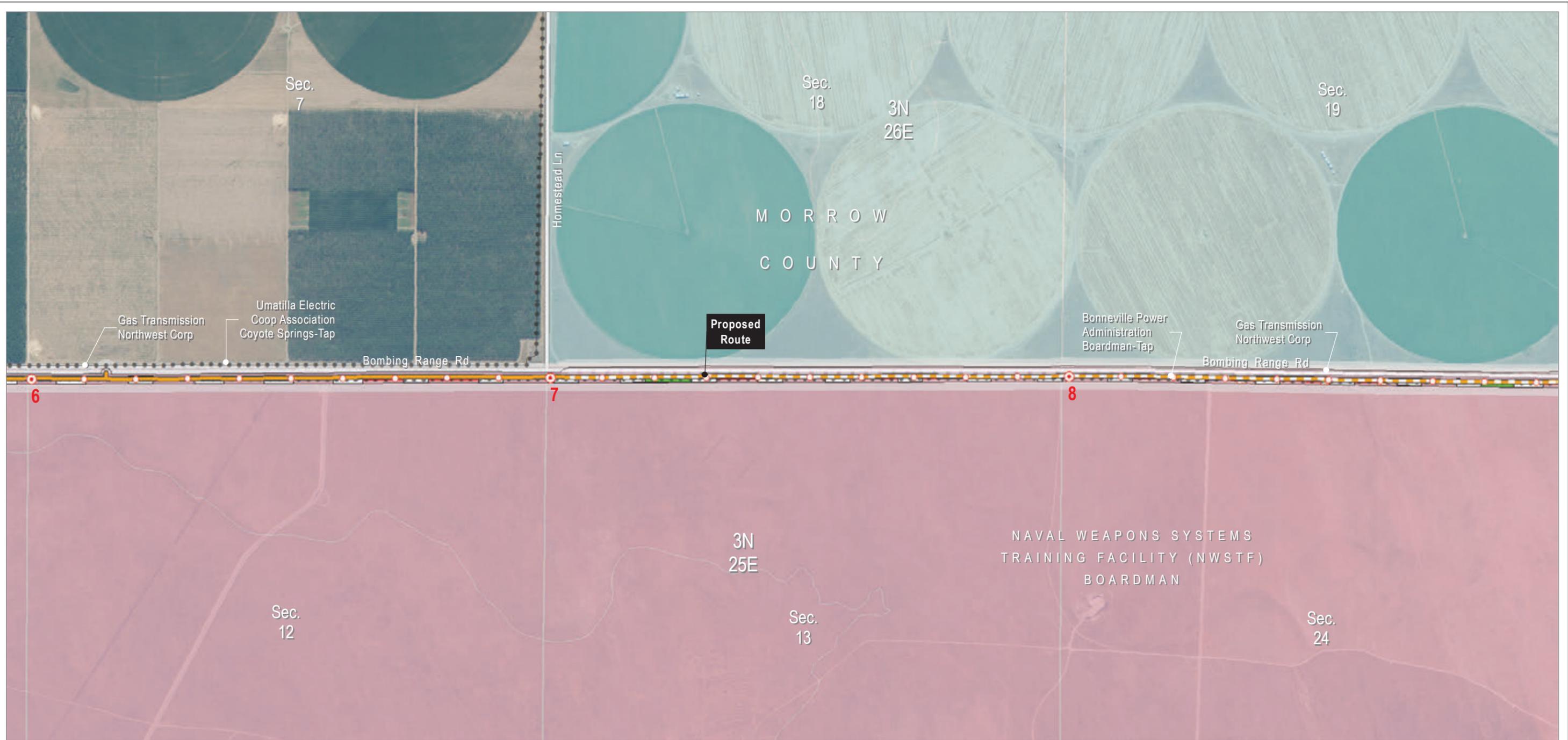
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|---|--|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area Structure Work Area (Removal Only) | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Pipeline Other Road | <p>Land Status</p> <ul style="list-style-type: none"> Military Reservation or Corps of Engineers Private |
|---|--|--|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
 - Structure Work Area (Removal Only)

- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Pipeline
 - Other Road

- Land Status**
- Military Reservation or Corps of Engineers
 - Private
 - State or Local

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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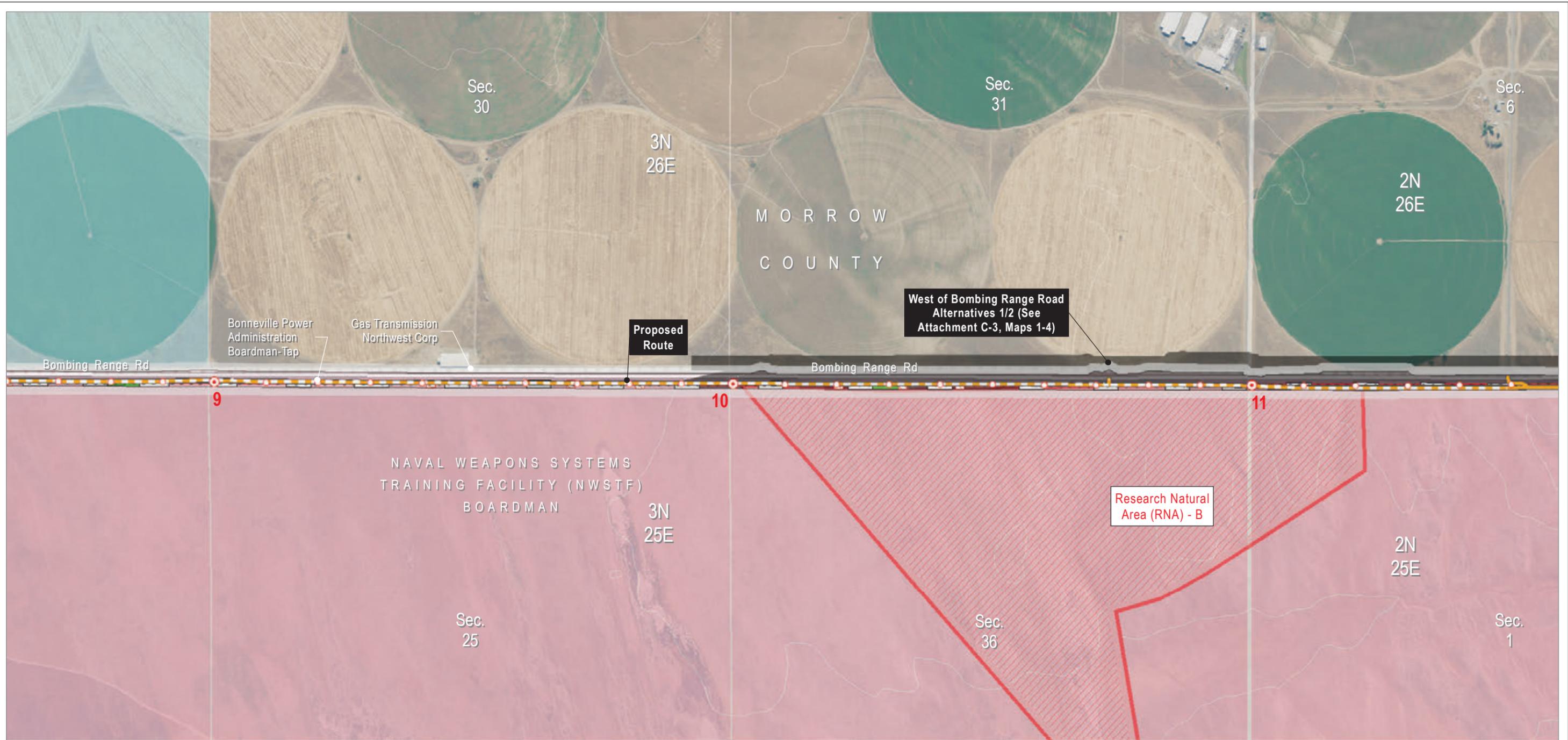
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 4



- | | | |
|--|--|---|
| <p>Project Features</p> <ul style="list-style-type: none"> □ Site Boundary ■ Alternative — Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> ● Mile ○ Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> ■ Pulling and Tensioning □ Structure Work Area ▨ Structure Work Area (Removal Only) | <p>Access</p> <ul style="list-style-type: none"> — Existing Road, Substantial Modification, 21-70% Improvements — New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> ~ 100-foot Contours ● Existing Transmission Lines — Pipeline — Other Road ▨ Protected Area (EFSC) | <p>Land Status</p> <ul style="list-style-type: none"> ■ Military Reservation or Corps of Engineers □ Private ■ State or Local |
|--|--|---|

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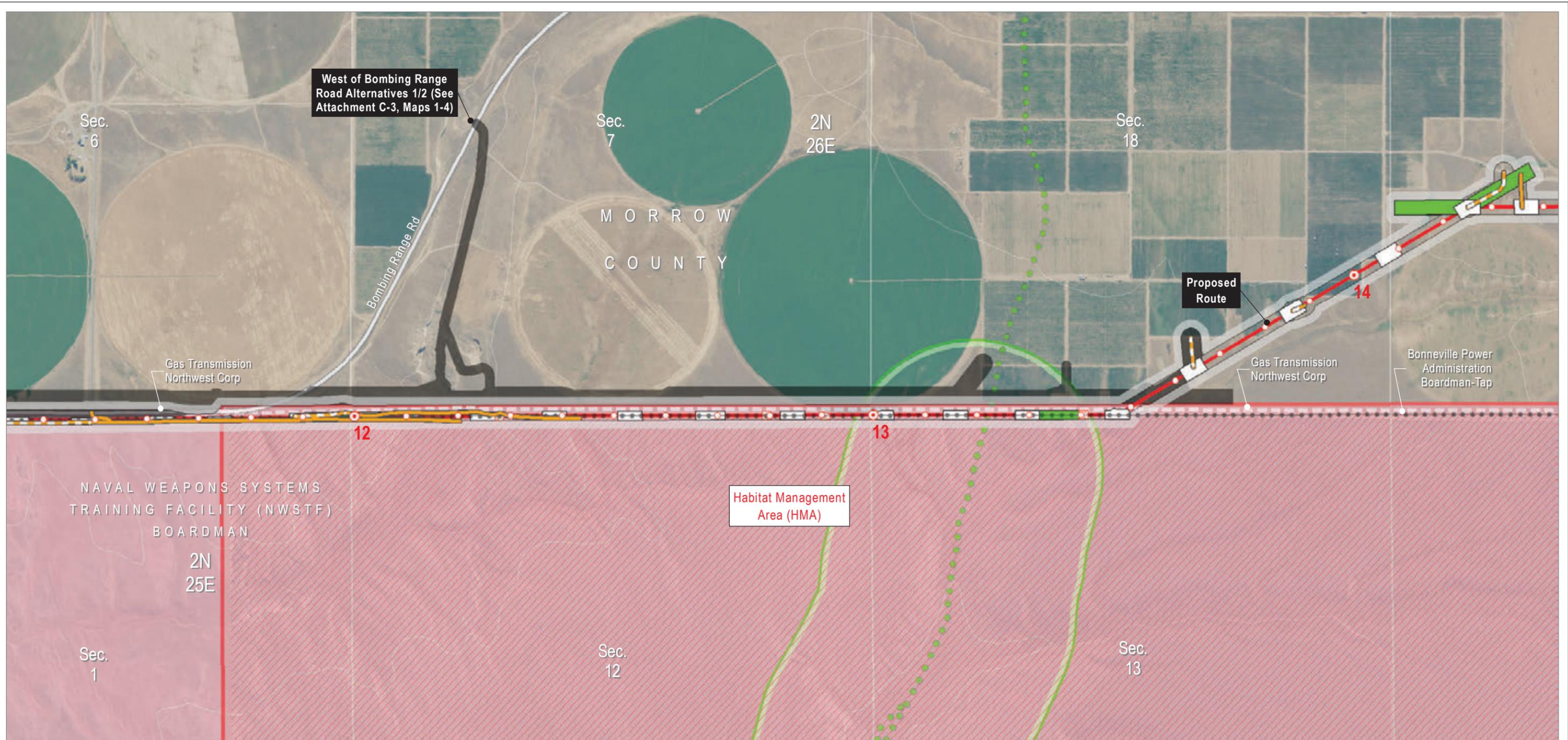


**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 5

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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West of Bombing Range Road Alternatives 1/2 (See Attachment C-3, Maps 1-4)

Proposed Route

Habitat Management Area (HMA)



- | | | |
|--|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area Structure Work Area (Removal Only) | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) Pipeline | <p>Other Road</p> <ul style="list-style-type: none"> Oregon NHT Intact Segment (1/4-mile buffer) <p>Protected Area (EFSC)</p> <ul style="list-style-type: none"> Protected Area (EFSC) <p>Land Status</p> <ul style="list-style-type: none"> Military Reservation or Corps of Engineers Private |
|--|---|---|

Boardman to Hemingway Transmission Line Project
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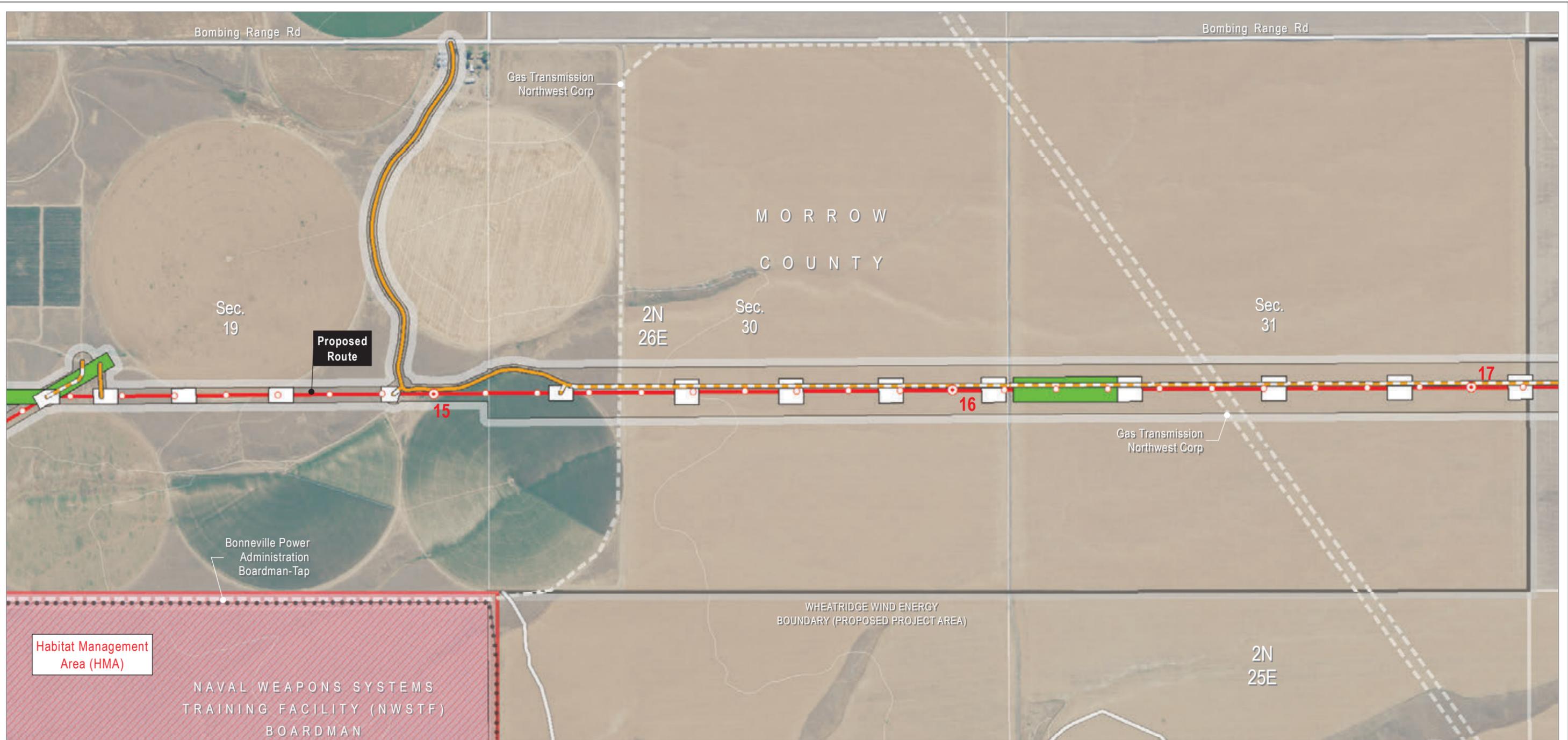


**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 6

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Habitat Management Area (HMA)

NAVAL WEAPONS SYSTEMS TRAINING FACILITY (NWSTF) BOARDMAN

WHEATRIDGE WIND ENERGY BOUNDARY (PROPOSED PROJECT AREA)



Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines
- Pipeline
- Other Road
- Protected Area (EFSC)
- Wheatridge Wind Energy (Project Area)

Land Status

- Military Reservation or Corps of Engineers
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 7

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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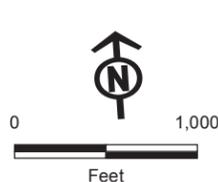
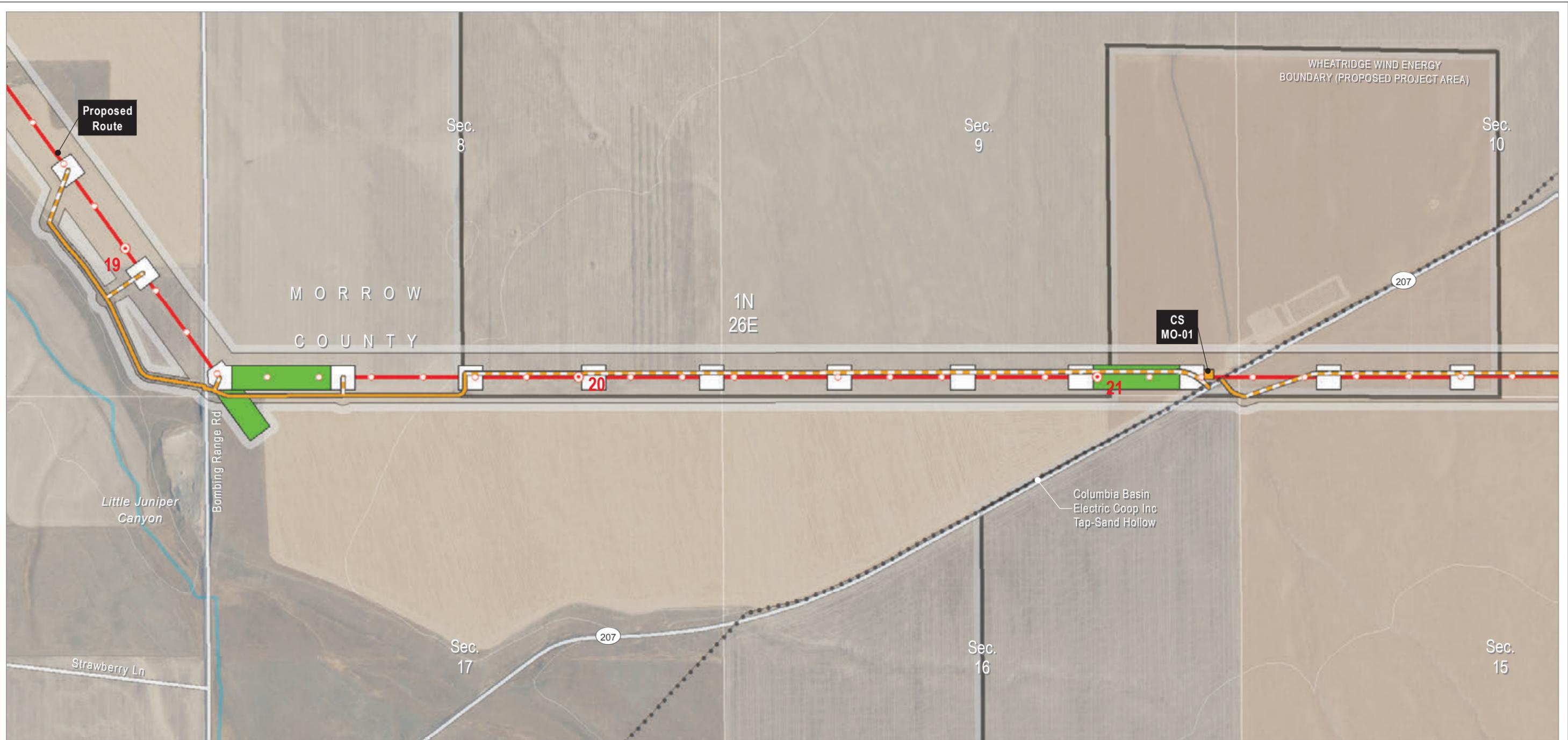
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|--|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Pipeline Other Road Stream Wheatridge Wind Energy (Project Area) <p>Land Status</p> <ul style="list-style-type: none"> Private |
|--|---|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Communication Station
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines
- Other Road
- Stream

- Wheatridge Wind Energy (Project Area)

Land Status

- Private

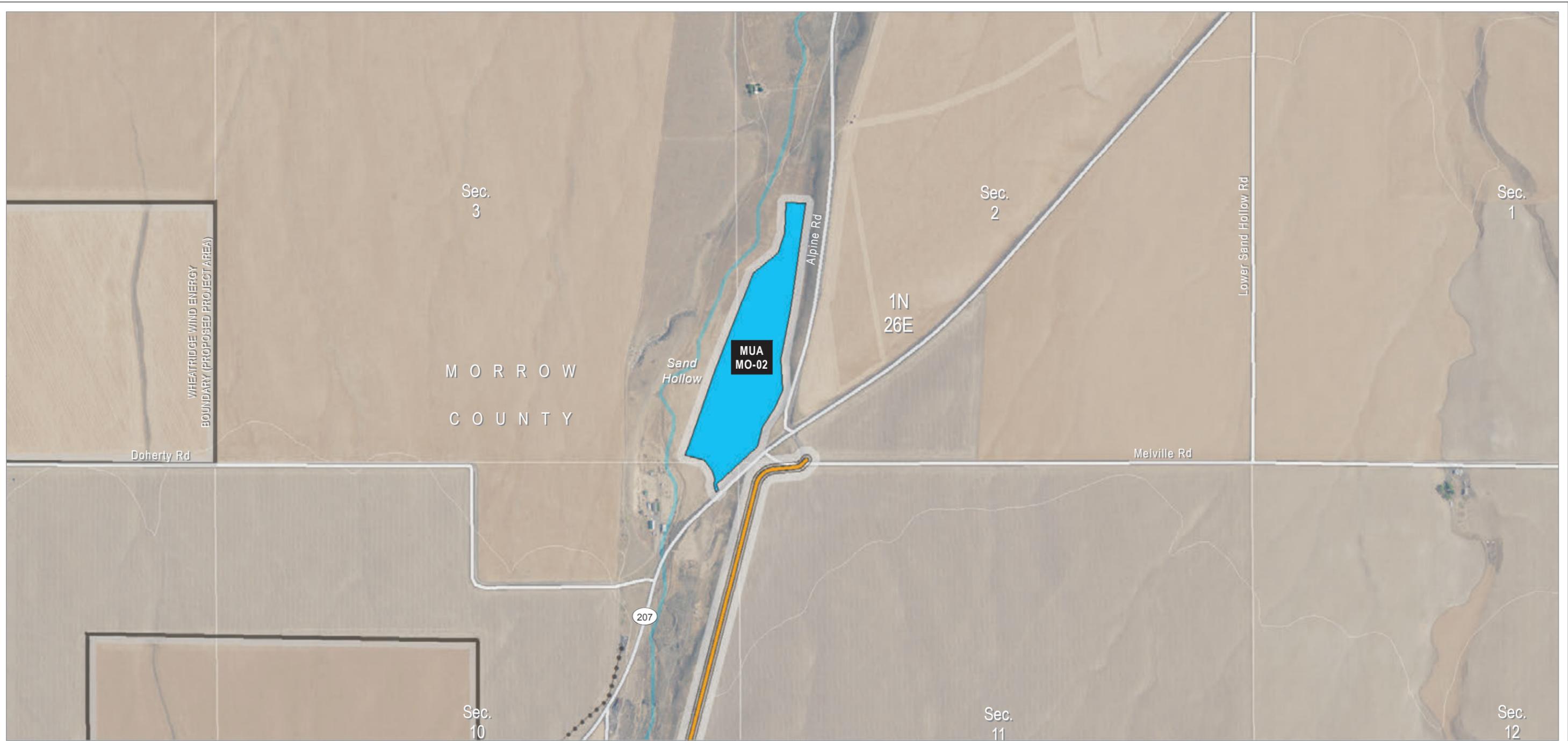
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**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 9

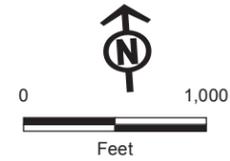


WHEATRIDGE WIND ENERGY
BOUNDARY (PROPOSED PROJECT AREA)

MORROW
COUNTY

MUA
MO-02

207



Map
Area

Project Features

Site Boundary

Work Areas

Multi-Use Area

Access

Existing Road,
Substantial Modification,
21-70% Improvements

**Important Siting
Constraints and Other
Features**

100-foot Contours

Existing Transmission
Lines

Other Road

Stream

Wheatridge Wind Energy
(Project Area)

Land Status

Private

Boardman to Hemingway Transmission Line Project
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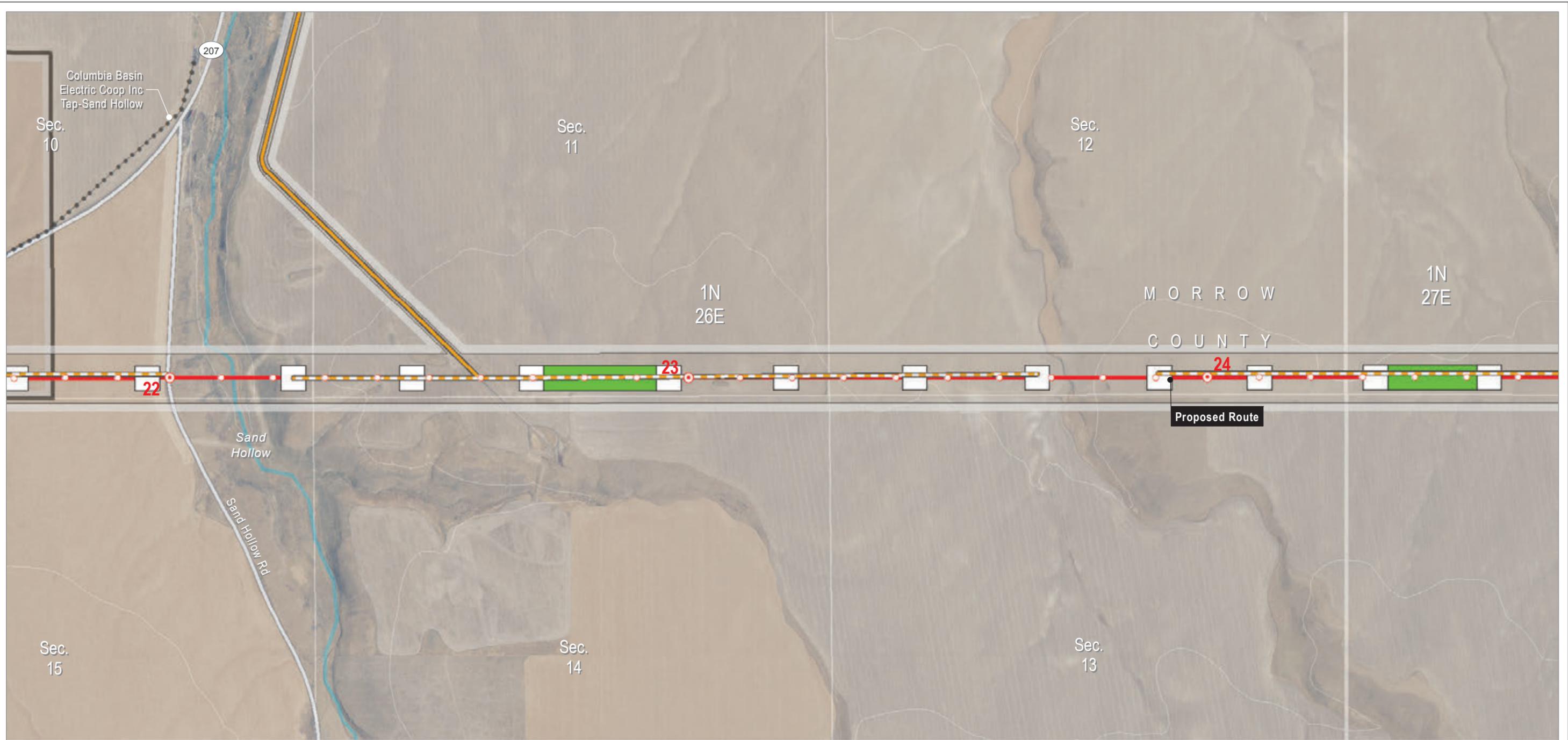
**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 10

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
- Important Siting Constraints and Other Features**
- New Road, Primitive
 - 100-foot Contours
 - Existing Transmission Lines
 - Other Road
 - Stream
 - Wheatridge Wind Energy (Project Area)
- Land Status**
- Private

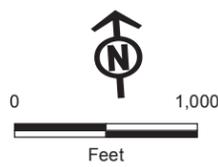
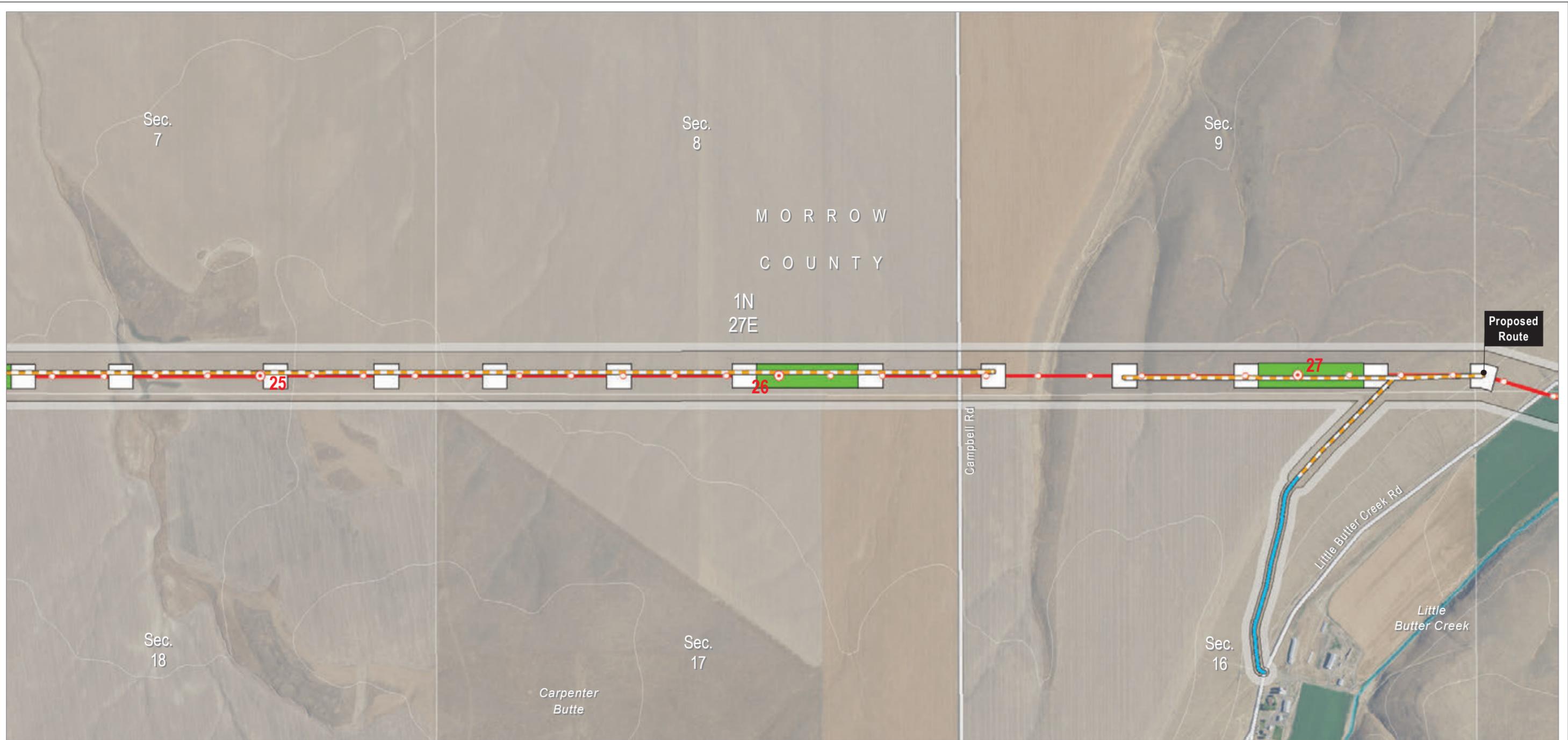
Boardman to Hemingway Transmission Line Project
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**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 11



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- | | | |
|-------------------------|---|--|
| Project Features | | New Road, Primitive |
| Site Boundary | Transmission Centerline | Important Siting Constraints and Other Features |
| Mileposts | | 100-foot Contours |
| Mile | Tenth-mile | Other Road |
| Work Areas | | Stream |
| Pulling and Tensioning | Structure Work Area | Land Status |
| Access | Existing Road, Substantial Modification, 71-100% Improvements | Private |

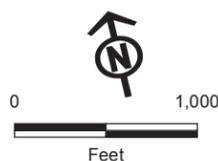
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**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 12



- | | | |
|---|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements Existing Road, Substantial Modification, 71-100% Improvements New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road Stream | <p>Land Status</p> <ul style="list-style-type: none"> Private |
|---|---|---|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 13



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
 - Mileposts**
 - Mile
 - Tenth-mile
 - Work Areas**
 - Pulling and Tensioning
 - Structure Work Area
 - Access**
 - Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
 - Wheatridge Wind Energy (Project Area)
- Land Status**
- Private

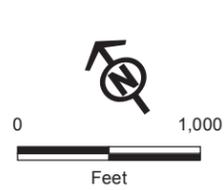
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 14



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road
- Stream
- Wheatridge Wind Energy (Project Area)

Land Status

- Private

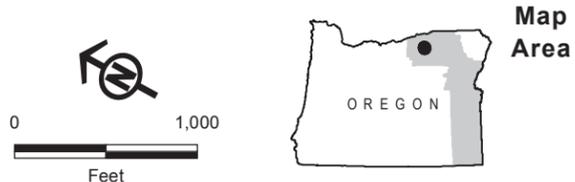
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**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 15



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 16



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- New Road, Bladed
 - New Road, Primitive

- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 17

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road
- Stream
- Land Status**
- Private

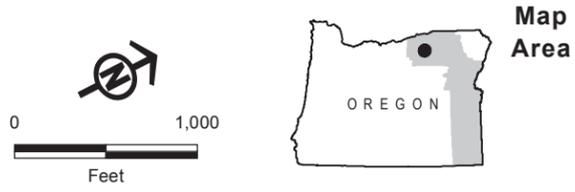
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**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 18



- Project Features**
- Site Boundary
 - Access
 - Existing Road, Substantial Modification, 71-100% Improvements
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - ~ Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

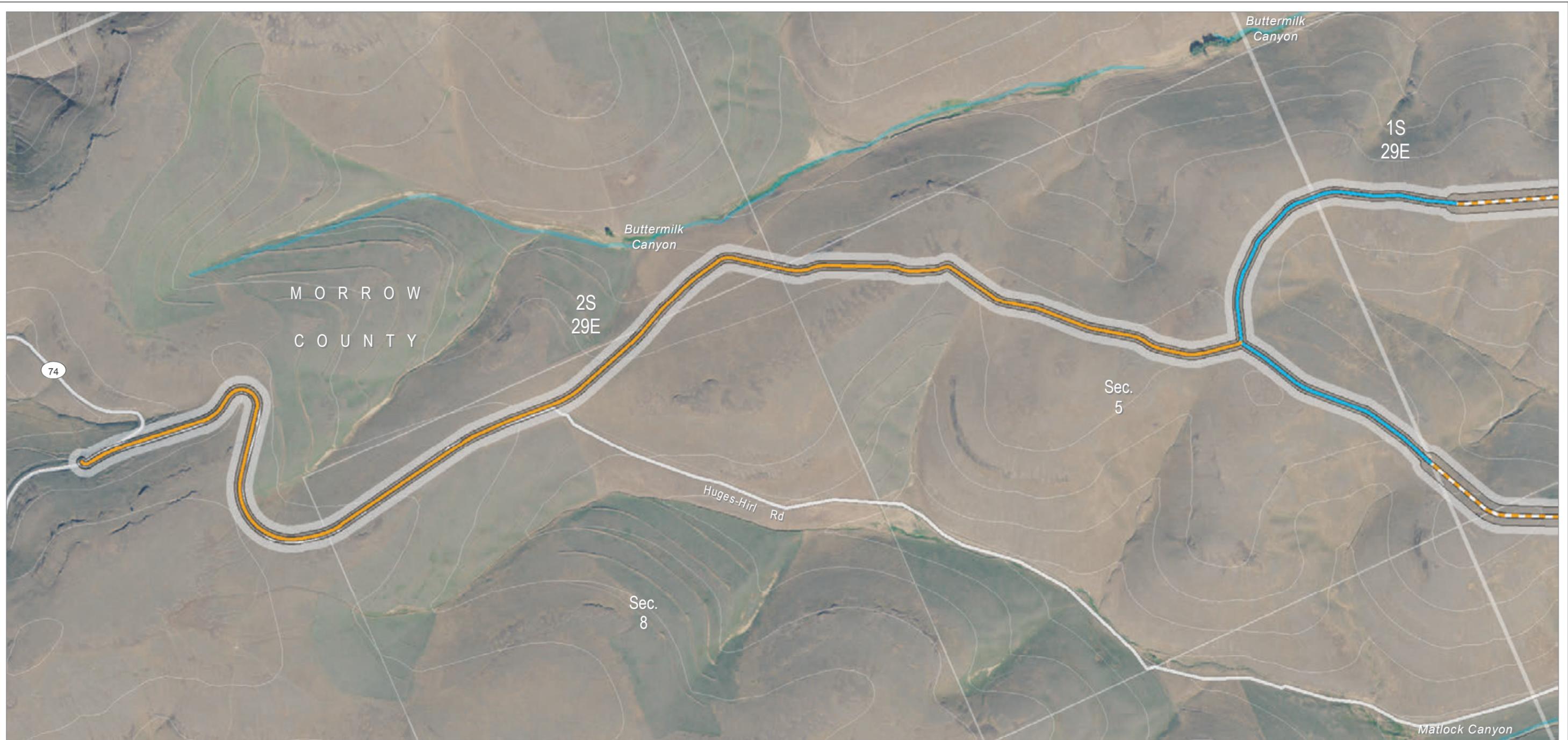


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Proposed Route Location Maps**

Morrow County

Map 19

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Access**
 - Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Primitive
 - Important Siting Constraints and Other Features**
 - 100-foot Contours
- Other Road**
- Other Road
- Stream**
- Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 20



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

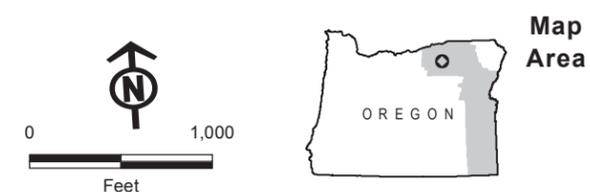
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 21



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- | | |
|--|---|
| Project Features | Existing Road,
Substantial Modification,
71-100% Improvements |
| □ Site Boundary | — New Road, Primitive |
| — Transmission Centerline | Important Siting
Constraints and Other
Features |
| Mileposts | ~ 100-foot Contours |
| ⊙ Mile | ○ Other Road |
| ○ Tenth-mile | ~ Stream |
| Work Areas | Land Status |
| ■ Pulling and Tensioning | ■ Bureau of Land
Management |
| □ Structure Work Area | □ Private |
| Access | |
| — Existing Road,
Substantial Modification,
21-70% Improvements | |

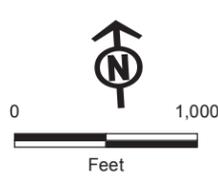
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County

Map 22



Map Area

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Work Areas**
- Multi-Use Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

Important Siting Constraints and Other Features

- 100-foot Contours
- Other Road
- Stream

Land Status

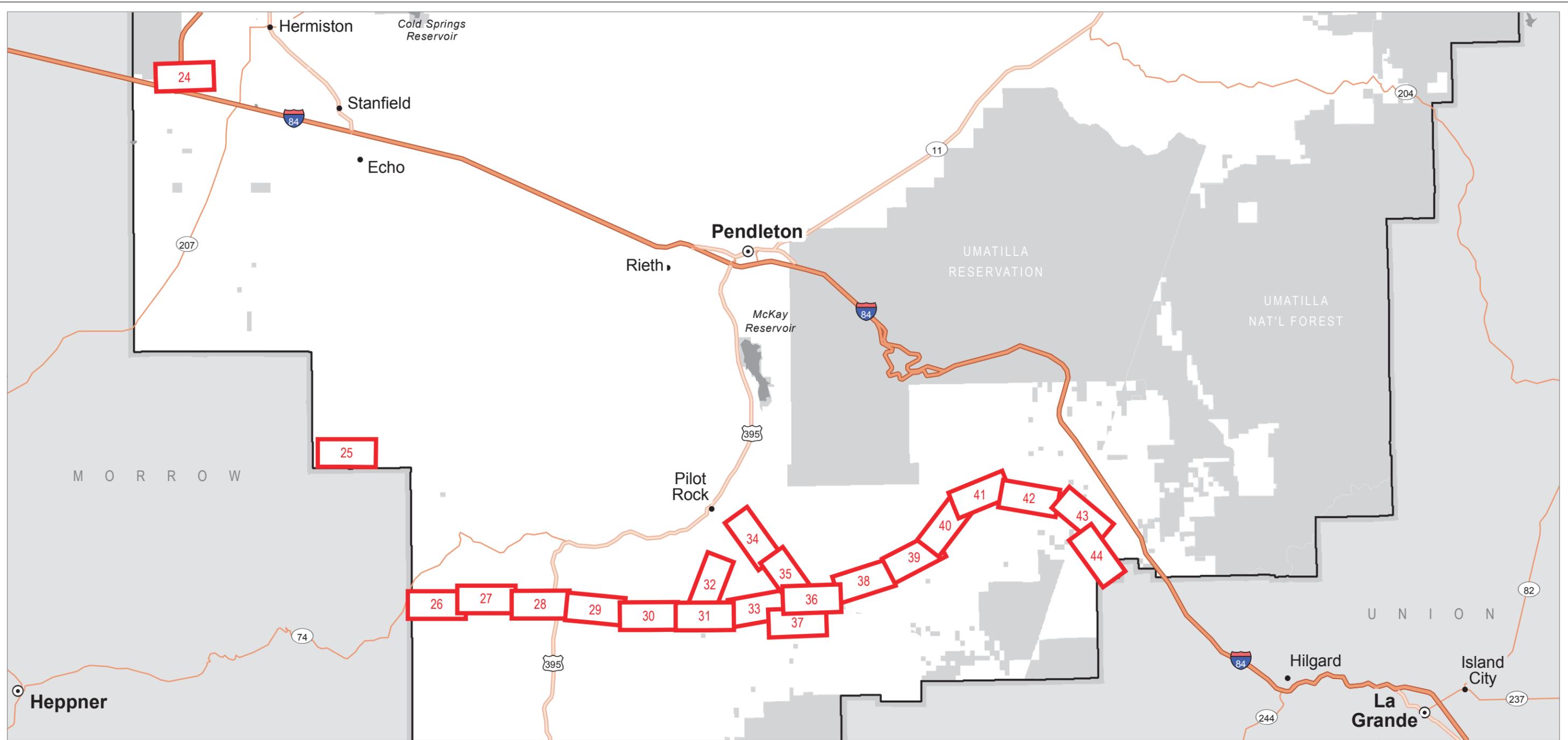
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Morrow County



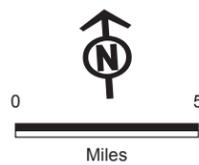
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map Index

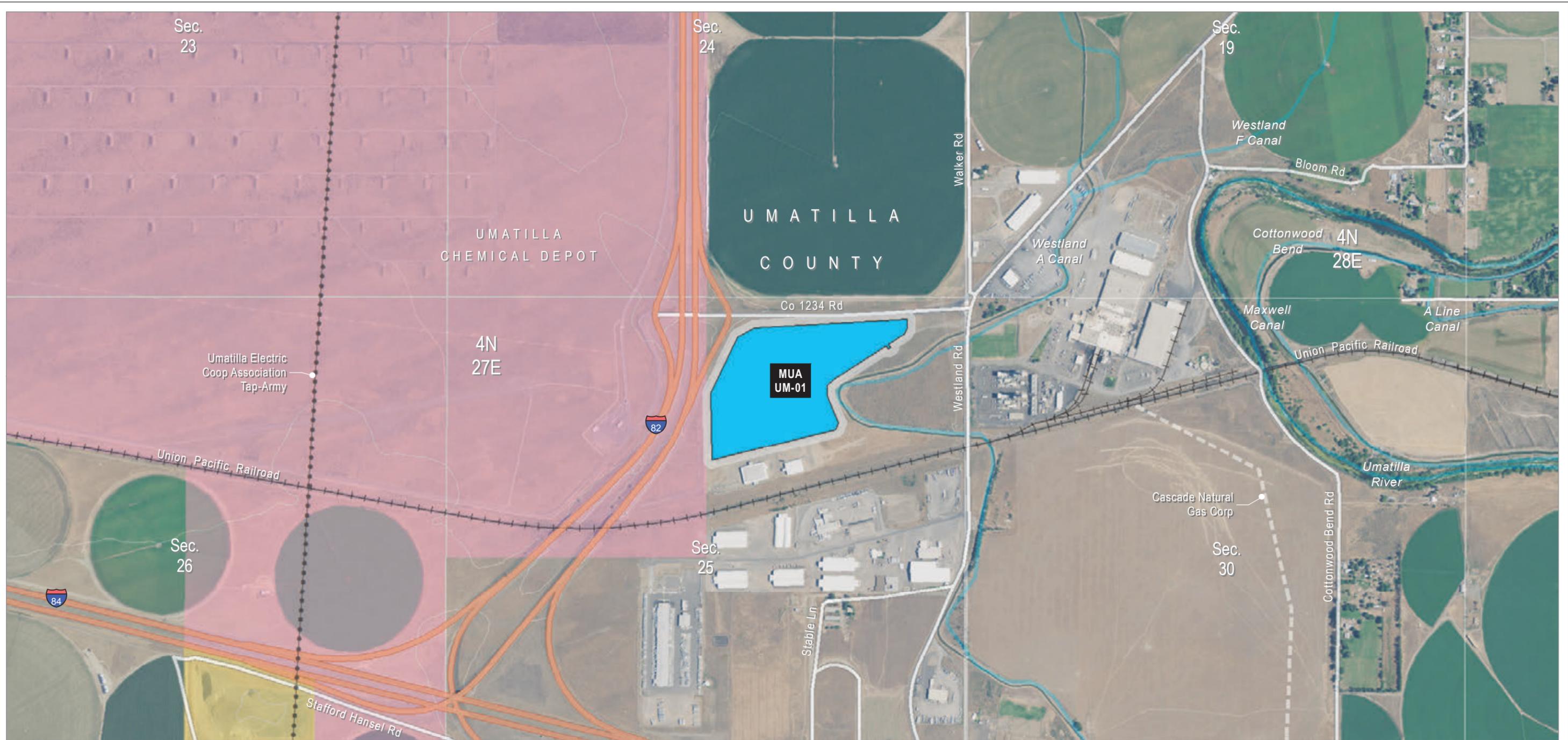


Map Index

Location Map (Map #)

Source(s): BLM, IPC, Esri

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ASCI\Exhibits\C_Project Location Maps\Attachment C-2\Index_Umatilla.mxd



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Work Areas
 - Multi-Use Area
- Important Siting Constraints and Other Features**
- ~ 100-foot Contours
 - Existing Transmission Lines
 - Pipeline
 - Interstate
 - Other Road
- Land Status**
- Railroad
 - ~ Stream
 - Bureau of Land Management
 - Military Reservation or Corps of Engineers
 - Private

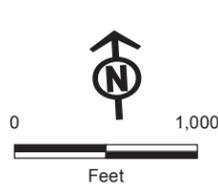
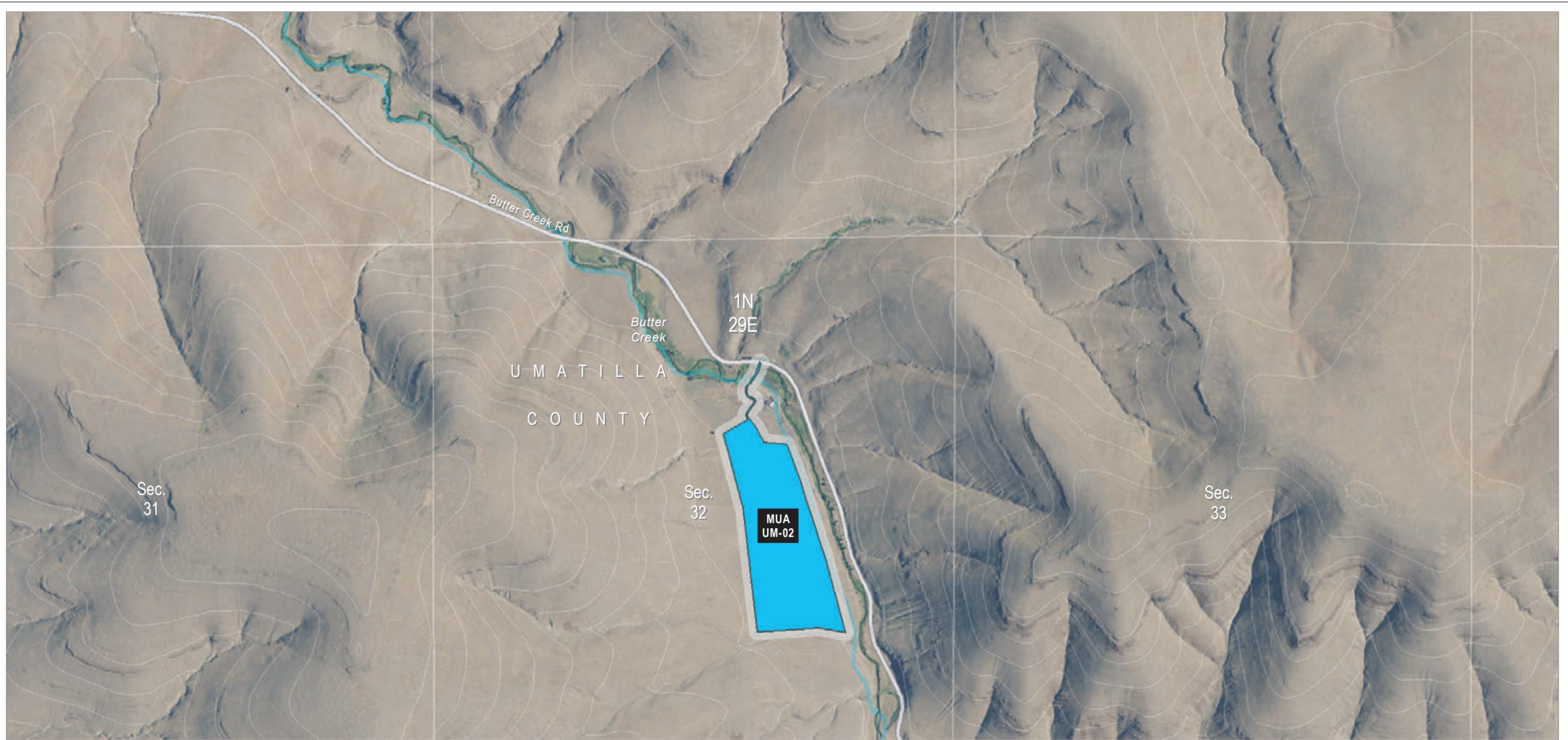
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 24



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

□ Site Boundary

Work Areas

■ Multi-Use Area

Important Siting Constraints and Other Features

~ 100-foot Contours

— Other Road

~ Stream

Land Status

□ Private

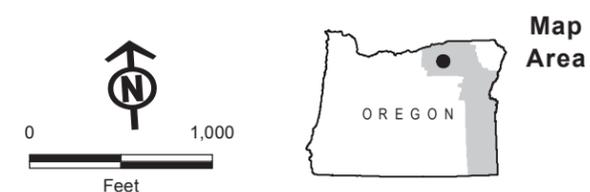
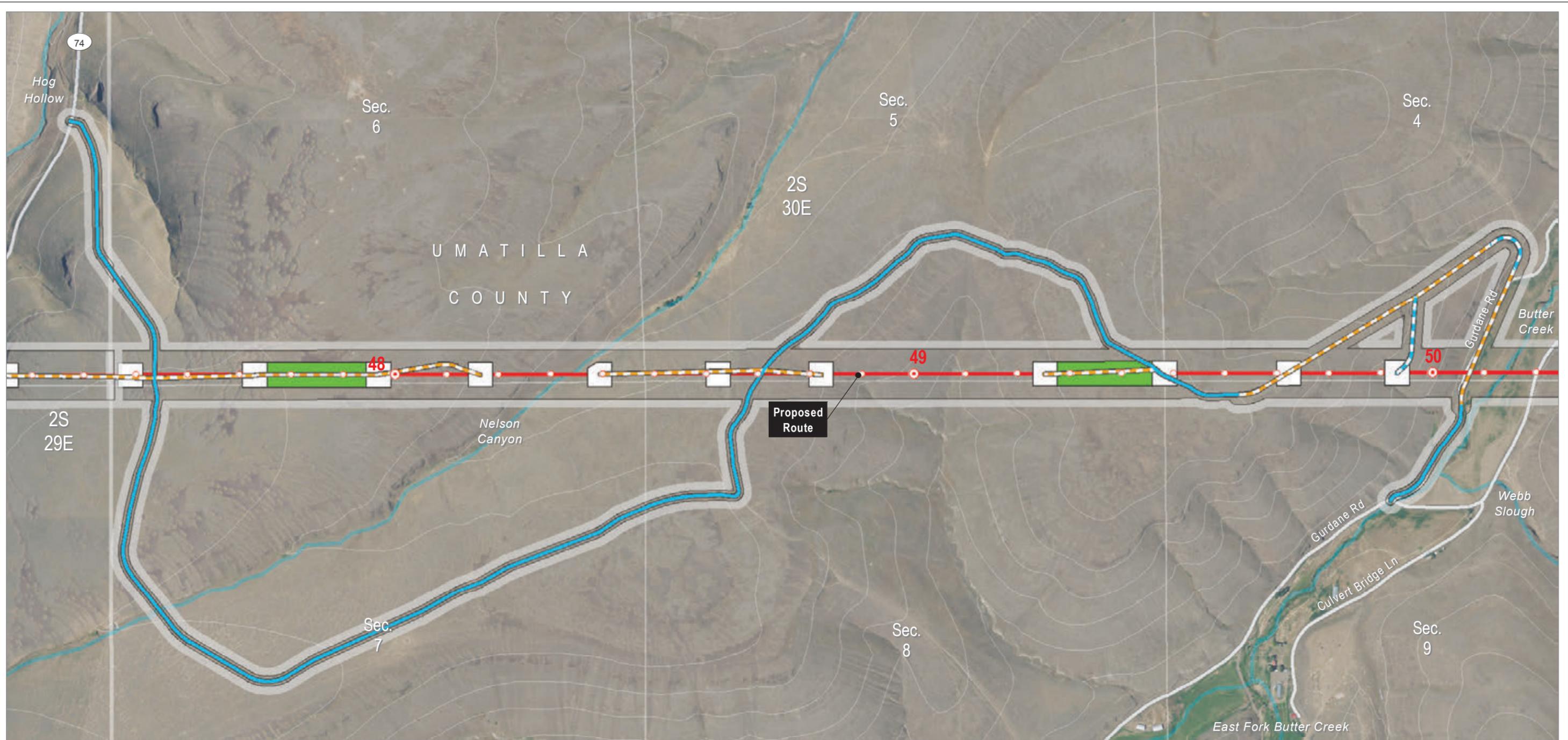
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 25



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

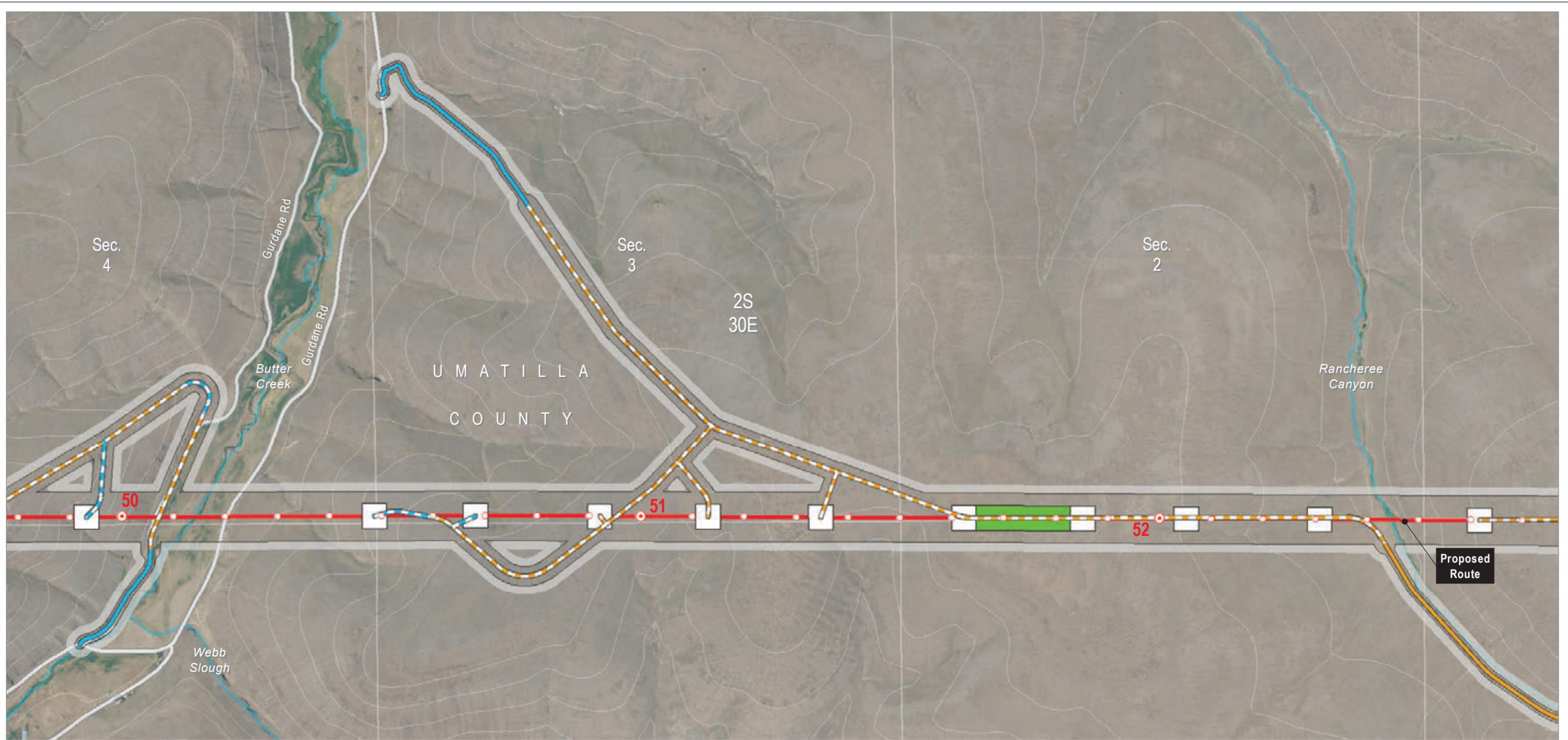
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 26



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

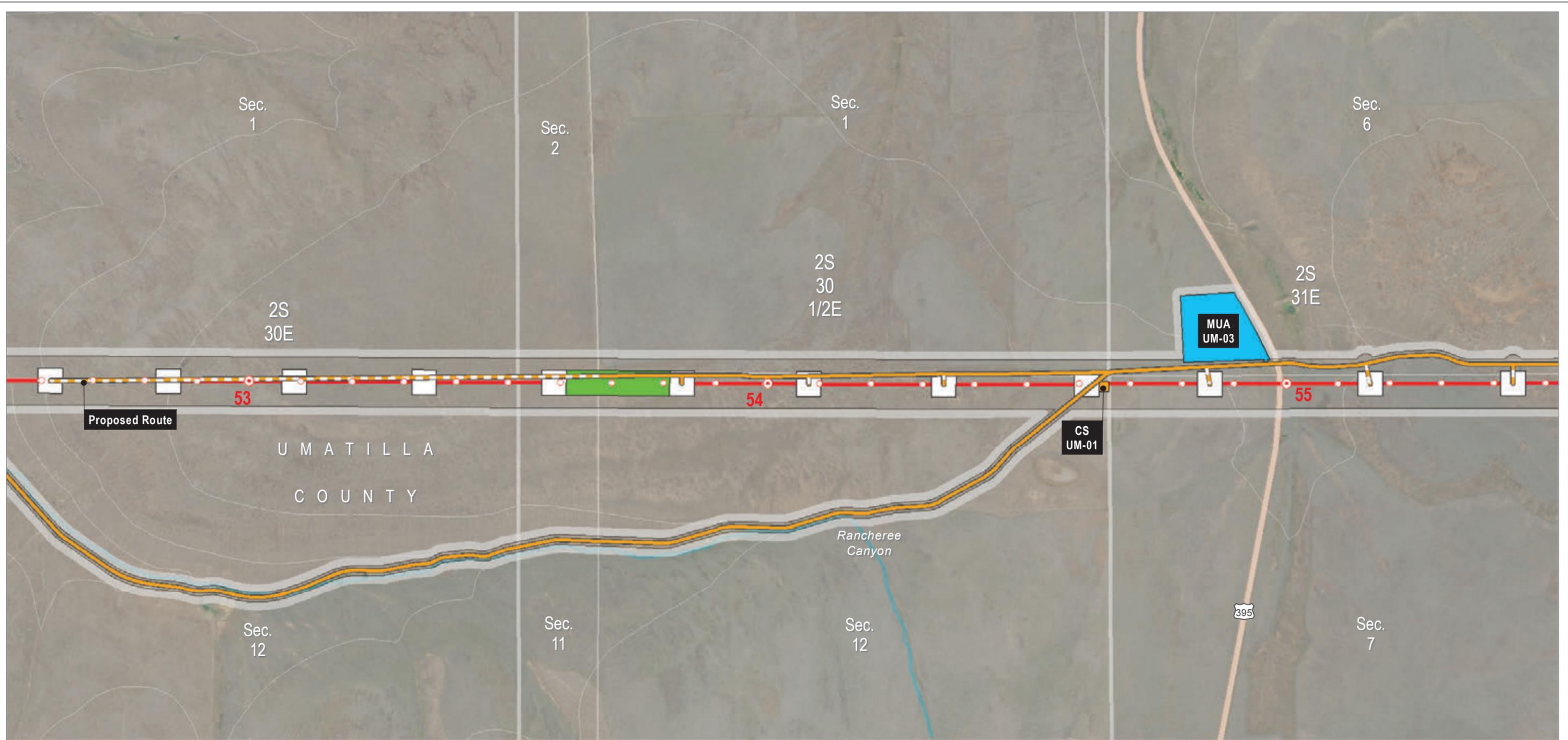
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 27



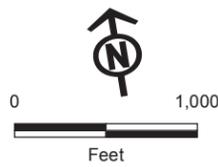
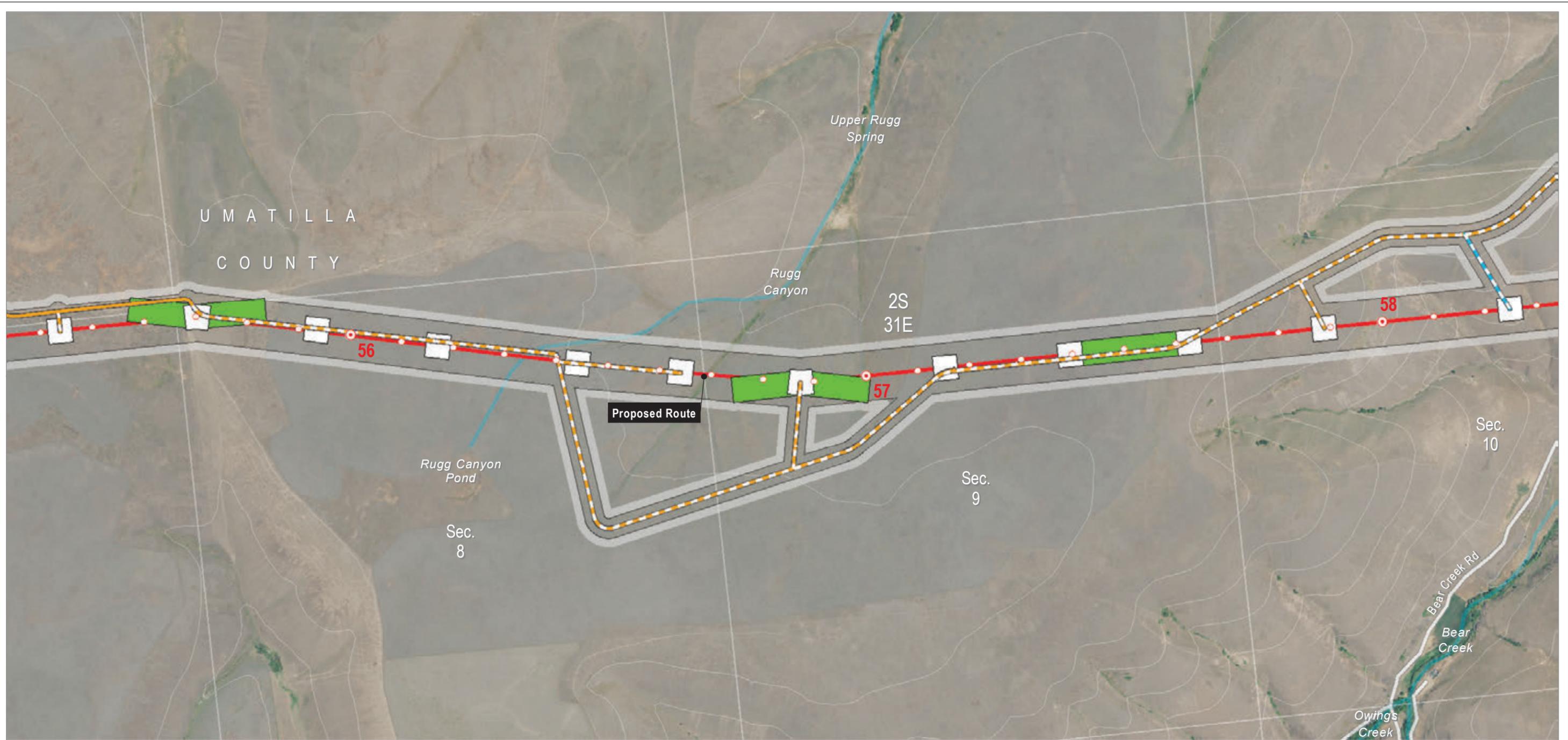
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Communication Station
 - Multi-Use Area
 - Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Highway
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

Attachment C-2
Proposed Route Location Maps
Umatilla County
Map 28



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- | | | |
|--|-------------------------|--|
| Project Features | | New Road, Bladed |
| Site Boundary | Transmission Centerline | New Road, Primitive |
| Mileposts | | |
| Mile | Tenth-mile | Important Siting Constraints and Other Features |
| Work Areas | | |
| Pulling and Tensioning | Structure Work Area | 100-foot Contours |
| Access | | |
| Existing Road, Substantial Modification, 21-70% Improvements | Private | Other Road |
| | | Stream |

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 29



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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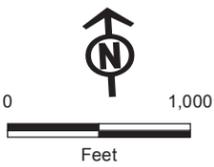
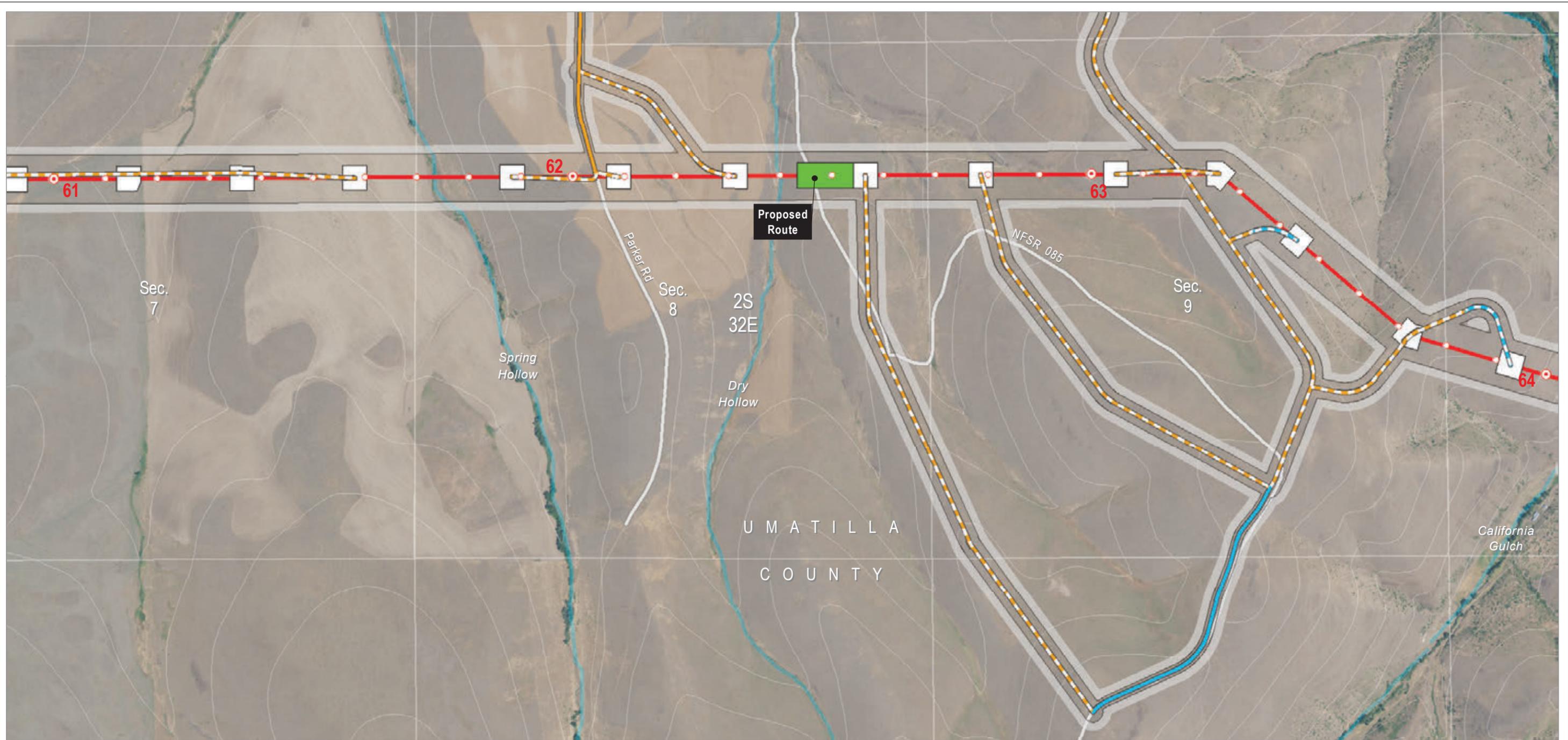
- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road
- Stream
- Land Status**
- Private

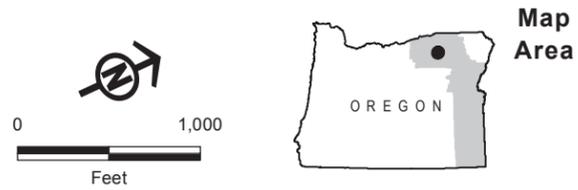
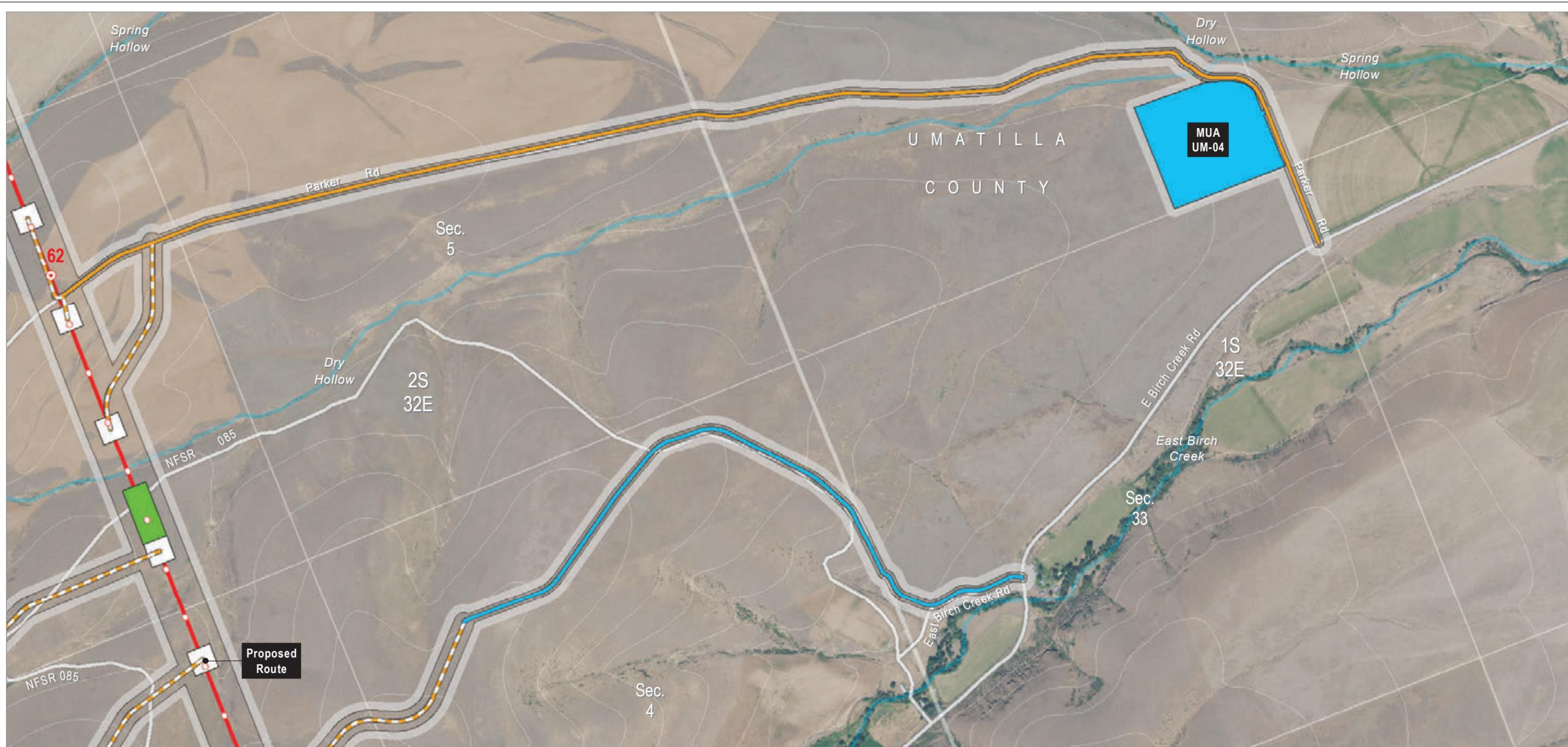
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 31



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Multi-Use Area
 - Pulling and Tensioning
 - Structure Work Area

- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream

- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

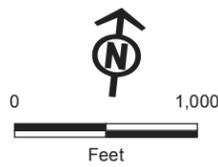


**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 32

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

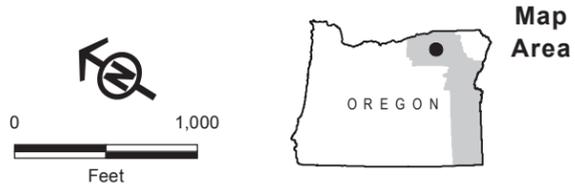
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 33



- Project Features**
- Site Boundary
 - Access
 - Existing Road, Substantial Modification, 71-100% Improvements
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 34

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Primitive

- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

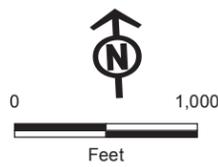


**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 35

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

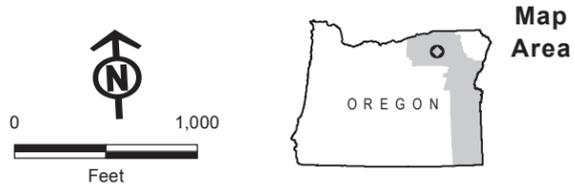
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 36



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
- Work Areas**
- Multi-Use Area
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

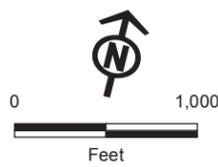
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 37



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

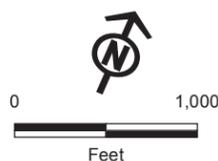
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 38



- | | | |
|---|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements Existing Road, Substantial Modification, 71-100% Improvements New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road Stream | <p>Land Status</p> <ul style="list-style-type: none"> Private |
|---|---|---|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 39

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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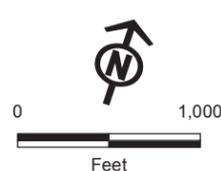
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Multi-Use Area
 - Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

Attachment C-2
Proposed Route Location Maps
Umatilla County
Map 40



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Communication Station
 - Multi-Use Area
 - Pulling and Tensioning
 - Structure Work Area

- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream

- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

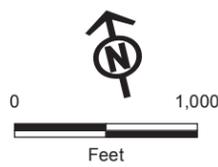
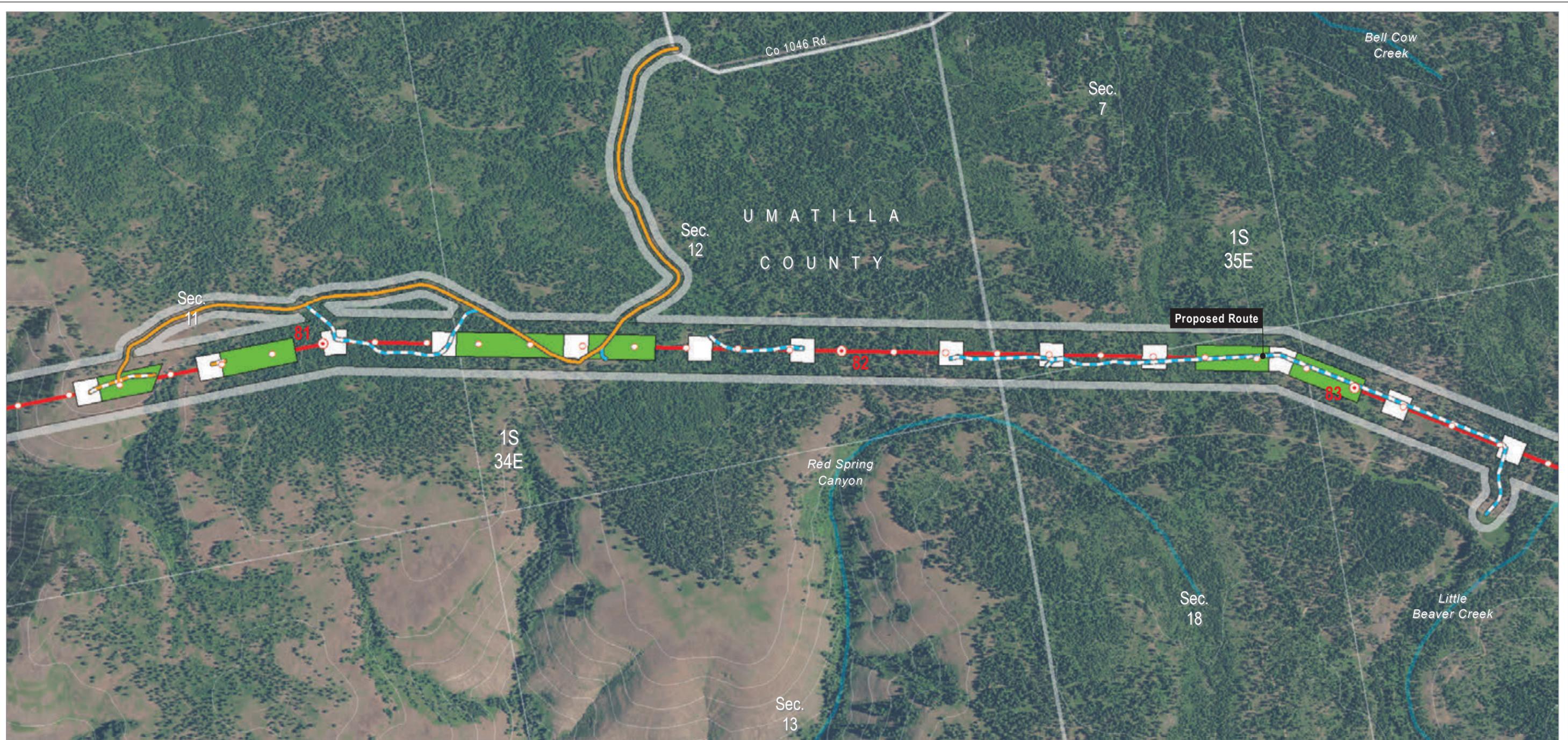


**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 41

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 42



- | | | |
|---|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Bladed</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road Railroad Stream | <p>Land Status</p> <ul style="list-style-type: none"> Indian Reservation Private |
|---|---|--|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

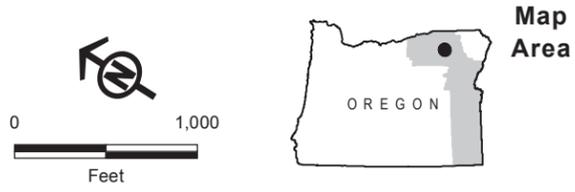


**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 43

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- ▨ Light-Duty Fly Yard
 - ▨ Pulling and Tensioning
 - Structure Work Area

- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- ~ 100-foot Contours
 - Other Road

- Stream**
- Stream
- Land Status**
- ▨ Indian Reservation
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

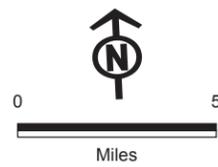
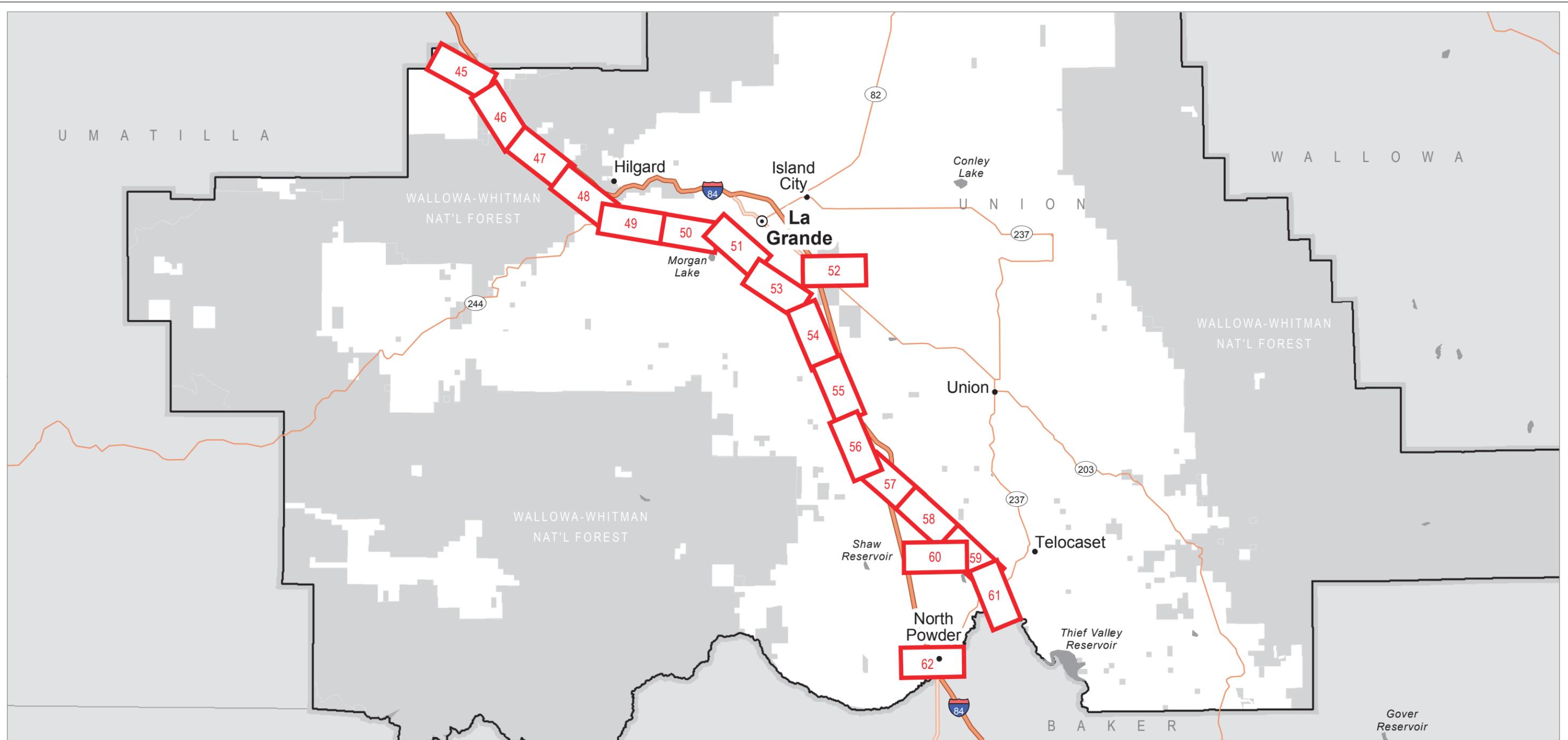


**Attachment C-2
Proposed Route Location Maps**

Umatilla County

Map 44

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Map Area

Map Index
 [Red Box] Location Map (Map #)

Source(s): BLM, IPC, Esri
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Boardman to Hemingway Transmission Line Project
 Application for Site Certificate



**Attachment C-2
 Proposed Route Location Maps**

Union County

Map Index



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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|---|--|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Existing Transmission Lines Pipeline Interstate Road | <ul style="list-style-type: none"> Railroad Stream Wallowa-Whitman NF Utility Corridor (MA-17) Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) Land Status Bureau of Land Management Forest Service Private | <ul style="list-style-type: none"> State or Local State or Local Parks and Recreation or Wildlife |
|---|--|---|---|

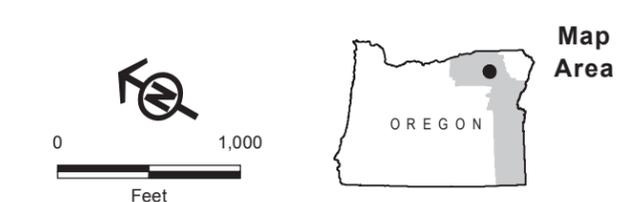
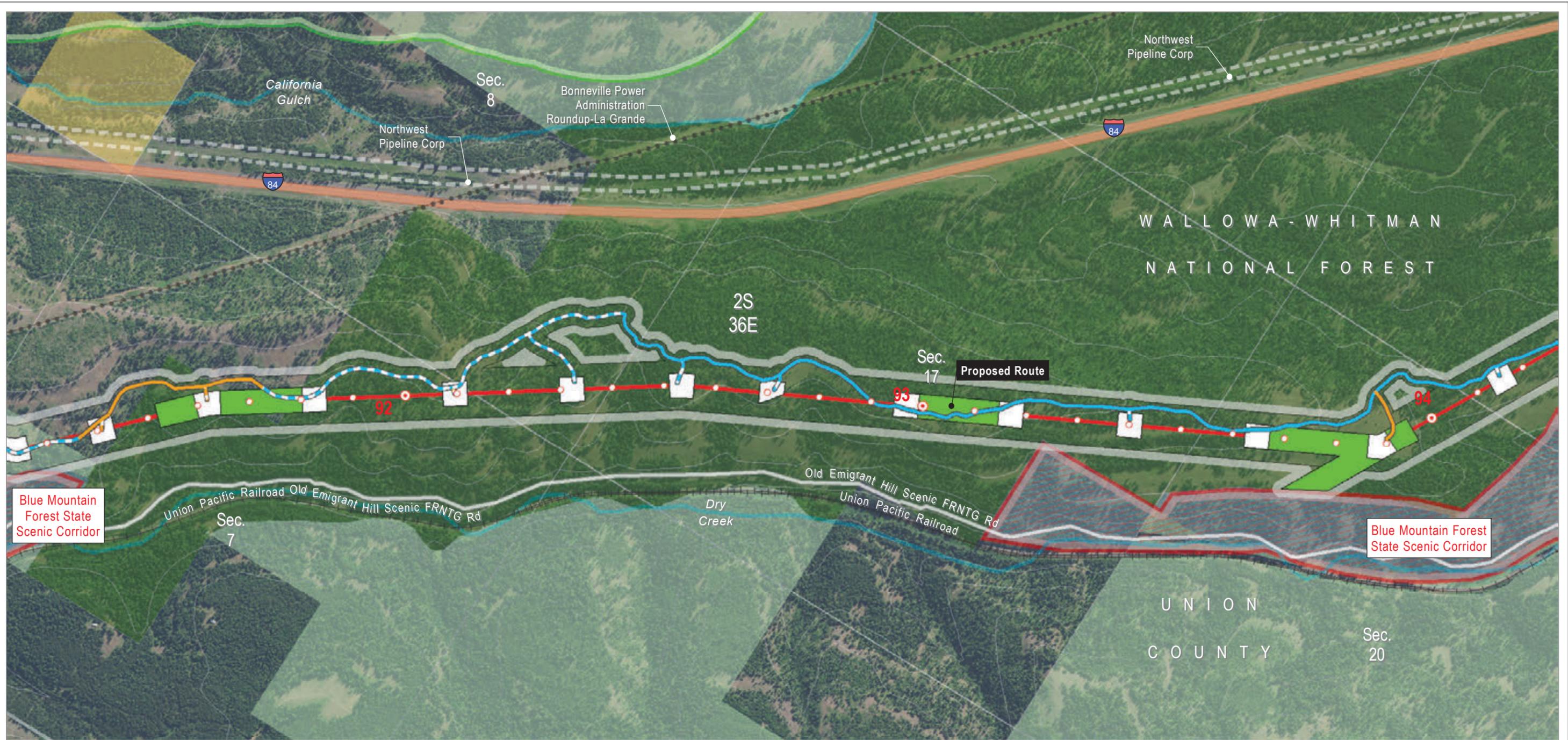
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 45



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|--|--|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Existing Transmission Lines Pipeline Interstate Road | <ul style="list-style-type: none"> Railroad Stream Wallowa-Whitman NF Utility Corridor (MA-17) Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) Land Status Bureau of Land Management Forest Service Private | <ul style="list-style-type: none"> State or Local Parks and Recreation or Wildlife |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

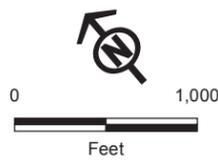


**Attachment C-2
Proposed Route Location Maps**

Union County

Map 46

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Existing Transmission Lines Pipeline Interstate Road | <ul style="list-style-type: none"> Railroad Stream Wallowa-Whitman NF Utility Corridor (MA-17) Protected Area (EFSC) Land Status Forest Service Private State or Local Parks and Recreation or Wildlife |
|--|--|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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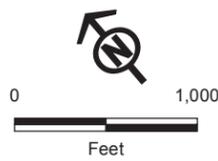
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 47



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Alternative
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines
- Pipeline
- Interstate

Road

- Stream
- Wallowa-Whitman NF Utility Corridor (MA-17)
- Protected Area (EFSC)
- Land Status**
- Forest Service
- Private
- State or Local Parks and Recreation or Wildlife

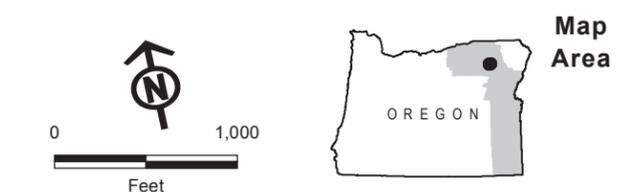
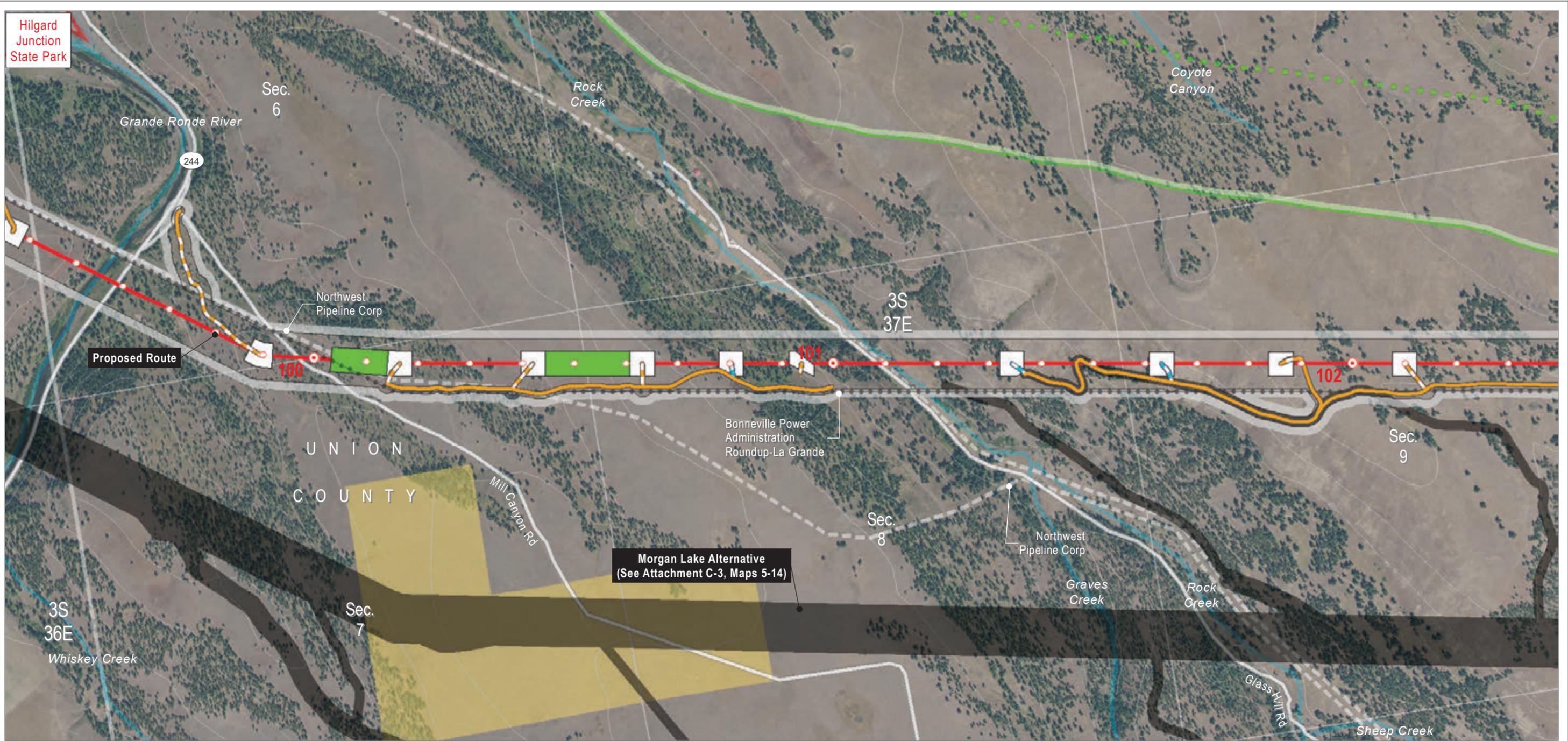
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 48



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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|--|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) | <p>Pipeline</p> <ul style="list-style-type: none"> Pipeline Road Stream Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private State or Local Parks and Recreation or Wildlife |
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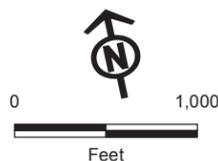
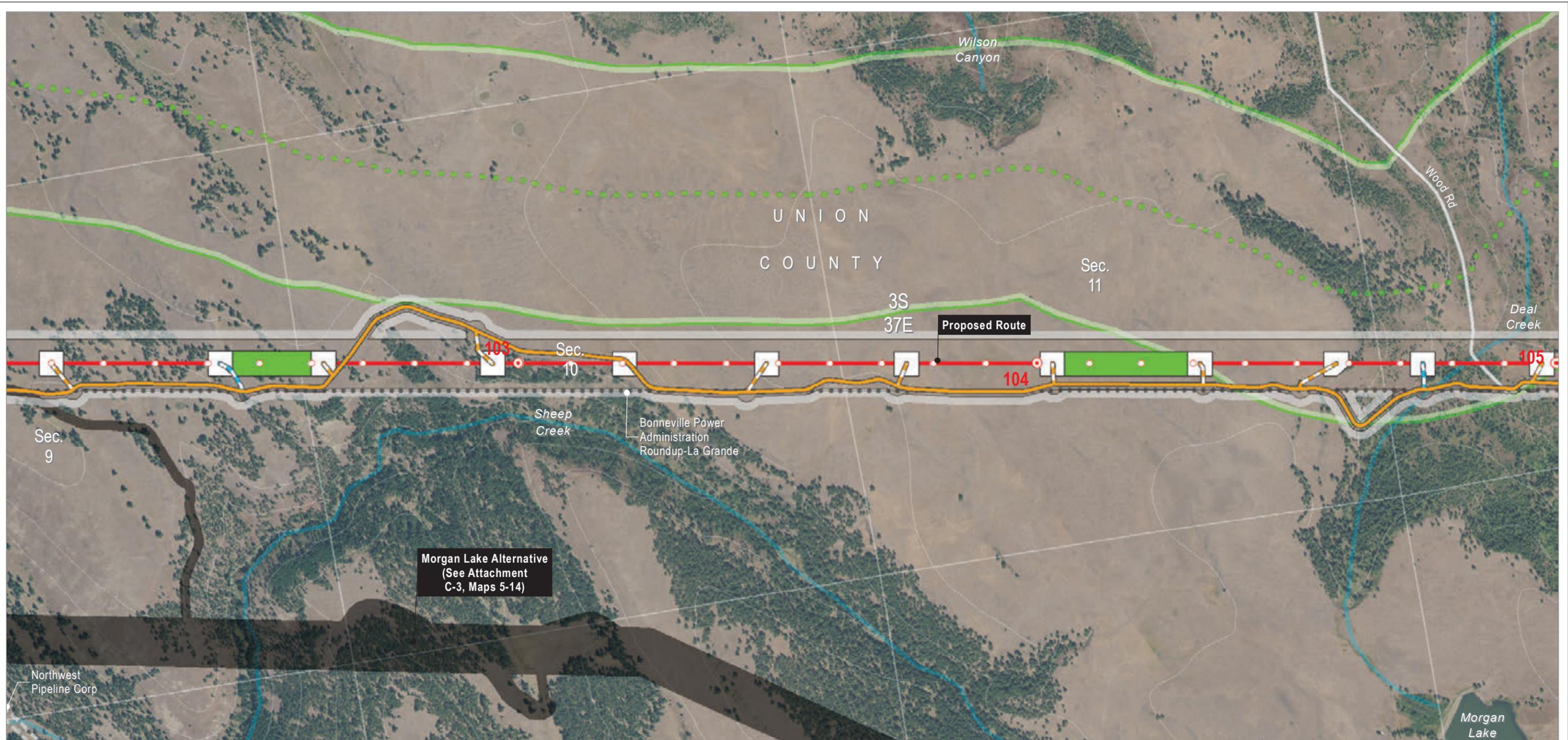
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 49



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|---|--|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) | <p>Land Status</p> <ul style="list-style-type: none"> Pipeline Road Stream Oregon NHT Intact Segment (1/4-mile buffer) Private |
|---|--|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 50



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Communication Station
 - Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Bladed
 - New Road, Primitive
 - Distribution Line to Communication Station (IPC Service Territory Only)
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines**
- Existing Transmission Lines
- Land Status**
- Private
- Other Features**
- Oregon National Historic Trail (NHT)
 - Pipeline
 - Road
 - Stream
 - City Limits
 - Oregon NHT Intact Segment (1/4-mile buffer)

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

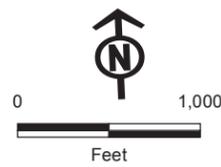


**Attachment C-2
Proposed Route Location Maps**

Union County

Map 51

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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



Attachment C-2
Proposed Route Location Maps

Union County

Map 52



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Pipeline
 - Road
 - Scenic Byway (Type)
 - Stream

- Airport Controlled Airspace (Height Restrictions Apply)
 - Protected Area (EFSC)
- Land Status**
- Private
 - State or Local Parks and Recreation or Wildlife

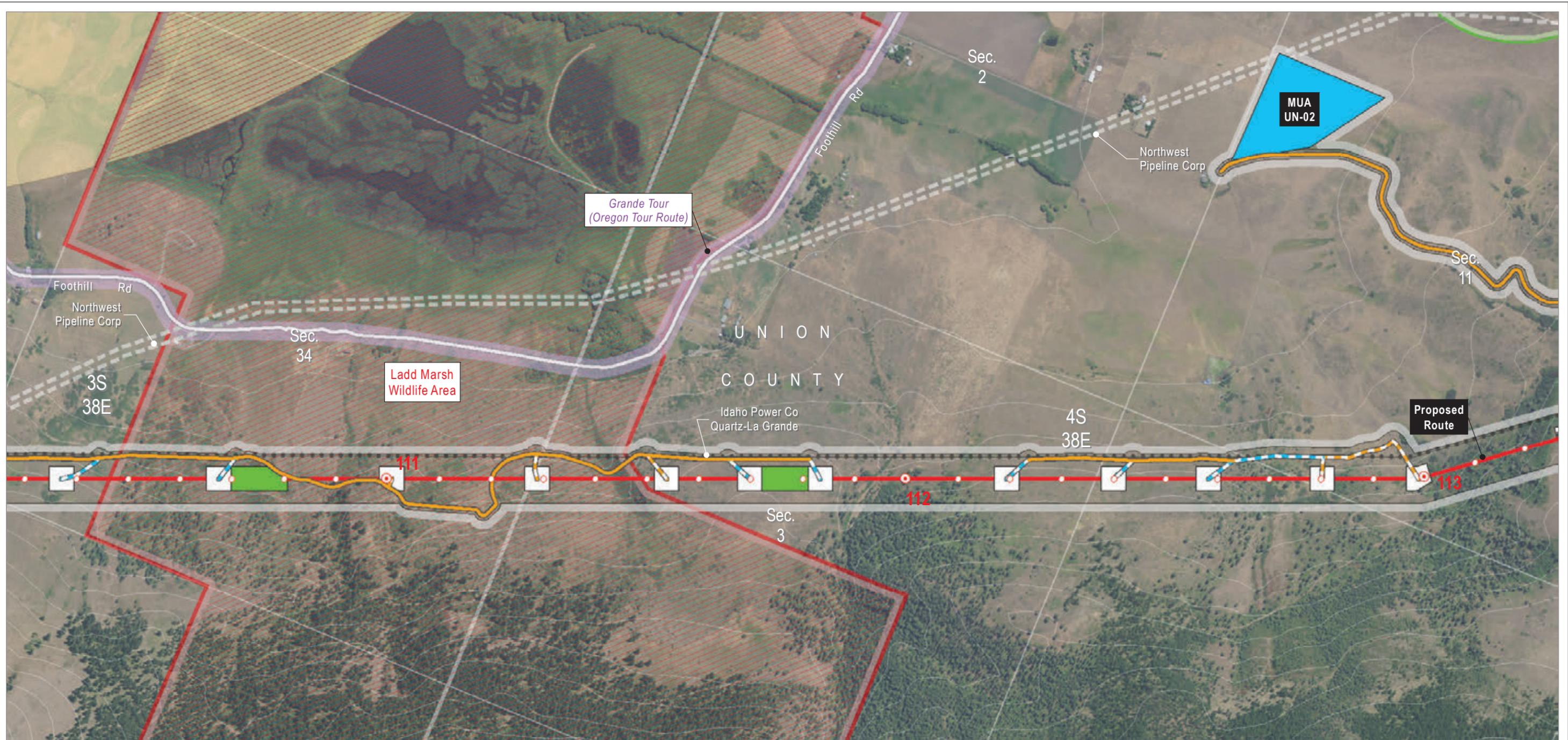
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 53



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Pipeline Road | <p>Scenic Byway (Type)</p> <ul style="list-style-type: none"> Scenic Byway (Type) <p>Airport Controlled Airspace (Height Restrictions Apply)</p> <ul style="list-style-type: none"> Airport Controlled Airspace (Height Restrictions Apply) <p>Oregon NHT Intact Segment (1/4-mile buffer)</p> <ul style="list-style-type: none"> Oregon NHT Intact Segment (1/4-mile buffer) <p>Protected Area (EFSC)</p> <ul style="list-style-type: none"> Protected Area (EFSC) <p>Land Status</p> <ul style="list-style-type: none"> Private State or Local Parks and Recreation or Wildlife |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

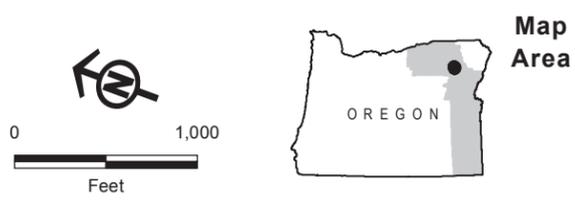


**Attachment C-2
Proposed Route Location Maps**

Union County

Map 54

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Alternative
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Oregon National Historic Trail (NHT)
- Land Status**
- Private
- Other Features**
- Pipeline
 - Interstate
 - Road
 - Stream
 - Oregon NHT Intact Segment (1/4-mile buffer)

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 55

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Alternative
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Land Status**
- Private
- Other Features**
- Existing Transmission Lines
 - Oregon National Historic Trail (NHT)
 - Pipeline
 - Interstate
 - Stream
 - Oregon NHT Intact Segment (1/4-mile buffer)

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

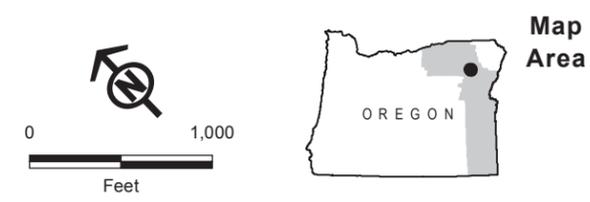
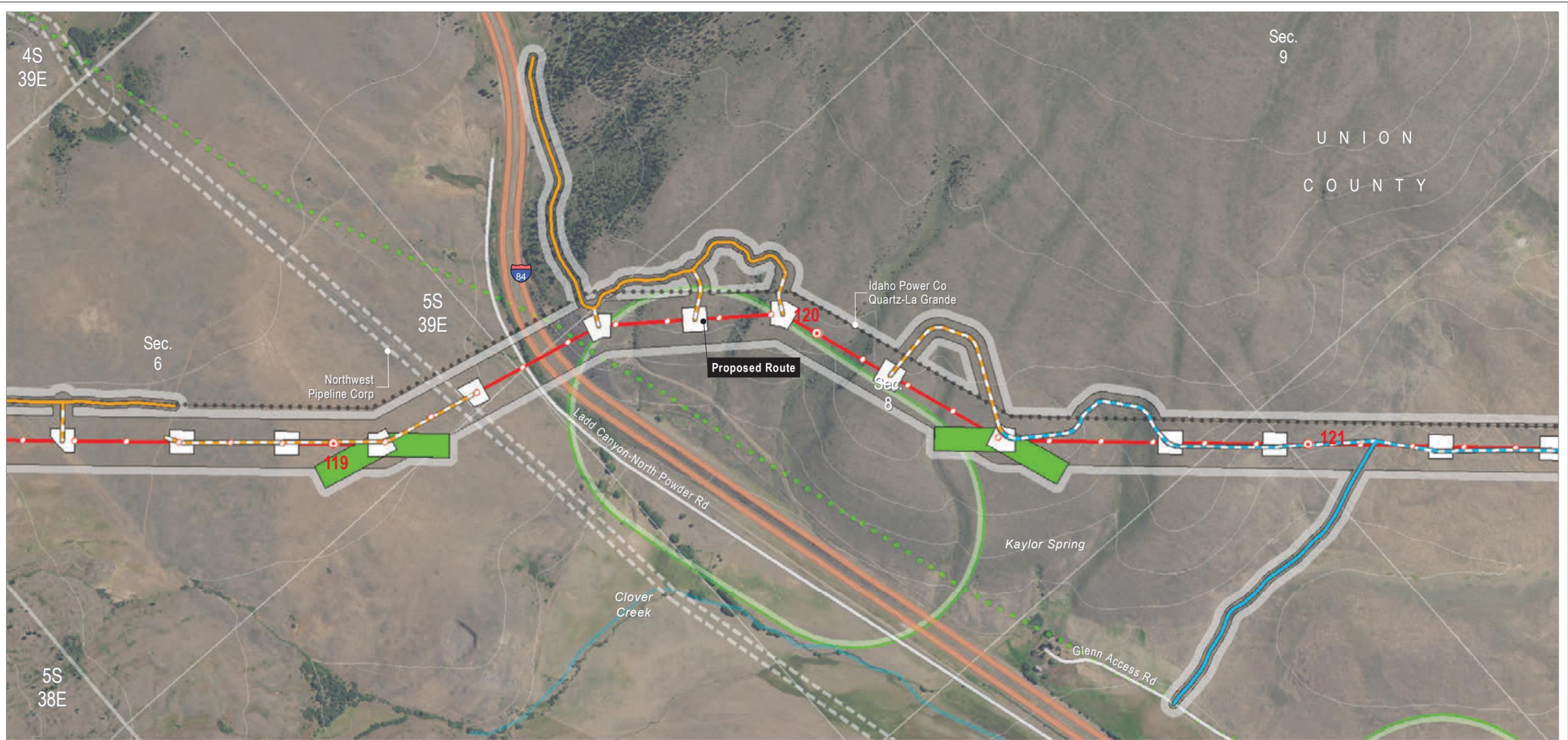


**Attachment C-2
Proposed Route Location Maps**

Union County

Map 56

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Bladed</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines ● Oregon National Historic Trail (NHT) Pipeline | <p>Interstate</p> <ul style="list-style-type: none"> <p>Road</p> <ul style="list-style-type: none"> <p>Stream</p> <ul style="list-style-type: none"> ~ Stream <p>Oregon NHT Intact Segment (1/4-mile buffer)</p> <ul style="list-style-type: none"> <p>Land Status</p> <ul style="list-style-type: none"> Private |
|---|---|--|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 57

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- | | | |
|--|--|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Bladed</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Road Stream | <p>Oregon NHT Intact Segment (1/4-mile buffer)</p> <ul style="list-style-type: none"> <p>Land Status</p> <ul style="list-style-type: none"> Private |
|--|--|---|

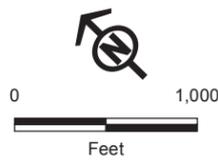
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 58



Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines
- Road
- Stream

Land Status

- Private

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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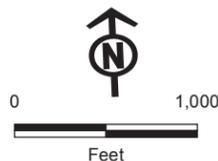
Boardman to Hemingway Transmission Line Project
 Application for Site Certificate



**Attachment C-2
 Proposed Route Location Maps**

Union County

Map 59



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Multi-Use Area
 - Pulling and Tensioning
 - Structure Work Area

- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Oregon National Historic Trail (NHT)

- Land Status**
- Interstate
 - Road
 - Stream
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

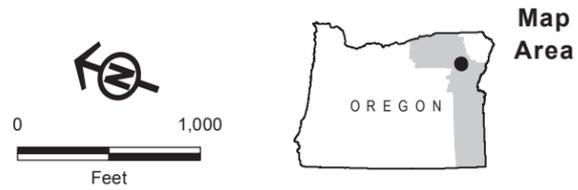


**Attachment C-2
Proposed Route Location Maps**

Union County

Map 60

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Communication Station
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed
- New Road, Primitive
- Distribution Line to Communication Station (IPC Service Territory Only)

Important Siting Constraints and Other Features

- 100-foot Contours

Existing Transmission Lines

- Road
- Railroad
- Stream

Land Status

- Private

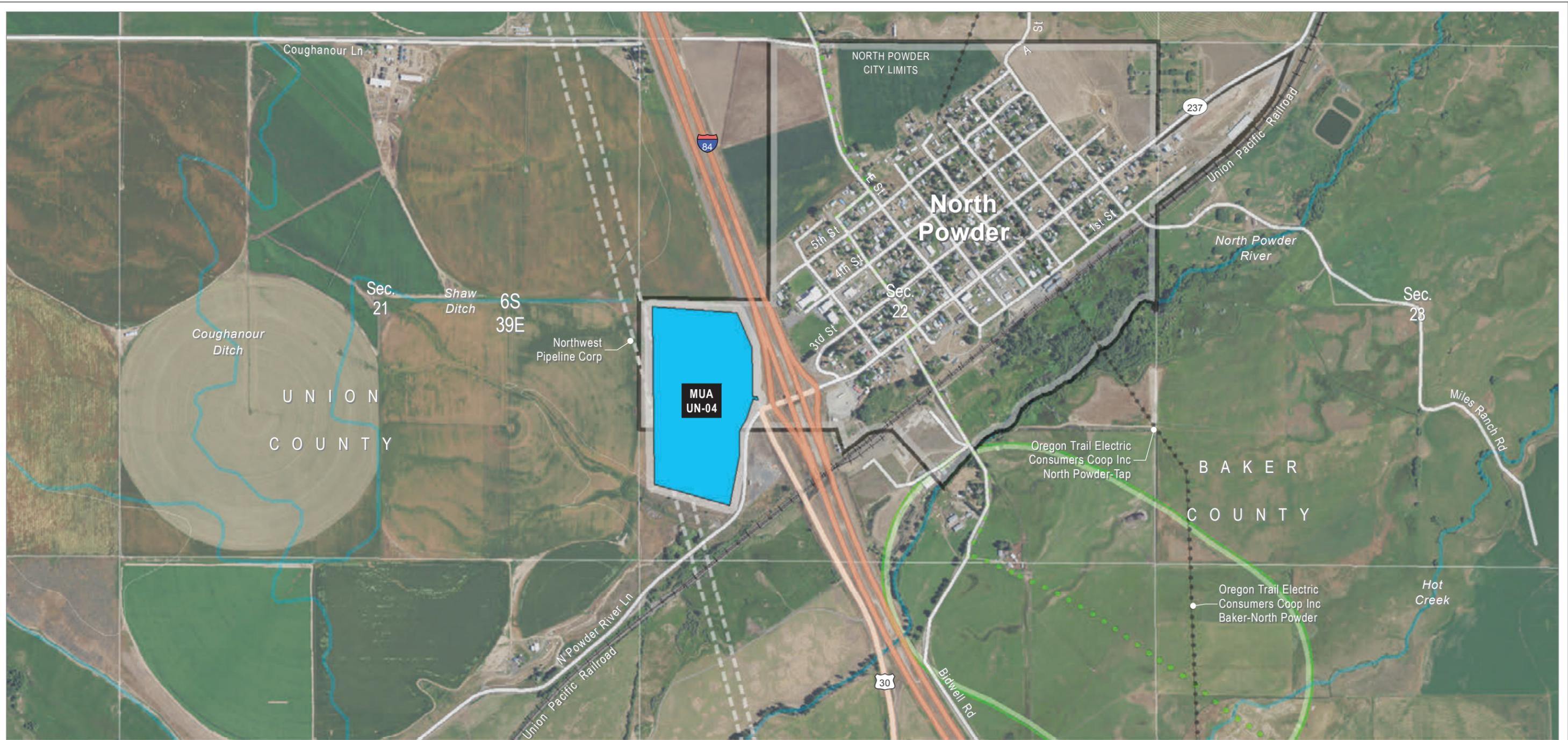
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 61



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Work Areas
 - Multi-Use Area
- Important Siting Constraints and Other Features**
- ~ 100-foot Contours
 - Existing Transmission Lines
 - Oregon National Historic Trail (NHT)
 - Pipeline
- Land Status**
- Private
- Other Features**
- Interstate
 - Highway
 - Road
 - Railroad
 - Stream
 - City Limits
 - Oregon NHT Intact Segment (1/4-mile buffer)

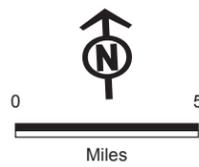
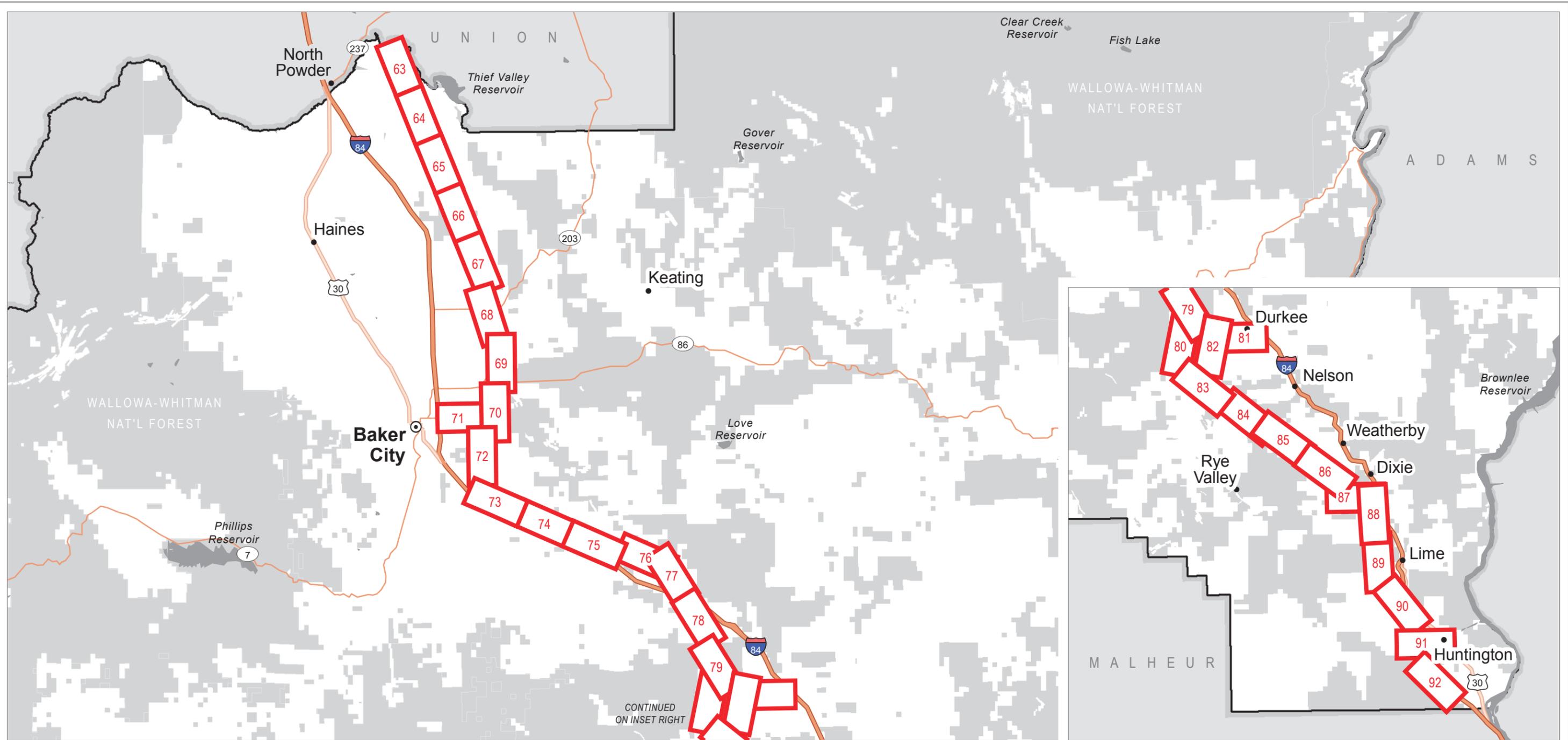
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Union County

Map 62



Map Index
 [Red Box] Location Map (Map #)

Source(s): BLM, IPC, Esri

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Boardman to Hemingway Transmission Line Project
 Application for Site Certificate



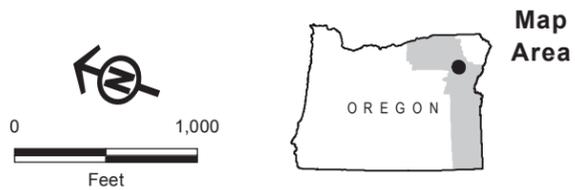
**Attachment C-2
 Proposed Route Location Maps**

Baker County

Map Index



6S
39E



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines
- Railroad
- Stream
- Land Status**
- Bureau of Land Management

Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 63



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Other Road
 - Stream
 - Sage-grouse Core Area
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 64



- | | | |
|---|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Stream Sage-grouse Core Area | <p>Land Status</p> <ul style="list-style-type: none"> Private |
|---|---|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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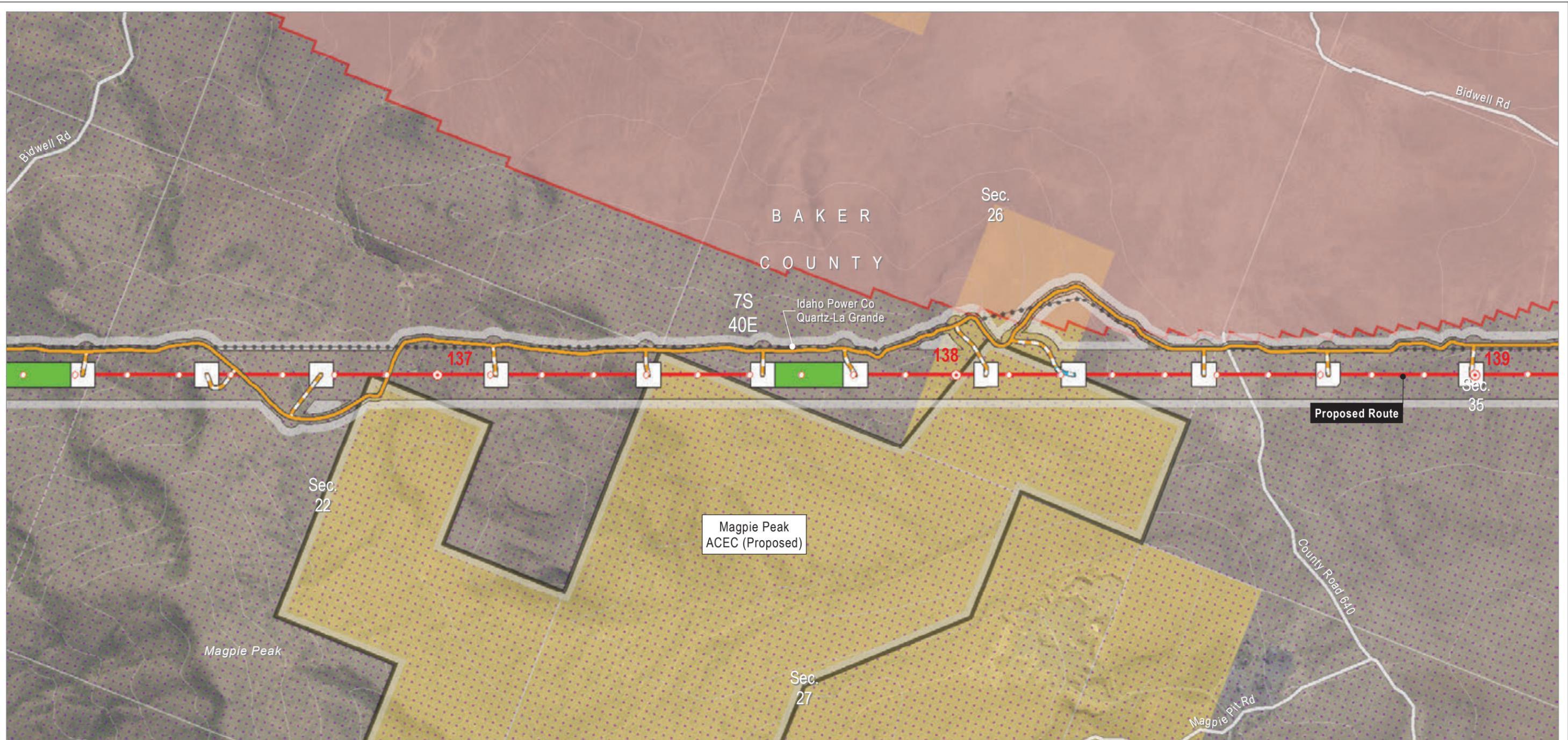
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 65



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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|--|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Magpie Peak ACEC (Proposed) Sage-grouse Core Area | <ul style="list-style-type: none"> Sage-grouse Areas of Population Richness <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
|--|---|--|

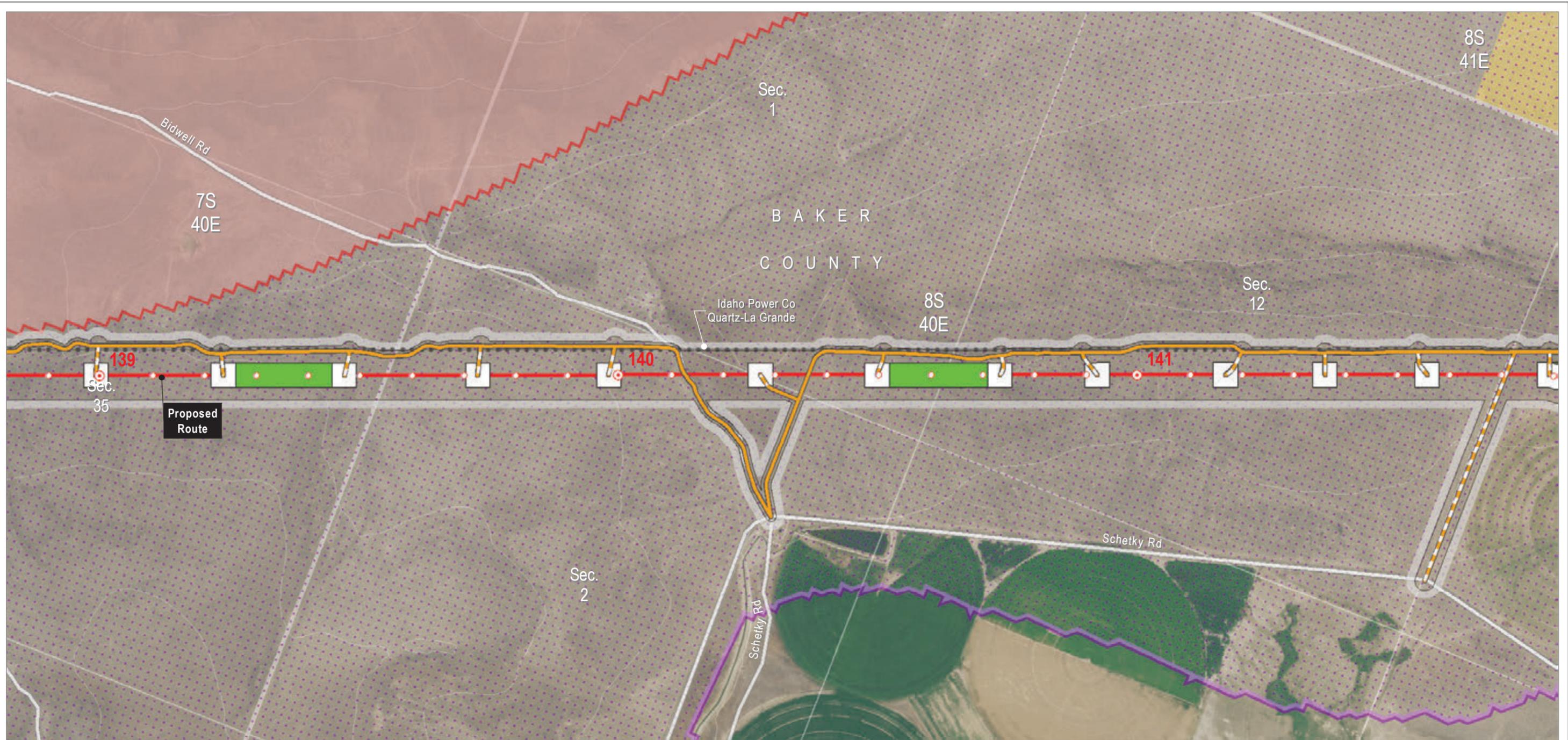
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 66



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|---|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p> New Road, Primitive</p> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Sage-grouse Core Area Sage-grouse Areas of Population Richness | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
|---|---|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 67



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Multi-Use Area
 - Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines**
- Existing Transmission Lines
 - Other Road
 - Stream
- Land Status**
- Airport Controlled Airspace (Height Restrictions Apply)
 - Oregon NHT Intact Segment (1/4-mile buffer)
 - Sage-grouse Core Area
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

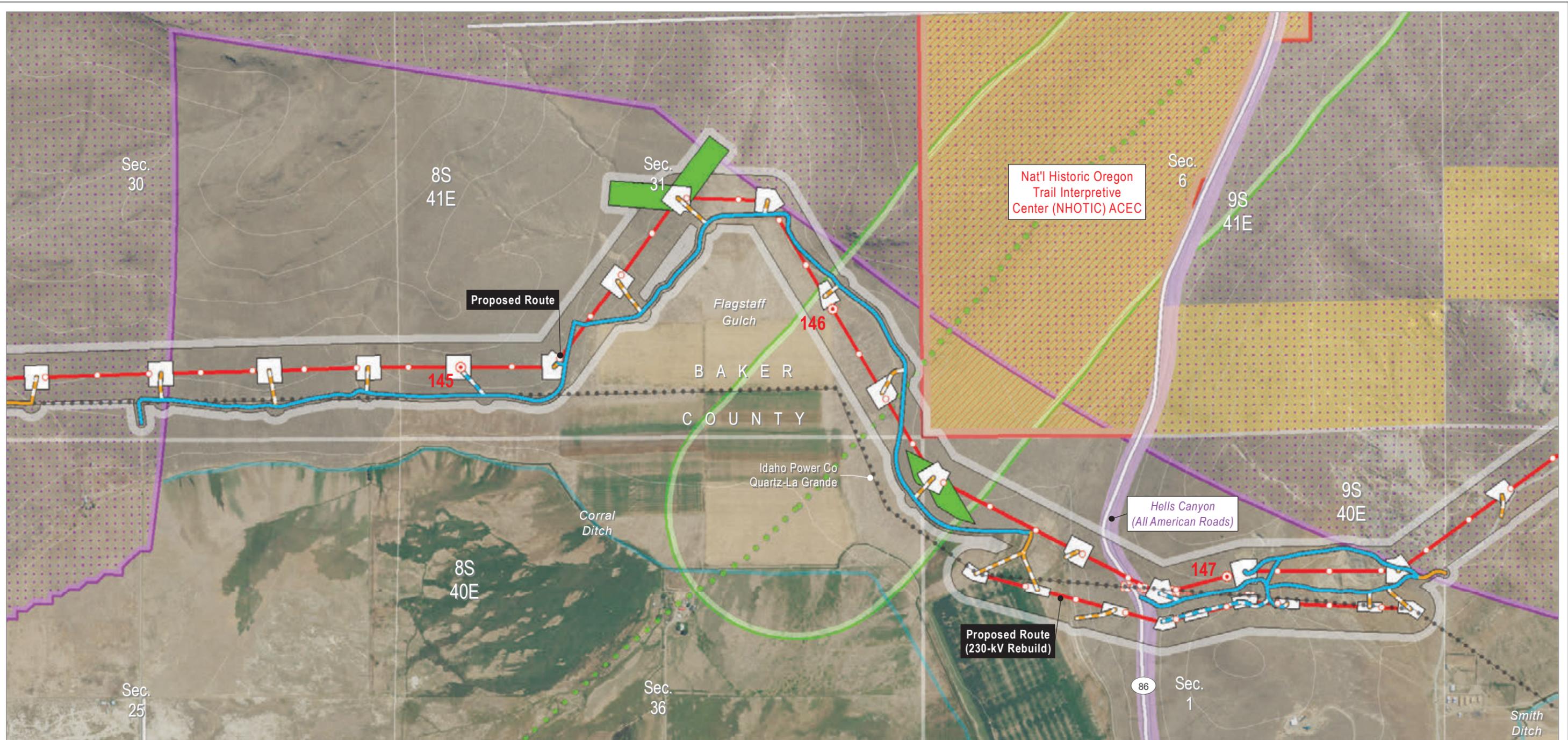


**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 68

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Structure Work Area (Removal Only)

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours

Existing Transmission Lines

- Existing Transmission Lines
- Oregon National Historic Trail (NHT)
- Other Road
- Scenic Byway (Type)
- Stream
- Oregon NHT Intact Segment (1/4-mile buffer)
- Protected Area (EFSC)
- Sage-grouse Core Area

Land Status

- Bureau of Land Management
- Private

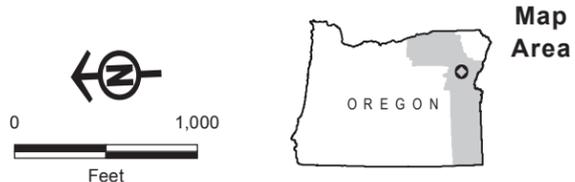
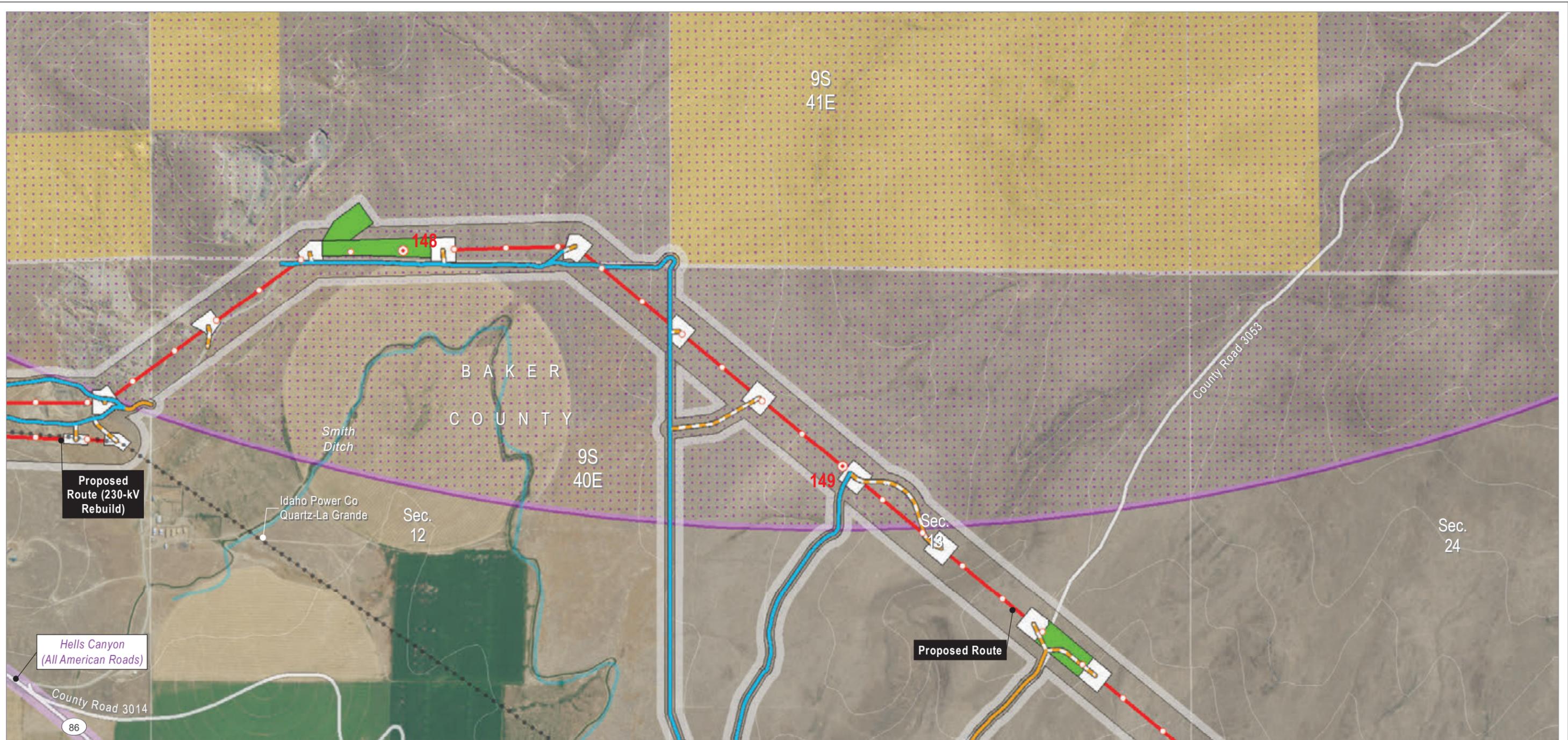
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 69



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|---|--|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Scenic Byway (Type) Stream Sage-grouse Core Area | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
|---|--|---|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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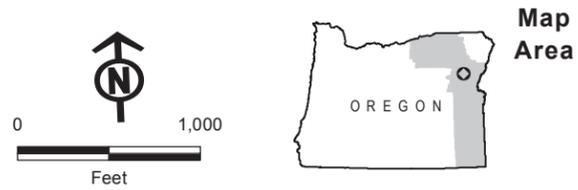
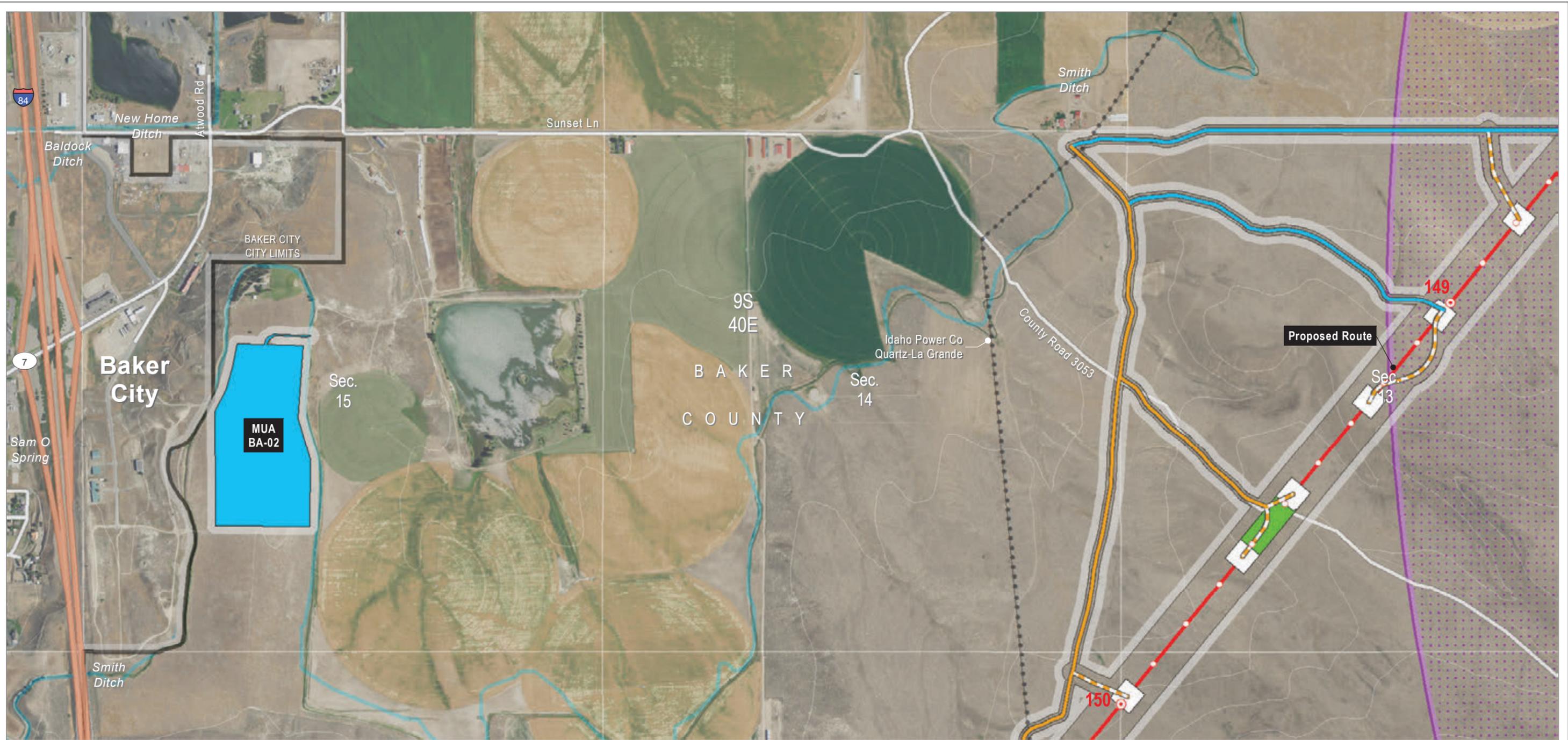
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 70



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines

Interstate

- Interstate
- Other Road
- Stream
- City Limits
- Sage-grouse Core Area
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 71



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|--|--|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Bladed</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Sage-grouse Core Area | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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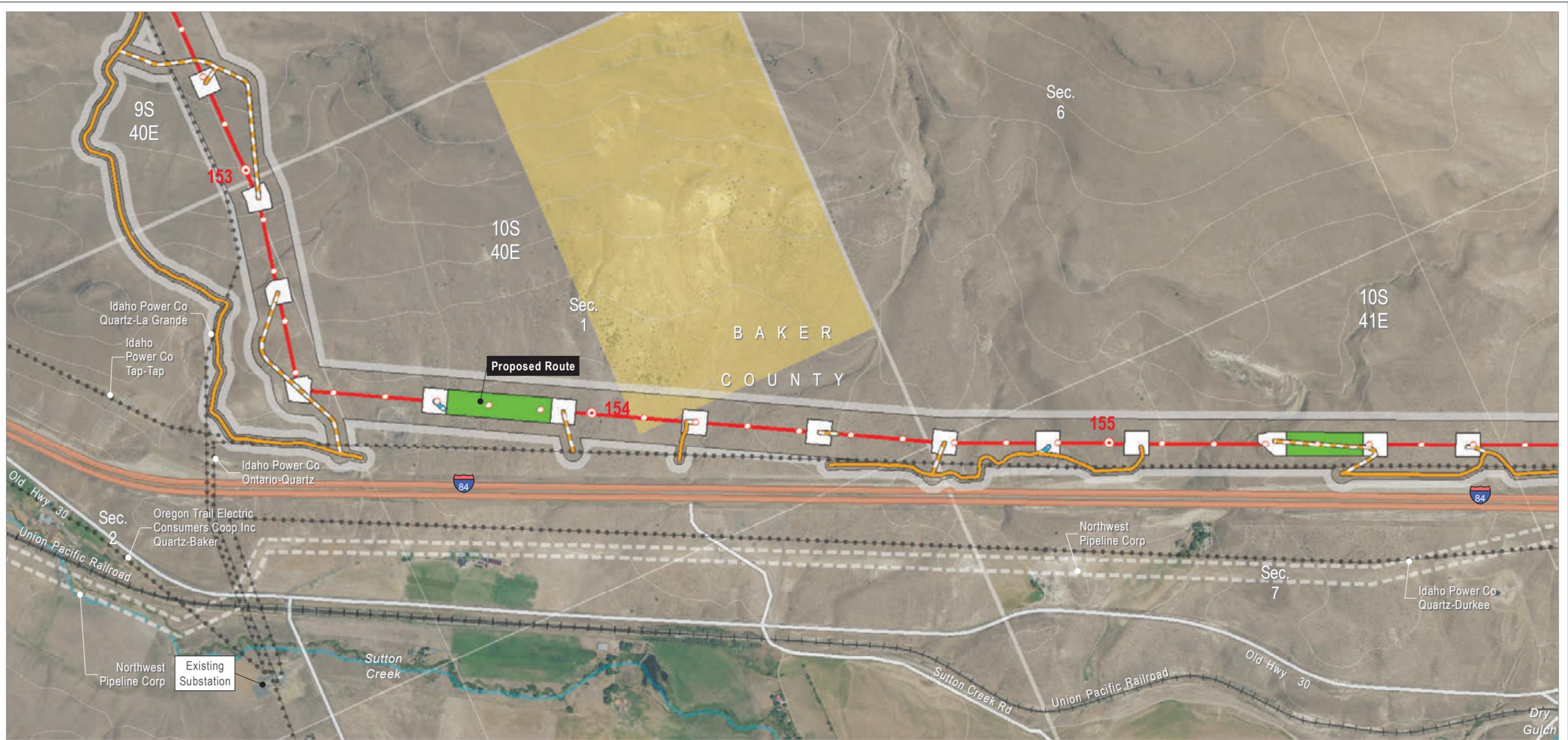
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 72



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Land Status**
- Bureau of Land Management
 - Private
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Pipeline
 - Interstate
 - Other Road
 - Railroad
 - Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

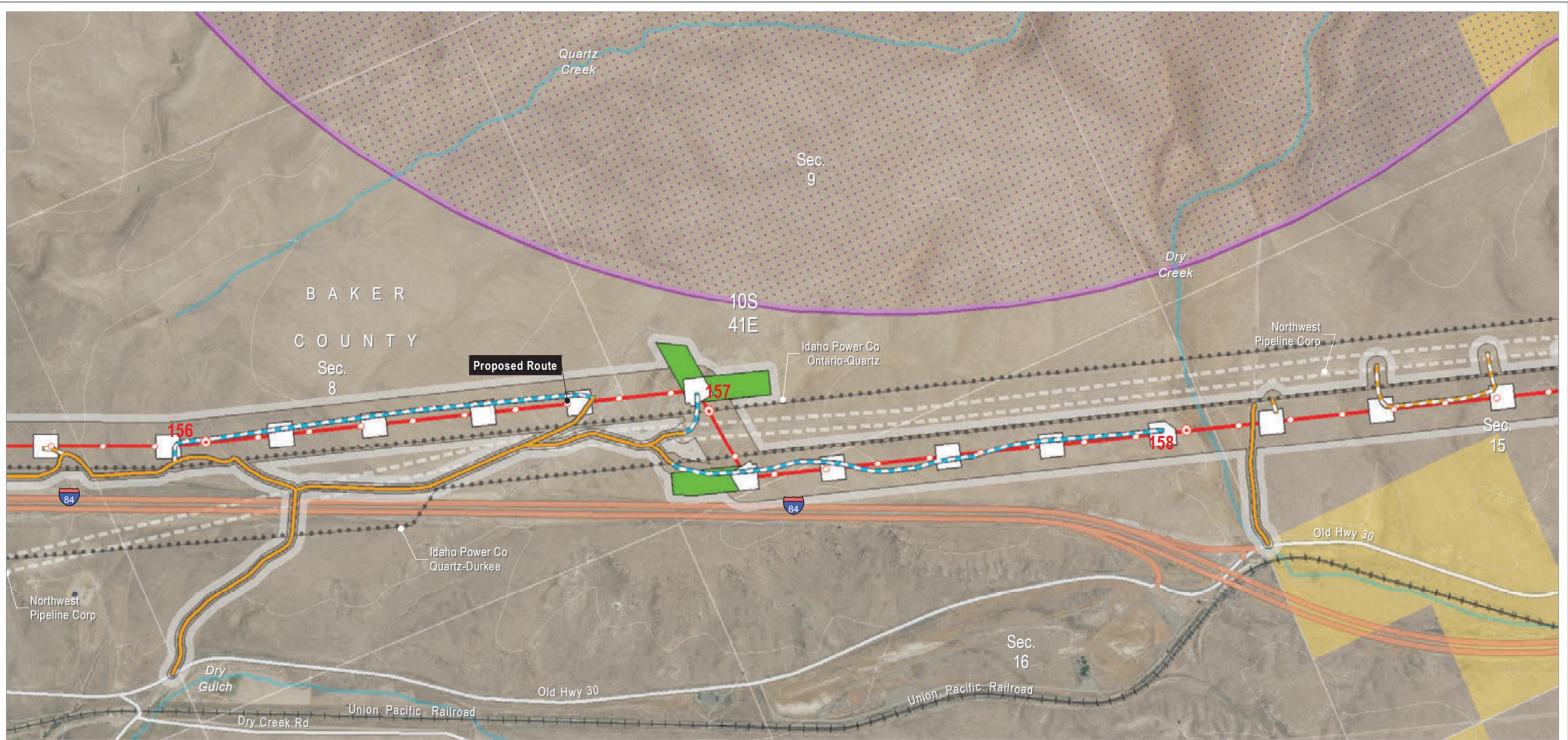


**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 73

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Pipeline Interstate Other Road Railroad Stream | <ul style="list-style-type: none"> Sage-grouse Core Area <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

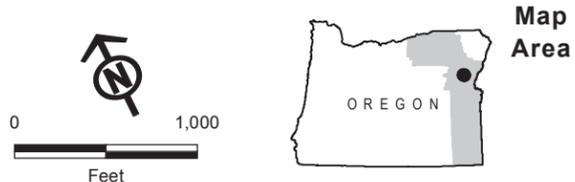


**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 74

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Communication Station
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Distribution Line to Communication Station (IPC Service Territory Only)

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines
- Pipeline
- Interstate
- Other Road
- Railroad
- Stream
- Sage-grouse Core Area

Land Status

- Bureau of Land Management
- Private

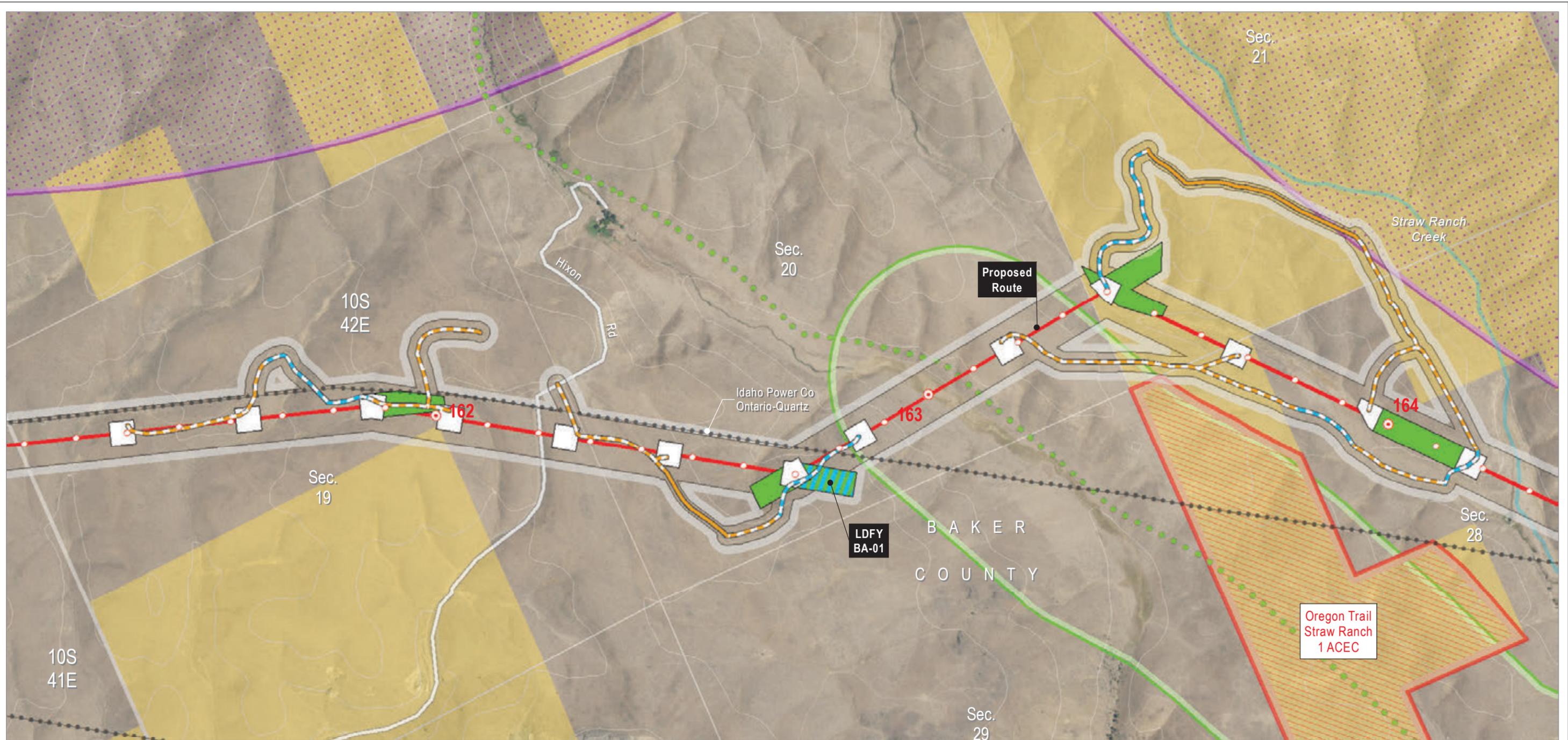
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 75



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

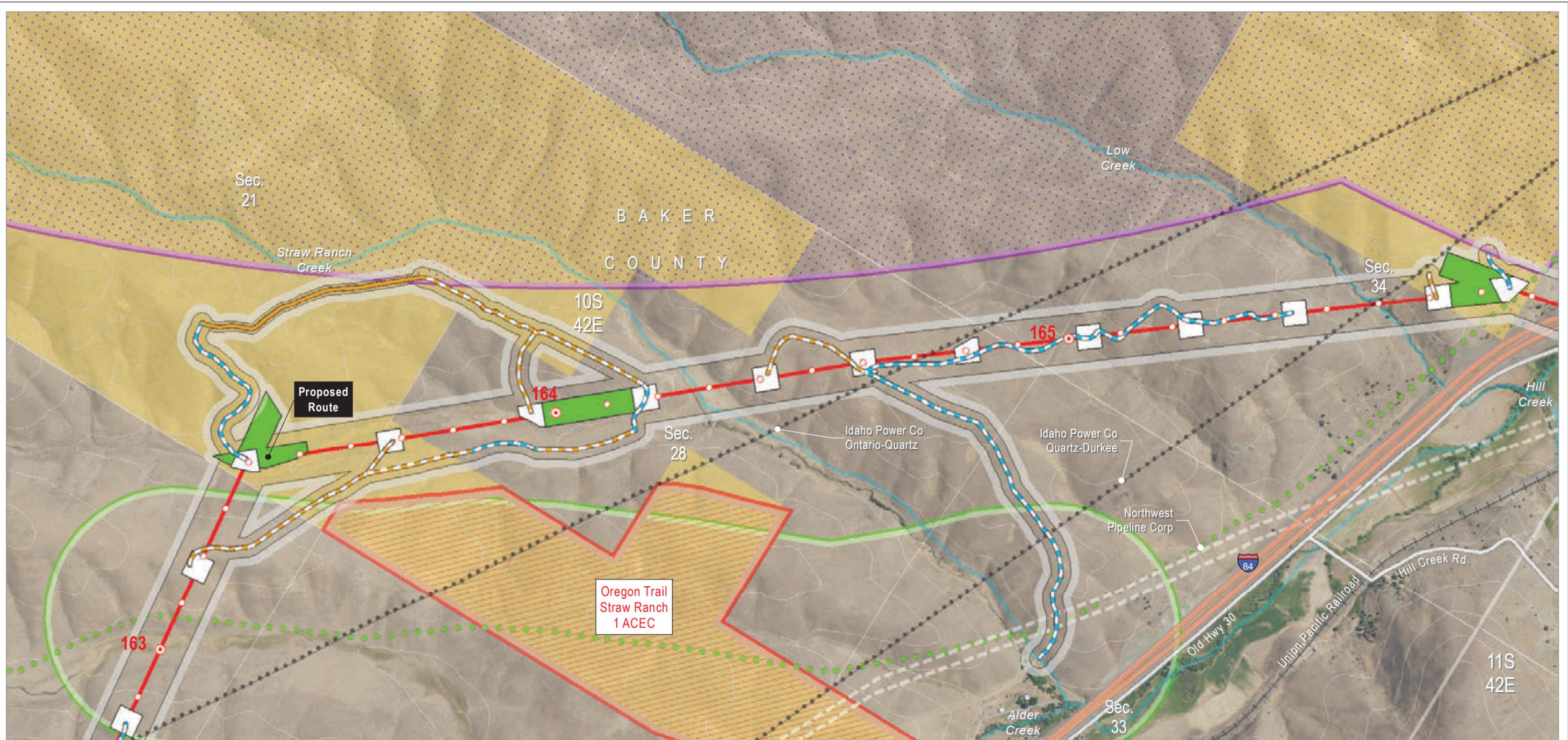
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Light-Duty Fly Yard Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) | <p>Other Road</p> <ul style="list-style-type: none"> Stream Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) Sage-grouse Core Area <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
|---|--|---|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



Attachment C-2
Proposed Route Location Maps
Baker County
Map 76



<p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements 	<ul style="list-style-type: none"> New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) Pipeline Interstate Other Road 	<ul style="list-style-type: none"> Railroad Stream Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) Sage-grouse Core Area Land Status Bureau of Land Management Private
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 77

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
| <p>Access</p> <ul style="list-style-type: none"> Pipeline Interstate Other Road Railroad Stream West-wide Energy Corridor (WVEC) Sage-grouse Core Area | | |

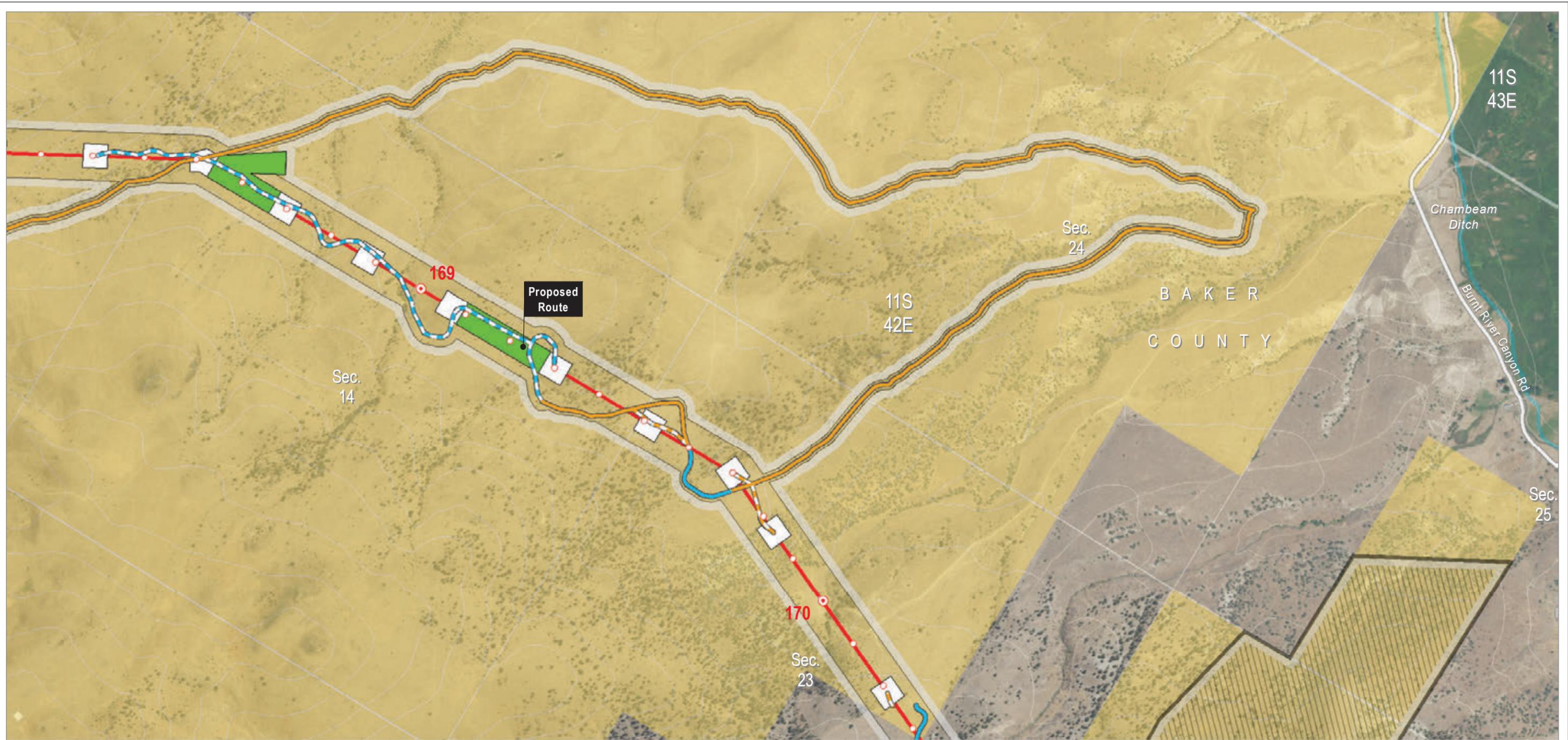
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 78



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road Stream VRM 2 | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
|--|--|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



Attachment C-2
Proposed Route Location Maps
Baker County
Map 79



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements
- Important Siting Constraints and Other Features**
- New Road, Bladed
 - New Road, Primitive
 - 100-foot Contours
 - Other Road
 - Stream
 - VRM 2
- Land Status**
- Bureau of Land Management
 - Private

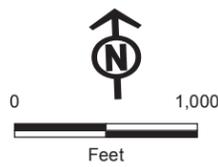
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 80



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Work Areas**
- Multi-Use Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines

- Oregon National Historic Trail (NHT)
- Pipeline
- Interstate
- Other Road
- Railroad
- Stream
- Sage-grouse Core Area

Land Status

- Bureau of Land Management
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 81



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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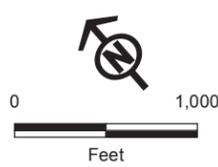
- Project Features**
- Site Boundary
 - Work Areas
 - Multi-Use Area
 - Access
 - Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
 - VRM 2
- Land Status**
- Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
 - VRM 2

- Land Status**
- Bureau of Land Management
 - Private

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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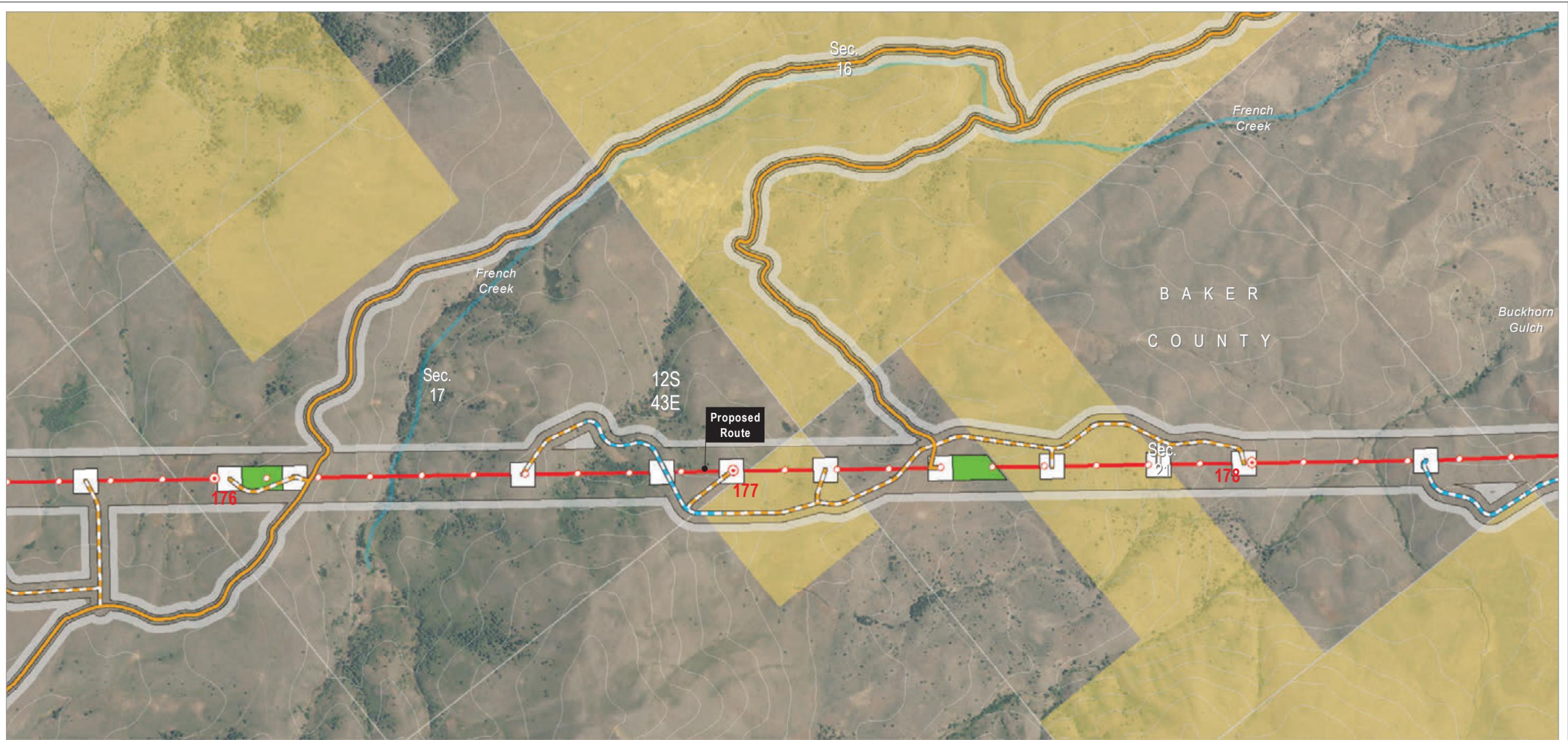
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 83



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
- Important Siting Constraints and Other Features**
- New Road, Bladed
 - New Road, Primitive
 - 100-foot Contours
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Communication Station
 - Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
 - Distribution Line to Communication Station (IPC Service Territory Only)
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



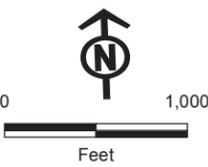
**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 86



Oregon Trail
Powell
Creek ACEC



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines ● Oregon National Historic Trail (NHT) Pipeline | <ul style="list-style-type: none"> Interstate Other Road Railroad ~ Stream West-wide Energy Corridor (WWEC) Protected Area (EFSC) <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

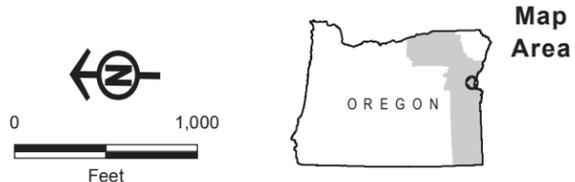
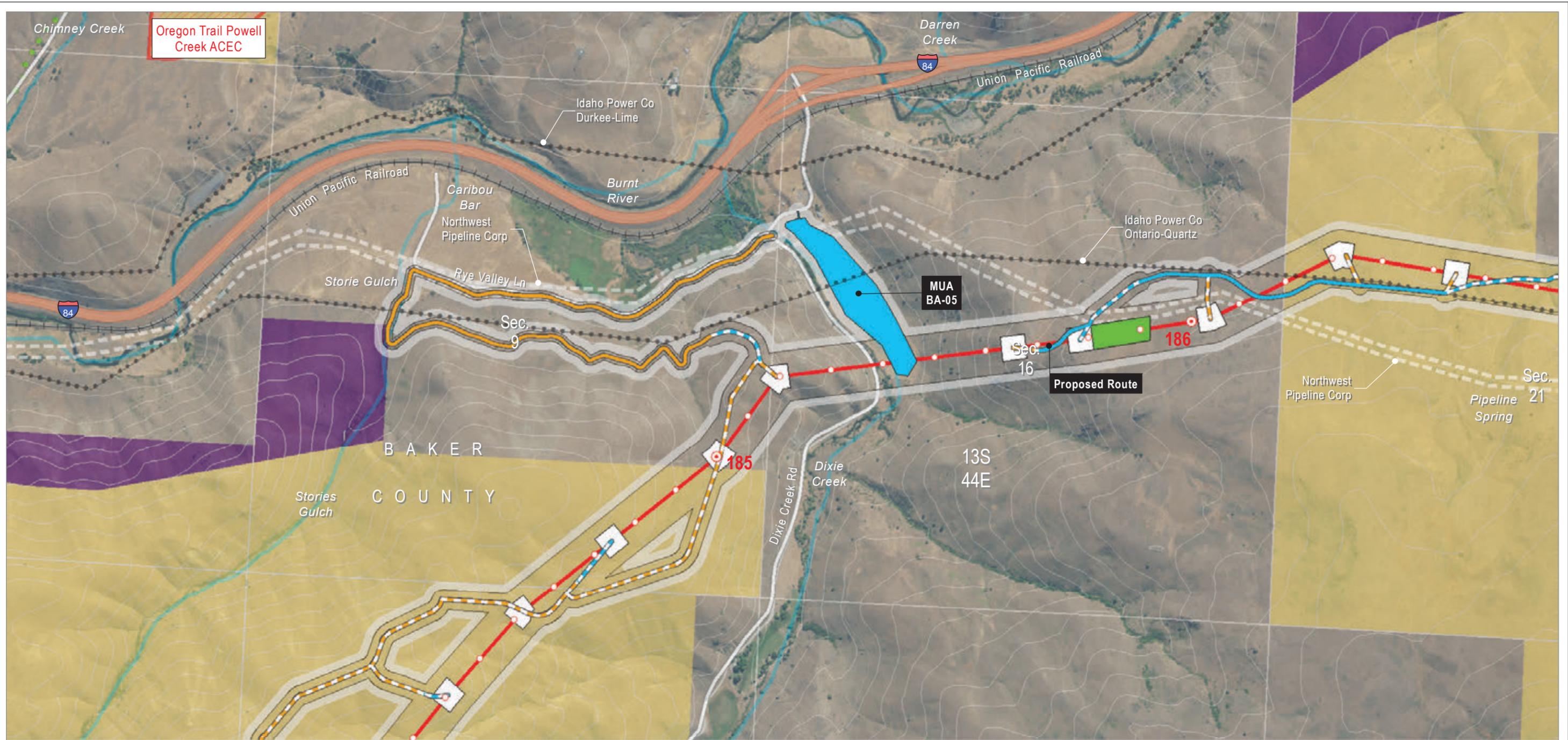


**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 87

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours

- Existing Transmission Lines
- Oregon National Historic Trail (NHT)
- Pipeline
- Interstate
- Other Road
- Railroad
- Stream
- West-wide Energy Corridor (WWEC)
- Protected Area (EFSC)

Land Status

- Bureau of Land Management
- Private

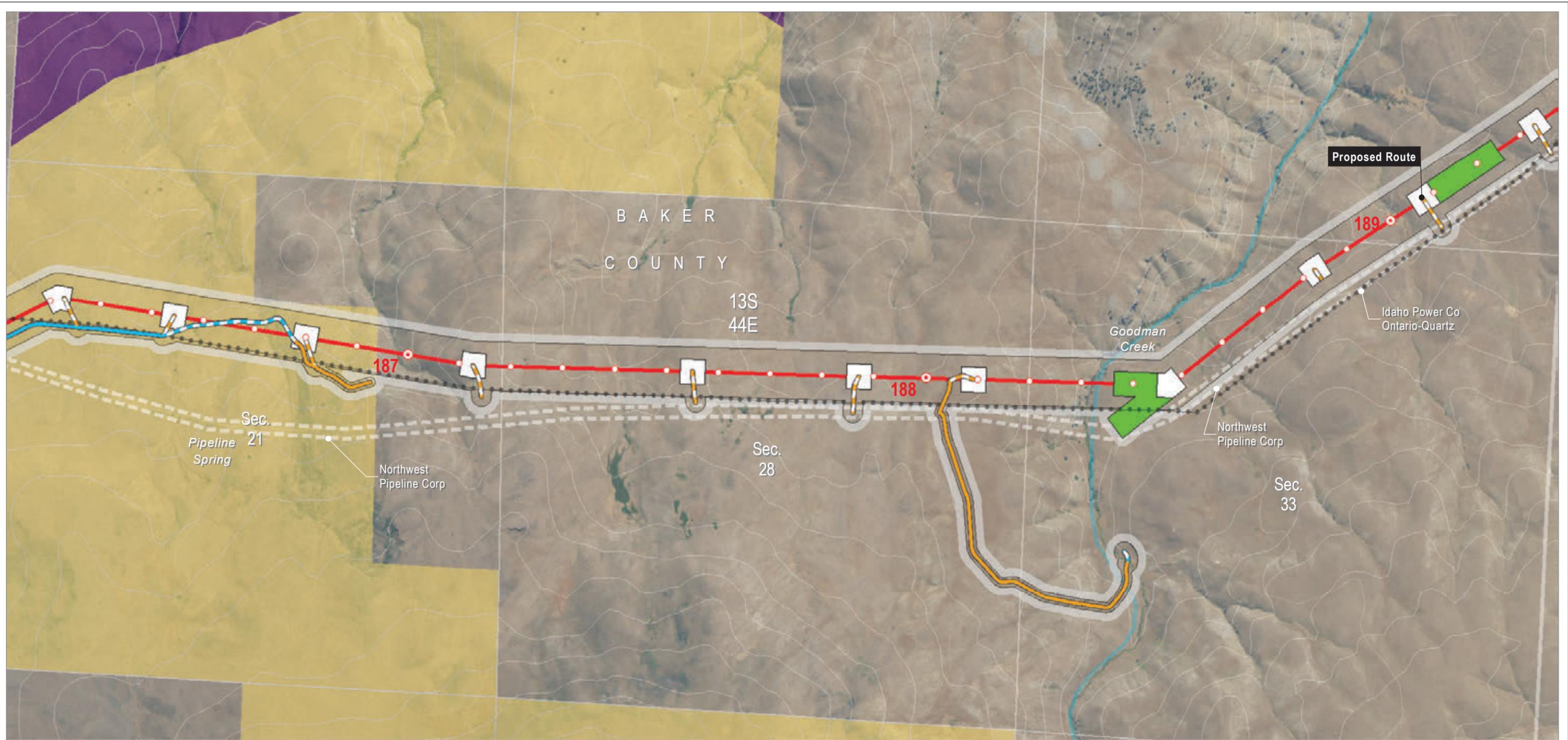
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 88



- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
 - 100-foot Contours
 - Existing Transmission Lines
 - Pipeline
 - Stream
- Land Status**
- West-wide Energy Corridor (WVEC)
 - Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

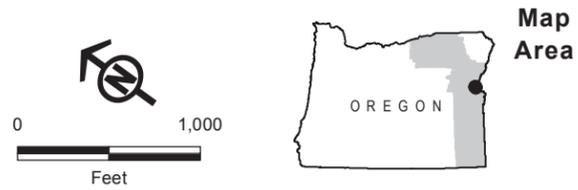


**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 89

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 71-100% Improvements

- New Road, Bladed
- New Road, Primitive

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines
- Oregon National Historic Trail (NHT)
- Pipeline
- Interstate
- Highway
- Other Road
- Railroad
- Stream
- Vale District (BLM) Utility Corridor
- Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WVEC)
- West-wide Energy Corridor (WVEC)
- Oregon NHT Intact Segment (1/4-mile buffer)

Land Status

- Bureau of Land Management
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



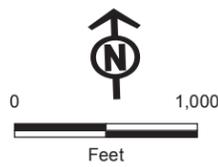
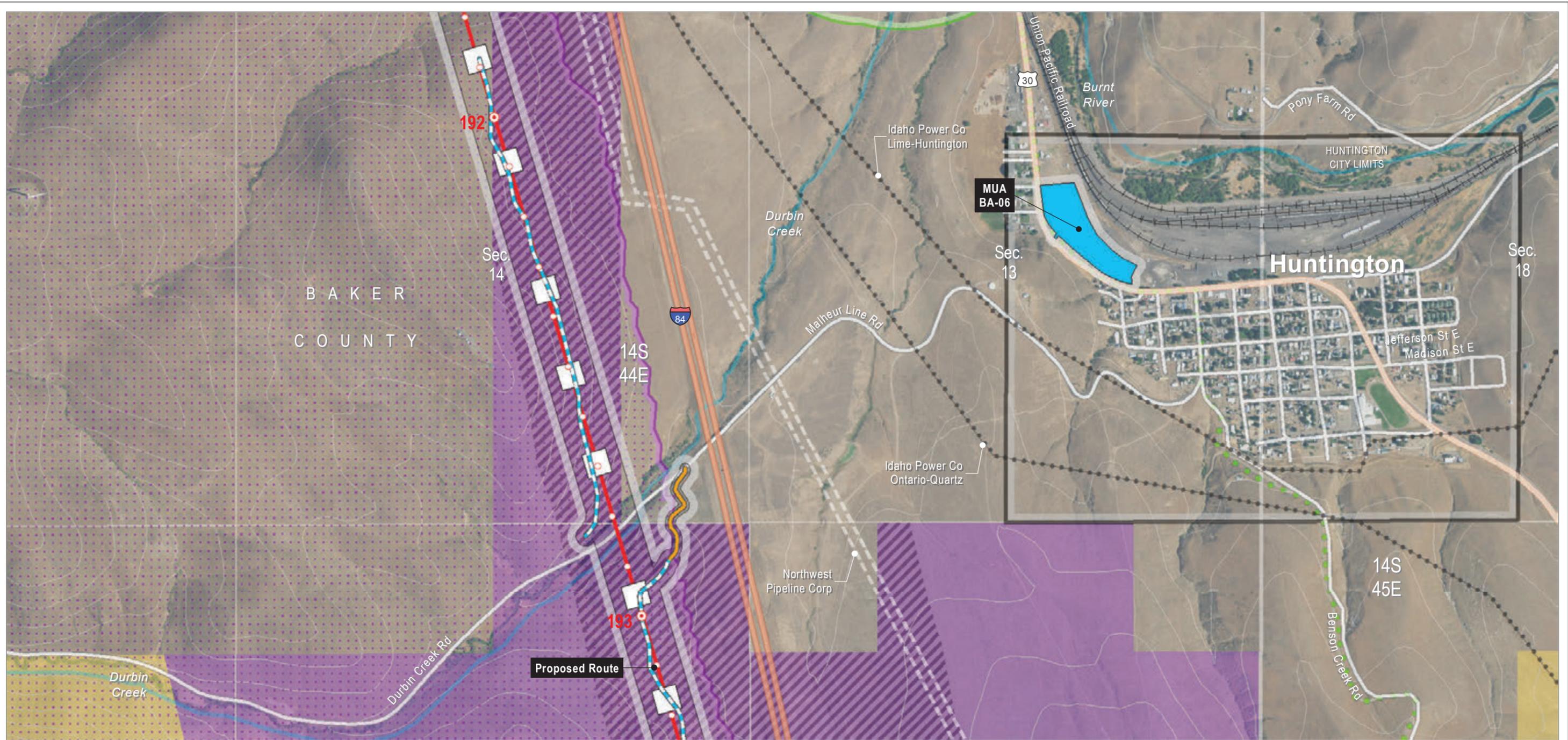
**Attachment C-2
Proposed Route Location Maps**

Baker County

Map 90

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p> New Road, Bladed</p> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) Pipeline Interstate Highway Other Road | <ul style="list-style-type: none"> Railroad Stream City Limits Vale District (BLM) Utility Corridor Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WVEC) West-wide Energy Corridor (WVEC) Oregon NHT Intact Segment (1/4-mile buffer) | <ul style="list-style-type: none"> Sage-grouse Core Area <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
|--|---|--|---|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

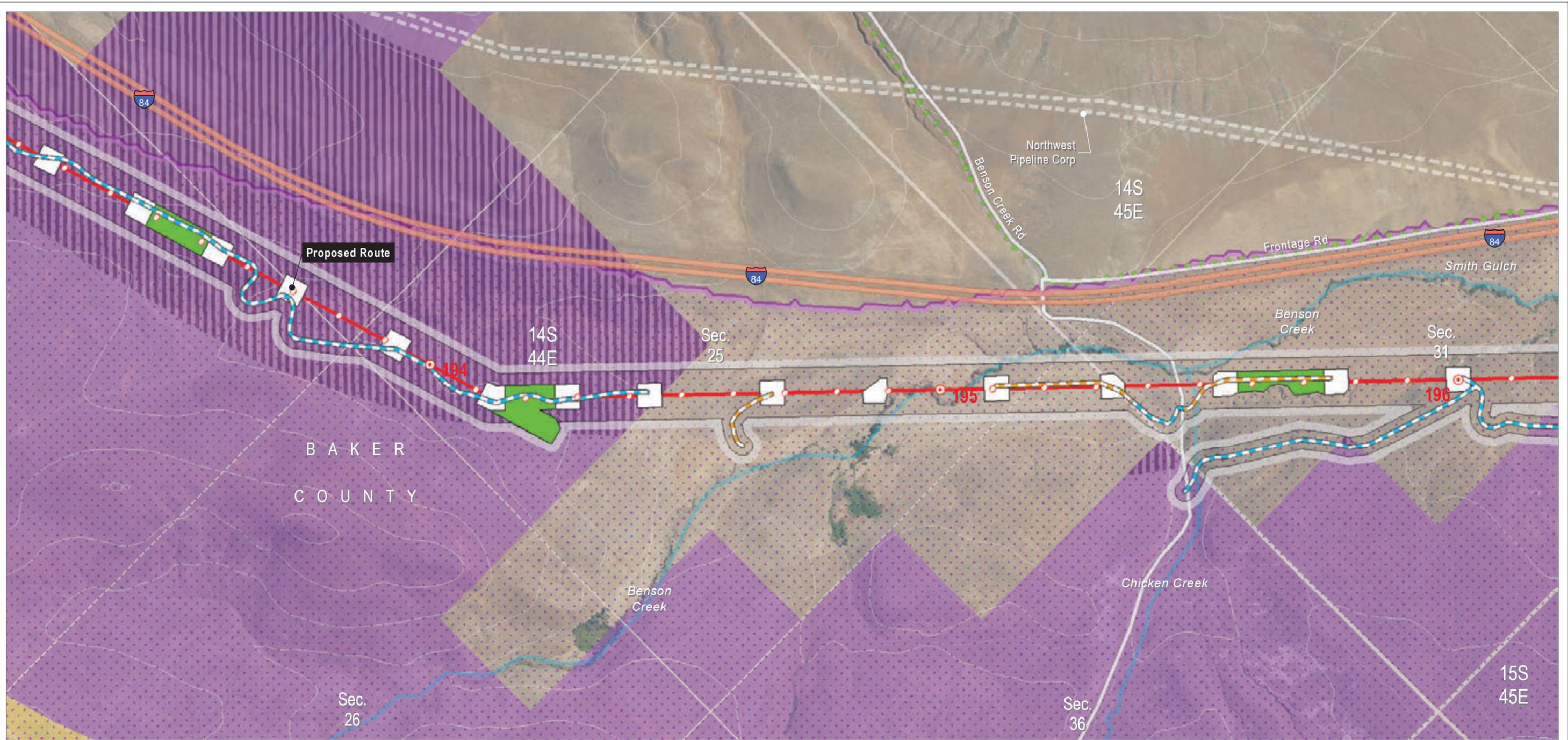
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Baker County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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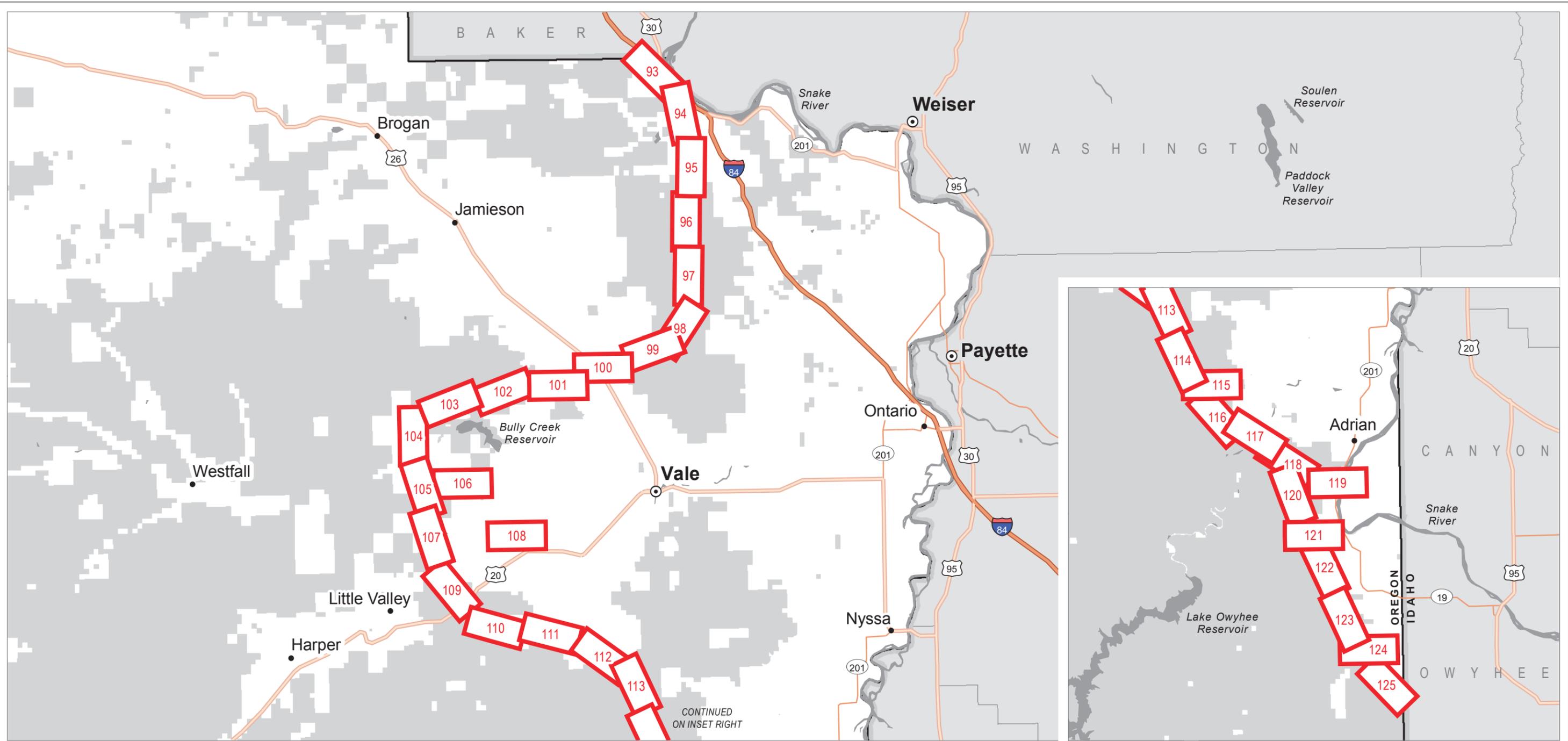
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> New Road, Bladed New Road, Primitive | <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours ● Oregon National Historic Trail (NHT) Pipeline Interstate Other Road ~ Stream Vale District (BLM) Utility Corridor | <p>Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WVEC)</p> <ul style="list-style-type: none"> West-wide Energy Corridor (WVEC) Sage-grouse Core Area <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

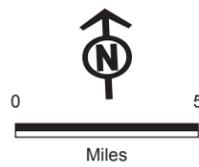


**Attachment C-2
Proposed Route Location Maps**

Baker County



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Map Index
 [Red Box] Location Map (Map #)

Source(s): BLM, IPC, Esri

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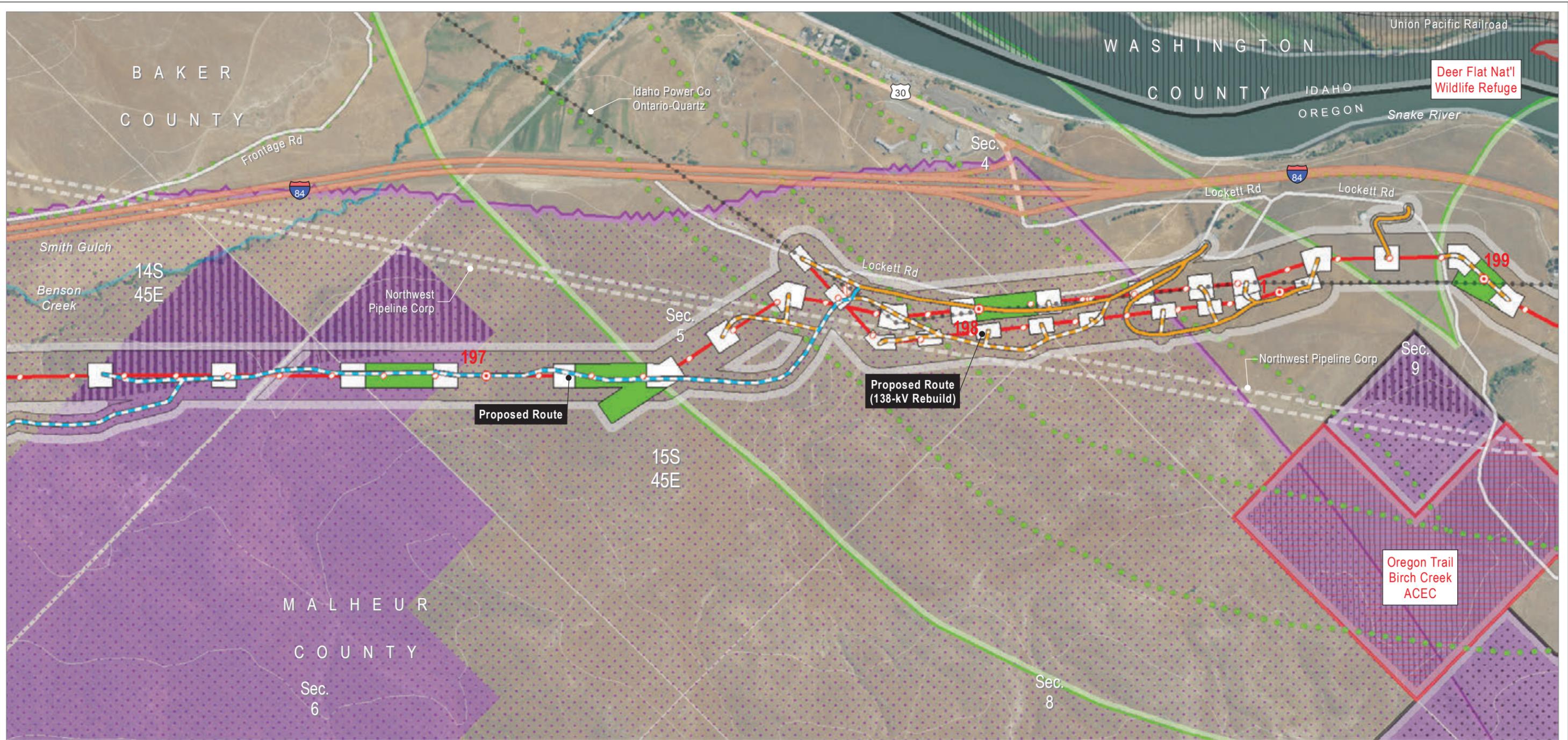
Boardman to Hemingway Transmission Line Project
 Application for Site Certificate



**Attachment C-2
 Proposed Route Location Maps**

Malheur County

Map Index



Map Area

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
 - Structure Work Area (Removal Only)

- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours

- Existing Transmission Lines
- Oregon National Historic Trail (NHT)
- Pipeline
- Interstate
- Highway
- Other Road
- Railroad
- Stream
- Vale District (BLM) Utility Corridor

- Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WWEC)
- West-wide Energy Corridor (WWEC)
- Oregon NHT Intact Segment (1/4-mile buffer)
- Protected Area (EFSC)
- Sage-grouse Core Area
- VRM 2
- VRM 3

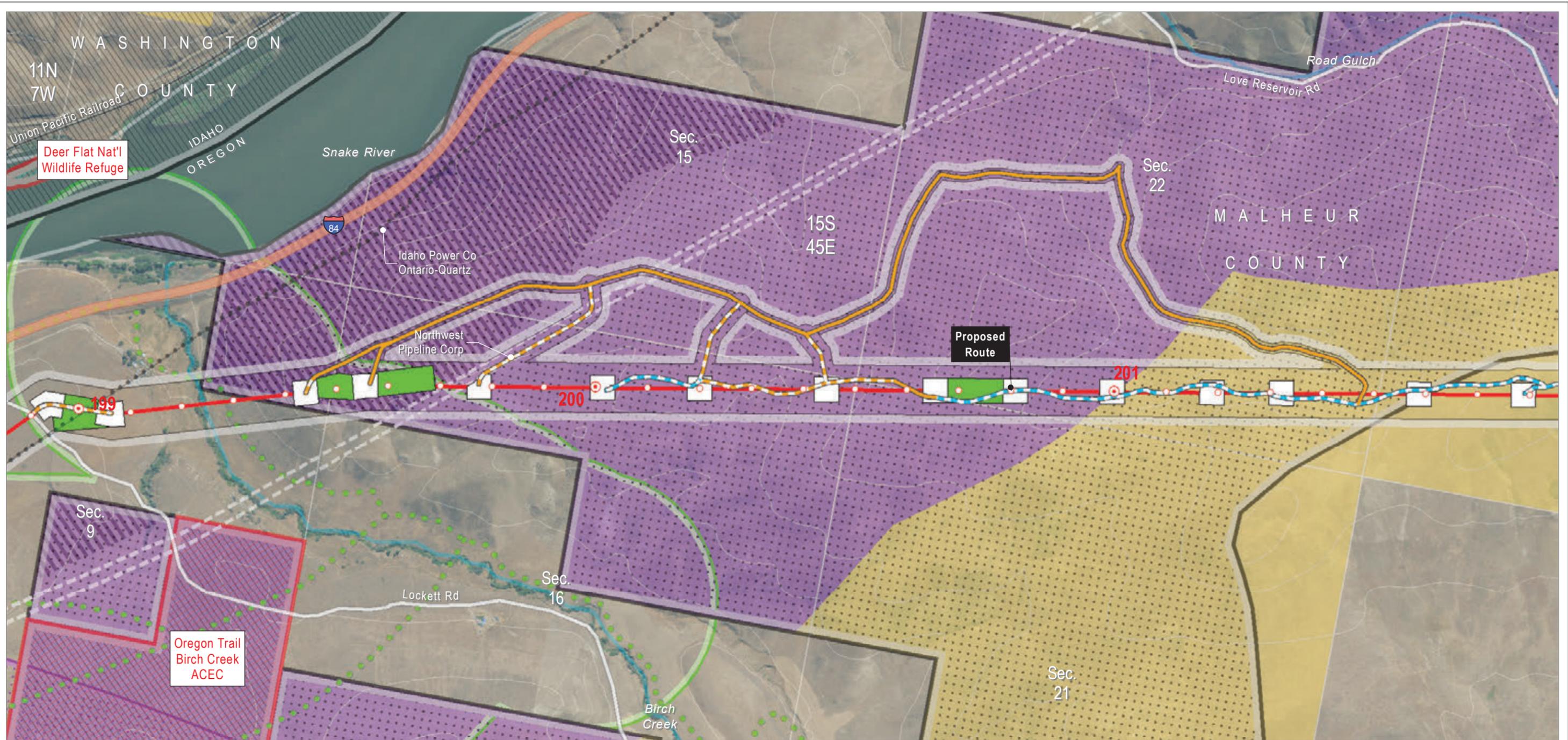
- Land Status**
- Bureau of Land Management
 - Fish and Wildlife Service
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) Pipeline Interstate Other Road | <ul style="list-style-type: none"> New Road, Bladed New Road, Primitive Railroad Stream Vale District (BLM) Utility Corridor Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WVEC) West-wide Energy Corridor (WVEC) Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) | <ul style="list-style-type: none"> Sage-grouse Core Area VRM 2 VRM 3 Land Status Bureau of Land Management Fish and Wildlife Service Private |
|---|--|---|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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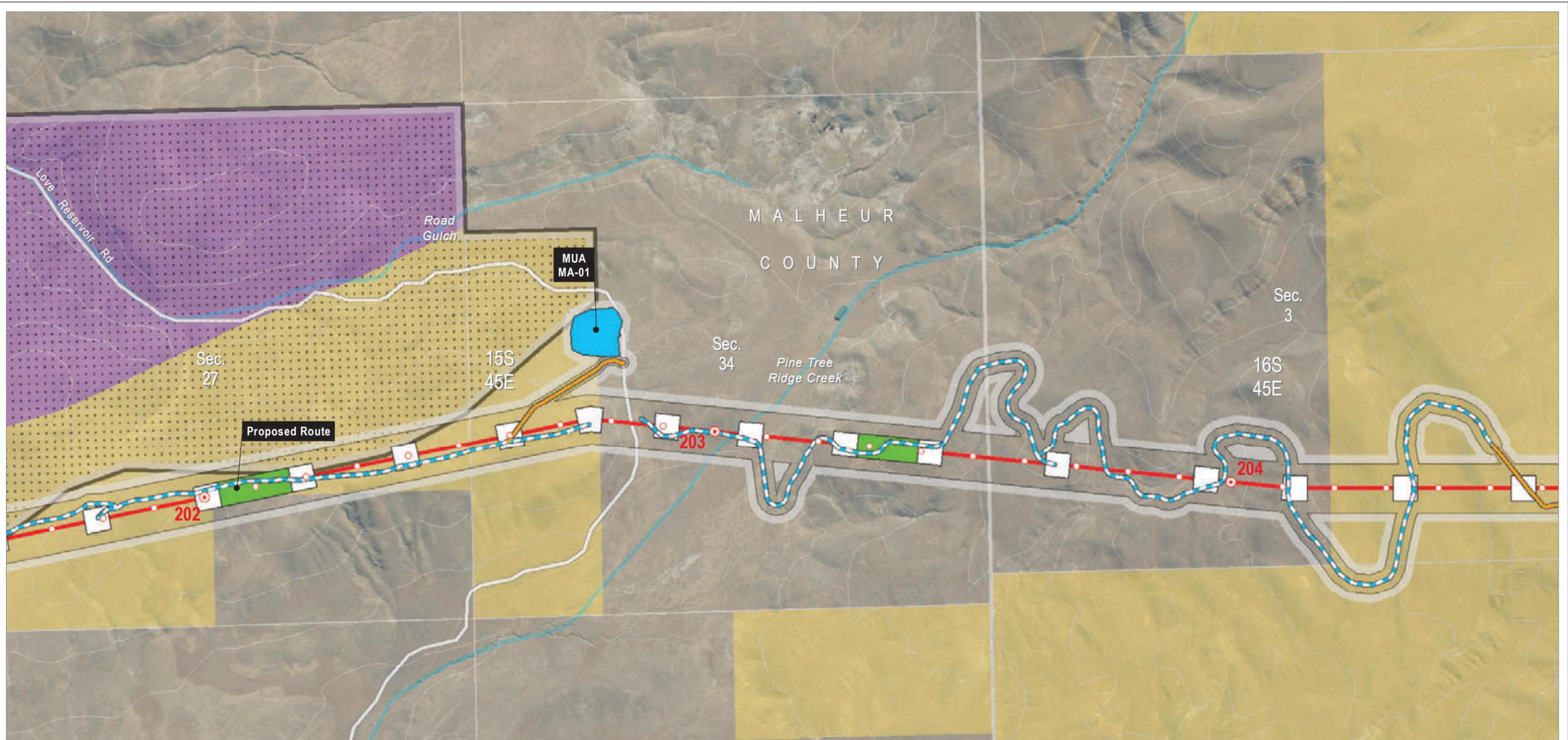
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 94



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|---|--|---|
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

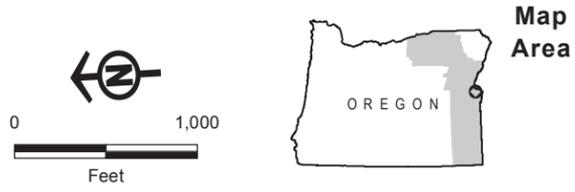
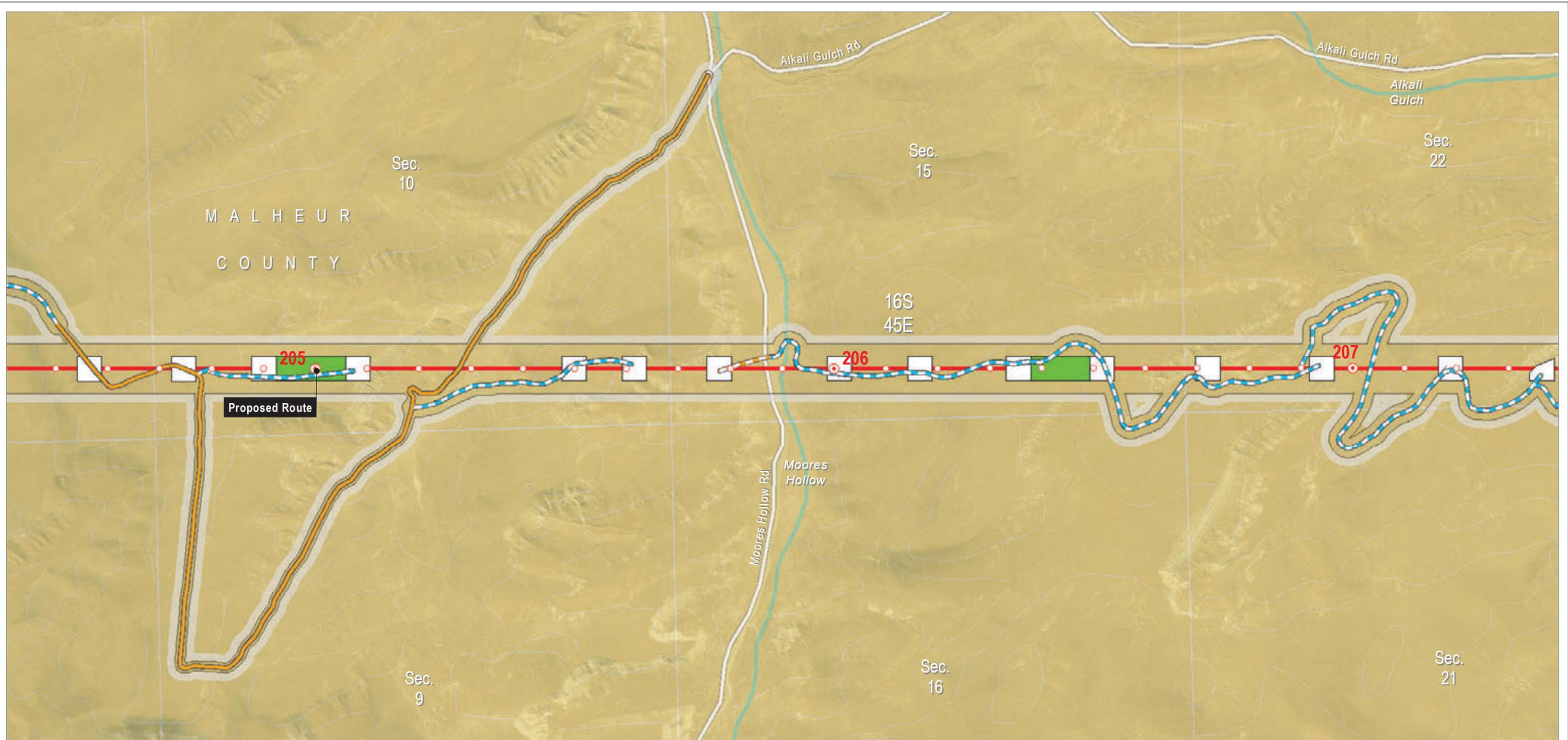


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 95

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
- Important Siting Constraints and Other Features**
- New Road, Bladed
 - New Road, Primitive
 - 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

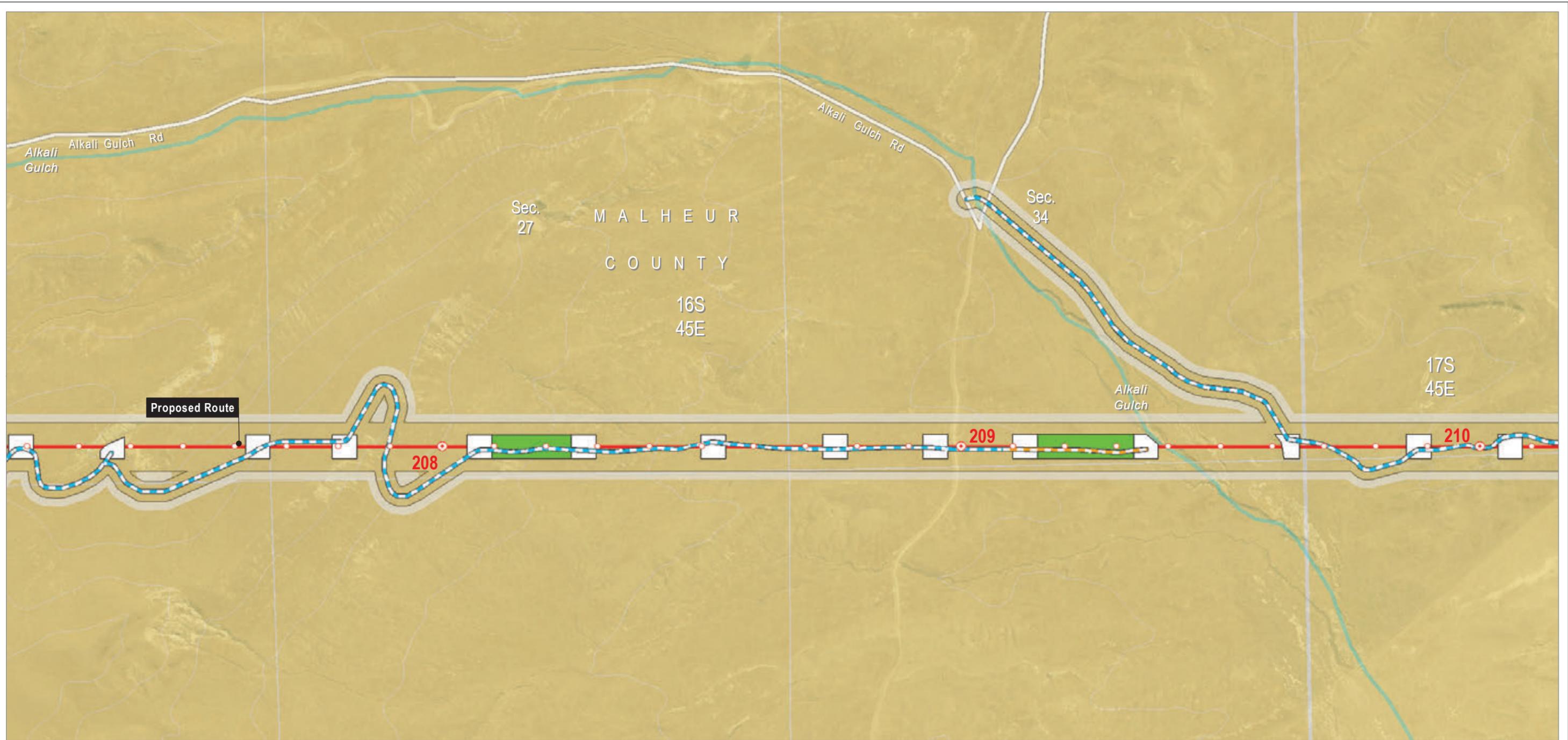


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 96

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

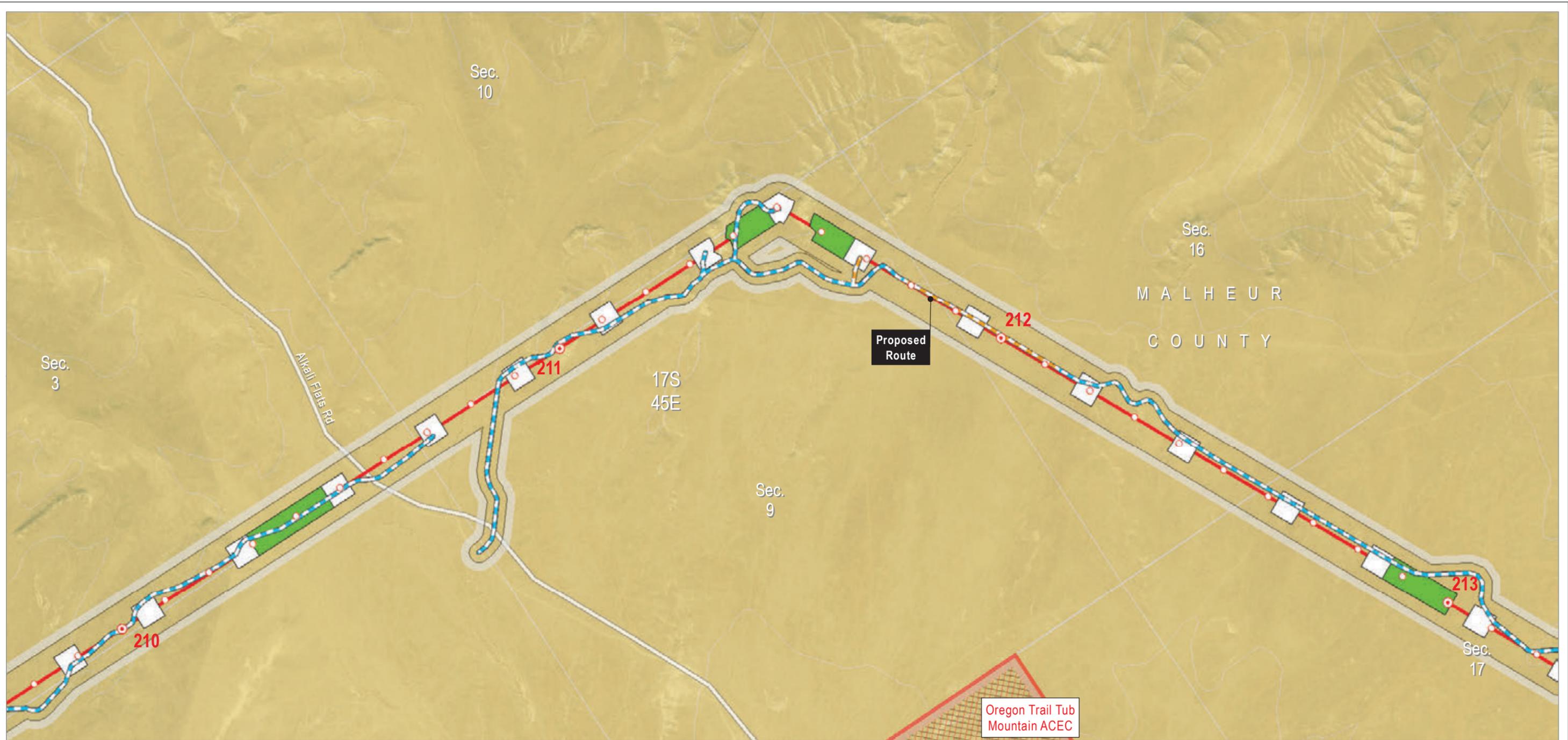


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 97

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access New Road, Bladed New Road, Primitive | <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road Protected Area (EFSC) VRM 2 Land Status Bureau of Land Management |
|--|--|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

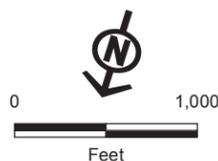
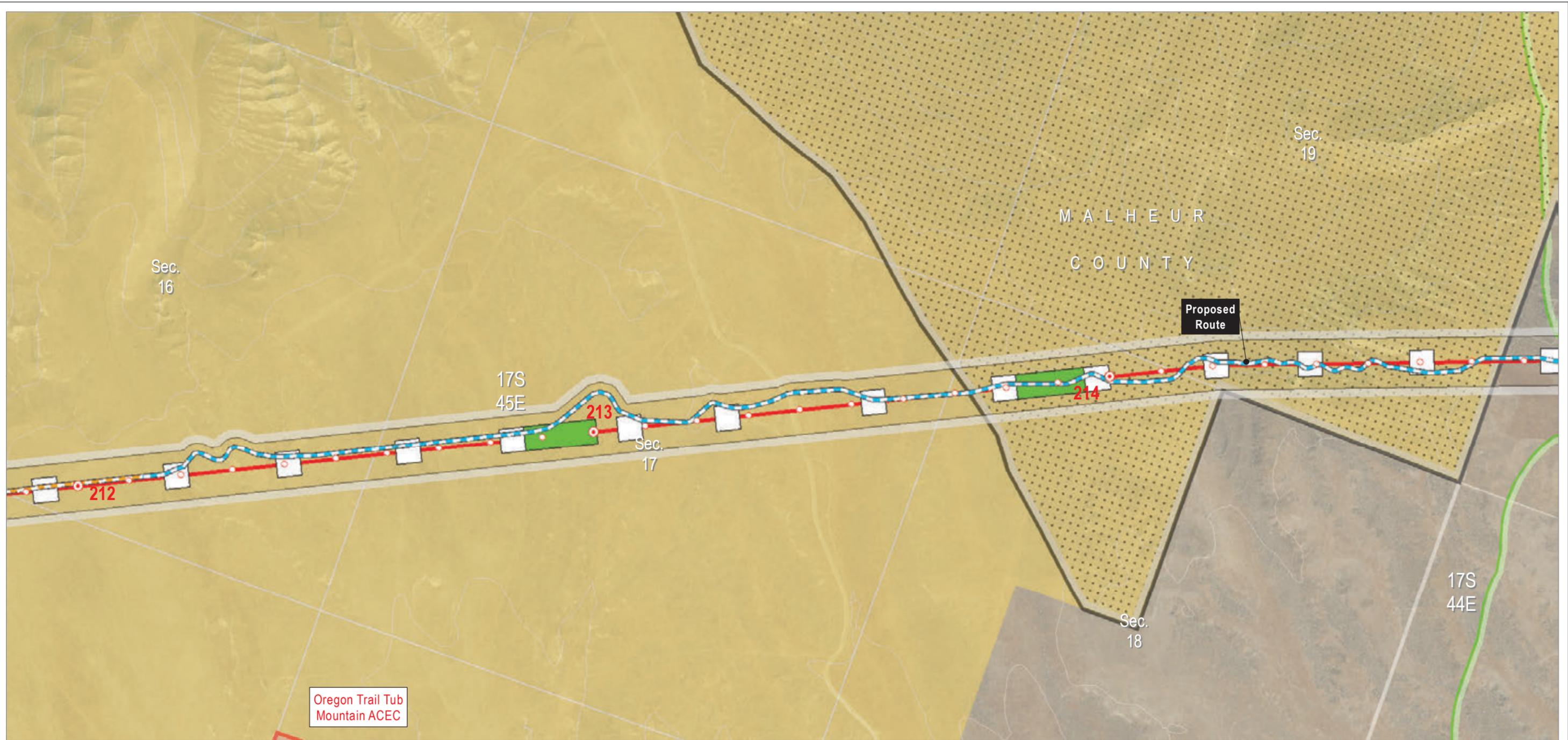


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 98

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- New Road, Bladed
- New Road, Primitive

Important Siting Constraints and Other Features

- 100-foot Contours
- Oregon NHT Intact Segment (1/4-mile buffer)
- Protected Area (EFSC)
- VRM 2
- VRM 3
- Land Status**
- Bureau of Land Management
- Private

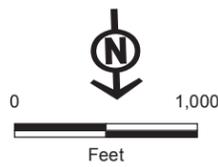
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 99



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Communication Station
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed
- New Road, Primitive
- Distribution Line to Communication Station (IPC Service Territory Only)
- Important Siting Constraints and Other Features**
- 100-foot Contours

- Existing Transmission Lines
- Oregon National Historic Trail (NHT)
- Highway
- Other Road
- Stream
- Oregon NHT Intact Segment (1/4-mile buffer)
- VRM 3

Land Status

- Bureau of Land Management
- Private

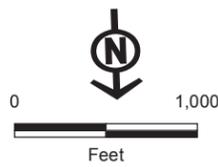
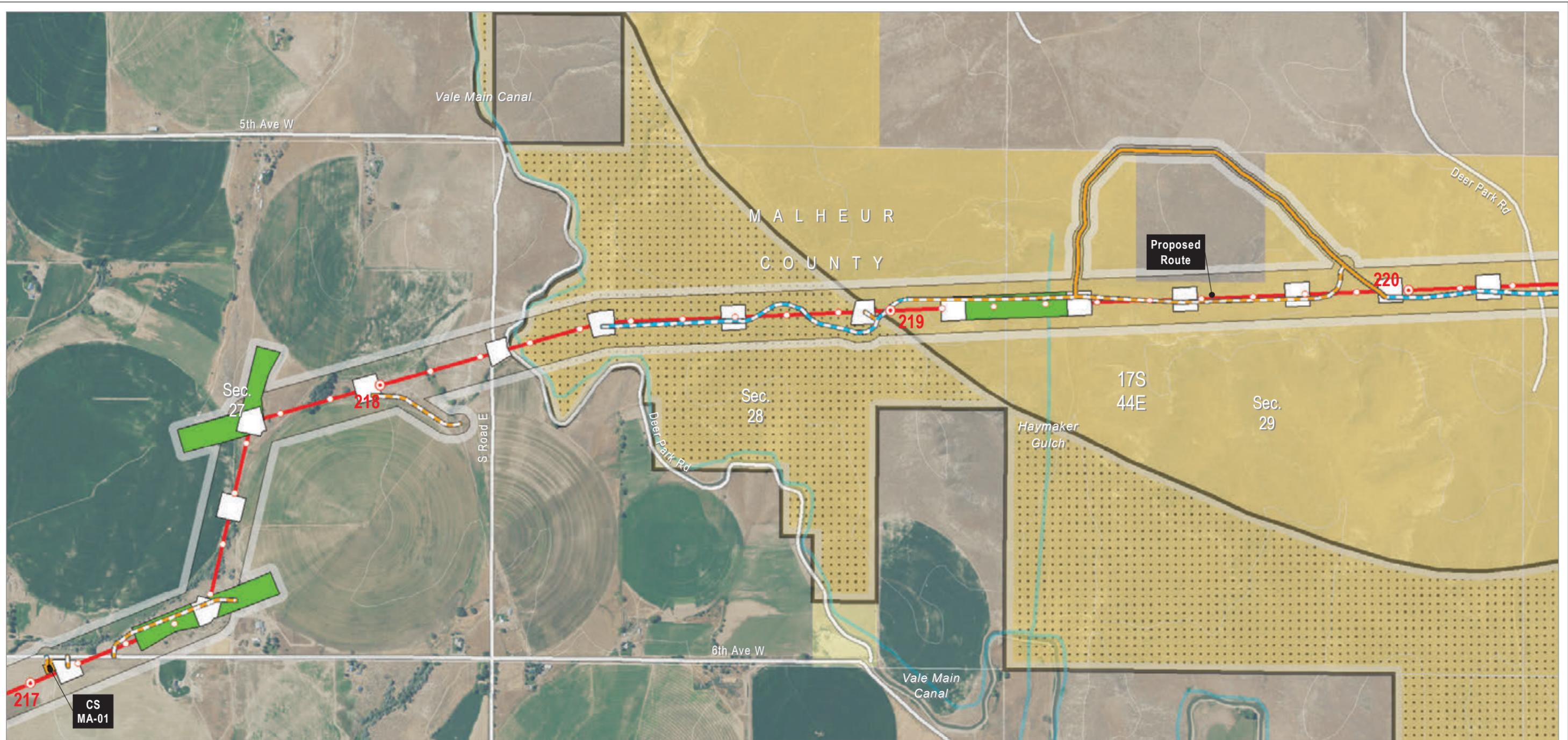
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 100



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Communication Station Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive Distribution Line to Communication Station (IPC Service Territory Only) <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours | <p>Other Road</p> <ul style="list-style-type: none"> Other Road <p>Stream</p> <ul style="list-style-type: none"> Stream <p>VRM 3</p> <ul style="list-style-type: none"> VRM 3 <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Bureau of Reclamation Private |
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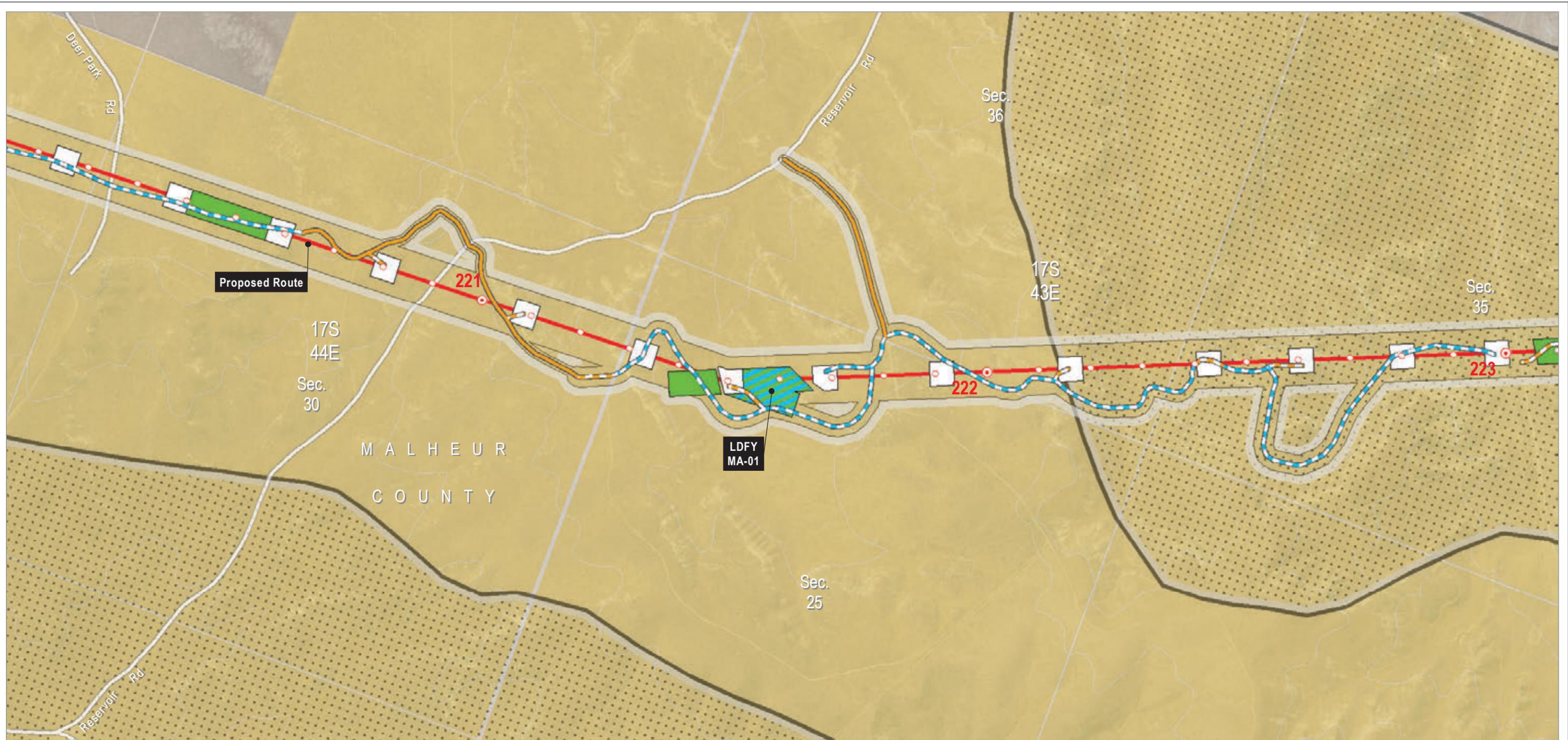
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 101



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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|---|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Light-Duty Fly Yard Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road VRM 3 | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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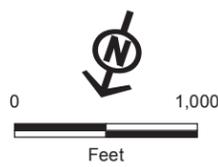
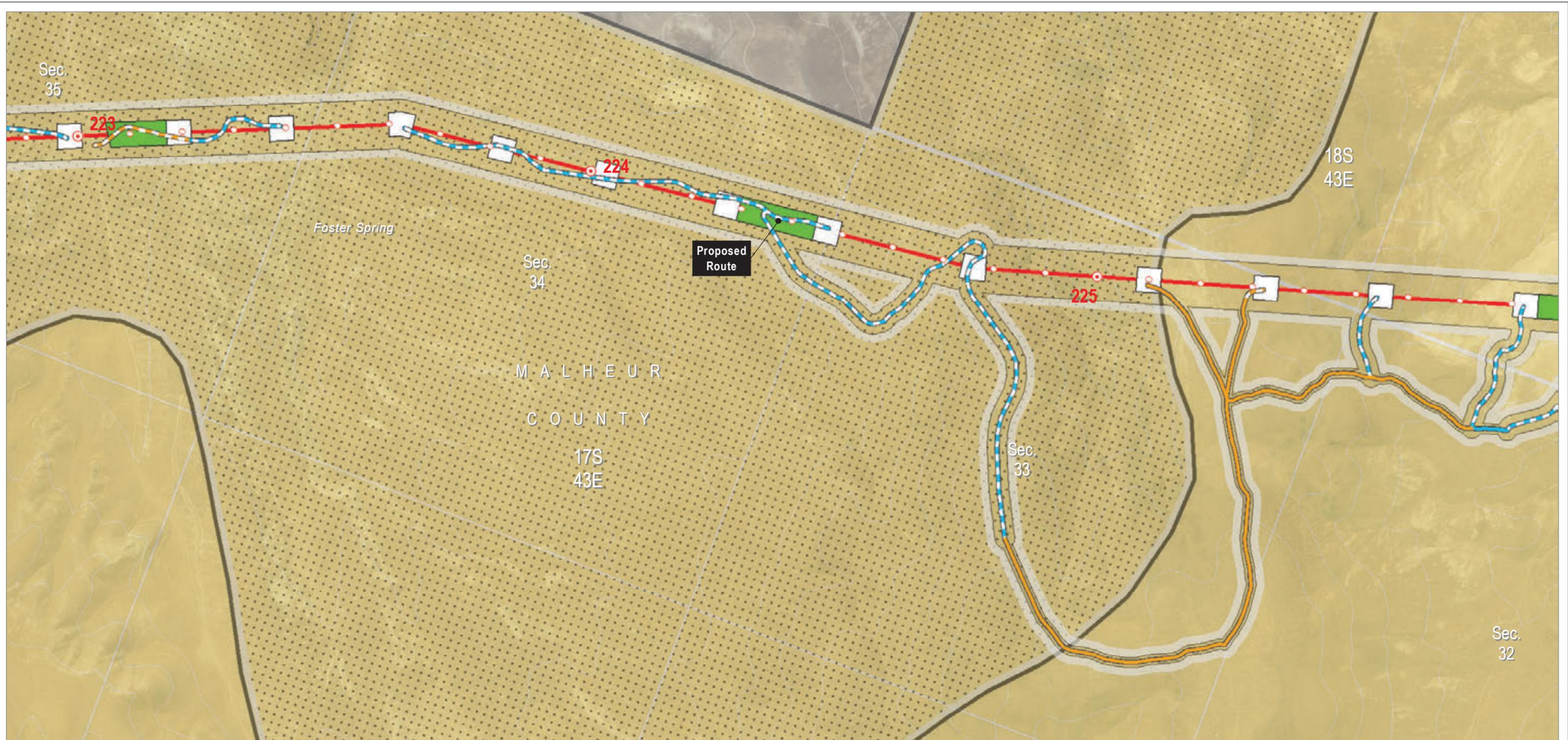
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 102



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours VRM 3 <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Bureau of Reclamation | <ul style="list-style-type: none"> Private |
|--|---|--|

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 103



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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|---|--|---|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road | <p>Stream</p> <ul style="list-style-type: none"> Stream <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 104



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Stream <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Bureau of Reclamation | <ul style="list-style-type: none"> Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

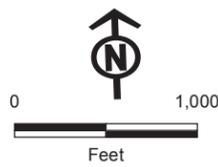
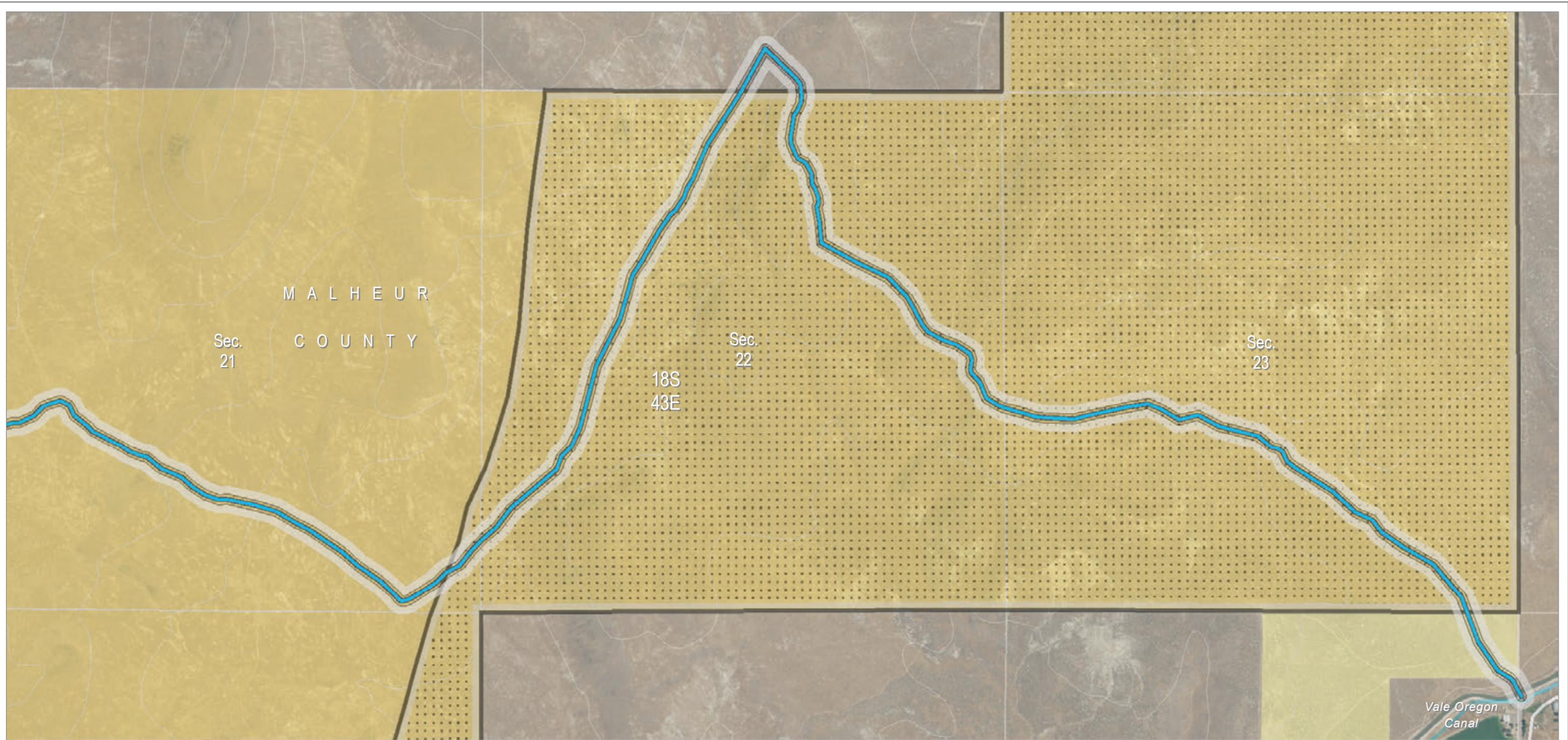


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 105

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Existing Road, Substantial Modification, 71-100% Improvements

Important Siting Constraints and Other Features

- 100-foot Contours
- Other Road
- Stream
- VRM 3

Land Status

- Bureau of Land Management
- Bureau of Reclamation
- Private

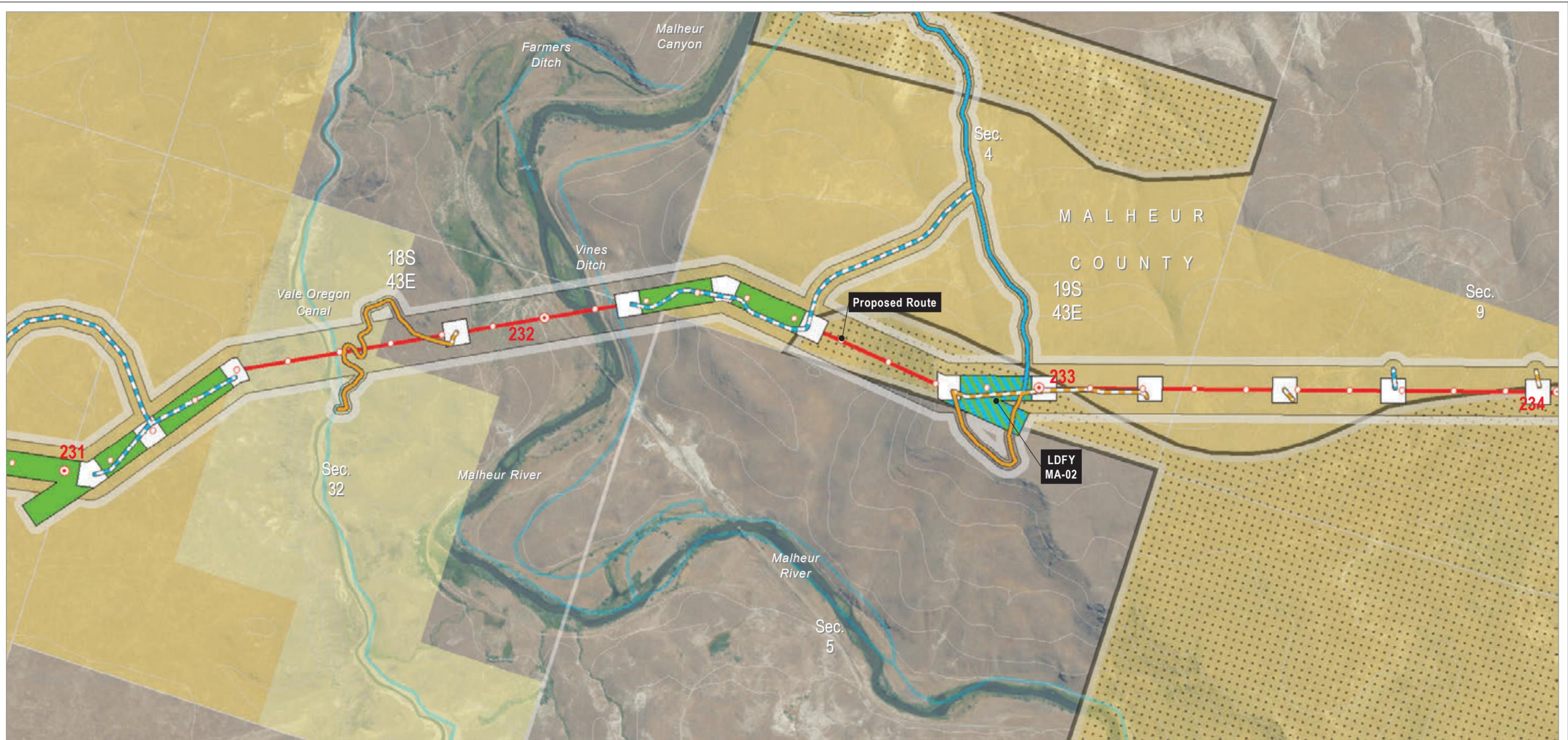
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 106



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Light-Duty Fly Yard Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Stream | <p>VRM 3</p> <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Bureau of Reclamation Private |
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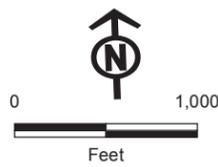
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**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 107



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|--|--------------------|
| Project Features | Land Status |
| Site Boundary | Private |
| Work Areas | |
| Multi-Use Area | |
| Important Siting Constraints and Other Features | |
| 100-foot Contours | |
| Existing Transmission Lines | |
| Other Road | |
| Railroad | |
| Stream | |

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Application for Site Certificate

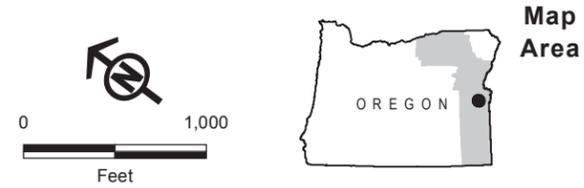


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 108

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours

- Existing Transmission Lines
- Highway
- Vale District (BLM) Utility Corridor
- VRM 3
- Land Status**
- Bureau of Land Management
- Private

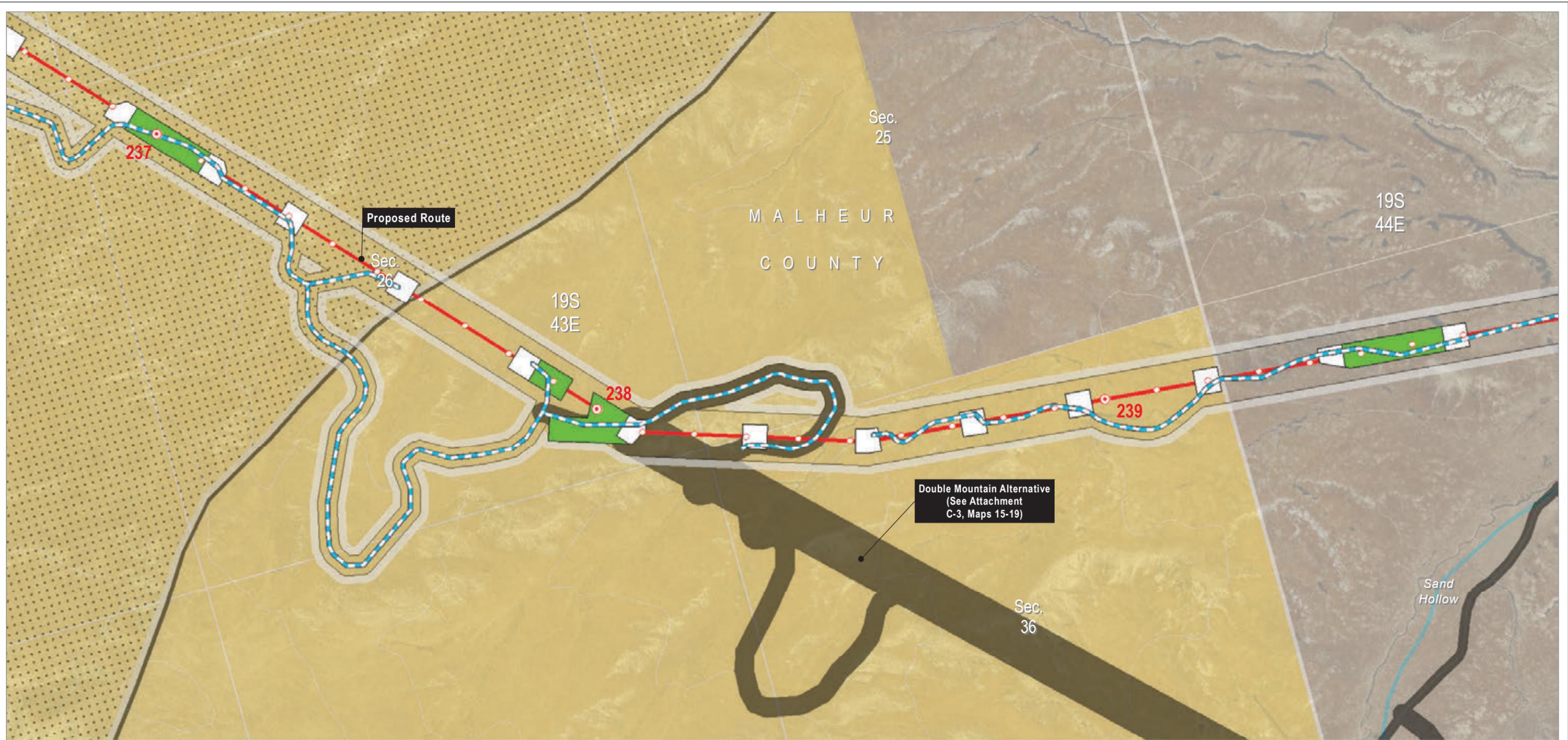
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 109



- Project Features**
- Site Boundary
 - Alternative
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- New Road, Bladed
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Stream
 - VRM 3
- Land Status**
- Bureau of Land Management
 - Private

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Application for Site Certificate

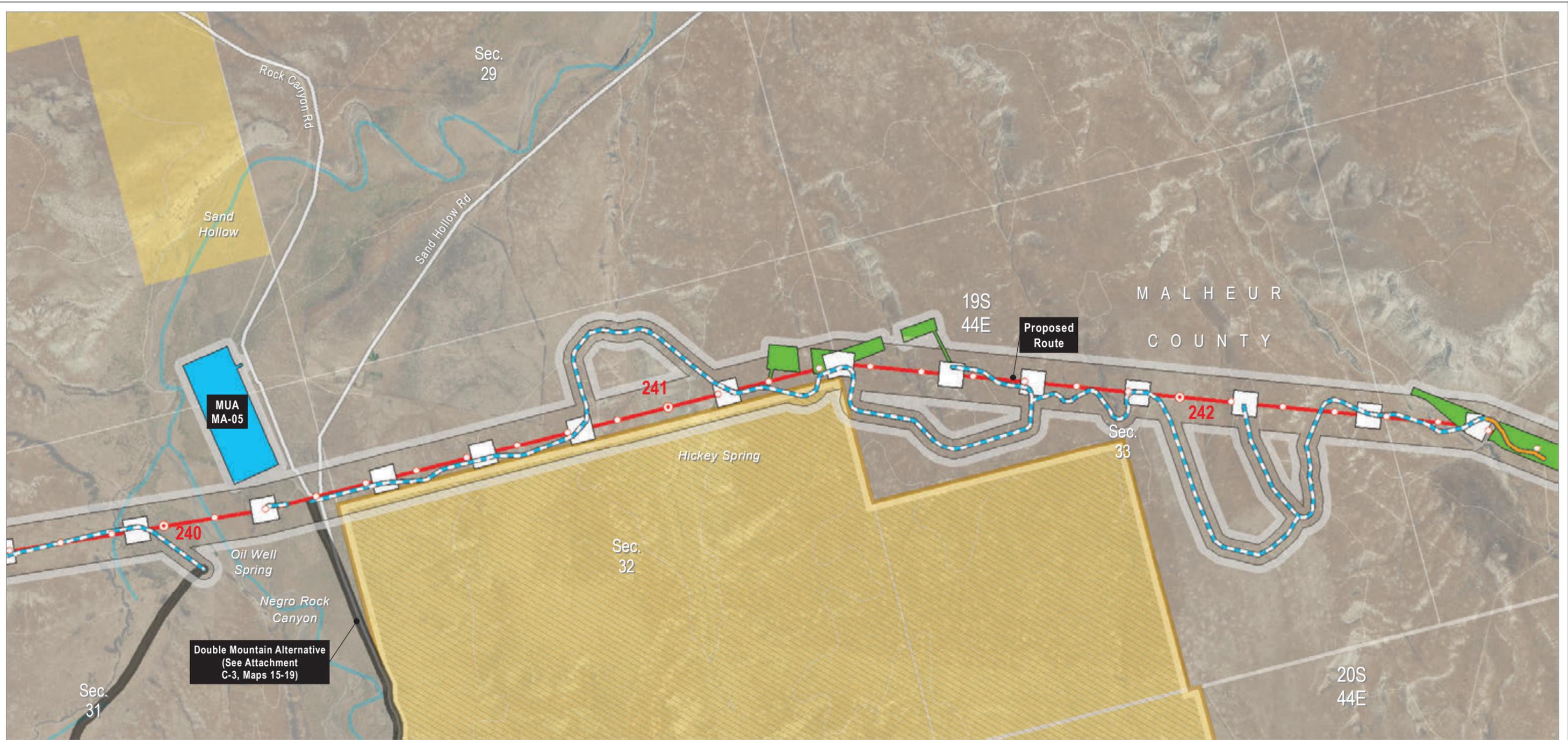


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 110

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road Stream | <p>Wilderness</p> <ul style="list-style-type: none"> Characteristic Unit Meeting Wilderness Criteria <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 111



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Communication Station Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive Distribution Line to Communication Station (IPC Service Territory Only) <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours | <p>Other Road</p> <ul style="list-style-type: none"> Wilderness Characteristic Unit Meeting Wilderness Criteria <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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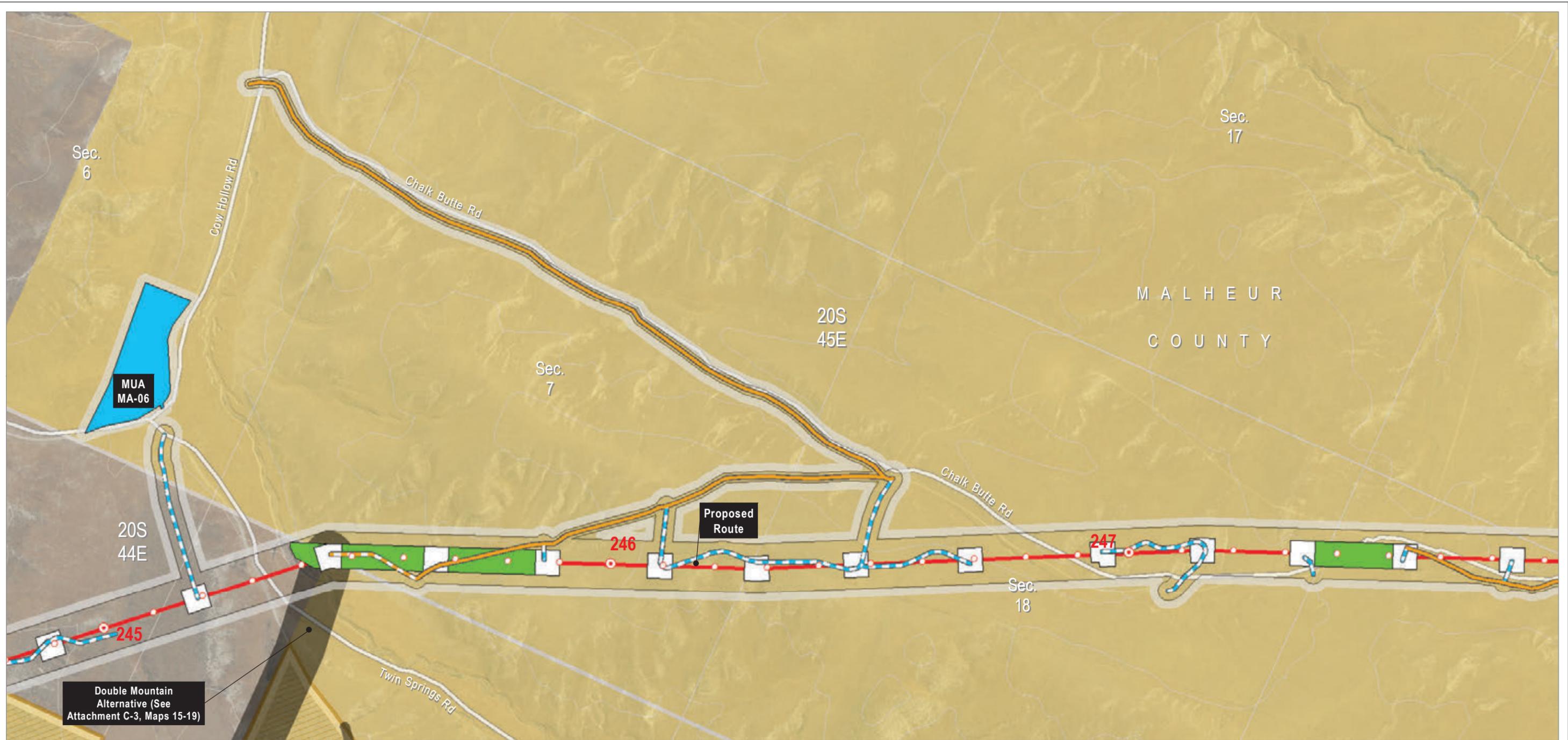
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**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 112



Double Mountain Alternative (See Attachment C-3, Maps 15-19)



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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Alternative Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Other Road | <p>Wilderness</p> <ul style="list-style-type: none"> Characteristic Unit Meeting Wilderness Criteria <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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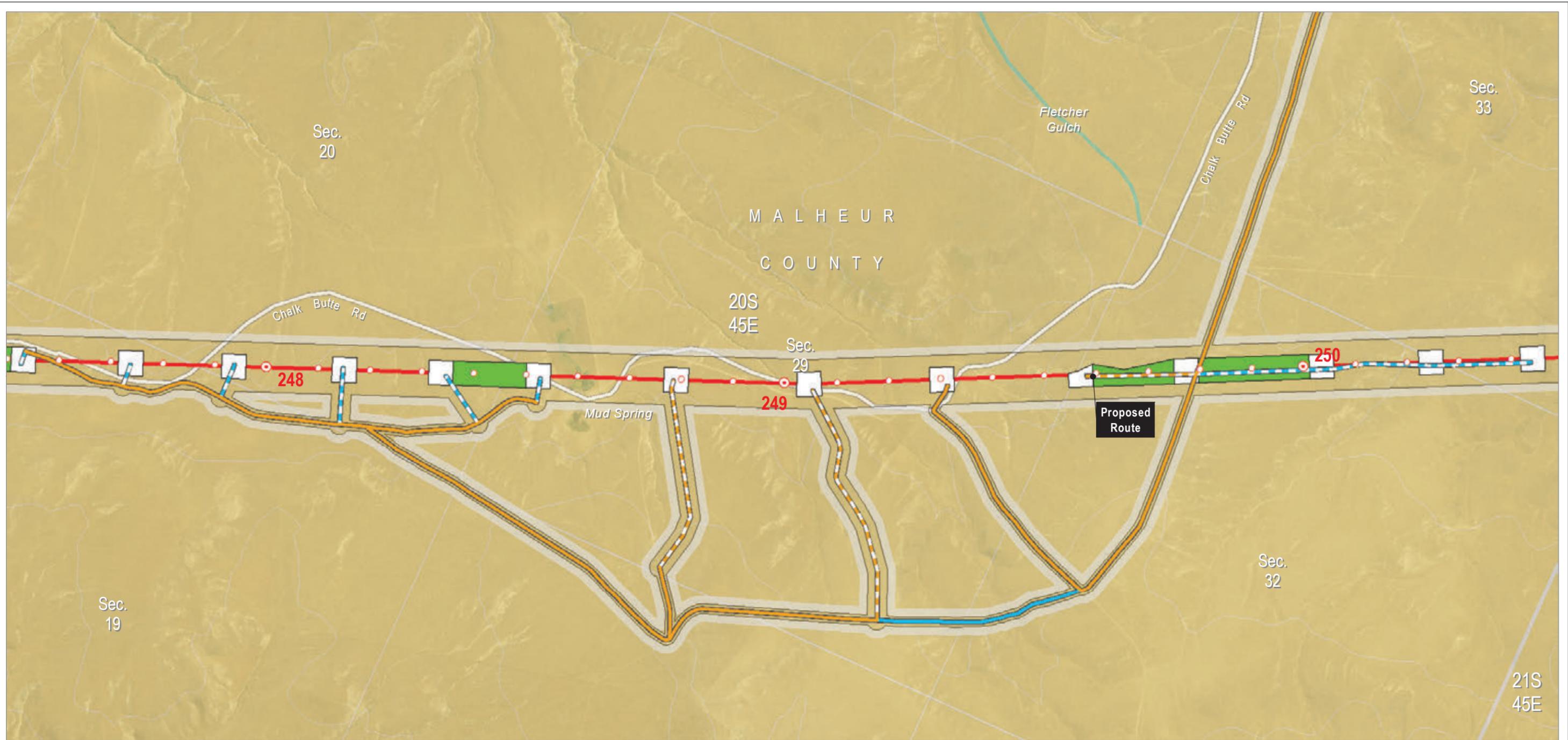


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 113

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management

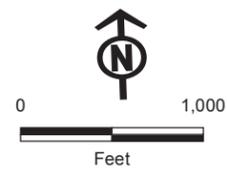
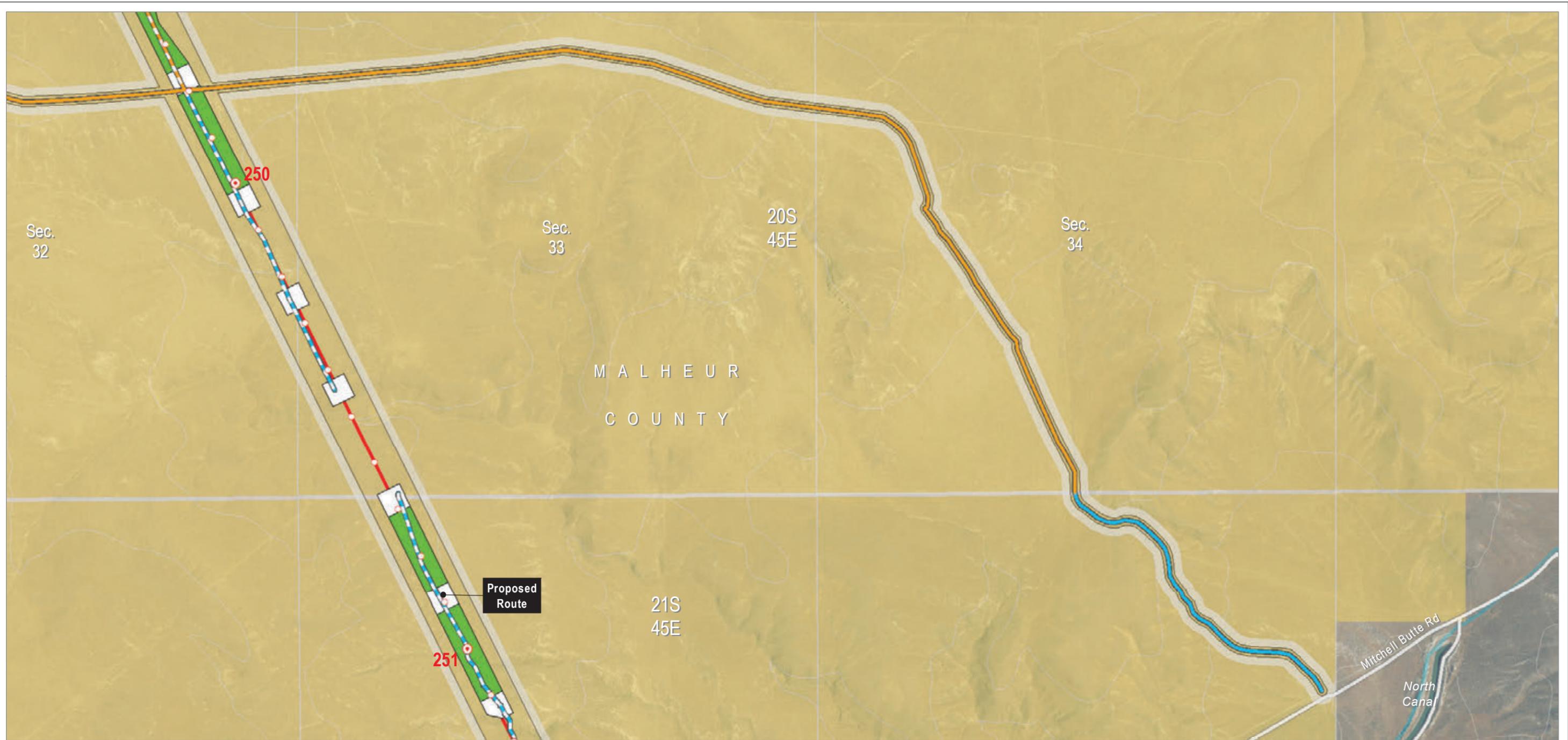
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**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 114



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road
- Stream
- Land Status**
- Bureau of Land Management

Private

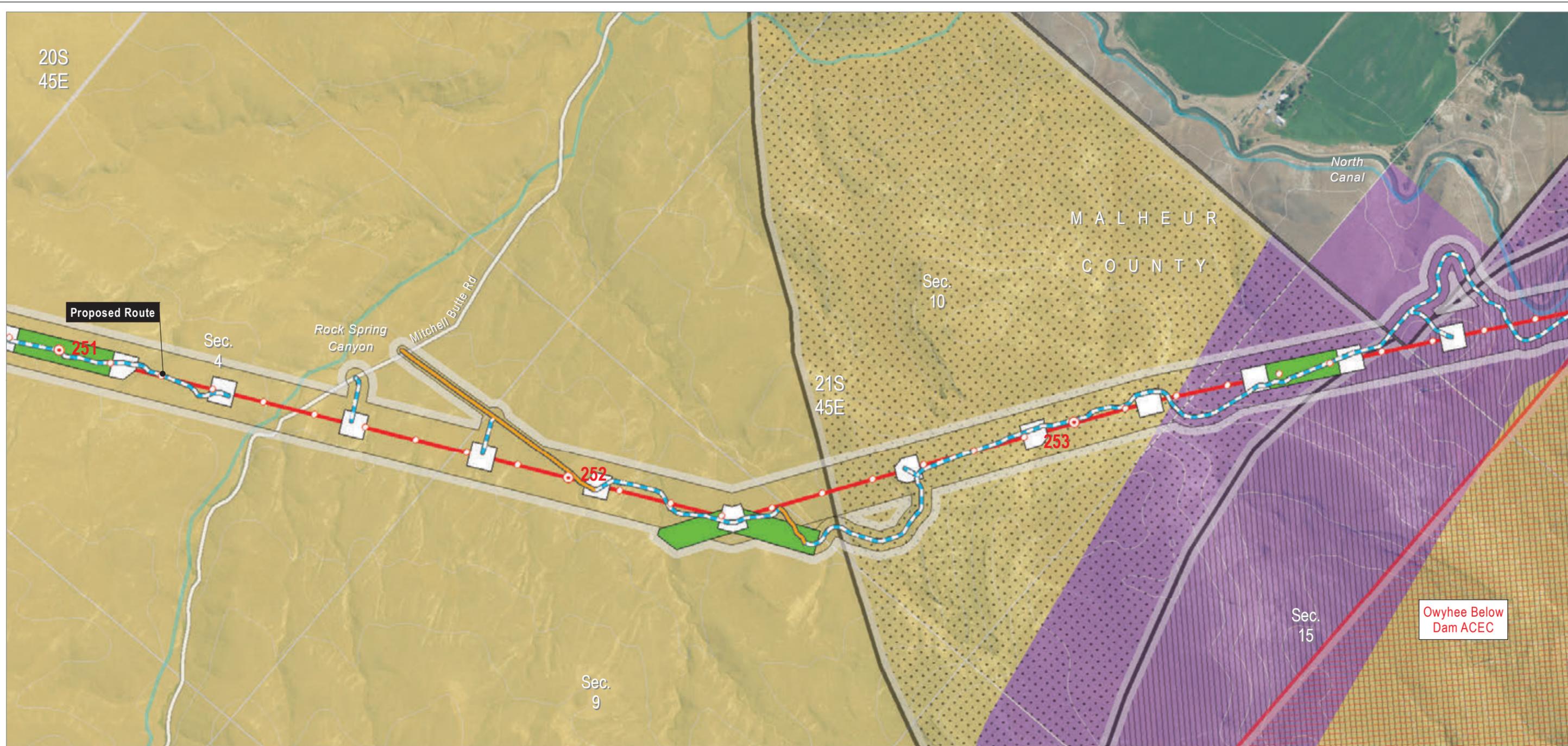
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**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 115



20S
45E

MALHEUR
COUNTY

North
Canal

Proposed Route

Sec.
4

Rock Spring
Canyon

Mitchell
Butte Rd

Sec.
10

21S
45E

Sec.
9

Sec.
15

Owyhee Below
Dam ACEC

251

252

253



Map
Area

Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

Important Siting Constraints and Other Features

- New Road, Bladed
- 100-foot Contours
- Other Road
- Stream
- Vale District (BLM) Utility Corridor
- Protected Area (EFSC)
- VRM 2
- VRM 3

Land Status

- Bureau of Land Management
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



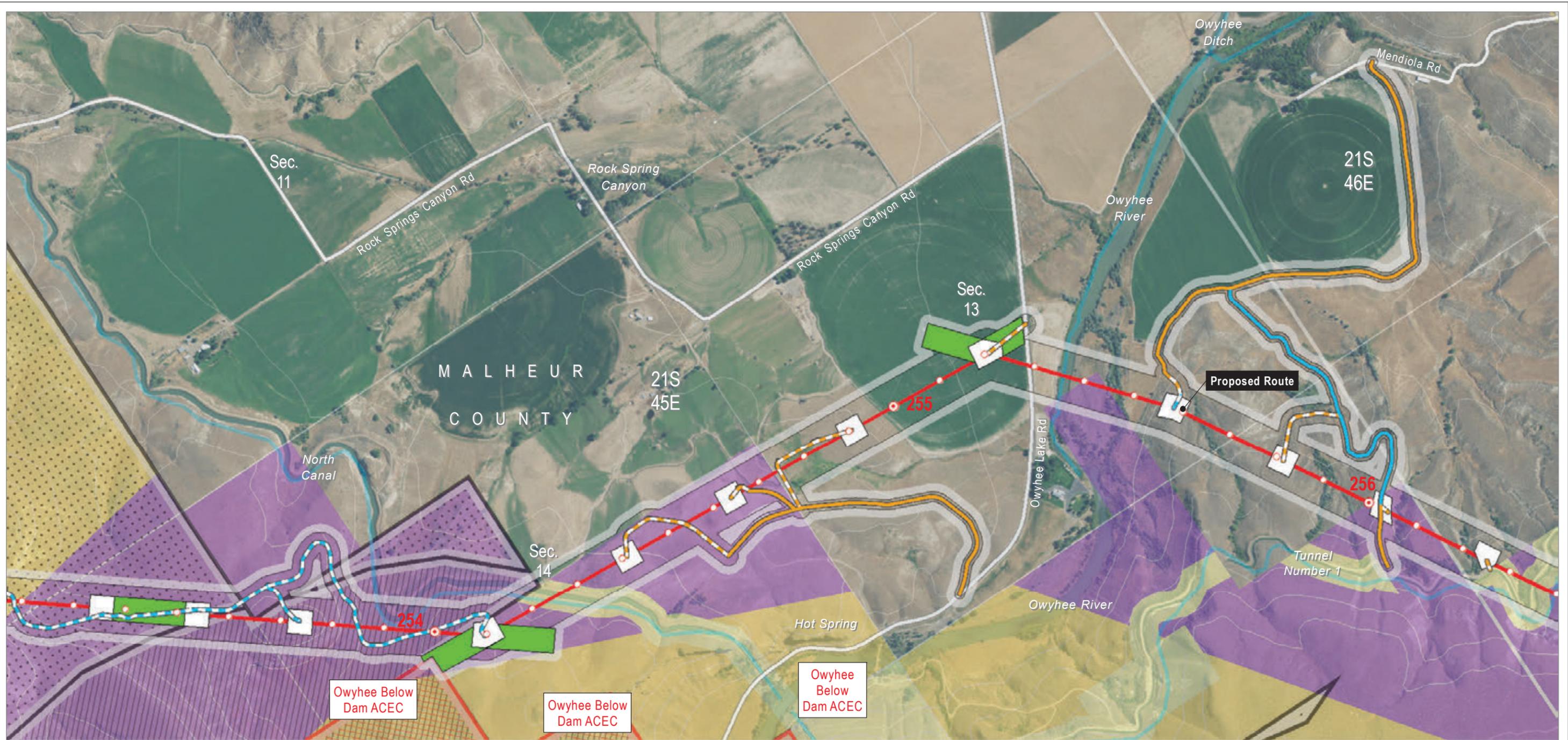
**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 116

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Other Road Stream Vale District (BLM) Utility Corridor Protected Area (EFSC) | <ul style="list-style-type: none"> VRM 2 VRM 3 Land Status Bureau of Land Management Bureau of Reclamation Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

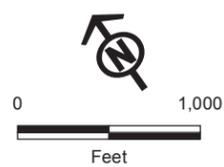
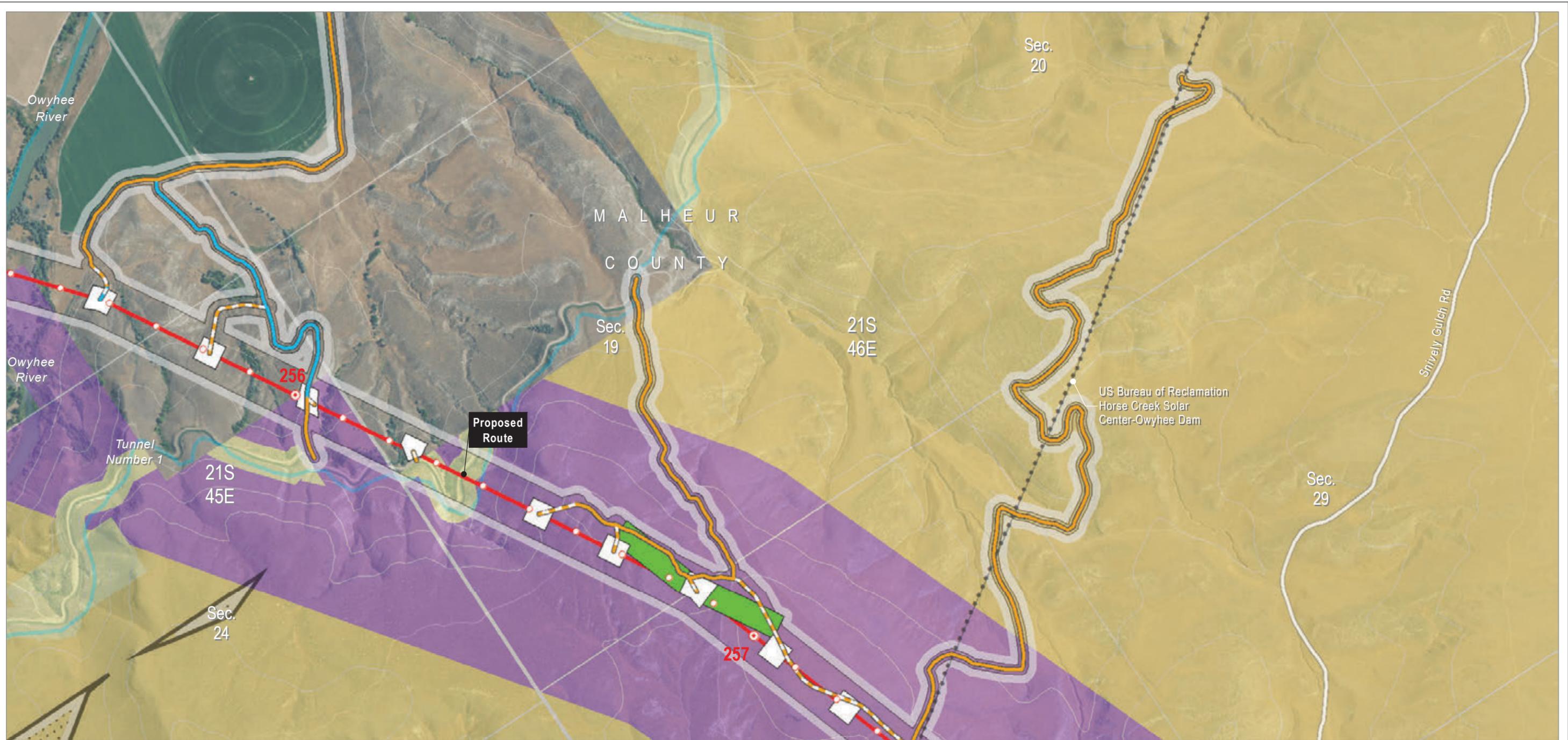


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 117

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p> Existing Road, Substantial Modification, 71-100% Improvements</p> <p> New Road, Bladed</p> <p> New Road, Primitive</p> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Stream | <p> Vale District (BLM) Utility Corridor</p> <p> VRM 3</p> <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Bureau of Reclamation Private |
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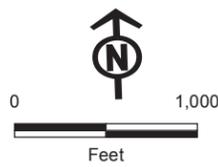
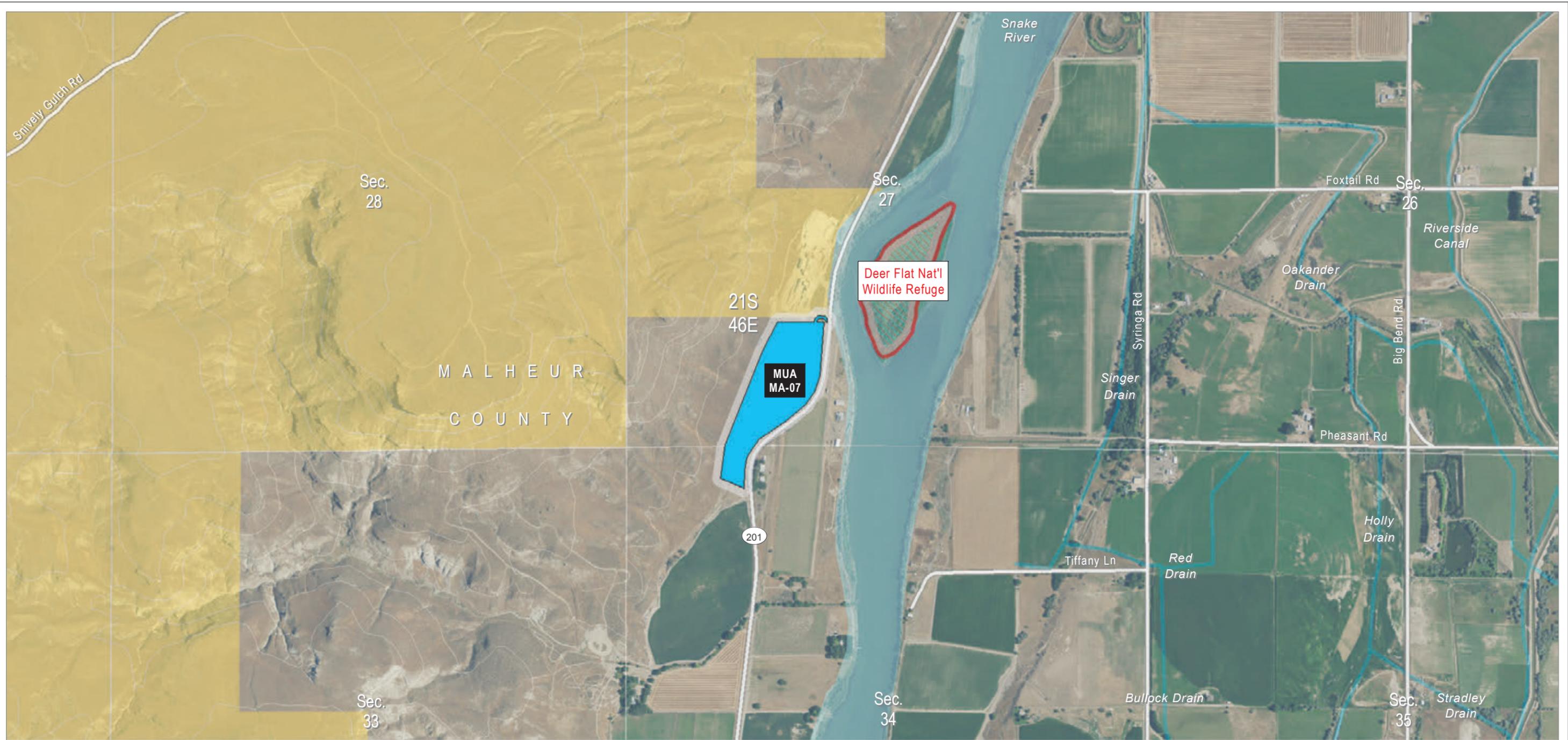
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**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 118



Project Features

Site Boundary

Work Areas

Multi-Use Area

Important Siting Constraints and Other Features

100-foot Contours

Other Road

Stream

Protected Area (EFSC)

Land Status

Bureau of Land Management

Fish and Wildlife Service

Private

State or Local

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



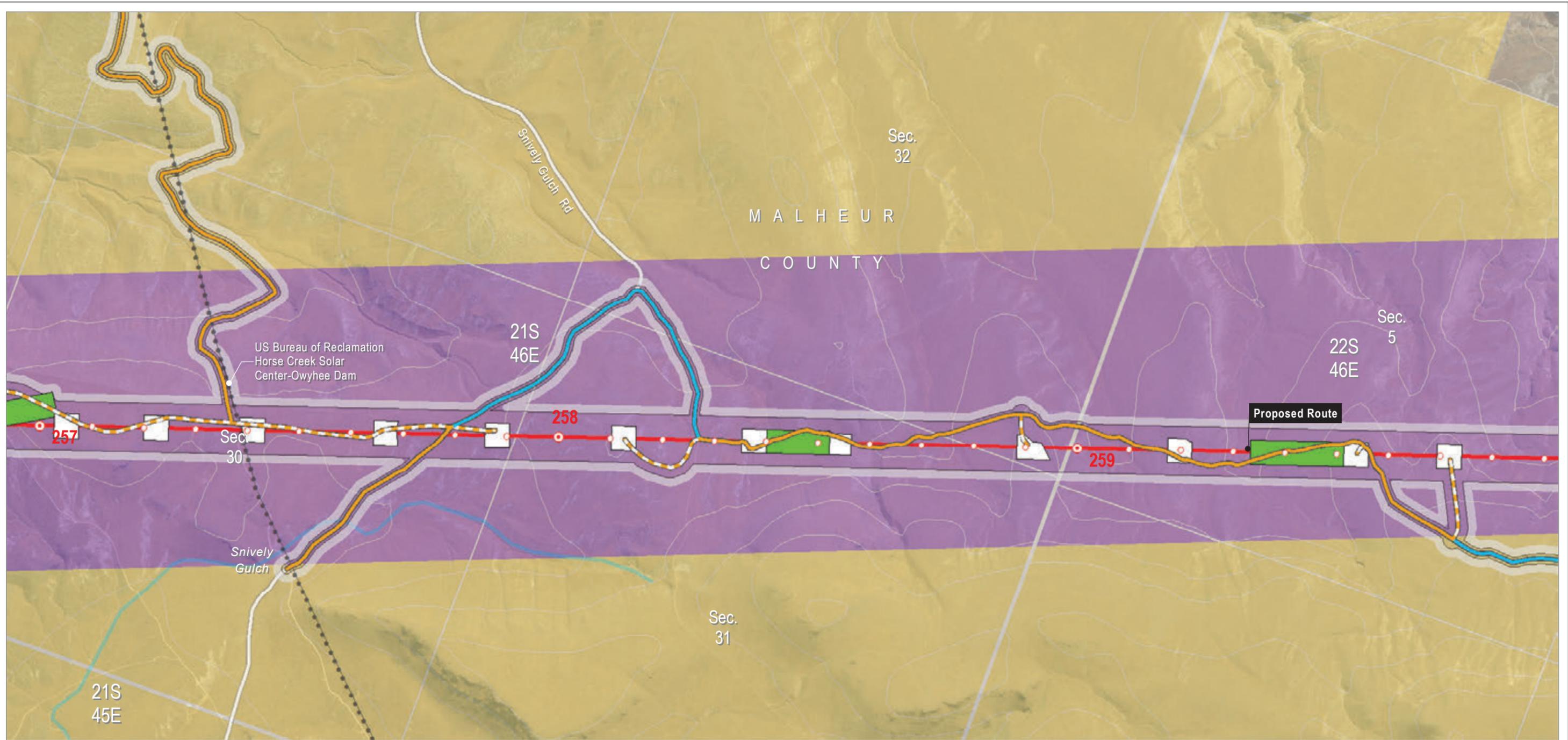
**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 119

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements | <p>Existing Road, Substantial Modification, 71-100% Improvements</p> <ul style="list-style-type: none"> <p>New Road, Primitive</p> <ul style="list-style-type: none"> <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Stream Vale District (BLM) Utility Corridor | <p>Land Status</p> <ul style="list-style-type: none"> Bureau of Land Management Private |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

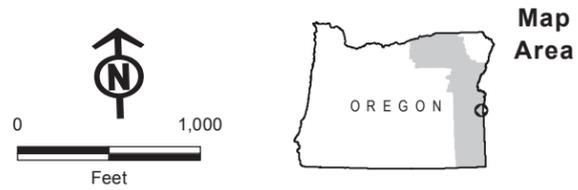
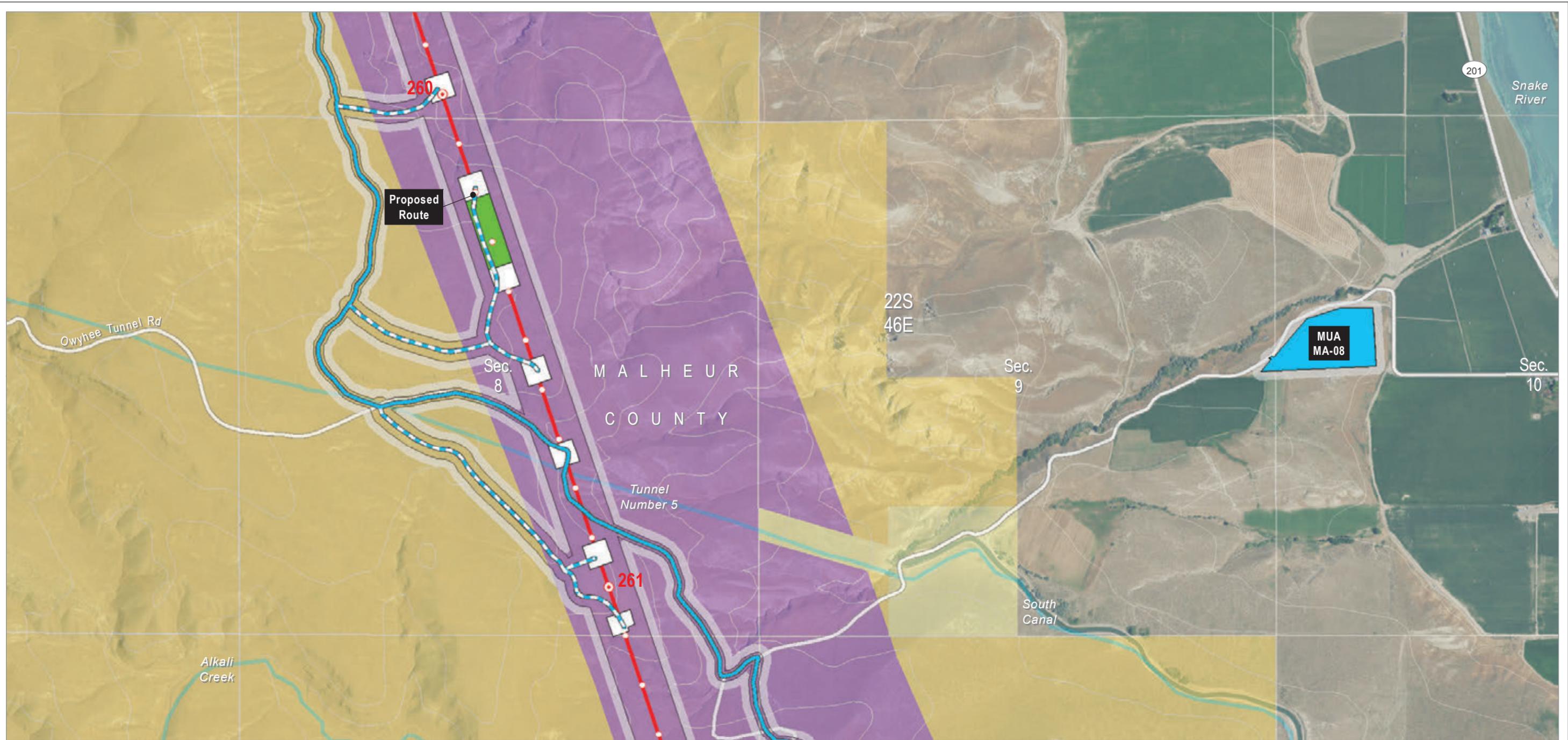


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 120

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road
- Stream
- Vale District (BLM) Utility Corridor

Land Status

- Bureau of Land Management
- Bureau of Reclamation
- Private
- State or Local

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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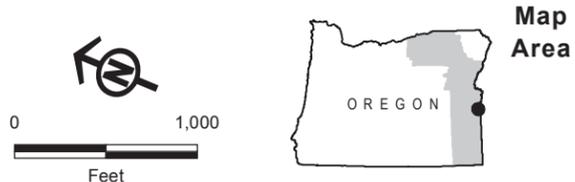
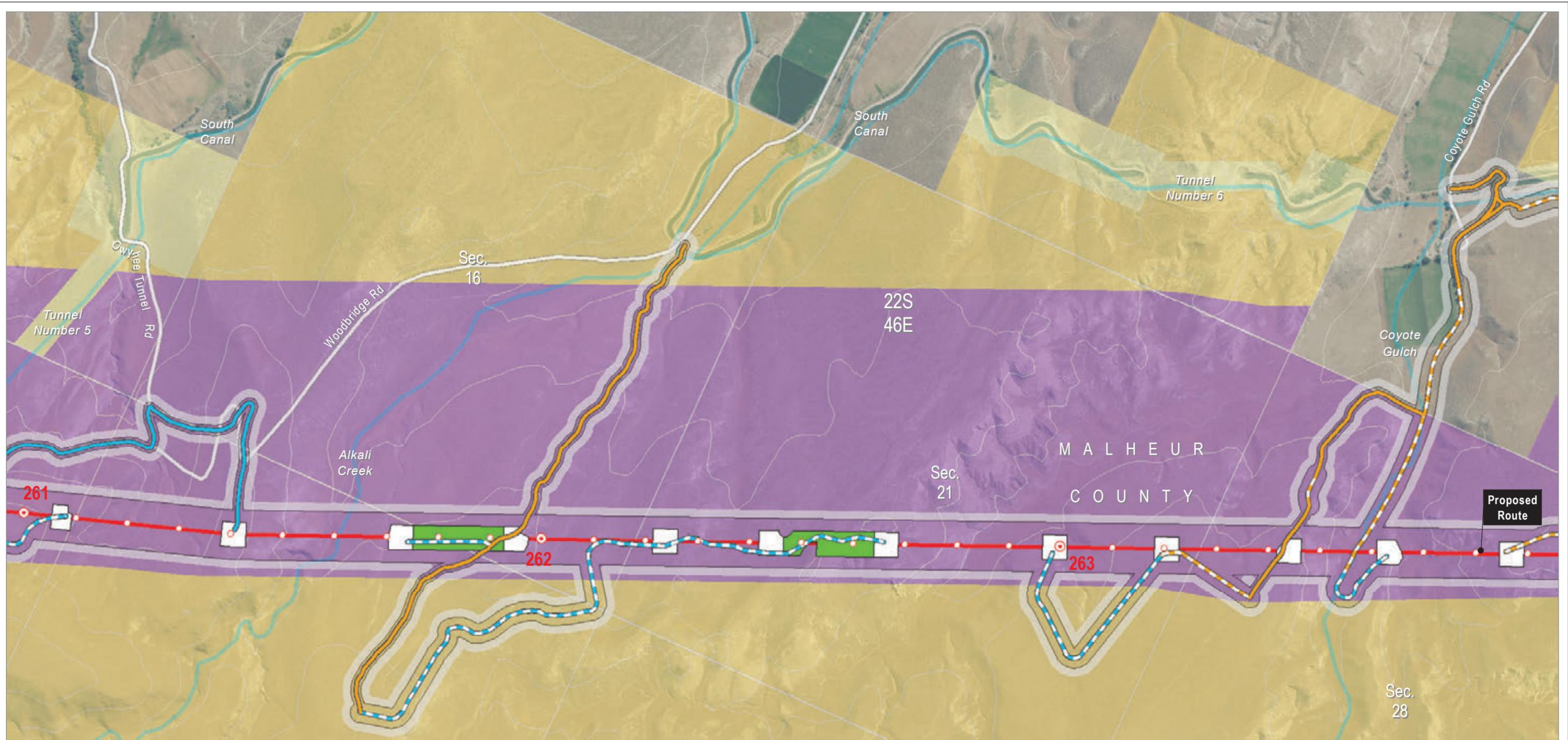
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Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 121



- Project Features**
- Site Boundary
 - Transmission Centerline
 - Mileposts**
 - Mile
 - Tenth-mile
 - Work Areas**
 - Pulling and Tensioning
 - Structure Work Area
 - Access**
 - Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
 - Important Siting Constraints and Other Features**
 - ~ 100-foot Contours
 - Other Road
 - ~ Stream
 - Vale District (BLM) Utility Corridor
- Land Status**
- Bureau of Land Management
 - Bureau of Reclamation
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

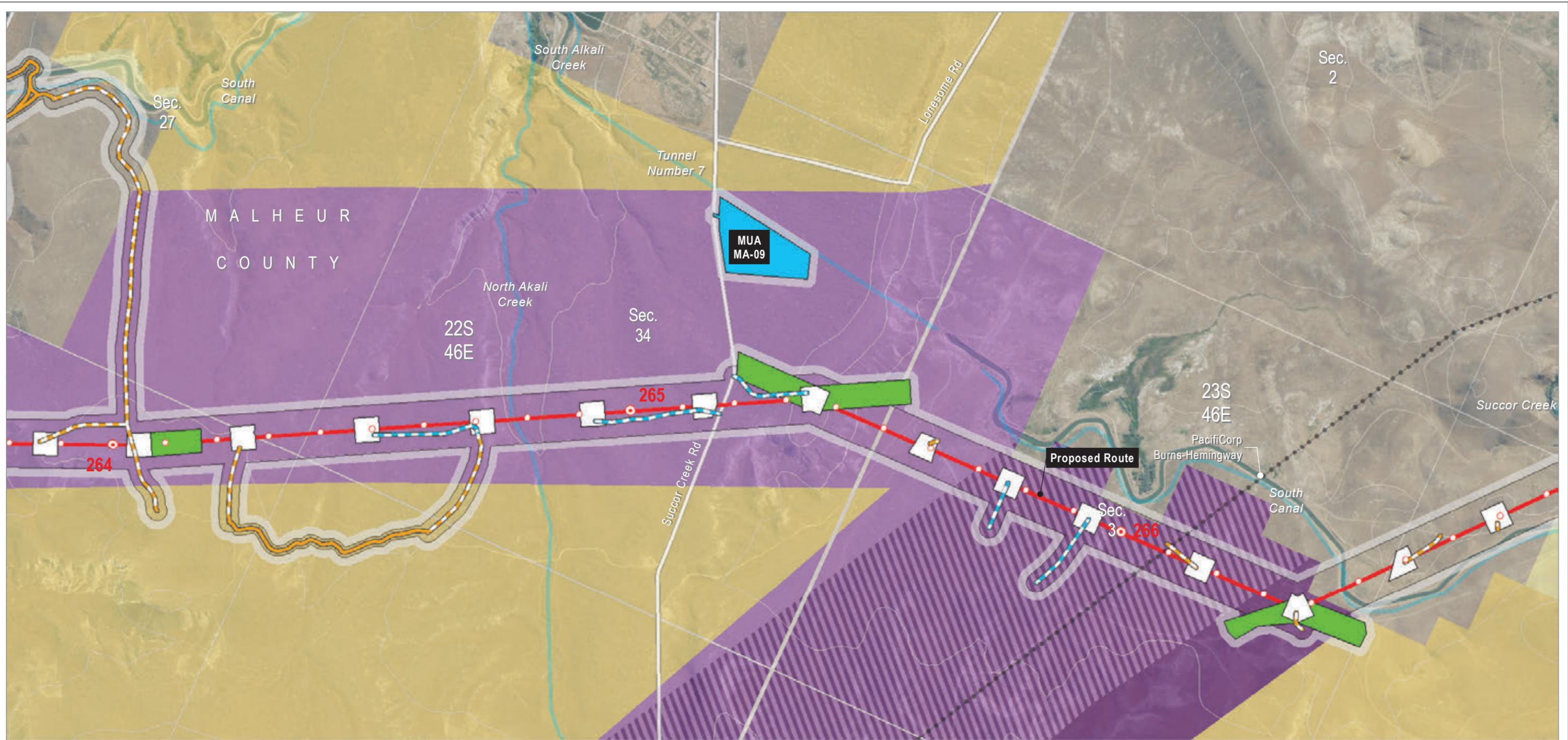


**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 122

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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|--|--|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Multi-Use Area Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Bladed New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Other Road Stream | <p>Land Status</p> <ul style="list-style-type: none"> Vale District (BLM) Utility Corridor Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WWEC) West-wide Energy Corridor (WWEC) Bureau of Land Management Bureau of Reclamation Private |
|--|--|--|

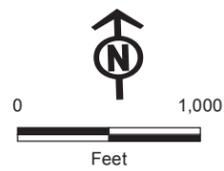
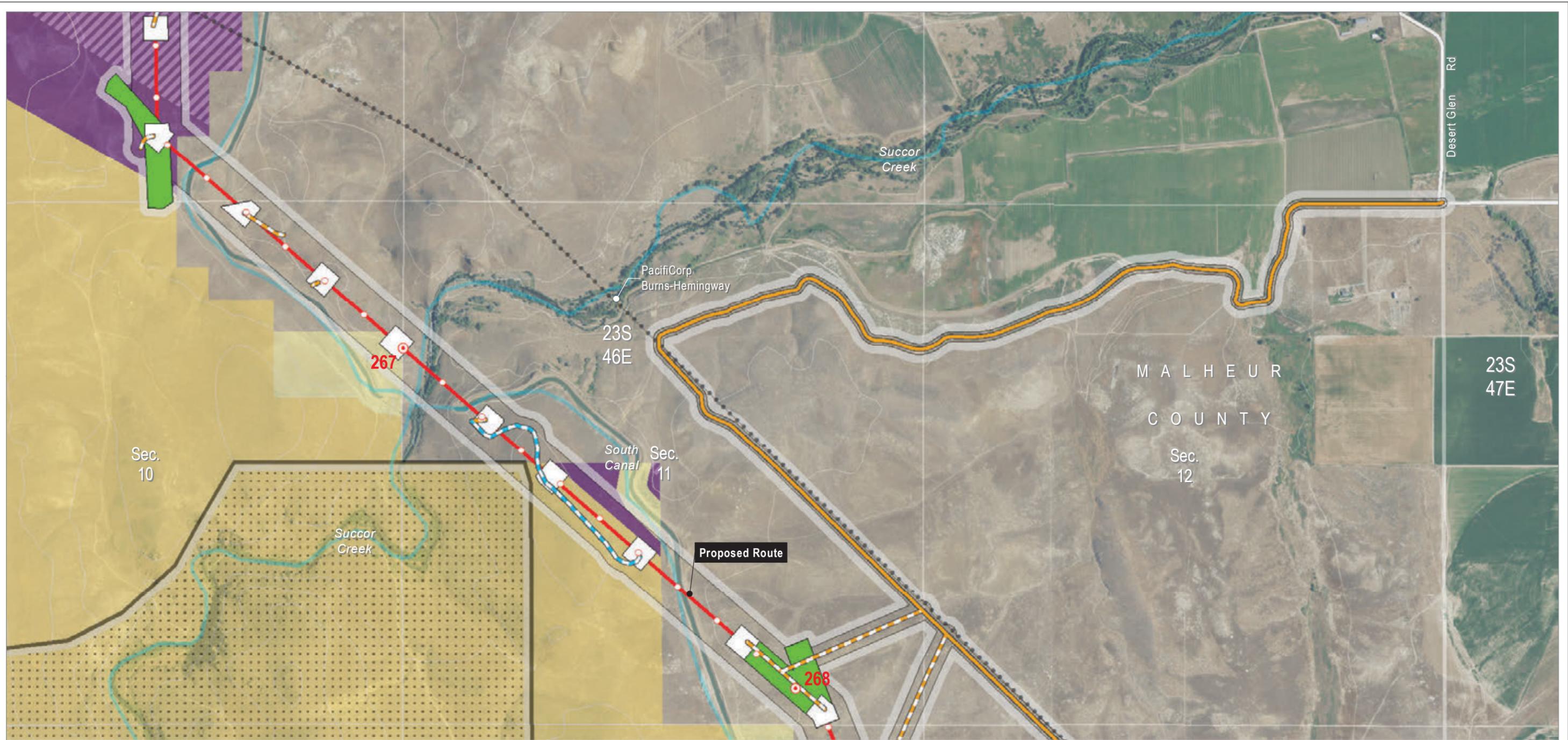
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 123



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines
- Other Road
- Stream
- Vale District (BLM) Utility Corridor

- Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WWEC)
- West-wide Energy Corridor (WWEC)
- VRM 3
- Land Status**
- Bureau of Land Management
- Bureau of Reclamation
- Private

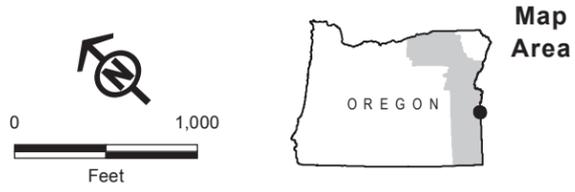
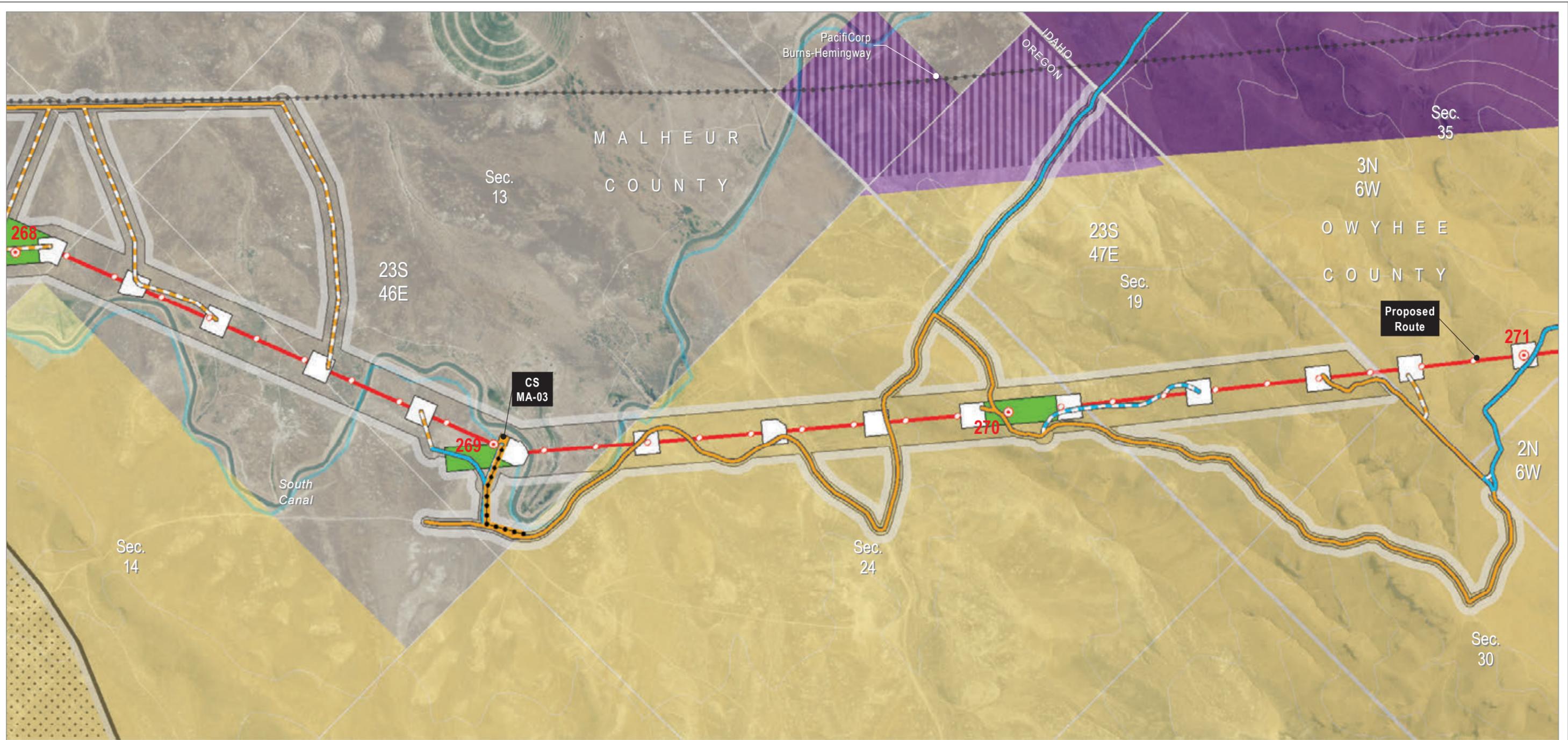
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 124



Project Features

- Site Boundary
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Communication Station
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Distribution Line to Communication Station (IPC Service Territory Only)

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines
- Stream
- Vale District (BLM) Utility Corridor
- Vale District (BLM) Utility Corridor and West-wide Energy Corridor (WVEC)

Land Status

- West-wide Energy Corridor (WVEC)
- VRM 3
- Bureau of Land Management
- Bureau of Reclamation
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



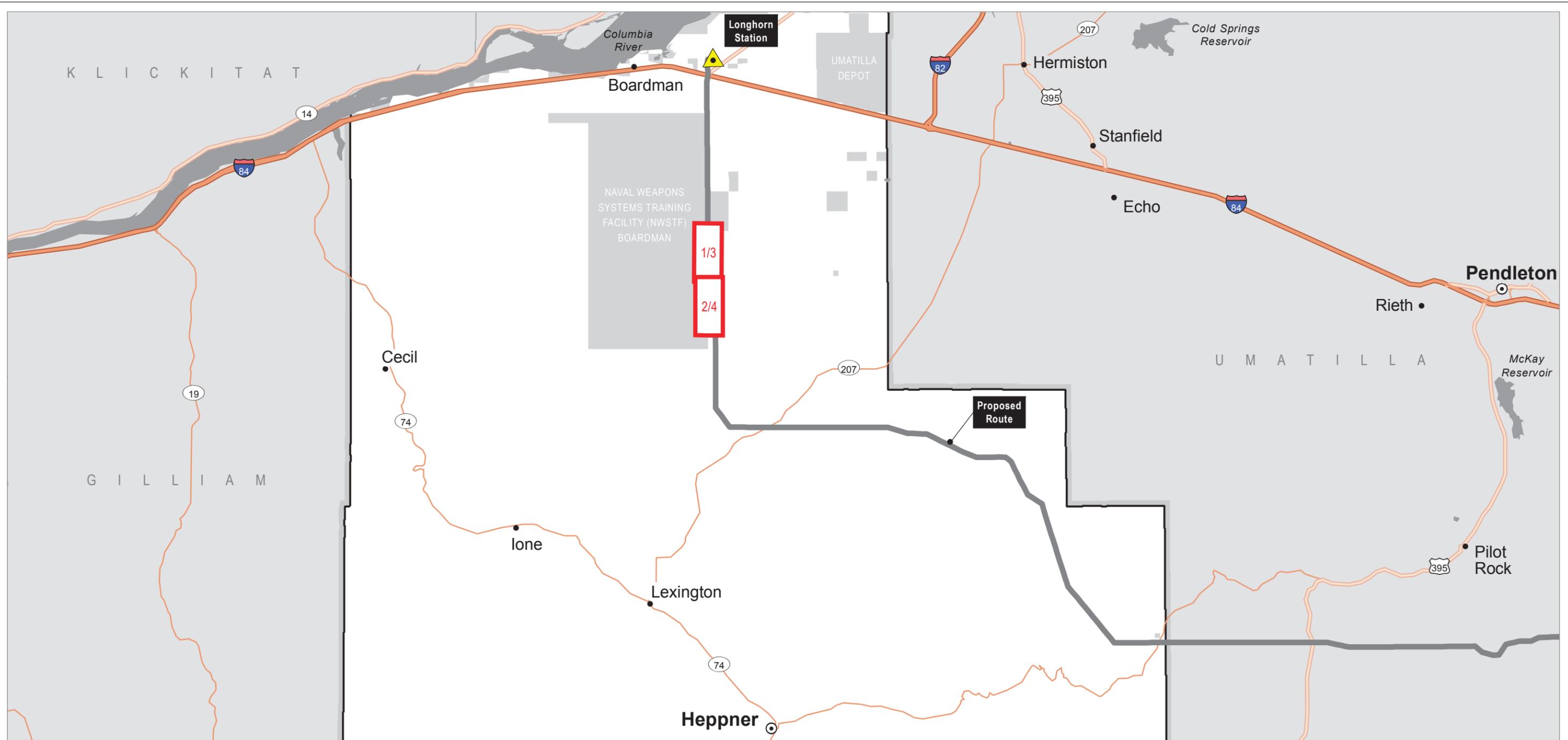
**Attachment C-2
Proposed Route Location Maps**

Malheur County

Map 125

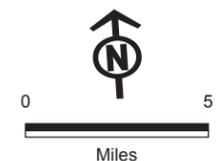
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ATTACHMENT C-3
ALTERNATIVE ROUTE LOCATIONS



1/3
2/4

Proposed Route



Map Area

Map Index
■ Location Map (Map #)

Boardman to Hemingway Transmission Line Project
 Application for Site Certificate

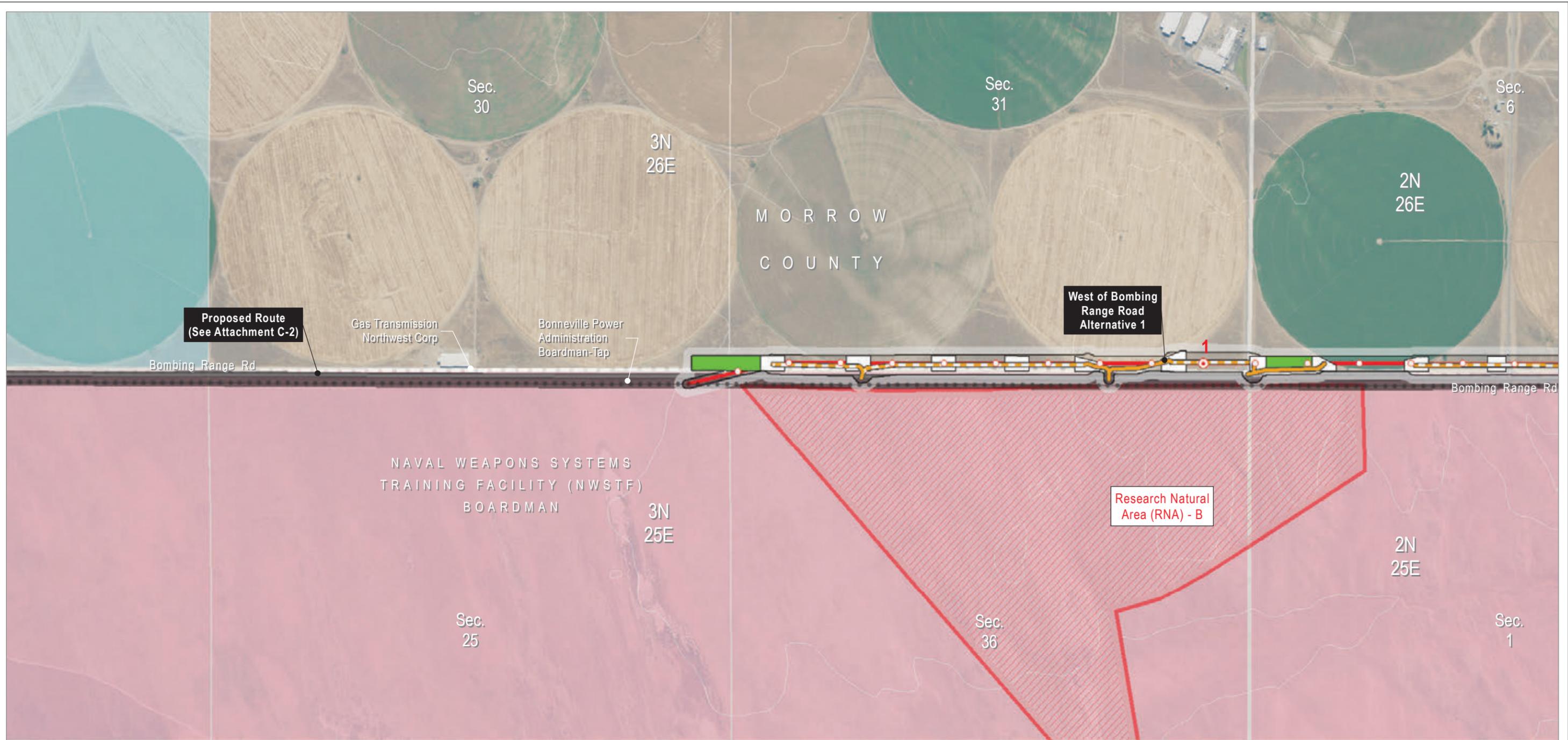


**Attachment C-3
 Alternative Location Maps**

West of Bombing Range Road Alternatives 1/2
 Morrow County

Map Index

Source(s): BLM, IPC, Esri
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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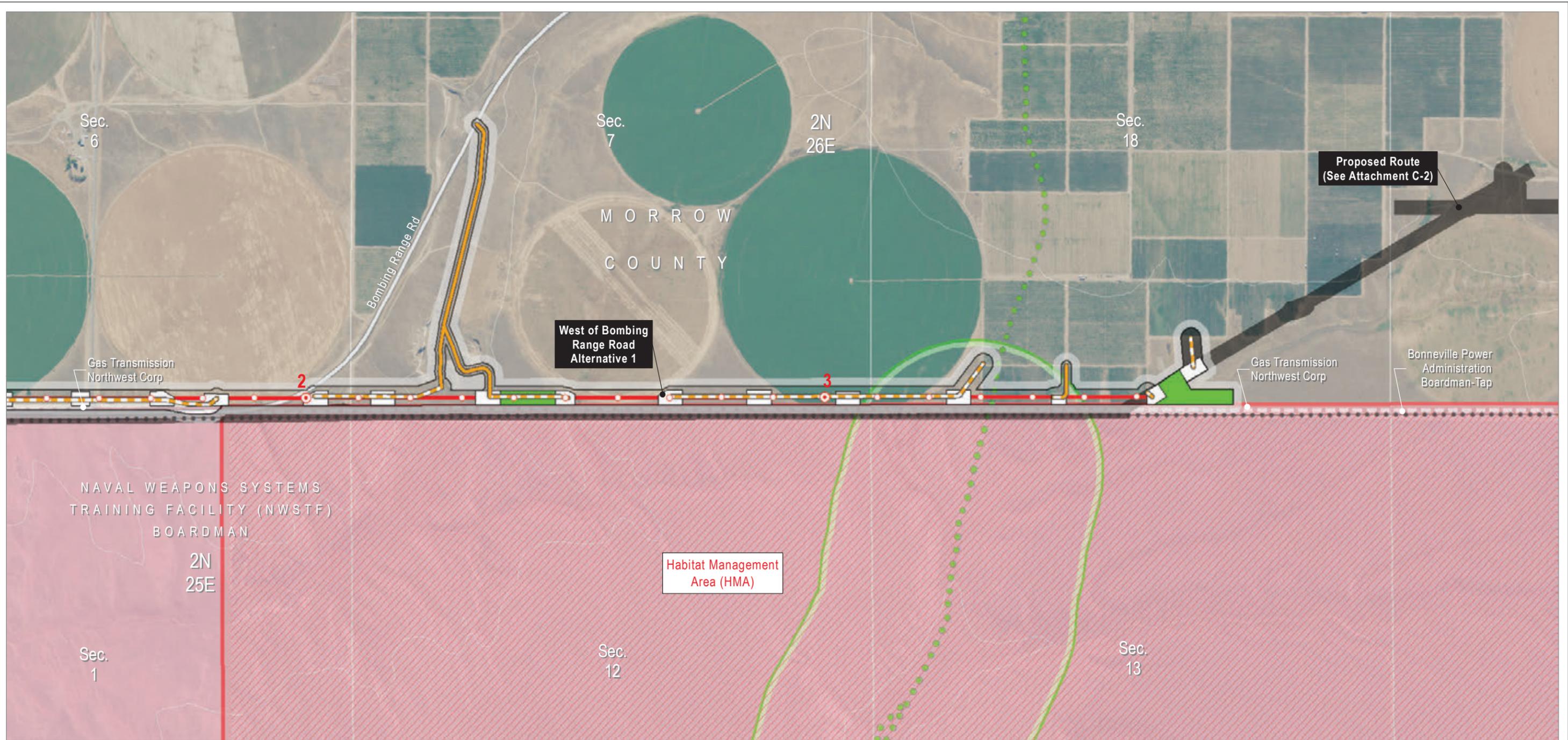
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| <p>Project Features</p> <ul style="list-style-type: none"> □ Site Boundary ■ Proposed Route — Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> ● Mile ○ Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> ■ Pulling and Tensioning □ Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> — Existing Road, Substantial Modification, 21-70% Improvements — New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> ~ 100-foot Contours ● Existing Transmission Lines — Pipeline — Other Road ■ Protected Area (EFSC) | <p>Land Status</p> <ul style="list-style-type: none"> ■ Military Reservation or Corps of Engineers □ Private ■ State or Local |
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

West of Bombing Range Road Alternative 1
Morrow County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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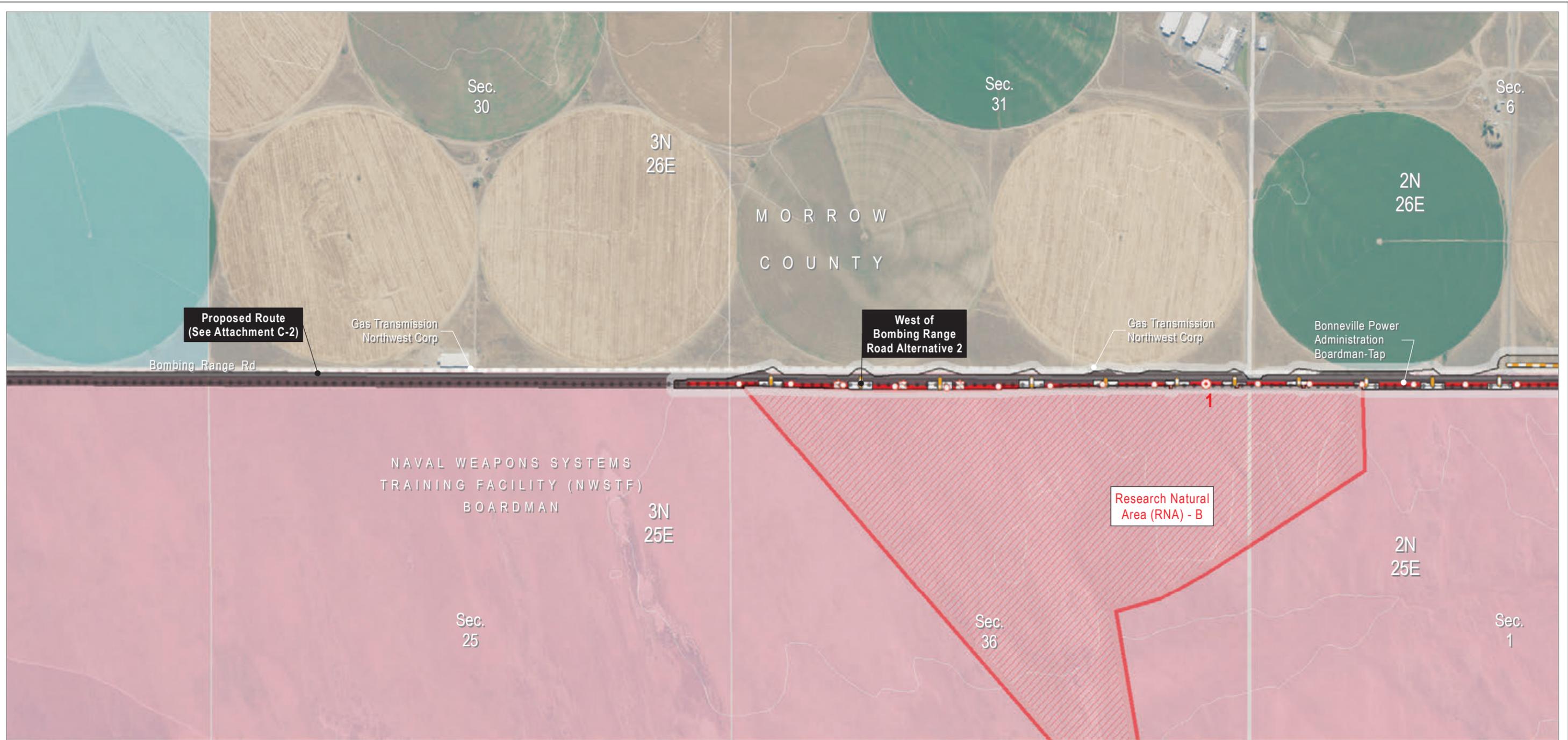
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|---|---|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Proposed Route Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Pulling and Tensioning Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> Existing Road, Substantial Modification, 21-70% Improvements New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Oregon National Historic Trail (NHT) Pipeline | <p>Other Road</p> <ul style="list-style-type: none"> Oregon NHT Intact Segment (1/4-mile buffer) Protected Area (EFSC) <p>Land Status</p> <ul style="list-style-type: none"> Military Reservation or Corps of Engineers Private |
|---|---|--|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

West of Bombing Range Road Alternative 1
Morrow County



- | | | |
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Proposed Route Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> Mile Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> Structure Work Area Structure Work Area (Removal Only) | <p>Access</p> <ul style="list-style-type: none"> New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> 100-foot Contours Existing Transmission Lines Pipeline Other Road Protected Area (EFSC) | <p>Land Status</p> <ul style="list-style-type: none"> Military Reservation or Corps of Engineers Private State or Local |
|--|--|--|

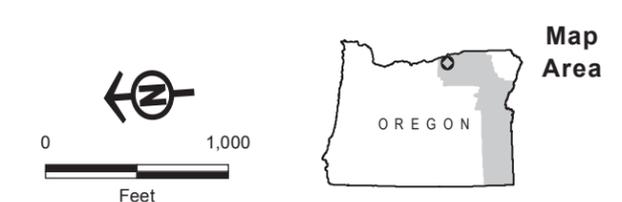
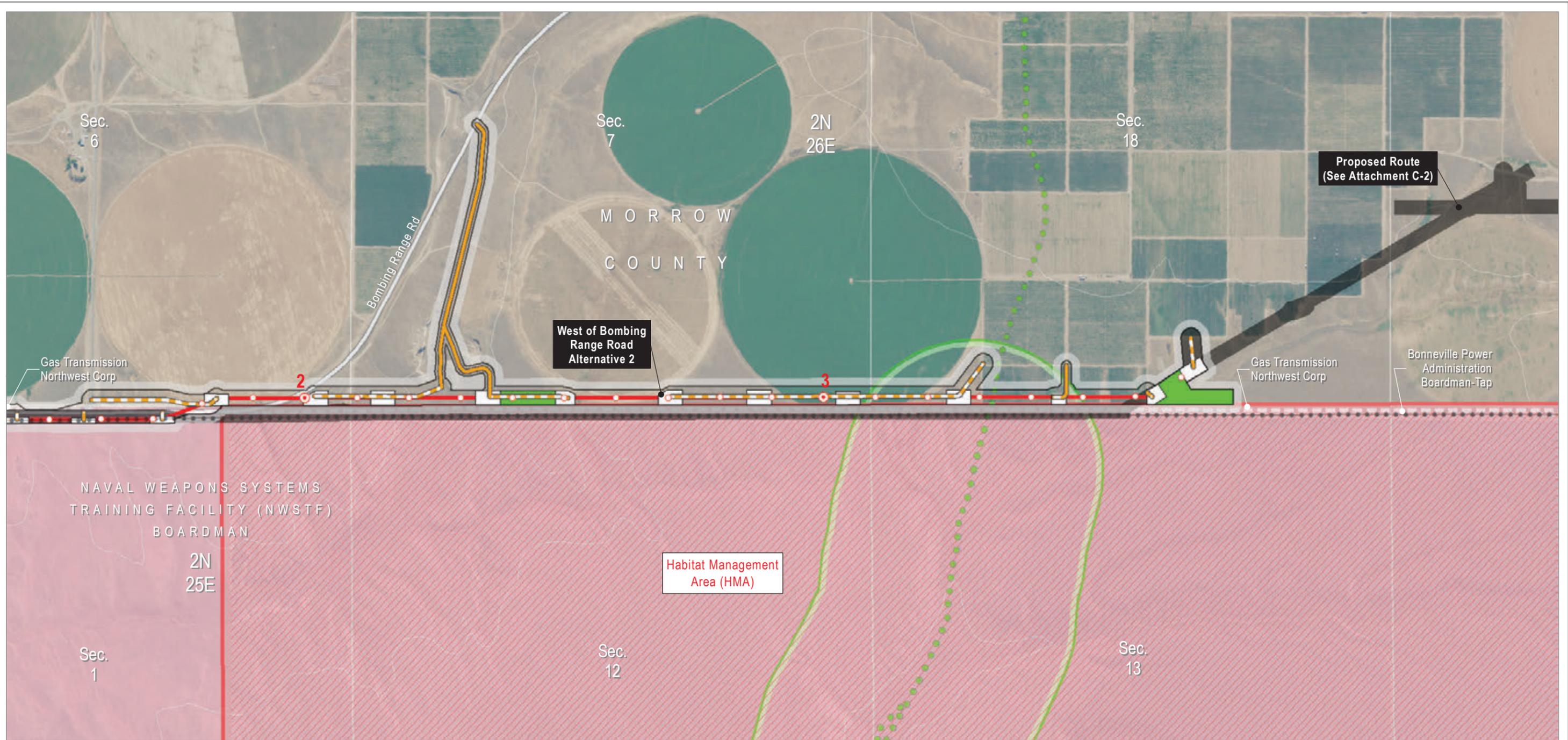
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

West of Bombing Range Road Alternative 2
Morrow County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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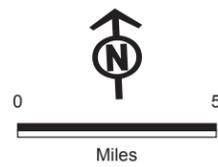
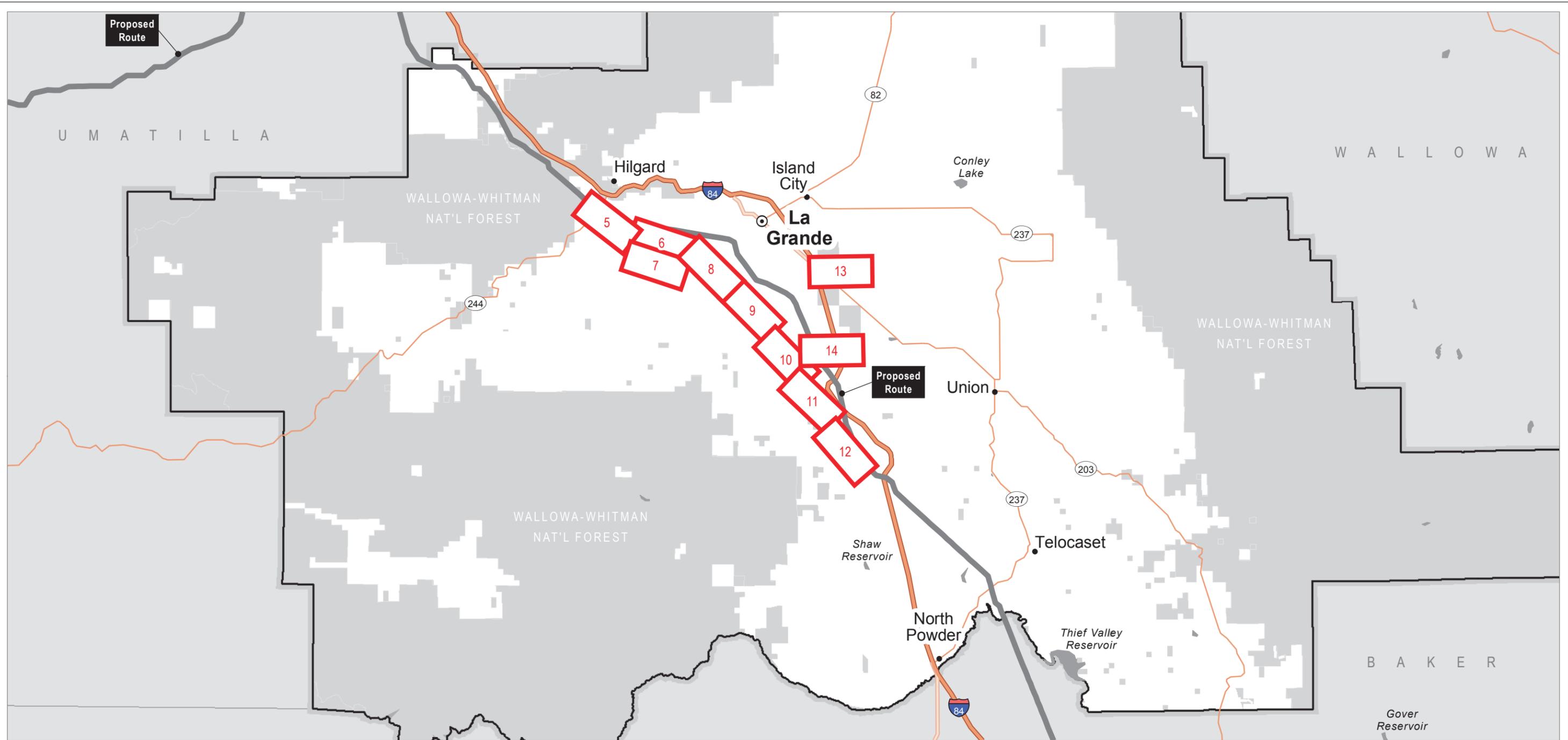
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|---|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> □ Site Boundary ▬ Proposed Route ▬ Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> ○ Mile ○ Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> ■ Pulling and Tensioning □ Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> ▬ Existing Road, Substantial Modification, 21-70% Improvements ▬ New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> ~ 100-foot Contours ● Existing Transmission Lines ● Oregon National Historic Trail (NHT) ▬ Pipeline | <p>Other Road</p> <ul style="list-style-type: none"> ▬ Oregon NHT Intact Segment (1/4-mile buffer) ▬ Protected Area (EFSC) <p>Land Status</p> <ul style="list-style-type: none"> ■ Military Reservation or Corps of Engineers □ Private |
|---|---|---|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

West of Bombing Range Road Alternative 2
Morrow County



Map Area

Map Index
 [Red Box] Location Map (Map #)

Source(s): BLM, IPC, Esri
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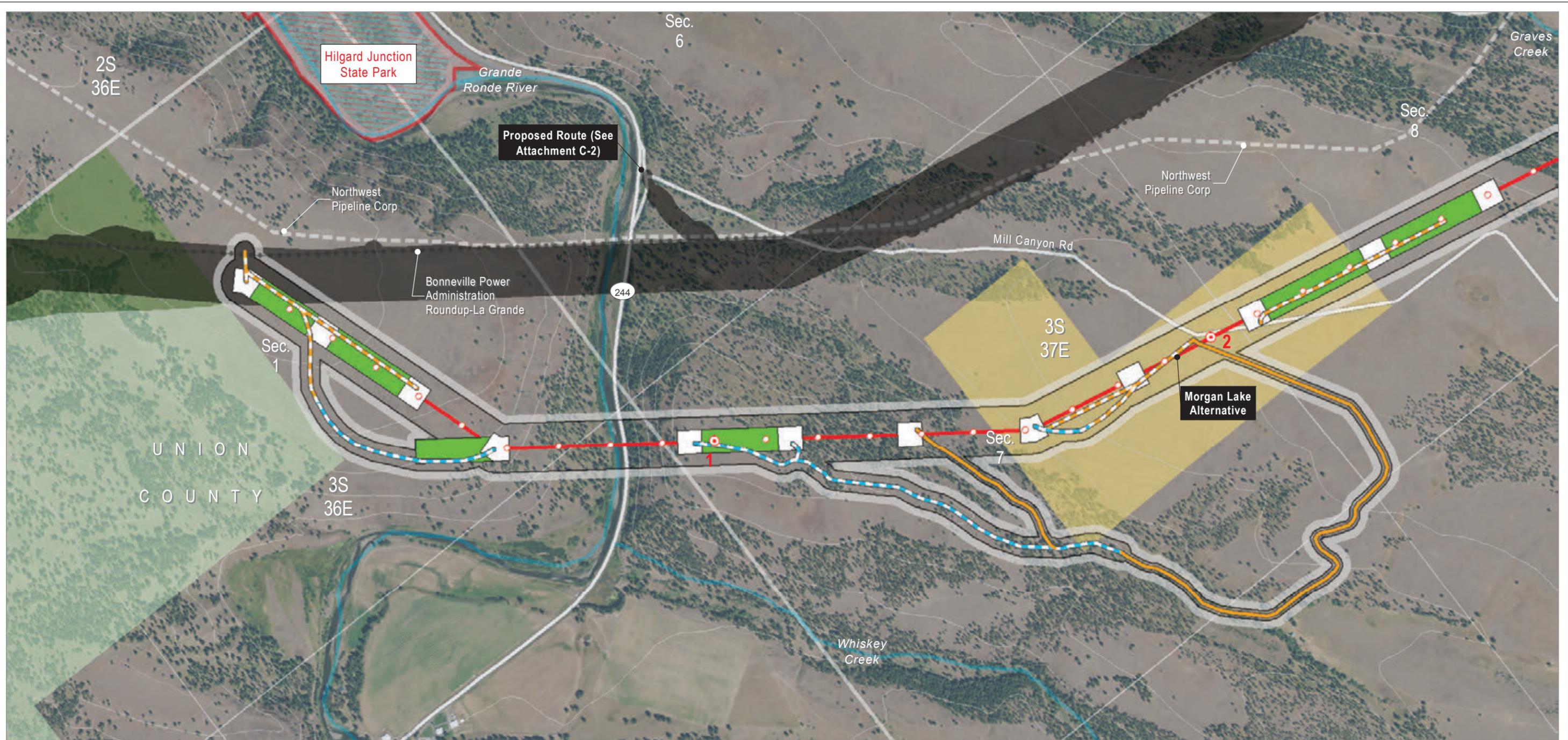
Boardman to Hemingway Transmission Line Project
 Application for Site Certificate



**Attachment C-3
 Alternative Location Maps**

Morgan Lake Alternative
 Union County

Map Index



Project Features

- Site Boundary
- Proposed Route
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed
- New Road, Primitive

Important Siting Constraints and Other Features

- 100-foot Contours
- Existing Transmission Lines
- Pipeline
- Other Road

Stream

- Wallowa-Whitman NF Utility Corridor (MA-17)
- Protected Area (EFSC)

Land Status

- Bureau of Land Management
- Forest Service
- Private
- State or Local Parks and Recreation or Wildlife

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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- Project Features**
- Site Boundary
 - Proposed Route
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- Existing Road, Substantial Modification, 21-70% Improvements
 - Existing Road, Substantial Modification, 71-100% Improvements
 - New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Existing Transmission Lines**
- Existing Transmission Lines
 - Pipeline
 - Other Road
- Land Status**
- Private
- Stream**
- Stream

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Existing Road, Substantial Modification, 71-100% Improvements
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Communication Station
 - Pulling and Tensioning
 - Structure Work Area
- Access**
- New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Pipeline
 - Other Road
 - Stream
- Land Status**
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County



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|---|--|--|
| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Other Road Stream Glass Hill Rebarrow Forest Protected Area (EFSC) | <p>Land Status</p> <ul style="list-style-type: none"> Private State or Local Parks and Recreation or Wildlife |
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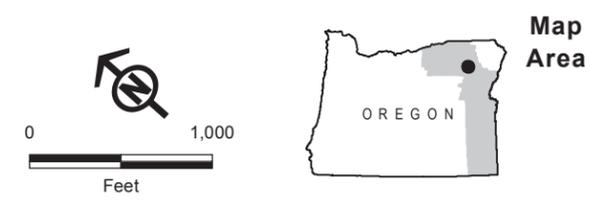
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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| <p>Project Features</p> <ul style="list-style-type: none"> Site Boundary Transmission Centerline Mileposts Mile Tenth-mile Work Areas Pulling and Tensioning Structure Work Area Access Existing Road, Substantial Modification, 21-70% Improvements | <ul style="list-style-type: none"> Existing Road, Substantial Modification, 71-100% Improvements New Road, Bladed New Road, Primitive Important Siting Constraints and Other Features 100-foot Contours Other Road Stream Glass Hill Rebarrow Forest Protected Area (EFSC) | <p>Land Status</p> <ul style="list-style-type: none"> Forest Service Private State or Local Parks and Recreation or Wildlife |
|---|--|---|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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|---|---|---|
| <p>Project Features</p> <ul style="list-style-type: none"> □ Site Boundary ▬ Proposed Route — Transmission Centerline <p>Mileposts</p> <ul style="list-style-type: none"> ● Mile ○ Tenth-mile <p>Work Areas</p> <ul style="list-style-type: none"> ■ Pulling and Tensioning □ Structure Work Area | <p>Access</p> <ul style="list-style-type: none"> — Existing Road, Substantial Modification, 21-70% Improvements — New Road, Bladed — New Road, Primitive <p>Important Siting Constraints and Other Features</p> <ul style="list-style-type: none"> ~ 100-foot Contours ● Existing Transmission Lines — Interstate — Other Road | <p>Stream</p> <ul style="list-style-type: none"> ~ Stream <p>Land Status</p> <ul style="list-style-type: none"> ■ Forest Service □ Private |
|---|---|---|

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
 - Proposed Route
 - Transmission Centerline
- Mileposts**
- Mile
 - Tenth-mile
- Work Areas**
- Pulling and Tensioning
 - Structure Work Area
- Access**
- New Road, Bladed
 - New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Existing Transmission Lines
 - Other Road
- Land Status**
- Private

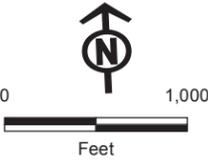
Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County

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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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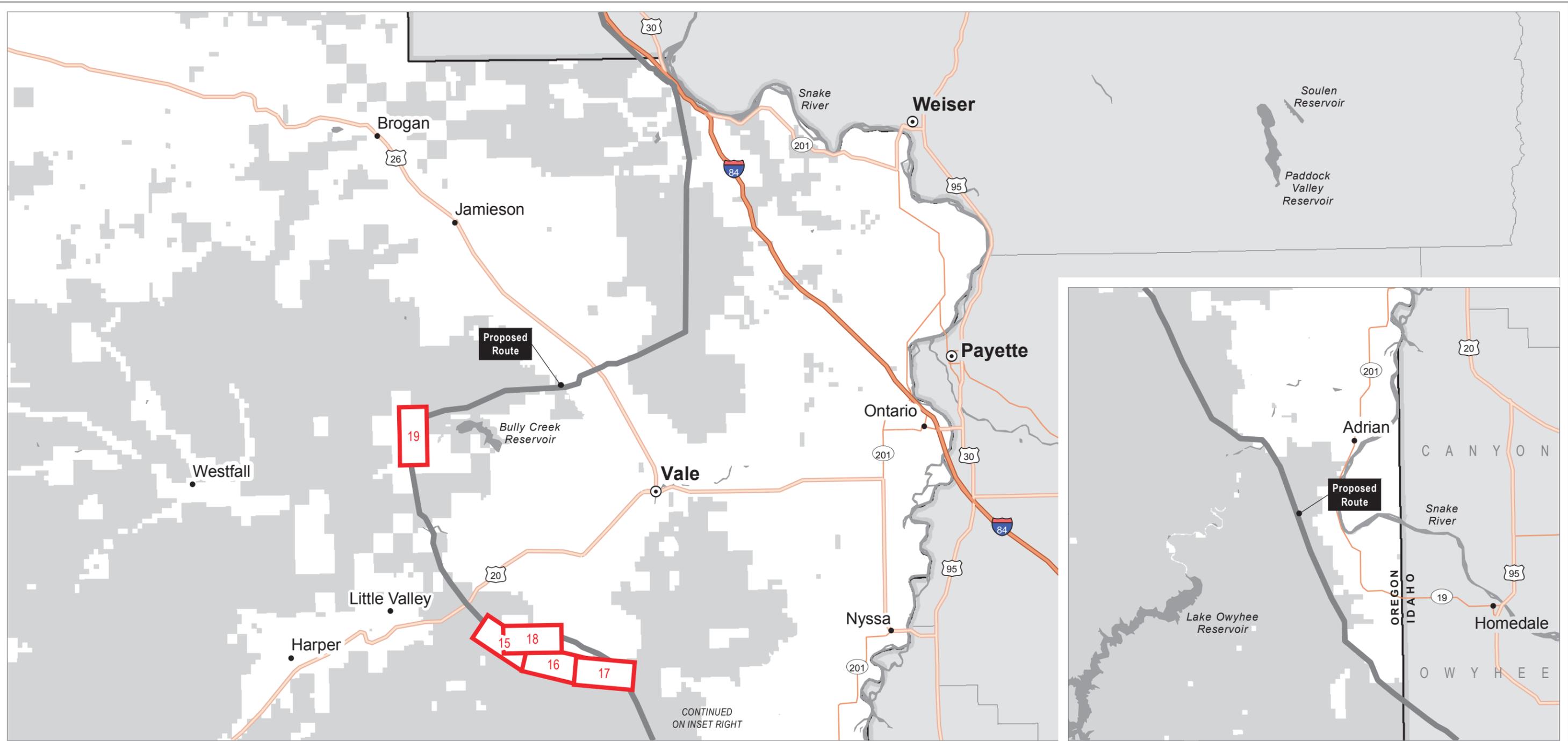
- Project Features**
- Site Boundary
 - Proposed Route
 - Work Areas**
 - Multi-Use Area
 - Important Siting Constraints and Other Features**
 - 100-foot Contours
 - Existing Transmission Lines
 - Oregon National Historic Trail (NHT)
 - Pipeline
 - Interstate
 - Other Road
 - Stream
 - Oregon NHT Intact Segment (1/4-mile buffer)
 - Protected Area (EFSC)
 - Land Status**
 - Private
 - State or Local Parks and Recreation or Wildlife

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

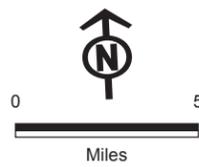


**Attachment C-3
Alternative Location Maps**

Morgan Lake Alternative
Union County



CONTINUED ON INSET RIGHT



Map Index
 [Red Box] Location Map (Map #)

Source(s): BLM, IPC, Esri

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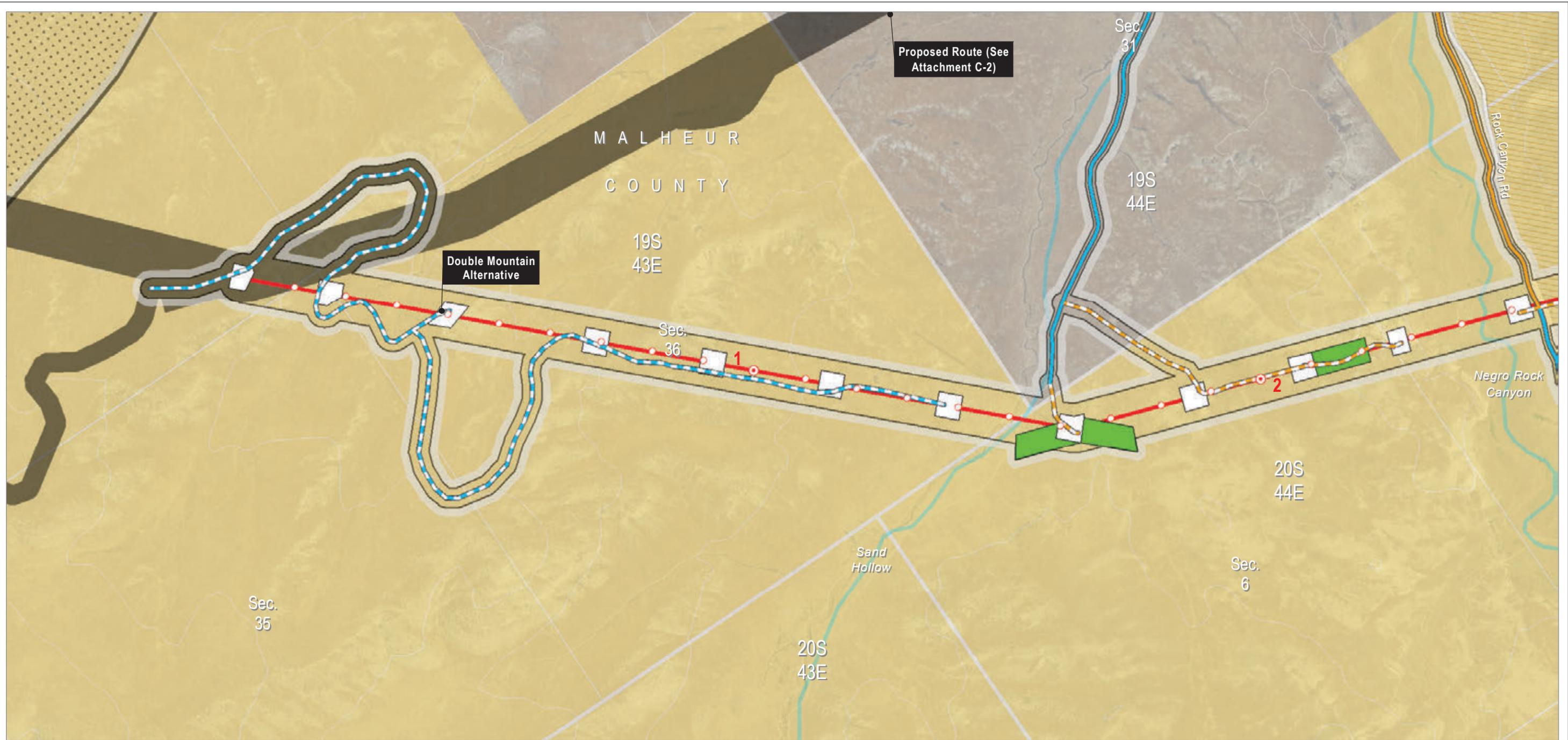
Boardman to Hemingway Transmission Line Project
 Application for Site Certificate



**Attachment C-3
 Alternative Location Maps**

Double Mountain Alternative
 Malheur County

Map Index



Project Features

- Site Boundary (Alternative Route)
- Site Boundary (Proposed Route)
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road

Stream

- Stream
- VRM 3
- Wilderness Characteristic Unit Meeting Wilderness Criteria

Land Status

- Bureau of Land Management
- Private

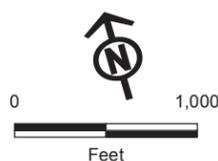
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Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Double Mountain Alternative
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Project Features

- Site Boundary (Alternative Route)
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive

Important Siting Constraints and Other Features

- 100-foot Contours
- Other Road

Stream

- Stream
- Wilderness Characteristic Unit Meeting Wilderness Criteria

Land Status

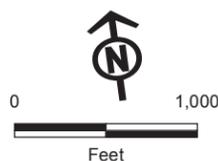
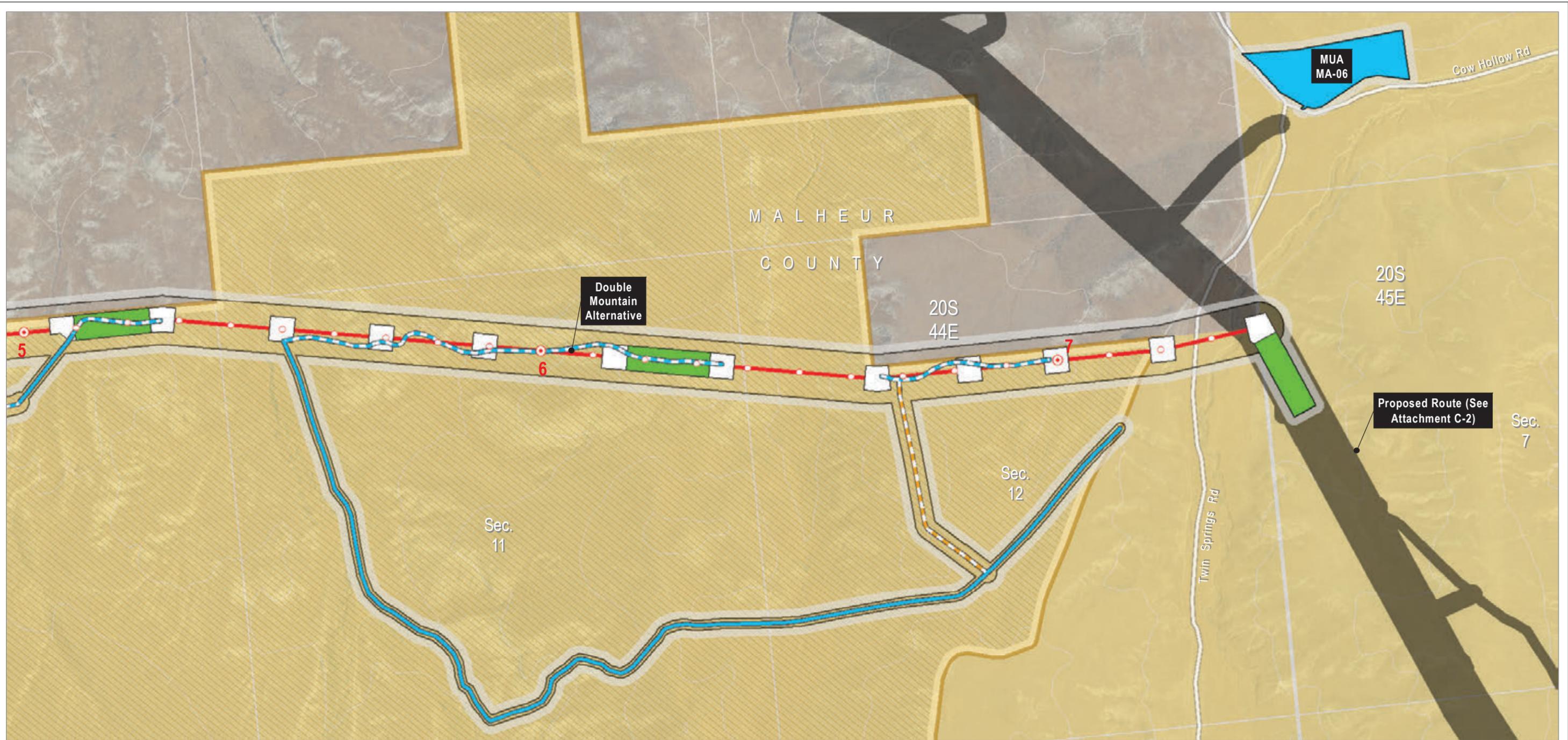
- Bureau of Land Management
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Double Mountain Alternative
Malheur County



Project Features

- Site Boundary (Alternative Route)
- Site Boundary (Proposed Route)
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road

Wilderness Characteristic Unit Meeting Wilderness Criteria

- Bureau of Land Management
- Private

Land Status

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

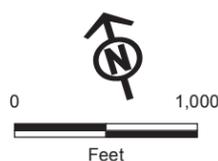
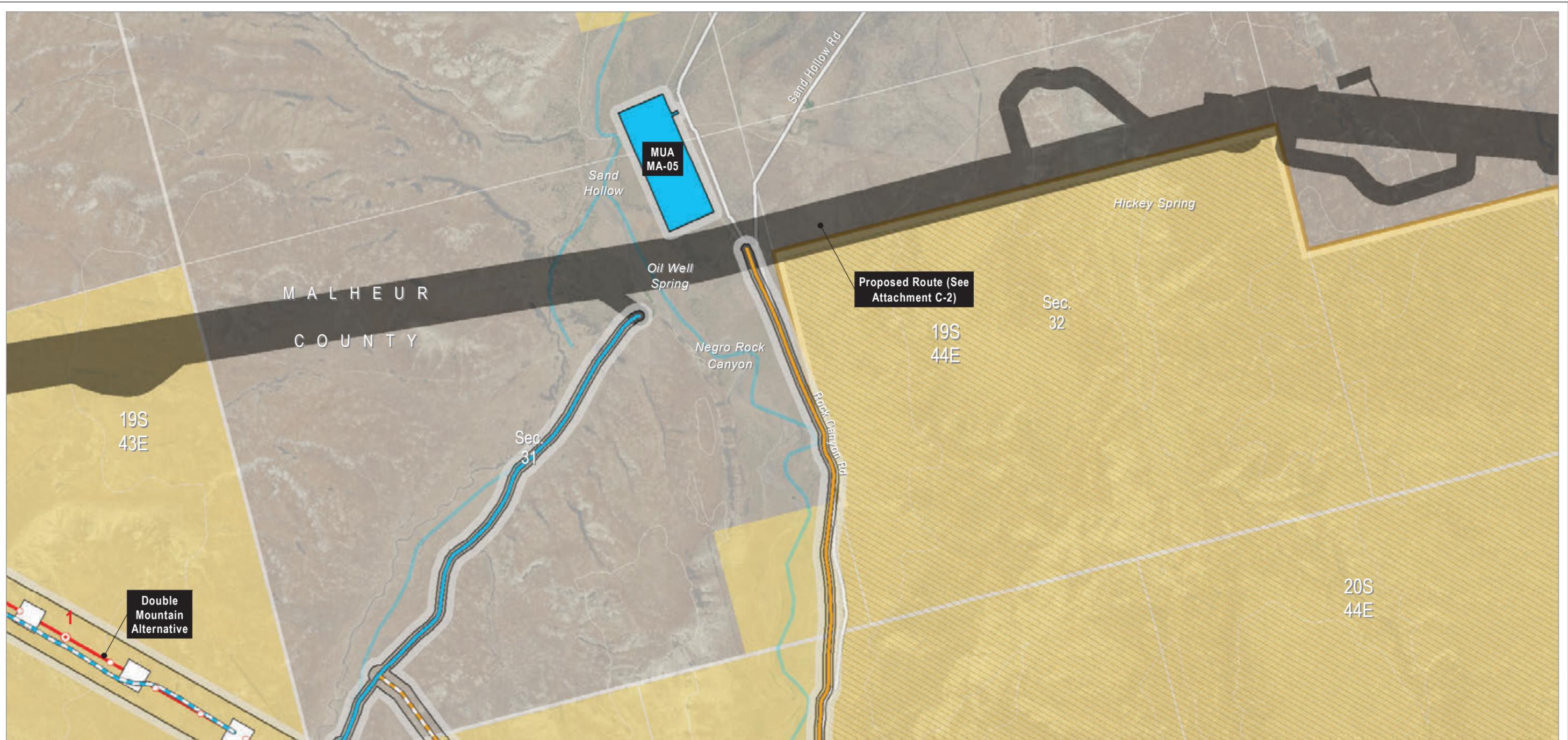


**Attachment C-3
Alternative Location Maps**

Double Mountain Alternative
Malheur County

Map 17

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Project Features

- Site Boundary (Alternative Route)
- Site Boundary (Proposed Route)
- Transmission Centerline
- Mileposts**
- Mile
- Tenth-mile
- Work Areas**
- Multi-Use Area
- Pulling and Tensioning
- Structure Work Area

Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- New Road, Primitive
- Important Siting Constraints and Other Features**
- 100-foot Contours
- Other Road

Stream

- Stream
- Wilderness Characteristic Unit Meeting Wilderness Criteria

Land Status

- Bureau of Land Management
- Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

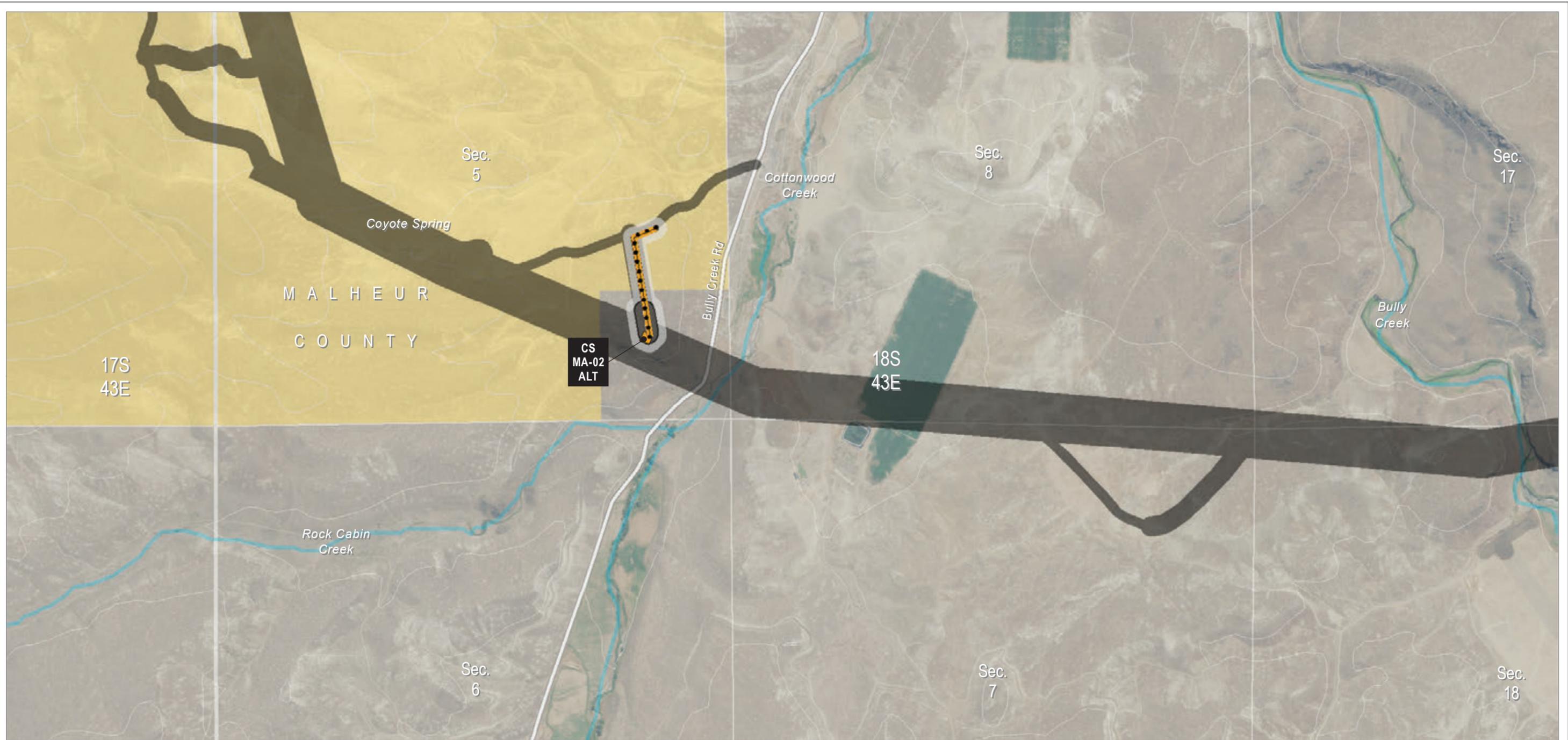


**Attachment C-3
Alternative Location Maps**

Double Mountain Alternative
Malheur County

Map 18

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo
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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary (Alternative Route)
 - Site Boundary (Proposed Route)
- Work Areas**
- Communication Station
- Access**
- New Road, Bladed
 - Distribution Line to Communication Station (IPC Service Territory Only)
- Important Siting Constraints and Other Features**
- 100-foot Contours
 - Other Road
 - Stream
- Land Status**
- Bureau of Land Management
 - Private

Boardman to Hemingway Transmission Line Project
Application for Site Certificate



**Attachment C-3
Alternative Location Maps**

Double Mountain Alternative
Malheur County