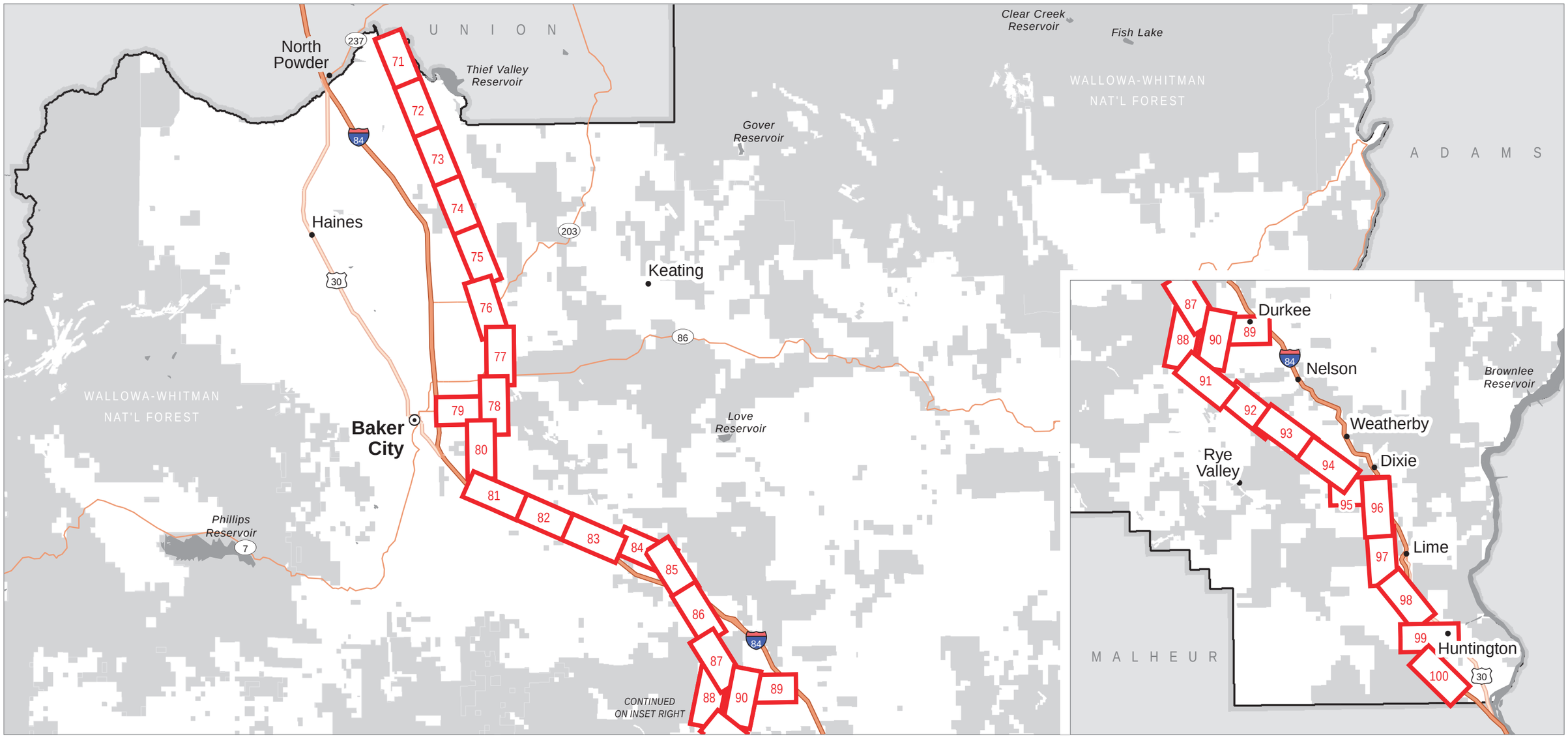

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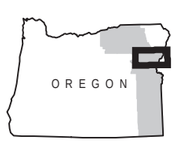
Miles

Map Area



Source(s): BLM, IPC, Esri

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Map Index

Location Map (Map #)

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IDAHO POWER
An IDACORP Company

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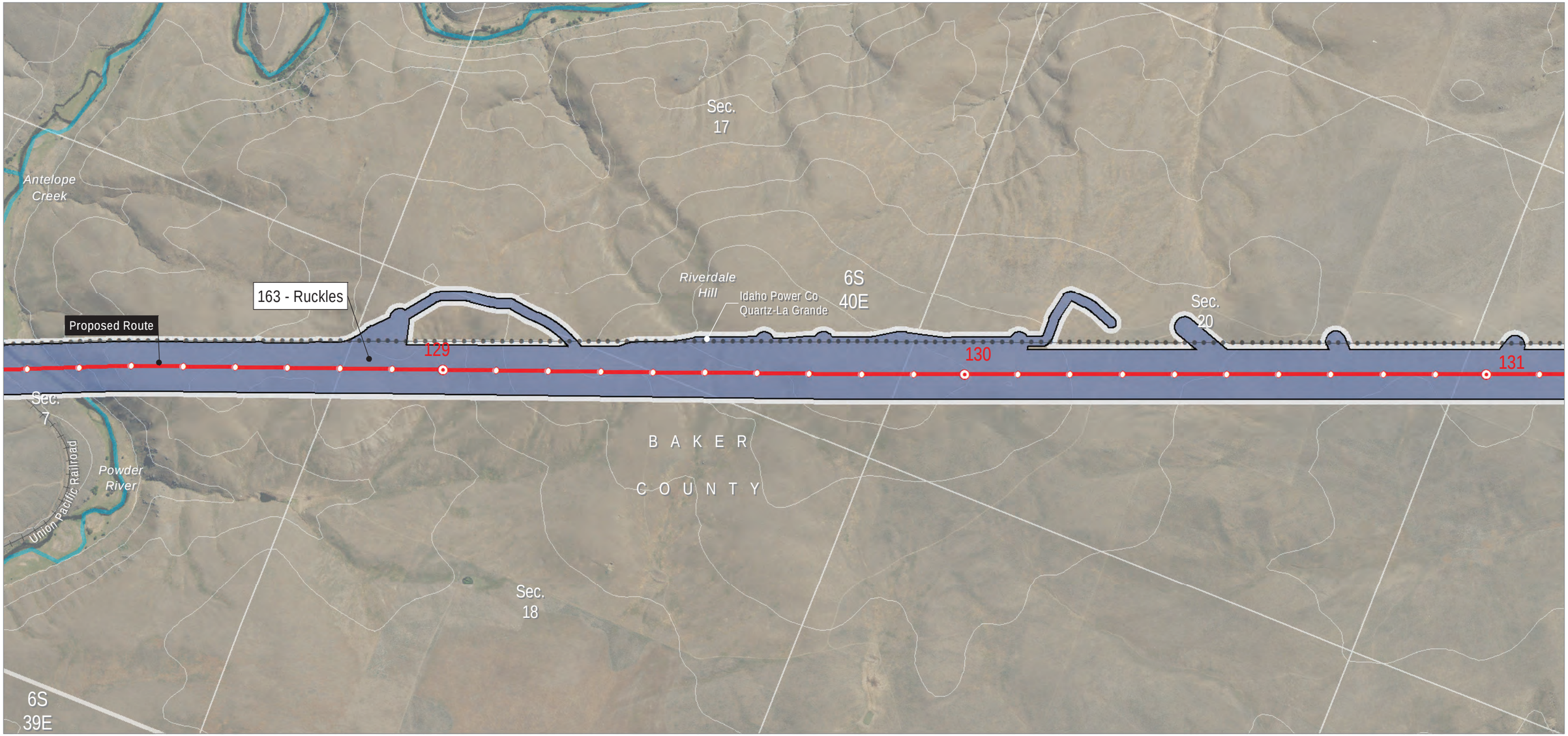

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Feet

OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Boardman to Hemingway Transmission Line Project
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IDAHO POWER
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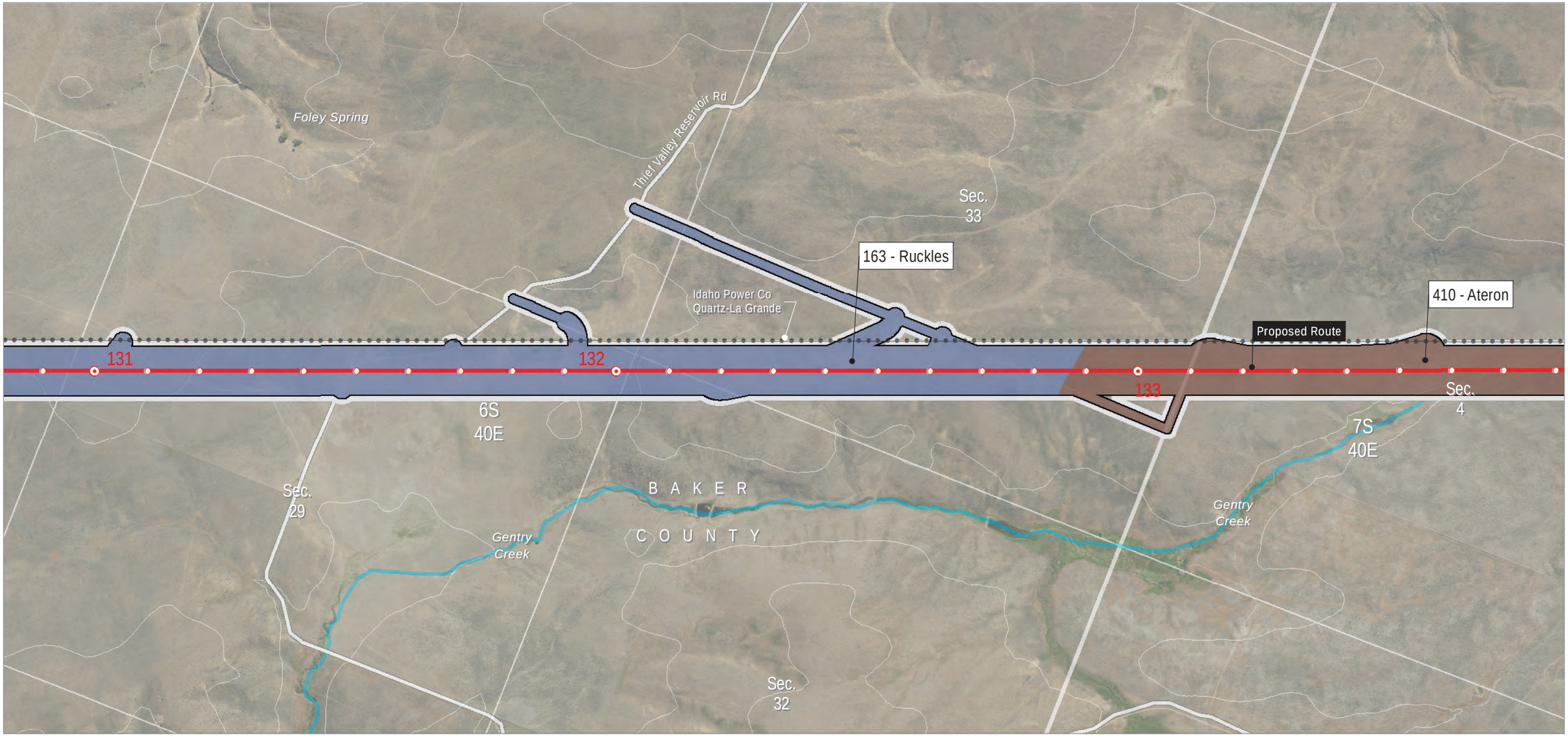
Map 71



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
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Mileposts
- Mile
- Tenth-mile

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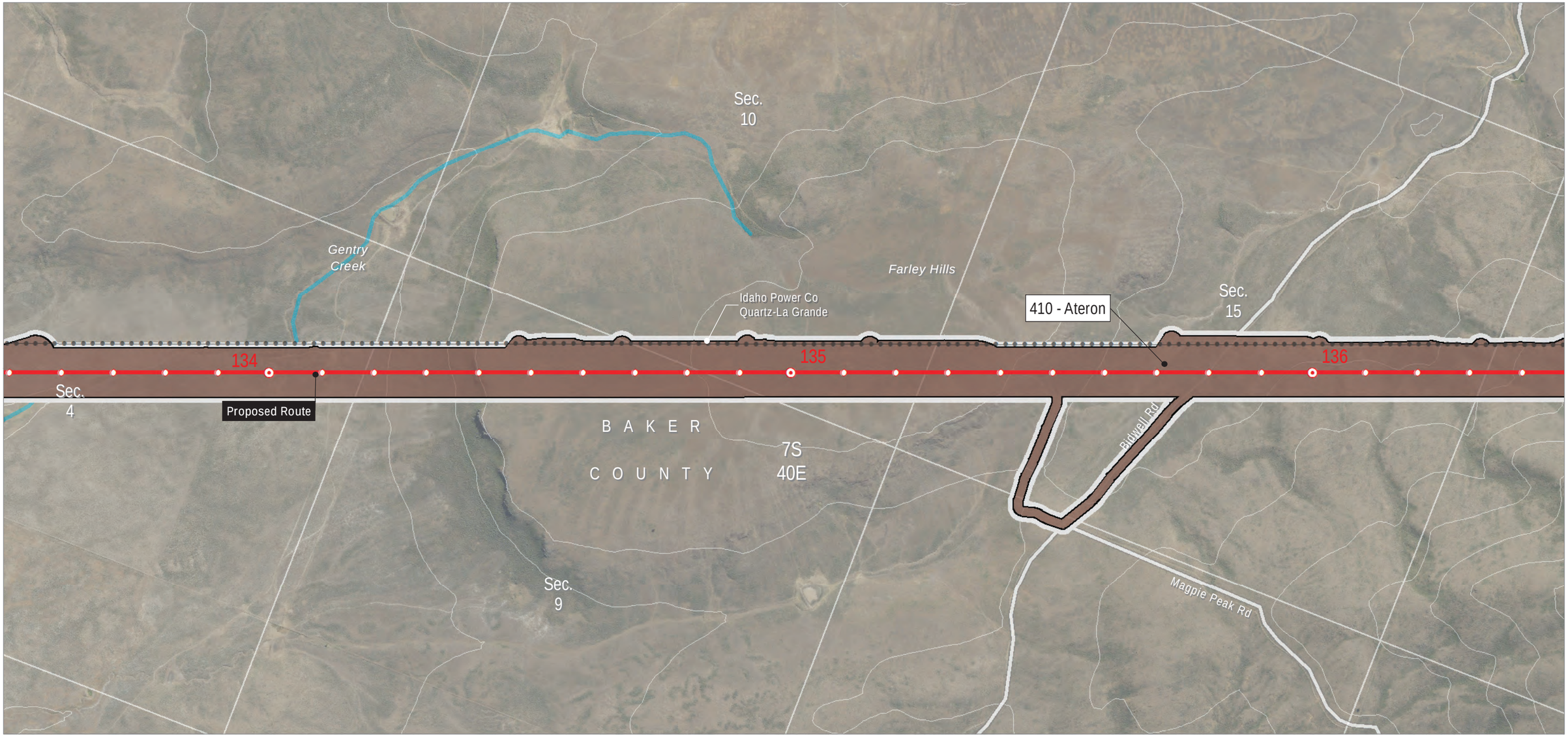
Map 72



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Application for Site Certificate

IDAHO POWER
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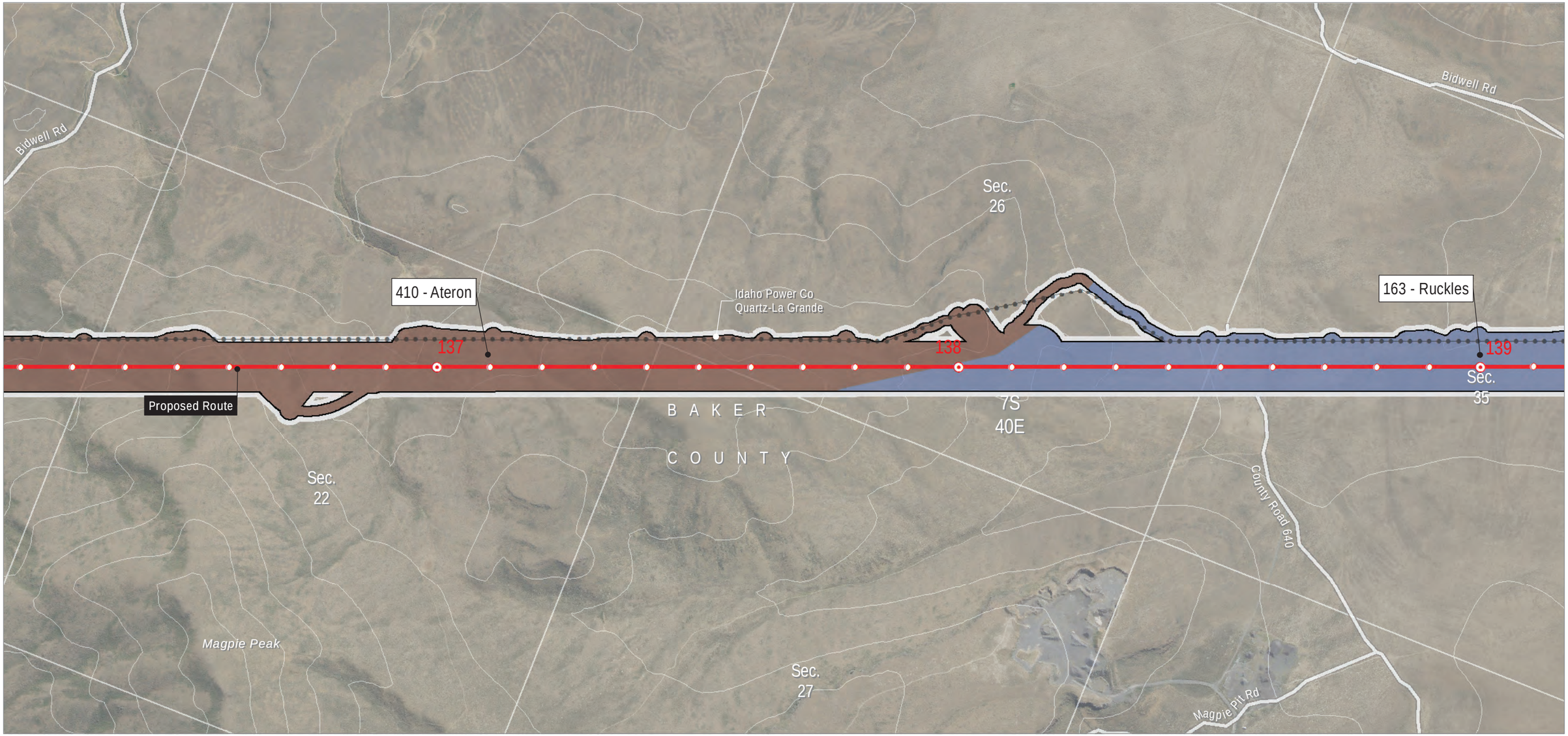
Map 73



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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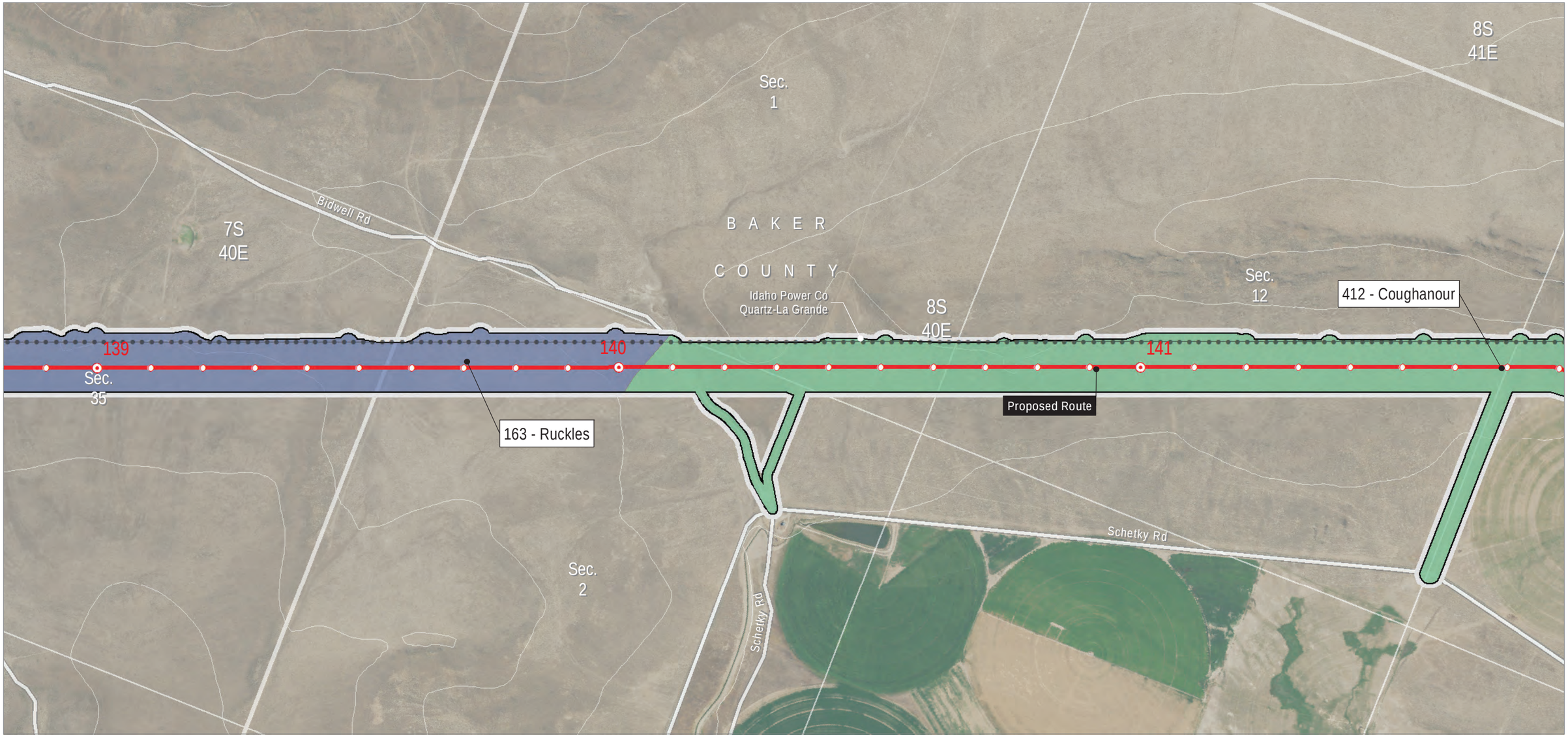
Map 74



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
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- 163 - Ruckles
- 412 - Coughanour

Project Features
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Mileposts
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- Tenth-mile

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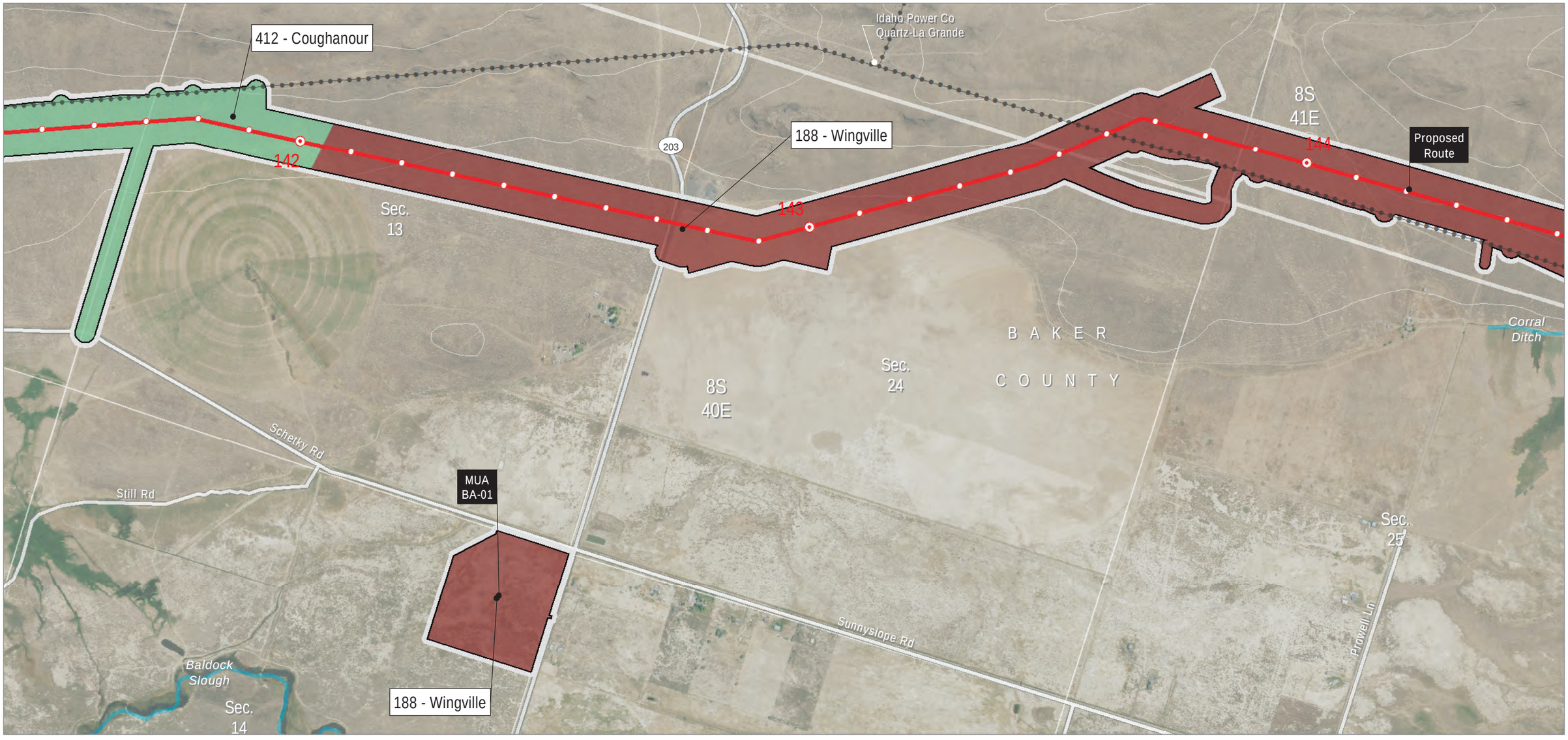
Map 75



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Map Area

OREGON

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 188 - Wingville
- 412 - Coughanour

Project Features
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Mileposts
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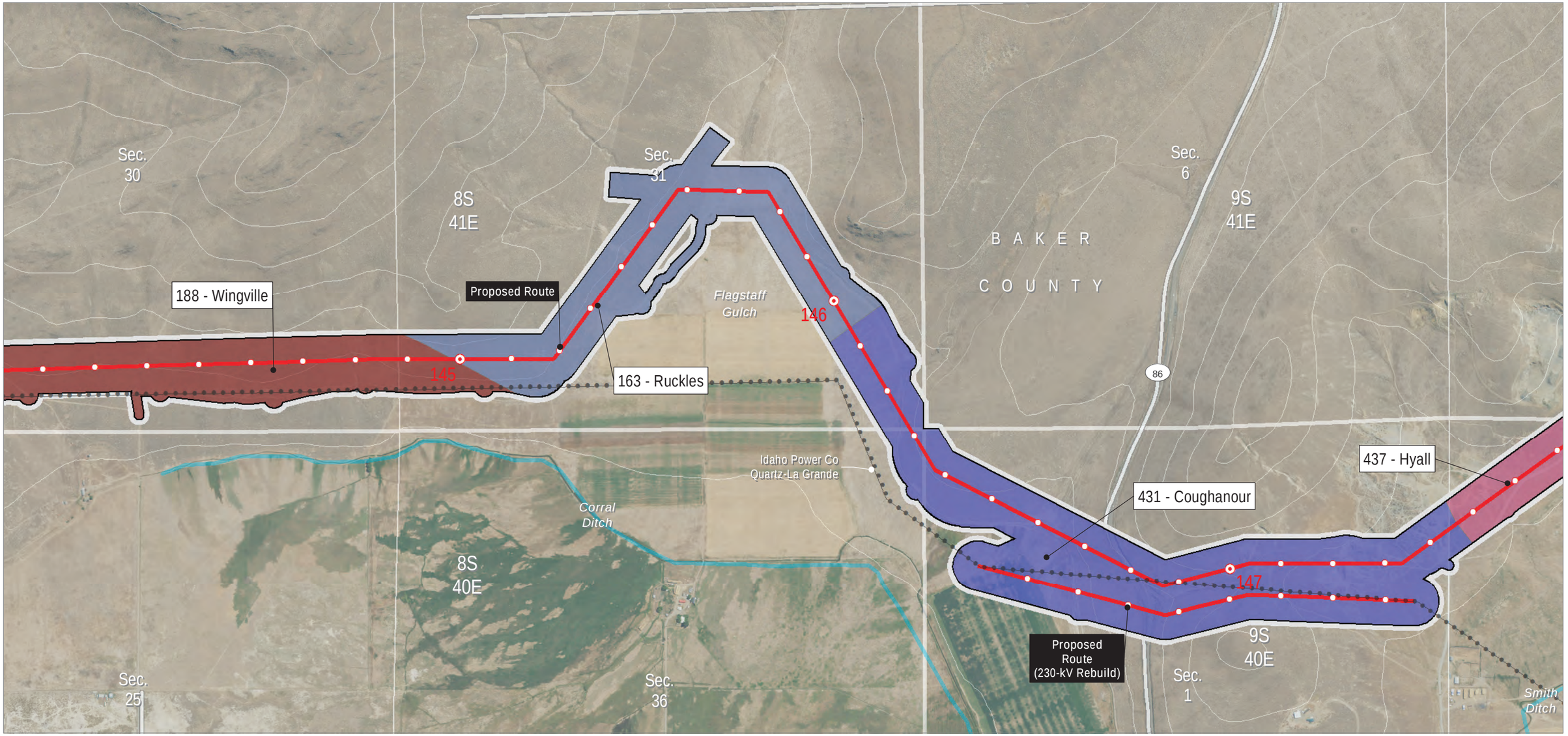
Map 76



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Map 77

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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors
- 431 - Coughanour
- 436 - Ateron
- 437 - Hyall

Project Features
- Site Boundary
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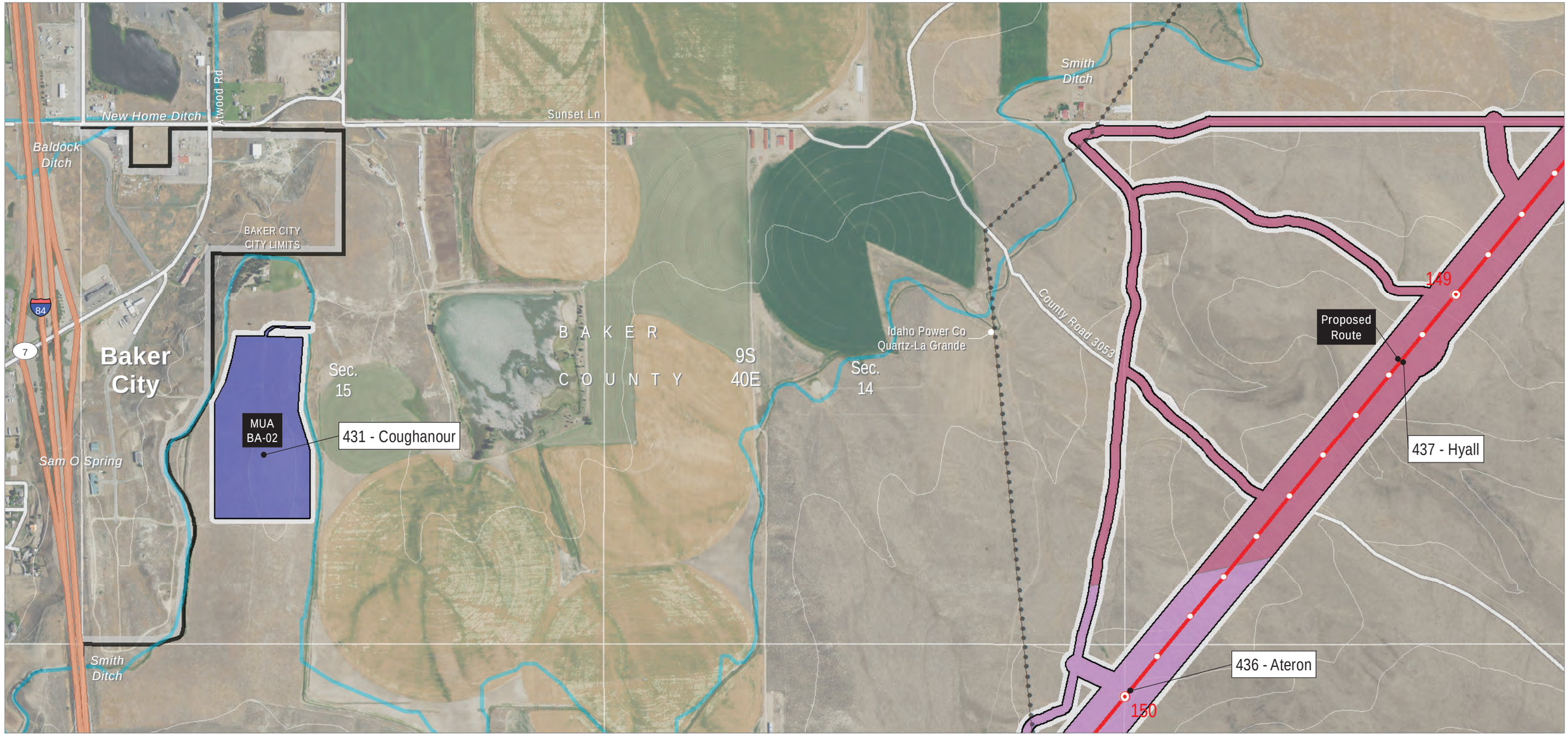
Map 78



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
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- 436 - Ateron
- 437 - Hyall

Project Features
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Boardman to Hemingway Transmission Line Project
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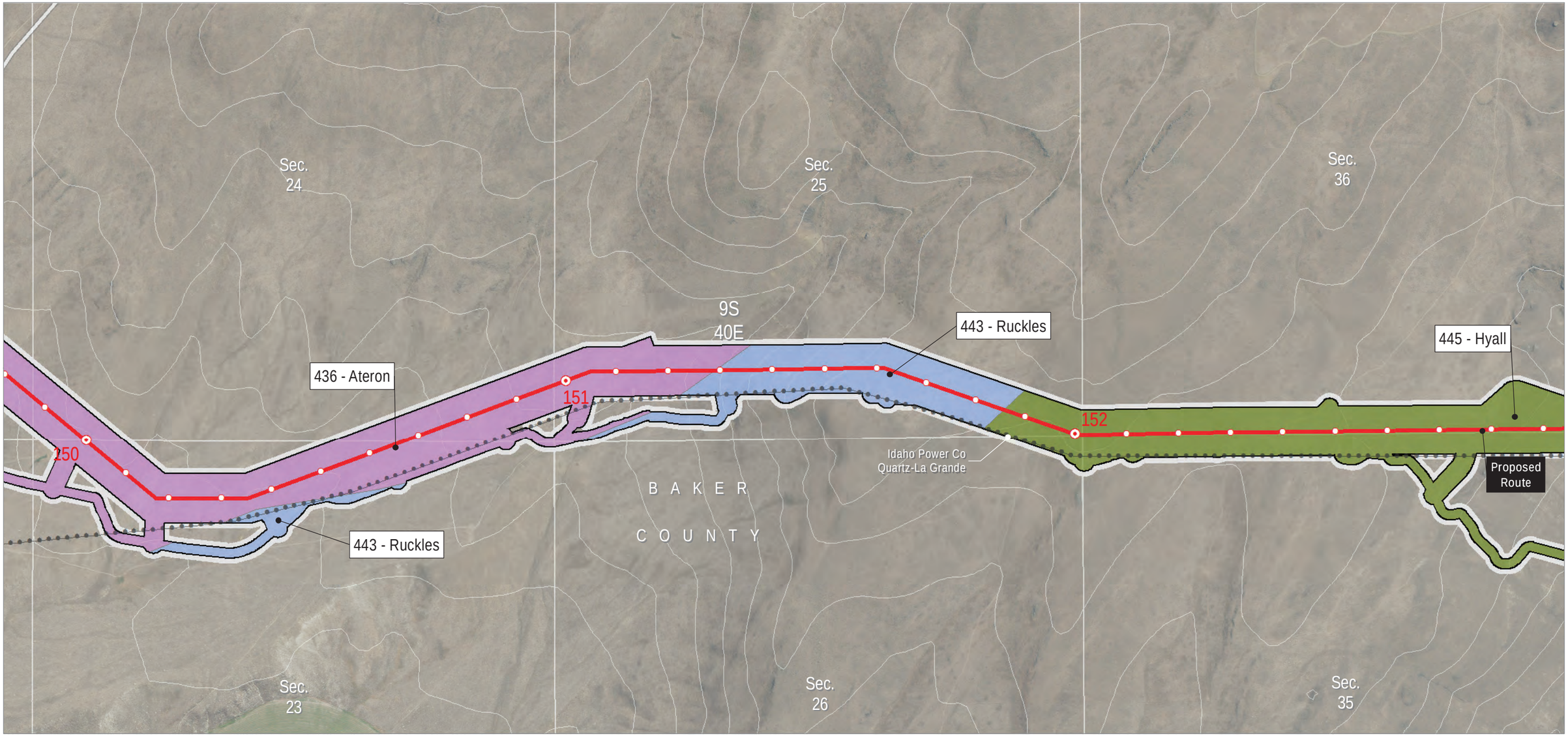
Map 79



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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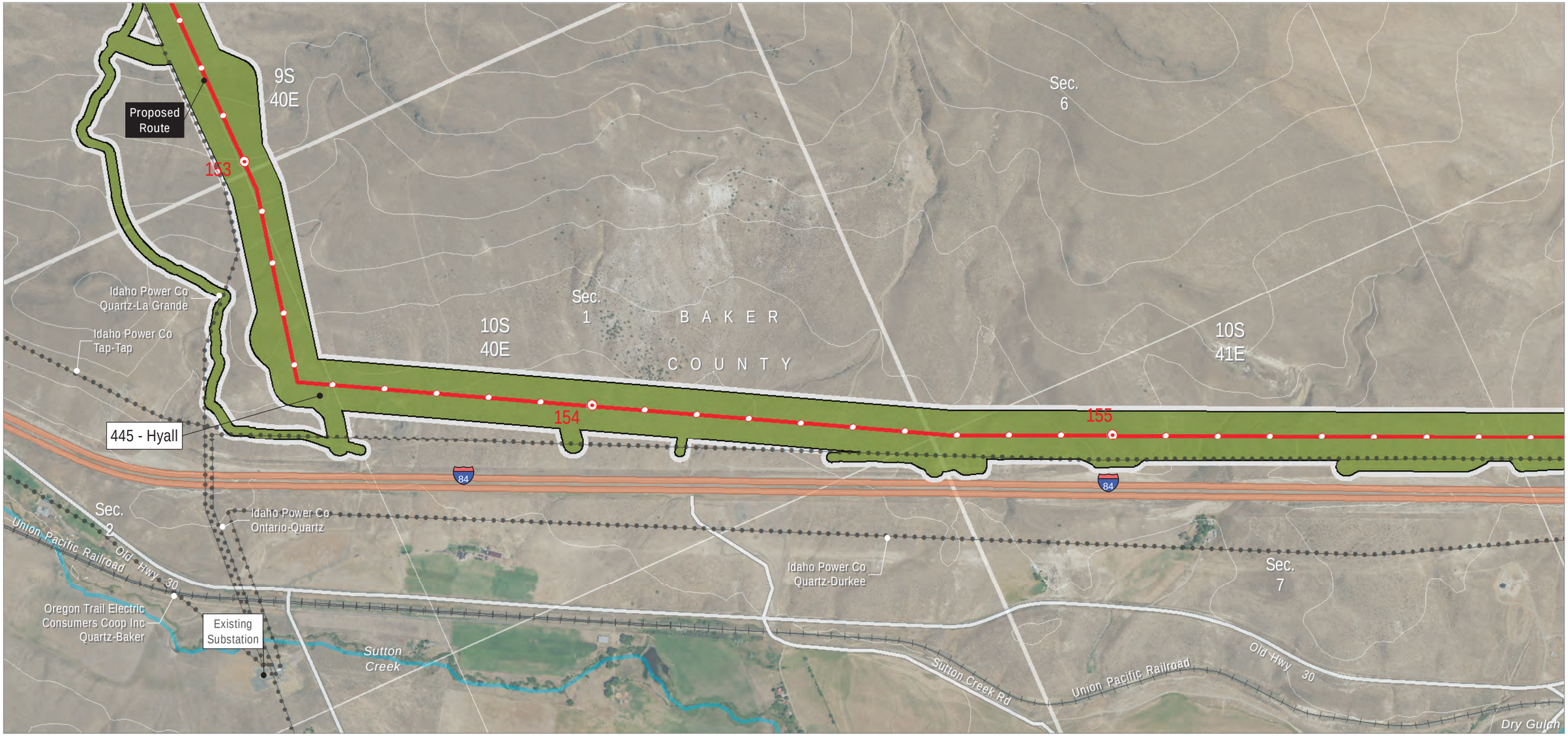
Map 80



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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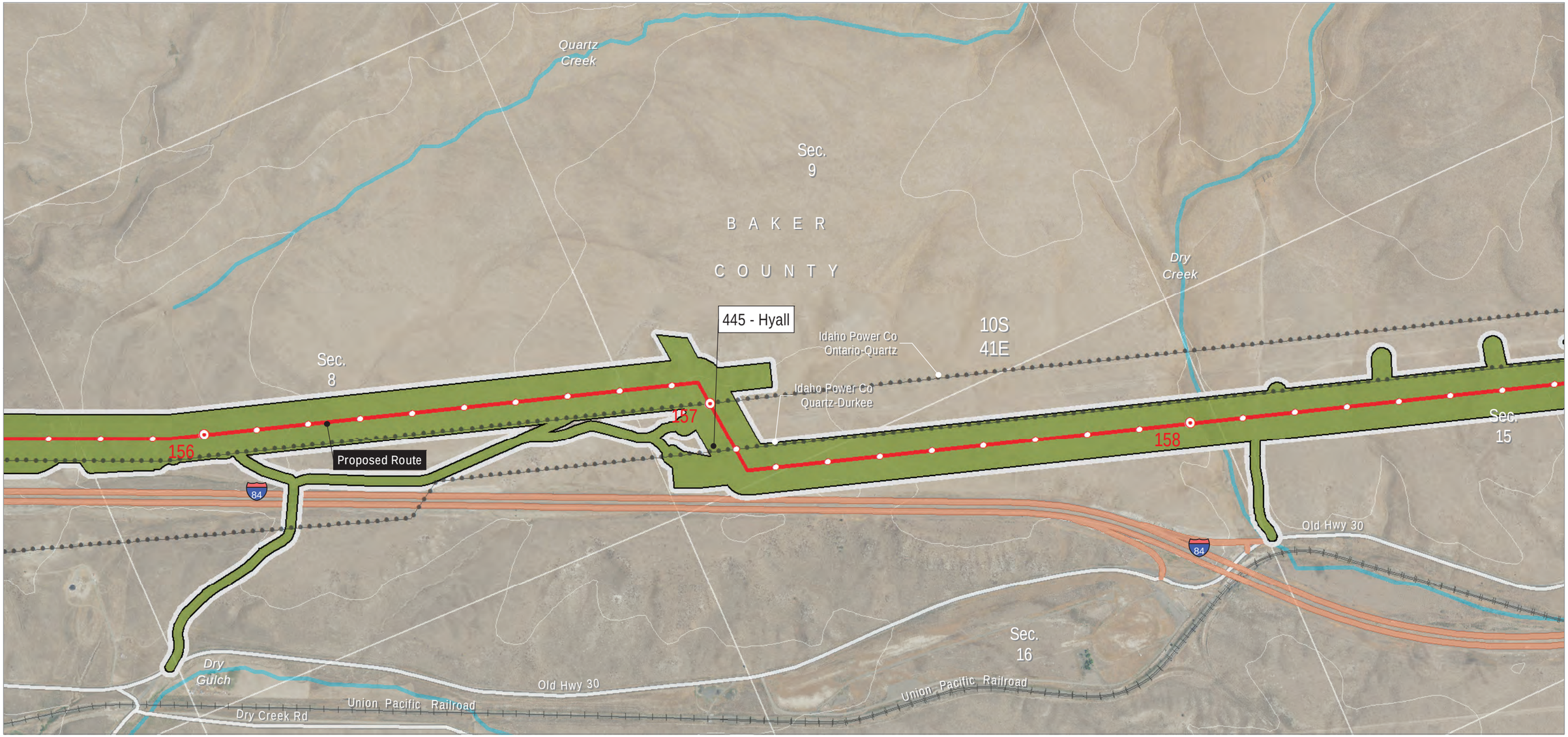
Map 81



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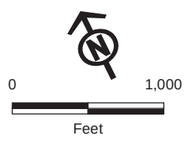

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Soil Mapping Units
STATSGO Soil Factors
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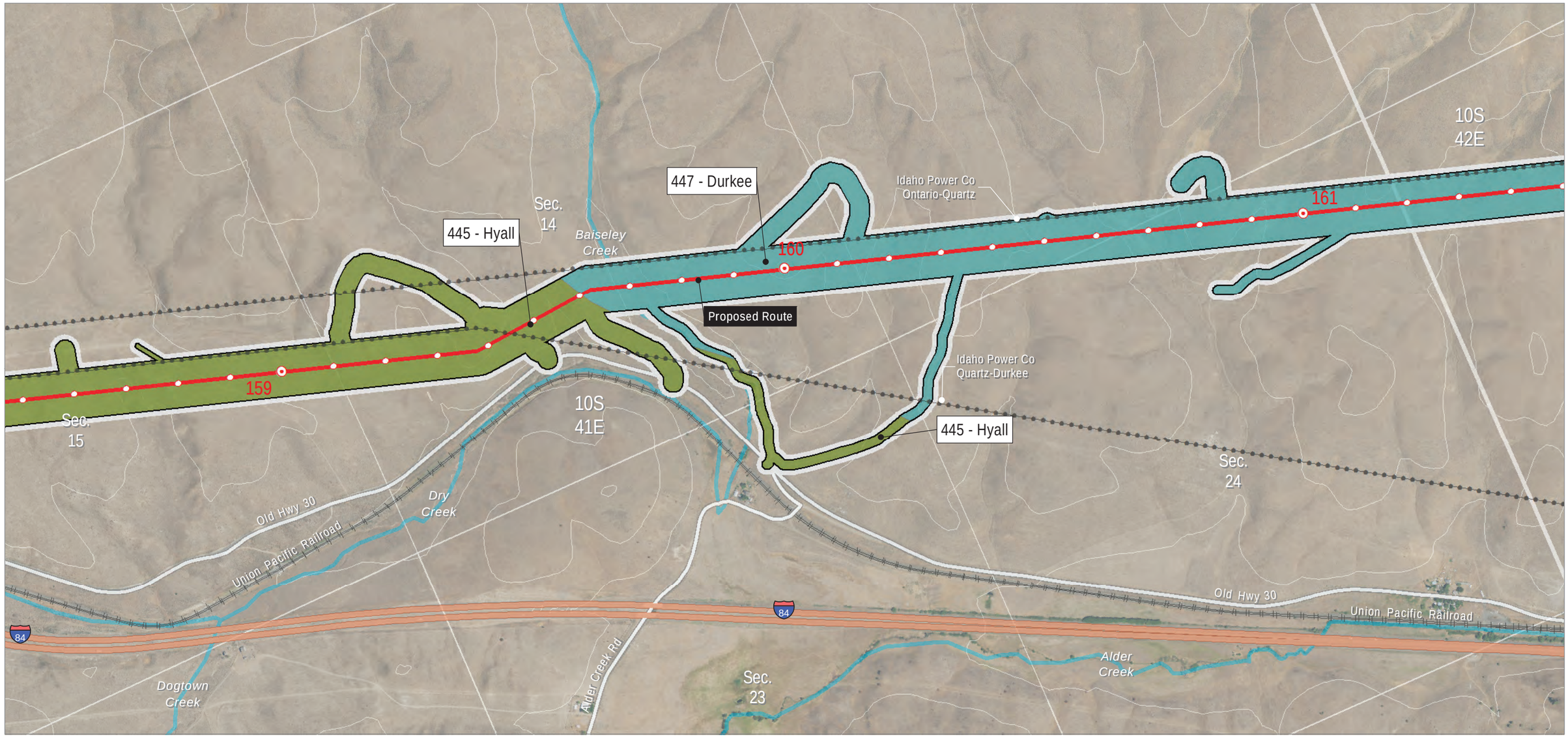
Map 82



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Map Area

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Soil Mapping Units
STATSGO Soil Factors
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Project Features
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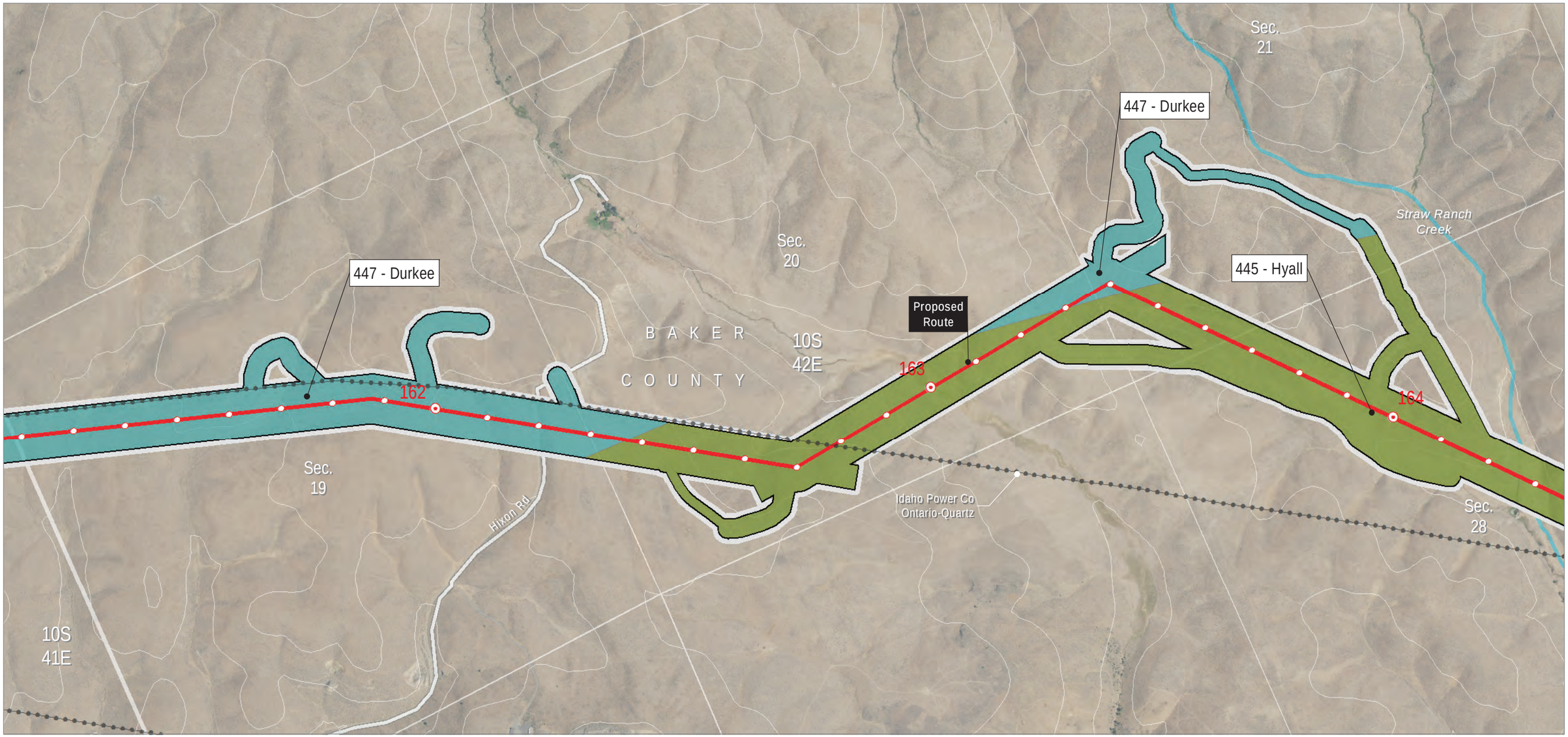
Map 83



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Map Area

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Soil Mapping Units
STATSGO Soil Factors
- 445 - Hyall
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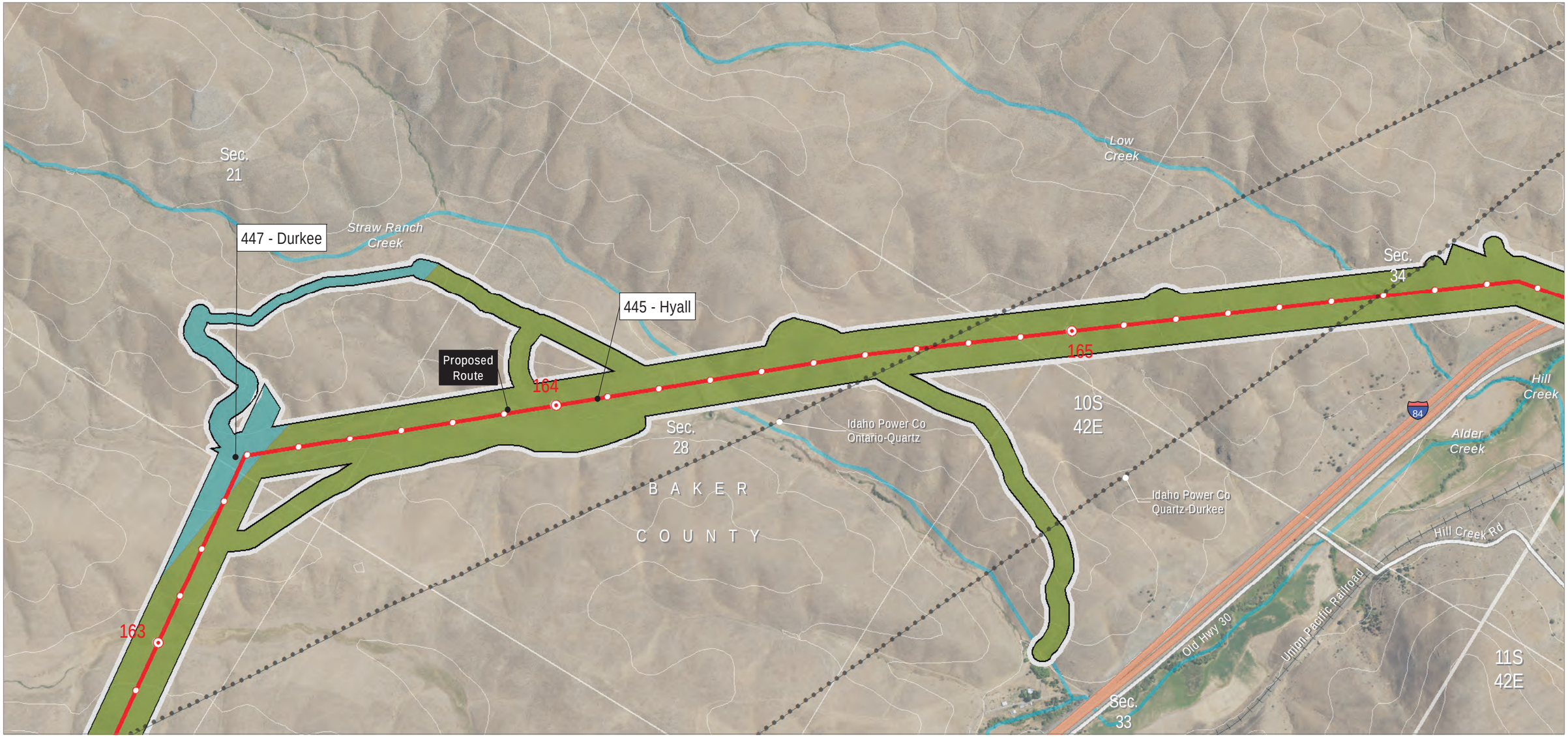
Map 84



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
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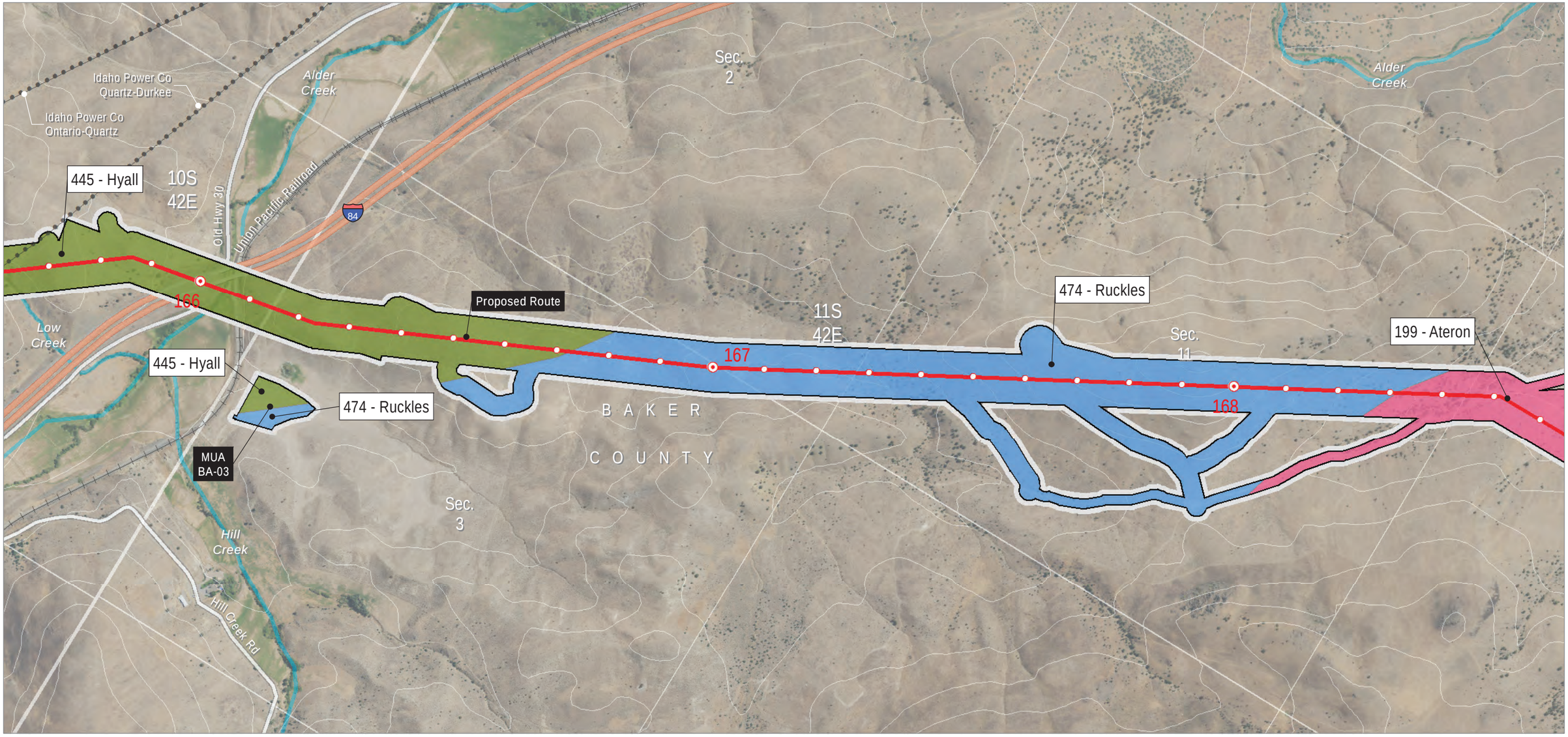
Map 85



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Map Area

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Soil Mapping Units

STATSGO Soil Factors

- 199 - Ateron
- 445 - Hyall
- 474 - Ruckles

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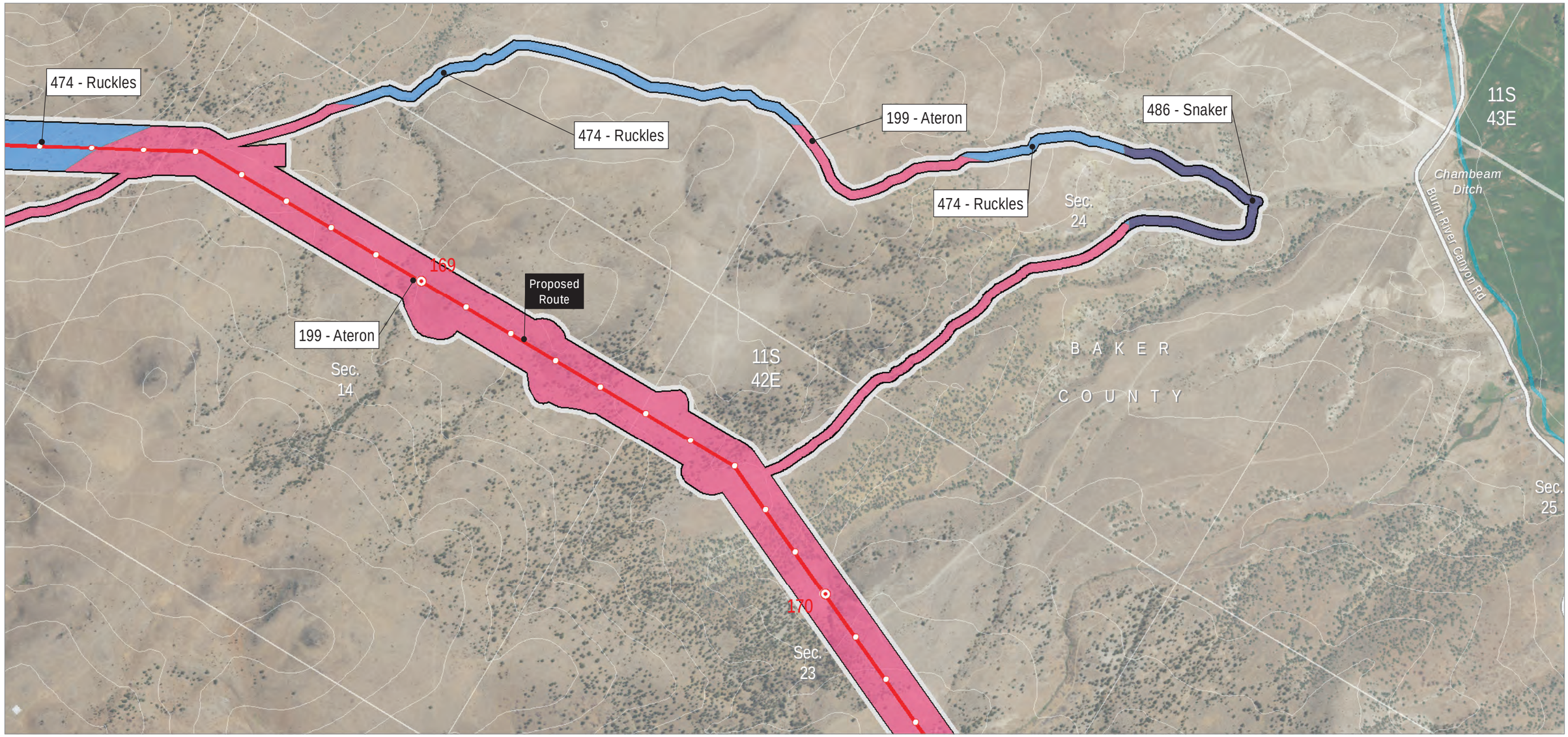
Map 86



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Map Area

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Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
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- 486 - Snaker

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- Stream

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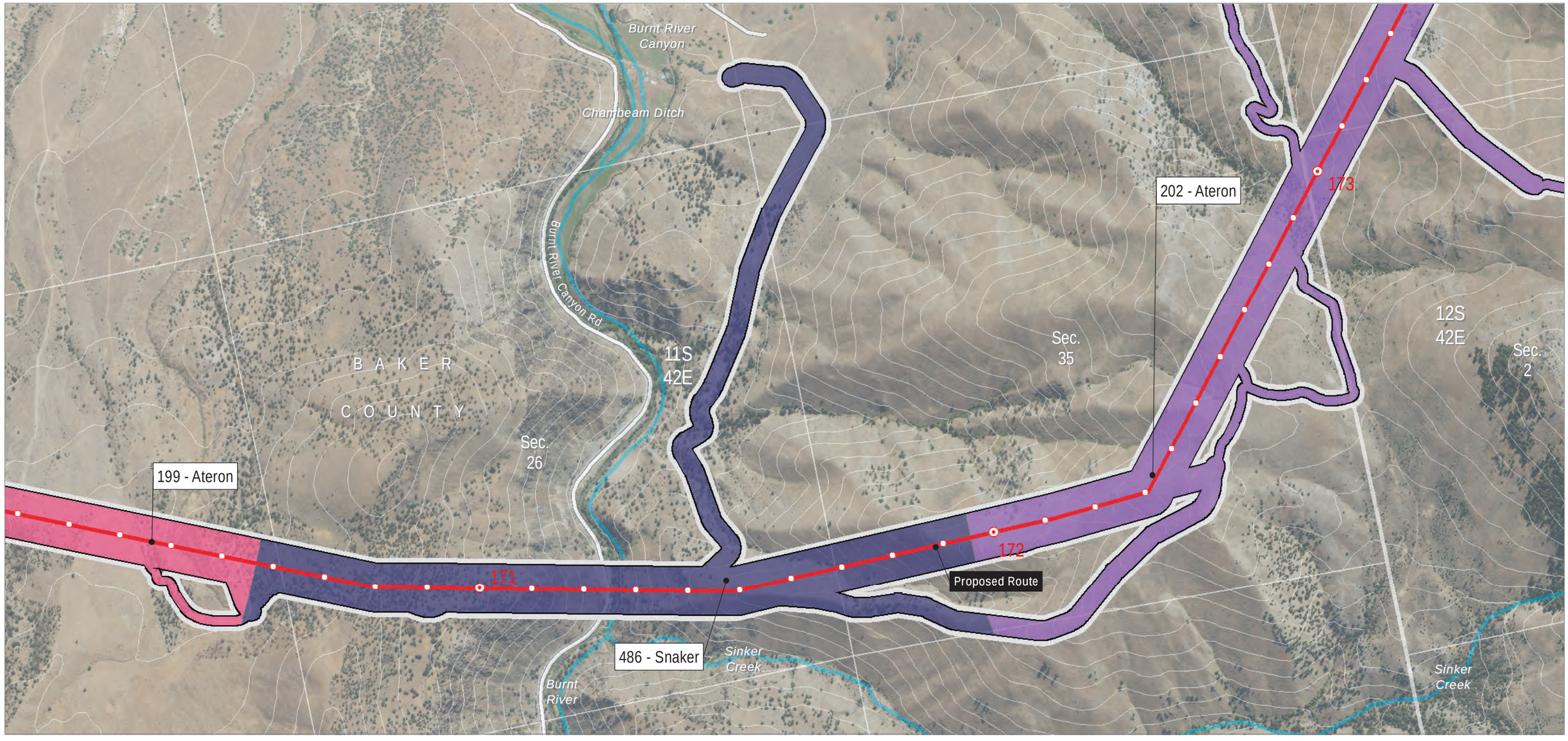
Map 87



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Map Area

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Soil Mapping Units
STATSGO Soil Factors
- 199 - Ateron
- 202 - Ateron
- 486 - Snaker

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

Boardman to Hemingway Transmission Line Project
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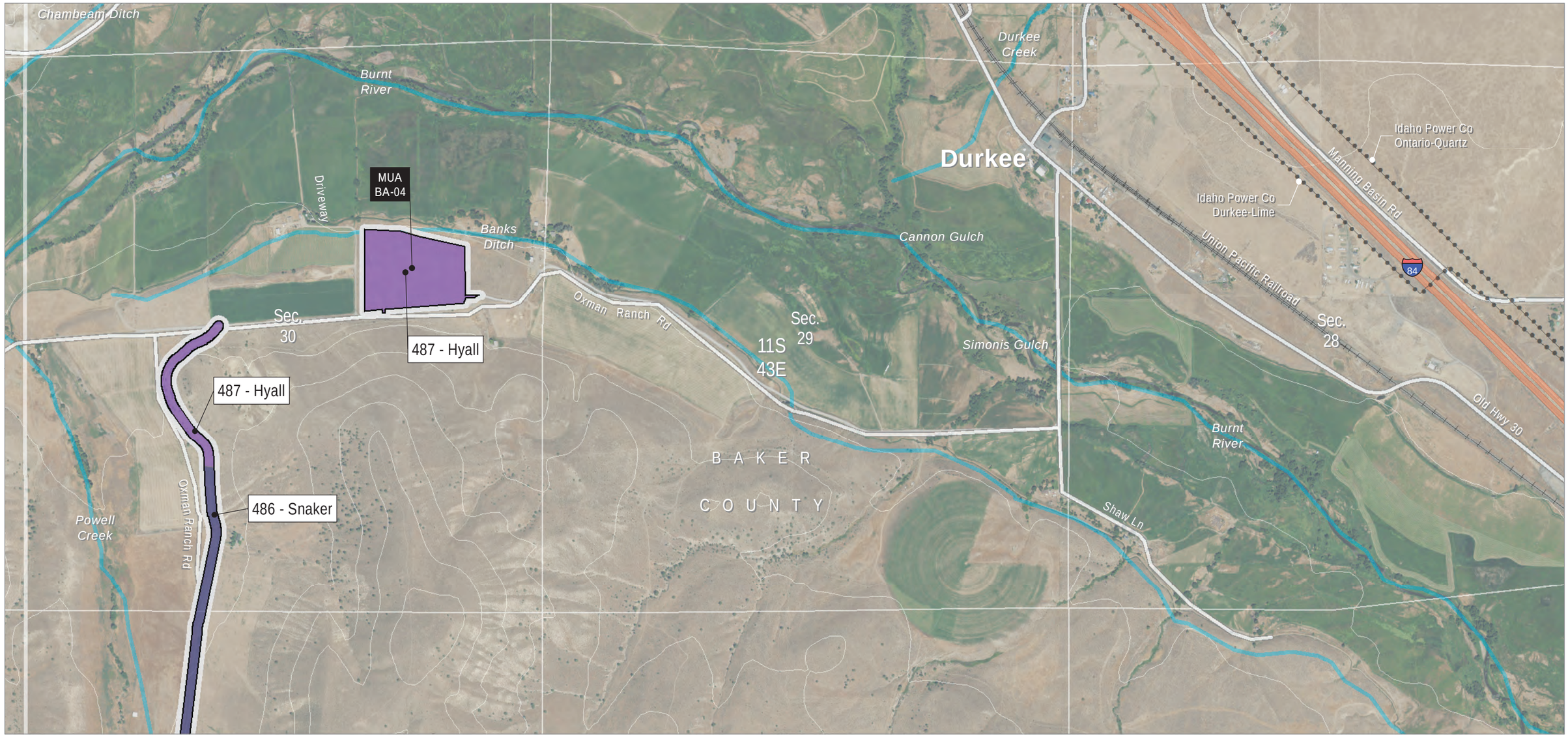
Map 88



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

- 486 - Snaker
- 487 - Hyall

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- Site Boundary

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IDAHO POWER
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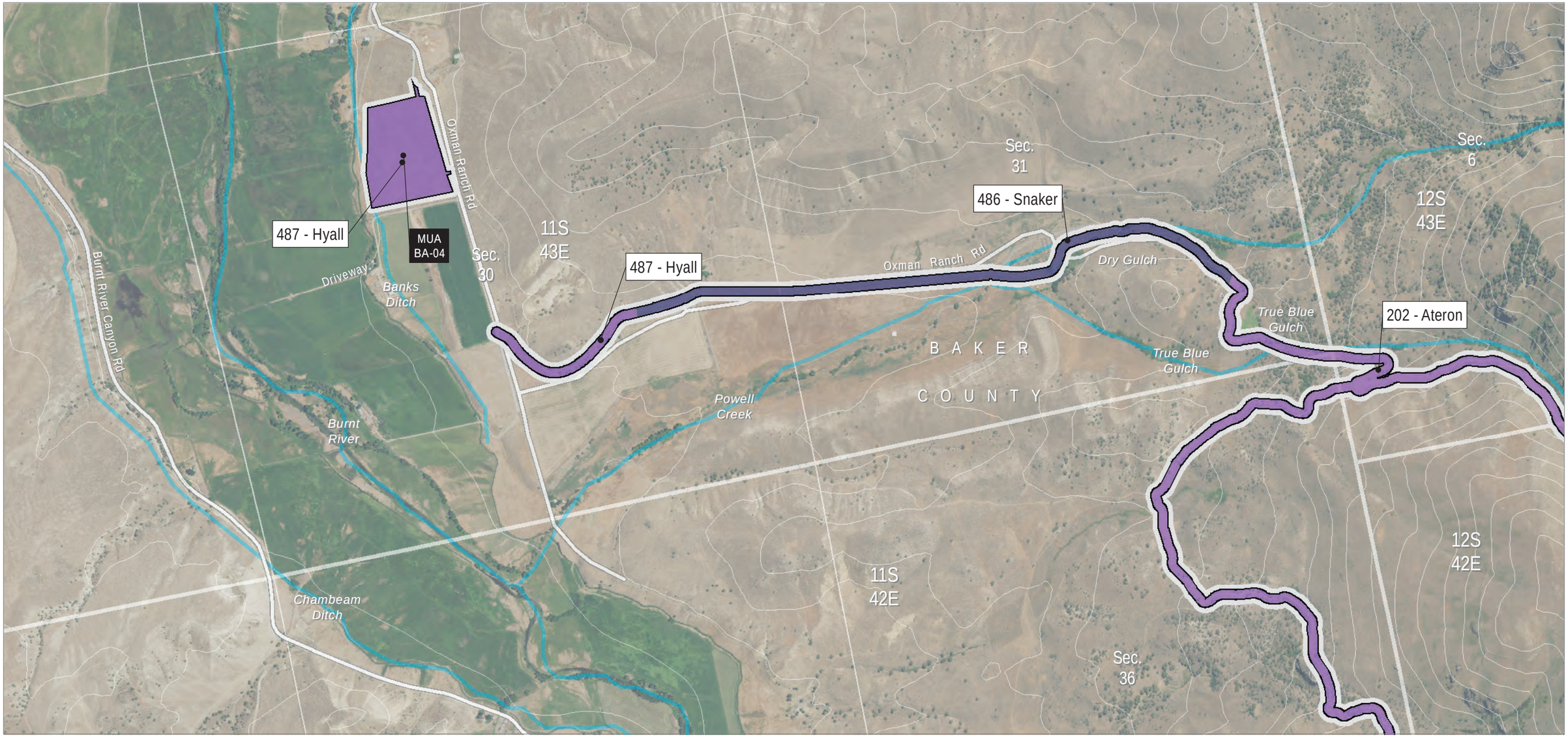
Map 89



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
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Boardman to Hemingway Transmission Line Project
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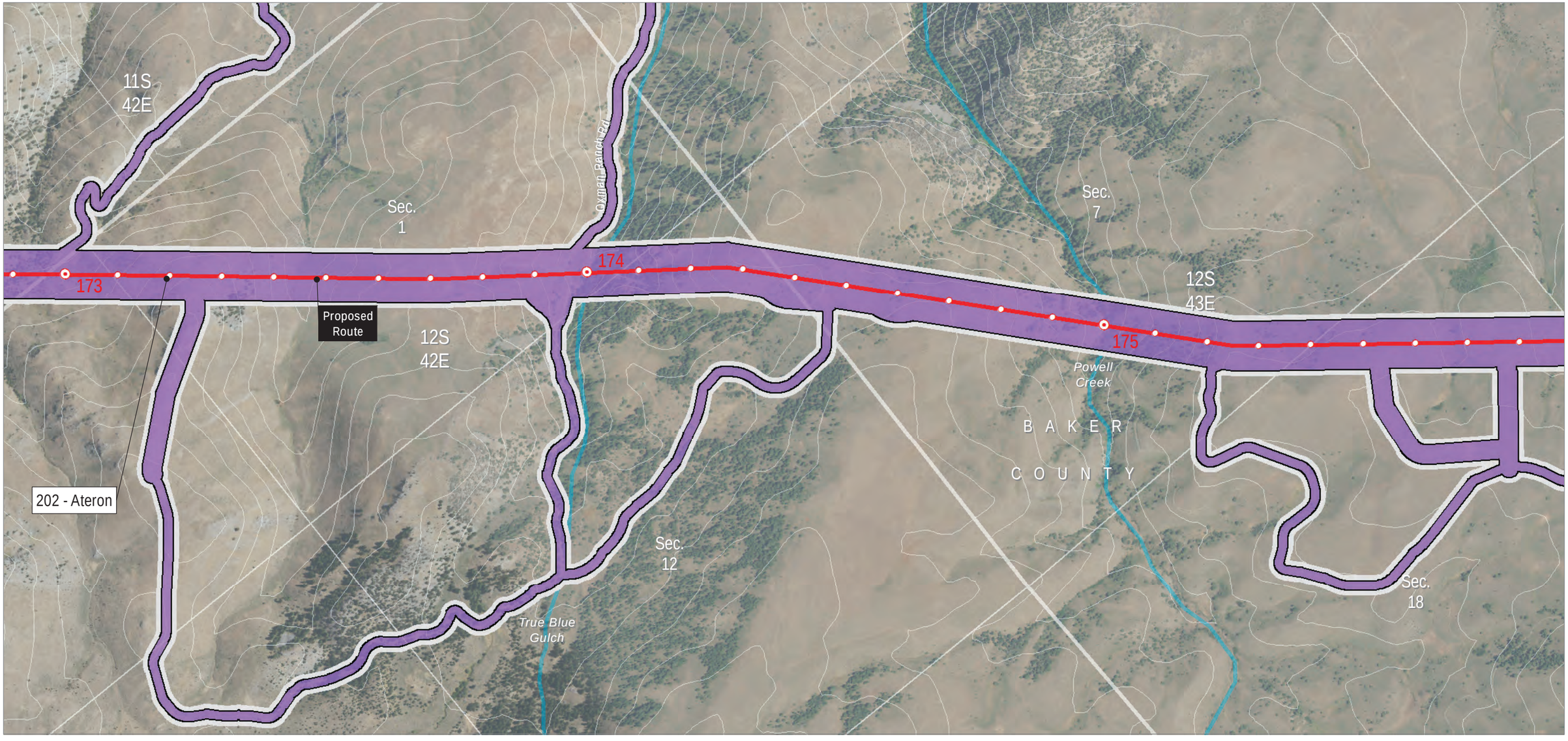
Map 90



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
202 - Ateron
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Road
Stream

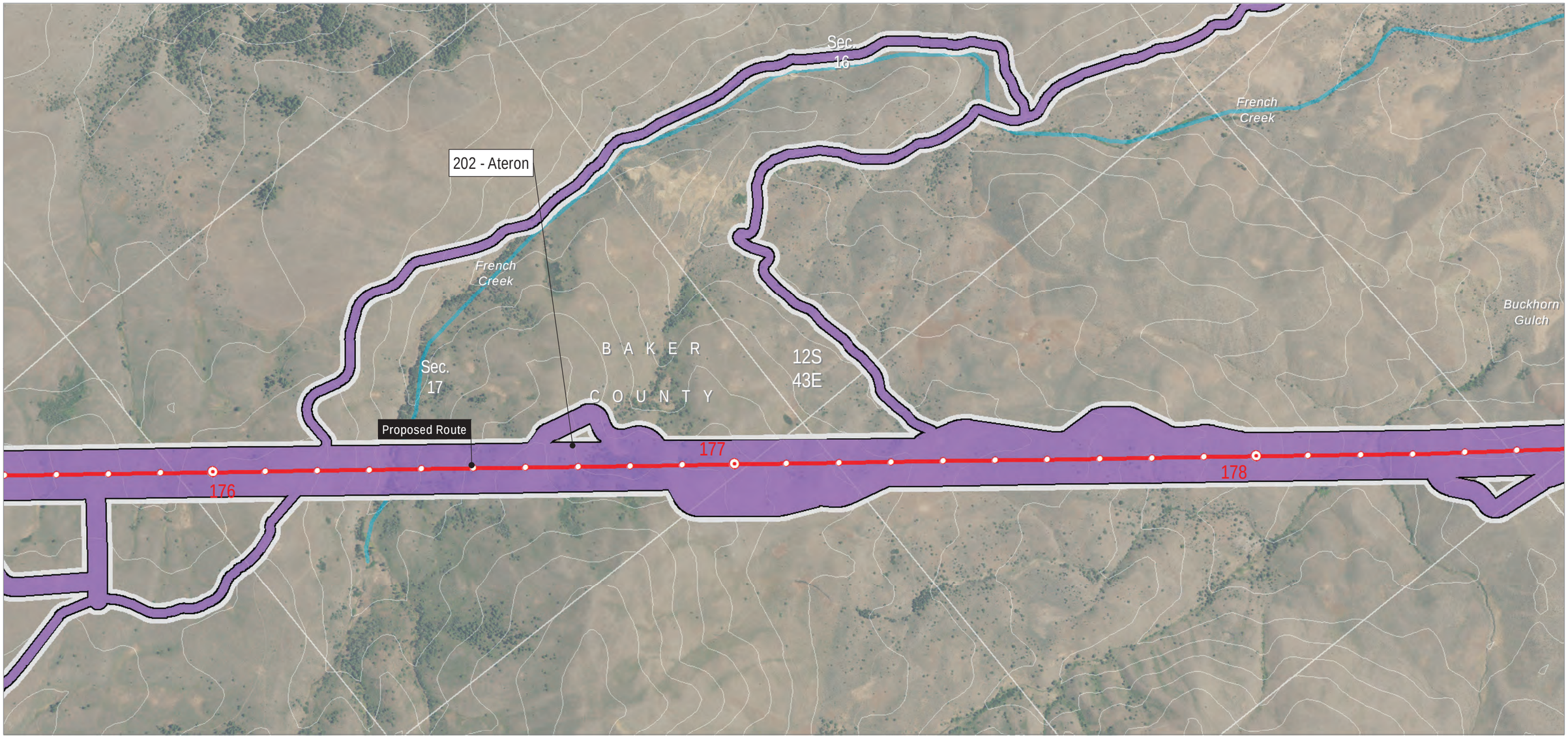
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Baker County

Map 91



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Feet

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
202 - Ateron
Project Features
Site Boundary
Transmission Centerline
Mileposts
Mile
Tenth-mile
Other Features
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Stream

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Baker County

Map 92

202 - Ateron

French Creek

Shirttail Creek Rd

Sec. 22

Buckhorn Gulch

Shirttail Creek

Suitter Ranch Rd

12S 43E

B A K E R

C O U N T Y

Sec. 26

Fur Mountain

Fence Spring

Proposed Route

178

179

180

Sec. 27

202 - Ateron

Suitter Spring

Lower Turner Gulch

Cloverleaf Spring Number Two

Juniper Mountain

0 1,000 Feet

OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

202 - Ateron

Project Features

Site Boundary

Transmission Centerline

Mileposts

Mile

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Road

Stream

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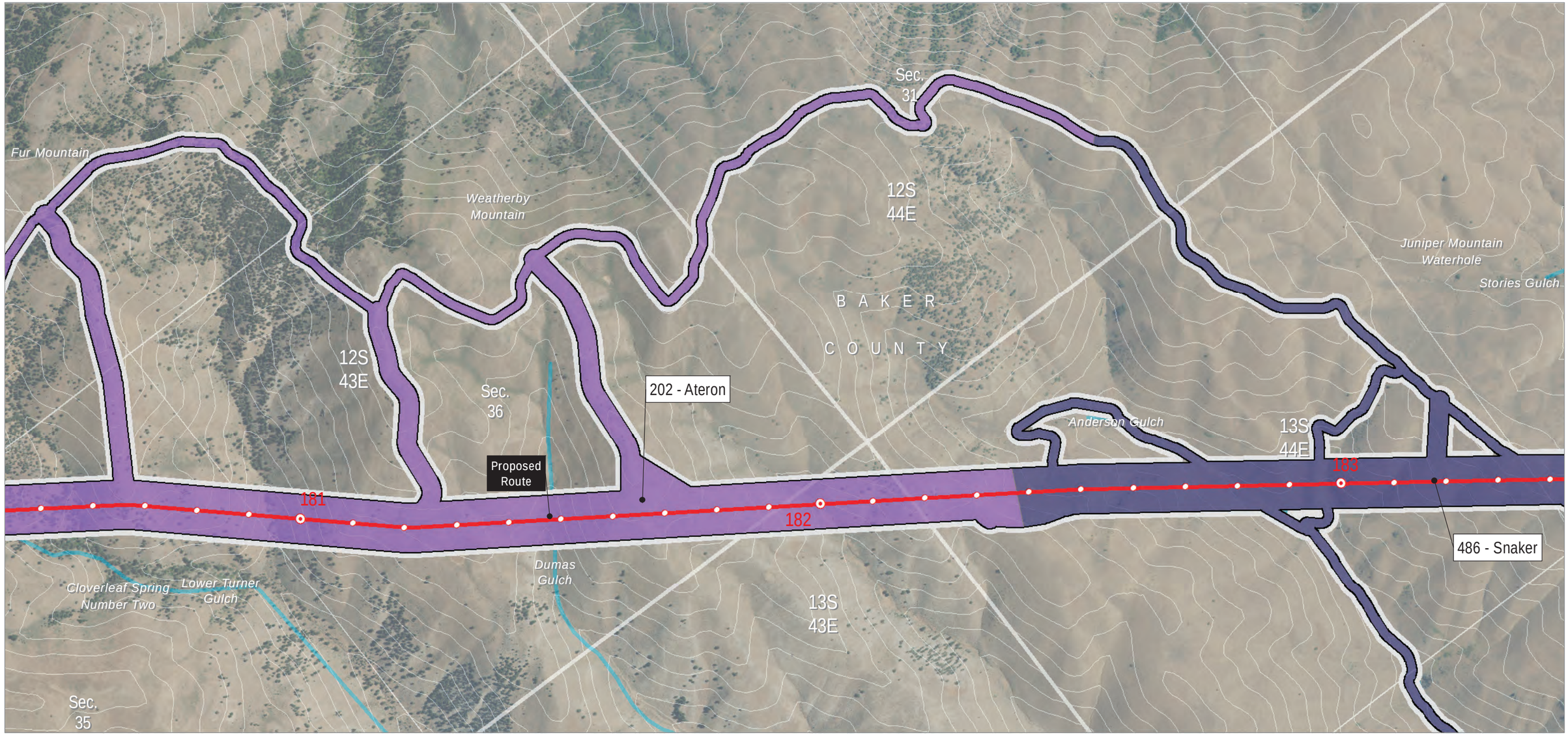
IDAHO POWER An IDACORP Company

Attachment I-1
Soil Mapping Units

Baker County

Map 93



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 202 - Ateron
- 486 - Snaker

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Stream

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Attachment I-1
Soil Mapping Units

Baker County

Map 94

0 1,000
Feet

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 486 - Snaker

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Existing Transmission Lines
- Interstate
- Road
- Railroad
- Stream

Boardman to Hemingway Transmission Line Project
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IDAHO POWER
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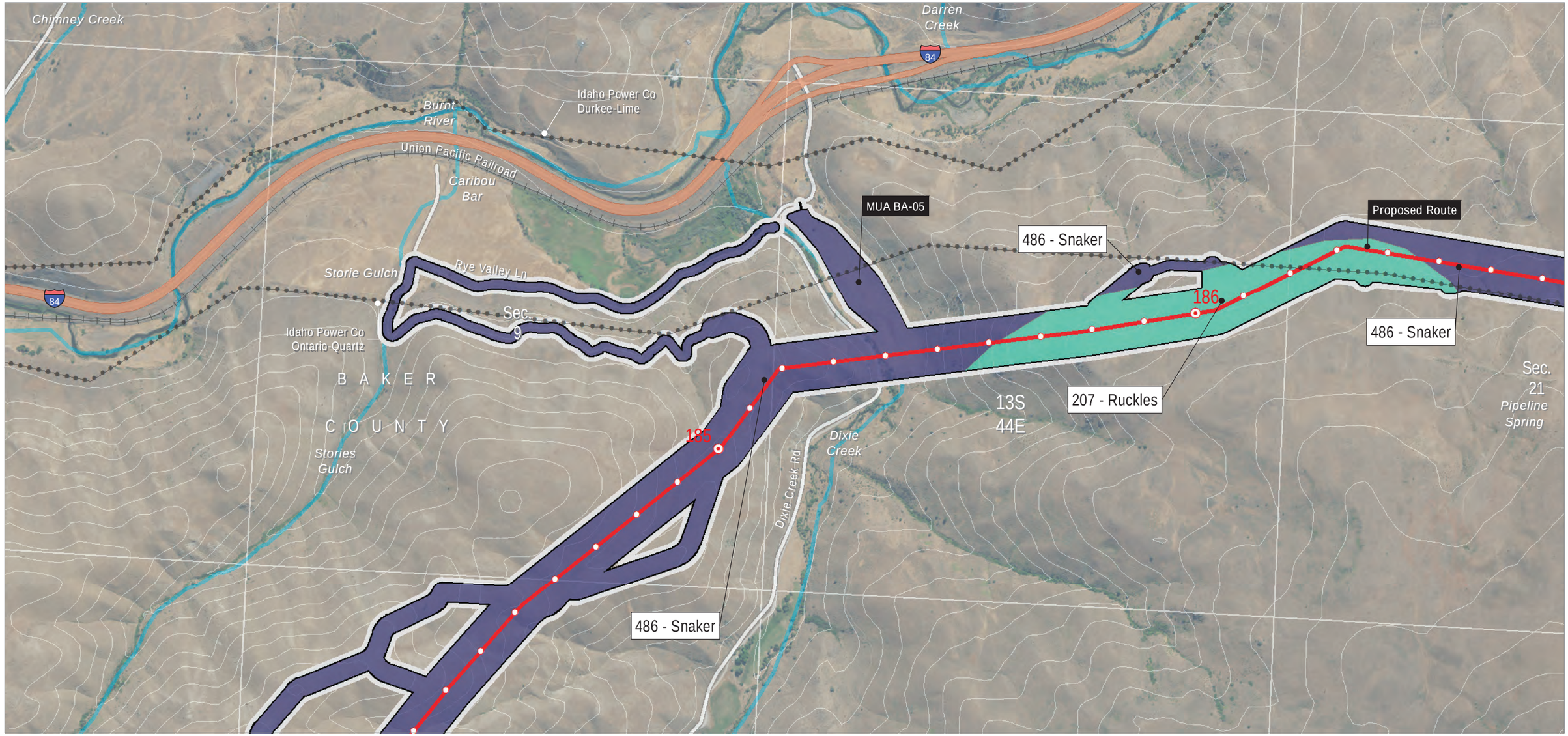
Attachment I-1
Soil Mapping Units

Baker County

Map 95



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 207 - Ruckles
- 486 - Snaker

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Existing Transmission Lines
- Interstate
- Road
- Railroad
- Stream

Boardman to Hemingway Transmission Line Project
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IDAHO POWER
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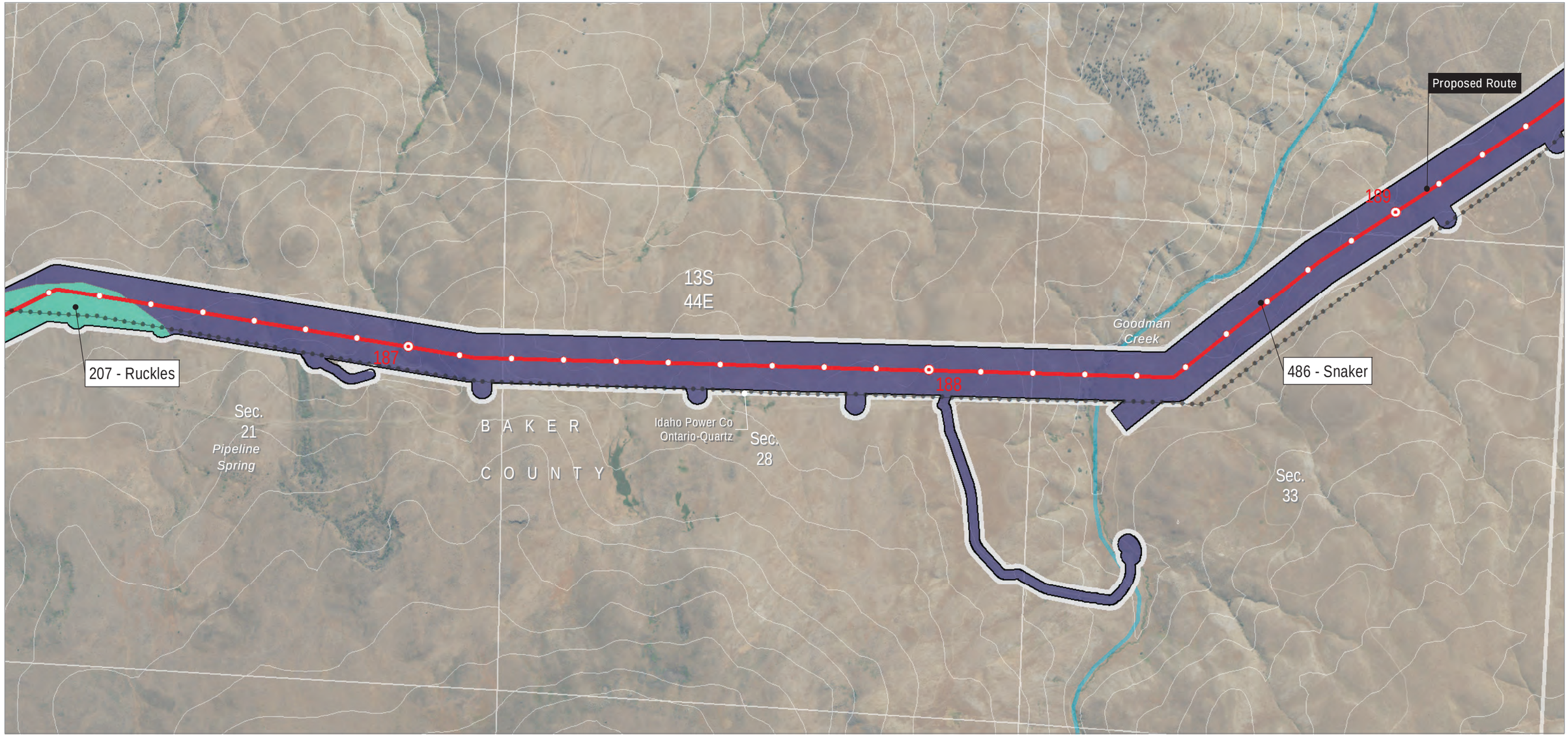
Attachment I-1
Soil Mapping Units

Baker County

Map 96



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 207 - Ruckles
- 486 - Snaker

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

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

Boardman to Hemingway Transmission Line Project
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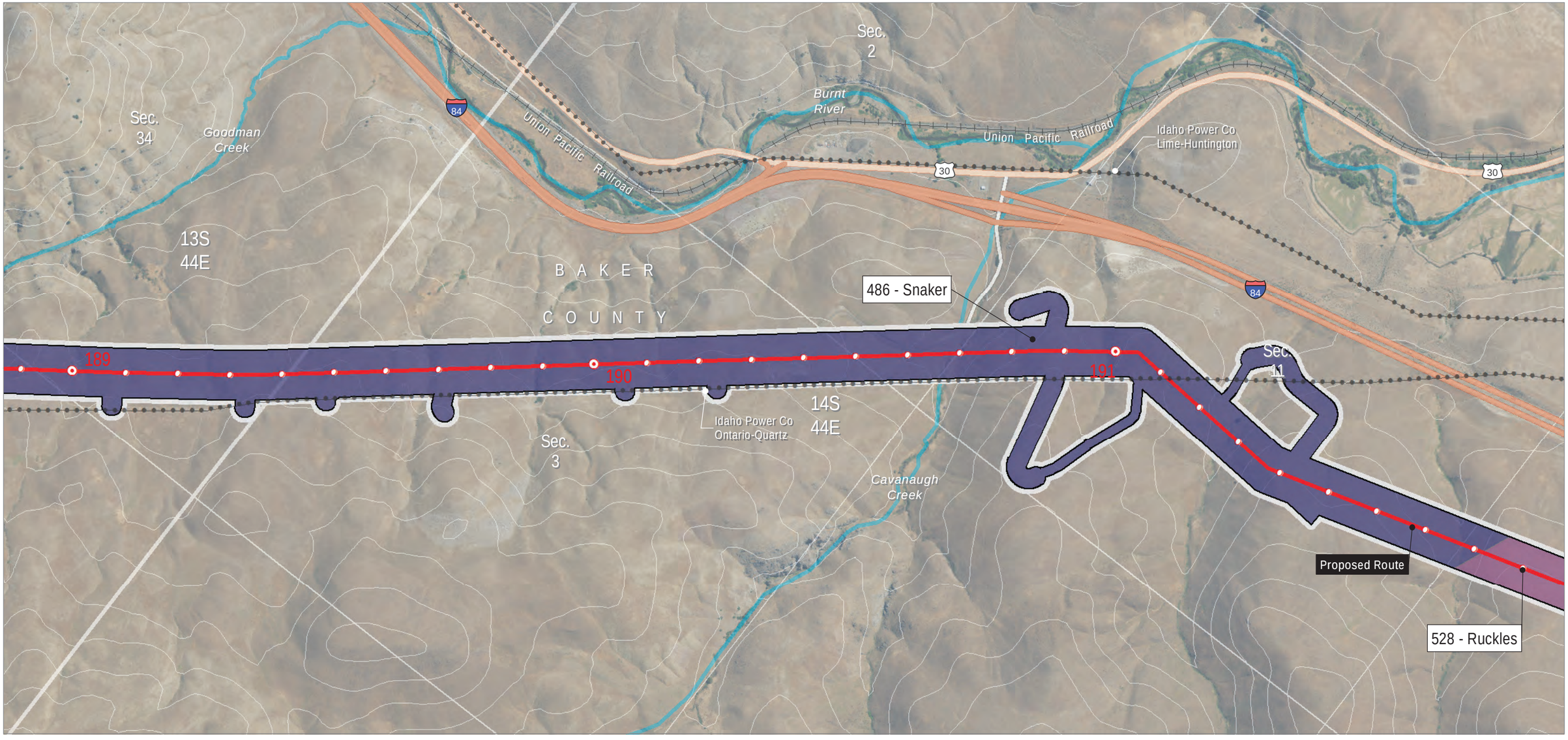
Baker County

Map 97



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Map Area

OREGON

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 486 - Snaker
- 528 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Existing Transmission Lines
- Interstate
- Highway
- Road
- Railroad
- Stream

Boardman to Hemingway Transmission Line Project
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IDAHO POWER
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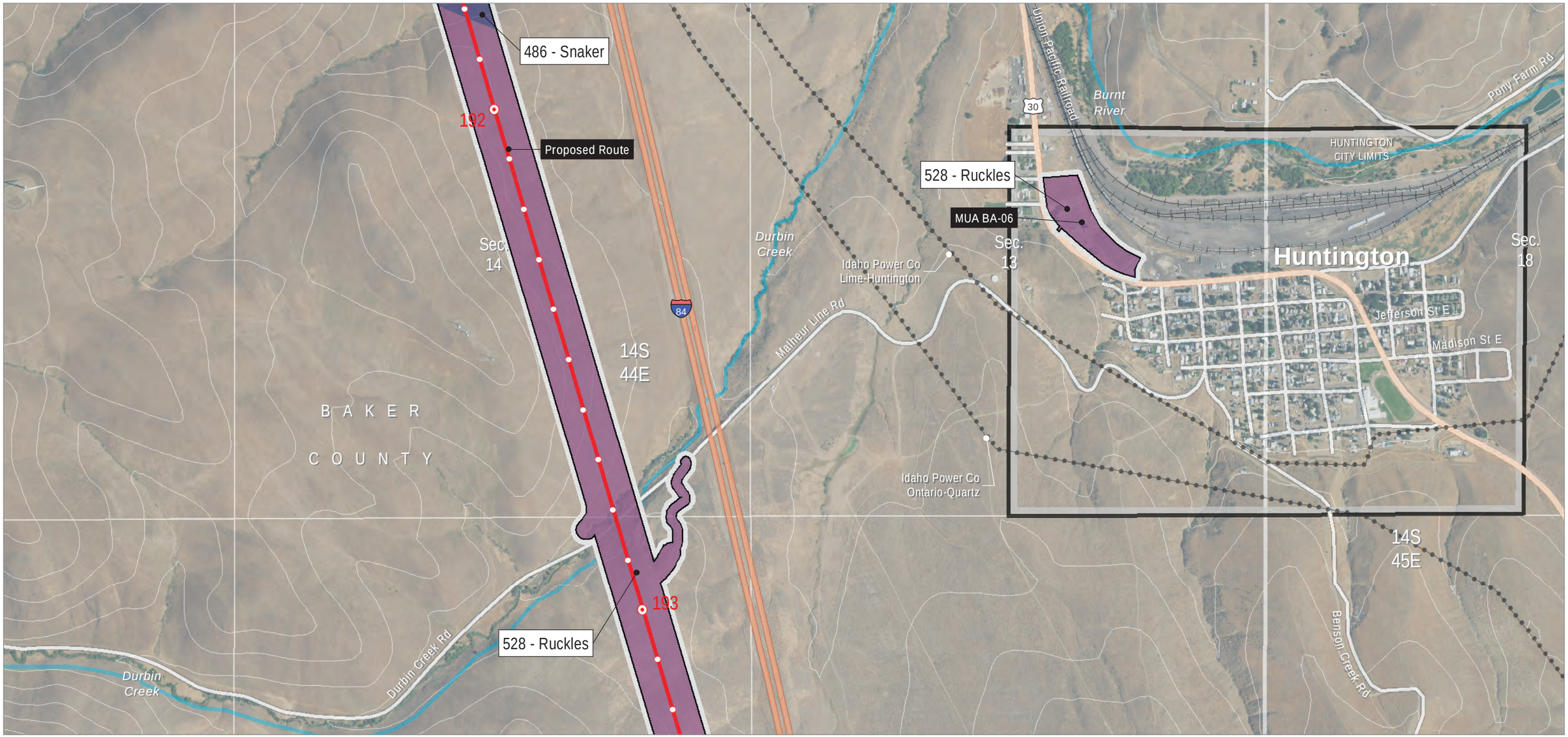
Soil Mapping Units

Baker County

Map 98



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Map Area

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Soil Mapping Units
STATSGO Soil Factors
- 486 - Snaker
- 528 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Existing Transmission Lines
- Interstate
- Highway
- Road
- Railroad
- Stream
- City Limits

Boardman to Hemingway Transmission Line Project
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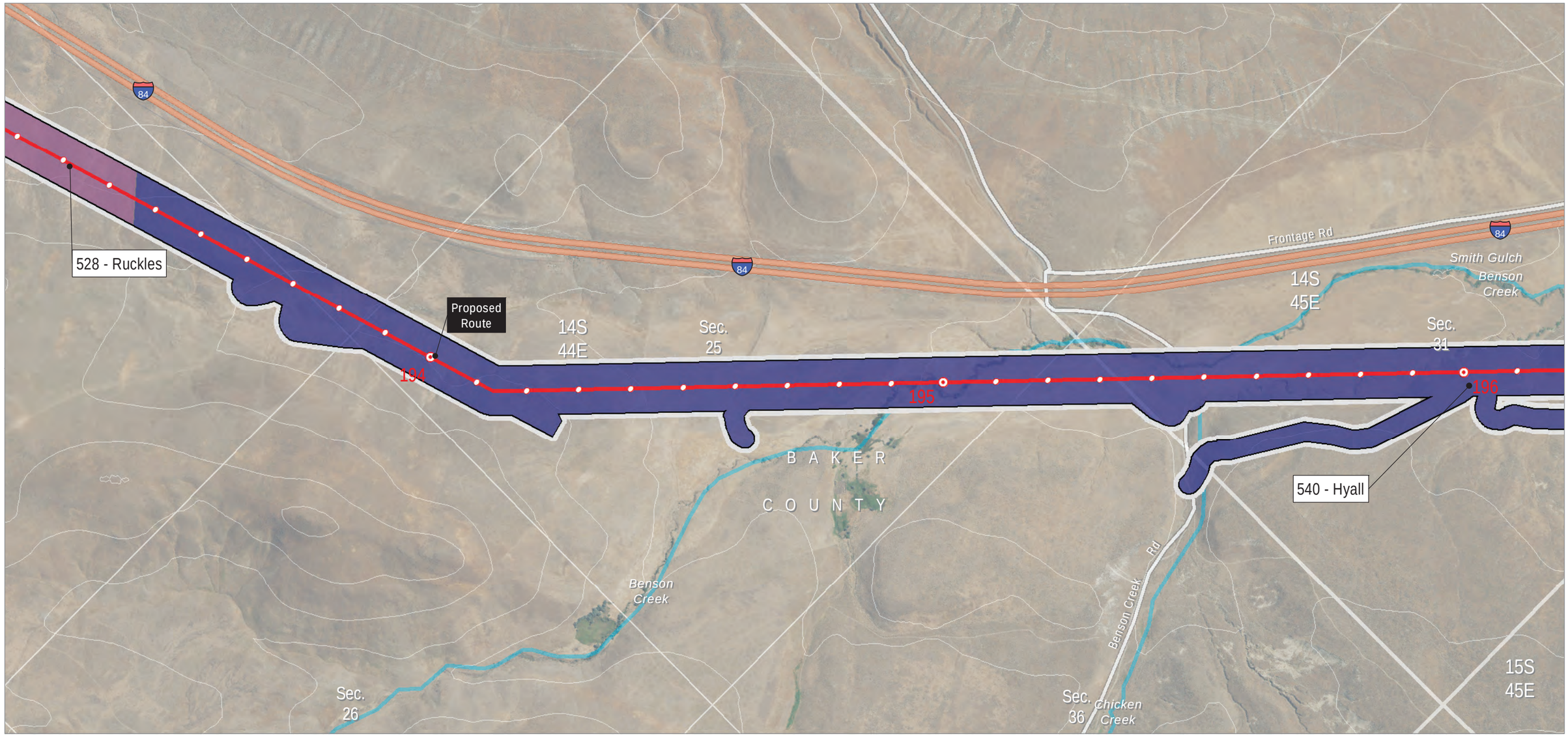
Soil Mapping Units

Baker County

Map 99



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Feet

OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 528 - Ruckles
- 540 - Hyall

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Interstate
- Road
- Stream

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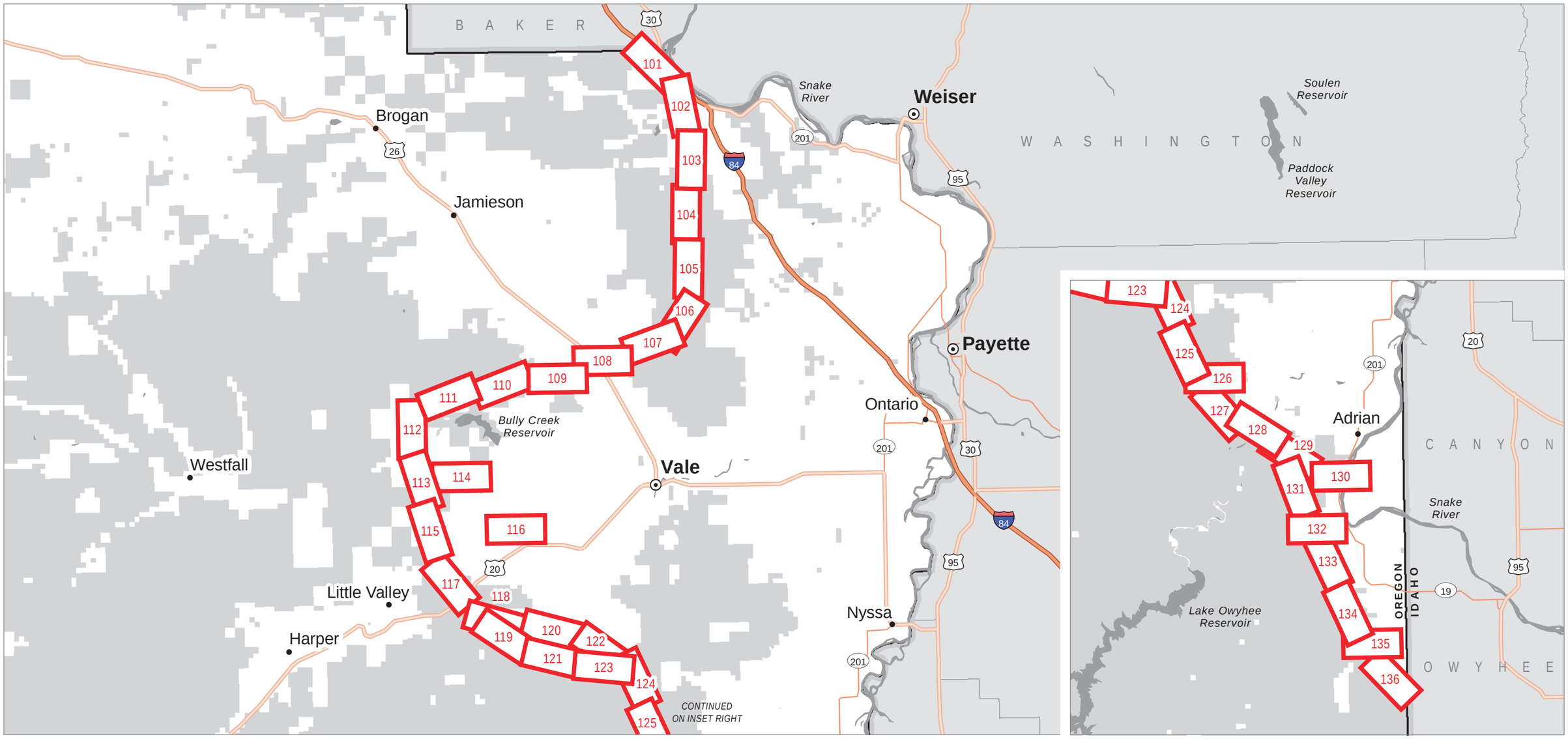
Soil Mapping Units

Baker County

Map 100



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Miles

Map Area

OREGON

Source(s): BLM, IPC, Esri

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Map Index

Location Map (Map #)

Boardman to Hemingway Transmission Line Project
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IDAHO POWER
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Malheur County

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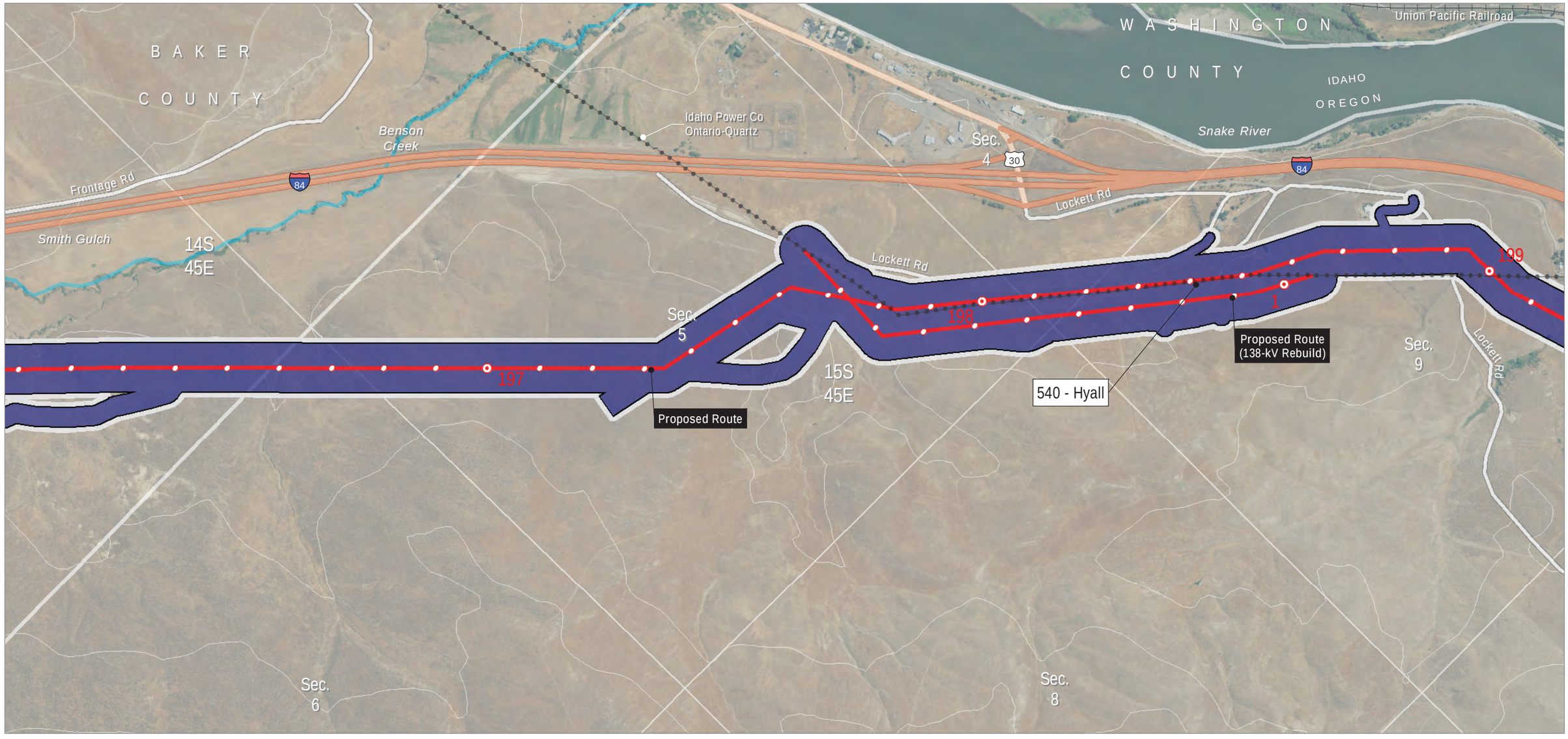

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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 540 - Hyall

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Existing Transmission Lines
- Interstate
- Highway
- Road
- Railroad
- Stream

Boardman to Hemingway Transmission Line Project
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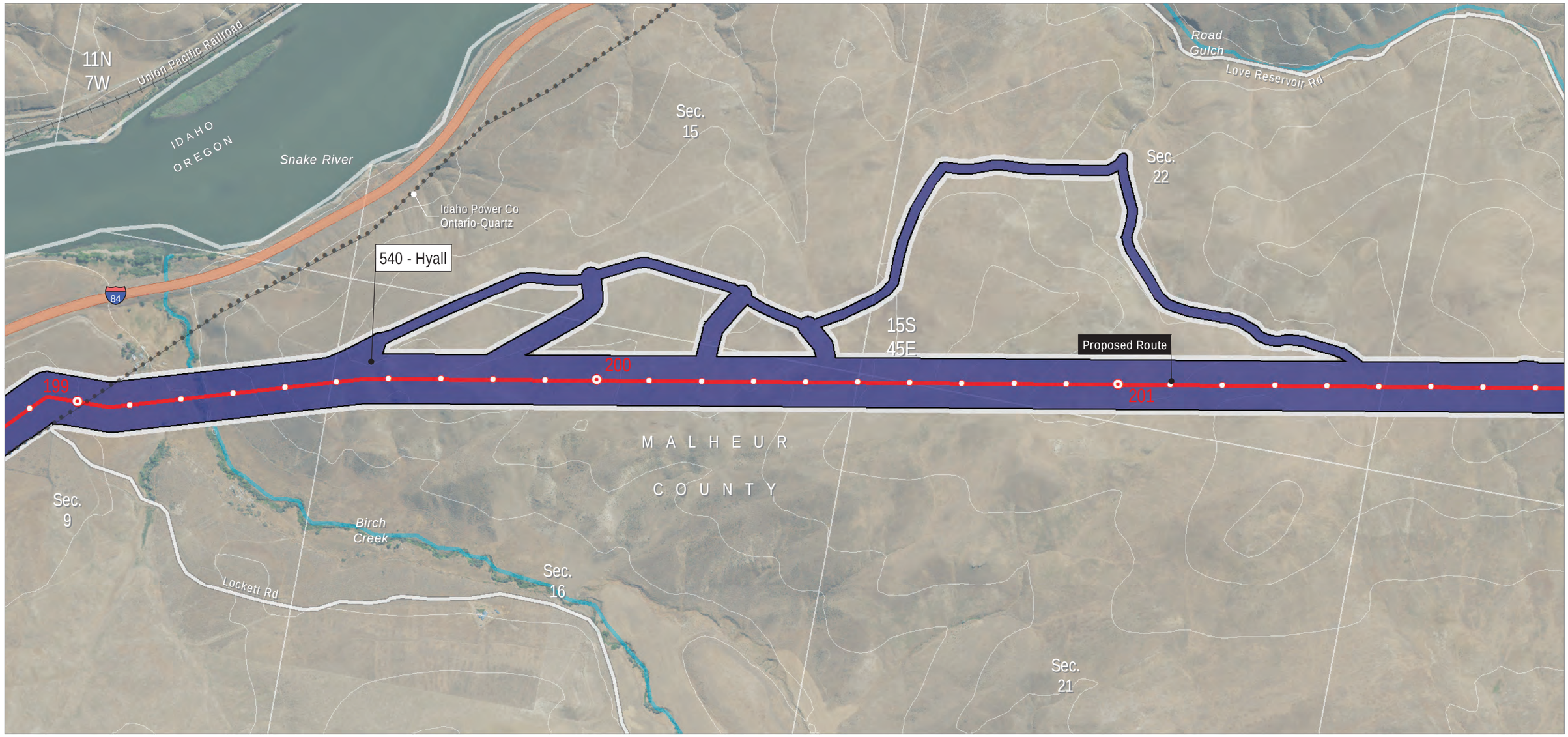
Soil Mapping Units

Malheur County

Map 101



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Map Area

OREGON

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
540 - Hyall

Project Features
Site Boundary
Transmission Centerline

Mileposts
Mile
Tenth-mile

Other Features
100-foot Contours

Existing Transmission Lines
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Railroad
Stream

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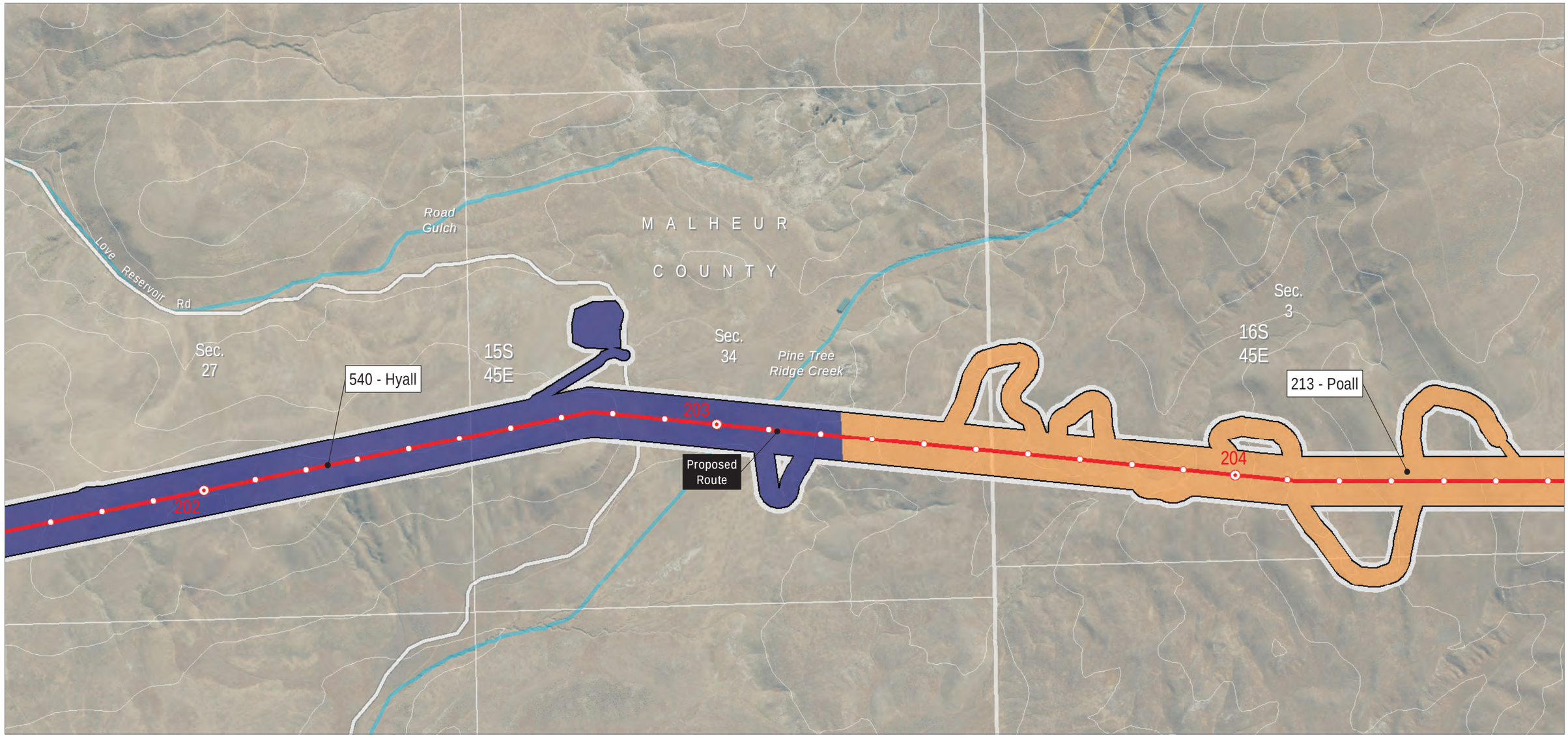
Malheur County

Map 102



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 213 - Poall
- 540 - Hyall

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

Boardman to Hemingway Transmission Line Project
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IDAHO POWER
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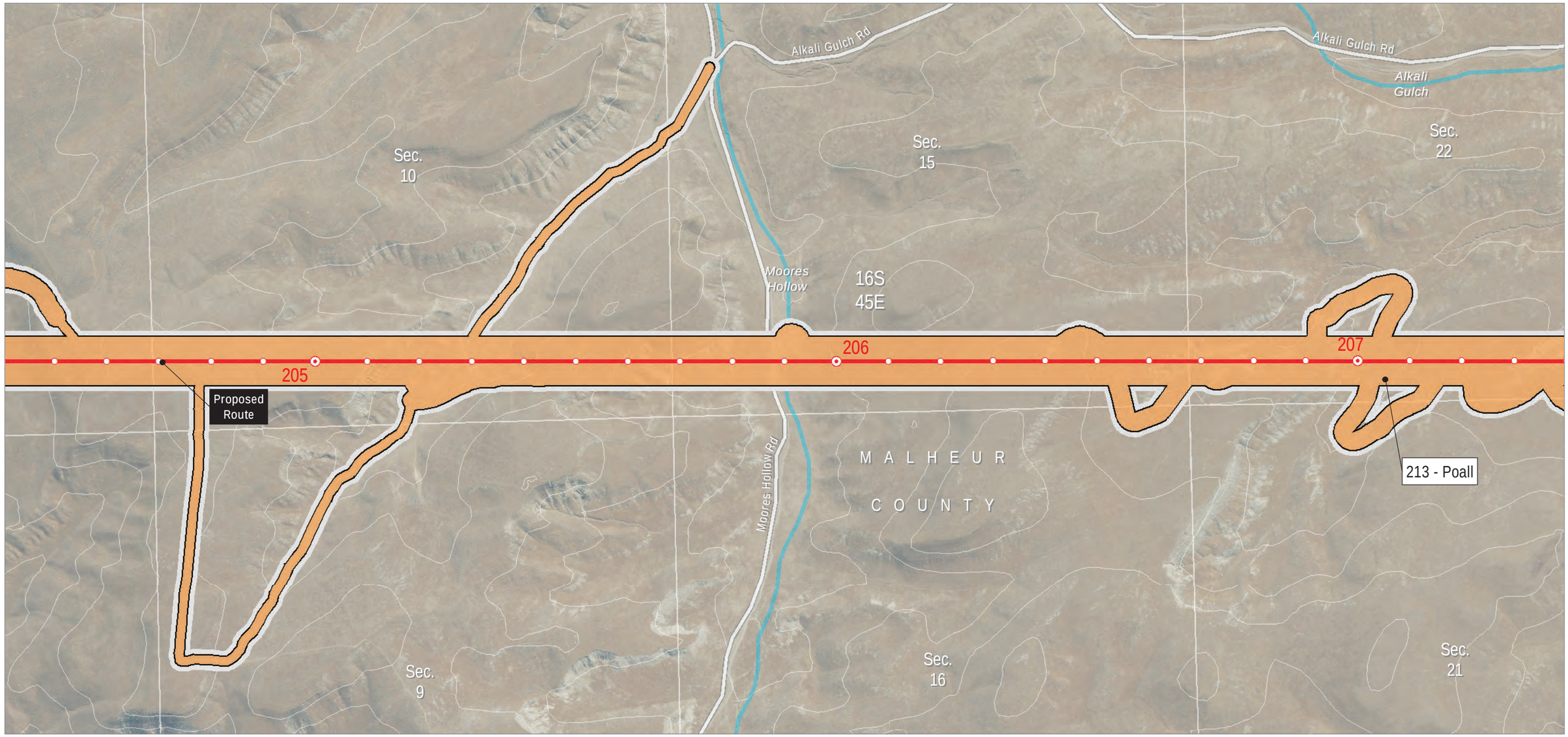
Soil Mapping Units

Malheur County

Map 103



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
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213 - Poall
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Boardman to Hemingway Transmission Line Project
Application for Site Certificate

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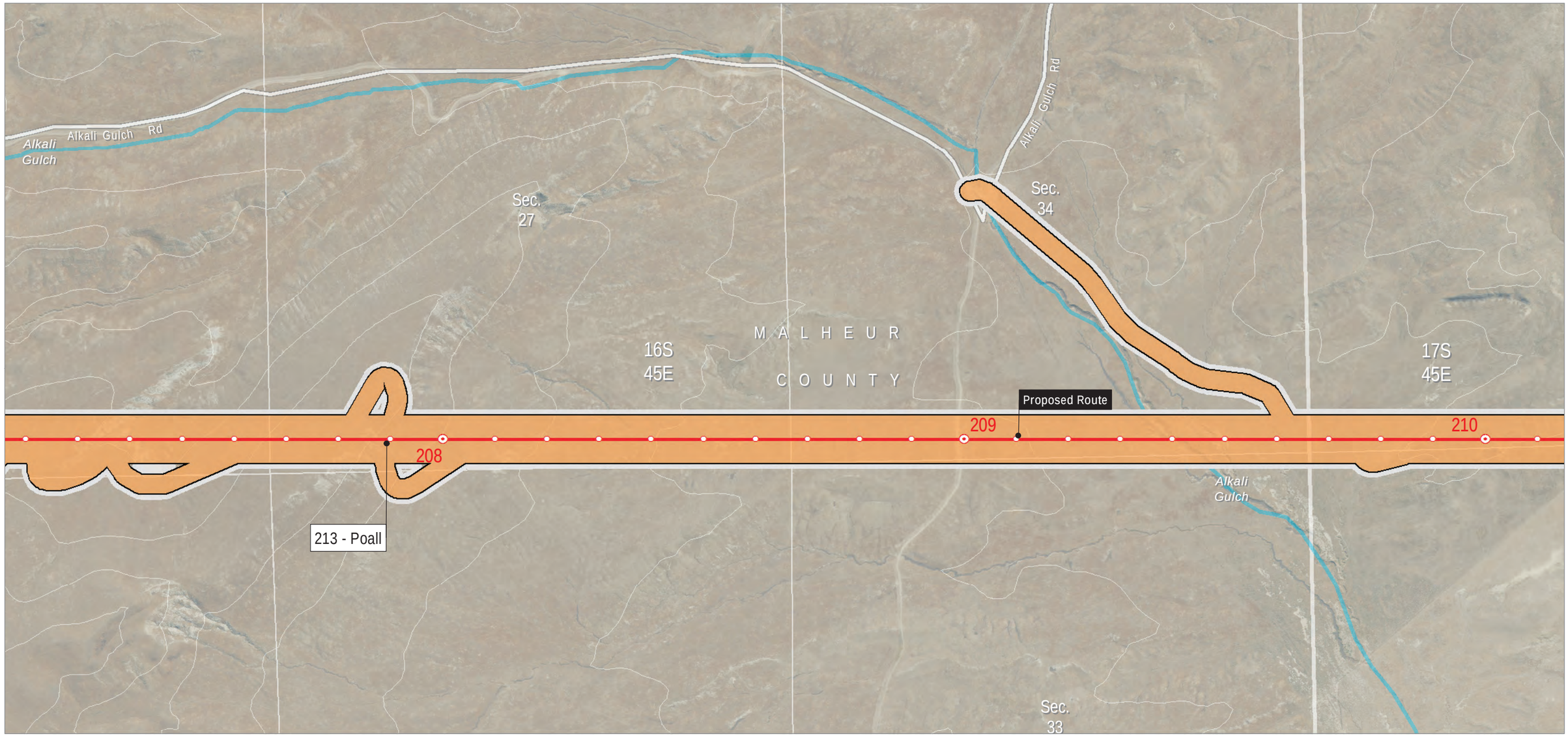
Soil Mapping Units

Malheur County

Map 104



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Feet

OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
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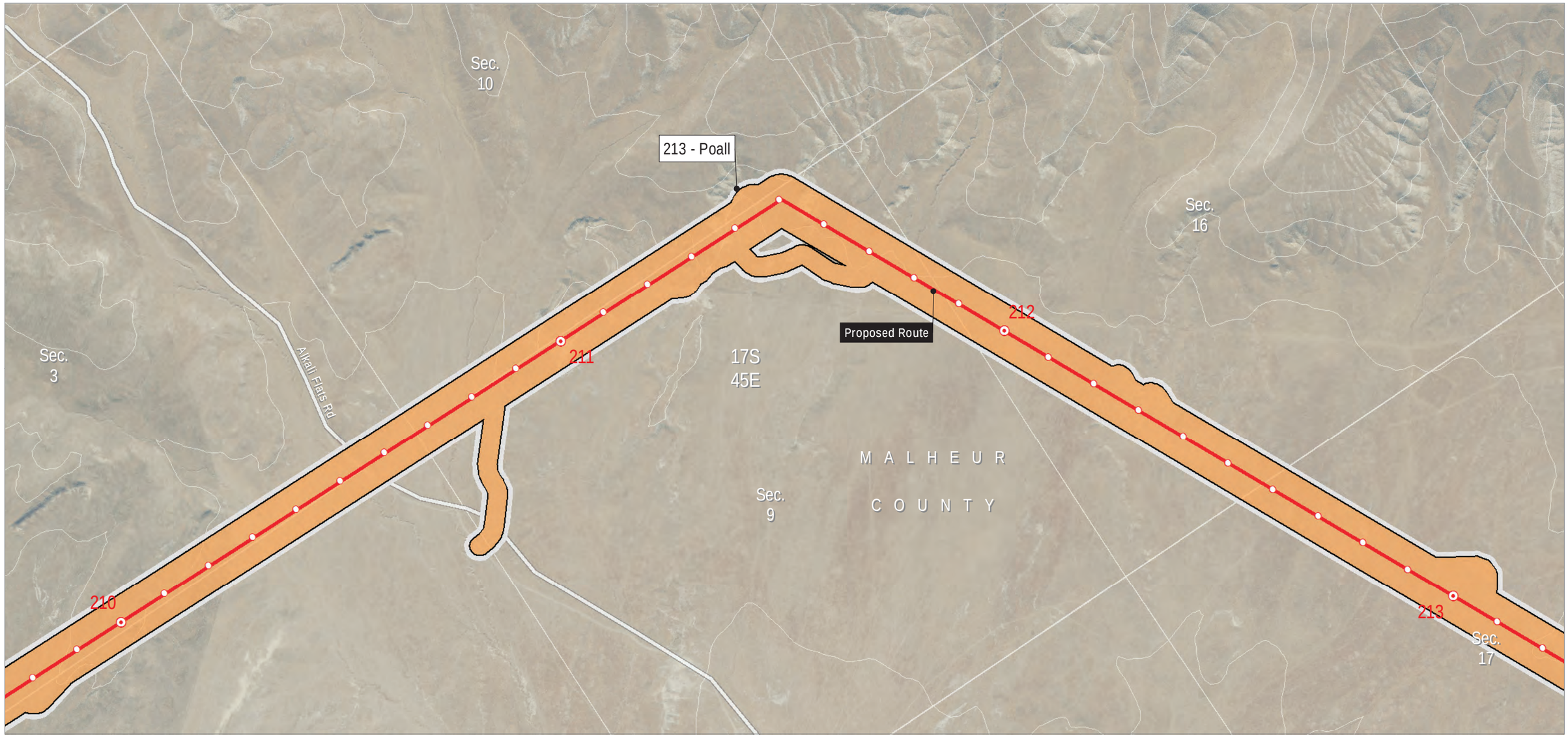
Soil Mapping Units

Malheur County

Map 105



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
213 - Poall
Project Features
Site Boundary
Transmission Centerline
Mileposts
Mile
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Other Features
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Road

Boardman to Hemingway Transmission Line Project
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Soil Mapping Units

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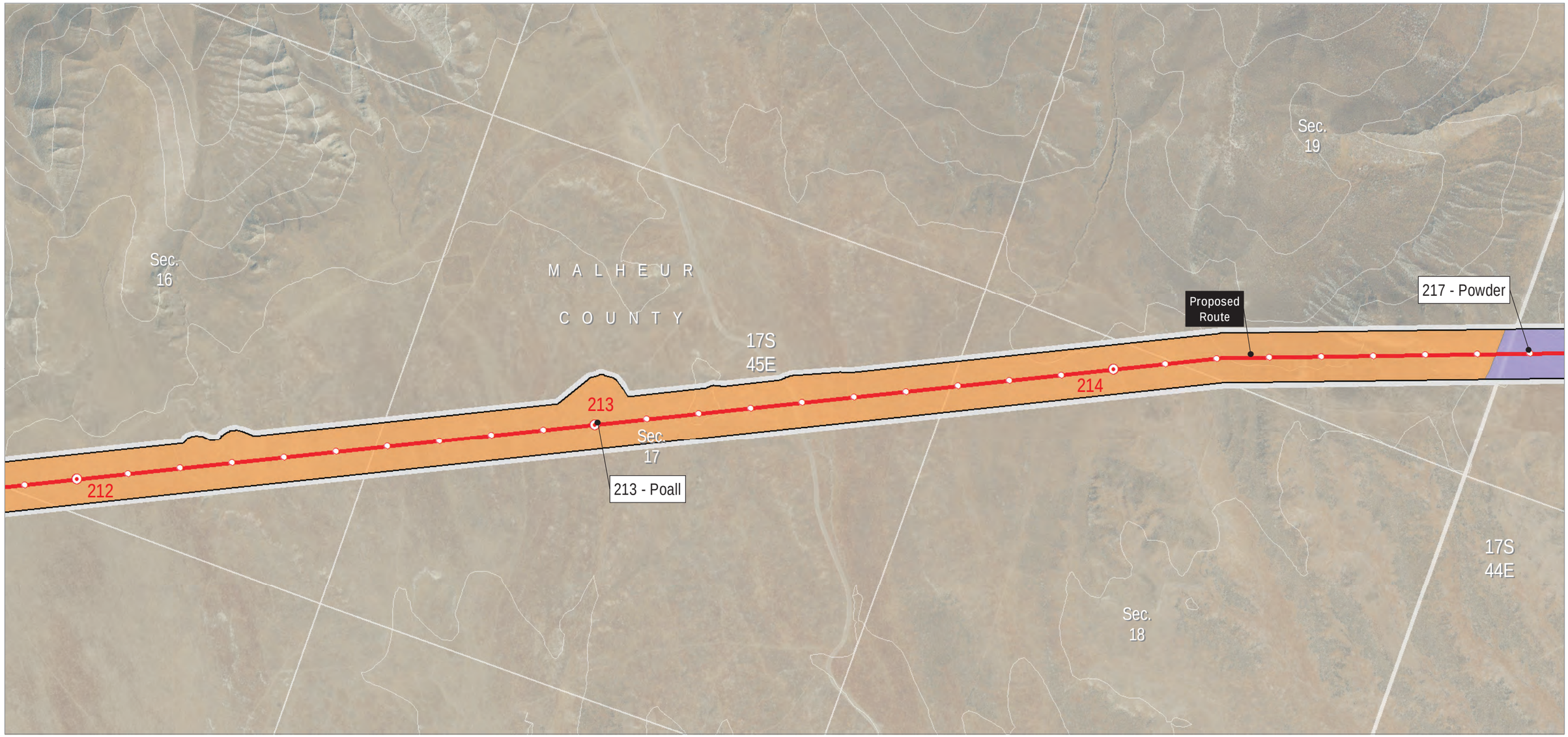
Map 106



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Map Area

OREGON

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 213 - Poall
- 217 - Powder

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours

Boardman to Hemingway Transmission Line Project
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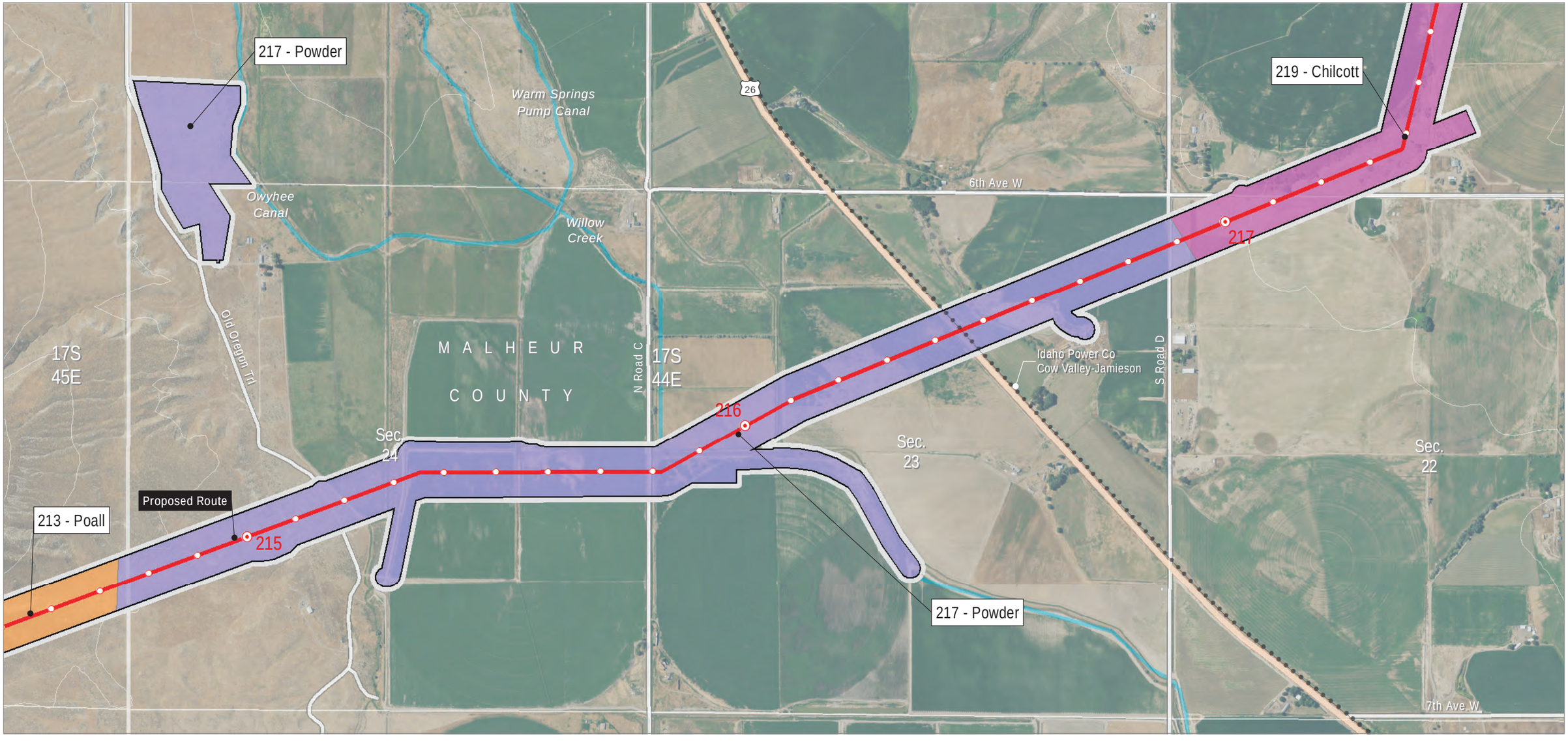
Map 107



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 213 - Poall
- 217 - Powder
- 219 - Chilcott

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

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

Boardman to Hemingway Transmission Line Project
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Soil Mapping Units

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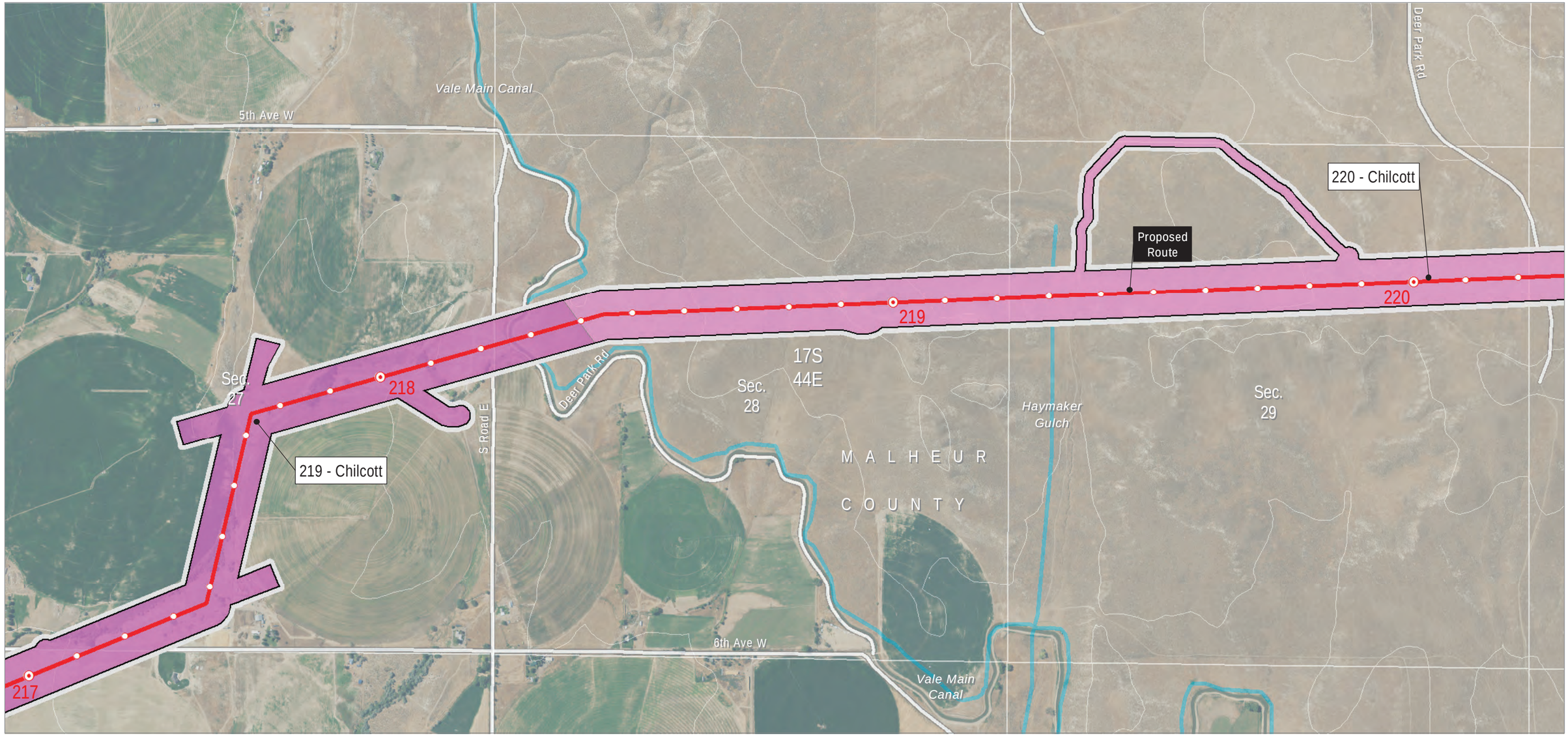
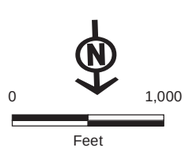
Map 108





Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 219 - Chilcott
- 220 - Chilcott

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

Boardman to Hemingway Transmission Line Project
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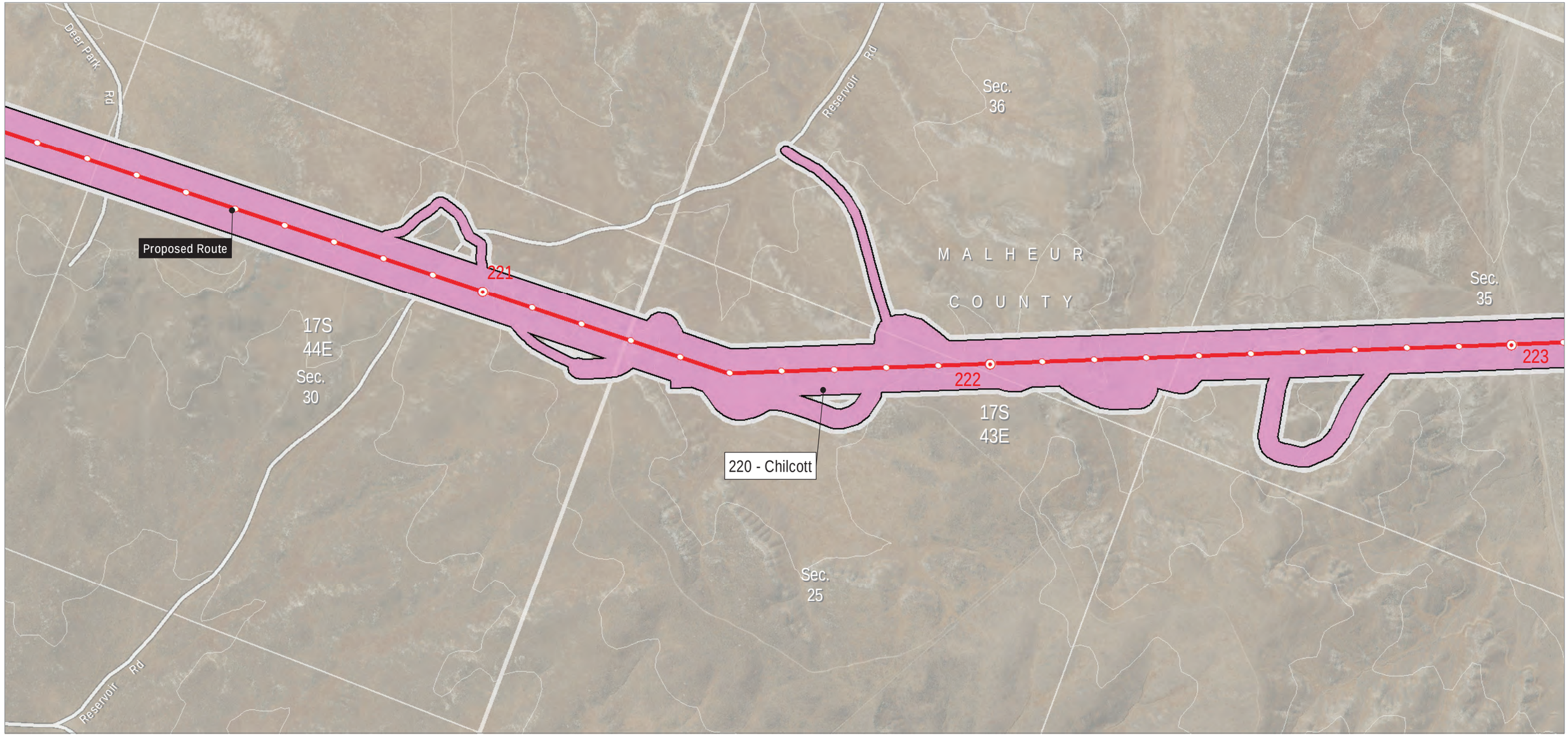
Map 109



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
220 - Chilcott
Project Features
Site Boundary
Transmission Centerline
Mileposts
Mile
Tenth-mile
Other Features
100-foot Contours
Road

Boardman to Hemingway Transmission Line Project
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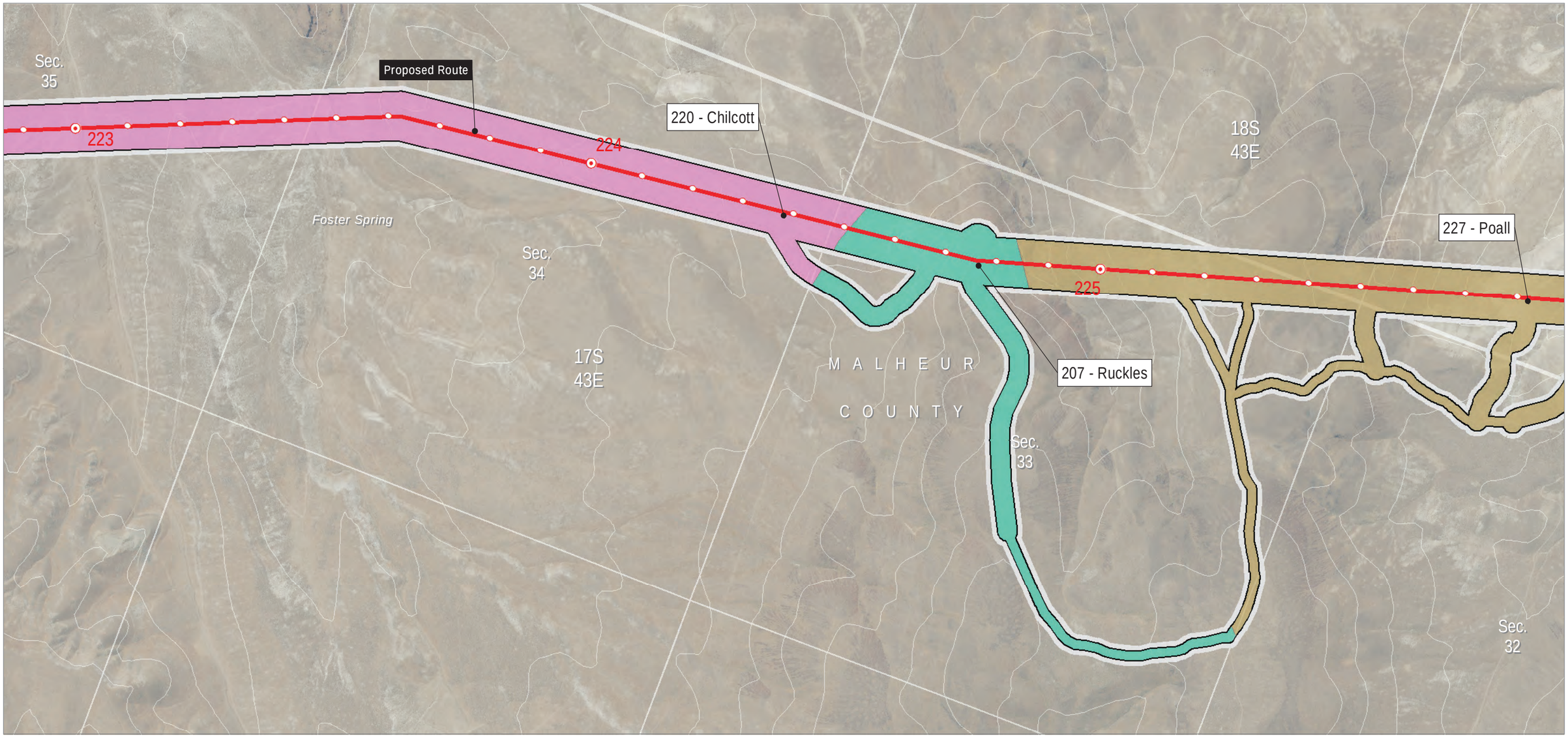
Map 110



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Map Area

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Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

- 207 - Ruckles
- 220 - Chilcott
- 227 - Poall

Project Features

- Site Boundary
- Transmission Centerline

Mileposts

- Mile
- Tenth-mile

Other Features

- 100-foot Contours

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

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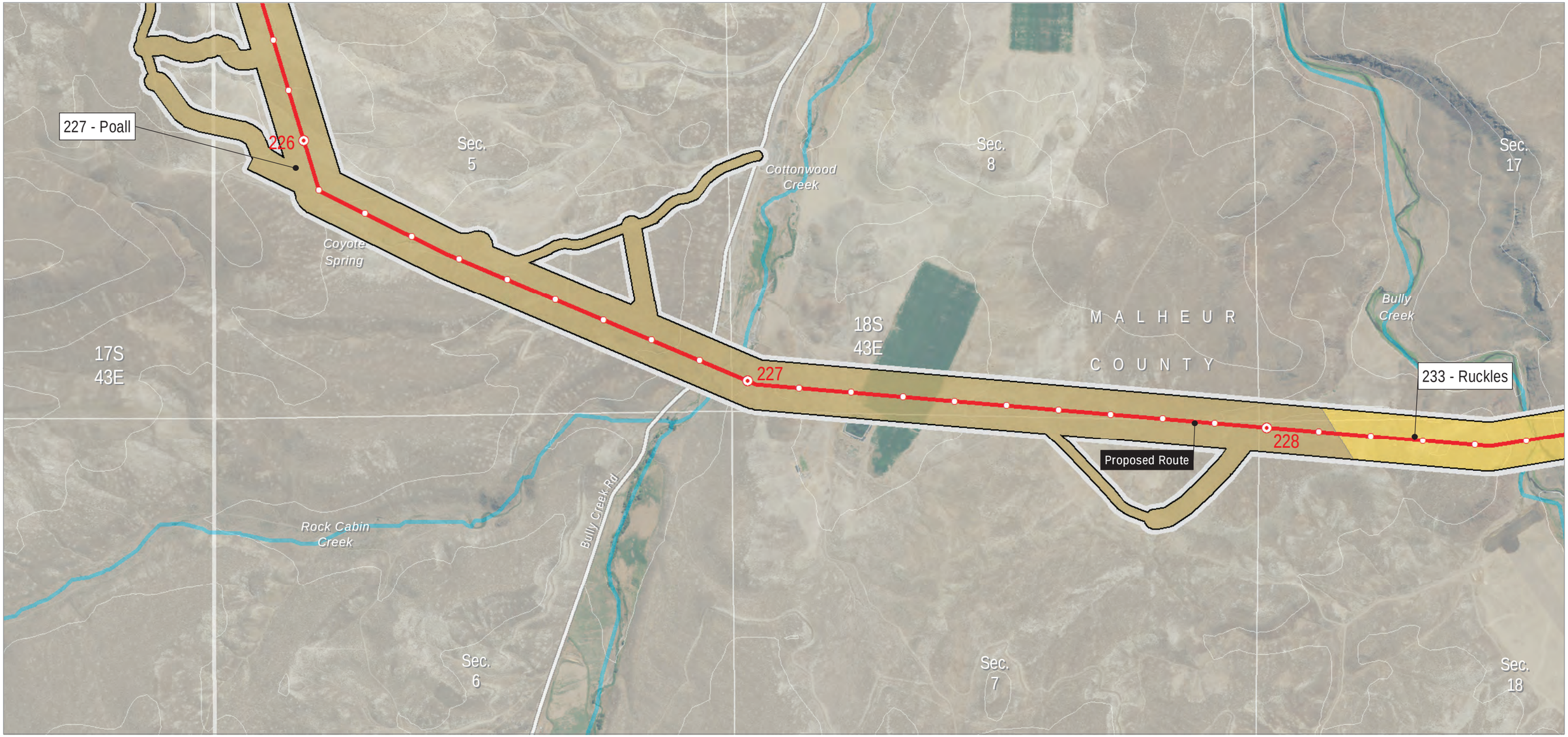
Map 111



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Map Area

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Soil Mapping Units
STATSGO Soil Factors
- 227 - Poall
- 233 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

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Soil Mapping Units

Malheur County

Map 112

Sec. 17

Sec. 20

18S 43E

MALHEUR COUNTY

Sec. 29

229

230

231

Proposed Route

234 - Chilcott

233 - Ruckles

Bully Creek

0 1,000 Feet

OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

- 233 - Ruckles
- 234 - Chilcott

Project Features

- Site Boundary
- Transmission Centerline

Mileposts

- Mile
- Tenth-mile

Other Features

- 100-foot Contours
- Stream

Boardman to Hemingway Transmission Line Project

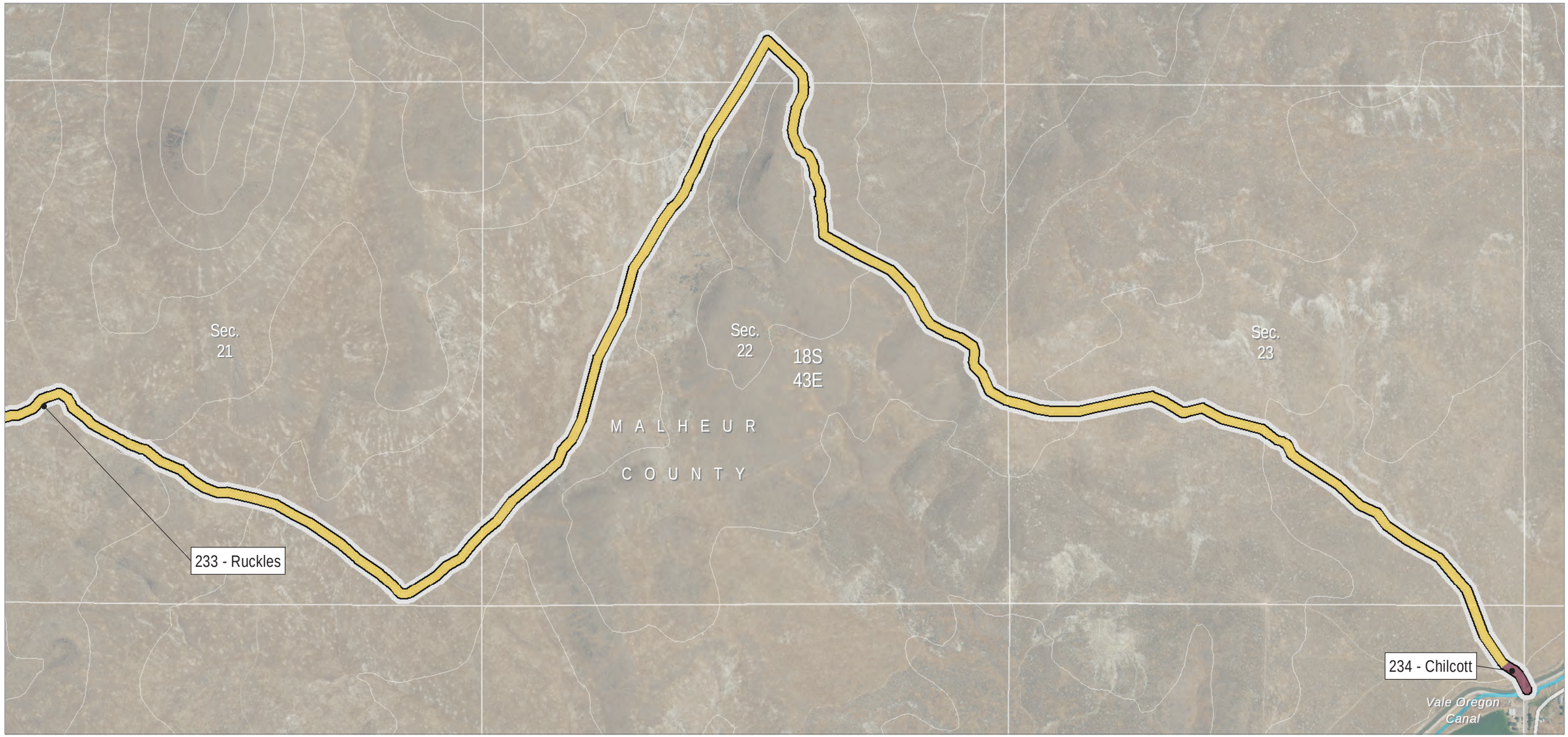
Application for Site Certificate

IDAHO POWER An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 113



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

- 233 - Ruckles
- 234 - Chilcott

Project Features

- Site Boundary

Other Features

- 100-foot Contours
- Road
- Stream

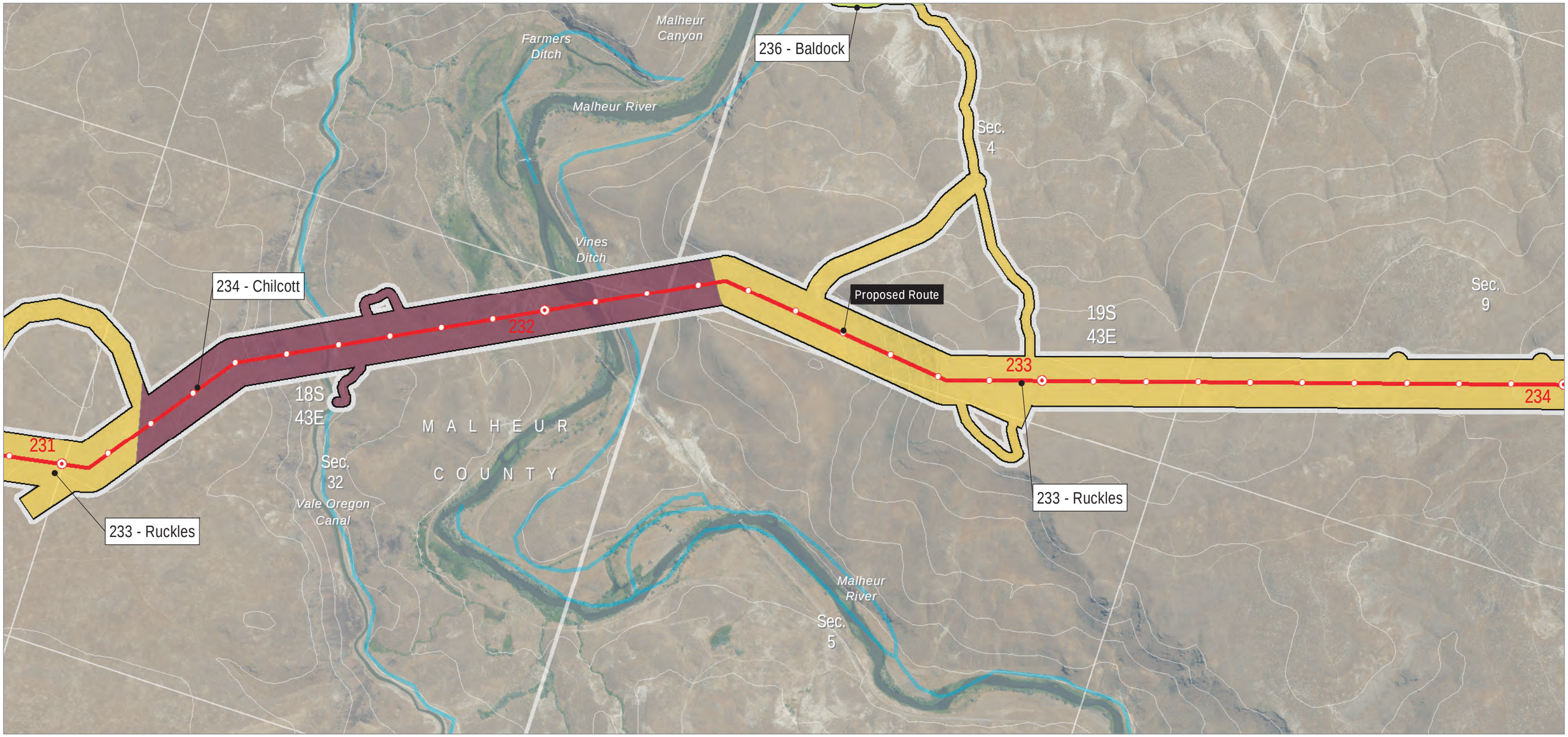
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 114



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 233 - Ruckles
- 234 - Chilcott
- 236 - Baldock

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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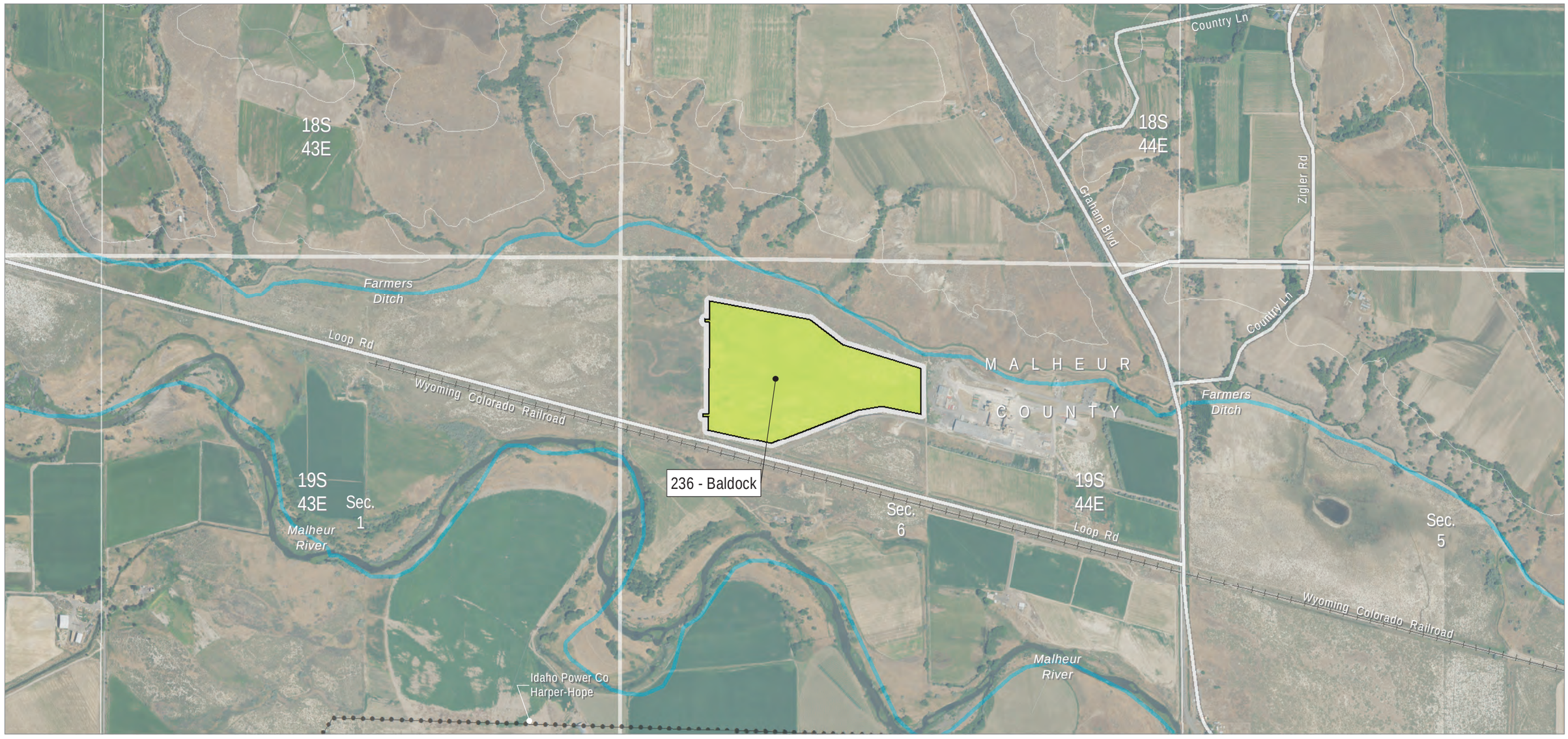
Attachment I-1
Soil Mapping Units

Malheur County

Map 115



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
236 - Baldock
Project Features
Site Boundary
Other Features
100-foot Contours
Existing Transmission Lines
Road
Railroad
Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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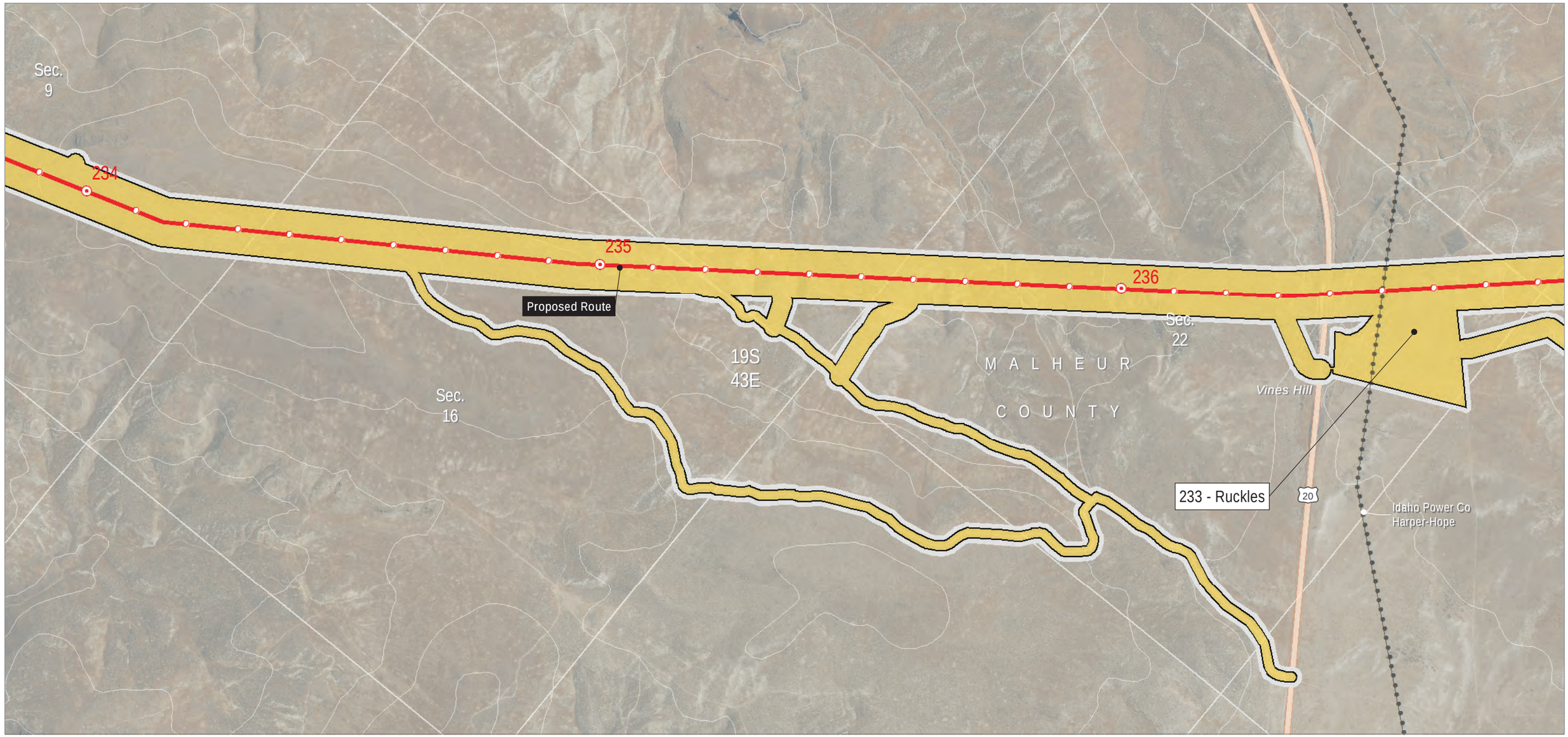
Attachment I-1
Soil Mapping Units

Malheur County

Map 116



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles
Project Features
Site Boundary
Transmission Centerline
Mileposts
Mile
Tenth-mile
Other Features
100-foot Contours

Existing Transmission Lines
Highway

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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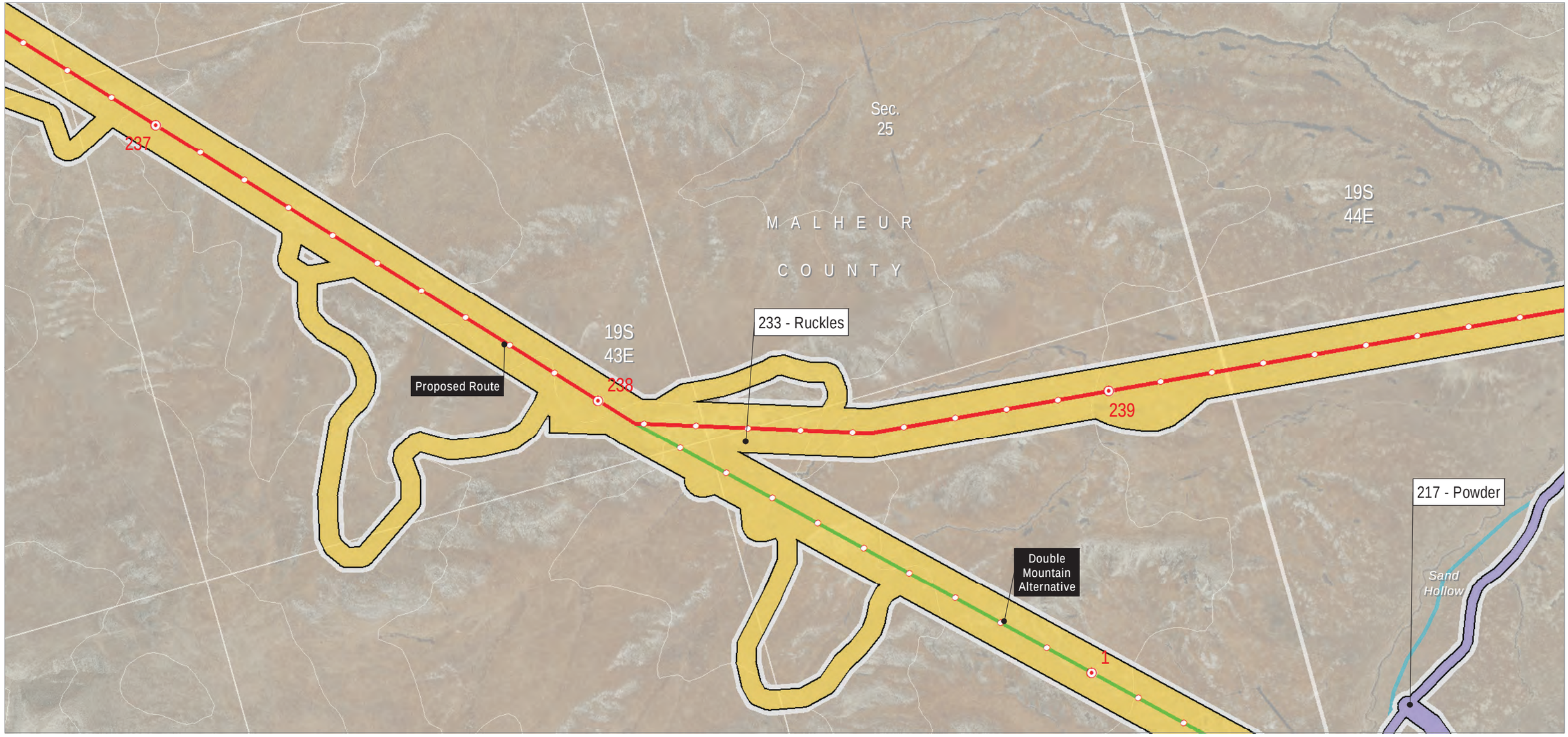
Attachment I-1
Soil Mapping Units

Malheur County

Map 117



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 217 - Powder
- 233 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline
- Alternative

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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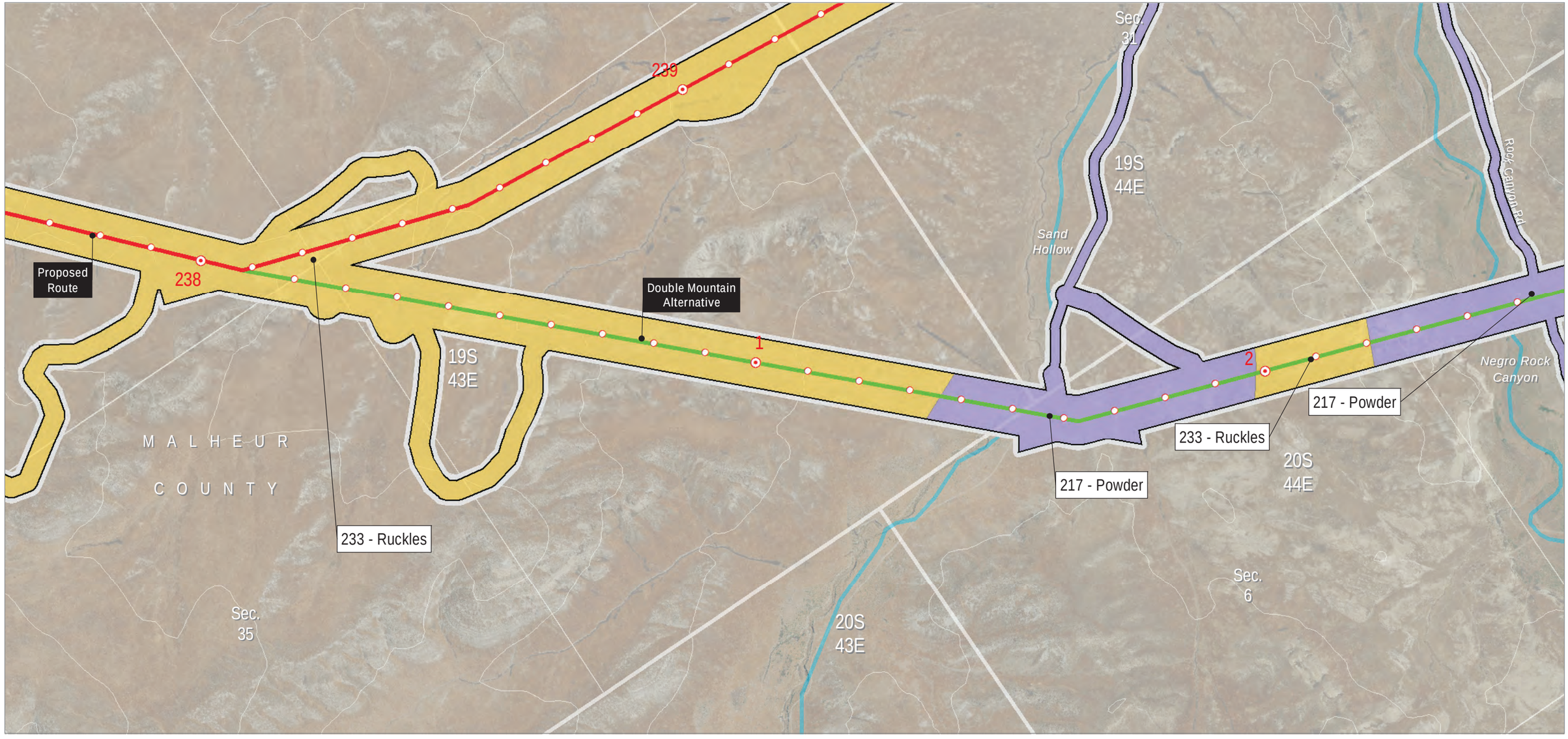
Attachment I-1
Soil Mapping Units

Malheur County

Map 118



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 217 - Powder
- 233 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline
- Alternative

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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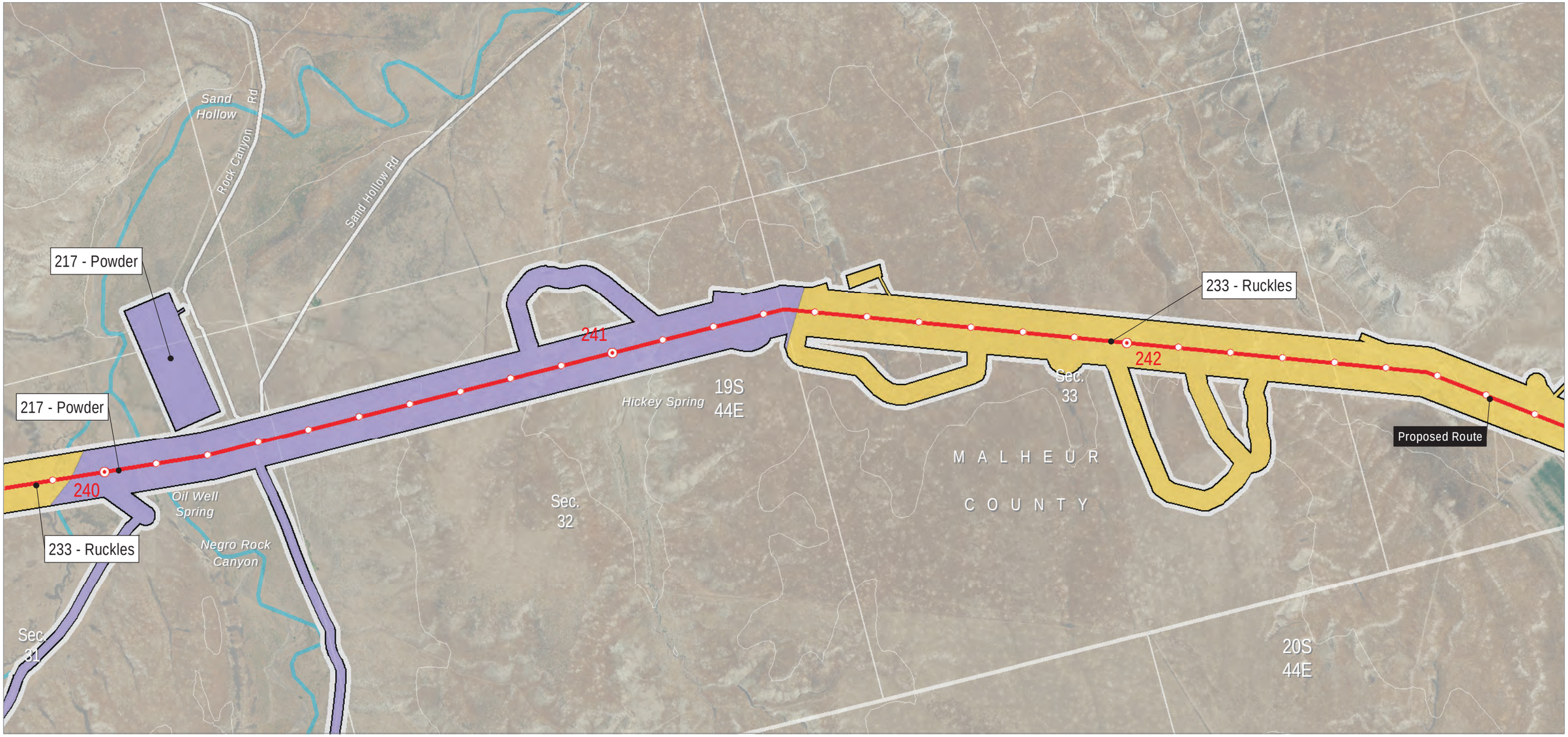
Attachment I-1
Soil Mapping Units

Malheur County

Map 119



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 217 - Powder
- 233 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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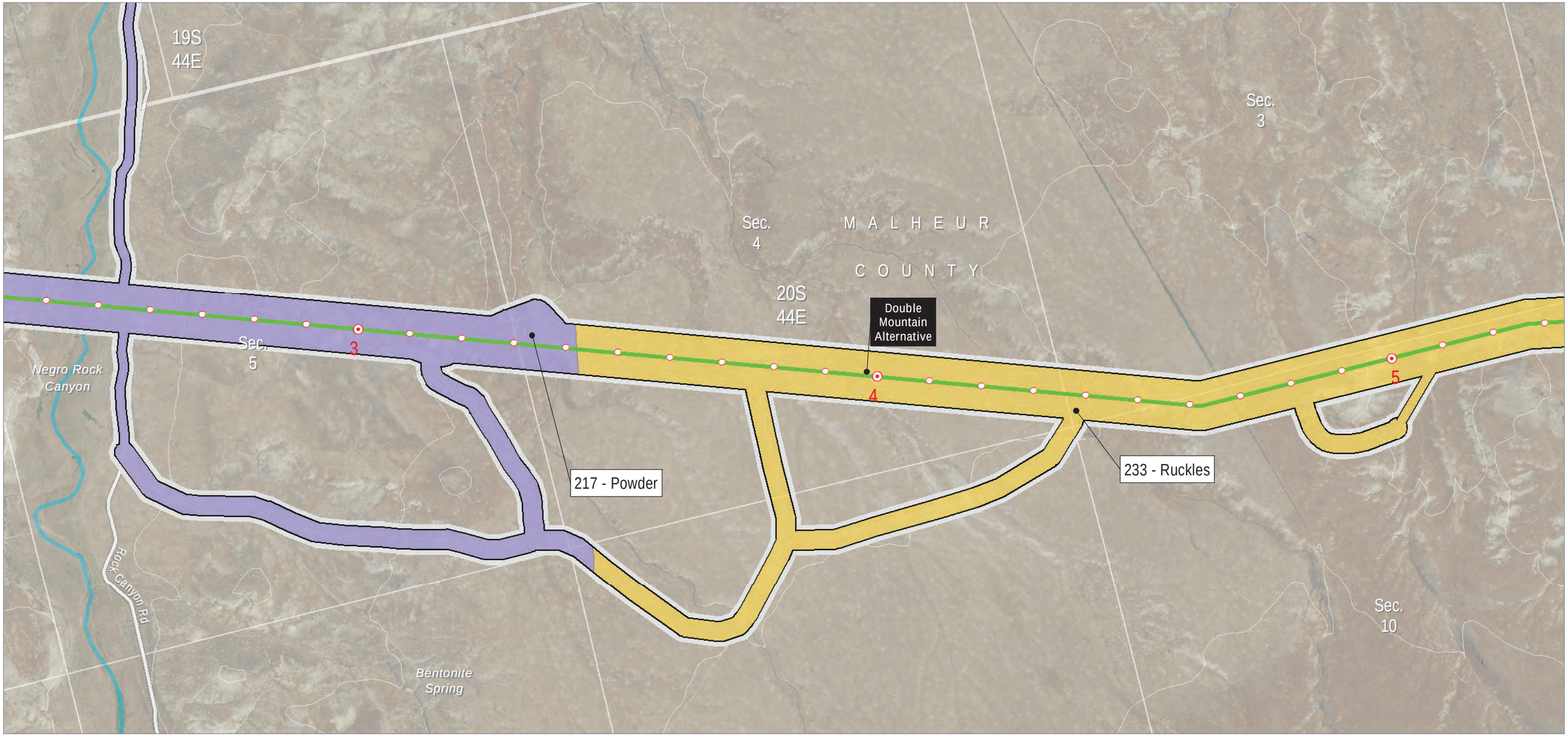
Attachment I-1
Soil Mapping Units

Malheur County

Map 120



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 217 - Powder
- 233 - Ruckles

Project Features
- Site Boundary
- Alternative

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

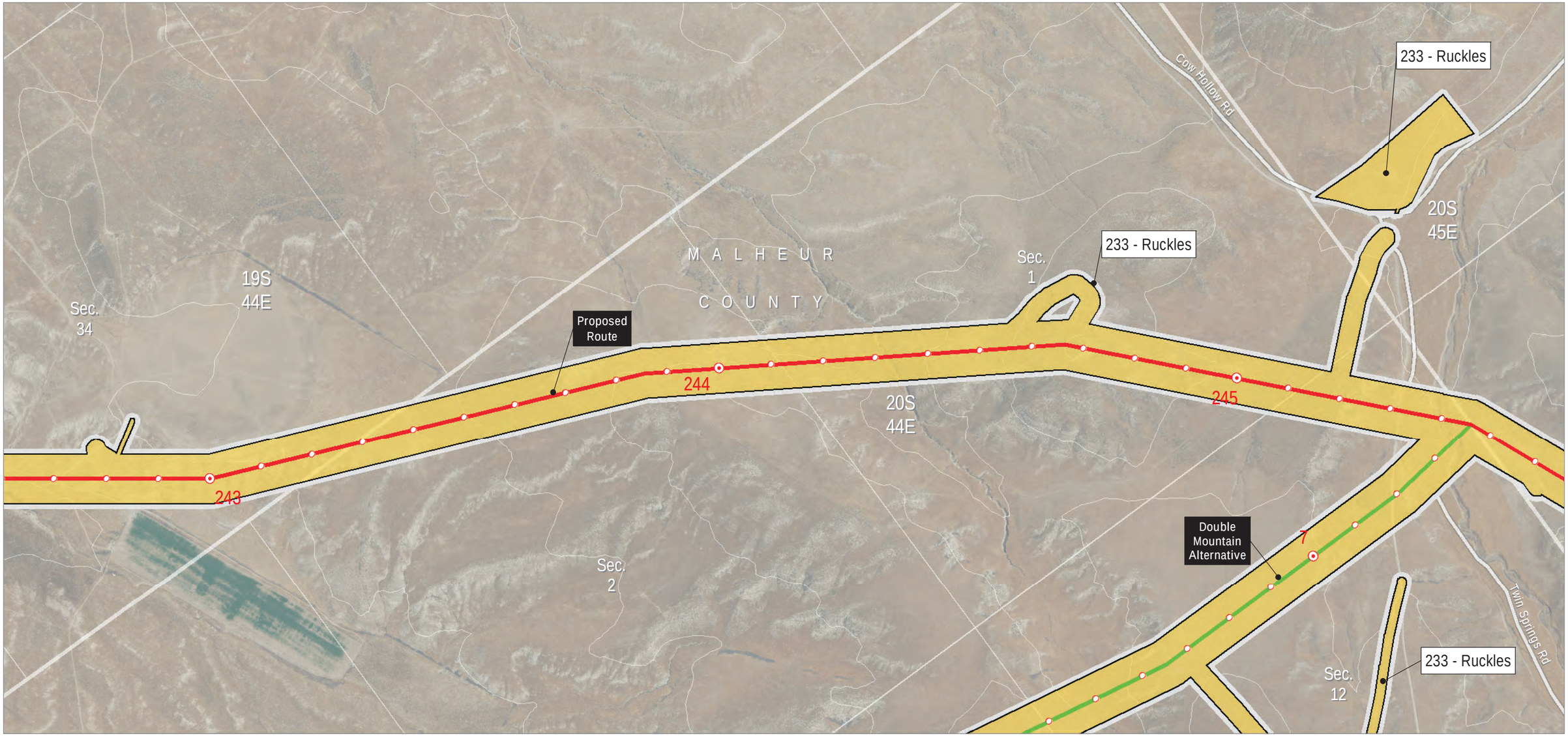
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 121



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles

Project Features
Site Boundary
Transmission Centerline
Alternative

Mileposts
Mile
Tenth-mile

Other Features
100-foot Contours
Road

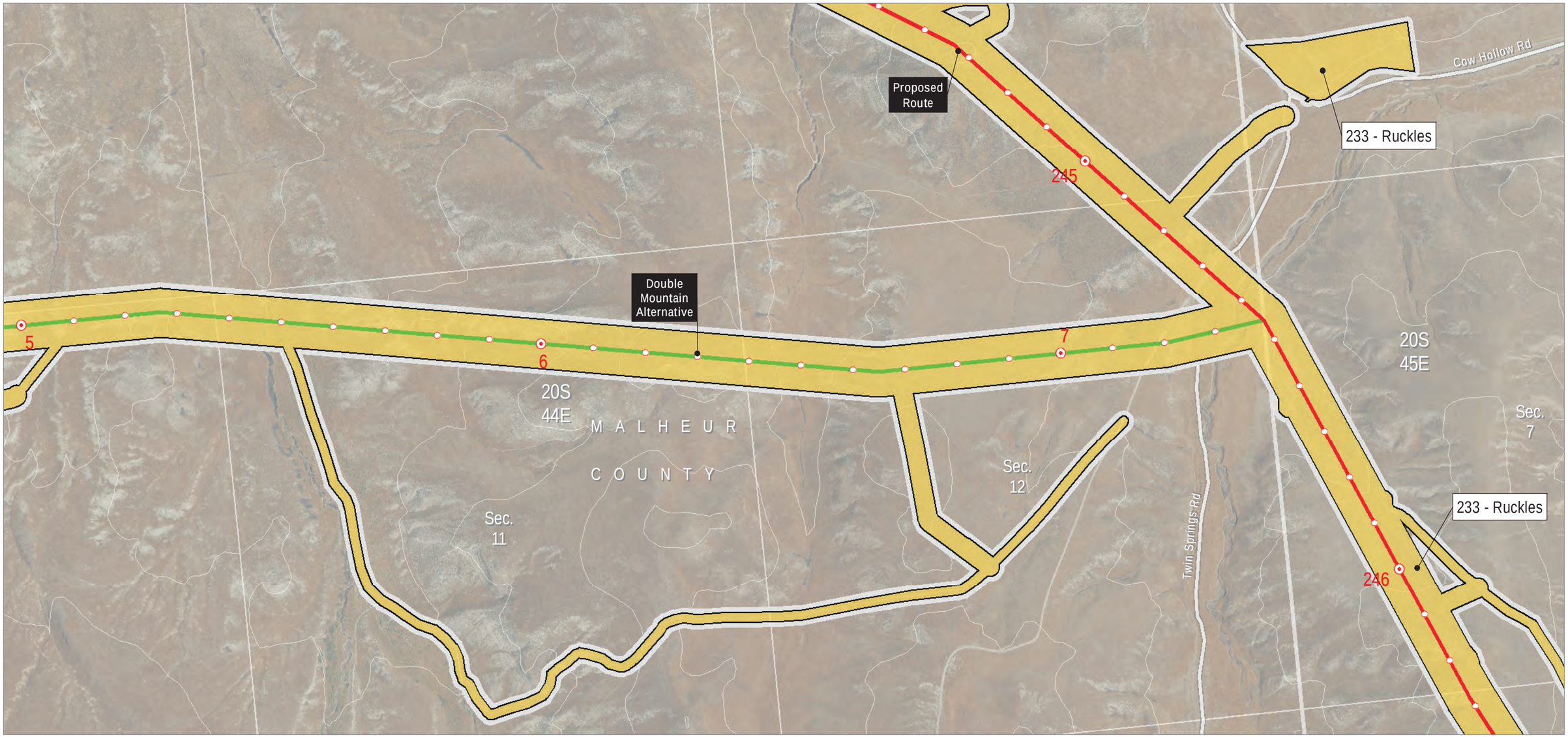
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 122



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 233 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline
- Alternative

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road

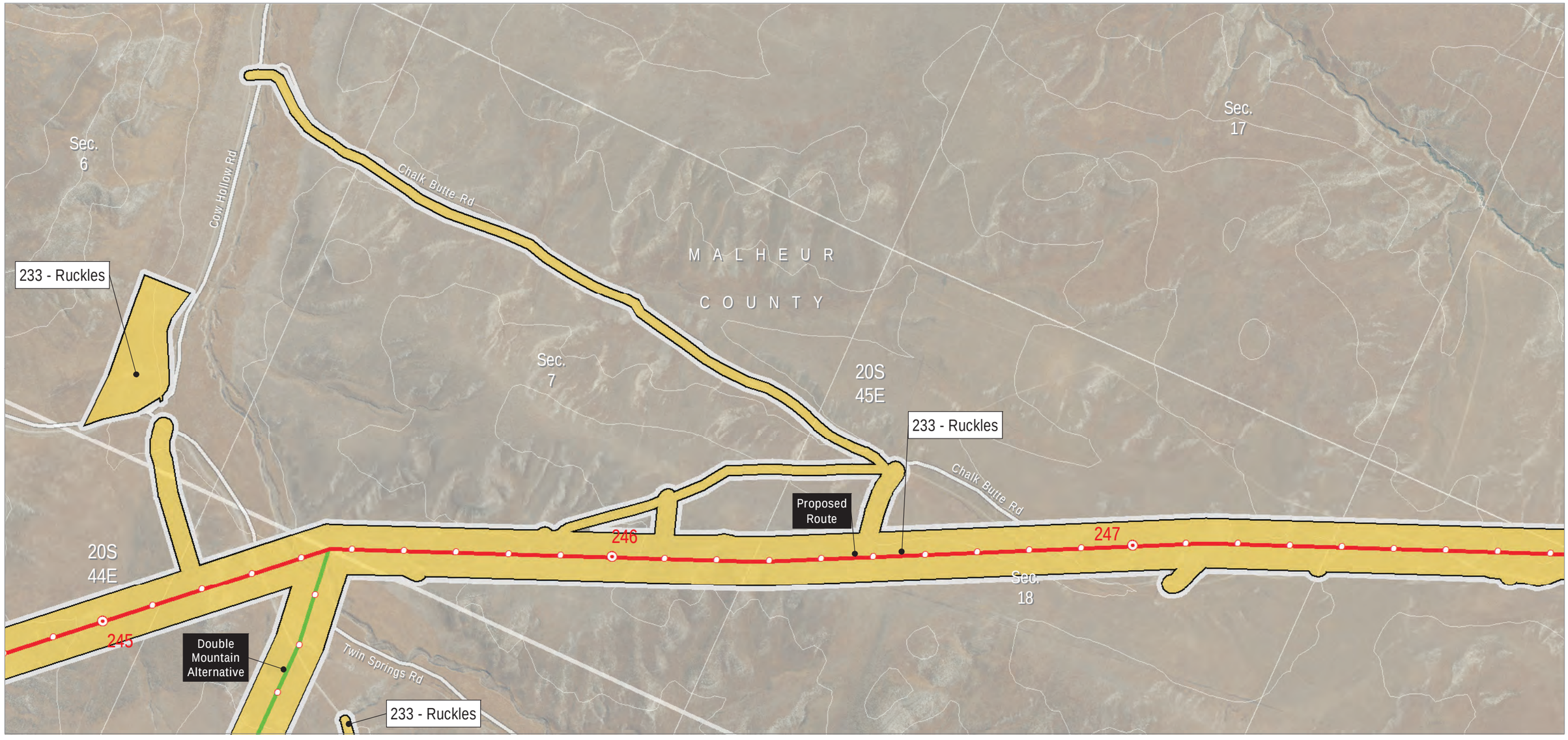
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 123



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles

Project Features
Site Boundary
Transmission Centerline
Alternative

Mileposts
Mile
Tenth-mile

Other Features
100-foot Contours
Road

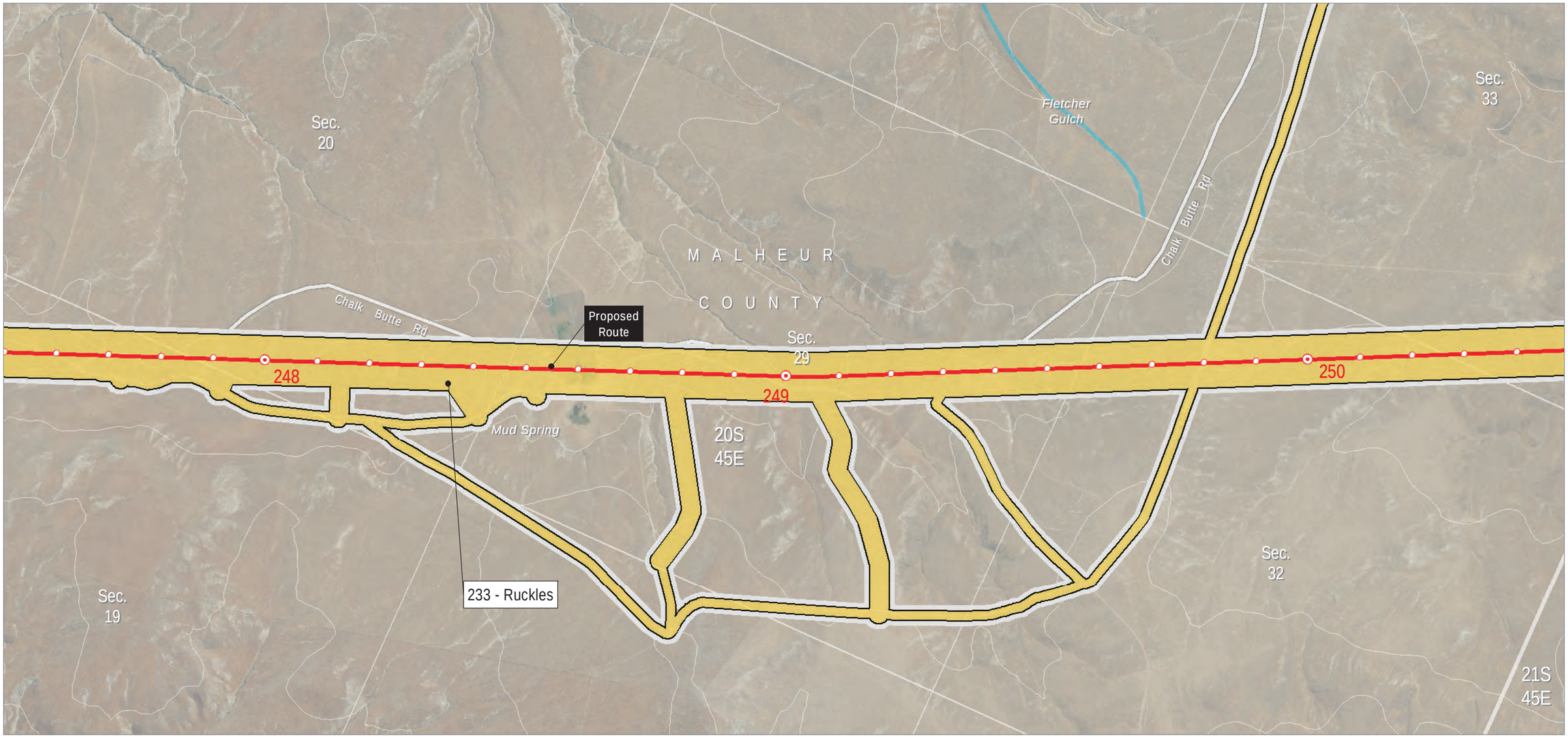
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 124



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles
Project Features
Site Boundary
Transmission Centerline
Mileposts
Mile
Tenth-mile
Other Features
100-foot Contours
Road
Stream

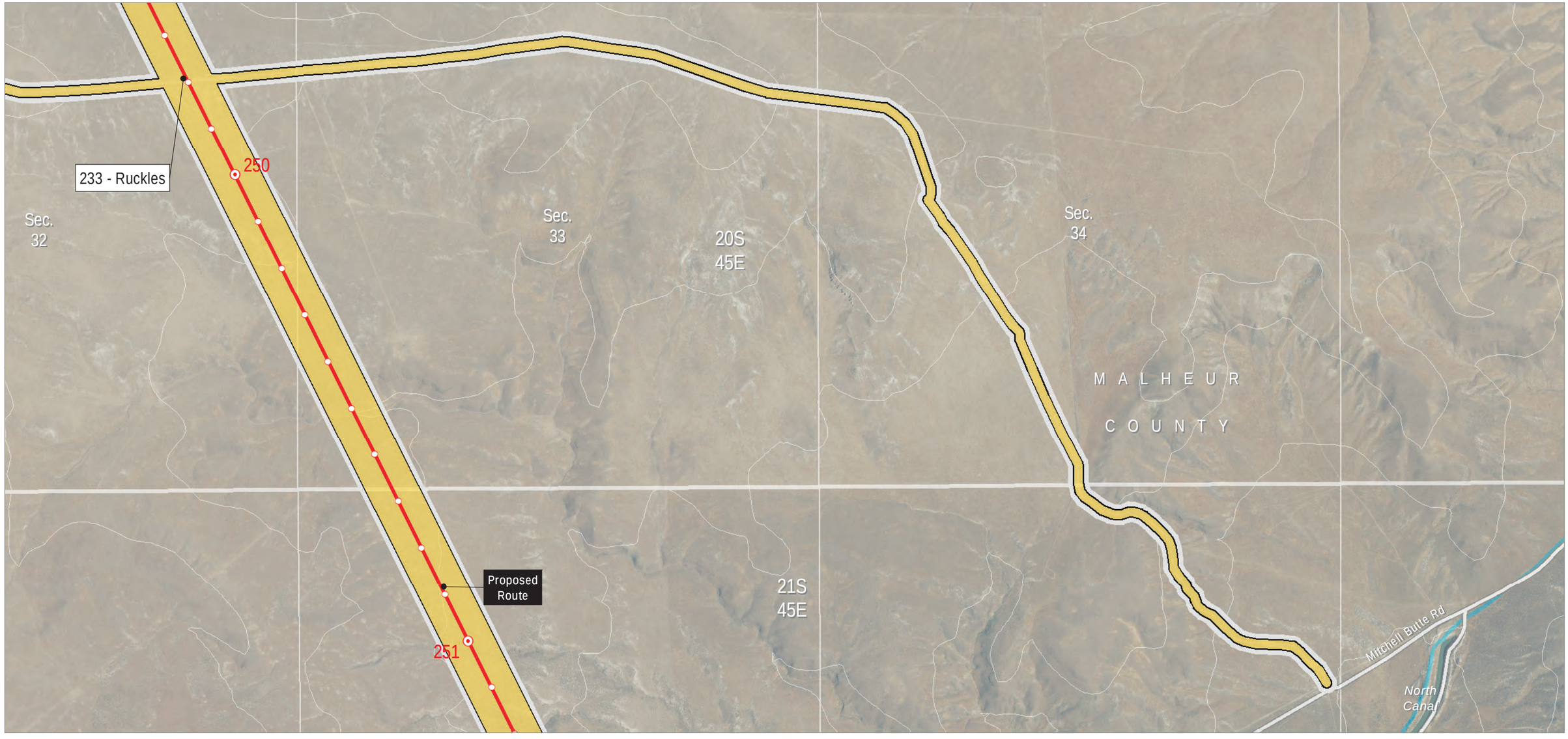
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 125



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles
Project Features
Site Boundary
Transmission Centerline
Mileposts
Mile
Tenth-mile
Other Features
100-foot Contours
Road
Stream

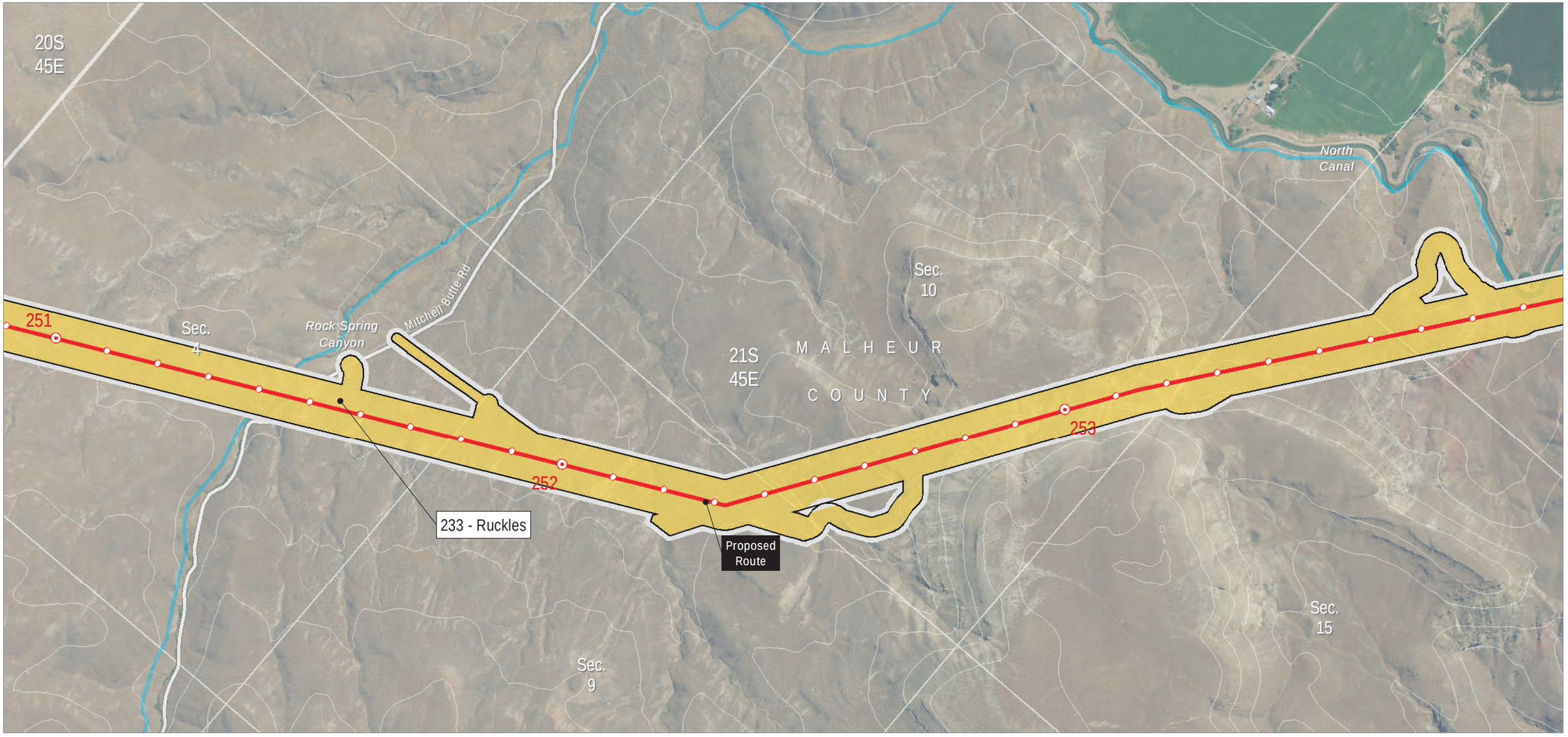
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 126



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles

Project Features
Site Boundary
Transmission Centerline

Mileposts
Mile
Tenth-mile

Other Features
100-foot Contours
Road
Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
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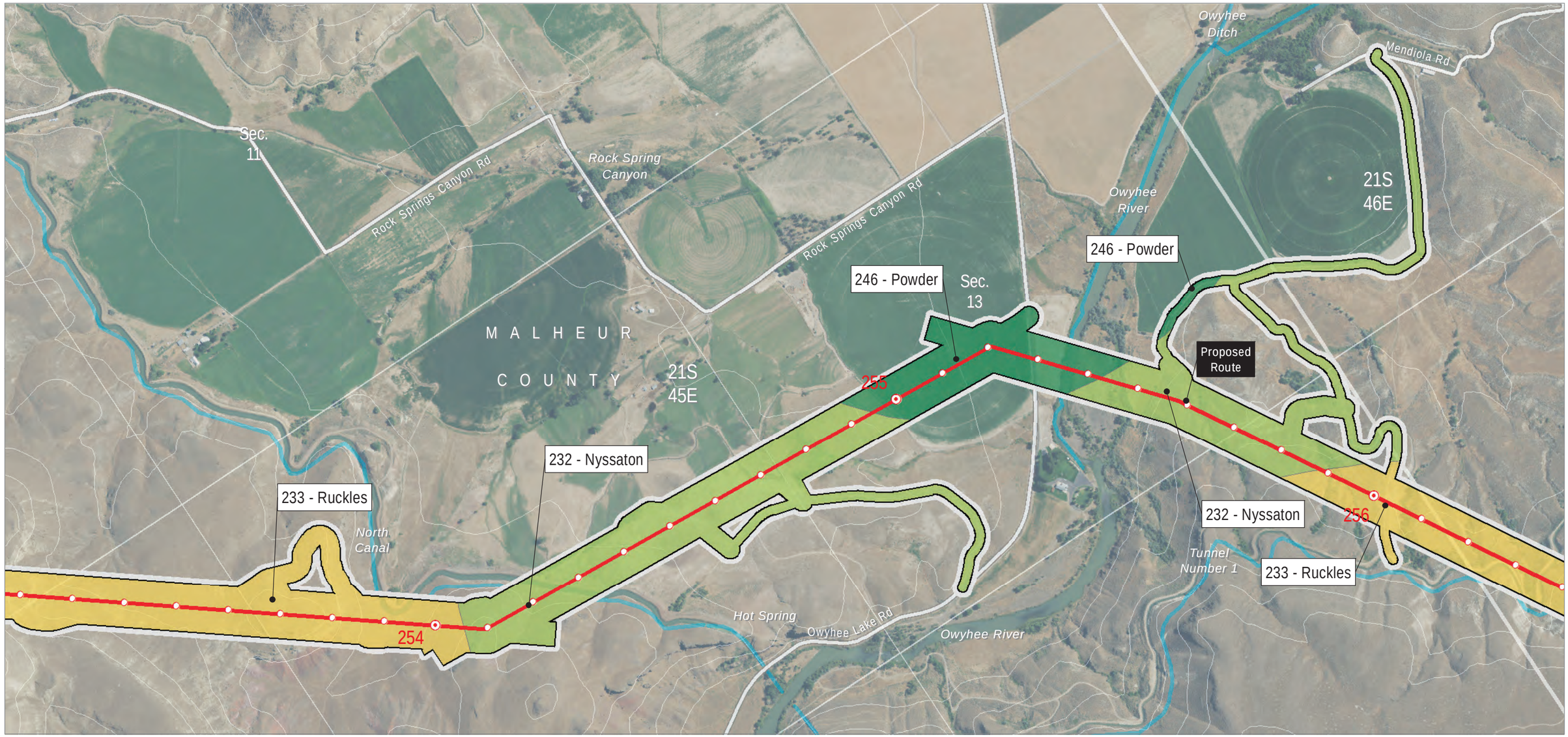
Attachment I-1
Soil Mapping Units

Malheur County

Map 127



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 232 - Nyssaton
- 233 - Ruckles
- 246 - Powder

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

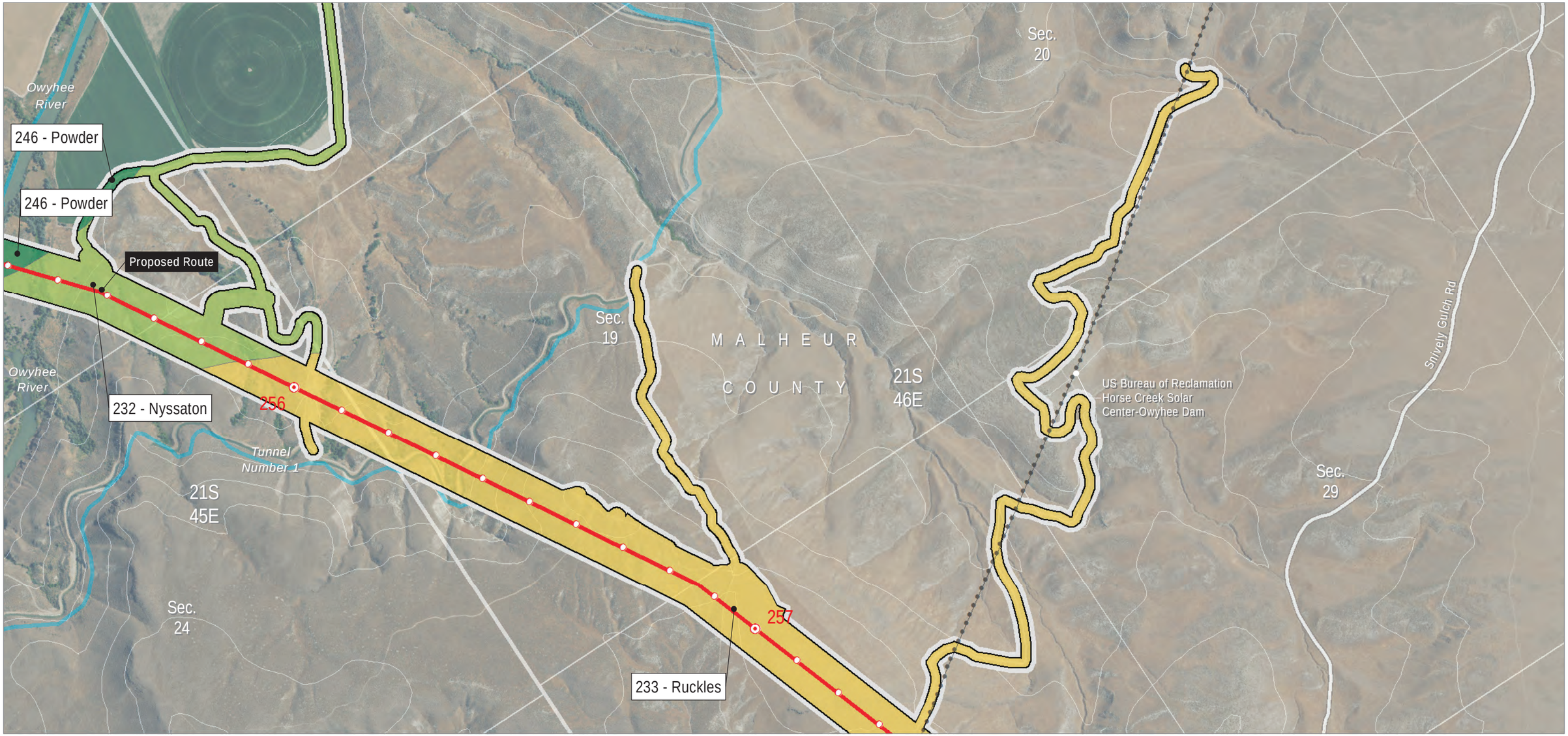
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 128



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 232 - Nyssaton
- 233 - Ruckles
- 246 - Powder

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

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

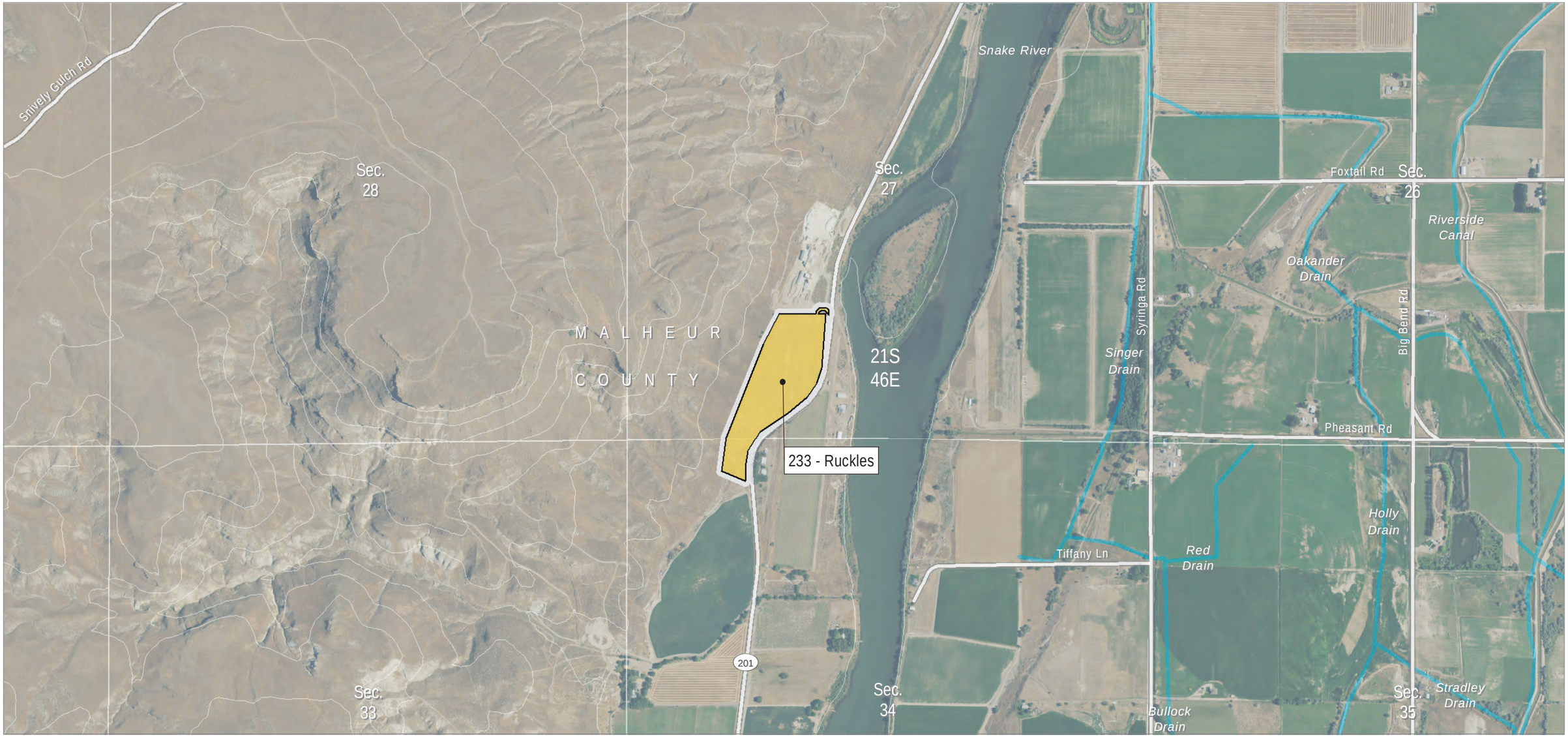
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 129



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
233 - Ruckles
Project Features
Site Boundary
Other Features
100-foot Contours
Road
Stream

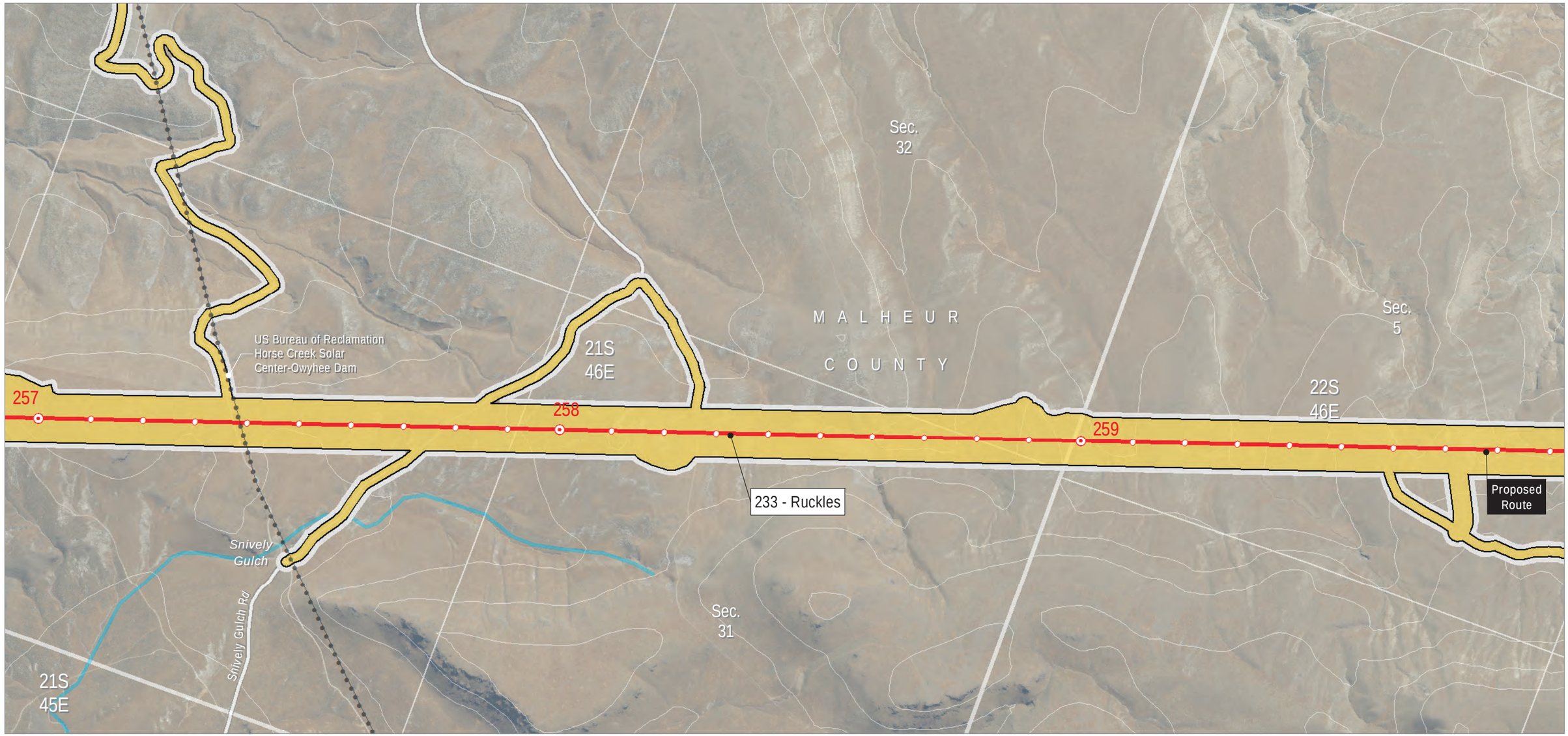
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 130



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 233 - Ruckles

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

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

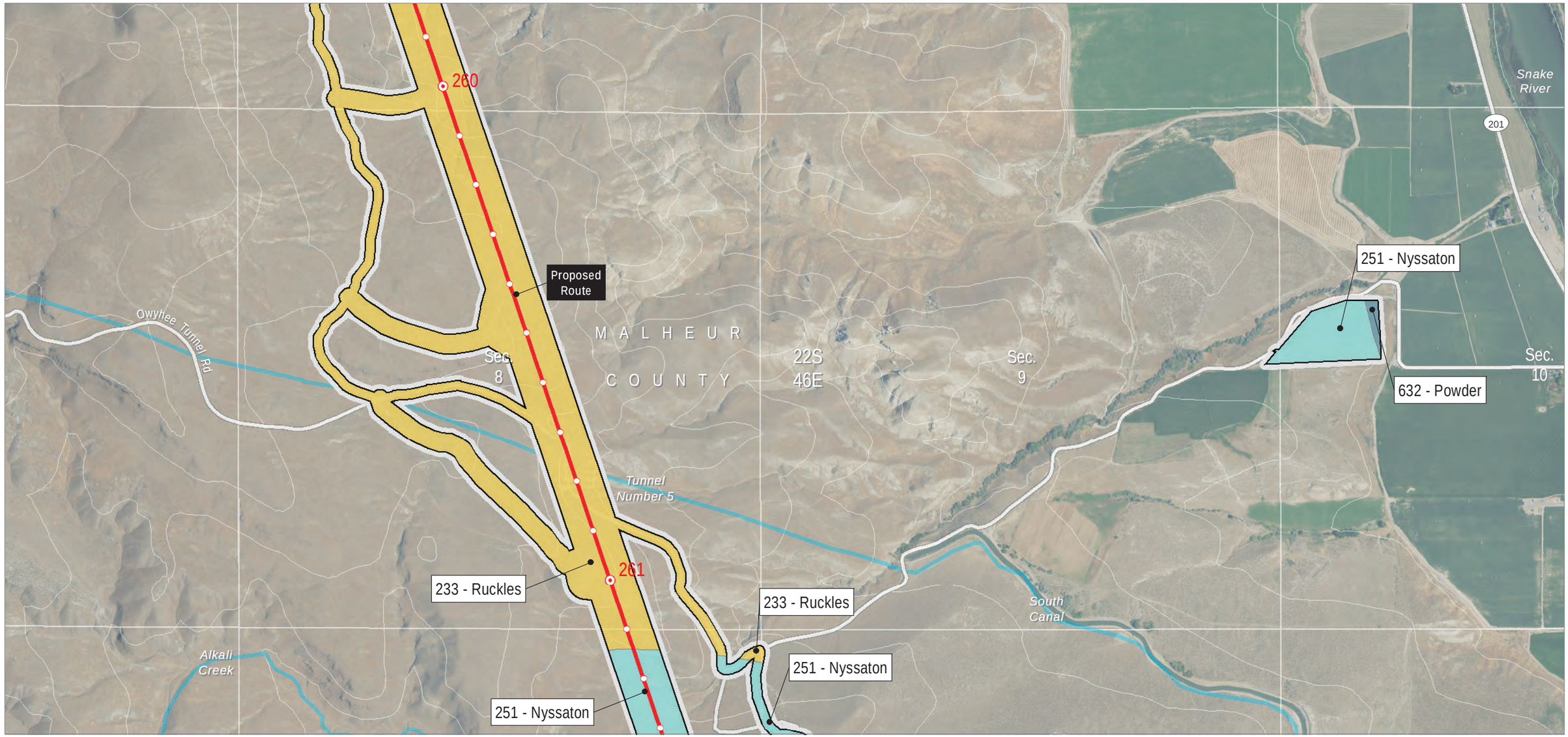
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 131



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 233 - Ruckles
- 251 - Nyssaton
- 632 - Powder

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

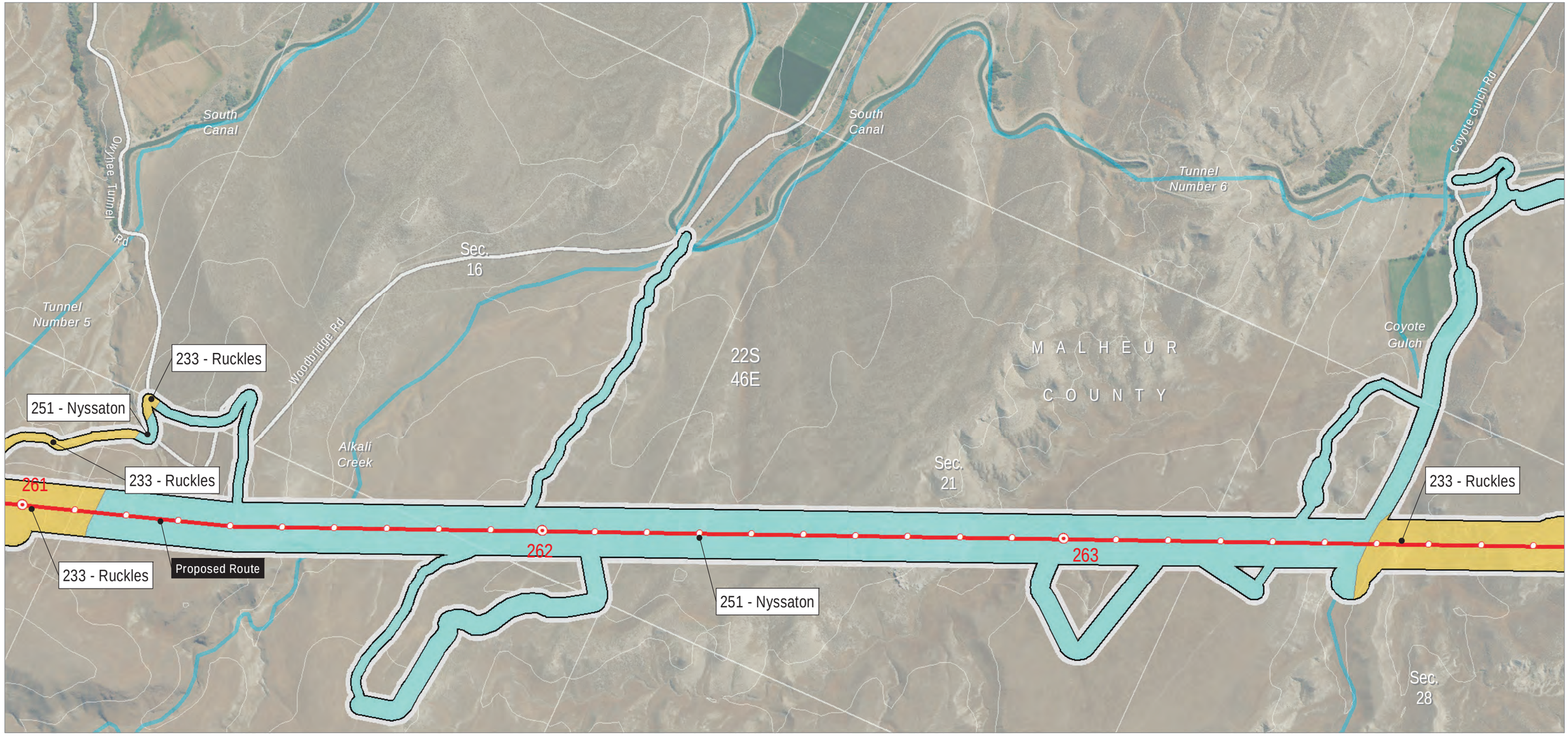
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 132



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units
STATSGO Soil Factors
- 233 - Ruckles
- 251 - Nyssaton

Project Features
- Site Boundary
- Transmission Centerline

Mileposts
- Mile
- Tenth-mile

Other Features
- 100-foot Contours
- Road
- Stream

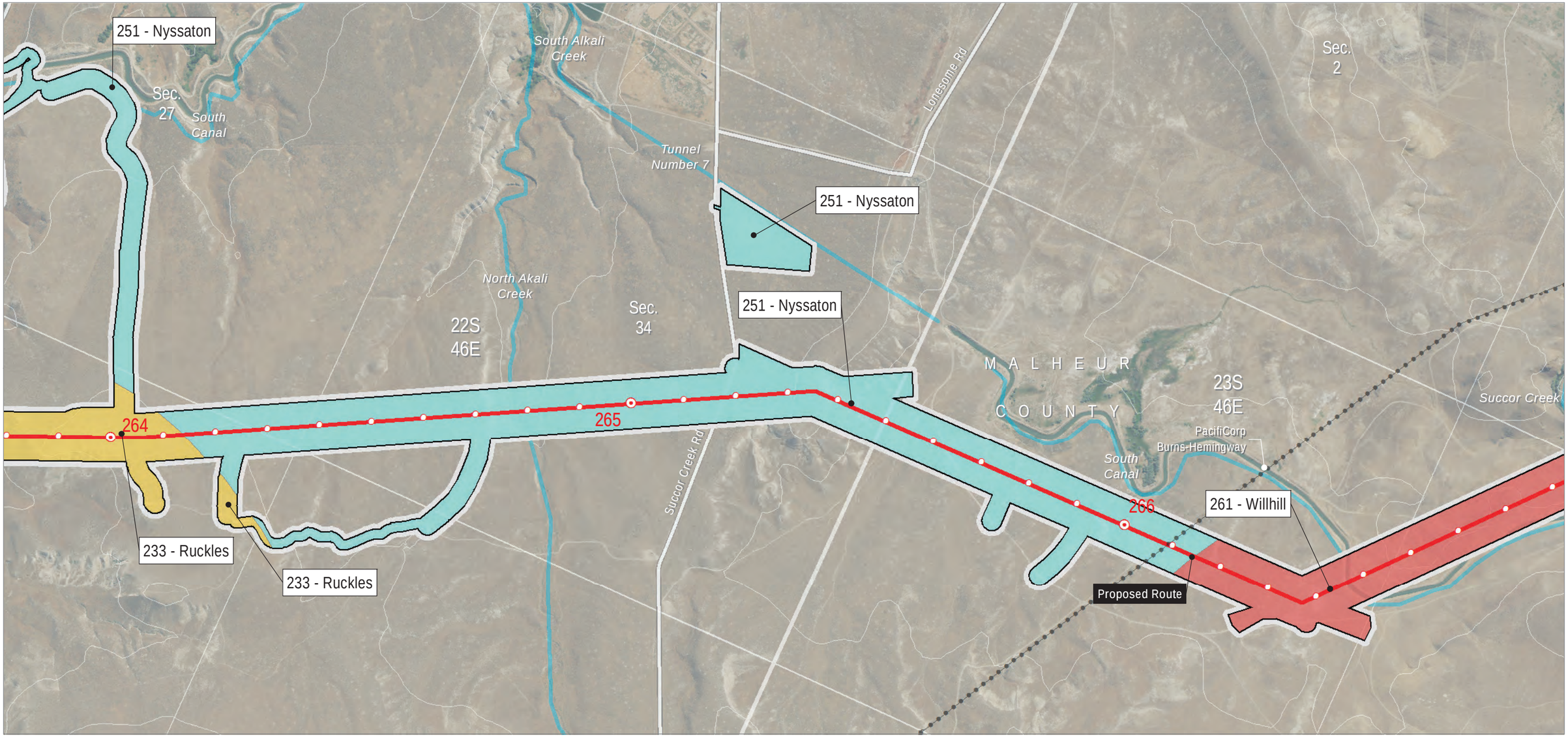
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 133



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OREGON

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

- 233 - Ruckles
- 251 - Nyssaton
- 261 - Willhill

Project Features

- Site Boundary
- Transmission Centerline

Mileposts

- Mile
- Tenth-mile

Other Features

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

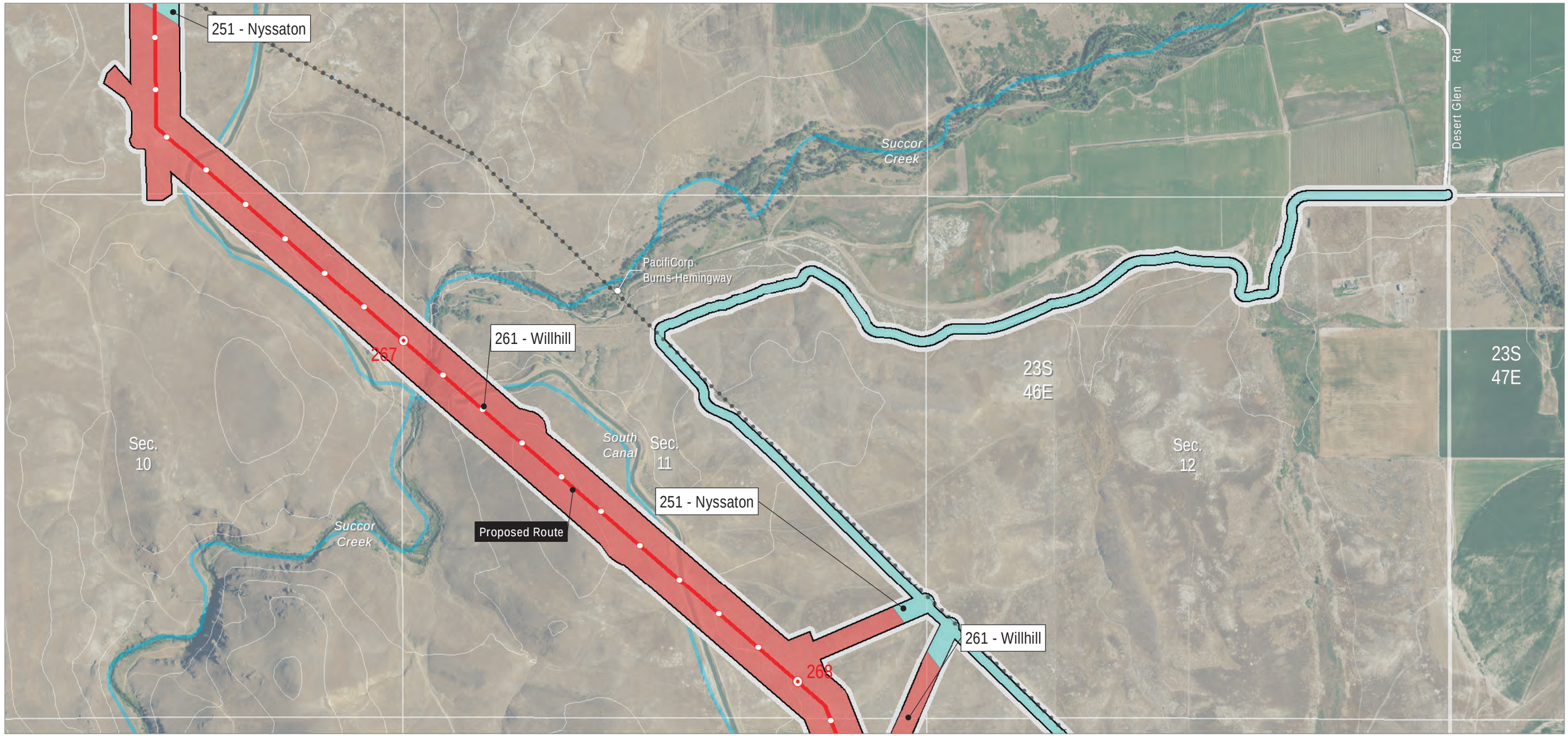
Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 134



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Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

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Soil Mapping Units

STATSGO Soil Factors

- 251 - Nyssaton
- 261 - Willhill

Project Features

- Site Boundary
- Transmission Centerline

Mileposts

- Mile
- Tenth-mile

Other Features

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

Boardman to Hemingway Transmission Line Project

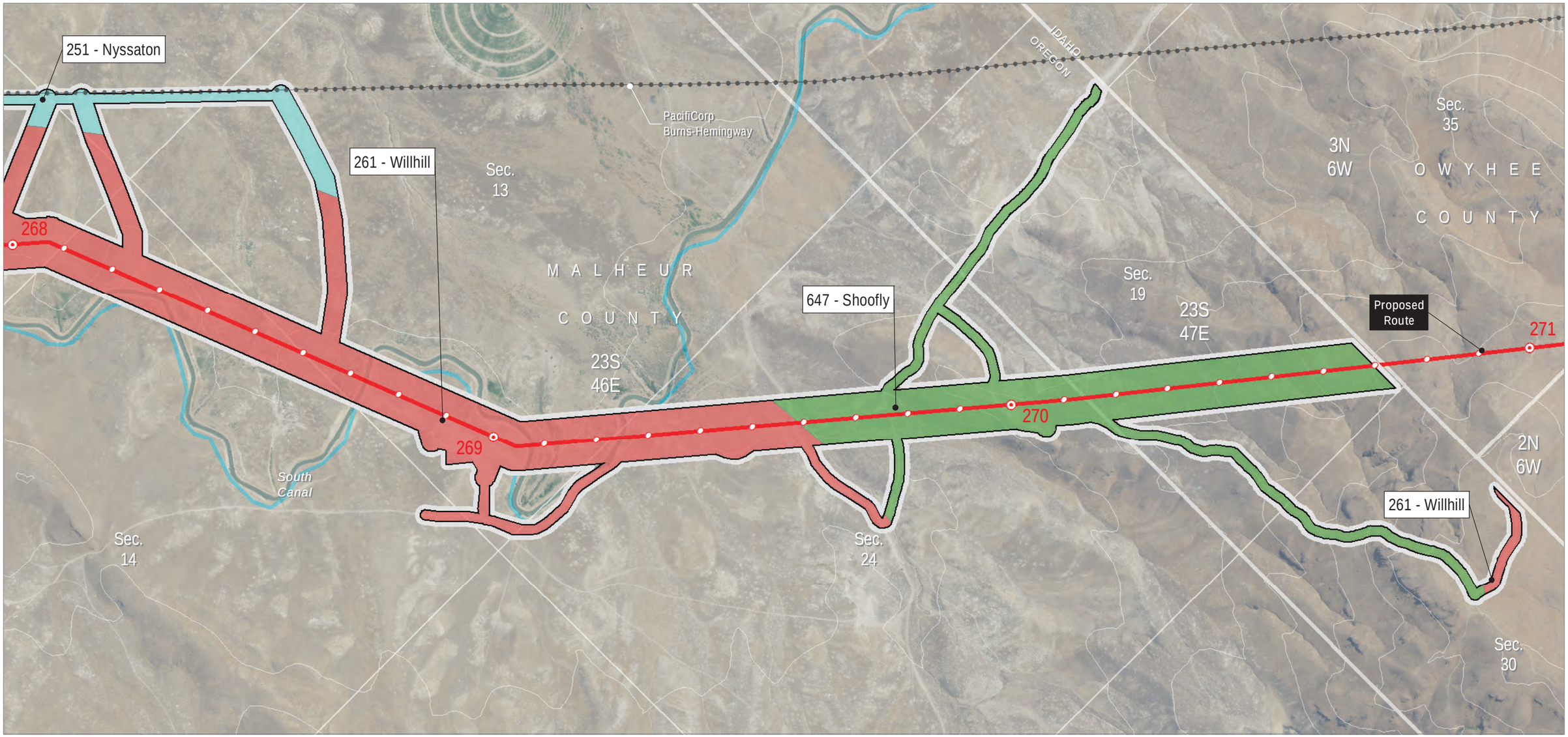
Application for Site Certificate

IDAHO POWER. An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 135



0 1,000
Feet

Map Area

Source(s): IPC, ODOT, NRCS, USDA, USGS, Ventyx, Esri

Z:\UtilServ\Boardman_Hemingway\Reports\002_Oregon_Energy_Siting_Council\03_Final ASC\Exhibits\I_Soils\Maps\Soils_MALHEUR_rev 20180615.mxd

Soil Mapping Units

STATSGO Soil Factors

- 251 - Nyssaton
- 261 - Willhill
- 647 - Shoofly

Project Features

- Site Boundary
- Transmission Centerline

Mileposts

- Mile
- Tenth-mile

Other Features

- 100-foot Contours
- Existing Transmission Lines
- Stream

Boardman to Hemingway Transmission Line Project
Application for Site Certificate

IDAHO POWER
An IDACORP Company

Attachment I-1
Soil Mapping Units

Malheur County

Map 136

ATTACHMENT I-2
TABLE OF SOIL MAPPING UNITS

Table I-2-1. Soil Properties by Soil Map Unit

County	Soil ID	Soil Name	Extent (% of survey area)	Acres in Boundary	Wind Erodibility	K Factor	Slope %	T Factor	Stony/ Rocky	Droughty	Depth to Bedrock (inches)
Morrow	**Proposed Total Length - Morrow County**										
	42	Quincy	13.0%	406.2	2	0.32	3	5	No	Yes	74
	43	Warden	8.1%	252.5	3	0.55	4	5	No	Yes	58
	44	Ritzville	20.5%	643.1	5	0.49	19	5	No	No	38
	45	Morrow	38.8%	1215.1	6	0.37	4	2	No	No	25
	46	Hermiston	4.2%	130.1	5	0.37	2	5	No	No	NA
	47	Lickskillet	14.4%	452.3	8	0.32	23	1	Yes	Yes	25
	81	Warden	0.0%	1.1	3	0.55	4	5	No	Yes	58
	83	Warden	0.9%	27.5	3	0.55	4	5	No	Yes	58
	86	Warden	0.2%	5.6	3	0.55	4	5	No	Yes	58
	Total Acres		***100.0%***	***3133.6***							
	West of Bombing Range Road Alternative 1 - Morrow County										
	78	Warden	59.7%	59.0	3	0.55	4	5	No	Yes	58
	80	Warden	1.1%	1.1	3	0.55	4	5	No	Yes	58
	84	Warden	5.7%	5.6	3	0.55	4	5	No	Yes	58
	8	Warden	33.5%	33.1	3	0.55	4	5	No	Yes	58
	Total Acres		***100.0%***	***98.7***							
	West of Bombing Range Road Alternative 2 - Morrow County										
	82	Warden	29.8%	27.5	3	0.55	4	5	No	Yes	58
	9	Warden	0.0%	0.0	3	0.55	4	5	No	Yes	58
	79	Warden	64.1%	59.0	3	0.55	4	5	No	Yes	58
	85	Warden	6.1%	5.6	3	0.55	4	5	No	Yes	58
	Total Acres		***100.0%***	***92.1***							
Umatilla	**Proposed Total Length - Umatilla County**										
	28	Gurdane	32.2%	1077.8	6	0.43	16	2	No	No	15
	29	Quincy	1.1%	37.7	2	0.32	3	5	No	Yes	74
	30	Hall Ranch	23.2%	777.5	7	0.37	24	3	Yes	Yes	41
	31	Morrow	29.7%	994.4	6	0.37	4	2	No	No	25
	32	Tolo	10.9%	365.6	5	0.43	53	5	No	No	38
	33	Hermiston	2.6%	87.9	5	0.37	2	5	No	No	NA
	34	Pilot Rock	0.3%	11.4	5	0.43	4	2	No	No	NA
	Total Acres		***100.0%***	***3352.3***							

County	Soil ID	Soil Name	Extent (% of survey area)	Acres in Boundary	Wind Erodibility	K Factor	Slope %	T Factor	Stony/ Rocky	Droughty	Depth to Bedrock (inches)
Union	**Proposed Total Length - Union County**										
	35	Hall Ranch	37.1%	1085.6	7	0.37	24	3	Yes	Yes	41
	36	Gwinly	29.1%	851.6	8	0.37	24	1	Yes	Yes	38
	37	La Grande	4.2%	122.4	6	0.28	1	5	No	No	NA
	38	Ruckles	23.1%	676.5	8	0.33	7	1	Yes	Yes	41
	39	Coughanour	2.9%	85.1	6	0.37	5	3	No	No	NA
	40	Wingville	0.9%	25.4	6	0.28	1	5	No	No	NA
	41	Coughanour	1.3%	38.5	6	0.37	5	3	No	No	NA
	73	Gwinly	1.0%	30.4	8	0.37	24	1	Yes	Yes	38
	75	La Grande	0.4%	10.7	6	0.28	1	5	No	No	NA
	77	Ruckles	0.1%	2.5	8	0.33	7	1	Yes	Yes	41
	Total Acres		***100.0%***	***2928.7***							
	Morgan Lake Alternative - Union County										
	4	Hall Ranch	32.4%	460.0	7	0.37	24	3	Yes	Yes	41
	5	Gwinly	41.4%	587.1	8	0.37	24	1	Yes	Yes	38
	6	La Grande	11.3%	160.0	6	0.28	1	5	No	No	NA
	7	Klicker	11.8%	167.4	6	0.32	24	2	Yes	Yes	43
	72	Gwinly	2.1%	30.4	8	0.37	24	1	Yes	Yes	38
	74	La Grande	0.8%	10.7	6	0.28	1	5	No	No	NA
	76	Ruckles	0.2%	2.5	8	0.33	7	1	Yes	Yes	41
	Total Acres		***100.0%***	***1418.0***							
Baker	**Proposed Total Length - Baker County**										
	10	Ruckles	9.9%	541.3	8	0.33	7	1	Yes	Yes	41
	11	Wingville	4.3%	235.8	6	0.28	1	5	No	No	NA
	12	Ateron	3.1%	170.7	8	0.43	7	1	Yes	Yes	43
	13	Ateron	18.4%	1000.3	8	0.43	7	1	Yes	Yes	43
	14	Ruckles	0.9%	51.2	8	0.33	7	1	Yes	Yes	41
	15	Ateron	6.5%	356.8	8	0.43	7	1	Yes	Yes	43
	16	Coughanour	2.7%	146.4	6	0.37	5	3	No	No	NA
	17	Coughanour	3.2%	172.3	6	0.37	5	3	No	No	NA
	18	Ateron	2.1%	114.3	8	0.43	7	1	Yes	Yes	43
	19	Hyall	3.2%	175.3	8	0.32	48	5	Yes	Yes	74
	20	Ruckles	0.8%	46.3	8	0.33	7	1	Yes	Yes	41
	21	Hyall	16.2%	882.5	8	0.32	48	5	Yes	Yes	74
	22	Durkee	4.1%	226.1	7	0.28	7	2	Yes	Yes	43
	23	Ruckles	2.7%	145.4	8	0.33	7	1	Yes	Yes	41

County	Soil ID	Soil Name	Extent (% of survey area)	Acres in Boundary	Wind Erodibility	K Factor	Slope %	T Factor	Stony/ Rocky	Droughty	Depth to Bedrock (inches)
	24	Snaker	15.2%	825.7	8	0.32	40	1	Yes	Yes	41
	25	Hyall	0.4%	21.2	8	0.32	48	5	Yes	Yes	74
	26	Ruckles	2.0%	106.6	8	0.33	7	1	Yes	Yes	41
	27	Hyall	4.2%	230.2	8	0.32	48	5	Yes	Yes	74
		Total Acres	***100.0%***	***5448.4***							
Malheur	**Proposed Total Length - Malheur County**										
	48	Ruckles	0.8%	47.2	8	0.33	7	1	Yes	Yes	41
	49	Poall	14.2%	835.7	3	0.43	7	3	No	Yes	4
	50	Powder	4.7%	278.9	4L	0.37	1	5	No	No	77
	51	Chilcott	1.7%	100.0	5	0.49	4	2	No	No	NA
	52	Chilcott	7.2%	423.3	5	0.49	4	2	No	No	NA
	53	Poall	4.2%	249.4	3	0.43	7	3	No	Yes	4
	54	Nyssaton	2.0%	116.5	4L	0.49	1	5	No	No	77
	55	Ruckles	39.5%	2323.7	8	0.33	7	1	Yes	Yes	41
	56	Chilcott	1.3%	74.2	5	0.49	4	2	No	No	NA
	57	Baldock	0.8%	49.6	4L	0.32	1	5	No	No	77
	58	Powder	0.6%	33.6	4L	0.37	1	5	No	No	77
	59	Nyssaton	7.6%	446.0	4L	0.49	1	5	No	No	77
	60	Willhill	4.2%	245.3	6	0.31	14	2	Yes	Yes	30
	61	Hyall	8.5%	498.8	8	0.32	48	5	Yes	Yes	74
	62	Powder	0.0%	1.0	4L	0.37	1	5	No	No	77
	63	Shoofly	1.5%	91.0	6	0.33	2	1	Yes	No	35
	65	Powder	0.3%	15.8	4L	0.37	1	5	No	No	77
	67	Poall	0.0%	2.8	3	0.43	7	3	No	Yes	4
	69	Ruckles	0.9%	54.7	8	0.33	7	1	Yes	Yes	41
		Total Acres	***100.0%***	***5887.6***							
	Double Mountain Alternative										
	68	Ruckles	8.0%	54.7	8	0.33	7	1	Yes	Yes	41
	66	Poall	0.4%	2.8	3	0.43	7	3	No	Yes	4
	64	Powder	2.3%	15.8	4L	0.37	1	5	No	No	77
	1	Powder	27.0%	184.0	4L	0.37	1	5	No	No	77
	2	Poall	0.0%	0.0	3	0.43	7	3	No	Yes	4
	3	Ruckles	62.3%	424.6	8	0.33	7	1	Yes	Yes	41
		Total Acres	***100.0%***	***681.9***							

ATTACHMENT I-3
1200-C PERMIT APPLICATION AND DRAFT EROSION AND SEDIMENT CONTROL PLAN

May 3, 2012

Ms. Jackie Ray
Oregon Department of Environmental Quality
700 SE Emigrant, Suite 330
Pendleton, OR 97801

Dear Ms. Ray:

Idaho Power Company (IPC) proposes to construct an overhead, high-voltage transmission line, known as the Boardman to Hemingway Transmission Line Project (Project), from near Boardman, Oregon through Morrow, Umatilla, Union, Baker and Malheur counties and into southwest Idaho. We are currently in the permitting phase of the Project that is occurring on two parallel paths. Idaho Power is pursuing a site certificate from the Oregon Energy Facility Siting Council (EFSC) as administered by the Oregon Department of Energy (Department). A federal Environmental Impact Statement (EIS) is also under development. The US Department of Interior, Bureau of Land Management (BLM) is the lead federal agency for the EIS process.

The requirements of the EFSC certificate are found in Oregon Administrative Rules OAR 345, division 021. As part of the required soils analysis (OAR 345-021-0010(i), Exhibit I) the EFSC relies, in part, on meeting soil protection standards by a determination that the Project can be expected to receive a National Pollutant Discharge Elimination System (NPDES) 1200-C permit for stormwater discharge. OAR 345-021-0000(7) allows the applicant to submit the application for the site certificate prior to applying for the federally delegated permit, but requires a copy of the federally delegated permit be submitted to the department to support their completeness finding. An initial corridor alignment has been studied and forms the basis for the preliminary Application for Site Certificate, 1200-C permit, and other ancillary permits, however, the final alignment may be modified as the EIS and EFSC processes proceed. The final 1200-C permit cannot be completed until the two decision bodies concur on the final alignment.

The purpose of this letter is to transmit the preliminary application for a 1200-C stormwater permit for the construction of the Project. IPC is submitting this preliminary application including a preliminary Erosion and Sediment Control Plan (ESCP) to facilitate ODOE and ODEQ review of the preliminary Application for Site certification which is scheduled for submittal to ODOE later this year. In absence of a complete ESCP, based on the final alignment, IPC has included an example of the plan format, content, and details that would comprise the plan when submitted.

The basis for this approach was established at a January 12, 2012 project meeting attended by Ms. Krista Ratliff, of DEQ's Bend, Oregon office. In that meeting Pike Energy, LLC, IPC's engineer, had completed preliminary erosion and sediment control

1221 W. Idaho St. (83702)
P.O. Box 70
Boise, ID 83707

plan (ESCP) drawings that comply with many of the requirements of the 1200-C permit. The result of that meeting was that IPC would present a preliminary 1200-C permit application, including the preliminary ESCP as a means of furthering the EFSC process. During the meeting, it was stated that the EFSC process can proceed without a final 1200-C permit if DEQ prepares a letter to EFSC that both acknowledges the initiation of the permit application process and states the estimated date when DEQ will complete its review and issue a permit decision. IPC understands that the project cannot proceed until the final 1200-C permit is obtained.

Enclosed are two copies of the preliminary 1200-C permit, including the preliminary ESCP, and the permit fee. We would appreciate your review and comments, with the understanding that later tasks may include DEQ production of the letter to EFSC, after this preliminary permit has been reviewed approved by your office.

We appreciate your consideration in this matter.

Sincerely,

Todd Adams
Project Manager

Cc: Z Funkhouser, IPC
M Bracke, IPC
D Dockter, IPC

DEQ USE ONLY

File #:

Application #:

LLID/RM:

River Mile:

Legal Name Confirmed: ☐

Notes:

APPLICATION FOR NEW NPDES GENERAL PERMIT #1200-C

For stormwater discharges to surface waters from construction activities disturbing one acre or more that do not meet automatic coverage requirements.*

Oregon Department of Environmental Quality

DEQ USE ONLY

Date Received:

Amount: $

Check Name:

Check #:

Deposit #:

Receipt #:

Notes:

* A project *may* be eligible for "automatic coverage" under NPDES general permit 1200-CN if stormwater *does not* discharge to a water body with a TMDL or 303(d) listing for sediment or turbidity *and* it meets one of the following criteria (see 1200-CN at http://www.deq.state.or.us/wq/wqpermit/docs/general/npdes1200cn/1200CNPermit.pdf):

1) Disturbs less than one acre and is located in Gresham, Troutdale, or Wood Village.
2) Disturbs less than five acres and is located in Albany, Corvallis, Eugene, Milwaukie, Multnomah Co. (unincorporated areas), Springfield, West Linn, or Wilsonville.
3) Disturbs less than five acres and is within the jurisdictions of Clackamas Co. Water Environment Services [Gladstone, areas within Clackamas Co. Service Dist. #1 (excluding Happy Valley), and areas within the Surface Water Management Agency of Clackamas Co. (including Rivergrove)], Clean Water Services (Banks, Beaverton, Cornelius, Durham, Forest Grove, Hillsboro, King City, North Plains, Sherwood, Tigard, Tualatin, and Washington Co. within Urban Growth Boundary), or Rogue Valley Sewer Services (Central Point, Phoenix, Talent, and portions of Jackson Co. in NPDES MS4 permit area).

Please answer all questions.

A. PROJECT INFORMATION

1. Idaho Power Company
Applicant (entity legally responsible for permit)

Zach Funkhouser
Contact Name (if different from applicant)

1221 West Idaho Street
Address

Boise | ID | 83702
City | State | Zip

(208) 388-5375 | zfunkhouser@idaho power.com
Telephone | E-Mail Address

2. Zach Funkhouser
Invoice Contact Name (if different from applicant)

(same as contact address)
Address

City | State | Zip

Telephone | E-Mail Address

3. Pike Energy Solutions, LLC
Architect/Engineering Firm (Erosion & Sediment Control Plan)

Aaron Storo
Project Manager

(503) 937-2000 | astoro@pike.com
Telephone | E-Mail Address

4. To Be Determined
Applicant's Designated Erosion and Sediment Control Inspector

Company Name

Telephone | E-Mail Address

5.
Name of Project

Boardman to Hemingway Transmission Line
Address or Cross Street

City | State | Zip

County

6. Nature of Construction Activity

- ☐ Single Family (SIC Code 1521)
- ☐ Multi-Family Residential (SIC Code 1522)
- ☐ Commercial (SIC Code 1542)
- ☐ Industrial (SIC Code 1541)
- ☐ Highway (SIC Code 1611)
- ■ Utilities (SIC Code 1623): Transmission Line
- ☐ Other (include SIC Code):

A. PROJECT INFORMATION (continued)

7. Approximate location of center of site:

Latitude: 45.012

Longitude: -117.838

For assistance: DEQ Location Tool at http://deqgisweb.deq.state.or.us/llid/llid.html

8. Project Size:

Total Site Acreage (acres): To Be Determined

Total Disturbed Area (acres): 5,228.9

9. Stormwater runoff during construction will flow to:

- ☐ Infiltration device(s)
- ☐ Creek/Stream (provide name):
- ☐ Ditch (provide name of receiving stream for ditch):
- ☐ Municipal storm sewer or drainage system (provide name of receiving stream for system):
- ■ Other: See Attached Table A-9

10. Stormwater runoff during construction discharges directly to or through a storm sewer or drainage system that discharges to a water body with a Total Maximum Daily Load (TMDL) or 303(d) listing for turbidity or sedimentation? ☐ YES ■ NO

For assistance: DEQ Lookup Tool at http://deq12.deq.state.or.us/tmdl/default.aspx or DEQ Map/Table at http://deq12.deq.state.or.us/tmdl/default.aspx

B. LAND USE COMPATIBILITY STATEMENT

Submit a DEQ Land Use Compatibility Statement (LUCS) form that has been completed by the local land use authority with this application. Attach the *original* LUCS and, if applicable, written findings by the local authority. DEQ will not process the application unless the local land use authority indicates on the LUCS form that the project is compatible with the local acknowledged comprehensive plan and land use regulations. See Attached Insert B-1

A copy of this form may be found at http://www.deq.state.or.us/pubs/permithandbook/generallucs.pdf

C. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE

The legally authorized representative *must* sign the application.

I hereby certify that the information contained in this application is true and correct to the best of my knowledge and belief. In addition, I agree to pay all permit fees required by Oregon Administrative Rules 340-045. This includes a compliance determination fee invoiced annually by DEQ to maintain the permit.

Vern Porter	VP, Delivery, Engineering and Operations
Name of Legally Authorized Representative (Type or Print)	**Title**
Signature of Legally Authorized Representative	**Date**

APPLICATION AND FEE SUBMITTAL

To authorize permit registration, the following must be completed and submitted to the appropriate DEQ regional office or DEQ Agent (see list of offices in application instructions, pp. 3-4):

- ■ DEQ application form signed by the Legally Authorized Representative and meeting the signature requirements below.
- ☐ DEQ LUCS by local land use authority indicating the activity is compatible with local acknowledged comprehensive plan and land use regulations. Include the Findings if so stated on the LUCS.
- ☐ Stormwater Erosion and Sediment Control Plan Narrative, if applicable.
- ■ Stormwater Erosion and Sediment Control Plan Drawings; full-sized hard copy and electronic PDF files.
- ☐ The fee for a new application is $1,586 payable to Oregon DEQ and you must submit it with this application. Please note that DEQ will also invoice you for an annual fee of $804 if your project needs permit coverage for more than a year. These fees are subject to change; please visit http://www.deq.state.or.us/wq/rules/div045/tables.pdf for current fees. If you are sending your application to a DEQ Agent, check with the DEQ Agent for appropriate fees and make check payable to the DEQ Agent.

NPDES General Permit 1200-C for Construction Activities
Application Instructions

A. PROJECT INFORMATION

1. Enter the legal name of the applicant. Permit coverage will be issued to this entity. This is the person, business, public organization, or other entity responsible for ensuring that erosion and sediment controls are in place and in working order through the life of the project.
   - The name must be a legal, active name registered with the Oregon Department of Commerce, Corporation Division in Salem at 503-378-4752 or http://egov.sos.state.or.us/br/pkg_web_name_srch_inq.login, unless otherwise exempted by their rules. If the name of the applicant is not registered with the Corporation Division and the applicant is a business entity, attach legal documents that verify the entity's existence with the application. The applicant may not use an assumed business name.
   - Permit coverage may be transferred from one party to another. For example, a developer may apply for a permit and then transfer the permit to a contractor. Transfer forms are available from DEQ or at http://www.deq.state.or.us/wq/stormwater/constappl.htm.
2. Provide invoice contact information for billing of DEQ annual permit fee if different from the applicant in #1 above.
3. Provide contact information for the Architect or Consulting Engineer who designed the Erosion and Sediment Control Plan (ESCP).
4. Provide information on the Erosion and Sediment Control Inspector. This is not a DEQ or DEQ Agent inspector; this is an inspector employed by the applicant. If the inspector has not been selected yet, please provide the name of consultant who prepared the ESCP and their ESC certification. When the inspector is selected, submit to DEQ or to the DEQ Agent, the name, contact information, training and experience (see condition A.12.b.iii of the 1200-C).
5. Provide the common name of the project (for example, the name of the subdivision), the location of the site with respect to crossroads in the area, and, if available, a street address.
6. Check the box that best describes the nature of the construction activity. If "other" is selected, describe the use and include a Standard Industrial Classification Code (visit http://www.osha.gov/pls/imis/sicsearch.html for codes).
7. Enter latitude and longitude for the approximate center of the site (DEQ Location Tool at http://deqgisweb.deq.state.or.us/llid/llid.html or at http://deqapp1/website/lit/data.asp).
8. Provide information on the project size as indicated (based on the total project and not just a single phase).
9. Indicate where stormwater runoff during construction will flow. Use your best judgment to determine the name of the receiving water body.
10. Indicate whether stormwater runoff during construction will discharge directly to or through a storm sewer or drainage system that discharges to a Total Maximum Daily Load (TMDL) or 303(d) listed water body for turbidity or sedimentation. To make this determination, the following tools are available on DEQ's website:
    - Map and table: http://www.deq.state.or.us/WQ/TMDLs/basinmap.htm
    - Lookup tool: http://deq12.deq.state.or.us/tmdl/default.aspx

B. LAND USE COMPATIBILITY STATEMENT

Complete as indicated.

C. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE

DEFINITION OF LEGALLY AUTHORIZED REPRESENTATIVE:

Please also provide the information requested in brackets *[ ]*

- **Corporation** - president, secretary, treasurer, vice-president, or any person who performs principal business functions; or a manager of one or more facilities that is authorized in accordance to corporate procedure to sign such documents.
- **Partnership** - General partner *[list of general partners, their addresses, and telephone numbers].*
- **Sole Proprietorship** - Owner(s) *[each owner must sign the application].*
- **City, County, State, Federal, or other Public Facility** - Principal executive officer or ranking elected official.
- **Limited Liability Company** - Member *[articles of organization].*
- **Trusts –** Acting trustee *[list of trustees, their addresses, and telephone numbers].*

(please see 40 CFR §122.22 for more detail, if needed)

NPDES General Permit 1200-C for Construction Activities
Application Instructions

APPLICATION AND FEE SUBMITTAL

Submit this application, Narrative Parts I, II & III (if applicable), LUCS, Erosion and Sediment Control Plan(2 full-sized hard copies and 1 PDF copy), and the applicable fee to the appropriate DEQ regional office or DEQ Agent listed below. Contact the appropriate DEQ regional office or DEQ Agent for the best way to submit the electronic version of the ESCP.

- If you are in an area serviced by a DEQ Agent, check with the DEQ Agent for appropriate fees and make check payable to the DEQ Agent.
- If you are sending your application to DEQ, the fee for a new application is $1,586 payable to the Oregon DEQ. Please note that DEQ will also invoice you for an annual fee of $804 if your project needs permit coverage for more than a year. These fees are subject to change; visit http://www.deq.state.or.us/wq/rules/div045/tables.pdf for current fees.

DEQ Northwest Region 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 503-229-5438 or 1-800-452-4011	**DEQ Western Region** 165 East 7th Avenue, Suite 100 Eugene, OR 97401 541-687-7326 or 1-800-452-4011	**DEQ Eastern Region** 700 SE Emigrant Avenue, Suite 330 Pendleton, OR 97801 541-278-4605 or 1-800-452-4011
City of Eugene 99 W. 10th Avenue Eugene, OR 97401 541-722-5519	**City of Hermiston** 215 Gladys Avenue Hermiston, OR 97838 541-667-5025	**City of Troutdale** 342 SW 4th Street Troutdale, OR 97060 503-674-7270
Clean Water Services 2550 SW Hillsboro Highway Hillsboro, OR 97123 503-681-5101 *Includes Banks, Beaverton, Cornelius, Durham, Forest Grove, Gaston, Hillsboro, King City, North Plains, Sherwood, Tigard, Tualatin, and portions of Washington Co.*	**Rogue Valley Sewer Services** 138 West Vilas Road, PO Box 3130 Central Point, OR 97502 541-353-4594 *Includes Central Point, Phoenix, Talent, White City and portions of Jackson Co.*	**Clack Co. Water Environmental Services** 150 Beavercreek Road, Suite 430 Oregon City, OR 97045 503-742-4567 *Unincorporated Clackamas County and areas within the Cities of Rivergrove and Gladstone*

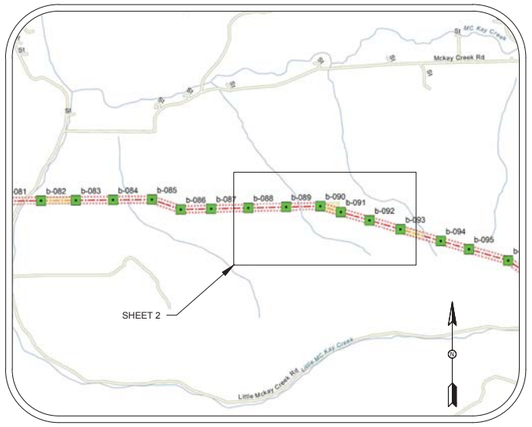
Insert B-1

Idaho Power Company (IPC) is applying for a Site Certification from the Energy Facility Siting Council (EFSC). IPC has elected to follow “Path B” under ORS 504 (1)(b), which means that the site certificate binds state and local jurisdictions to the EFSC’s action and requires them to issue permits, licenses, and certificates for construction and operations of the facility. The substantive criteria identified by each county from their county comprehensive plans and land use ordinances are taken into account as part of the site certification process.

Table A-9. Stormwater Runoff to Streams

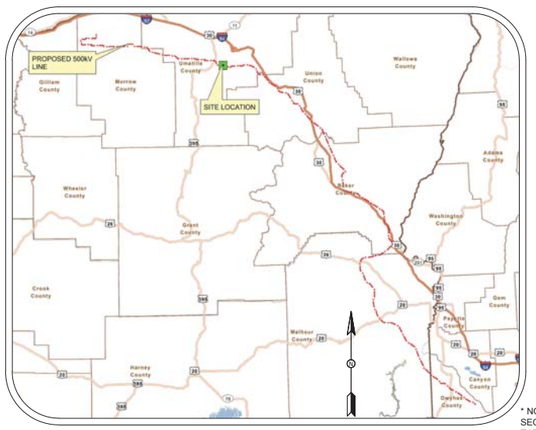
Route/County	Corridor Length (miles)	Subbasin Name	Subbasin HUC	Total Disturbed Area (acres)	Intermittent		Perennial		303d	
					Disturbed Area (acres)	% Total Disturbed Area	Disturbed Area (acres)	% Total Disturbed Area	Disturbed Area (acres)	% Total Disturbed Area
Proposed Corridor										
Morrow	36.3	Middle Columbia-Lake Wallula	17070101	218.0	18.8	8.6	--	--	--	--
		Umatilla	17070103	312.2	103.7	33.2	8.2	2.6	0.1	<0.1
Umatilla	49.5	Umatilla	17070103	869.0	76.3	8.8	22.0	2.5	1.1	0.1
		Upper Grande Ronde	17060104	11.7	--	--	--	--	--	--
Union	39.8	Powder	17050203	193.9	18.6	9.6	4.0	2.1	0.3	0.1
		Umatilla	17070103	4.5	--	--	--	--	--	--
		Upper Grande Ronde	17060104	592.4	25.4	4.3	10.2	1.7	--	--
Baker	75.0	Brownlee Reservoir	17050201	39.6	10.3	25.9	9.2	23.3	--	--
		Burnt	17050202	648.1	68.7	10.6	66.1	10.2	45.7	7.1
		Powder	17050203	532.8	74.4	14.0	7.9	1.5	--	--
Malheur	73.8	Brownlee Reservoir	17050201	135.4	9.1	6.7	1.2	0.9	--	--
		Bully	17050118	148.8	16.4	11.0	2.9	2.0	1.3	0.9
		Lower Malheur	17050117	329.4	59.4	18.0	<0.1	<0.1	2.3	0.7
		Lower Owyhee	17050110	251.7	42.4	16.8	2.1	0.8	6.5	2.6
		Middle Snake-Succor	17050103	229.3	51.9	22.6	2.2	1.0	--	--
		Willow	17050119	227.5	20.1	8.8	10.5	4.6	10.5	4.6
Owyhee	23.8	Middle Snake-Succor	17050103	540.0	104.0	19.3	8.1	1.5	6.0	1.1
Total	**298.2**			**5,284.3**	**699.6**	**13.2**	**154.8**	**2.9**	**73.7**	**1.4**
Double Mountain Alternate										
Malheur	7.4	Bully	17050118	0.7	--	--	<0.1	4.9	--	--
		Lower Malheur	17050117	124.9	44.8	35.9	--	--	--	--
		Lower Owyhee	17050110	14.7	6.0	41.1	--	--	--	--
Total	**7.4**			**140.3**	**50.9**	**36.3**	**<0.1**	**4.9**	**--**	**--**

BOARDMAN TO HEMINGWAY 500 kV PROJECT EROSION AND SEDIMENT CONTROL PLANS



SITE MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE

PROJECT LOCATION:

THE PROJECT CORRIDOR BEGINS NEAR BOARDMAN IN MORROW COUNTY, OREGON AND ENDS AT HEMINGWAY SUBSTATION, LOCATED IN OWYHEE COUNTY, IDAHO.

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

OWNER

IDAHO POWER COMPANY
1221 WEST IDAHO STREET
BOISE, ID 83702

OWNER'S ENGINEER

PIKE ENERGY SOLUTIONS, LLC
700 NE MULTNOMAH ST. SUITE 500
PORTLAND, OR 97232
503-937-2000

CONTRACTOR

TO BE DETERMINED

NARRATIVE

IDAHO POWER IS PROPOSING TO CONSTRUCT AND OPERATE A NEW, APPROXIMATELY 304-MILE-LONG, ELECTRIC TRANSMISSION LINE BETWEEN NORTHEASTERN OREGON AND SOUTHWESTERN IDAHO KNOWN AS THE BOARDMAN TO HEMINGWAY (B2H) PROJECT. THIS OVERHEAD 500-KV LINE WILL CONNECT THE GRASSLAND SUBSTATION LOCATED NEAR BOARDMAN, OREGON TO THE HEMINGWAY SUBSTATION NEAR MELBA, IDAHO. THE LINE WILL CROSS FEDERAL, STATE, AND PRIVATE LANDS IN SIX COUNTIES IN OREGON AND IDAHO.

THIS ESCP (FIVE SHEETS INCLUDING THIS TITLE SHEET) WAS DEVELOPED AS A REPRESENTATIVE SAMPLE OF A 1-MILE SECTION OF THE B2H PROJECT ROUTE. THIS SECTION OF THE PROJECT PORTRAYS A REPRESENTATIVE SAMPLE OF EXISTING CONDITIONS (E.G., TOPOGRAPHIC, SURFACE DRAINAGE, AND SOIL/GEOLOGIC) AND FEATURES OF THE PROPOSED TRANSMISSION LINE PROJECT.

THE PROPOSED TRANSMISSION LINE CORRIDOR RIGHT OF WAY WIDTH IS 250 FEET. THE TRAVELED WIDTH OF ACCESS ROADS WILL RANGE FROM 16 TO 20 FEET (WITH A TOTAL DISTURBANCE WIDTH OF 25 FEET IN MOST AREAS). SHEET 2 SHOWS PROPOSED EXISTING AND NEW ACCESS ROADS WITHIN A 25-FOOT WIDE CORRIDOR OF DISTURBANCE, THE PROPOSED TRANSMISSION LINE WITHIN A 250-FOOT WIDE RIGHT OF WAY, PROPOSED STRUCTURES (I.E., TOWERS) WITHIN 250-FOOT SQUARE CONSTRUCTION WORK AREA, A PROPOSED LINE PULLING AND TENSIONING SITE, AND THE LOCATIONS OF PROPOSED SILT FENCES, ROCK FORD STREAM CROSSINGS, WATERBARS AND OTHER EROSION AND SEDIMENT CONTROL MEASURES. PRESENTED ON SEPARATE SHEETS ARE DETAILS OF EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS EXAMPLES OF STRUCTURE WORK AREAS AND ACCESS ROADS. WORK AREAS ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION AND USE, OR AS AGREED TO BY LANDOWNERS. ROW AREAS WILL BE MAINTAINED AS PER IPC VEGETATION MANAGEMENT PLAN AND ROW MAINTENANCE STANDARDS.

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

CONSTRUCTION TO BUILD A 500 kV TRANSMISSION LINE
DISTURBED AREA
STRUCTURE LOCATIONS =5.5 ACRES*
ACCESS ROADS =8.3 ACRES*
TOTAL DISTURBED AREA =13.8 ACRES*
PULLING AND TENSIONING SITES =4.9 ACRES*
WORK AREAS = 0.0 ACRES*
TOTAL RIGHT-OF-WAY AREA =38.4 ACRES*

SITE SOIL CLASSIFICATION:

STRUCTURE	DESCRIPTION	AVERAGE SLOPE
b-088	GURDANE SILTY CLAY LOAM	7%-25%
b-089	GURDANE SILTY CLAY LOAM	7%-25%
b-090	GURDANE-ROCKLY COMPLEX	2%-20%
b-091	GURDANE-ROCKLY COMPLEX	2%-20%
b-092	GURDANE SILTY CLAY LOAM	25%-45%
b-093	GURDANE SILTY CLAY LOAM	25%-45%

ON-SITE SOILS HAVE A MODERATE TO HIGH EROSION POTENTIAL.*
ALL FILL MATERIAL SHALL BE GENERATED ON-SITE OR IMPORTED FROM PERMITTED LOCAL QUARRIES.

RECEIVING WATER BODIES:*

UNNAMED TRIBUTARY TO MCKAY CREEK*

* NOTE: INFORMATION IS SPECIFIED ONLY TO THIS EXAMPLE MILE-LONG SEGMENT OF THE BOARDMAN TO HEMINGWAY 500 kV PROJECT. A FULL TABULATION CONDITIONS FOR ALL APPLICABLE SEGMENTS WILL BE PRESENTED AS A SUPPLEMENT TO THIS ESCP.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

SHEET INDEX
EROSION AND SEDIMENT CONTROL PLANS

1 OF 5 EROSION AND SEDIMENT CONTROL TITLE SHEET
2 OF 5 EROSION AND SEDIMENT CONTROL PLAN
3 OF 5 EROSION AND SEDIMENT CONTROL DETAILS A
4 OF 5 EROSION AND SEDIMENT CONTROL DETAILS B
5 OF 5 EROSION AND SEDIMENT CONTROL DETAILS C

GENERAL NOTES:

1. ONLY CLEAR AND GRUB FOR INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO MASS CLEARING.
2. NO CLEARING SHALL BE ALLOWED WITHOUT THE INSTALLATION OF THE APPROVED EROSION CONTROL MEASURES.
3. THE MINIMUM MEASURES INCLUDE TEMPORARY CONSTRUCTION ENTRANCES, WATERBARS ON NEW (AND IMPROVED EXISTING) ROADS, AND PERIMETER EROSION CONTROL MEASURES (SEEDING OF NEW/ DISTURBED CUT AND FILL SLOPES). ADDITIONAL MEASURES (I.E. STRUCTURAL BMPs) WILL BE APPLIED AS NEEDED AND DETAILED IN THIS ESCP.
4. THE EROSION AND SEDIMENT CONTROL INSPECTOR MUST PERFORM DAILY INSPECTIONS OF THE BMPs AND DISCHARGE OUTFALLS WHEN RAINFALL AND RUNOFF OCCUR.
5. ALL ESCP CONTROLS AND PRACTICES MUST BE INSPECTED VISUALLY ONCE TO ENSURE THAT BMPs ARE IN WORKING ORDER PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY AND MUST BE INSPECTED VISUALLY ONCE EVERY TWO (2) WEEKS DURING INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.
6. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. SEED MIX MUST BE APPROPRIATE TO SEASON AND SITE CONDITIONS, PREFERABLY NATIVE, AND FREE OF NOXIOUS WEEDS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALISTS FOR SEED MIXES.
7. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPs.
8. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED.
9. TOPSOIL AND ALL EXCESS SOIL GENERATED BY GRADING ACTIVITIES SHALL BE STOCKPILED SEPARATELY AND CONTAINED WITH AN APPROPRIATE BMP TO PREVENT OFFSITE SEDIMENTATION.
10. CARE SHOULD BE TAKEN TO NOT MIX THE UNDERLYING SOIL AND THE TOPSOIL.
11. ALL DISTURBED AREAS TO RECEIVE LAYER OF TOPSOIL SUFFICIENT IN DEPTH TO PROVIDE ADEQUATE GERMINATION OF PERMANENT SEED.
12. VEGETATIVE BUFFER STRIPS SHALL BE UTILIZED TO REMOVE SEDIMENT AND OTHER POLLUTANTS FROM RUNOFF, WHERE EFFECTIVE.
13. MINIMUM WIDTH OF THE VEGETATIVE BUFFER STRIP SHALL BE [illegible]

[illegible]

[illegible]

16. STRUCTURAL BMPs WILL BE INSTALLED IN ANY LOCATION WITH GROUND DISTURBANCE WITHIN 50 FEET OF A WATER BODY.
17. STRUCTURAL BMPs WILL BE INSTALLED AT GROUND DISTURBANCE LOCATIONS WITHIN 75 FEET OF A WATER BODY IF THE AREA BELOW THE DISTURBANCE IS SLOPED STEEPER THAN 5% OR CONTAINS LESS THAN 50% VEGETATIVE COVER.
18. THE CONSTRUCTION CONTRACTOR SHALL TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ON TO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.
19. CONCRETE TRUCK WASHOUTS SHALL BE LOCATED PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.
20. CONCRETE WASHOUTS SHALL BE LOCATED AT EACH STRUCTURE PAD, OR A CENTRAL LOCATION SERVING MULTIPLE STRUCTURE PADS.
21. DISTURBANCES ON SLOPES SHALL BE MANAGED BY THE USE OF VEGETATIVE BUFFER STRIPS. STRUCTURAL BMPs (FIBER ROLLS, COMPOST ROLLS OR EROSION CONTROL MATTING, ETC.) WILL BE APPLIED FOR ADDITIONAL PROTECTION.
22. PULLING AND TENSIONING SITES FOR THE 500-KV TRANSMISSION LINE CONSTRUCTION WILL BE REQUIRED APPROXIMATELY EVERY 1 TO 2 MILES ALONG THE RIGHT-OF-WAY AND WILL REQUIRE APPROXIMATELY 5 ACRES AT EACH END OF THE WIRE SECTION TO ACCOMMODATE REQUIRED EQUIPMENT.
23. A TABLE HAS BEEN DEVELOPED NOTING THE TYPICAL CONSTRUCTION DETAIL FOR THE MAJORITY OF THE STRUCTURE PADS.
24. ACCESS ROADS SHALL MATCH ONE OF THE TYPICAL DETAILS UNLESS SPECIFICALLY NOTED.
25. SEE 2005 DEQ ESC MANUAL FOR BMP RATIONALE STATEMENTS.

REQUIRED EROSION AND SEDIMENT CONTROL PLAN DRAWING STANDARD NOTES:

1. HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL (INCLUDING THE INSPECTOR) TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
2. ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SCHEDULE A 8.A)
3. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION. (SCHEDULE B.2.A)
4. THE ESCP MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE MEASURES AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS. (SCHEDULE A.8.C.II.(1)(C))
5. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. (SCHEDULE A.12.C.III)
6. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SCHEDULE A 8.C.II.(1)(D))
7. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.C.I.(1) & (2))
8. PRESERVE EXISTING VEGETATION AND RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. (SCHEDULE A.7.B.III.(1))
9. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS. (SCHEDULE A.7.D.I AND A.8.C)
10. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SCHEDULEA.8.C.I.(6))
11. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS. (SCHEDULE A.8.C.II.(2))
12. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SCHEDULE A.8.C.I.(7))
13. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPs SUCH AS: GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPs MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SCHEDULE A 7.D.II.(1) AND A.8.C.I(4))
14. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.D.II.(3))
15. USE BMPs TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.E.I.(2))
16. USE WATER OR A SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A7.B.III)
17. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SCHEDULE A.9.B.III)
18. IF A STORMWATER TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SCHEDULE A.9.D)
19. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SCHEDULE A 7.B)
20. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER. (SCHEDULE A.7.A.I)
21. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I)
22. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SCHEDULE A.9.C.II)
23. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.9.C.III & IV)
24. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.9.B.I)
25. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II)
26. THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE A.7.F.I)
27. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.7.F.II)'
28. THE DESIGNATED EROSION AND SEDIMENT CONTROL INSPECTOR MUST PERFORM DAILY INSPECTIONS OF THE BMPs AND DISCHARGE OUTFALLS WHEN RAINFALL AND RUNOFF OCCUR. RECORD THE INSPECTIONS AND OBSERVATIONS IN A LOG THAT IS ON SITE. (SCHEDULEB.1.B(1))
29. ALL ESCP CONTROLS AND PRACTICES MUST BE INSPECTED VISUALLY ONCE TO ENSURE THAT BMPs ARE IN WORKING ORDER PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY AND MUST BE INSPECTED VISUALLY ONCE EVERY TWO (2) WEEKS DURING INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS. (SCHEDULE B.1.B.(2) & (3))
30. IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION DURING PERIODS IN WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER. (SCHEDULE B.1.B.(4))
31. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE A 7.B.III)
32. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPs. (SCHEDULE A.8.C.III)

BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMPs.

BMPs	CLEARING & GRADING	UTILITY INSTALLATION	FINAL STABILIZATION	"WET WEATHER (OCT. 1 - MAY 31st)"	POTENTIAL DISCHARGE TO TMDL and 303(d)
EROSION PREVENTION					
PRESERVE NATURAL VEGETATION	** X	X	X	X	X
GROUND COVER		X	X	X	X
HYDRAULIC APPLICATIONS			X	X	X
PLASTIC SHEETING		X		X	X
MATTING			X	X	X
DUST CONTROL	** X	X	X		X
TEMPORARY/ PERMANENT SEEDING		X	X	X	X
BUFFER ZONE	** X	X	X	X	X
SEDIMENT CONTROL					
SILT FENCE (PERIMETER)	** X		X	X	X
SILT FENCE (INTERIOR)			X	X	X
STRAW WATTLES	X			X	X
FILTER BERM	X	X		X	X
INLET PROTECTION	X	X		X	X
DEWATERING	X	X		X	X
SEDIMENT TRAP	X	X		X	X
RUN OFF CONTROL					
CONSTRUCTION ENTRANCE	** X	X	X	X	X
PIPE SLOPE DRAIN	X	X	X	X	X
OUTLET PROTECTION	X	X	X	X	X
SURFACE ROUGHENING	X	X	X	X	X
CHECK DAMS	X	X	X	X	X
WATERBARS	** X	X	X	X	X
POLLUTION PREVENTION					
PROPER SIGNAGE	** X	X	X	X	X
HAZ WASTE MGMT	** X	X	X	X	X
SPILL KIT ON-SITE	** X	X	X	X	X
CONCRETE WASHOUT AREA		X	X	X	X
** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.					
SCHEDULE:	YEARS 1-2	YEARS 1-3	YEARS 2-3	YEARS 1-3	YEARS 1-3

PRELIMINARY

INITIAL

HAND WRITTEN INITIALS OF EROSION CONTROL PLAN DESIGNER

PERMITTEE'S SITE INSPECTOR: ______________________

COMPANY/AGENCY: ______________________
PHONE: ______________________
FAX: ______________________
E-MAIL: ______________________
DESCRIPTION OF EXPERIENCE: ______________________

(MUST HAVE ADEQUATE CERTIFICATION OR TRAINING IN EROSION CONTROL OR AT LEAST 200HRS ON JOB EXPERIENCE SPECIFIC TO EROSION CONTROL)

INSPECTION FREQUENCY:

	SITE CONDITION	MINIMUM FREQUENCY
1	ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING. EVERY 2 WEEKS IN DRY CONDITIONS.
2	PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3	INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY TWO (2) WEEKS AND AFTER STORMS TOTALING 0.25 INCH OR MORE.
4	PERIODS DURING WHICH THE SITE IS ACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

- * HOLD A PRE-CON MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE EC INSPECTOR.
- * ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200 C PERMIT REQUIREMENTS.
- * INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ 1200 C PERMIT REQUIREMENTS.
- * CHANGES TO THE APPROVED ESC PLAN MUST BE SUBMITTED TO DEQ IN THE FORM OF AN ACTION PLAN.

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REV.	DESCRIPTION	DATE	C.E.G.	DSGN	DFTR
0	B2H EROSION AND SEDIMENT CONTROL PLANS – DRAFT	10–10–11	DKR	KTM	CAH
1	REVISE	11–22–11	DKR	KTM	KTM
2	REVISED FOR DRAFT 1200–C APPLICATION	3–30–12			KHK

REV.	DESCRIPTION	DATE	C.E.G.	DSGN	DFTR

REFERENCES		DATE
DESIGNER: KTM		10–10–11
DRAFTER: CAH		10–10–11
C.E.G. DKR		10–10–11
SCALE:	NTS	HORZ.
		VERT.

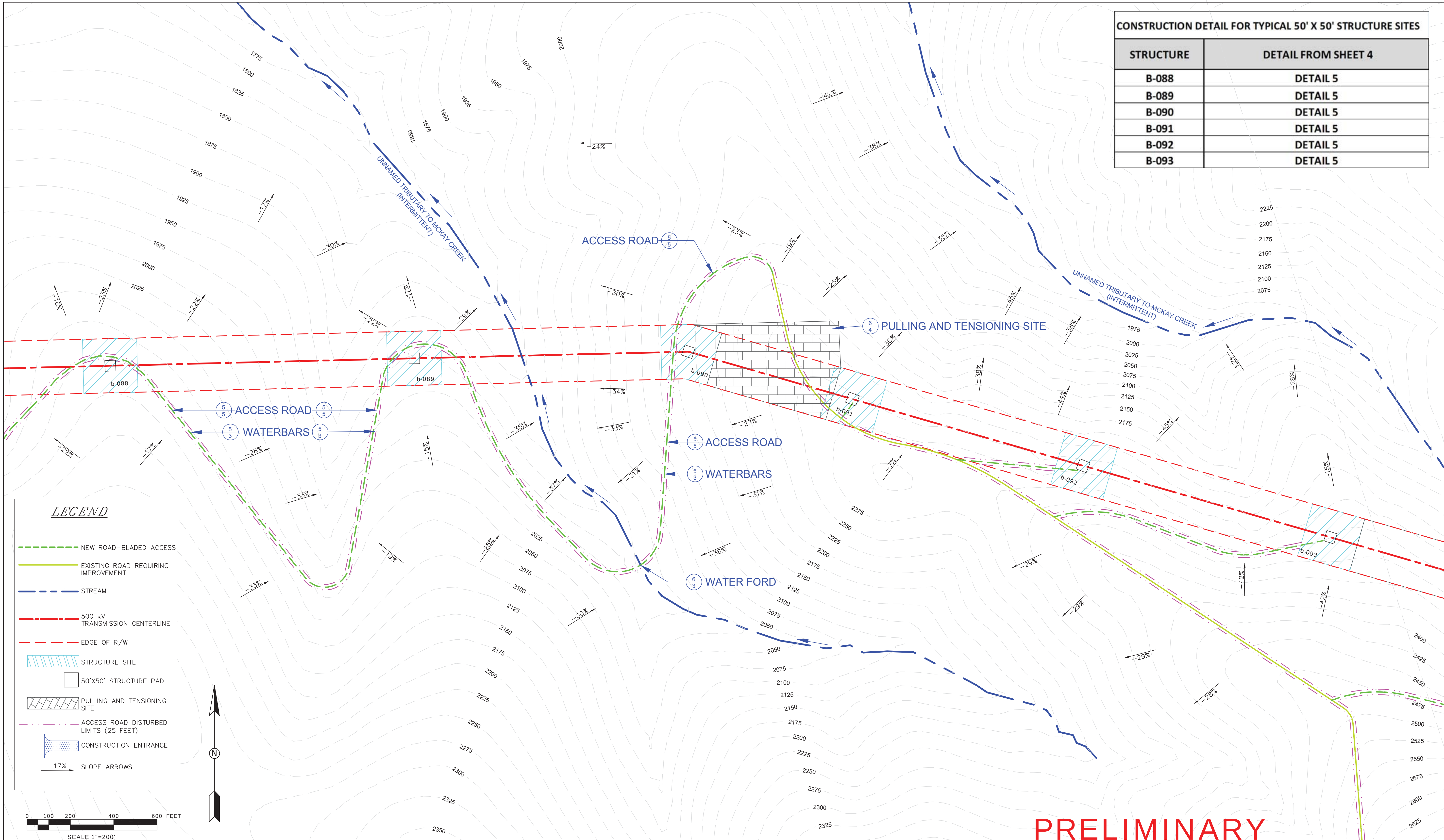
PROJECT INFORMATION

BOARDMAN TO HEMINGWAY
500kV LINE #XXX
EROSION AND SEDIMENT
CONTROL PLANS

TRANSMISSION DEPARTMENT

DRAWING #: TITLE SHEET
VAULT #: 23D–00000–00
SHEET #: 1 OF 5

Mar 30, 2012 - 12:48pm C:\Users\knowles_keith\Desktop\BOARDMAN\SEC B2H 1 Mile 111711.dwg



CONSTRUCTION DETAIL FOR TYPICAL 50' X 50' STRUCTURE SITES	
STRUCTURE	**DETAIL FROM SHEET 4**
B-088	DETAIL 5
B-089	DETAIL 5
B-090	DETAIL 5
B-091	DETAIL 5
B-092	DETAIL 5
B-093	DETAIL 5

PRELIMINARY

IDAHO POWER.

REV.	DESCRIPTION	DATE	C.E.G.	DSGN	DFTR
0	B2H EROSION AND SEDIMENT CONTROL PLANS – DRAFT	10-10-11	DKR	KTM	CAH
1	REVISE	11-22-11	DKR	KTM	KTM

REV.	DESCRIPTION	DATE	C.E.G.	DSGN	DFTR

REFERENCES		DATE
DESIGNER:	KTM	10-10-11
DRAFTER:	CAH	10-10-11
C.E.G.	DKR	10-10-11
SCALE:	1" = 200' HORZ.	
	VERT.	

PROJECT INFORMATION

BOARDMAN TO HEMINGWAY 500kV LINE #XXX EROSION AND SEDIMENT CONTROL PLANS

TRANSMISSION DEPARTMENT

DRAWING #: PLAN

VAULT #: 23D-00000-00

SHEET #: 2 OF 5

SEEDING FOR PERMANENT STABILIZATION SHALL BE PERFORMED IN ALL AREAS WHERE LAND DISTURBANCE HAS OCCURRED .

REESTABLISH VEGETATIVE COVER

1. IF TOPSOIL IS REMOVED, CARE WILL BE TAKEN TO ENSURE IT IS NOT MIXED WITH THE UNDERLYING SUBSOIL. TOPSOIL SHALL BE STORED IN A SEPARATE STOCKPILE. IT WILL BE RETURNED TO THE AREA IT WAS TAKEN FROM AND WILL NOT BE SPREAD IN ADJACENT AREAS.
2. SEED MIX WILL BE DETERMINED BY THE BUREAU OF LAND MANAGEMENT, US FOREST SERVICE, OR PRIVATE LAND OWNER.
3. SEEDING WILL OCCUR IN OCTOBER, NOVEMBER, FEBRUARY OR MARCH AND WILL BE EVALUATED FOR SUCCESS OF ESTABLISHMENT AFTER TWO GROWING SEASONS.

BASIC DESIGN AND CONSTRUCTION:

- SPREAD 4-6" OF TOPSOIL OR COMPOST OVER THE SITE BEFORE SEEDING OR PLANTING.
- FERTILIZE ACCORDING TO SOIL TEST RECOMMENDATIONS.
- MULCH WITH STRAW OR OTHER MATTING.
- WATER AS NEEDED TO KEEP SOIL MOIST.
- USE SEED MIX RECOMMENDATIONS FROM LOCAL SUPPLIERS. SEED MIXES SHOULD BE BASED UPON THE TIME OF YEAR SEEDING IS TAKING PLACE. USE LOW MAINTENANCE, NATIVE GRASSES. IF PLANTING IS DONE IN JULY OR AUGUST, IRRIGATION WILL BE NECESSARY.
- SHRUBS SHOULD BE PLANTED 2'-5' APART; TREES 6'-10' FOR WOODED AREAS.

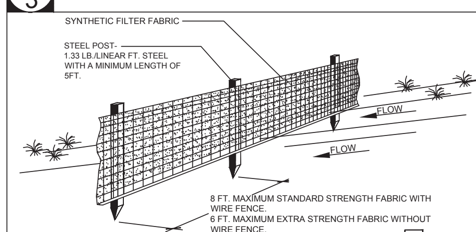
DESIGN CONSIDERATIONS:

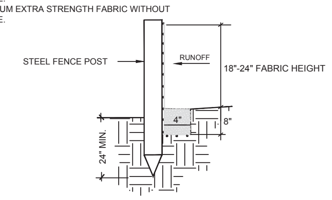
MULCH SHOULD BE APPLIED IN AREAS WHICH CANNOT BE SEEDED DUE TO THE SEASON OR OTHER ISSUES. IT CAN ALSO BE APPLIED TO NEWLY SEEDED AREAS TO PROVIDE PROTECTION AND COVER UNTIL SEED IS ESTABLISHED OR TO EXPOSED SOILS THAT NEED IMMEDIATE COVER AND PROTECTION. SUITABLE ORGANIC MATERIALS (E.G. STRAW, WOOD CHIPS, SHREDDED BARK, COMPOST) WILL BE CHOSEN BASED ON LOCAL AVAILIBILITY AND EFFECTIVENESS. USE COMPOSTABLE BLANKETS ON STEEP SLOPES. THE MATERIAL SHOULD BE DRY AND FREE OF WEEDS AND SEEDS. IN DRY WEATHER THE MULCH MAY NEED TO BE ANCHORED WITH NETTING OR A FIBER AND TACKIFIER TO PREVENT IT FROM BLOWING AWAY.

MAINTENANCE:

- FERTILIZE AND WATER AS RECOMMENDED BY SUPPLIER.
- RE-SEED AREAS WHERE ADEQUATE COVER HAS NOT BEEN ESTABLISHED.
- [illegible]
- CONTRACTOR IS TO HAVE MATERIALS STORED ON HAND FOR RAPID RESPONSE TO EROSION CONTROL EMERGENCIES WITHOUT SUPPLY PROCUREMENT DELAYS.

1/3 SEEDING AND STABILIZATION





SILT FENCE CONSTRUCTION SPECIFICATIONS:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. SILT FENCE DRAINAGE AREA OF 1/4 ACRE OR LESS PER 100 LF.
3. SILT FENCE WITH ROCK OUTLET SHALL BE APPLICABLE FOR DRAINAGE AREAS OF 1/2 ACRE OR LESS.
4. WIRE MESH REINFORCEMENT SHALL CONSIST OF 14 GAUGE WIRE X 6" SPACING.
5. SYNTHETIC FILTER FABRIC MIN. REQUIREMENTS:
   A. TENSILE STRENGTH - 90 LBS
   B. PERMITTIVITY - 0.05 SEC-1
   C. APPARENT OPENING SIZE - 30 US STD. SIEVE
   D. ULTRAVIOLET STABILITY - 70%
6. FILTER FABRIC SHALL BE FASTENED TO THE UP-SLOPE SIDE OF THE FENCE POSTS, SUPPORTED BY WIRE MESH. EXTEND WIRE MESH TO THE BOTTOM OF THE TRENCH. WIRE OR PLASTIC TIES SHOULD BE USED TO SECURE THE FABRIC AND WIRE MESH TO THE FENCE POSTS.
7. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

MAINTENANCE NOTES:

1. INSPECT SILT FENCES AS PER INSPECTION FREQUENCY TABLE. MAKE ANY REPAIRS REQUIRED IMMEDIATELY.
2. SHOULD THE FABRIC OF THE SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. [illegible] TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. ONCE THE DRAINAGE AREA HAS BECOME PERMANENTLY STABILIZED, ALL THE FENCE MATERIALS, AND ANY SEDIMENT DEPOSITS ARE TO BE REMOVED. THE DISTURBED AREA SHALL THEN BE GRADED SMOOTH AND PROPERLY SEEDED AND MULCHED.

2/3 SILT FENCE

DESCRIPTION :

[illegible]

DESIGN REQUIREMENTS:

- THE MINIMUM WIDTH SHALL BE 50 FEET WITH SLOPES OF 1-2%, WITH ADDITIONAL WIDTH AND/OR CONTROLS AS NEEDED TO REDUCE AND CONTAIN EROSION AND SEDIMENTATION ON STEEPER SLOPES.
- NEAR TURBIDITY TMDL AND 303(D) LISTED WATERBODIES, BUFFERS SHALL BE 50 FEET PLUS 25 FEET PER 5 DEGREES OF SLOPE.
- WHERE UNDISTURBED NATURAL BUFFER IS LESS THAN 50 FEET OR INFEASIBLE, SUPPLEMENT WITH ADDITIONAL EROSION AND SEDIMENT CONTROLS SUFFICIENT TO ACHIEVE SEDIMENT LOAD REDUCTION EQUIVALENT TO A 50-FOOT BUFFER.
- ALONG WATERBODIES THE WIDTH IS TO BE NO LESS THAN 75 FEET IN WIDTH.
- THE WATER FLOW THROUGH THE BUFFER IS TO REMAIN AS UNIFORM SHEET FLOW.
- THE AREA USED AS THE VEGETATIVE FILTER MUST BE DELINEATED PRIOR TO CLEARING AND GRUBBING.
- NO VEHICULAR PARKING OR DRIVING AND NO STORAGE OF ANY SUPPLIES IN THE VEGETATIVE BUFFER IS ALLOWED.

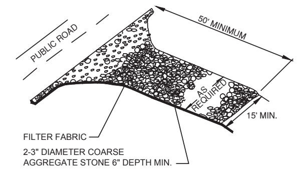
MAINTENANCE:

- FREQUENT INSPECTIONS ARE NECESSARY TO ENSURE UNIFORM SHEET FLOW. MINIMIZE ANY DEVELOPMENT OF CHANNELS.
- PERIODIC REGRADING AND SEDIMENT REMOVAL MAY BE NECESSARY.
- PLANT DENSITY MAY BE ENCOURAGED BY FERTILIZING AND PERIODIC WEEDING.
- RESEED AS NECESSARY.

GENERAL NOTES:

- STRUCTURAL BMPs WILL BE INSTALLED IN ANY LOCATION WITH GROUND DISTURBANCE WITHIN 50 FEET OF A WATER BODY.
- STRUCTURAL BMPs WILL BE INSTALLED AT GROUND DISTURBANCE LOCATIONS WITHIN 75 FEET OF A WATER BODY IF THE AREA BELOW THE DISTURBANCE IS SLOPED STEEPER THAN 15% OR CONTAINS LESS THAN 50% VEGETATIVE COVER.

3/3 VEGETATIVE BUFFER



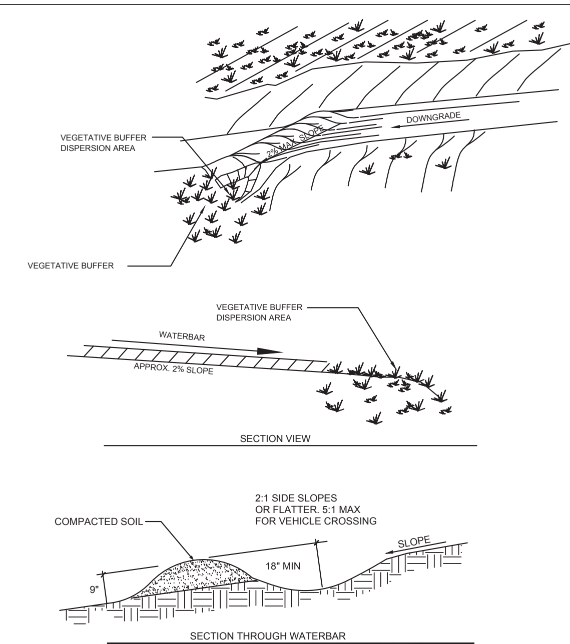
GENERAL NOTES:

1. AGGREGATE SIZE: 2-3" DIAMETER WASHED STONE
2. PAD THICKNESS: 6" MINIMUM
3. PAD WIDTH: 15' MINIMUM
4. PAD LENGTH: 50' MINIMUM
5. PAD LOCATION: LOCATE CONSTRUCTION ENTRANCES AND EXITS TO LIMIT SEDIMENT FROM LEAVING THE SITE AND TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID STEEP GRADES AND ENTRANCES AT CURVES IN PUBLIC ROADS.
6. A FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP RAP AND SOIL FOUNDATION.
7. THE FILTER FABRIC MAY BE MADE OF WOVEN OR NONWOVEN MONOFILAMENT YARNS, AND SHOULD MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   A. THICKNESS 20 - 60 MILS;
   B. GRAB STRENGTH 90 - 120 LB; AND,
   C. CONFORM TO ASTM D-1682 OR ASTM D-177.

MAINTENANCE NOTE:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PAVED ROADWAYS.

4/3 TEMPORARY CONSTRUCTION ENTRANCE

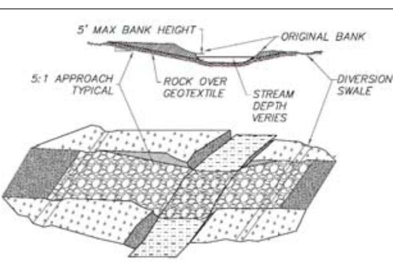


INSTALLATION FREQUENCY

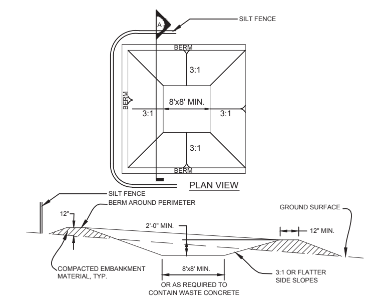
SLOPE (%)	SPACING (FT)
<5%	125
5 TO 10	100
10 TO 20	75
20 TO 35	50
>35	25

NOTE: IF AN ADEQUATE VEGETATIVE BUFFER IS UNAVAILABLE, AN ALTERNATIVE DISPERSION BMP SHALL BE IMPLEMENTED.

5/3 WATERBAR



6/3 WATER FORD



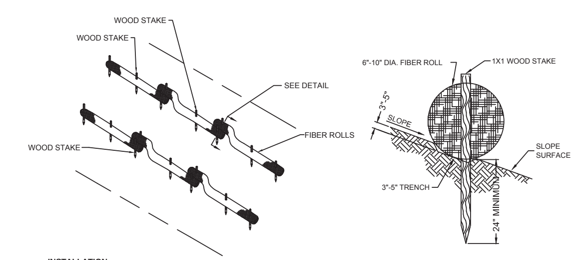
INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF CONCRETE WASHOUT AREA. SITE WASHOUTS AWAY FROM WATERBODIES.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

MAINTENANCE NOTES

1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. SENSITIVE AREAS MAY REQUIRE LINED WASHOUT STRUCTURES TO RECOVER, DISPOSE OF, OR RECYCLE EXCESS CURED CONCRETE. DO NOT BURY LINER. WHERE AGENCIES AND LANDOWNER APPROVES OF BURYING, MATERIAL MUST BE AT LEAST 100 FEET FROM SURFACE WATER AND GROUNDWATER, IN SMALL VOLUMES (1 PIT FOR EACH PAD), AND AT LEAST 3 FEET BELOW GRADE. WATER MUST INFILTRATE PRIOR TO CLOSING THE PIT, AND CREWS MUST COVER THE PIT DURING RAIN EVENTS TO PREVENT HIGH PH WASH WATER OVERFLOW.
3. INSPECT AT LEAST WEEKLY WHEN ACTIVELY USED AND COVER AS NEEDED TO AVOID OVERFLOW DURING STORMS.

7/3 CONCRETE WASHOUT



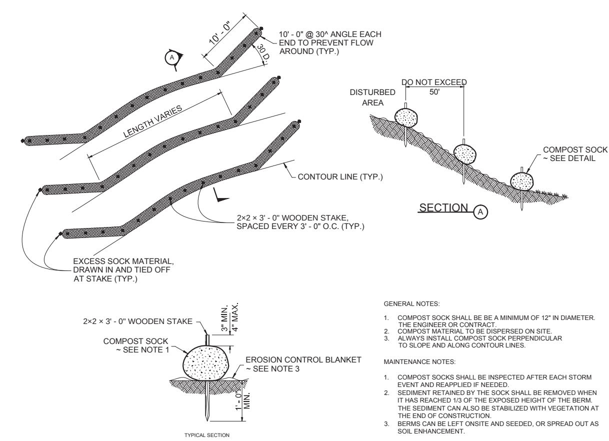
INSTALLATION

1. PREPARE THE SLOPE BEFORE THE INSTALLATION PROCEDURE IS STARTED.
2. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
3. DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED,
4. THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 1/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
5. IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR.
6. START BUILDING TRENCHES AND INSTALLING ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
7. CONSTRUCT TRENCHES AT CONTOUR INTERVALS 25-30 FEET (8-10 M) APART DEPENDING ON THE STEEPNESS OF THE SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES SHOULD BE.
8. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
9. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE ROLL AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES.
10. DRIVE THE STAKE THROUGH THE PREPARED HOLE, AND INTO THE SOIL. LEAVE ONLY 1 OR 2 INCHES (25 OR 51 MM) OF THE STAKE EXPOSED ABOVE ROLL.
11. INSTALL STAKES AT LEAST EVERY 4 FEET (1.2 M) APART ALONG THE LENGTH OF THE WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIVE OR VERY STEEP SLOPES.

INSPECTION AND MAINTENANCE

1. INSPECT AS PER FREQUENCY TABLE ON SHEET 1. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
2. REPAIR ANY RILLS OR GULLIES PROMPTLY.
3. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

8/3 FIBER ROLLS



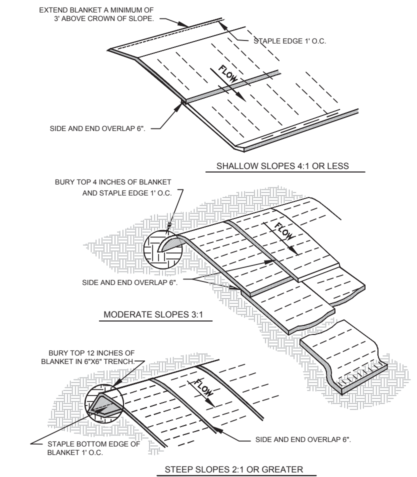
GENERAL NOTES:

1. COMPOST SOCK SHALL BE BE A MINIMUM OF 12" IN DIAMETER. THE ENGINEER OR CONTRACT.
2. COMPOST MATERIAL TO BE DISPERSED ON SITE.
3. ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.

MAINTENANCE NOTES:

1. COMPOST SOCKS SHALL BE INSPECTED AFTER EACH STORM EVENT AND REAPPLIED IF NEEDED.
2. SEDIMENT RETAINED BY THE SOCK SHALL BE REMOVED WHEN IT HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE BERM. THE SEDIMENT CAN ALSO BE STABILIZED WITH VEGETATION AT THE END OF CONSTRUCTION.
3. BERMS CAN BE LEFT ONSITE AND SEEDED, OR SPREAD OUT AS SOIL ENHANCEMENT.

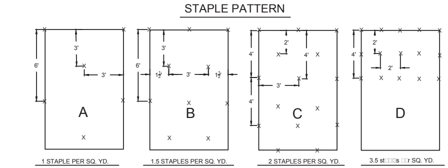
9/3 COMPOST ROLLS



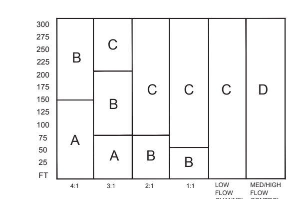
NOTES:

1. ON SHALLOW SLOPES BLANKETS MAY BE APPLIED ACROSS THE SLOPE.
2. ALL BLANKETS ARE REQUIRED TO BE STAPLED PER THE DETAIL.

STAPLE PATTERN

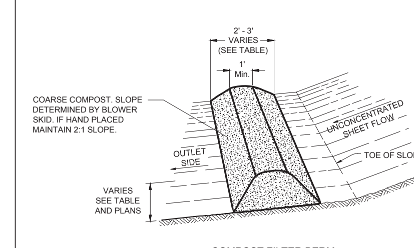


LENGTH AND SLOPE TABLE



*MINIMUM STAPLE PATTERN GUIDE AND RECOMMENDATION FOR SLOPE AND CHANNEL APPLICATION.

10/3 EROSION CONTROL MATTING



COMPOST FILTER BERM

GENERAL NOTES:

1. COMPOST FILTER BERMS ARE SEDIMENT CONTROL DEVICES FOR AREAS WHERE RUNOFF OCCURS AS SHEET FLOW. SEE SECTION 00280, OREGON STANDARD SPECIFICATIONS.
2. THE MAXIMUM DRAINAGE AREA FOR A CONTINUOUS BERM SHALL BE 1 ACRE PER 100 LINEAR FEET OF FILTER BERM.
3. WHERE POSSIBLE, BERMS SHOULD BE PLACED AWAY FROM THE TOE OF SLOPES A MINIMUM OF 5 FEET (10 FEET PREFERRED) TO ALLOW FOR ENERGY DISSIPATION AND SEDIMENT STORAGE.
4. PLACE THE BERMS PARALLEL TO THE CONTOURS WITH THE ENDS OF THE BERM TURNED UP.
5. THE BERM MAY BE VEGETATED WITH TEMPORARY OR PERMANENT SEEDING.
6. IF PLACED IN AN AREA WITH EXISTING VEGETATION, CUT VEGETATION TO 2-3" IN HEIGHT. DO NOT REMOVE THE EXISTING VEGETATION.

MAINTENANCE NOTES:

1. COMPOST SOCKS SHALL BE INSPECTED AFTER EACH STORM EVENT AND REAPPLIED IF NEEDED.
2. SEDIMENT RETAINED BY THE SOCK SHALL BE REMOVED WHEN IT HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE BERM. THE SEDIMENT CAN ALSO BE STABILIZED WITH VEGETATION AT THE END OF CONSTRUCTION.
3. BERMS CAN BE LEFT ONSITE AND SEEDED, OR SPREAD OUT AS SOIL ENHANCEMENT.

COMPOST FILTER BERM DIMENSIONS AND SPACING BASED ON SLOPE

SLOPE	BERM SPACING	BERM DIMENSIONS HEIGHT	BOTTOM WIDTH	TOP WIDTH
< 50:1	250 ft	1 ft	2 ft (min)	1 ft
50:1 - 10:1	125 ft	1 ft	2 ft (min)	1 ft
10:1 - 5:1	100 ft	1 ft	2 ft (min)	1 ft
3:1 - 2:1	50 ft	1.3 ft	2.6 ft (min)	1 ft
> 2:1	25 ft	1.5 ft	3 ft (min)	1 ft

11/3 COMPOST BERM

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PRELIMINARY

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SCALE:	NTS	HORZ.
		VERT.

PROJECT INFORMATION

BOARDMAN TO HEMINGWAY 500kV LINE #XXX EROSION AND SEDIMENT CONTROL PLANS

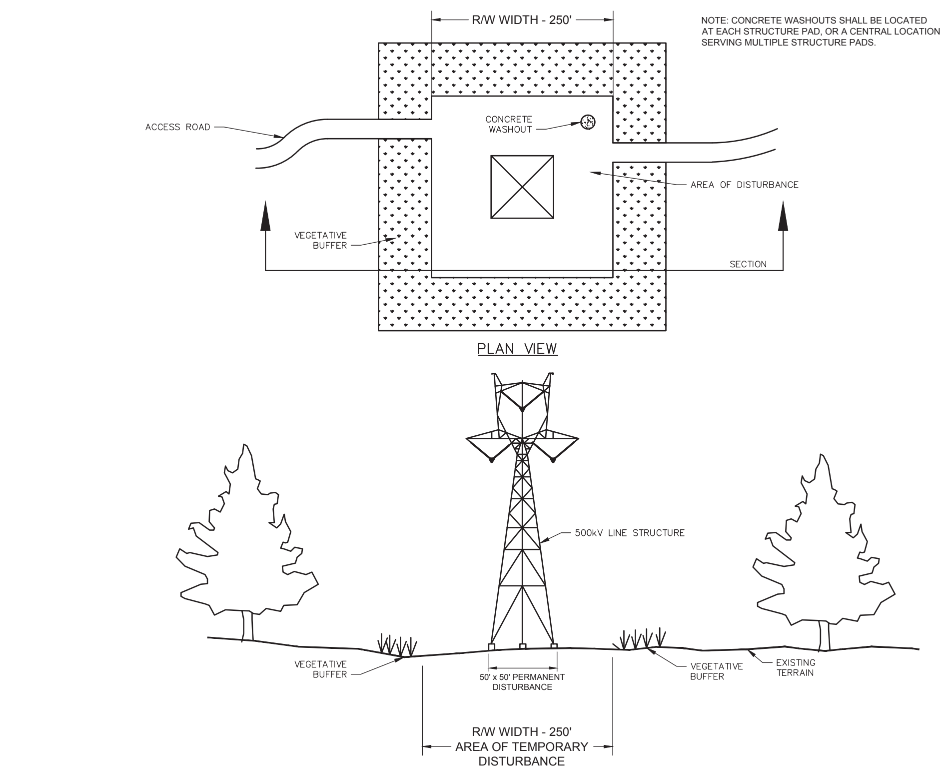
TRANSMISSION DEPARTMENT

DRAWING #: DETAILS A

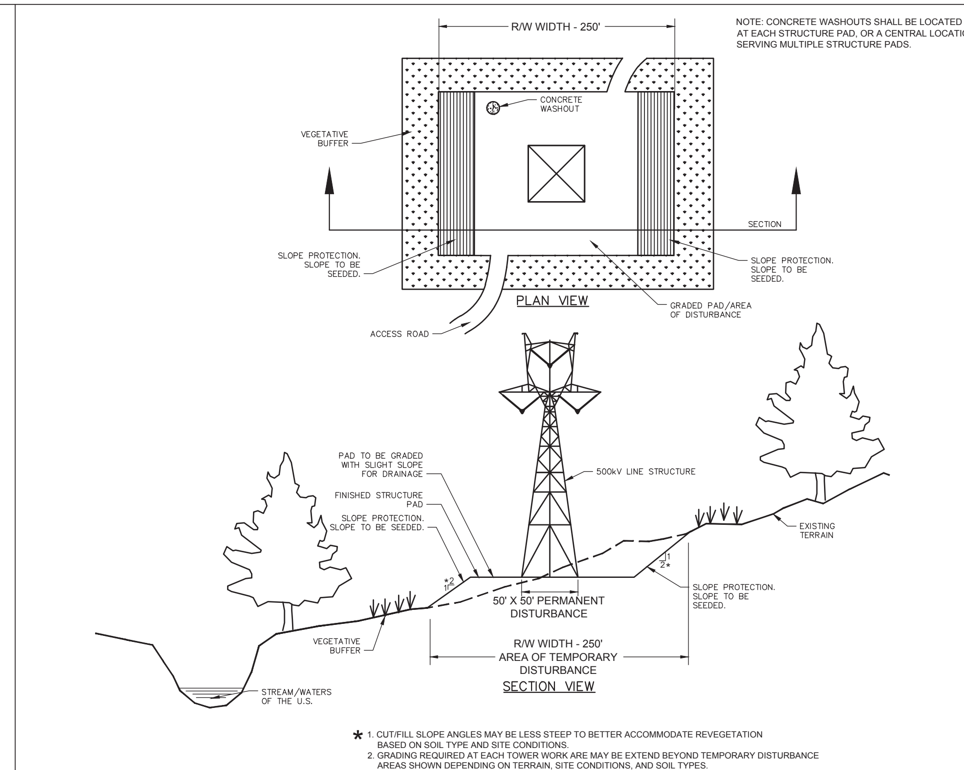
VAULT #: 23D–00000–00

SHEET #: 3 OF 5

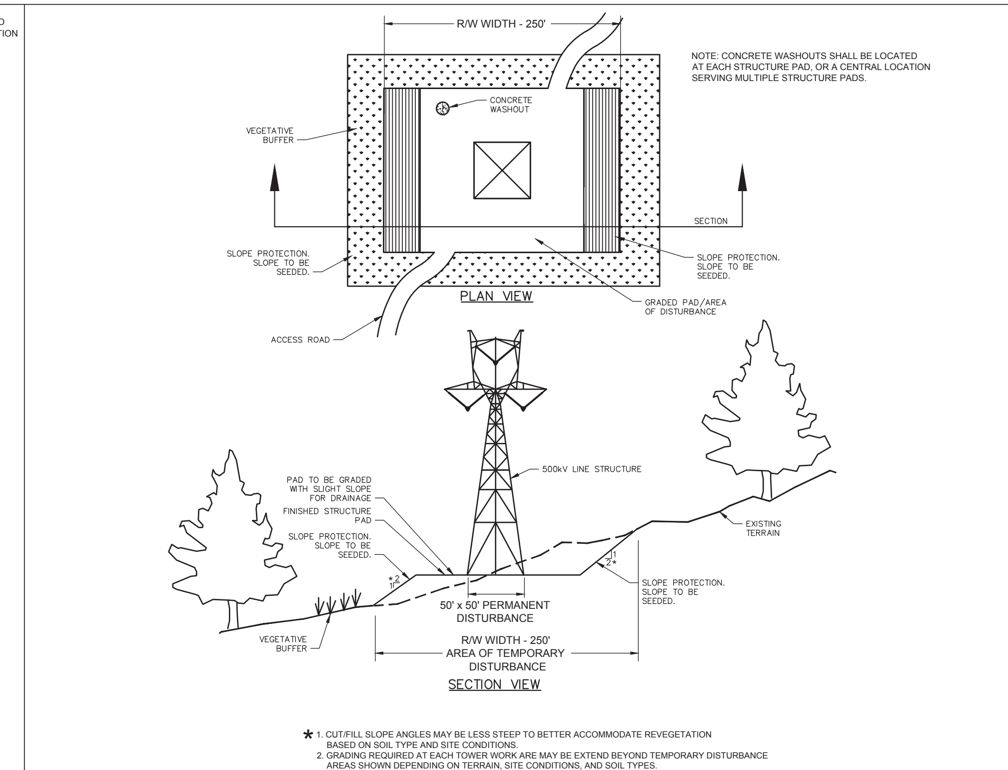
Mar 15, 2012 - 6:40pm S:\ALL PROJECTS\Idaho B2H 500kV Line\SWPPP 1 Mile\DWG\...



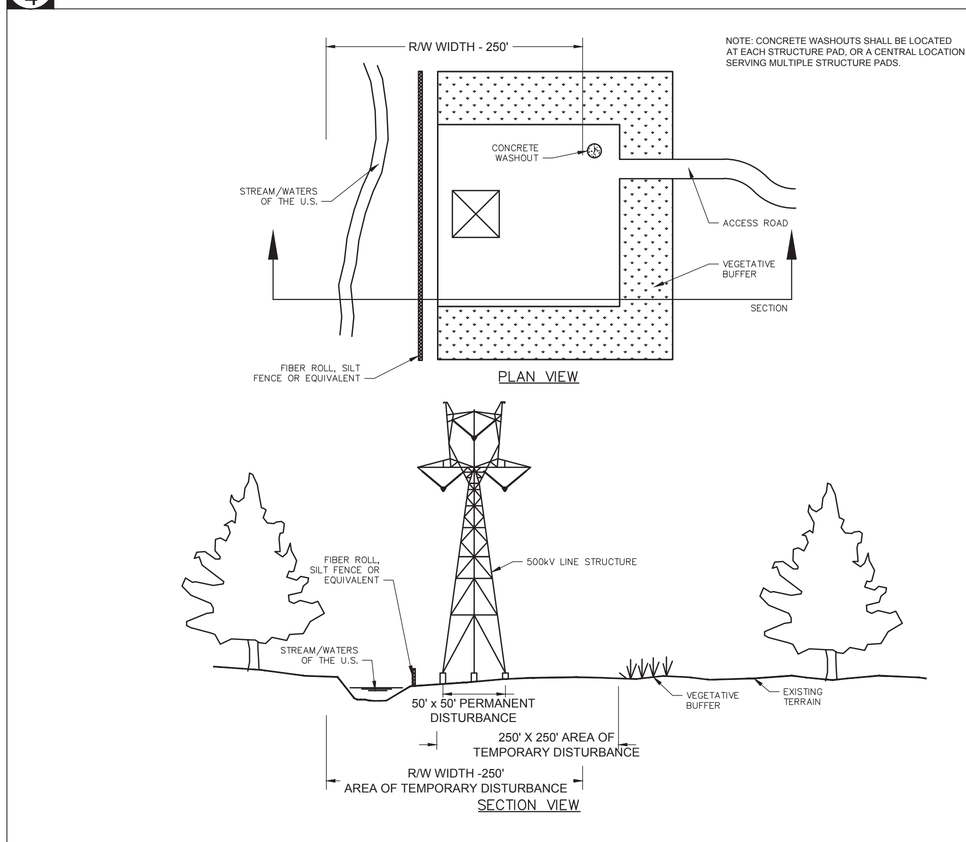
1/4 TYPICAL STRUCTURE SITE



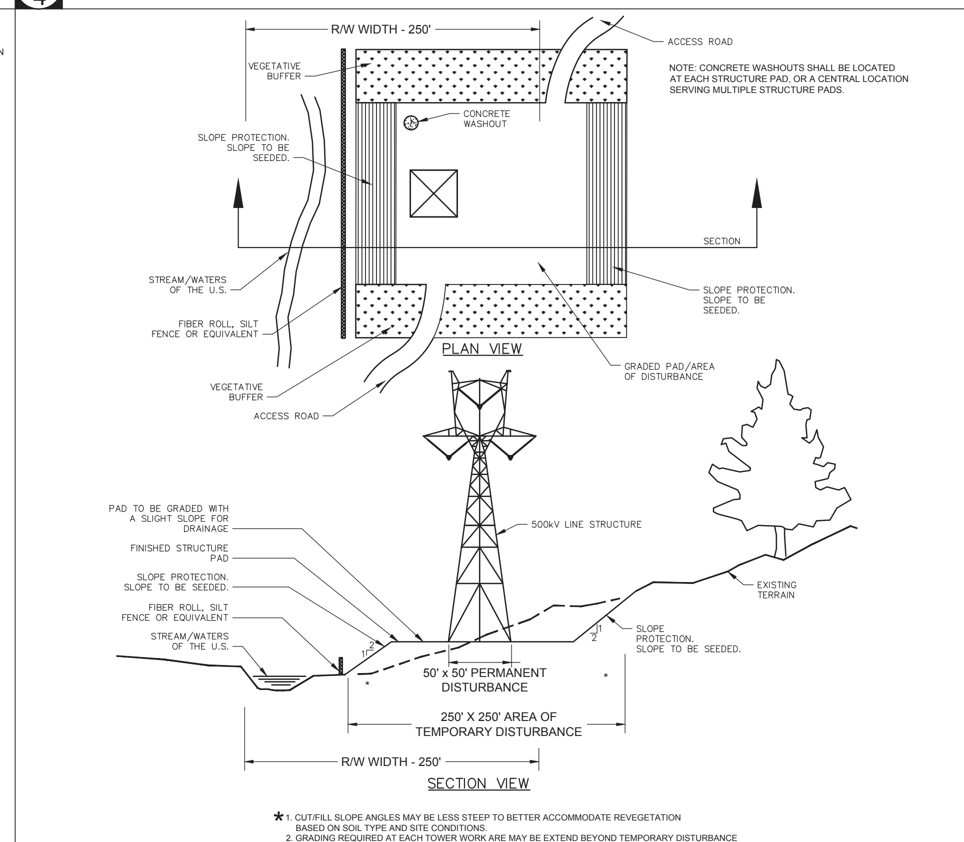
3/4 TYPICAL STRUCTURE SITE-ALTERNATE 2



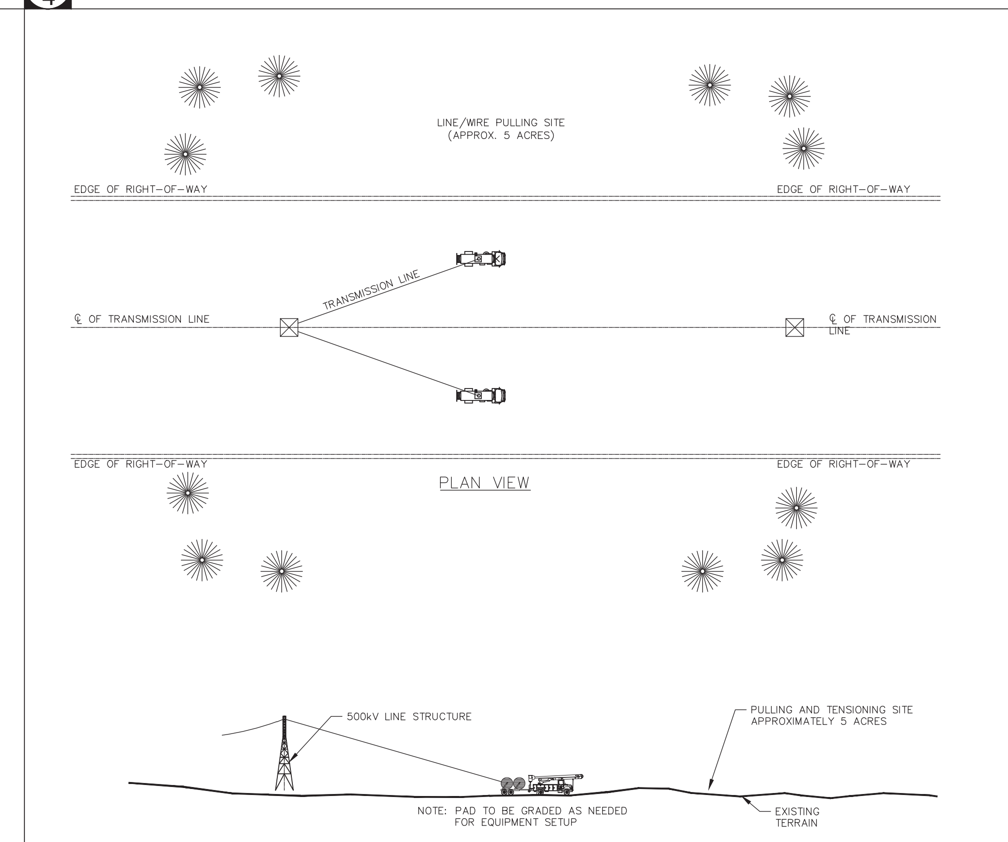
5/4 TYPICAL STRUCTURE SITE-ALTERNATE 4



2/4 TYPICAL STRUCTURE SITE-ALTERNATE 1



4/4 TYPICAL STRUCTURE SITE-ALTERNATE 3



6/4 PULLING AND TENSIONING SITE

IDAHO POWER.

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PRELIMINARY

REFERENCES	DATE
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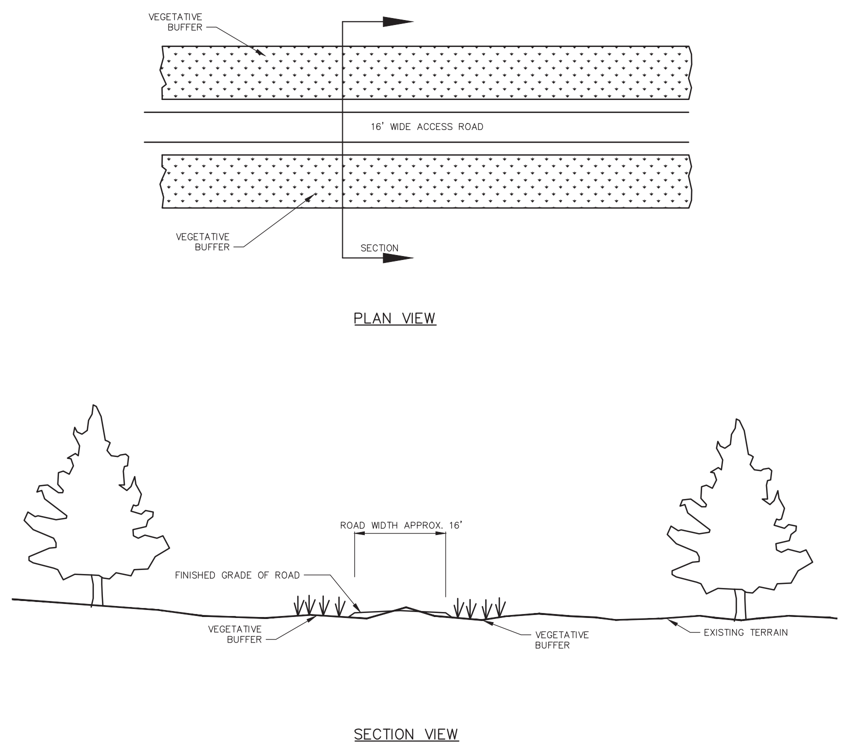
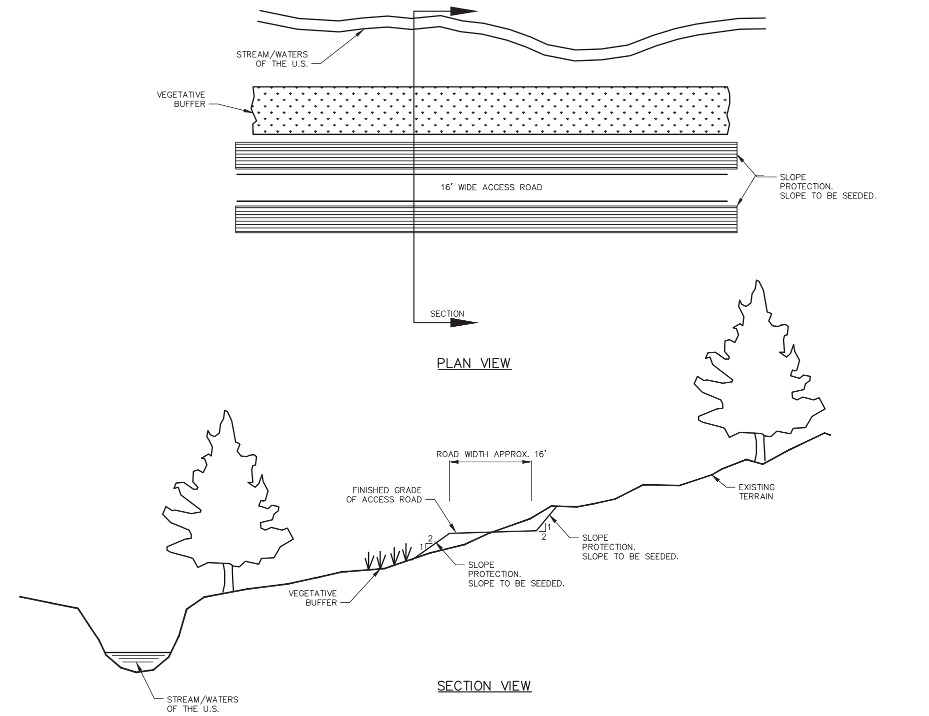
SCALE: NTS	HORZ.
	VERT.

PROJECT INFORMATION
BOARDMAN TO HEMINGWAY
500kV LINE #XXX
EROSION AND SEDIMENT CONTROL PLANS

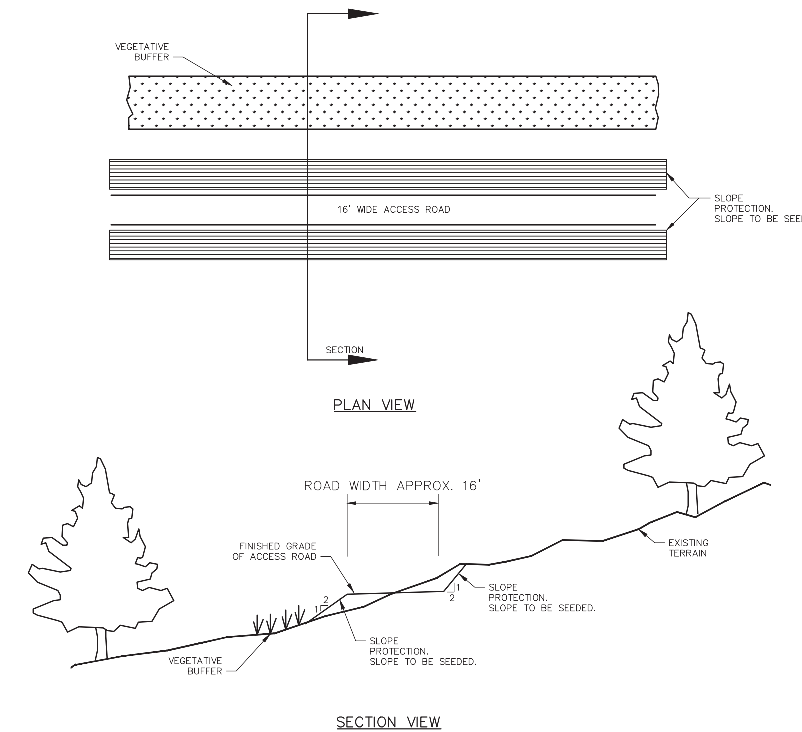
TRANSMISSION DEPARTMENT
DRAWING #: DETAILS B
VAULT #: 23D-00000-00
SHEET #: 4 OF 5



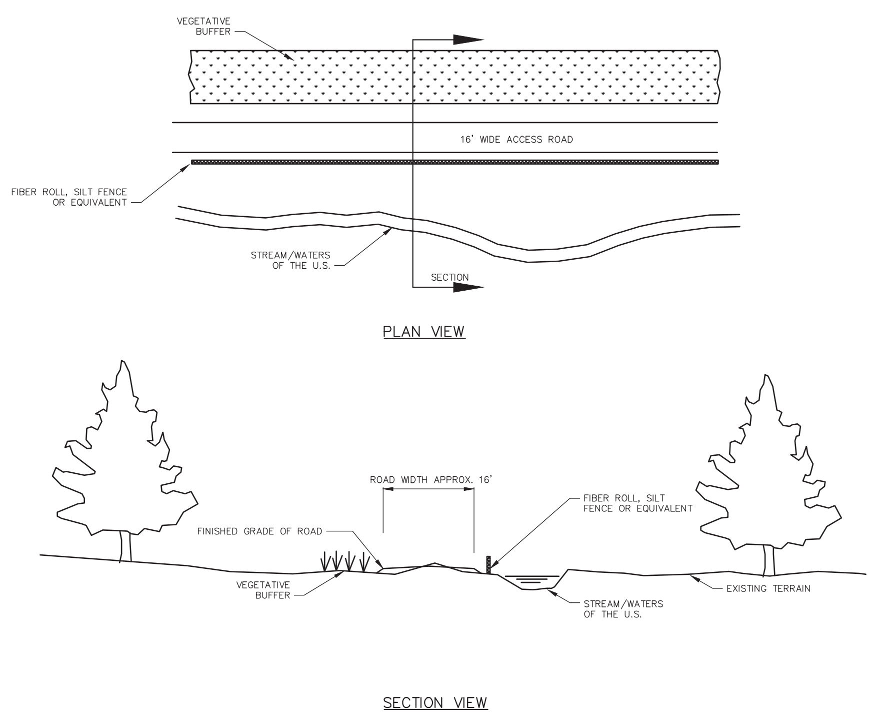
1/5 TYPICAL ACCESS ROAD INSTALLATION

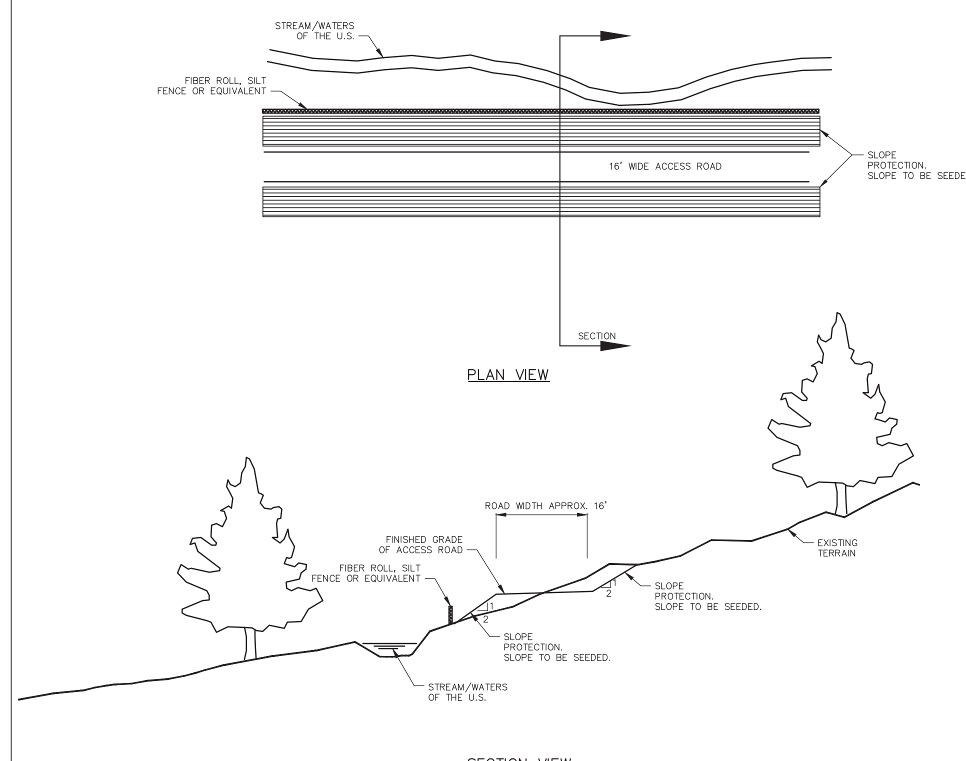


3/5 TYPICAL ACCESS ROAD INSTALLATION-ALTERNATE 2



5/5 TYPICAL ACCESS ROAD INSTALLATION-ALTERNATE 4





WATERBAR INSTALLATION FREQUENCY

SLOPE (%)	SPACING (FT)
<5%	125
5 TO 10	100
10 TO 20	75
20 TO 35	50
>35	25

2/5 TYPICAL ACCESS ROAD INSTALLATION-ALTERNATE 1

4/5 TYPICAL ACCESS ROAD INSTALLATION-ALTERNATE 3

PRELIMINARY

IDAHO POWER. An IDACORP Company

REV.	DESCRIPTION	DATE	C.E.G.	DSGN	DFTR
0	B2H EROSION AND SEDIMENT CONTROL PLANS – DRAFT	10-10-11	DKR	KTM	CAH
1	REVISE	11-22-11	DKR	KTM	KTM

REFERENCES	DATE
DESIGNER: KTM	10-10-11
DRAFTER: CAH	10-10-11
C.E.G. DKR	10-10-11
SCALE: NTS	HORZ.
	VERT.

PROJECT INFORMATION
BOARDMAN TO HEMINGWAY
500kV LINE #XXX
EROSION AND SEDIMENT CONTROL PLANS

TRANSMISSION DEPARTMENT
DRAWING #: DETAILS C
VAULT #: 23D-00000-00
SHEET #: 5 OF 5

ATTACHMENT I-4
ODEQ 1200-C PERMIT ACKNOWLEDGEMENT

Oregon
John A. Kitzhaber, Governor

Department of Environmental Quality
Eastern Region Bend Office
475 NE Bellevue Drive, Suite 110
Bend, OR 97701
(541) 388-6146
FAX (541) 388-8283
TTY 711

December 27th, 2012

Sue Oliver
Energy Facility Analyst
Oregon Department of Energy
395 E. Highland Ave.
Hermiston, OR 97838

Re: Confirmation of Permit Application for
Boardman to Hemingway Transmission Line Project
1200-C Construction Stormwater Permit
Substation near Boardman to Hemingway substation
near Melba, ID

Dear Ms. Oliver:

On November 30th 2012, the Department of Environmental Quality received a National Pollutant Discharge Elimination System (NPDES) 1200-C permit application for stormwater discharge from the construction of Boardman to Hemingway Transmission Line Project (B2H). The application was submitted to Jackie Ray, Eastern Region Water Quality Permit Coordinator, in DEQ's Pendleton office. Payment for the permit application was received and processed by Ms. Ray on December 10th, 2012.

Now that payment has been received, the permit application is complete with the exception of a site certification from the Oregon Department of Energy (ODOE) and final review of revisions to the Erosion and Sediment Control Plan (ESCP). The permit application will be approved once the final alignment is determined; a final ESCP meets the permit requirements and pending the determination by the Energy Facility Siting Council that the B2H Project meets Oregon's land use standards.

I have given the ESCP a preliminary review. While the preliminary ESCP is incomplete pending some additional information, I expect that DEQ will be able to issue the NPDES 1200-C construction stormwater permit for the B2H Project within two to three weeks of receiving the site certificate from ODOE and receiving the final version of the ESCP.

Should you have any questions about the content of this letter, please contact me at 541-633-2033 or ratliff.krista@deq.state.or.us.

Sincerely,

Krista Ratliff
Natural Resource Specialist, Stormwater
DEQ - Eastern Region
475 NE Bellevue Dr Suite 110
Bend, OR 97701