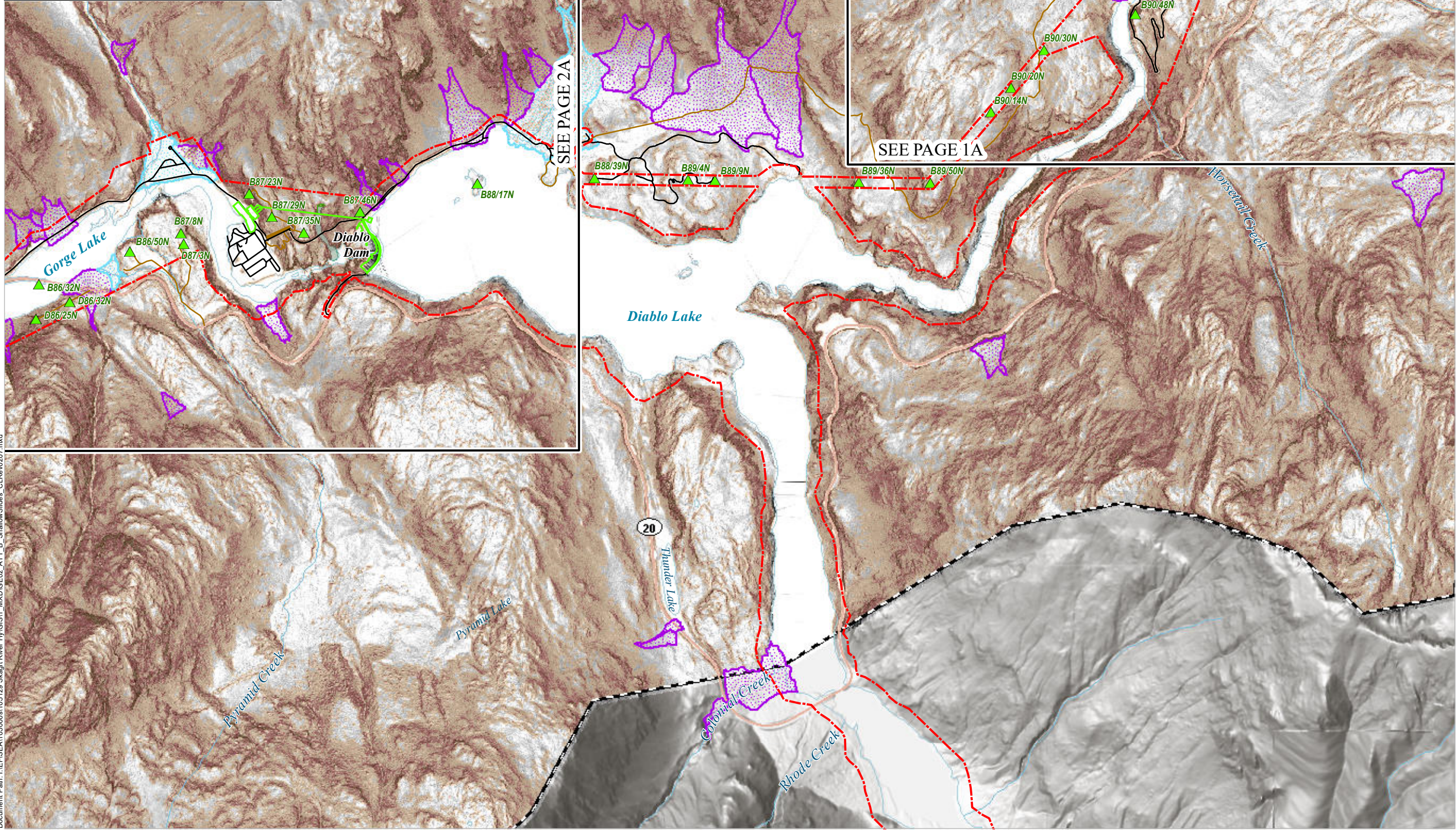
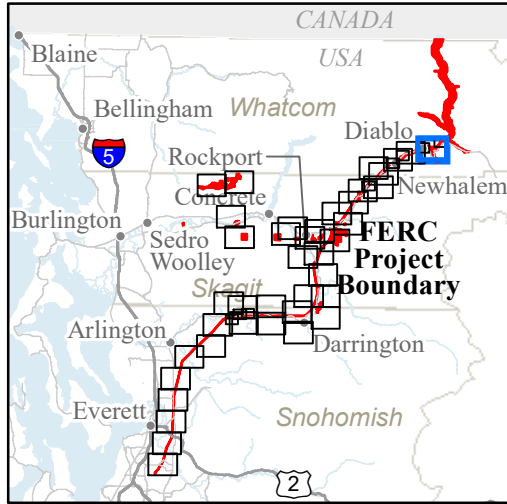


**EROSION AND GEOLOGIC HAZARDS AT PROJECT FACILITIES
AND TRANSMISSION LINE RIGHT-OF-WAY STUDY
INTERIM REPORT**

ATTACHMENT B

SHALLOW LANDSLIDES AND SUSCEPTIBILITY MAPBOOK



GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Major Facilities
- City Light Transmission Line Tower Locations

Study Routes

- Road
- Trail
- Mass Wasting Study Boundary
- Landslide Scarps
- Shallow Landslide Head Scarps and Flanks
- Shallow Landslide Deposits

Fan Deposits

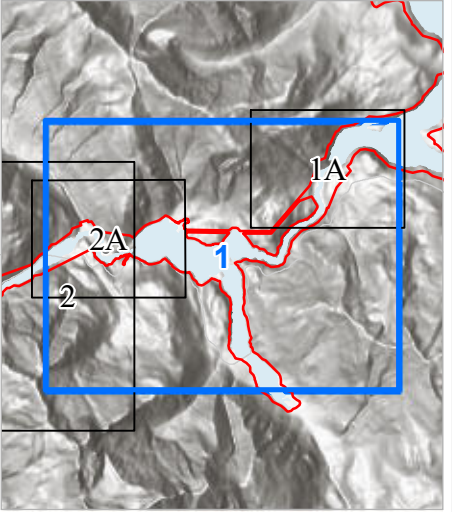
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

0 1,000 2,000 Feet

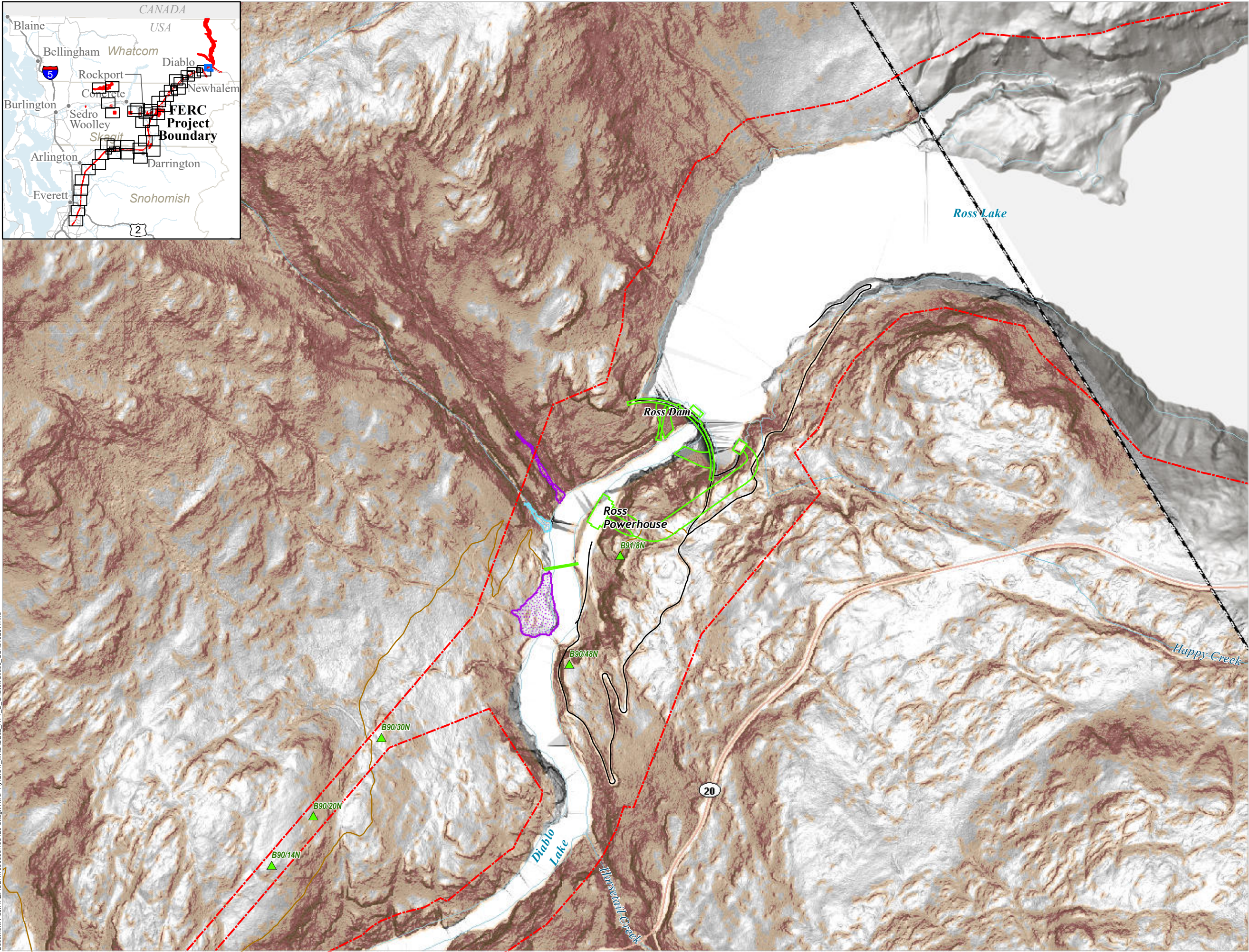
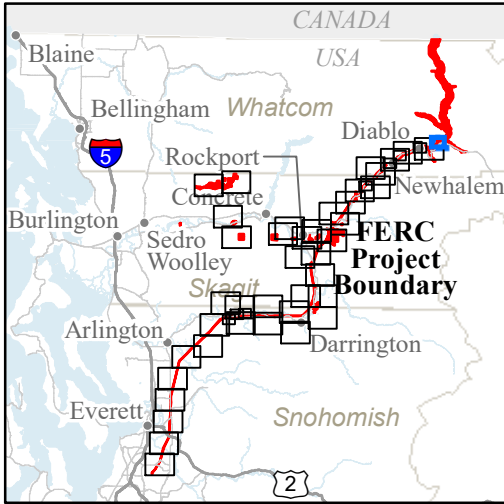
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Seattle City Light

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Fan Deposits

- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

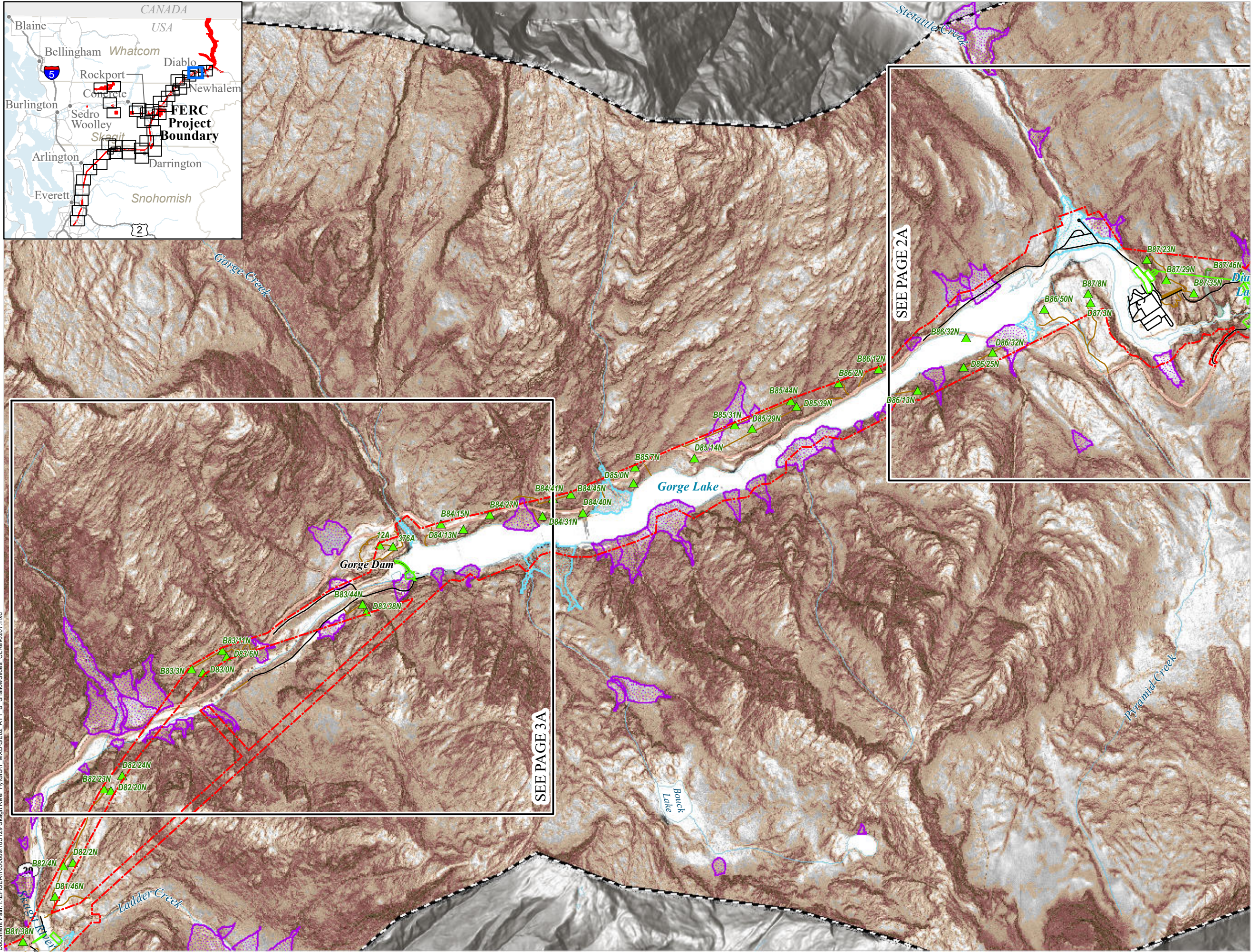
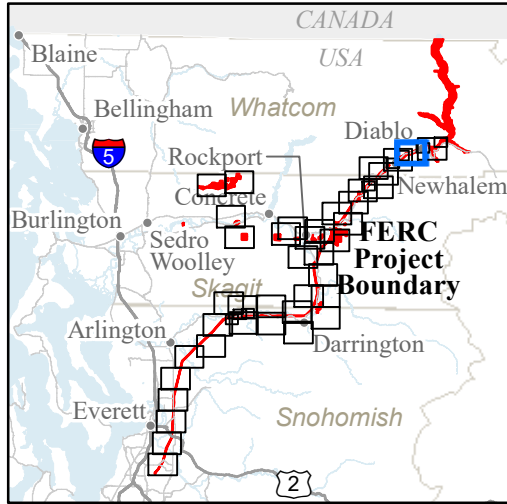
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Page 1A of 40

Seattle City Light

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- Shallow Landslide Deposits

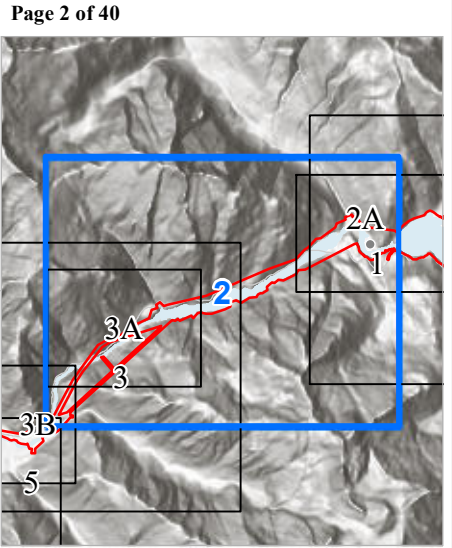
Fan Deposits

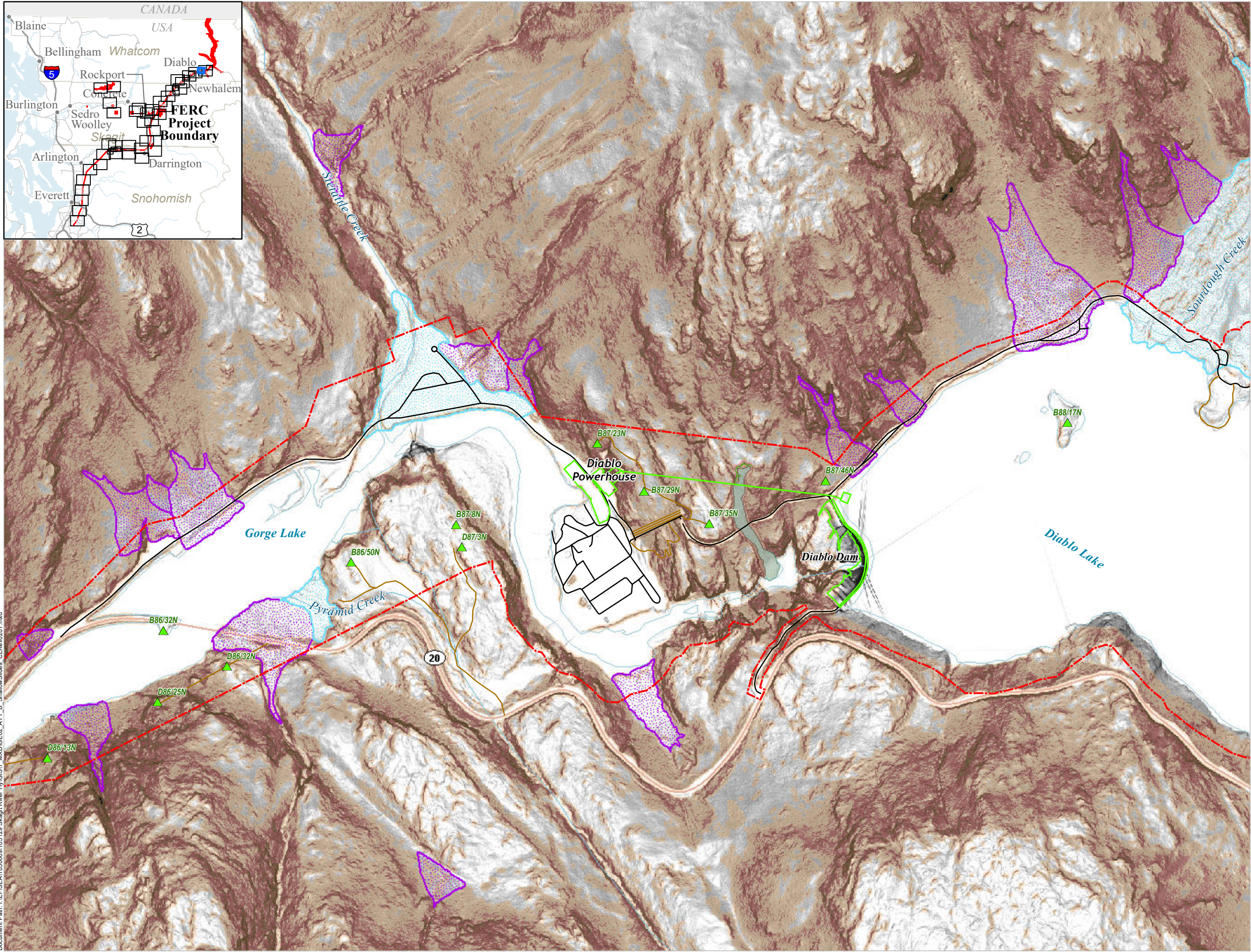
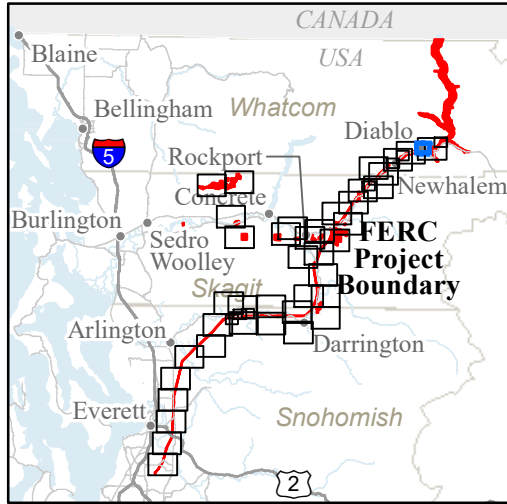
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

0 1,000 2,000 Feet





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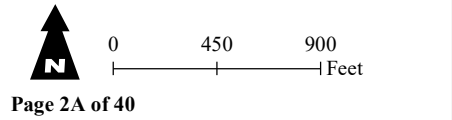
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- Shallow Landslide Head Scars and Flanks
- Shallow Landslide Deposits

Fan Deposits

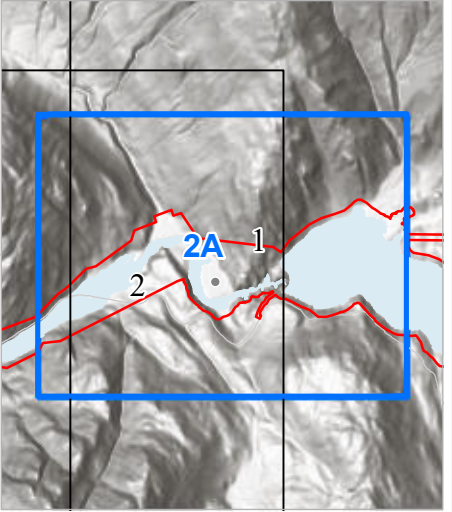
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



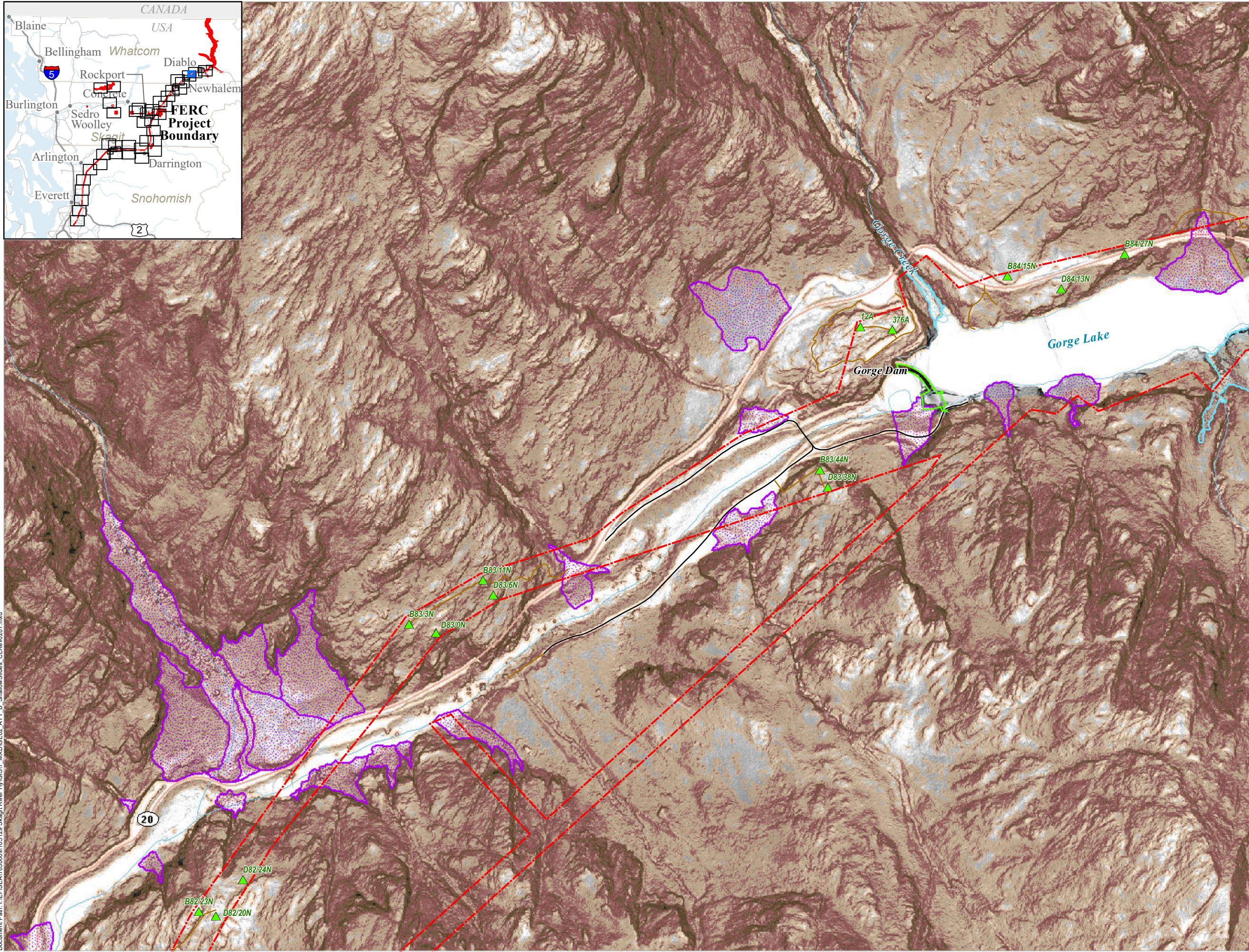
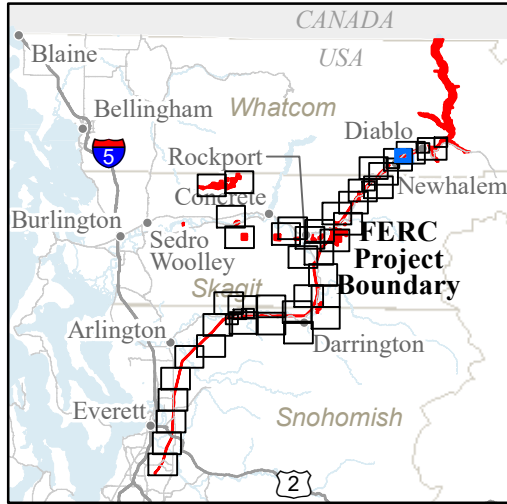
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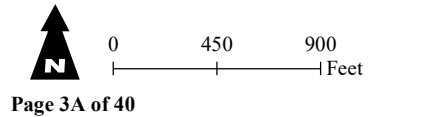
- Road
- Trail
- Mass Wasting Study Boundary

Fan Deposits

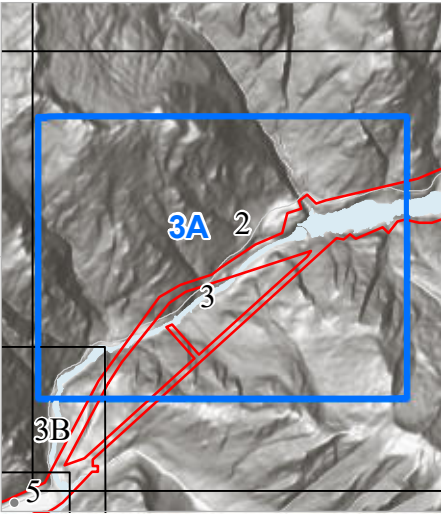
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



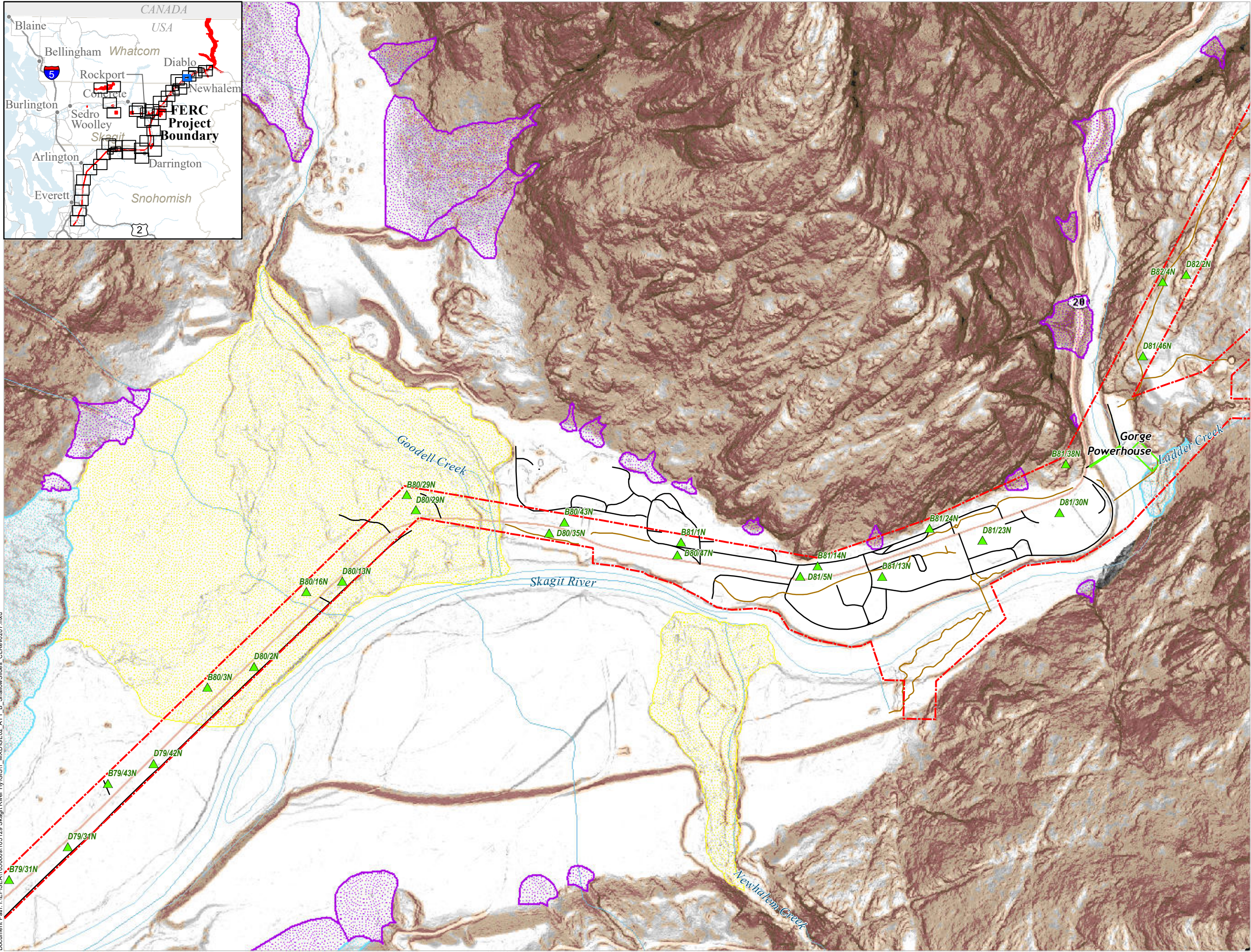
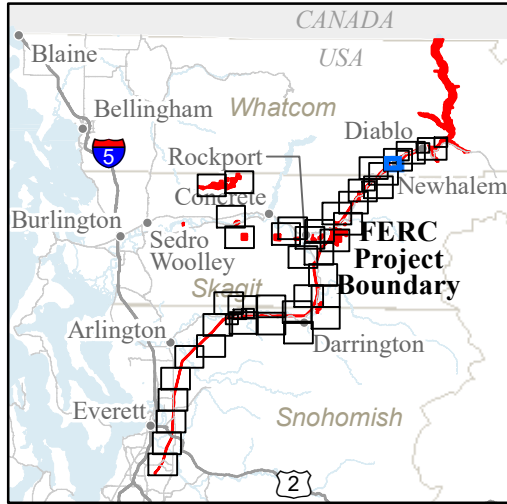
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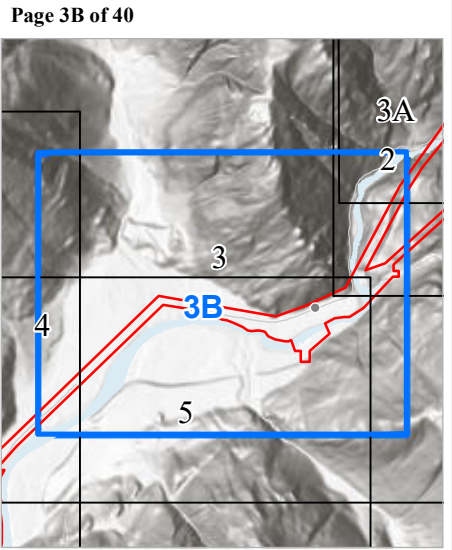
Fan Deposits

- Alluvial
- Debris Flood
- Debris Flow

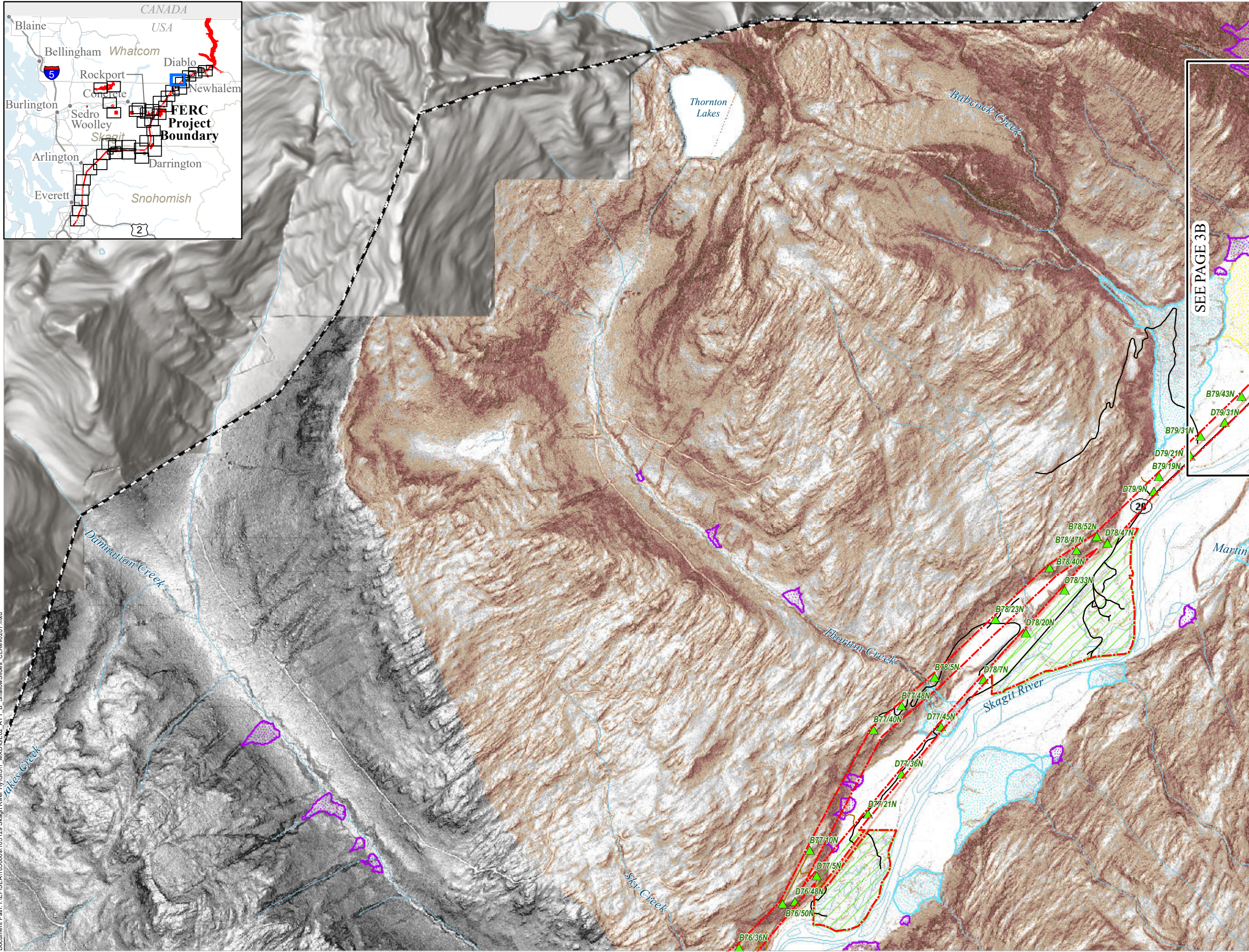
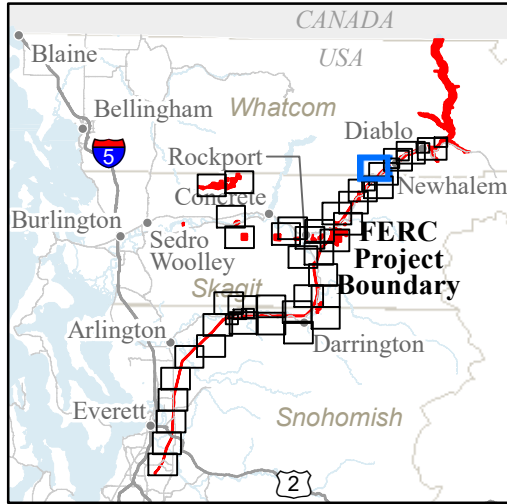
Shallow Landslide Susceptibility

- Low
- Moderate
- High

0 450 900 Feet



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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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- City Light Mitigation Parcels

Study Routes

- Road
- Trail
- Mass Wasting Study Boundary

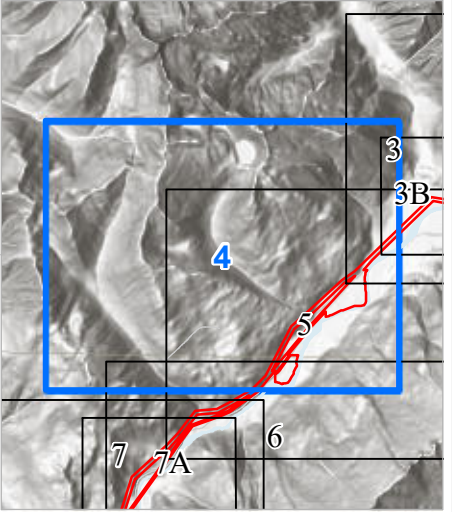
Fan Deposits

- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

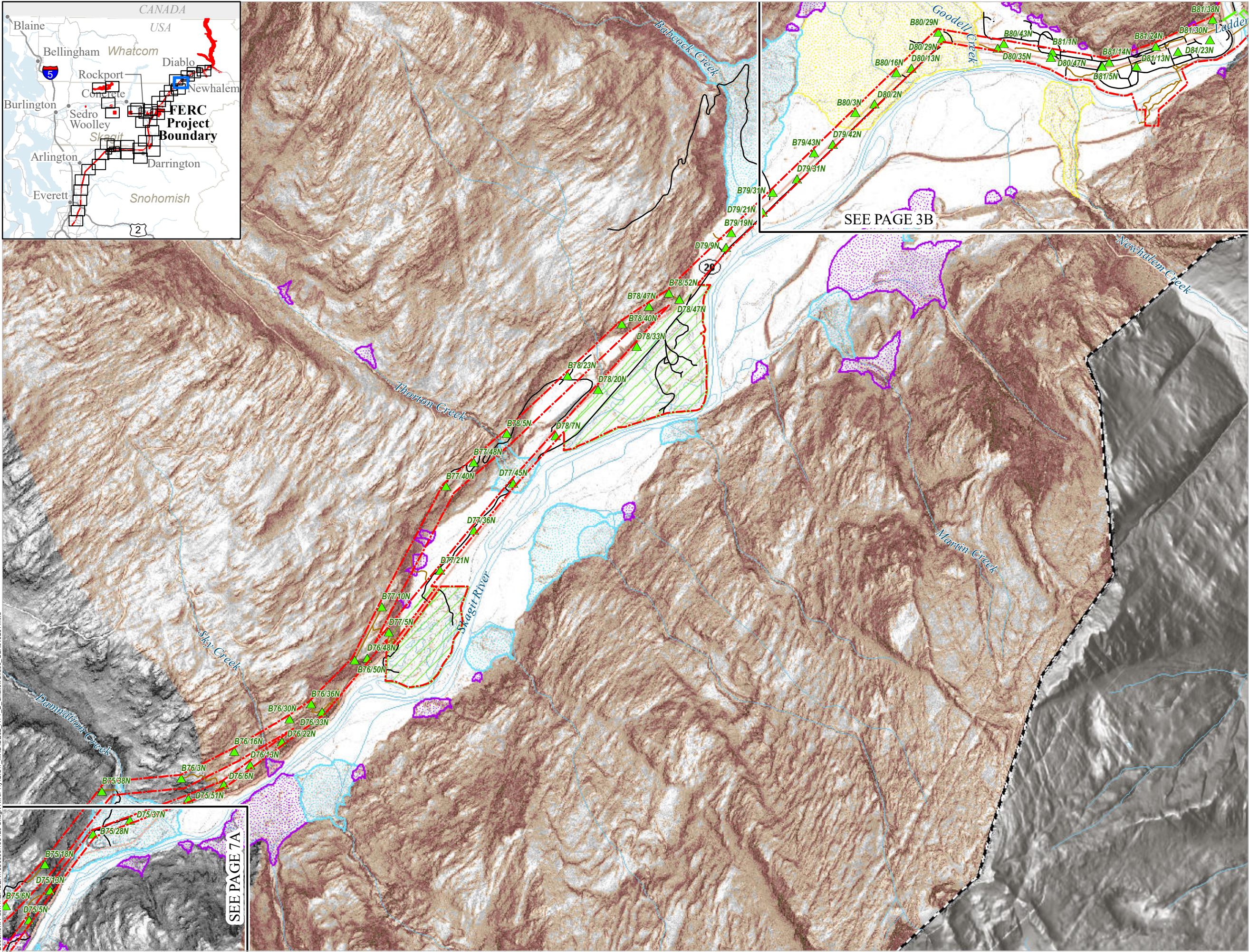
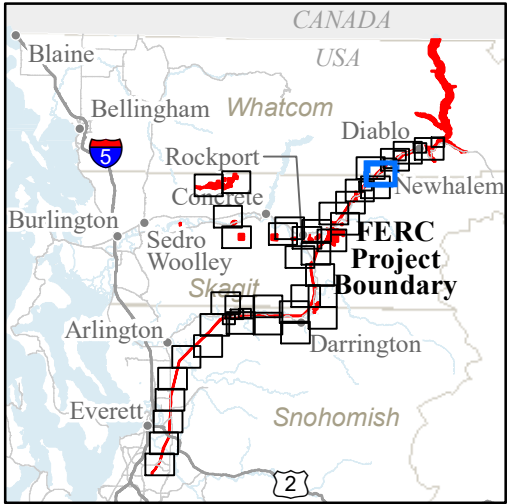
- Low
- Moderate
- High

01,0002,000
Feet



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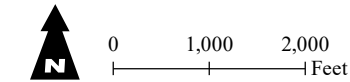
- Mass Wasting Study Boundary

Fan Deposits

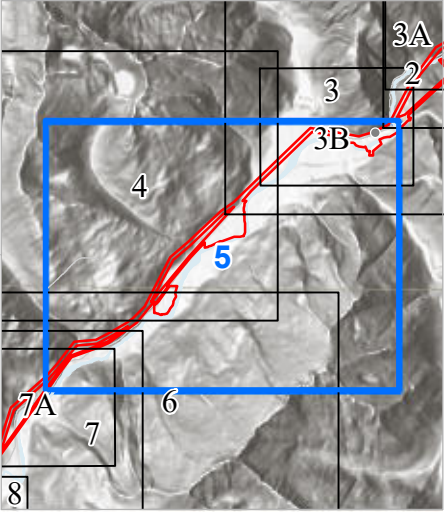
- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



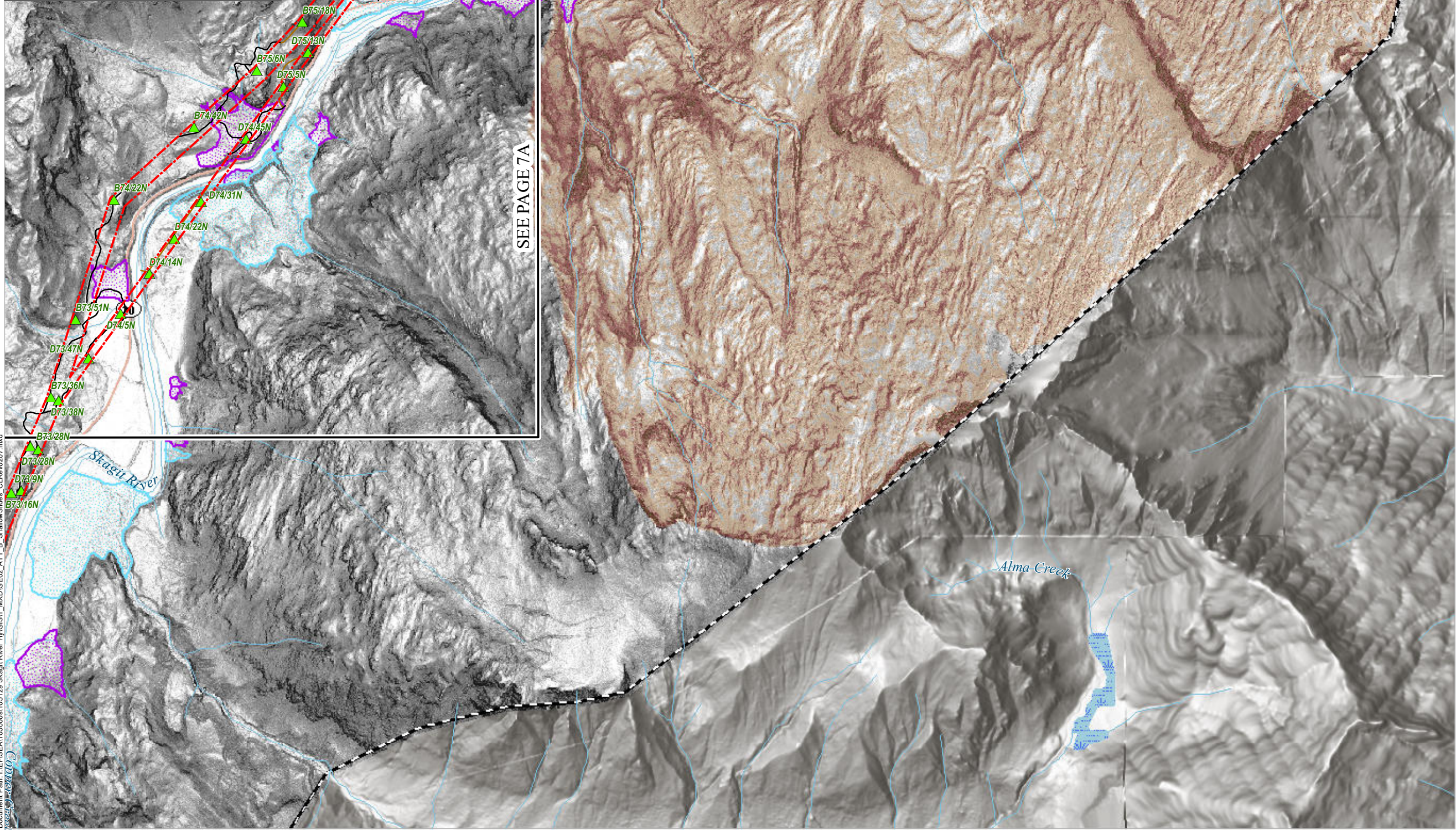
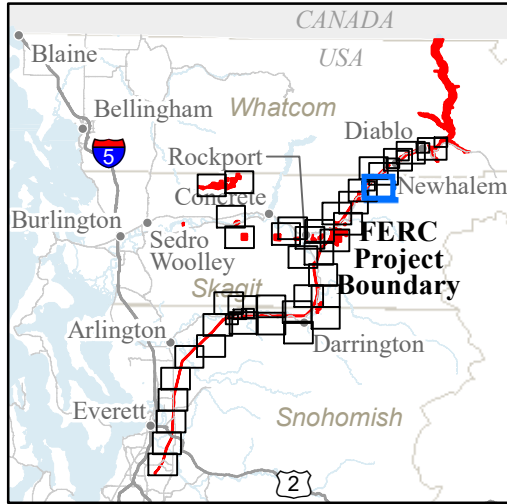
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Seattle City Light

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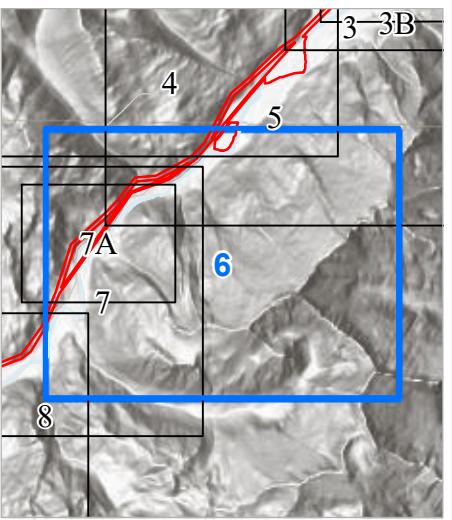
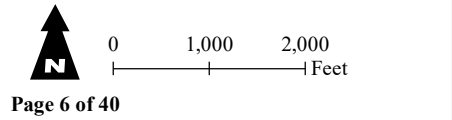
- Road
- Trail
- Mass Wasting Study Boundary

Fan Deposits

- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

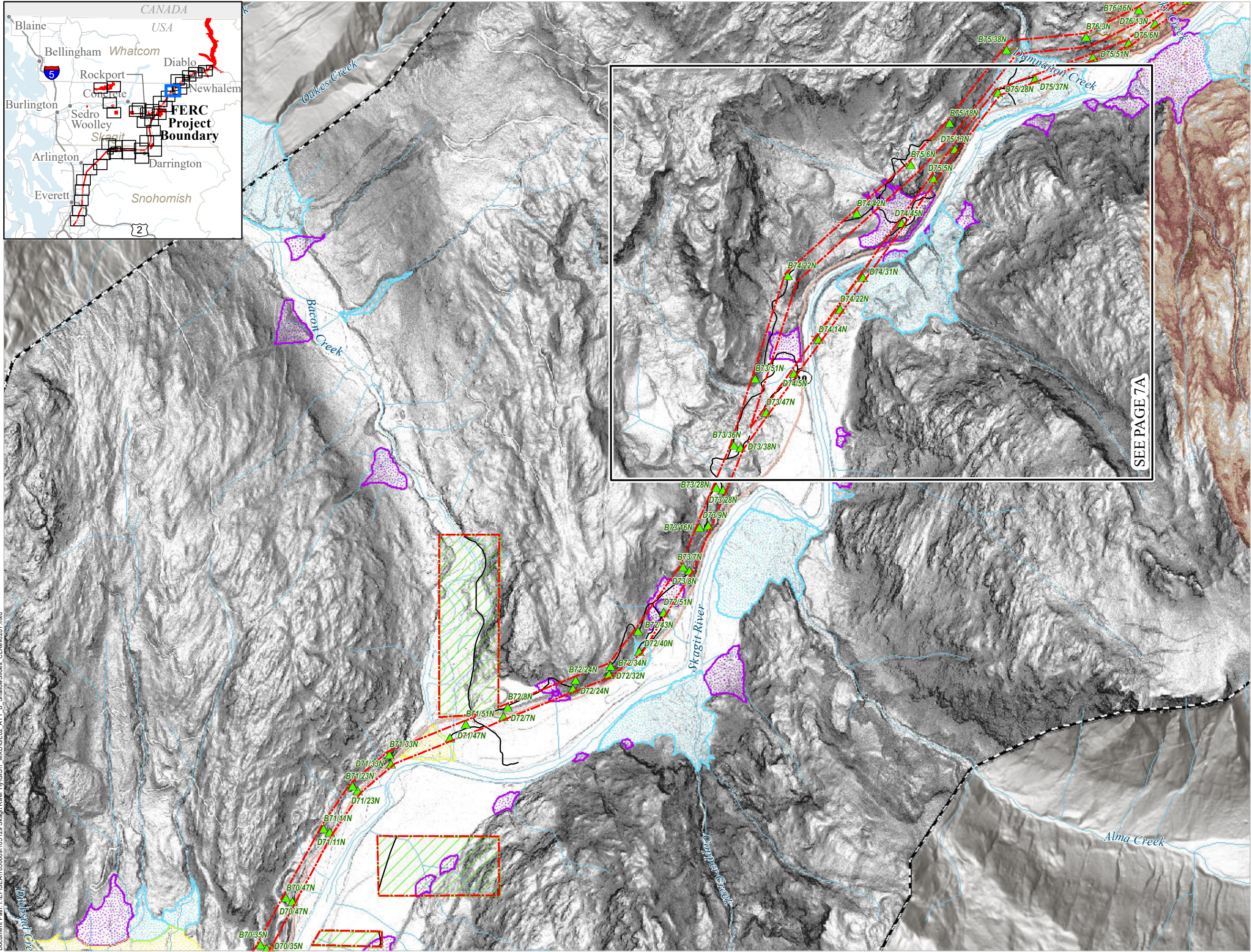
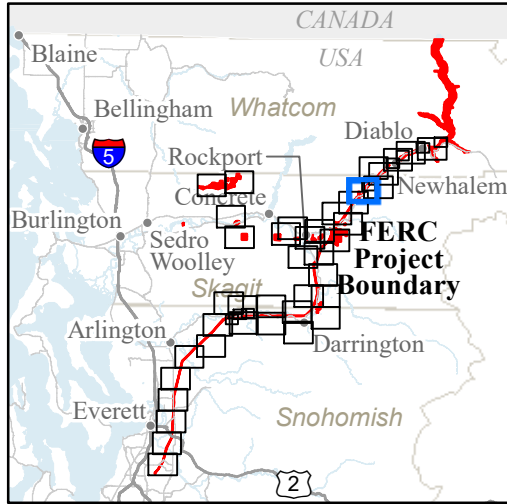
- Low
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- High



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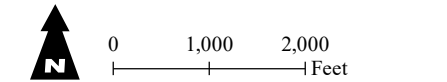
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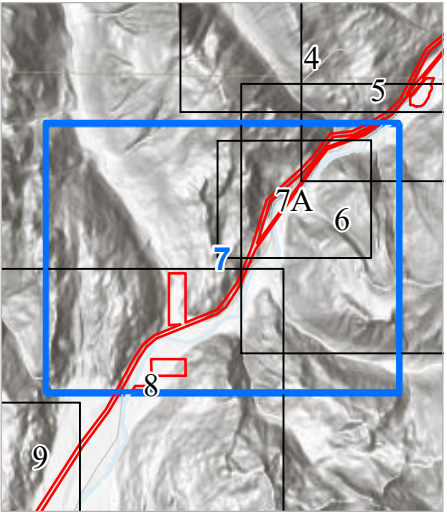
- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



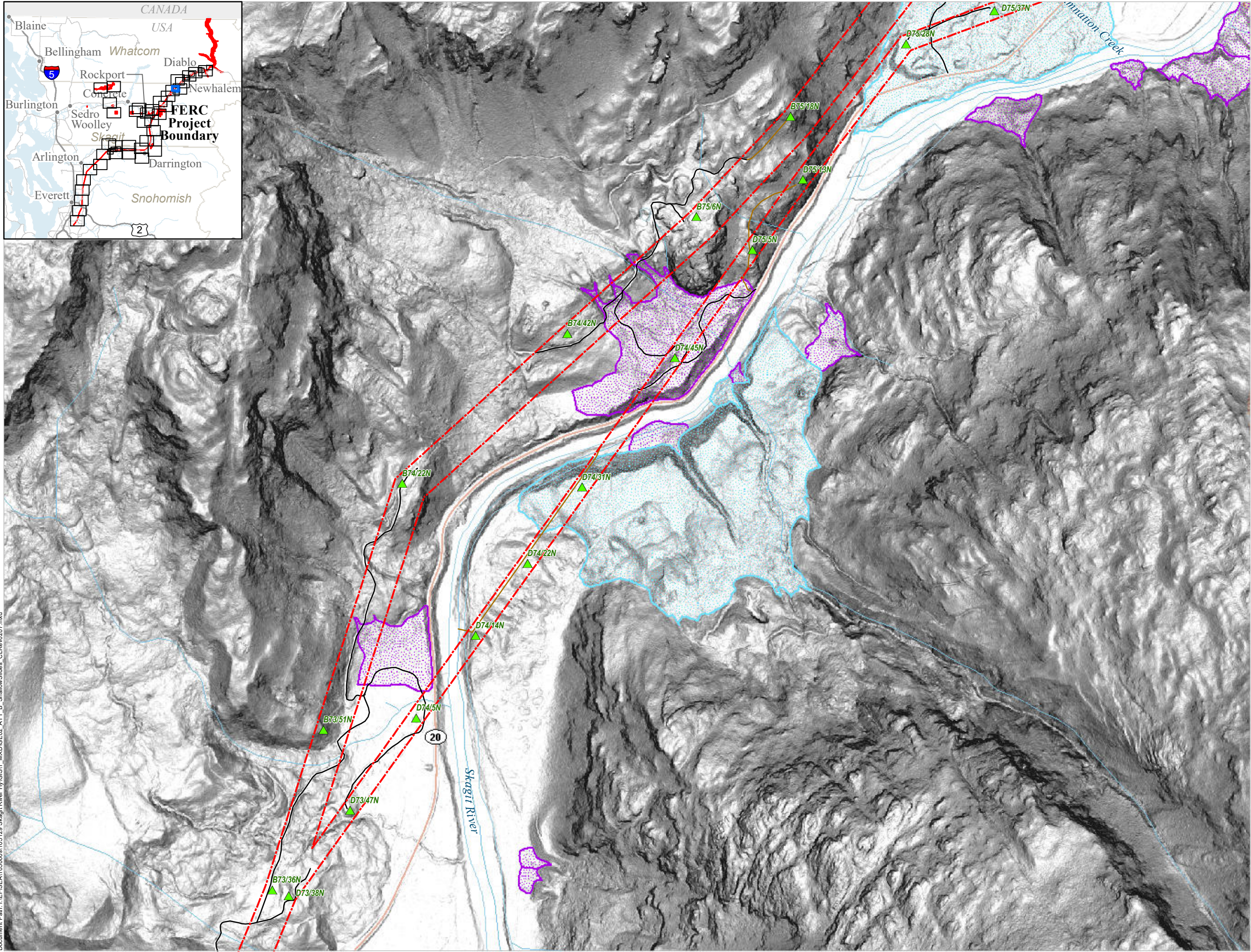
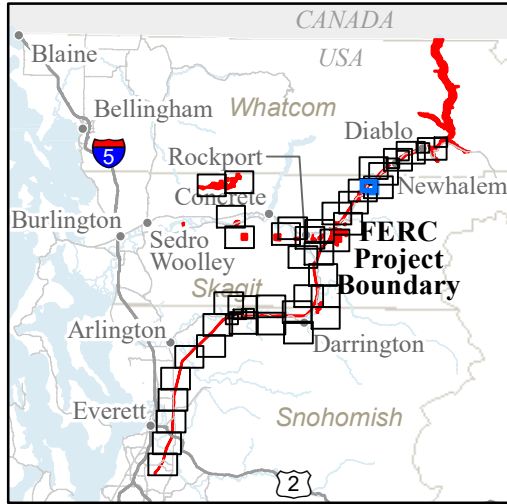
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Seattle City Light

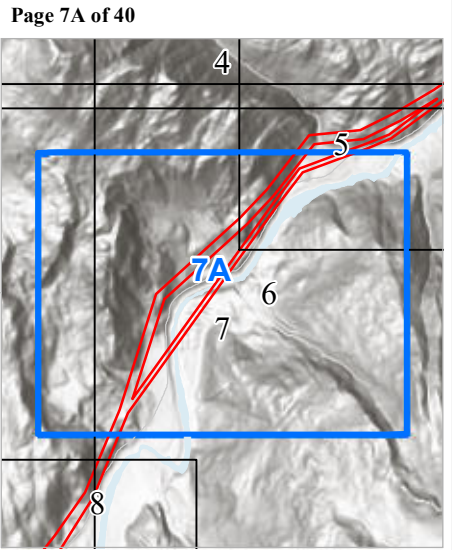
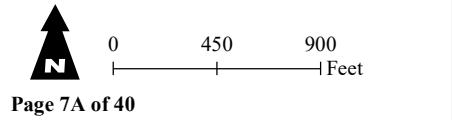
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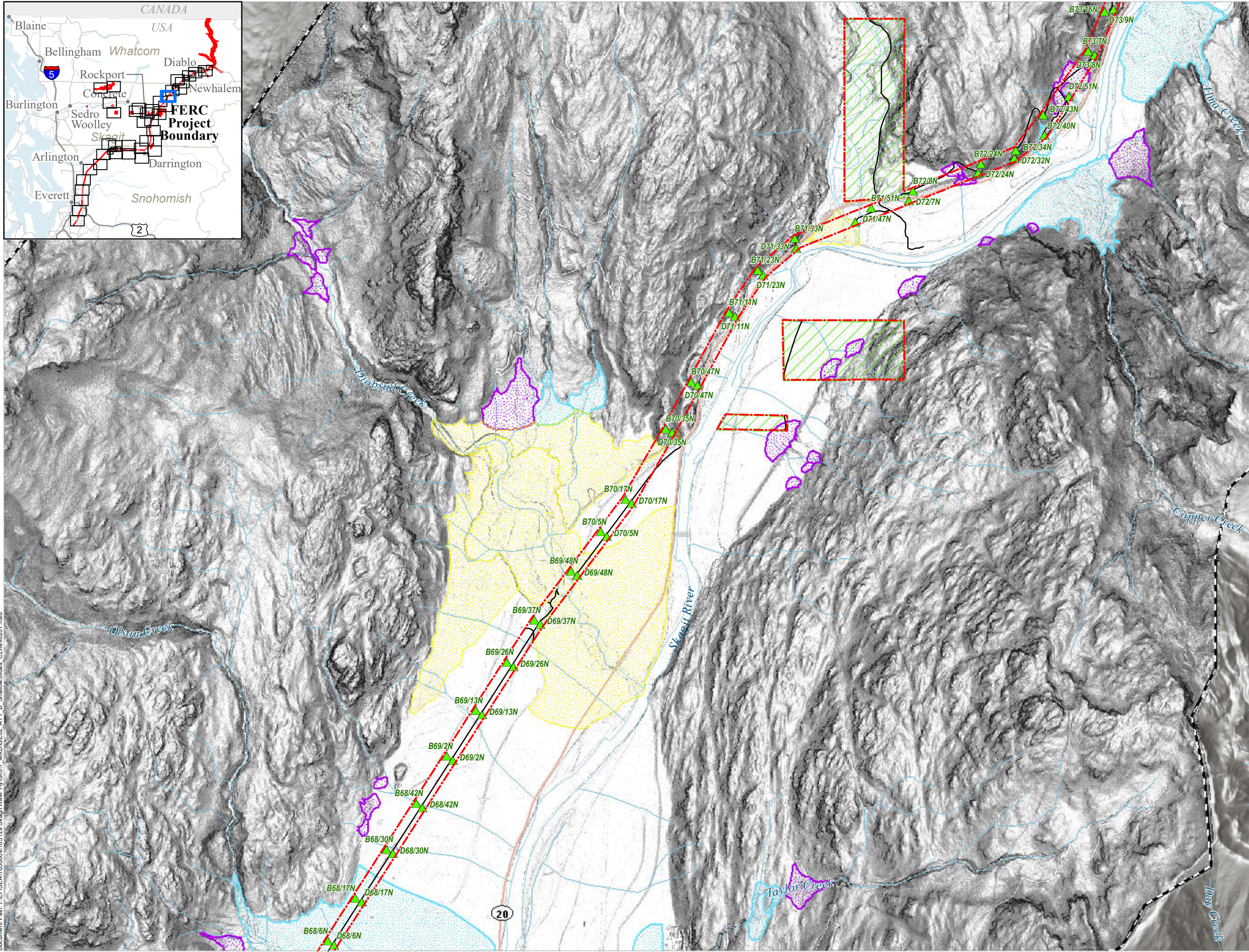
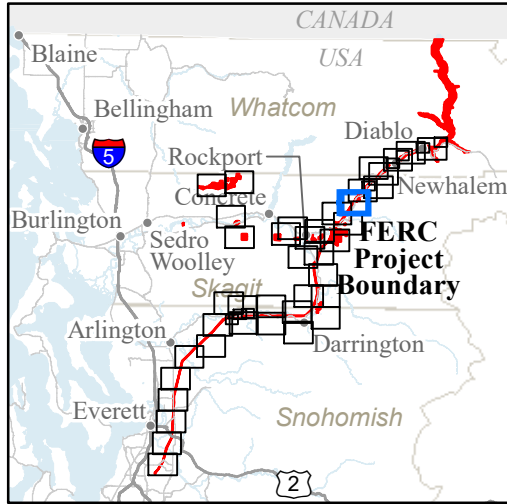
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- Fan Deposits**
 - Debris Flood
 - Debris Flow
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 - Low
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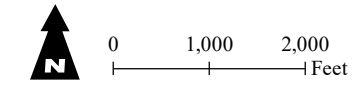
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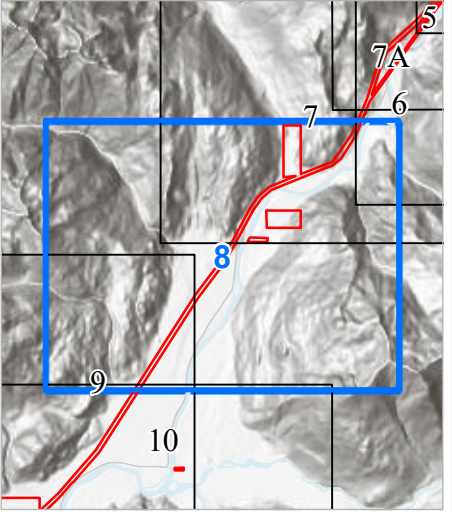
- Alluvial
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- Debris Flow

Shallow Landslide Susceptibility

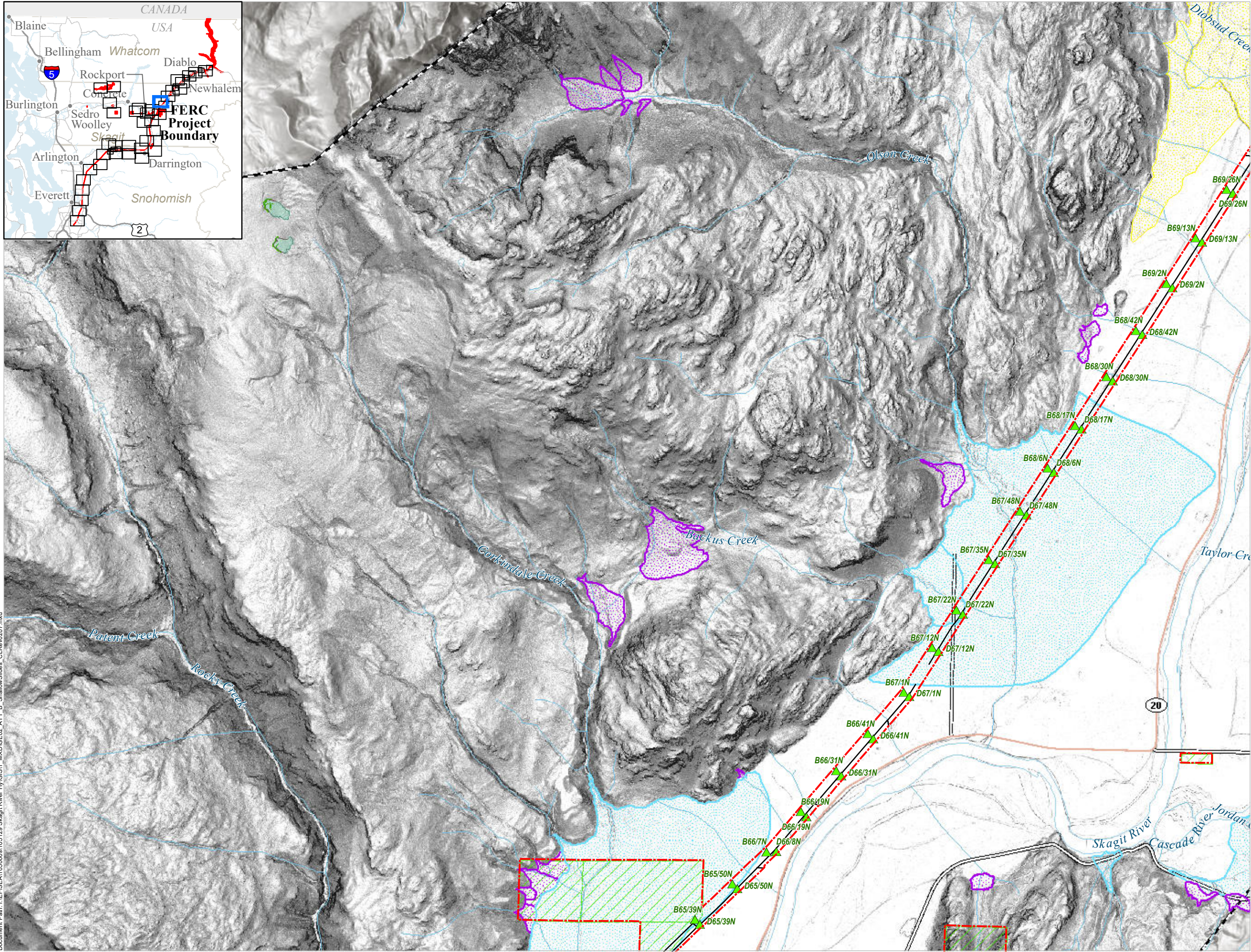
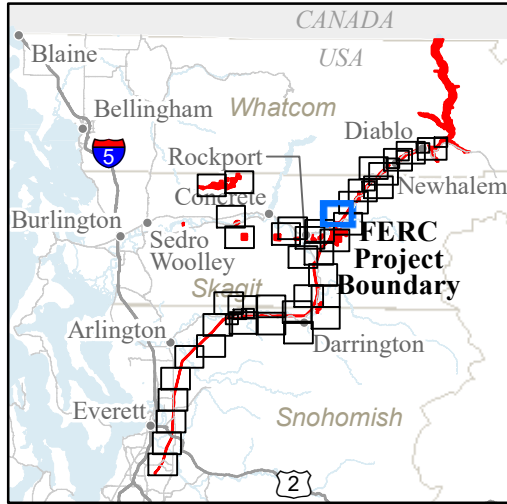
- Low
- Moderate
- High



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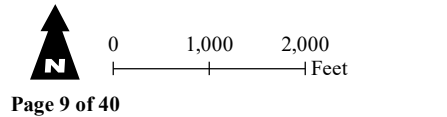
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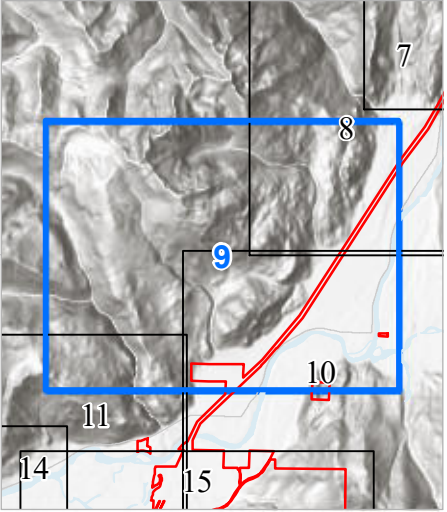
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Shallow Landslide Susceptibility

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- Moderate
- High



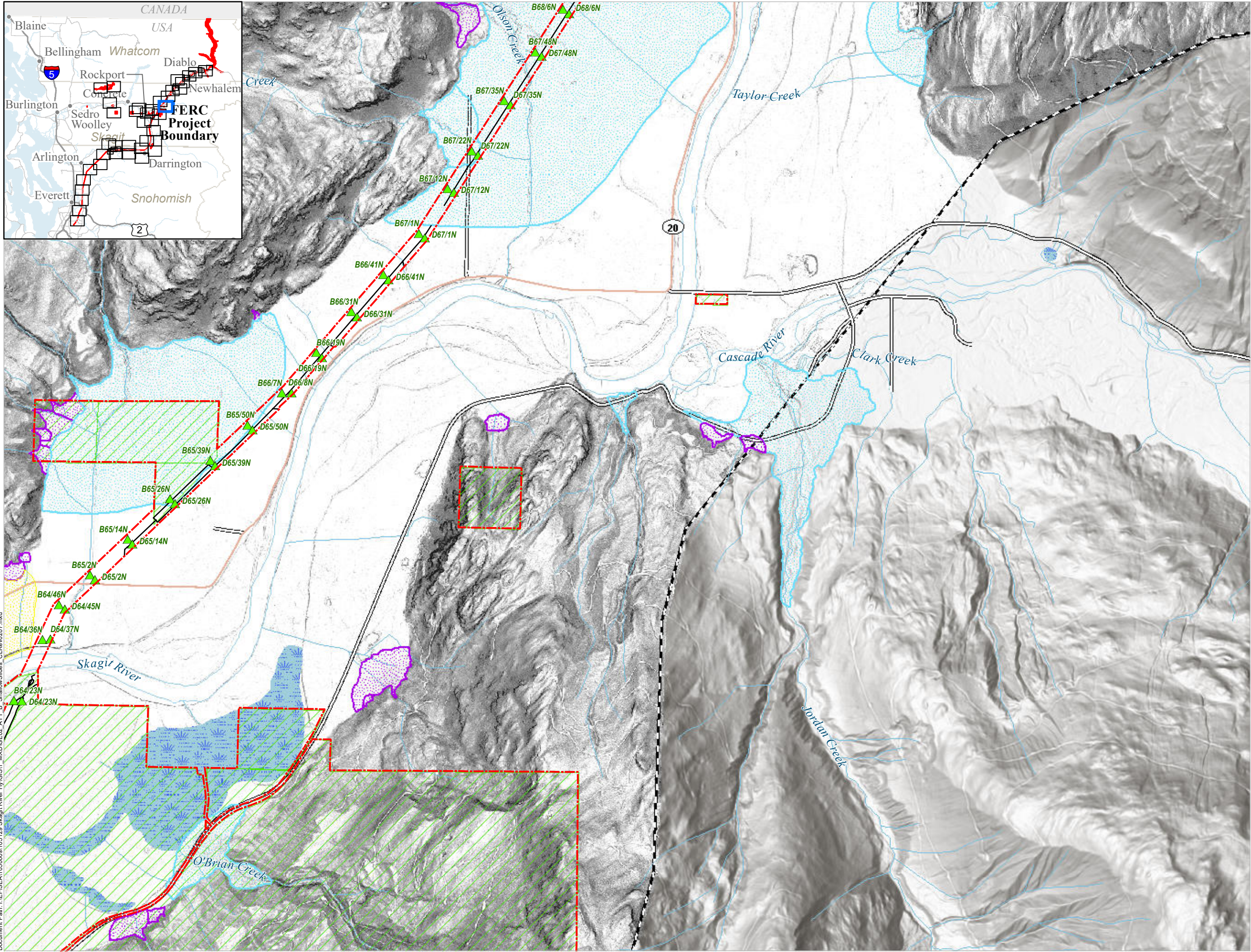
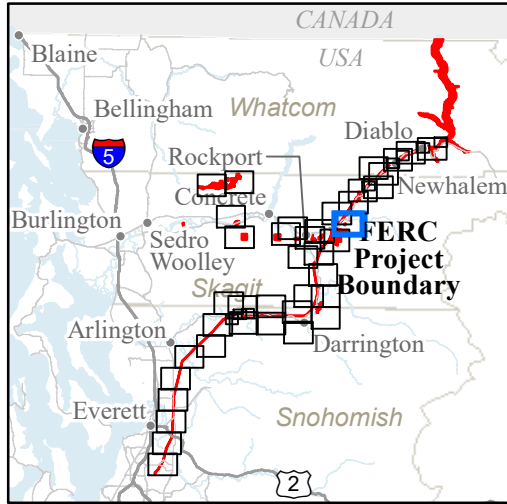
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Shallow Landslide Susceptibility

- Low
- Moderate
- High

0 1,000 2,000 Feet

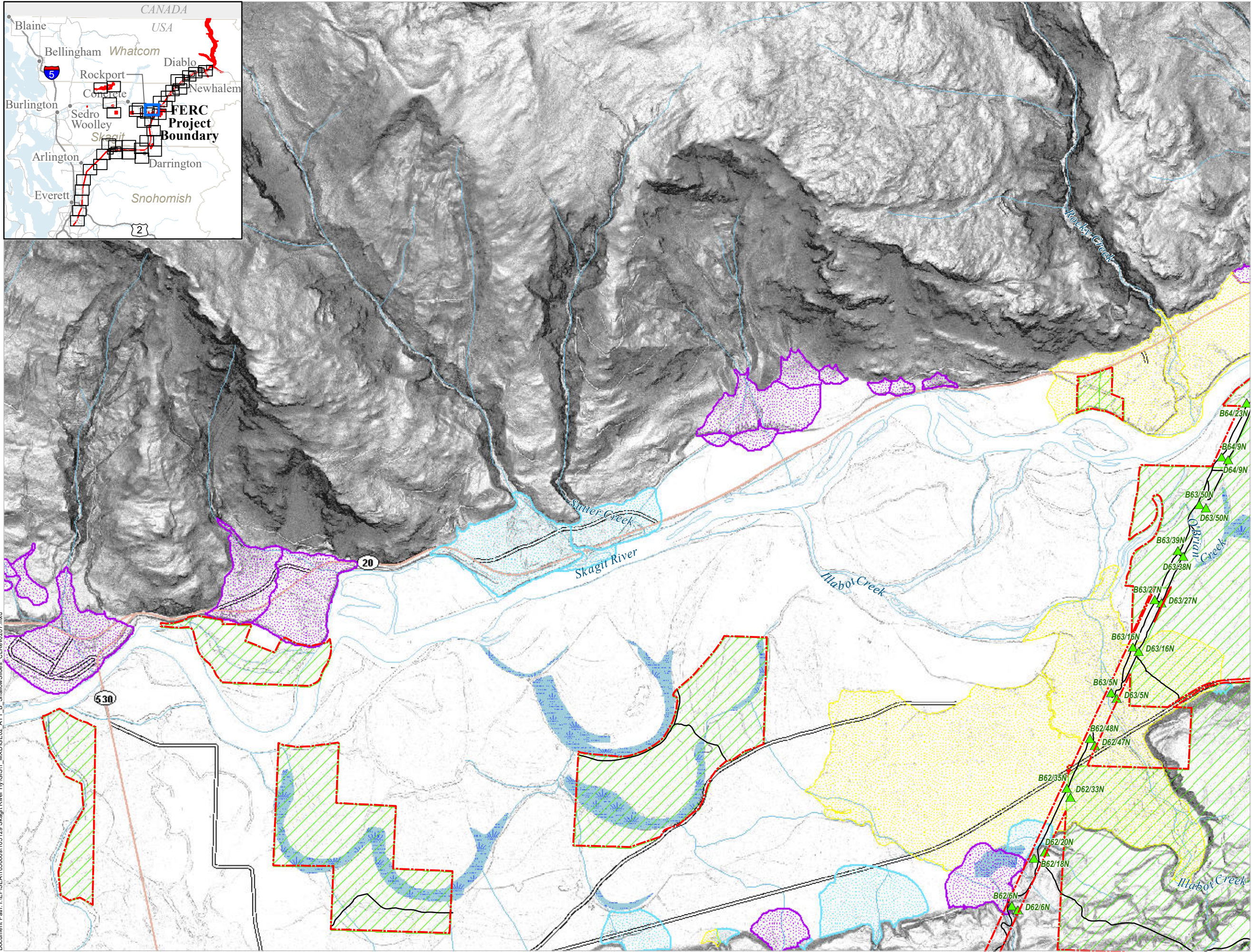
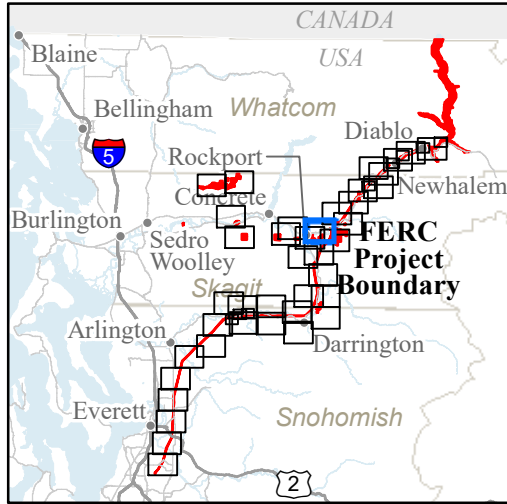
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- City Light Mitigation Parcels

Study Routes

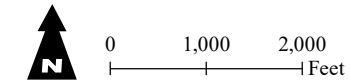
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Fan Deposits

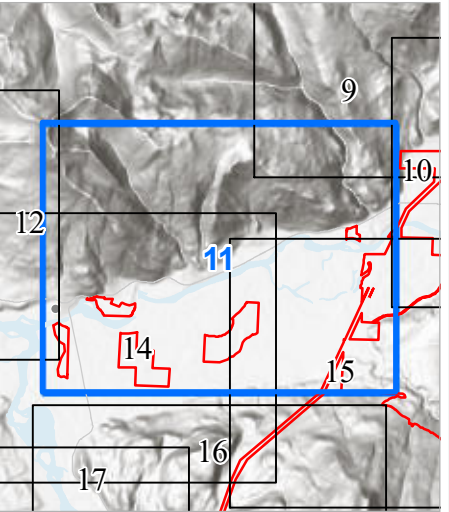
- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



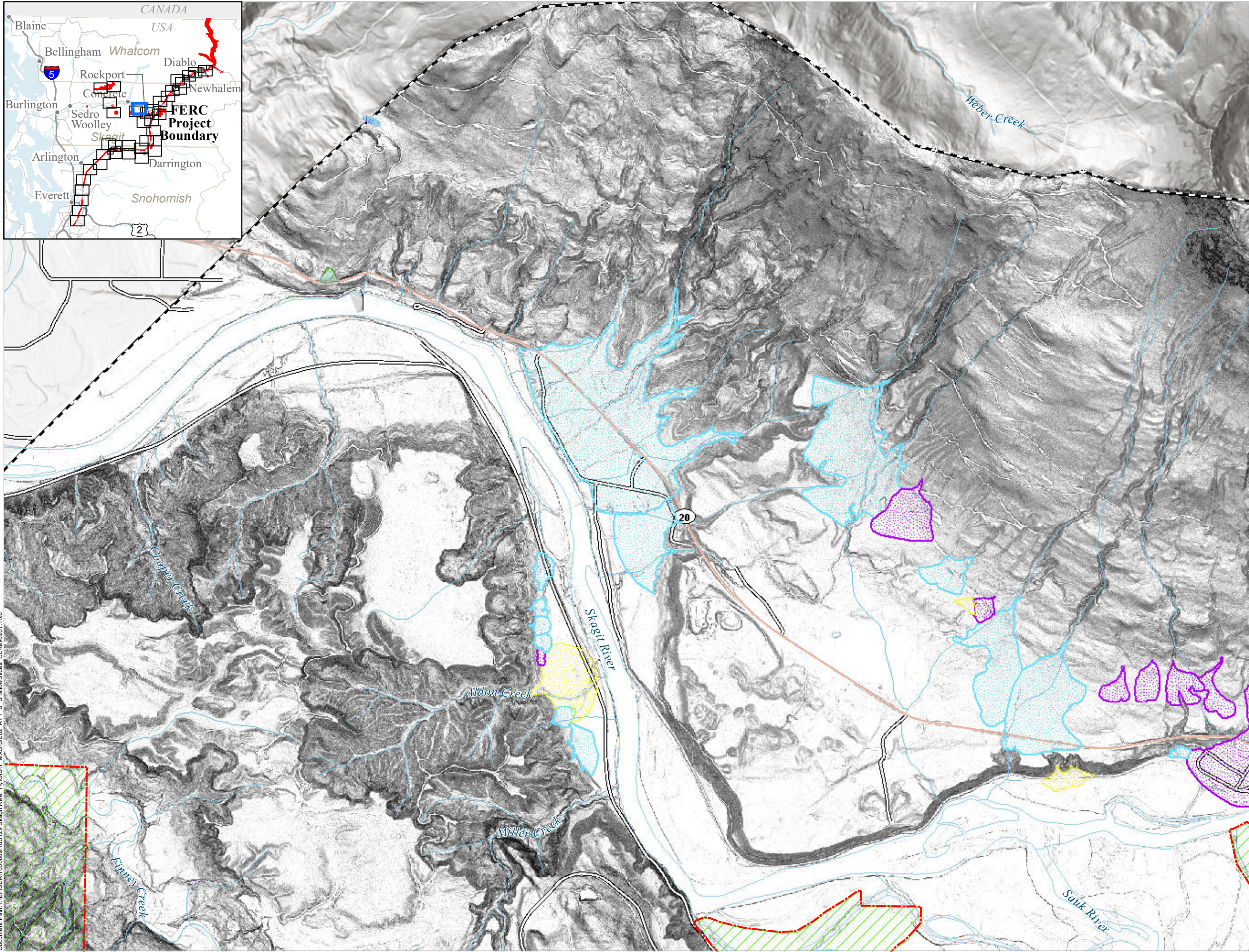
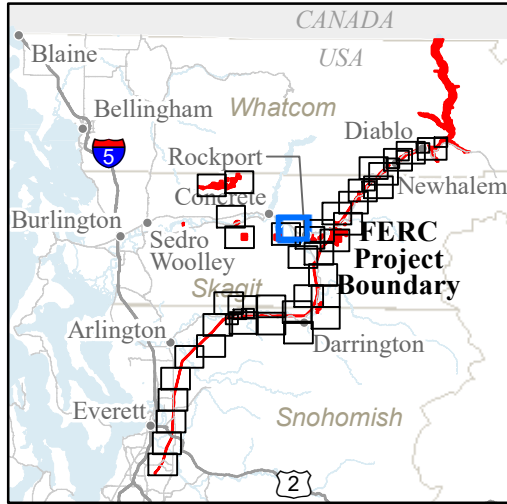
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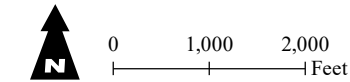
Seattle City Light

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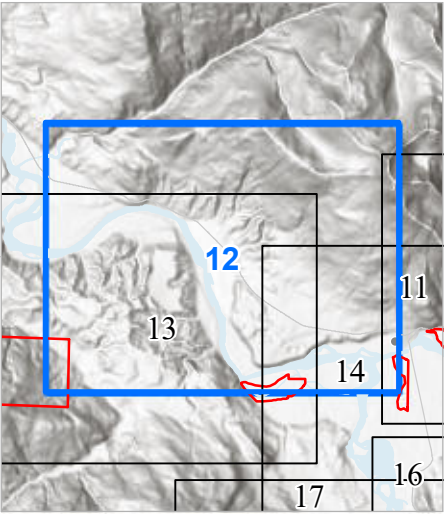
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 - Landslide Scarps
 - Shallow Landslide Head Scarps and Flanks
 - Shallow Landslide Deposits
 - Fan Deposits**
 - Alluvial
 - Debris Flood
 - Debris Flow
 - Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High



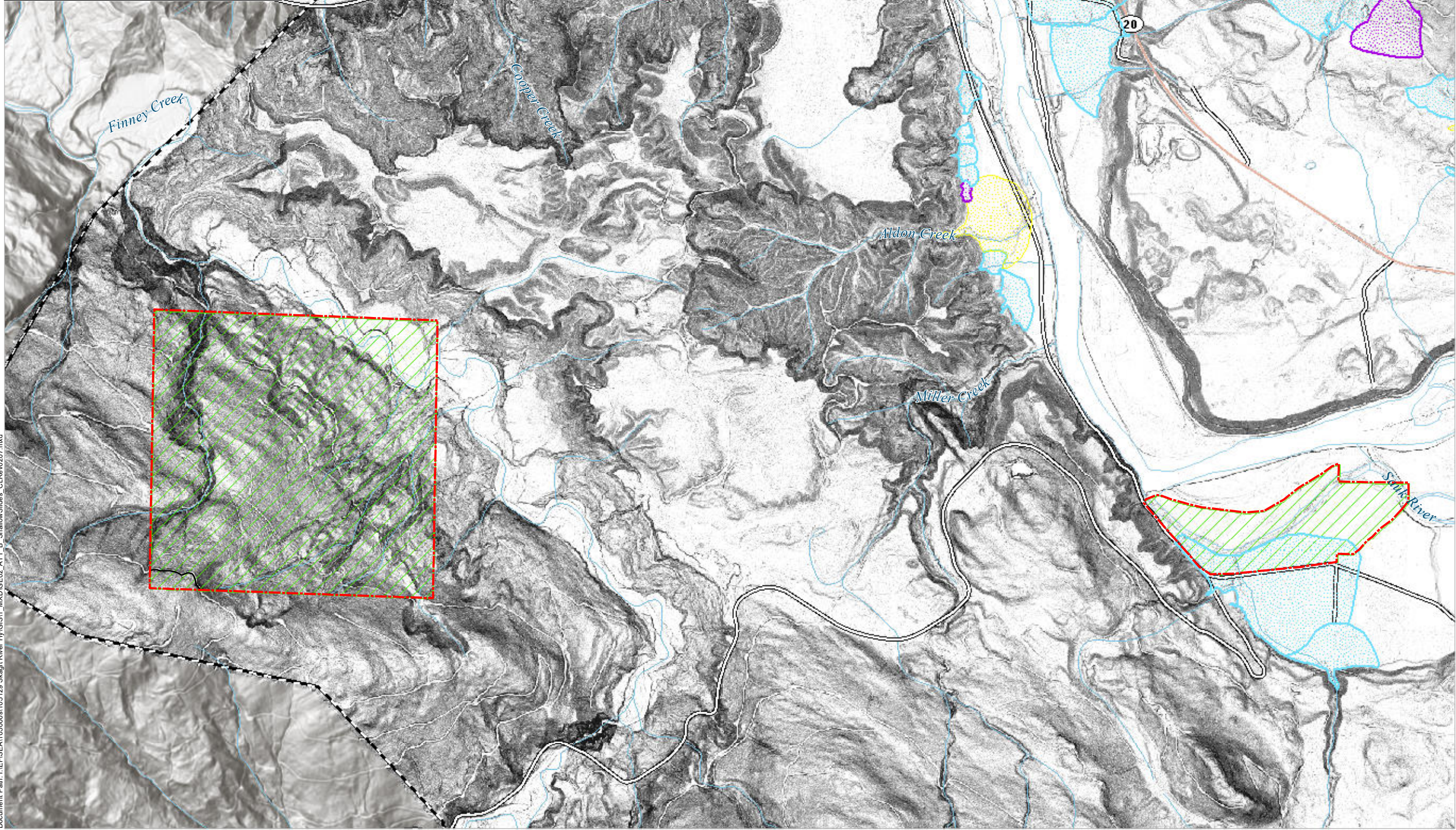
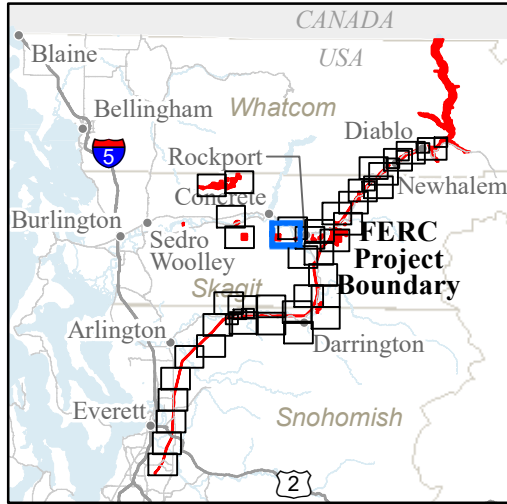
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Seattle City Light

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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

FERC Project Boundary

City Light Mitigation Parcels

Study Routes

Road

Mass Wasting Study Boundary

Landslide Scarps

Shallow Landslide Head Scarps and Flanks

Shallow Landslide Deposits

Fan Deposits

Alluvial

Debris Flood

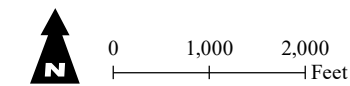
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Shallow Landslide Susceptibility

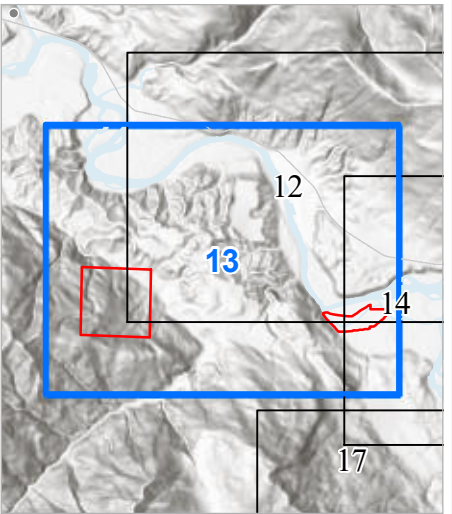
Low

Moderate

High



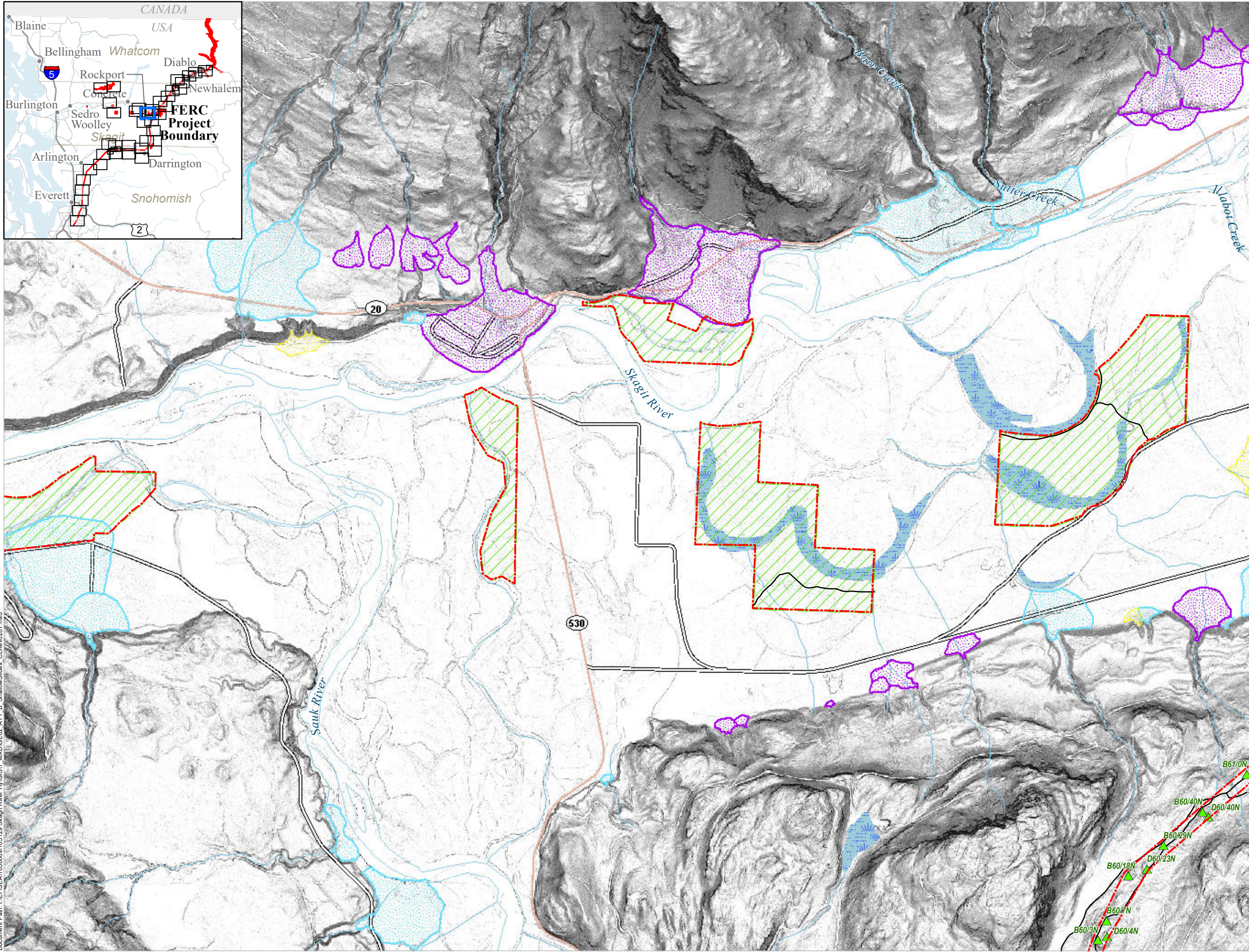
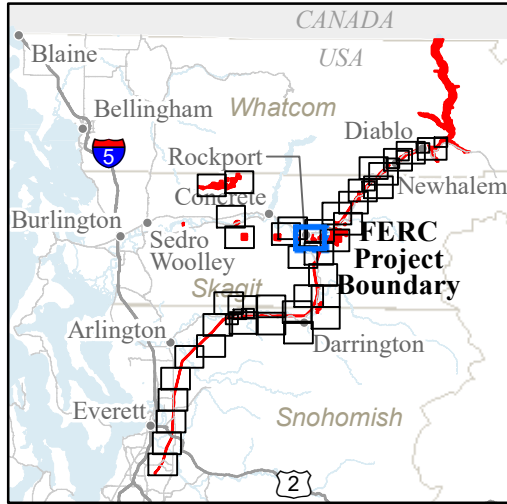
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Seattle City Light

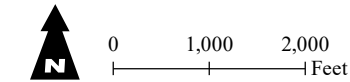
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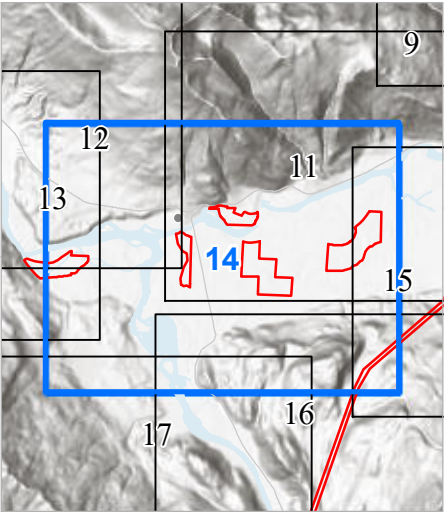


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Transmission Line Tower Locations
- City Light Mitigation Parcels
- Study Routes**
 - Road
- Mass Wasting Study Boundary**
- Fan Deposits**
 - Alluvial
 - Debris Flood
 - Debris Flow
- Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High



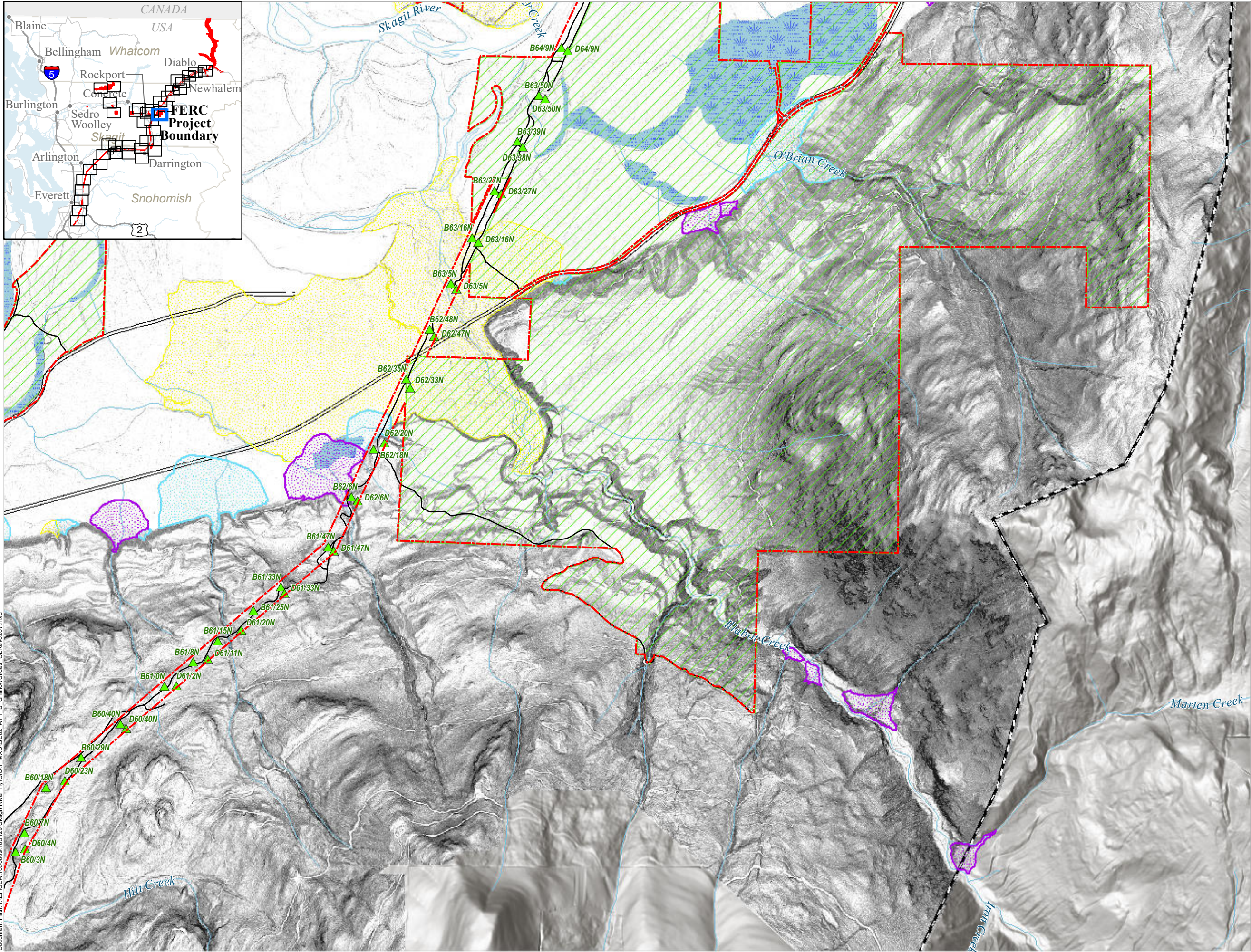
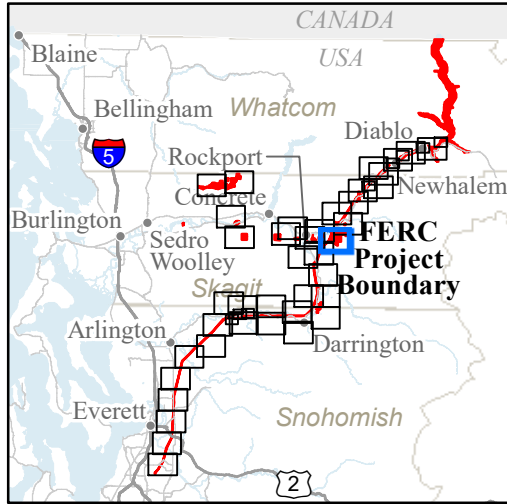
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Seattle City Light

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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Transmission Line Tower Locations
- City Light Mitigation Parcels

Study Routes

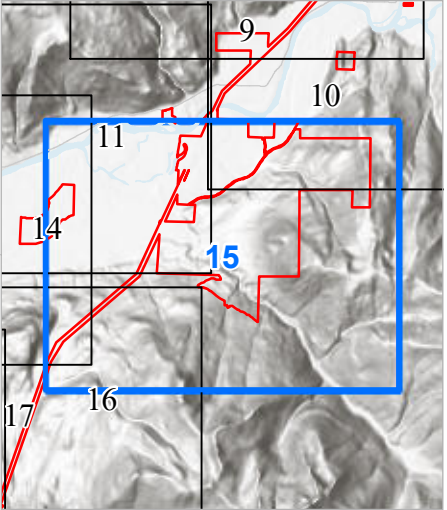
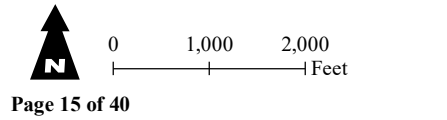
- Road
- Mass Wasting Study Boundary

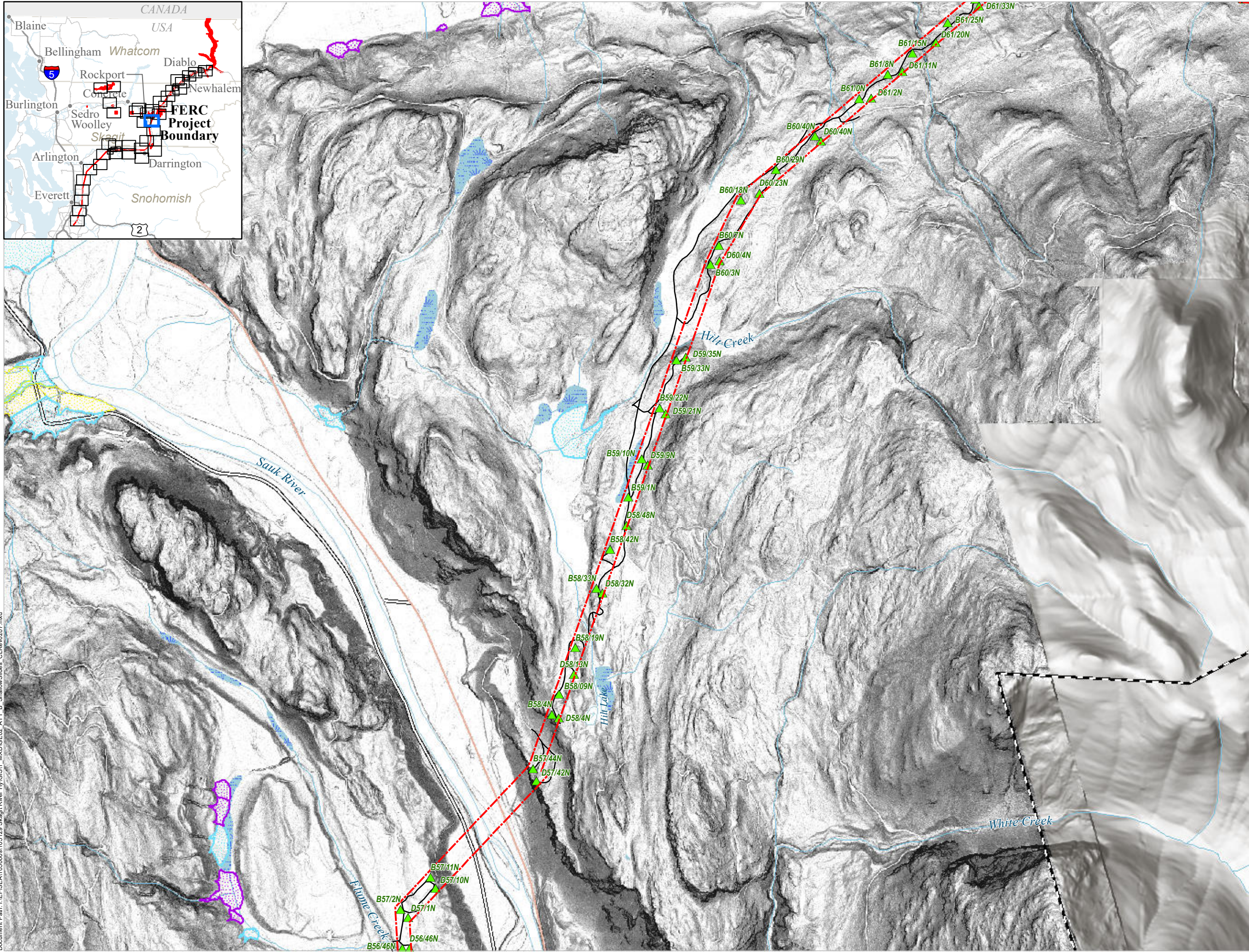
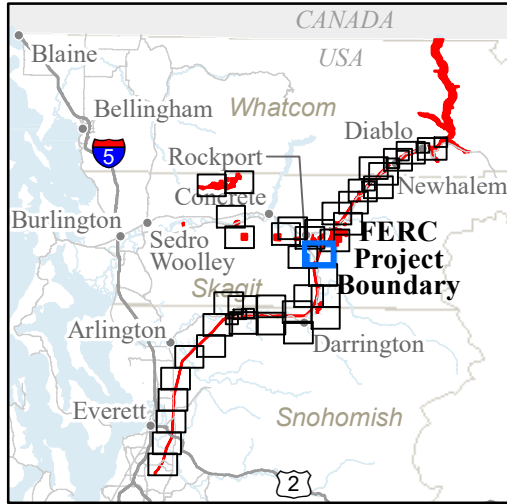
Fan Deposits

- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High





GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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- Mass Wasting Study Boundary

Fan Deposits

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- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
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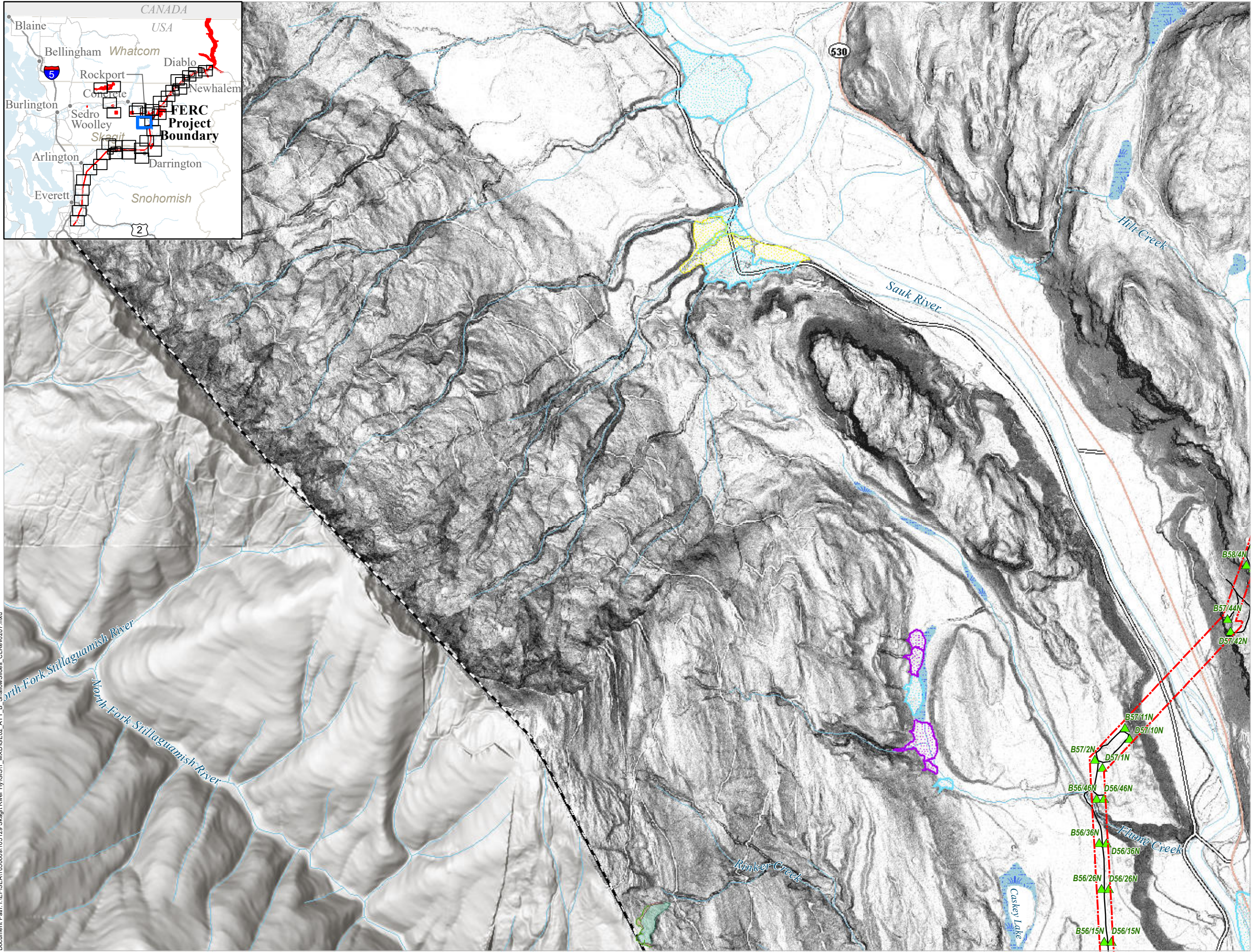
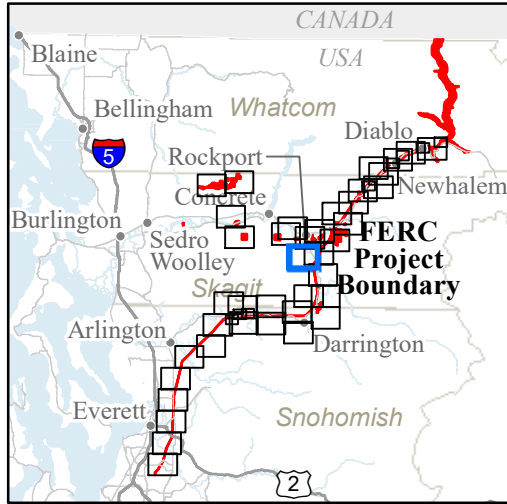
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Seattle City Light

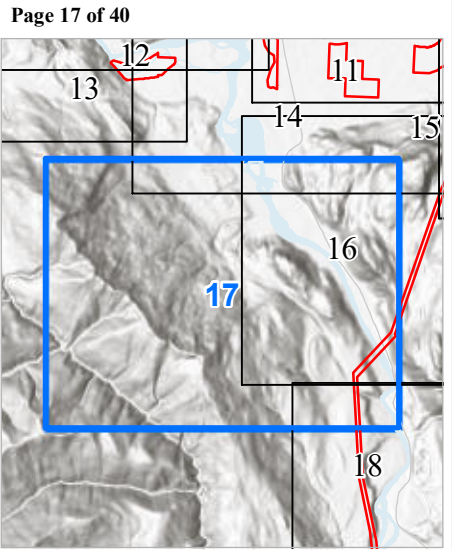
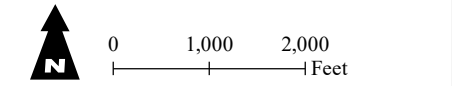
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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

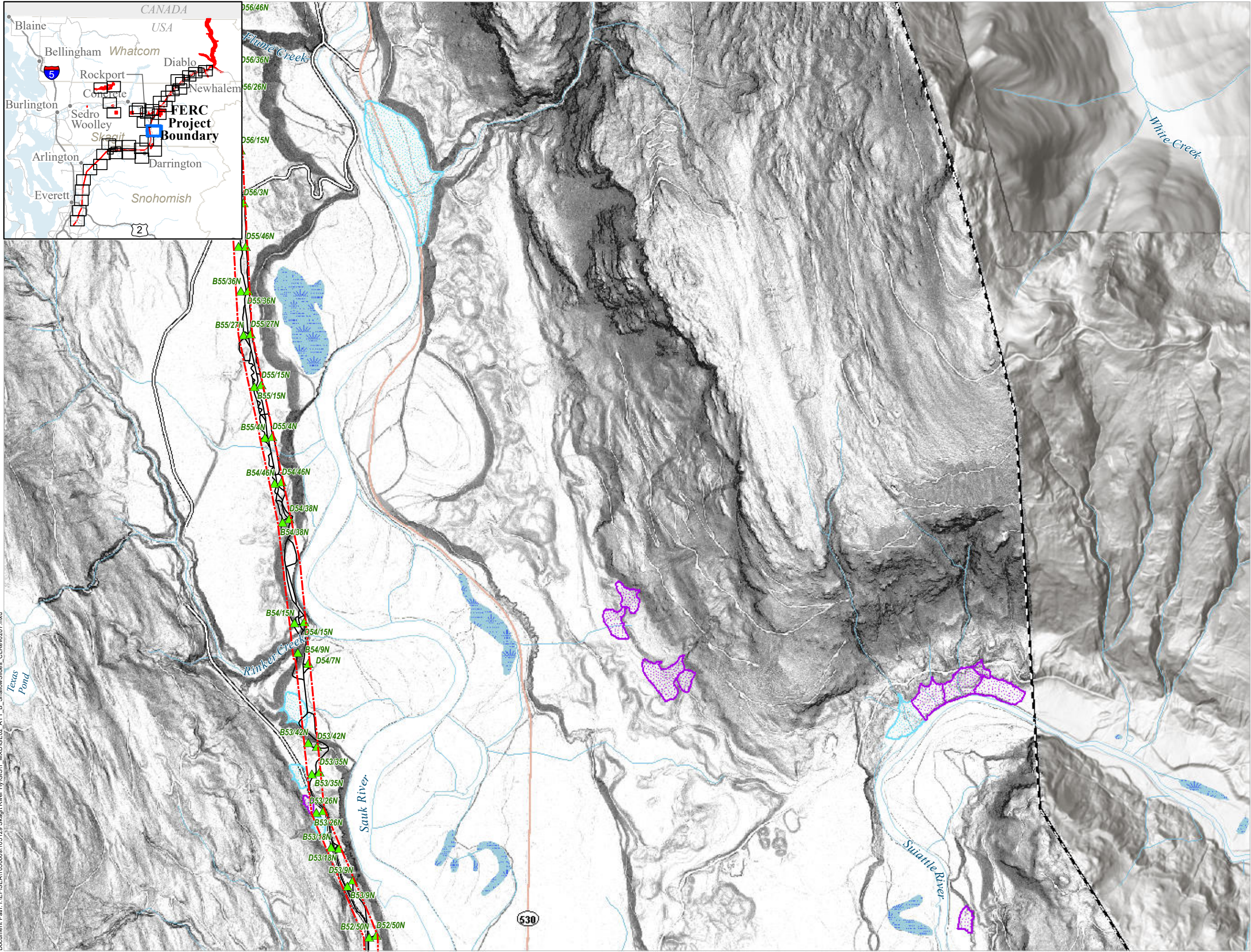
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 - Mass Wasting Study Boundary
 - Landslide Scarps
 - Shallow Landslide Head Scarps and Flanks
 - Shallow Landslide Deposits
- Fan Deposits**
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 - Debris Flood
 - Debris Flow
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Seattle City Light

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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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Study Routes

- Road
- Mass Wasting Study Boundary

Fan Deposits

- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

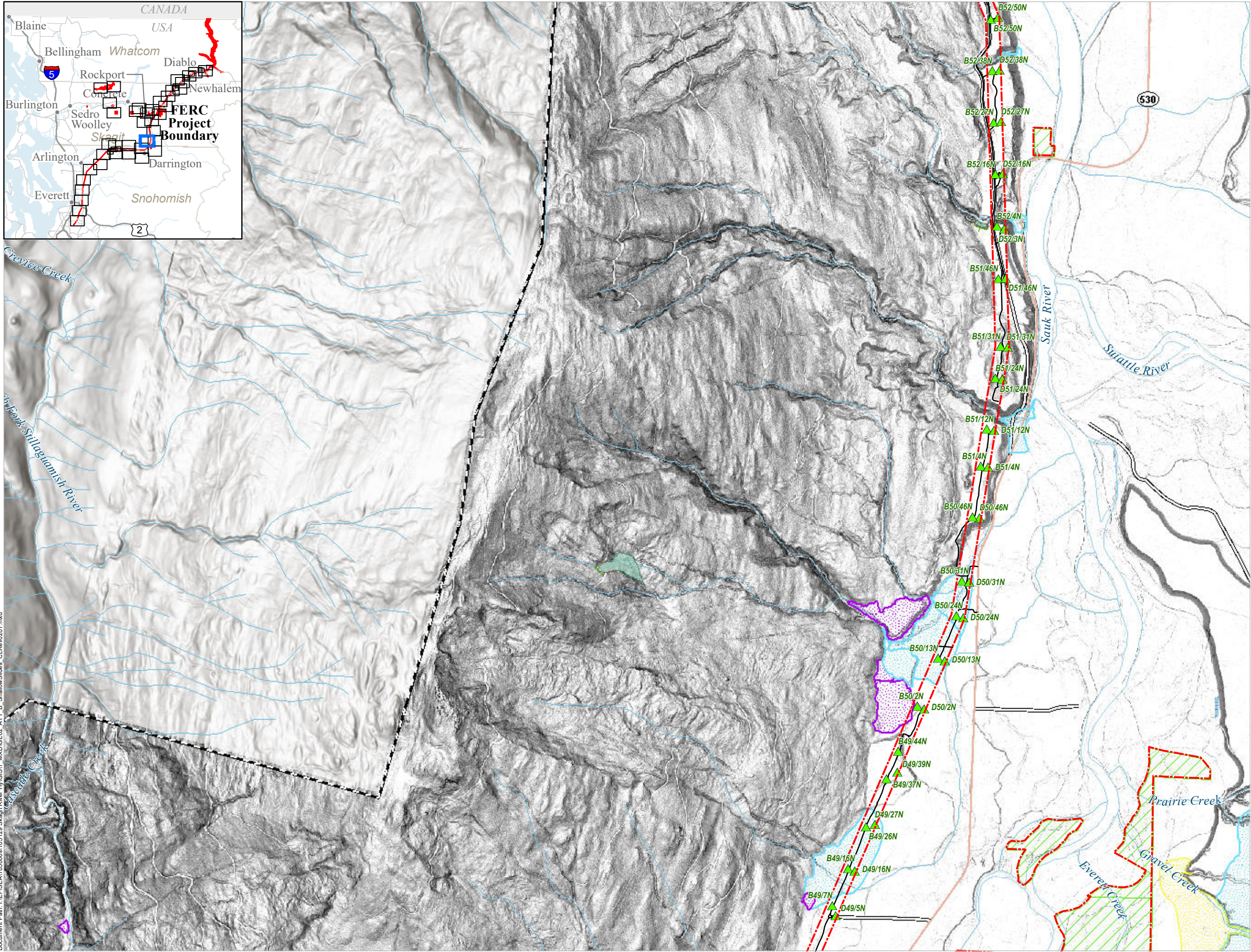
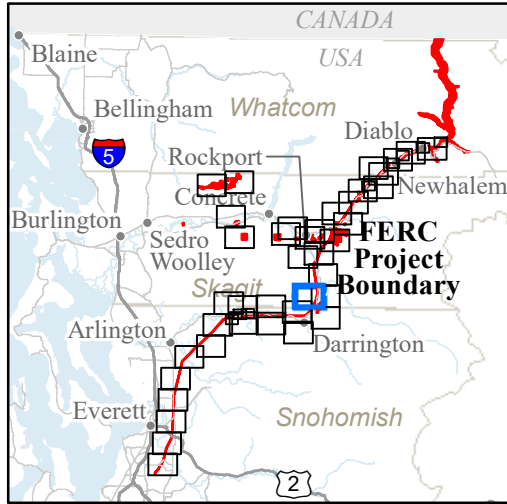
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- City Light Mitigation Parcels

Study Routes

- Road
- Mass Wasting Study Boundary
- Landslide Scarps
- Shallow Landslide Head Scarps and Flanks
- Shallow Landslide Deposits

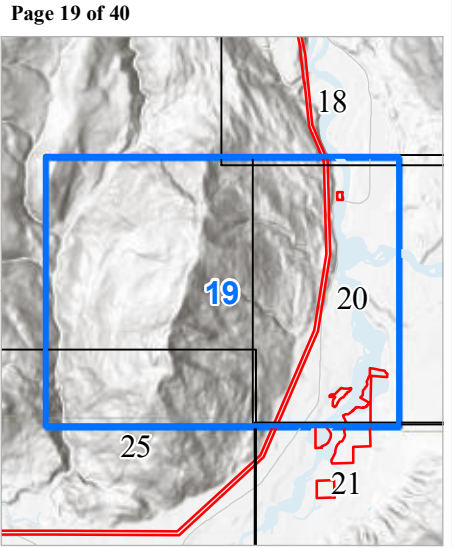
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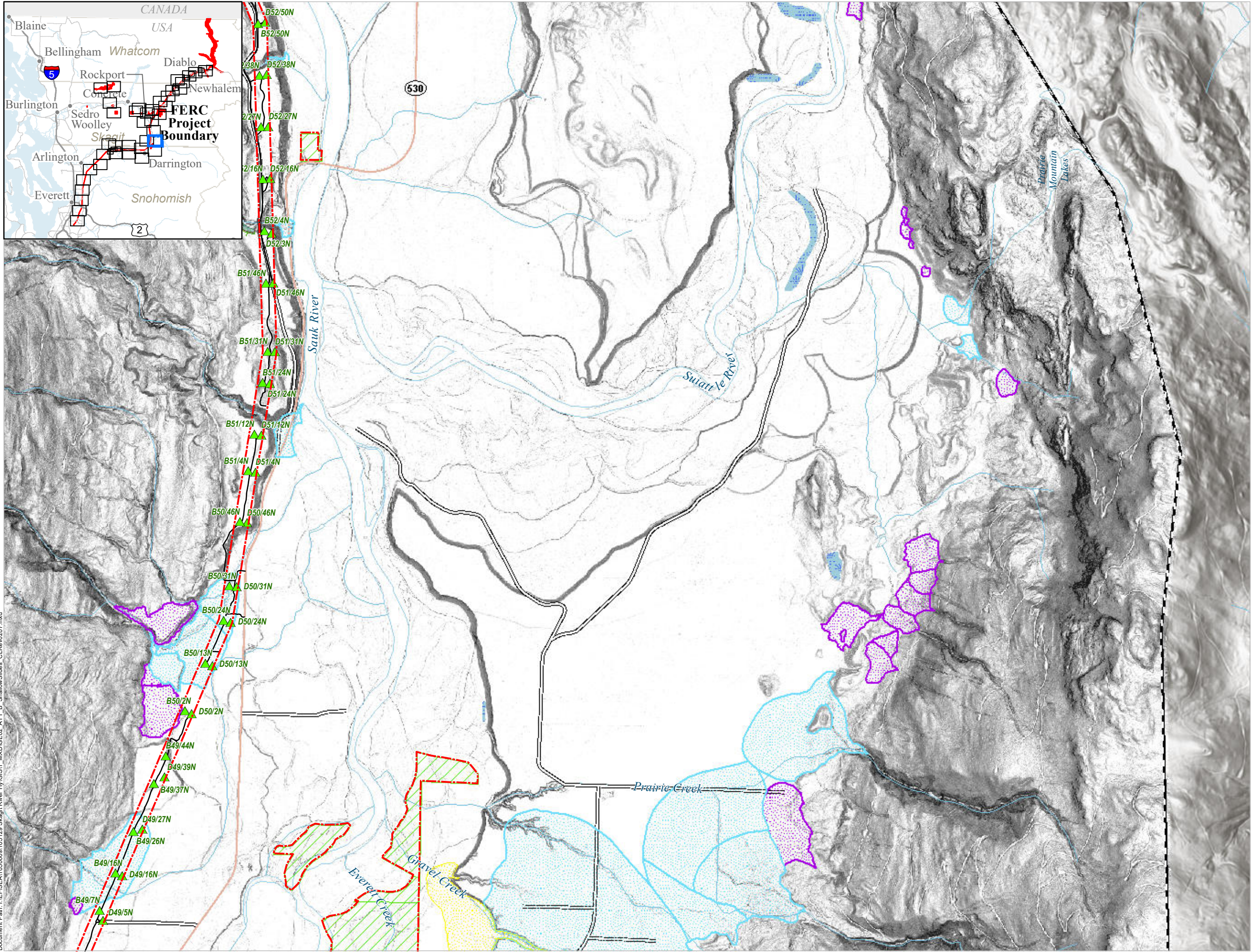
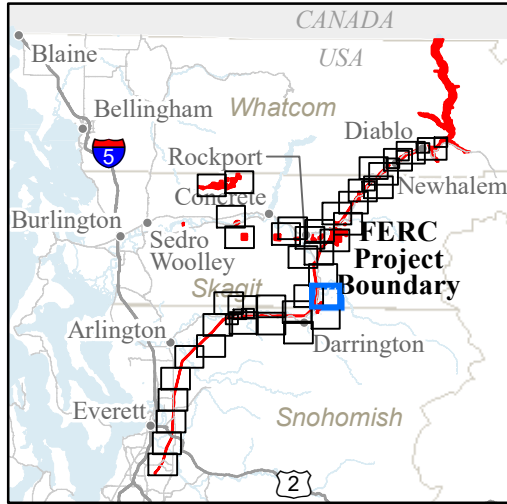
- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

0 1,000 2,000 Feet





GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Transmission Line Tower Locations
- City Light Mitigation Parcels

Study Routes

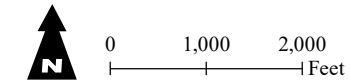
- Road
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- Shallow Landslide Deposits

Fan Deposits

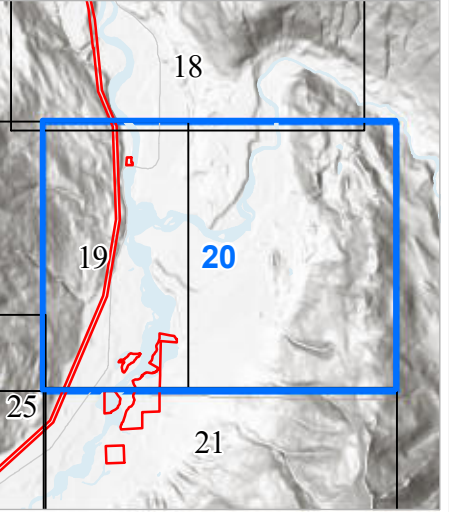
- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

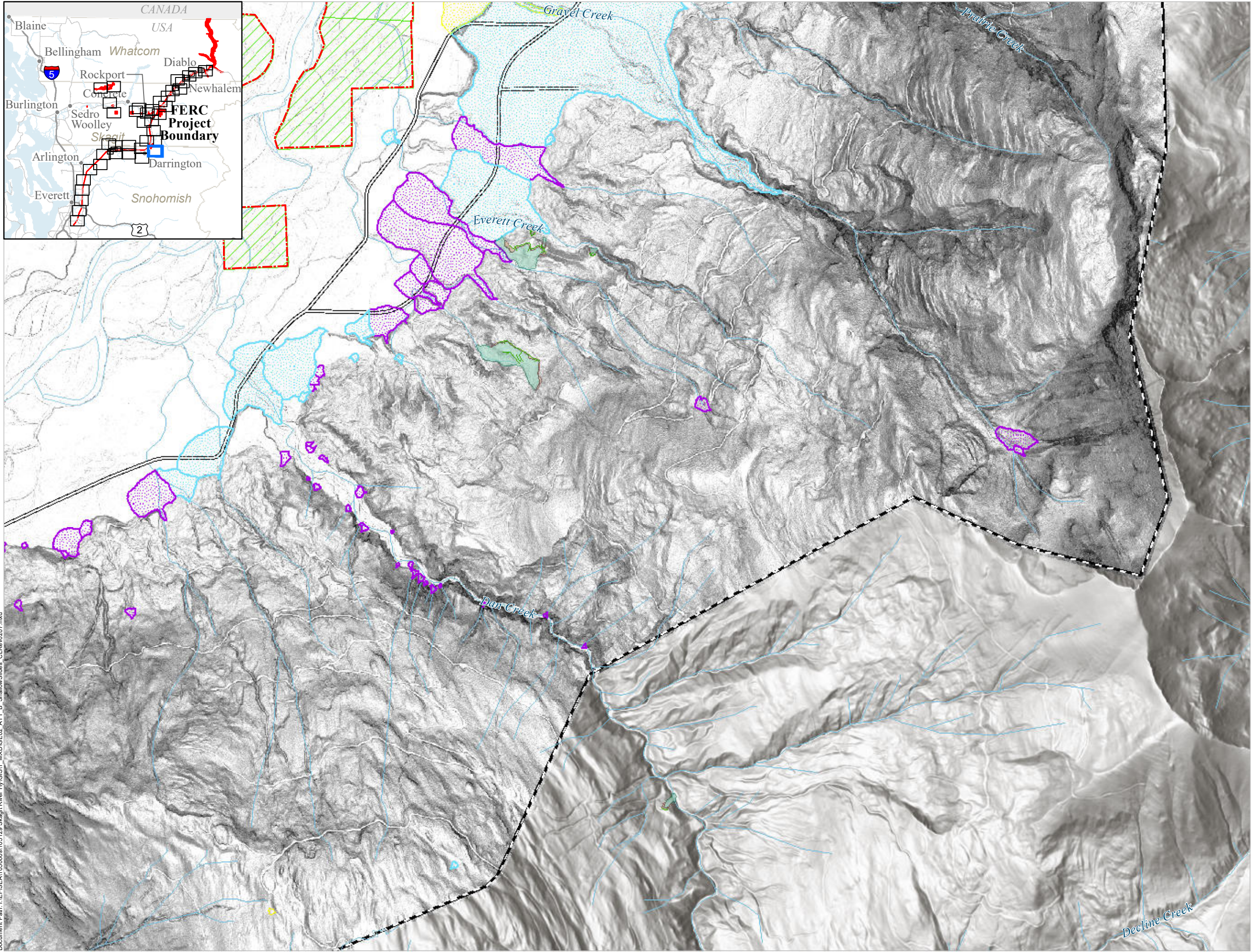
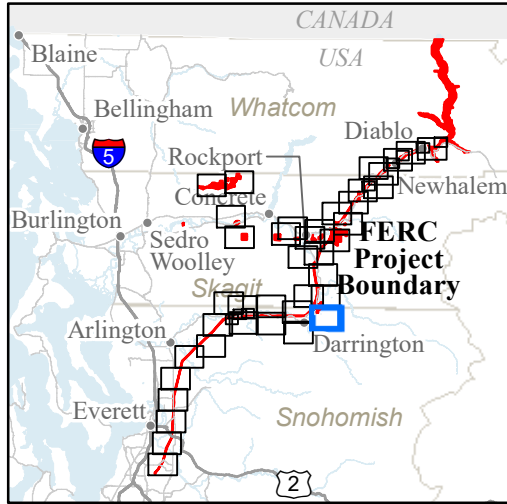


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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

FERC Project Boundary

City Light Transmission Line Tower Locations

City Light Mitigation Parcels

Study Routes

Road

Mass Wasting Study Boundary

Landslide Scarps

Shallow Landslide Head Scarps and Flanks

Shallow Landslide Deposits

Fan Deposits

Alluvial

Debris Flood

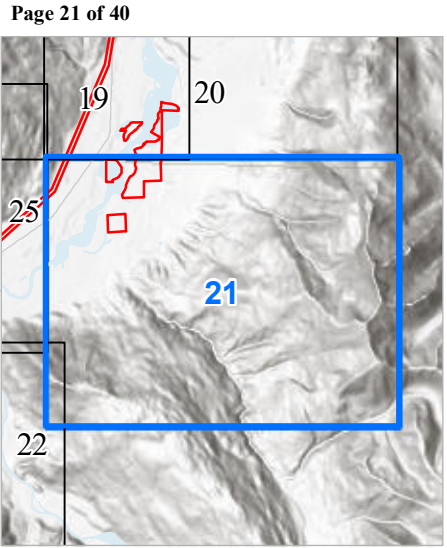
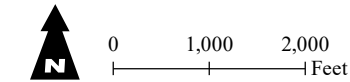
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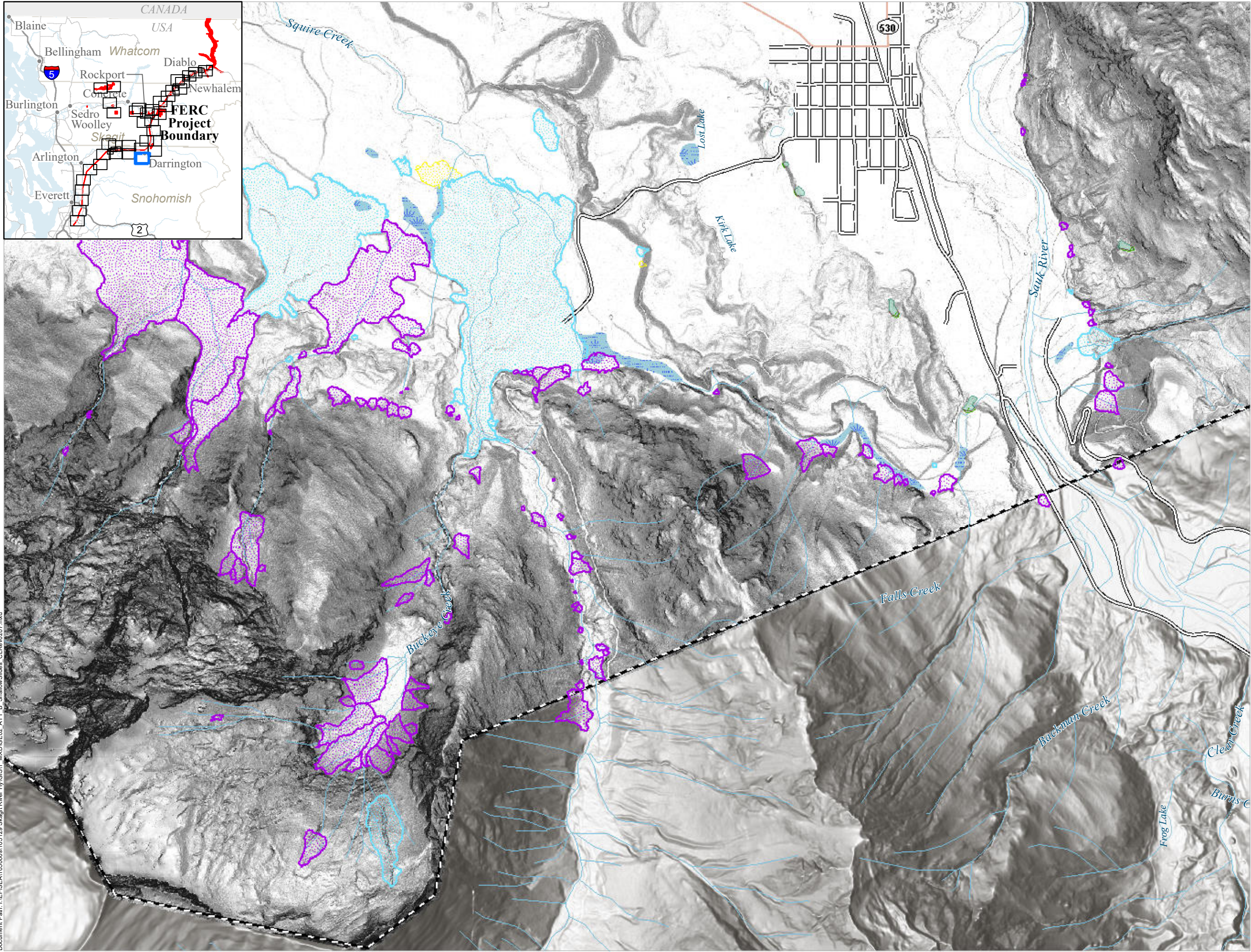
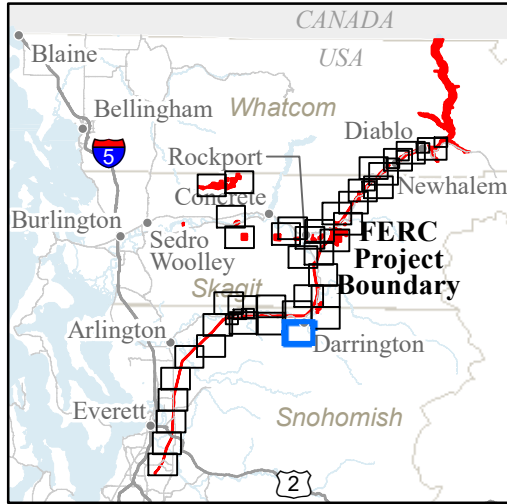
Shallow Landslide Susceptibility

Low

Moderate

High





GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

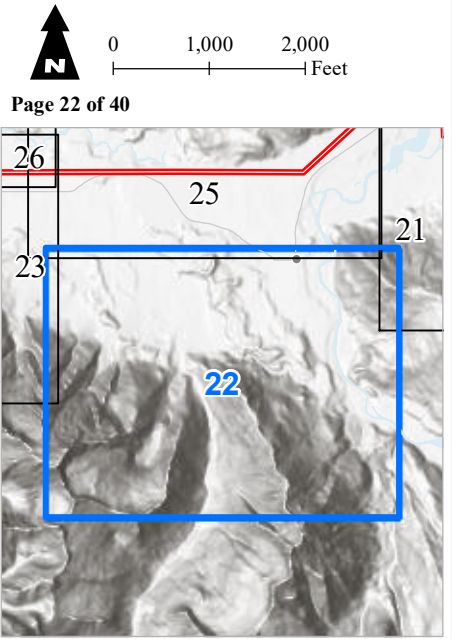
- Mass Wasting Study Boundary
- Landslide Scarps
- Shallow Landslide Head Scarps and Flanks
- Shallow Landslide Deposits

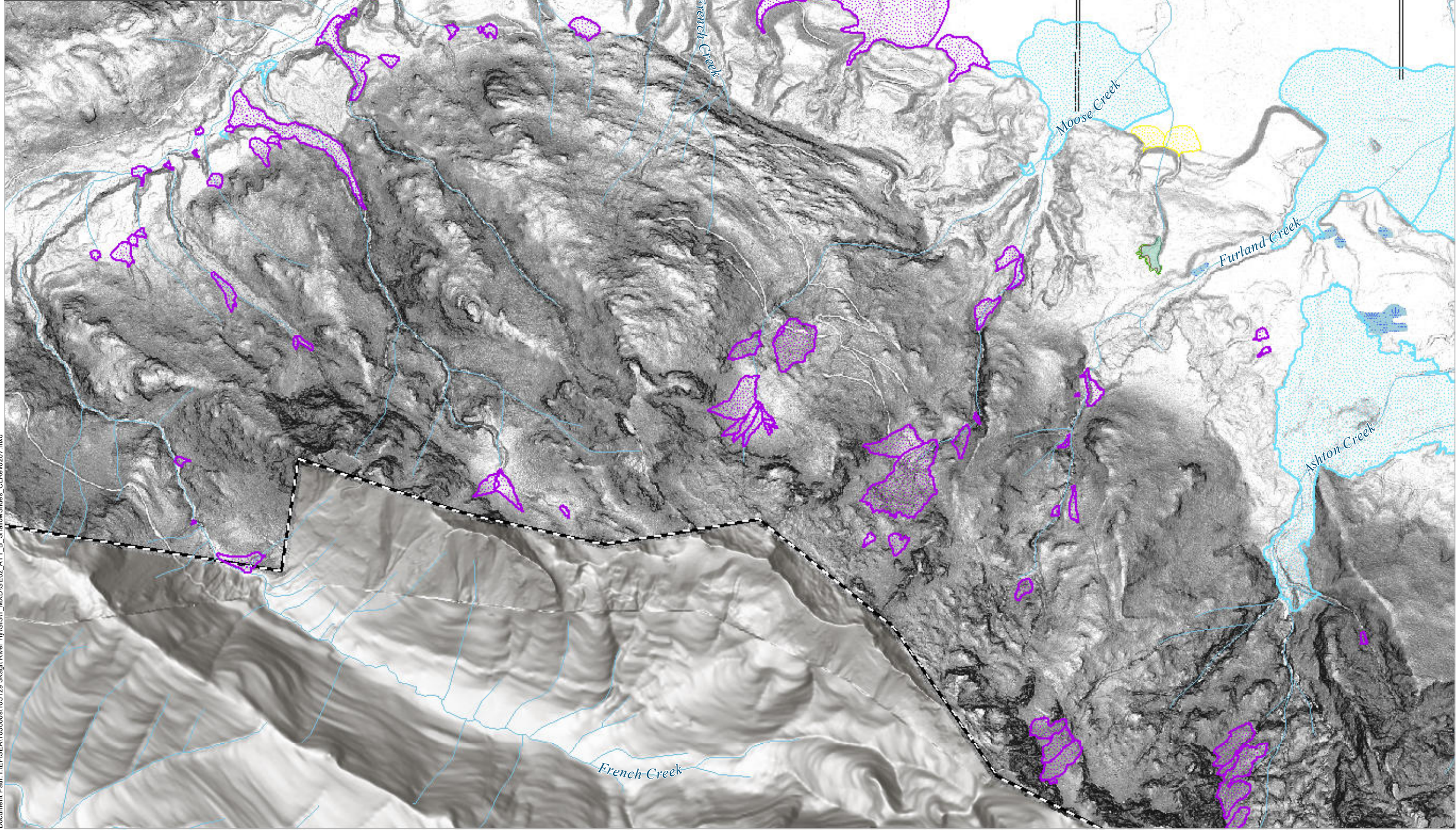
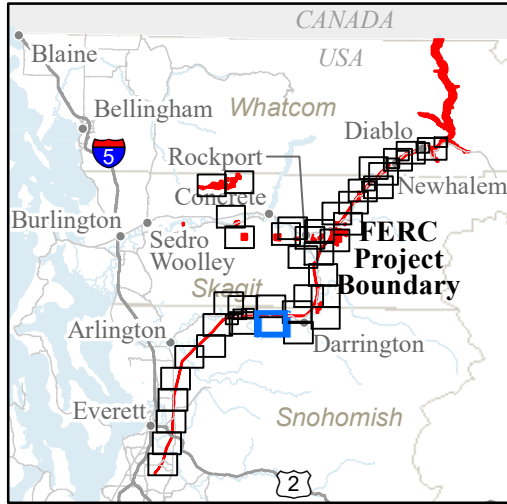
Fan Deposits

- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

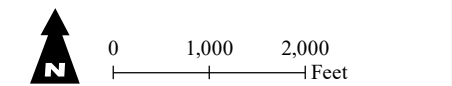
- Low
- Moderate
- High



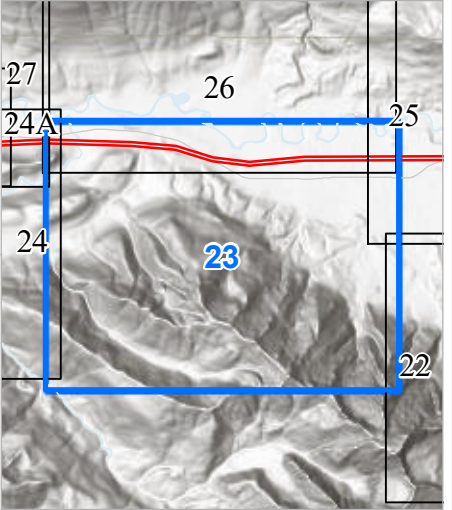


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Transmission Line Tower Locations
- Study Routes**
 - Road
 - Trail
 - Mass Wasting Study Boundary
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 - Shallow Landslide Deposits
- Fan Deposits**
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 - Debris Flood
 - Debris Flow
- Shallow Landslide Susceptibility**
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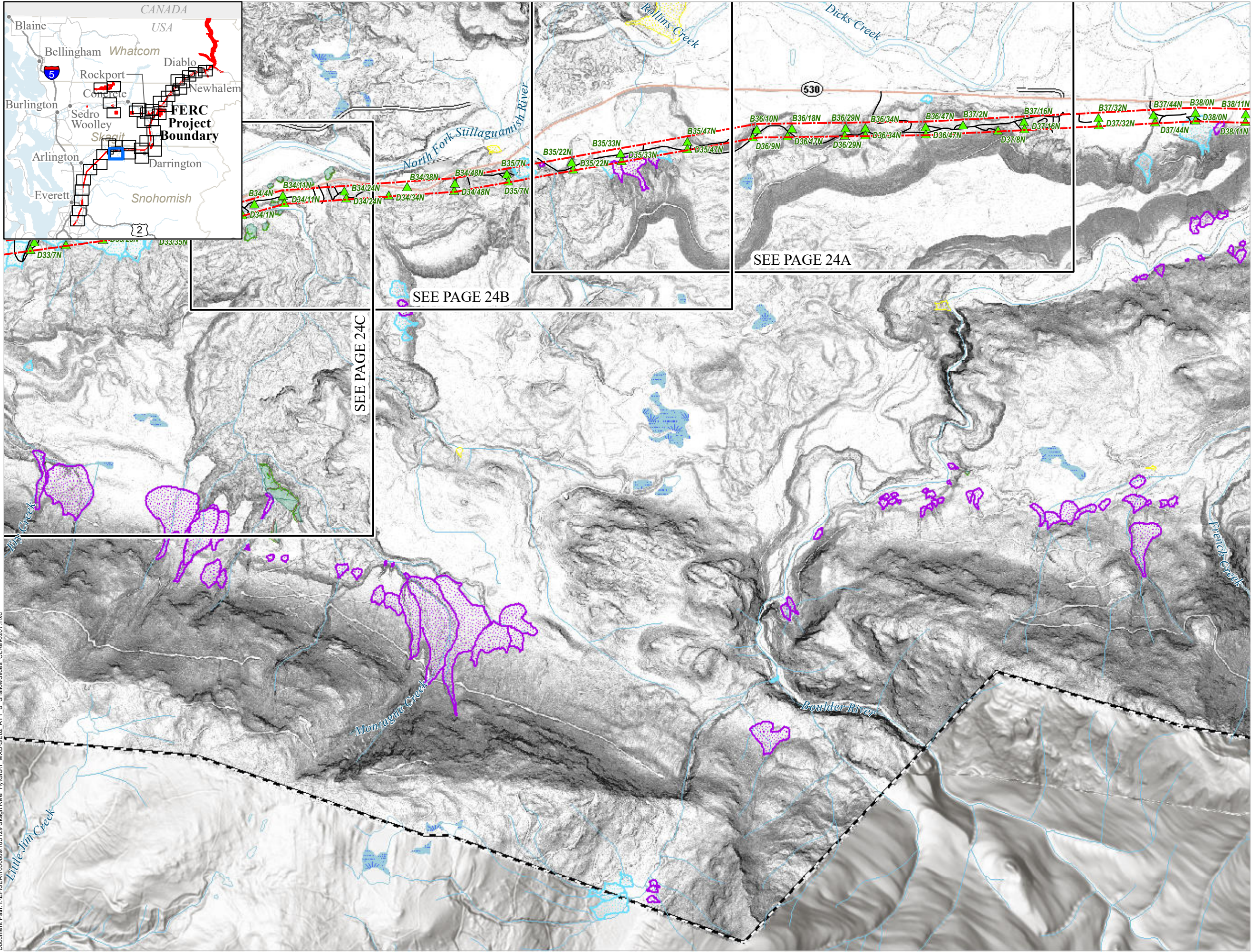
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Seattle City Light

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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

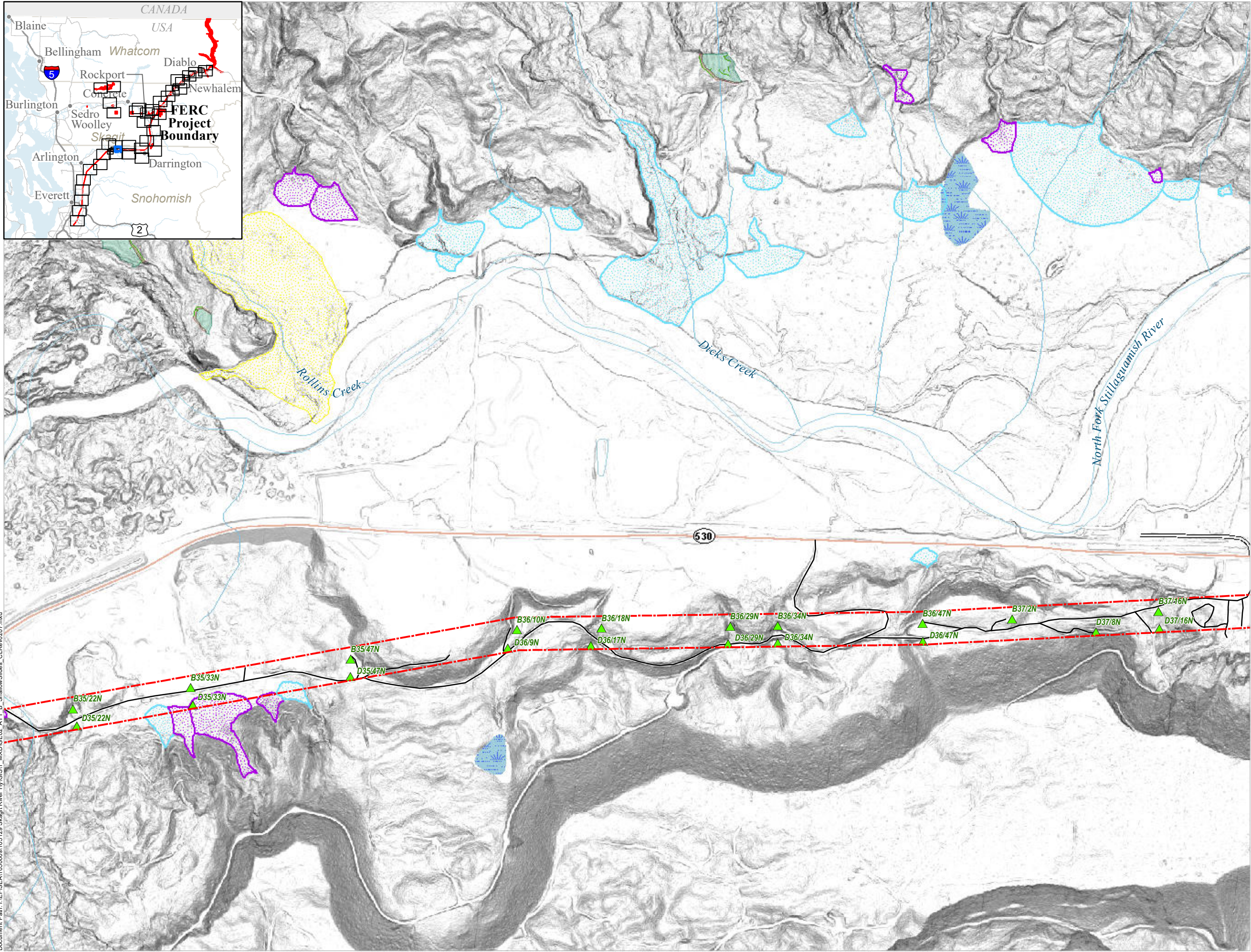
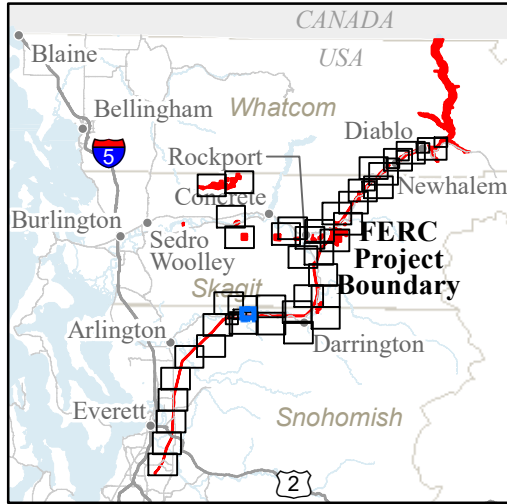
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 - Alluvial
 - Debris Flood
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- Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High

0 1,000 2,000 Feet

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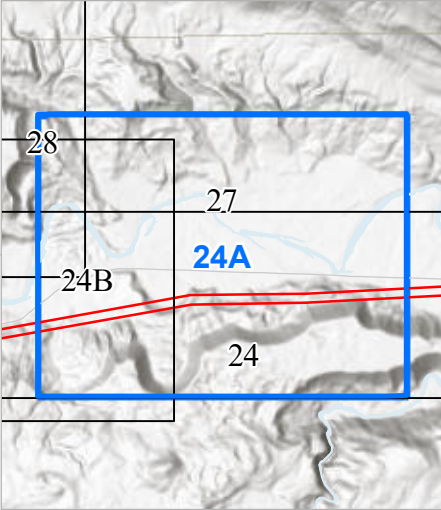
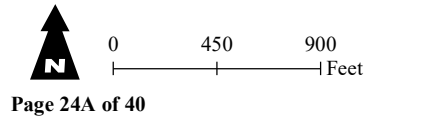
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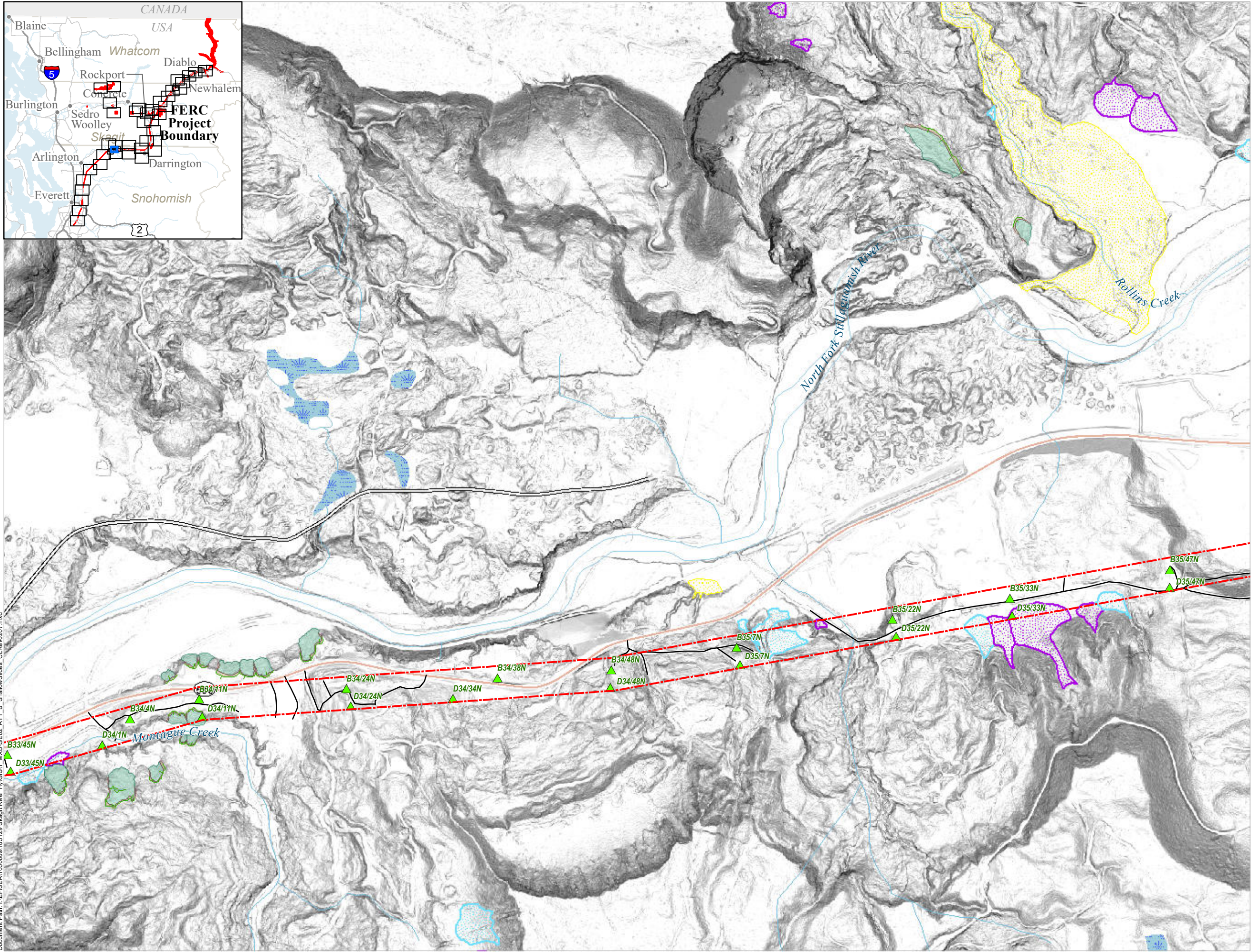
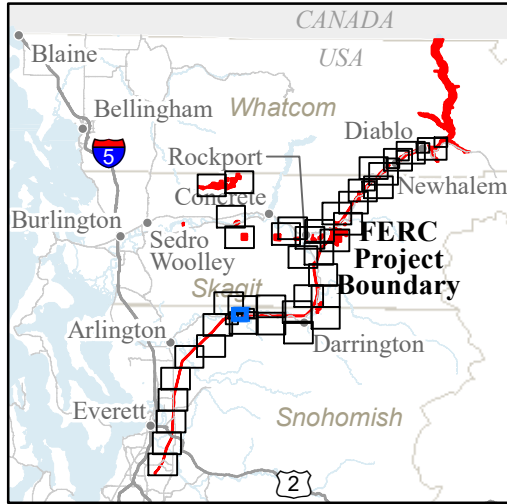
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Seattle City Light

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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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Landslide Scarps

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Shallow Landslide Deposits

Fan Deposits

Alluvial

Debris Flood

Debris Flow

Shallow Landslide Susceptibility

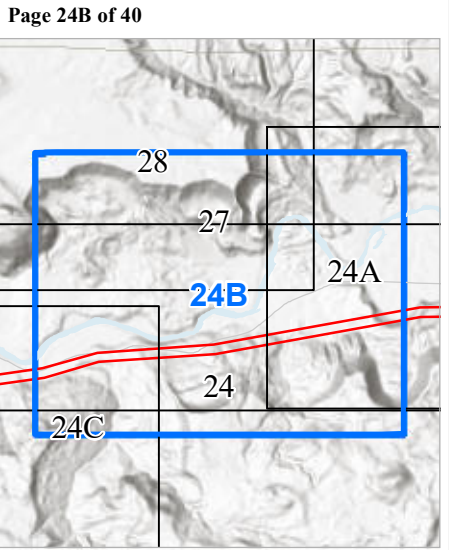
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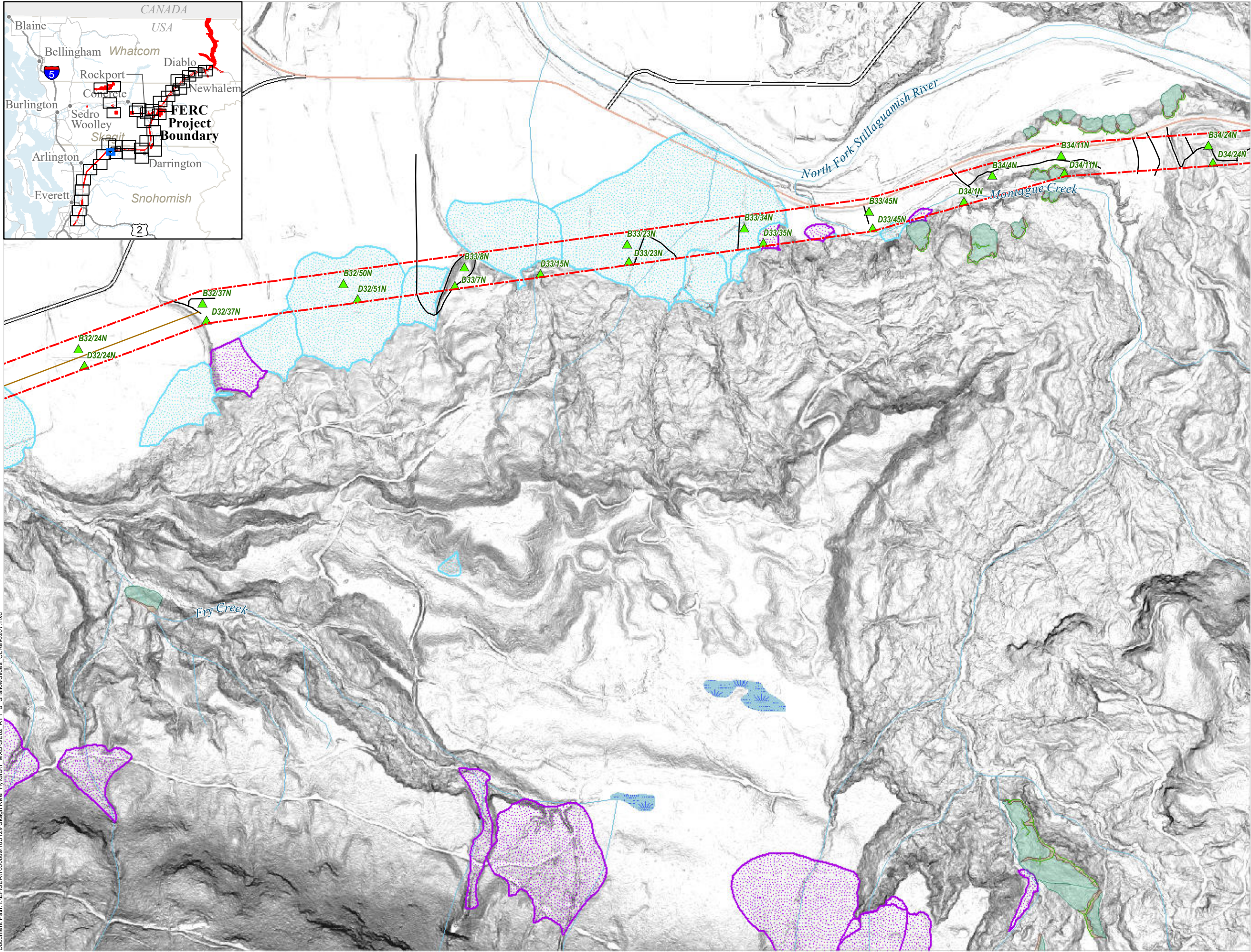
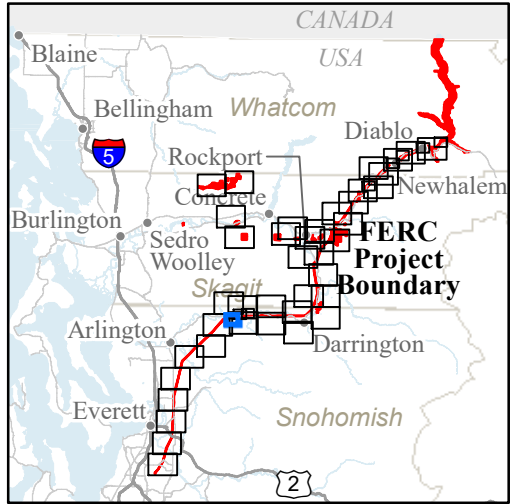
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High

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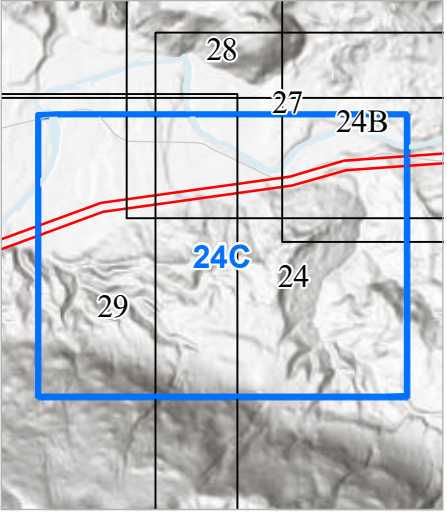
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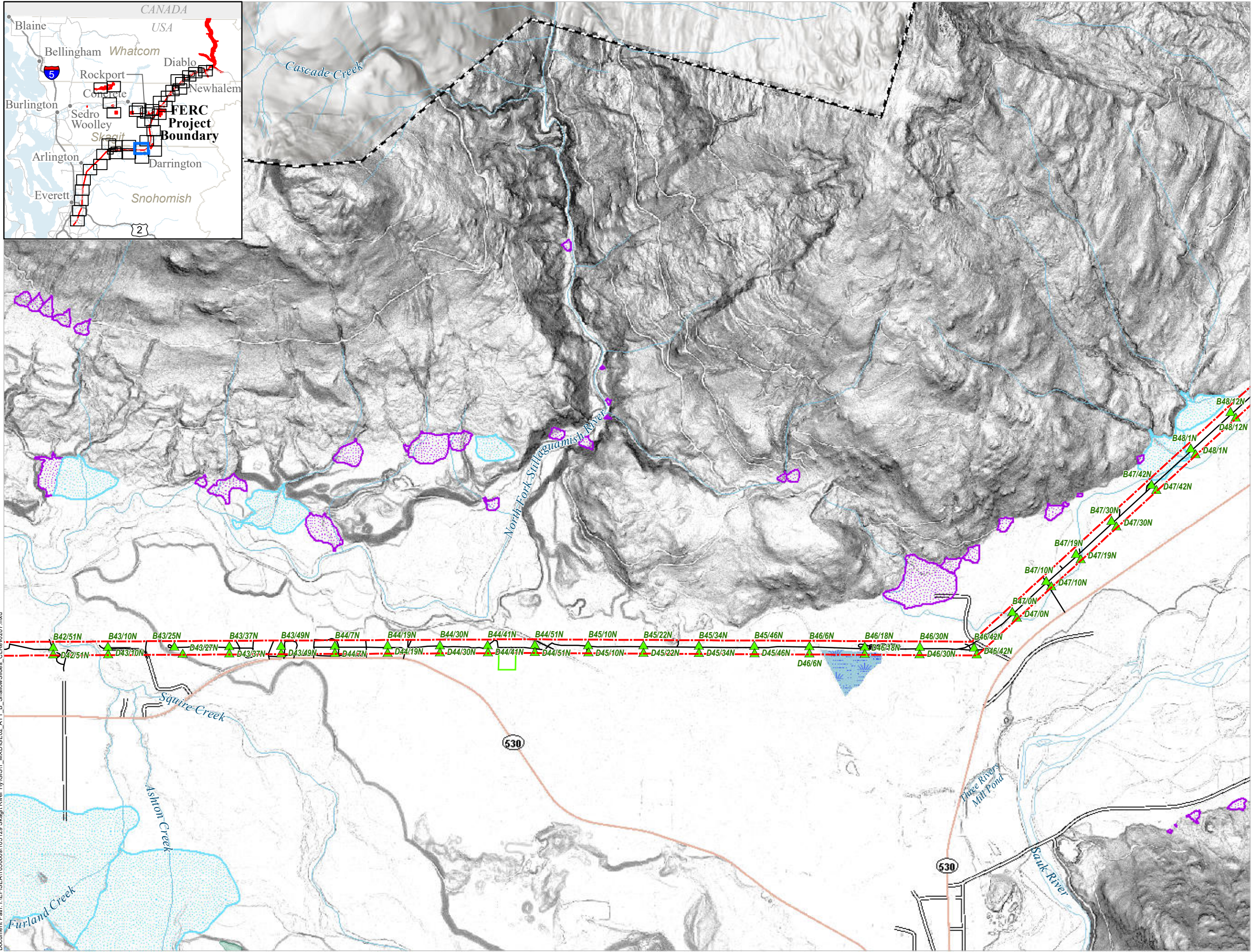
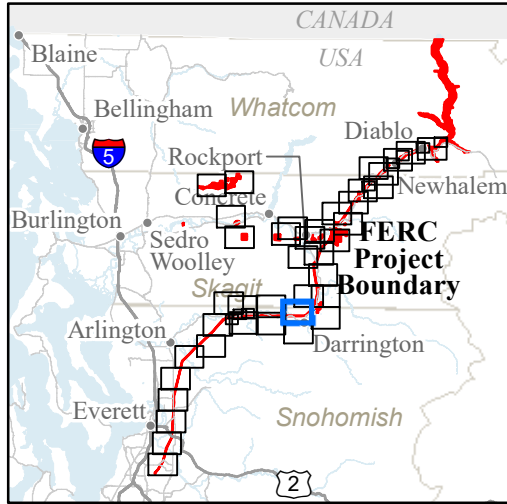




GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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 - Debris Flood
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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Major Facilities
- City Light Transmission Line Tower Locations

Study Routes

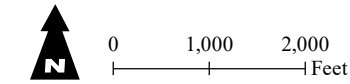
- Road
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- Shallow Landslide Deposits

Fan Deposits

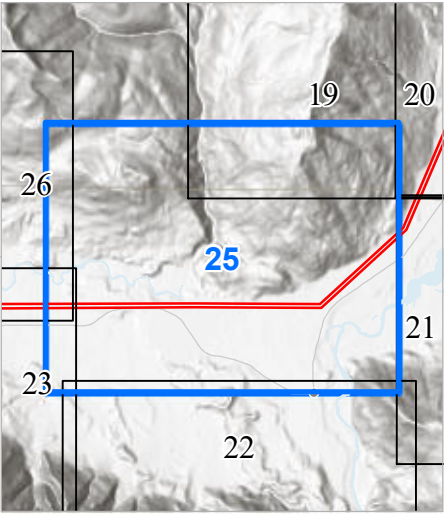
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



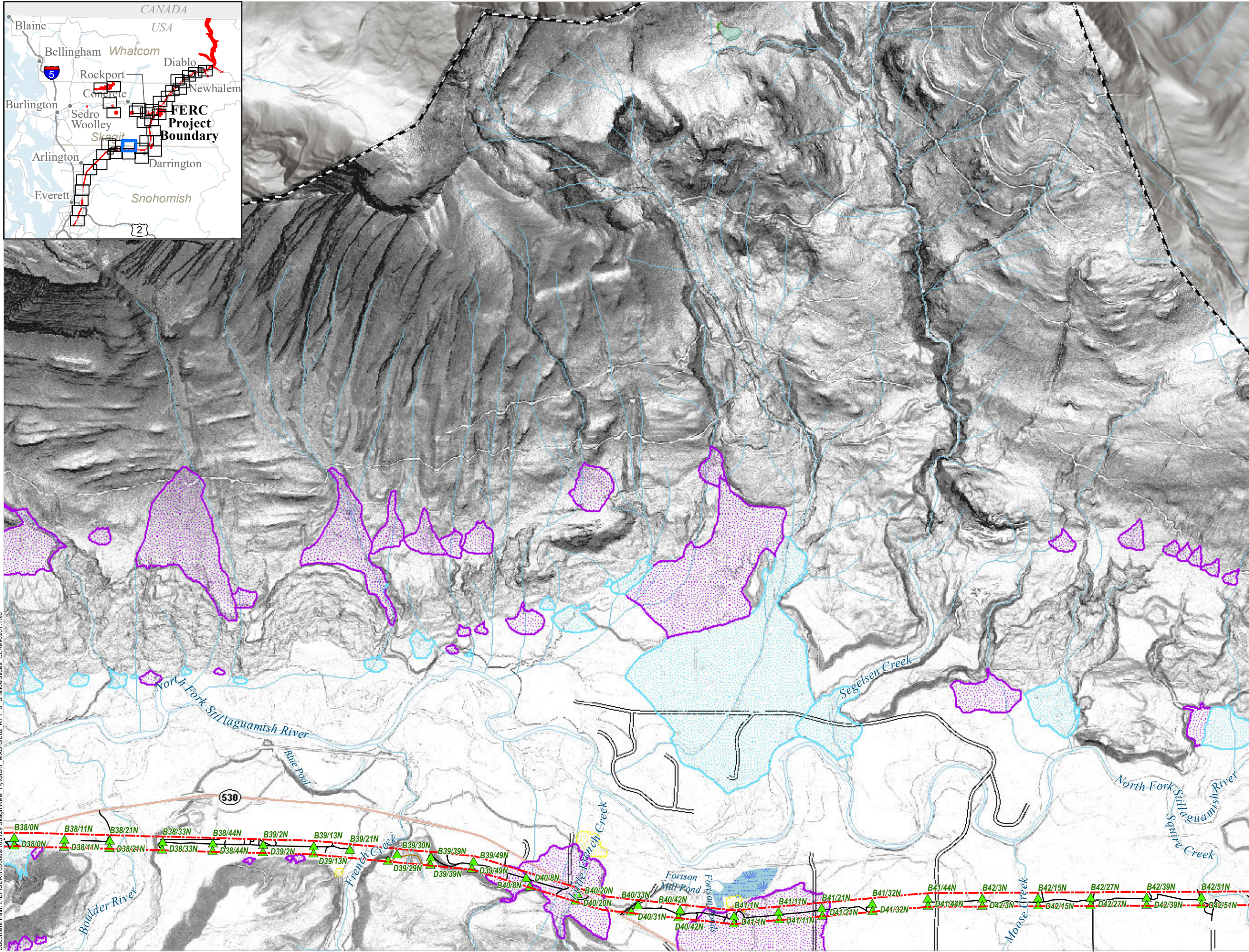
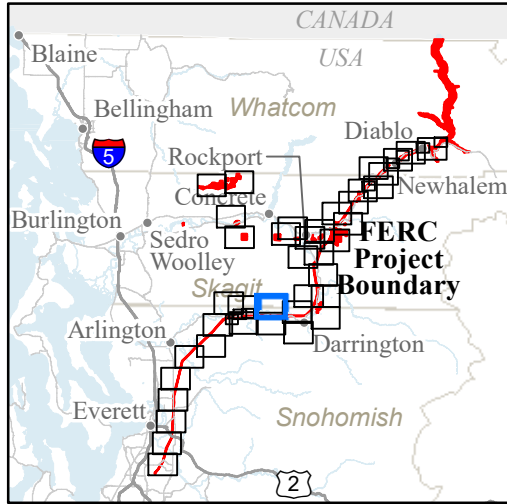
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Seattle City Light

SKAGIT RIVER HYDROELECTRIC PROJECT (FERC NO. 553)

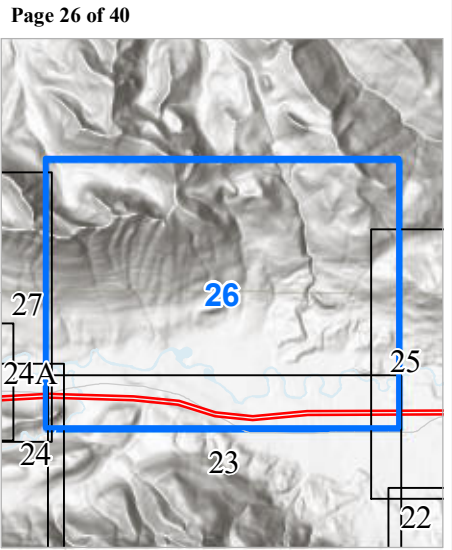
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- Fan Deposits**
 - Alluvial
 - Debris Flood
 - Debris Flow
- Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High

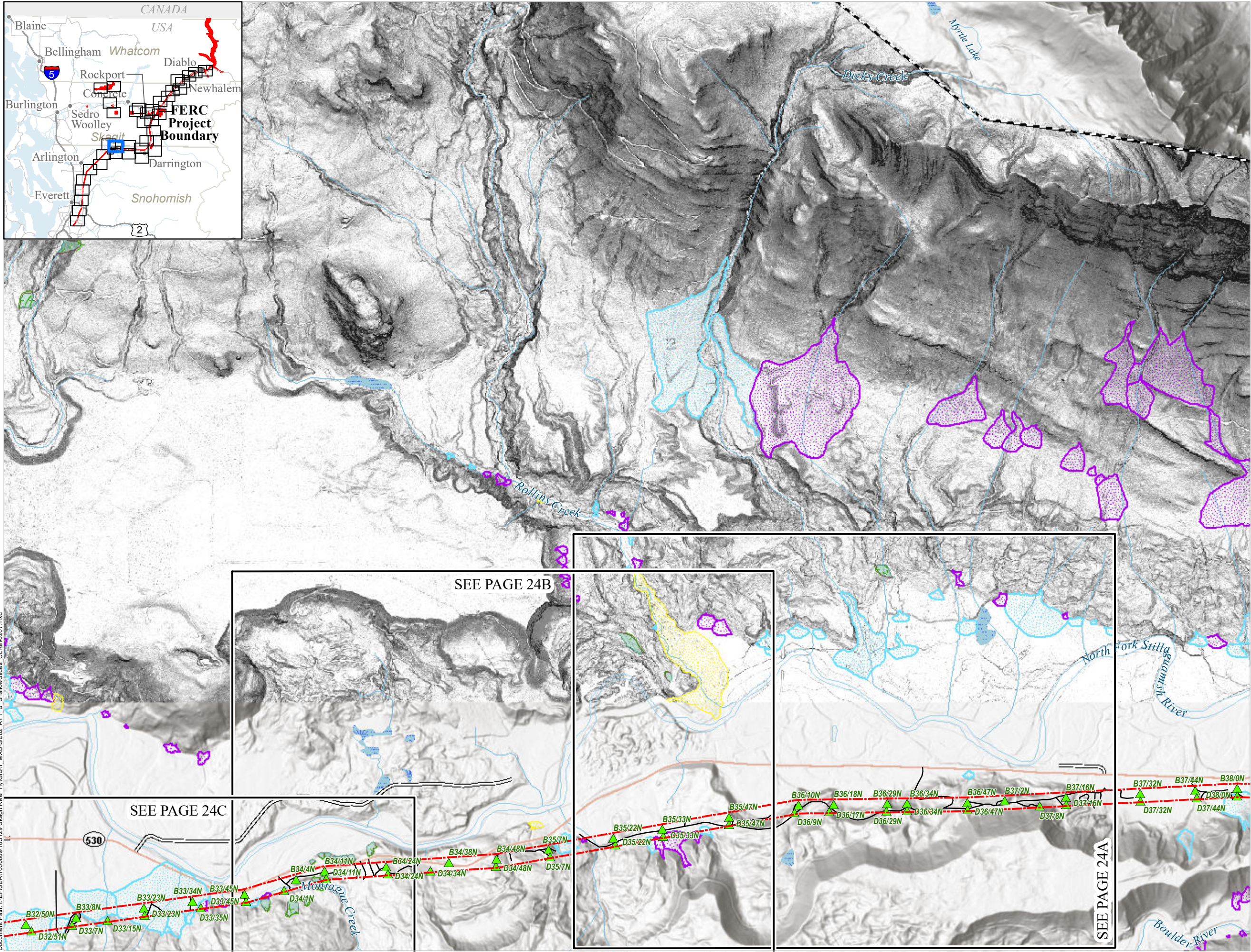
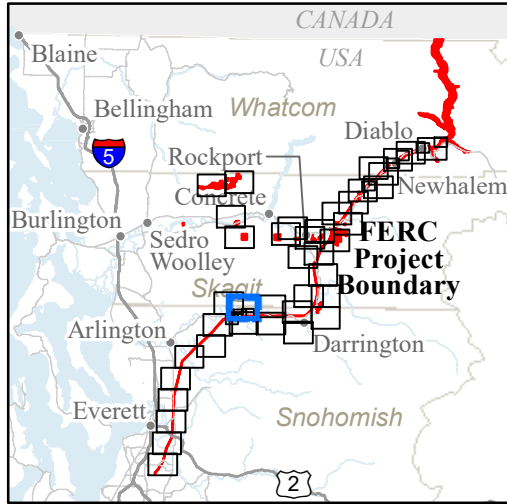
0 1,000 2,000 Feet



Seattle City Light

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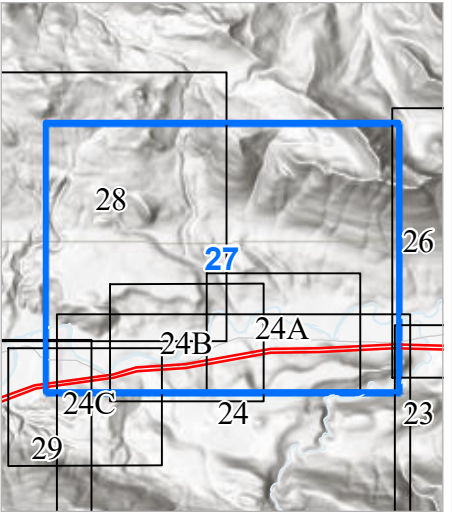


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Transmission Line Tower Locations
- Study Routes**
 - Road
 - Mass Wasting Study Boundary
 - Landslide Scarps
 - Shallow Landslide Head Scarps and Flanks
 - Shallow Landslide Deposits
- Fan Deposits**
 - Alluvial
 - Debris Flood
 - Debris Flow
- Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High

0 1,000 2,000 Feet

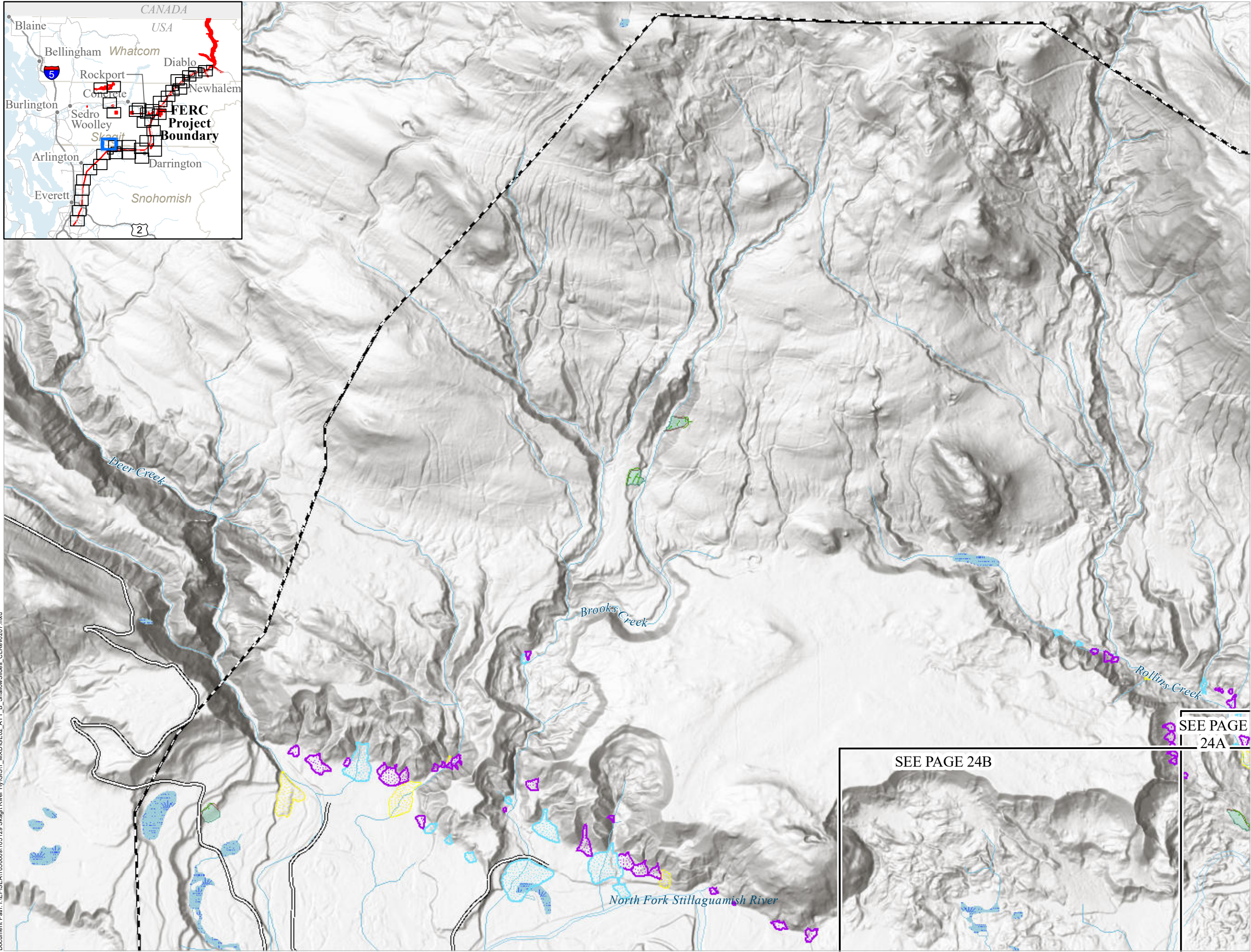
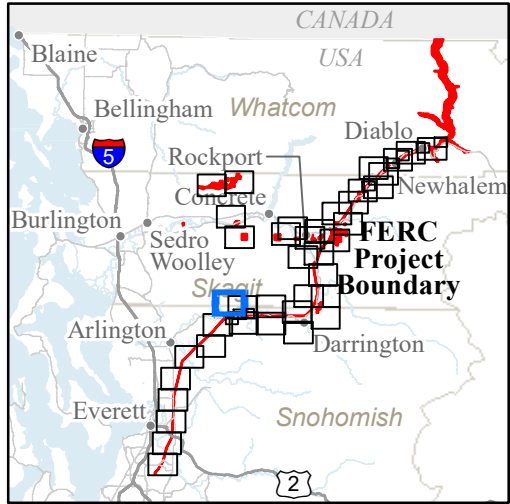
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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

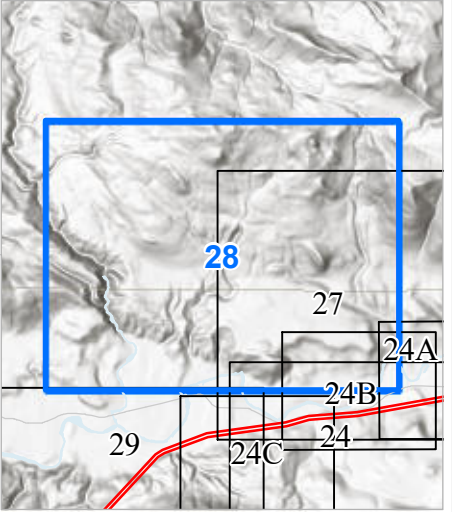
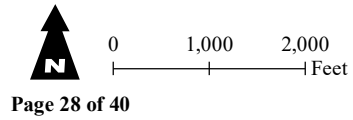
- Mass Wasting Study Boundary
- Landslide Scarps
- Shallow Landslide Head Scarps and Flanks
- Shallow Landslide Deposits

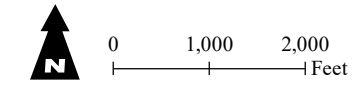
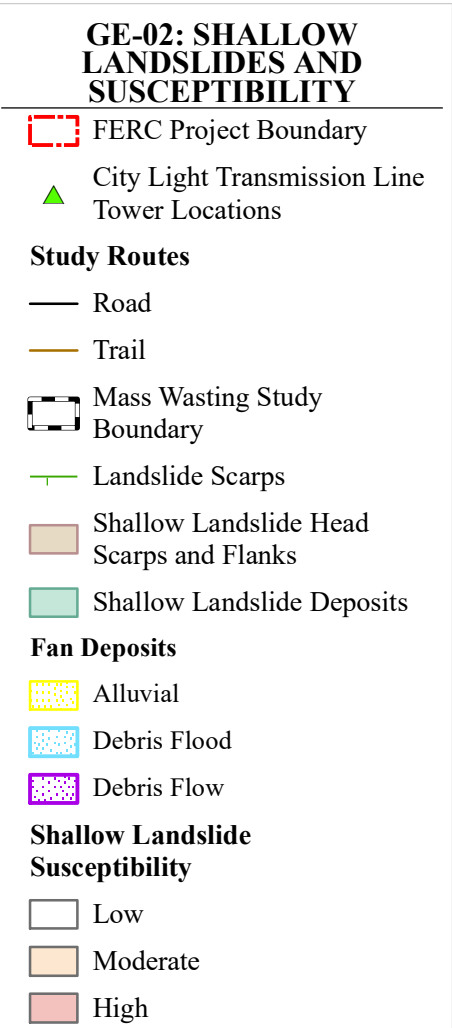
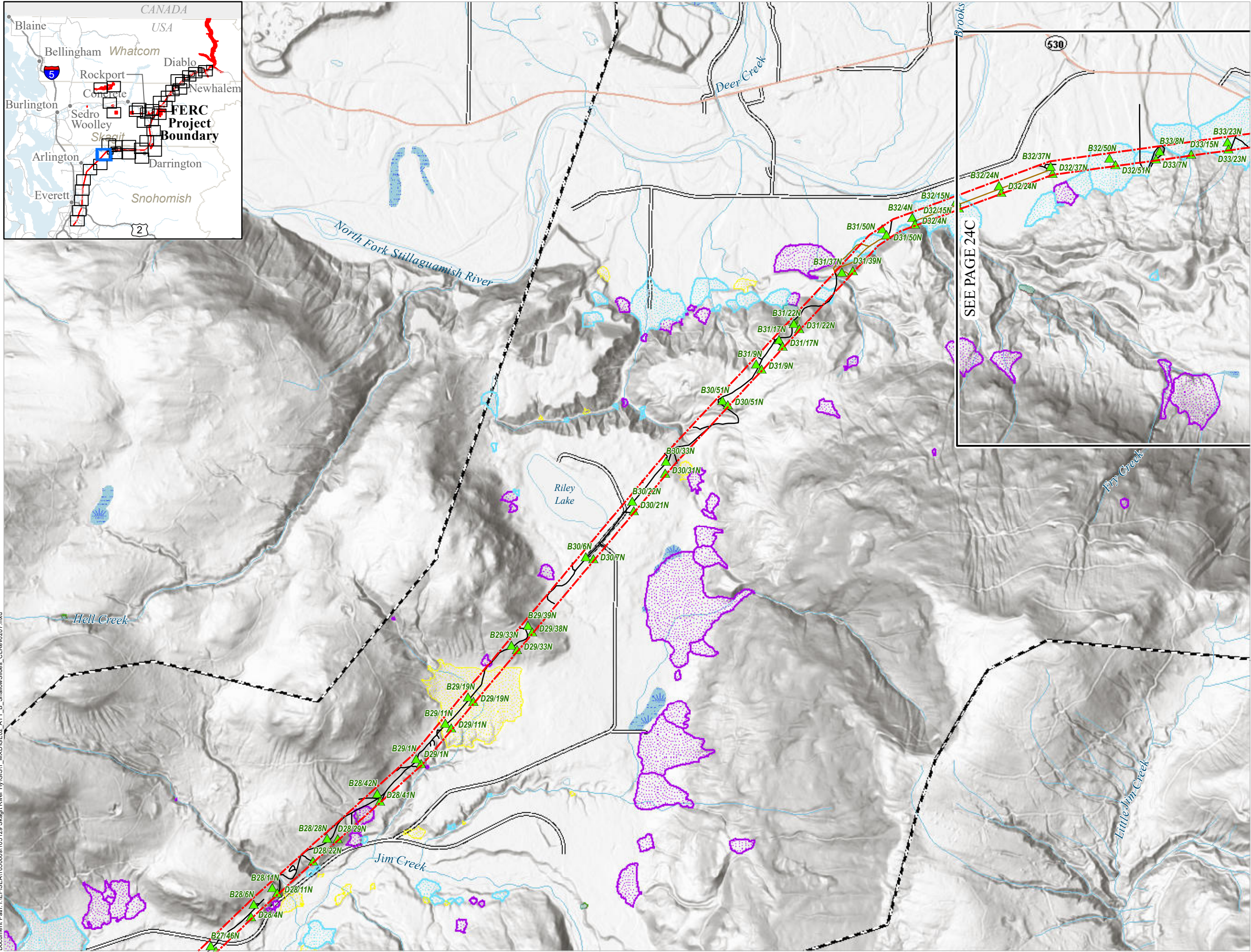
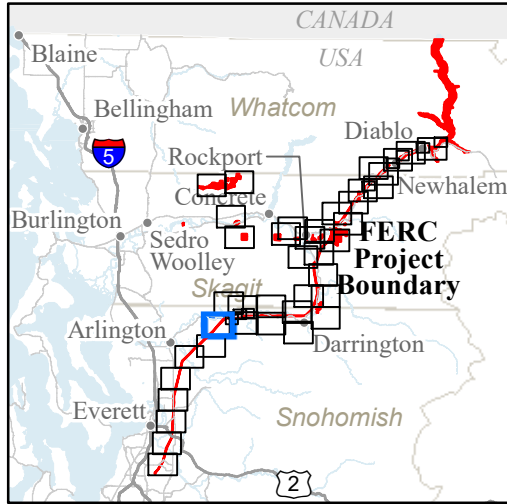
Fan Deposits

- Alluvial
- Debris Flood
- Debris Flow

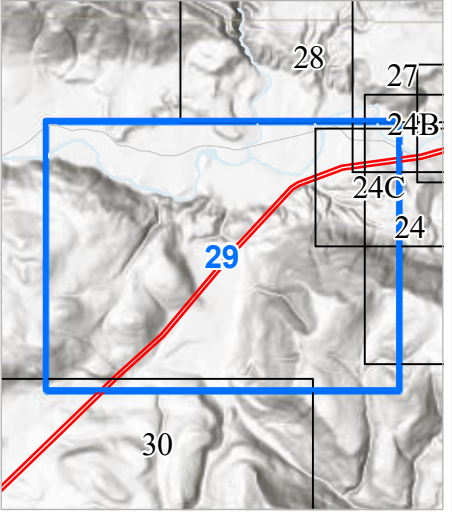
Shallow Landslide Susceptibility

- Low
- Moderate
- High





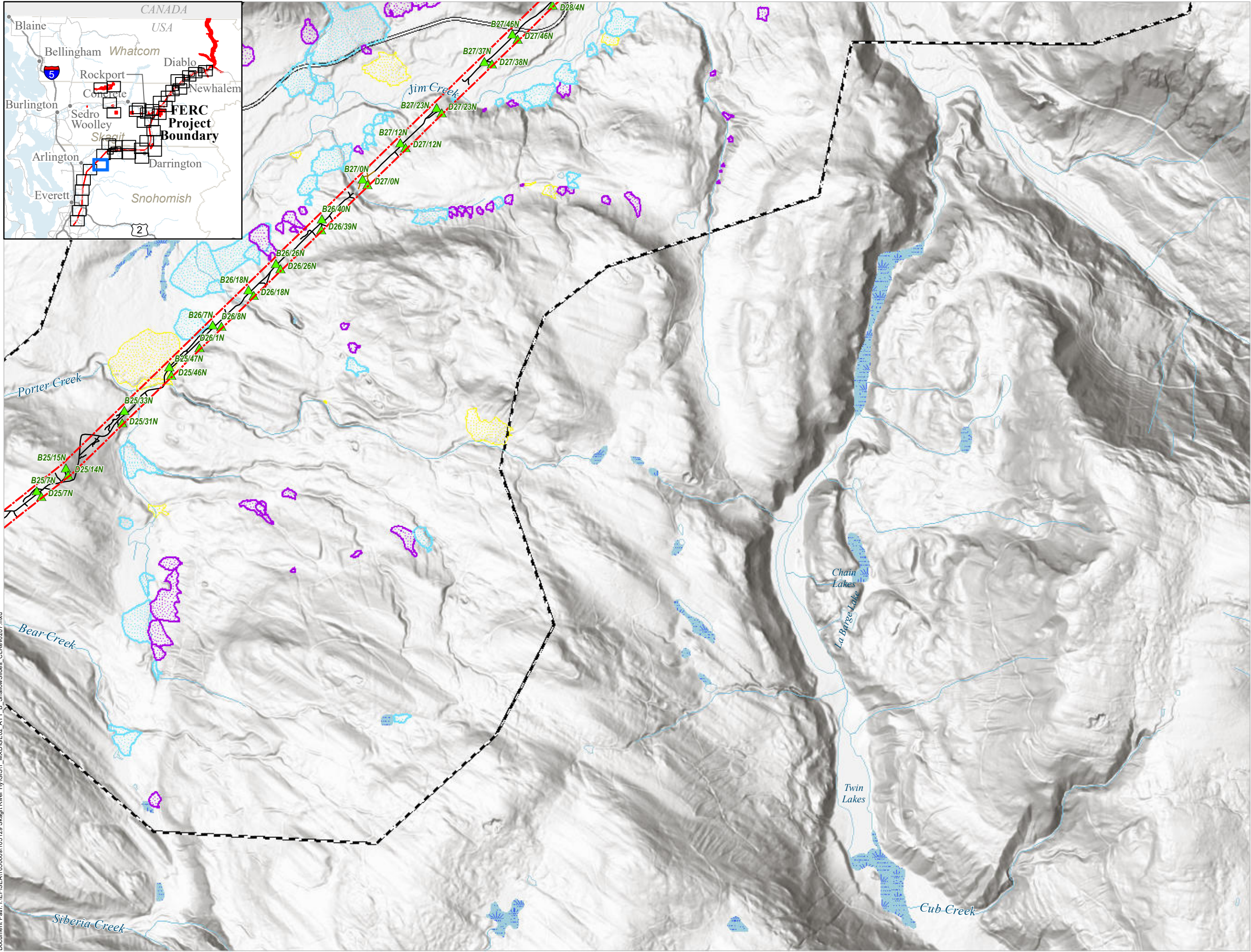
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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

FERC Project Boundary

City Light Transmission Line Tower Locations

Study Routes

Road

Trail

Mass Wasting Study Boundary

Fan Deposits

Alluvial

Debris Flood

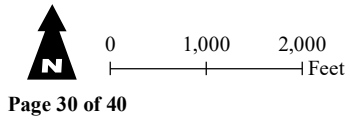
Debris Flow

Shallow Landslide Susceptibility

Low

Moderate

High



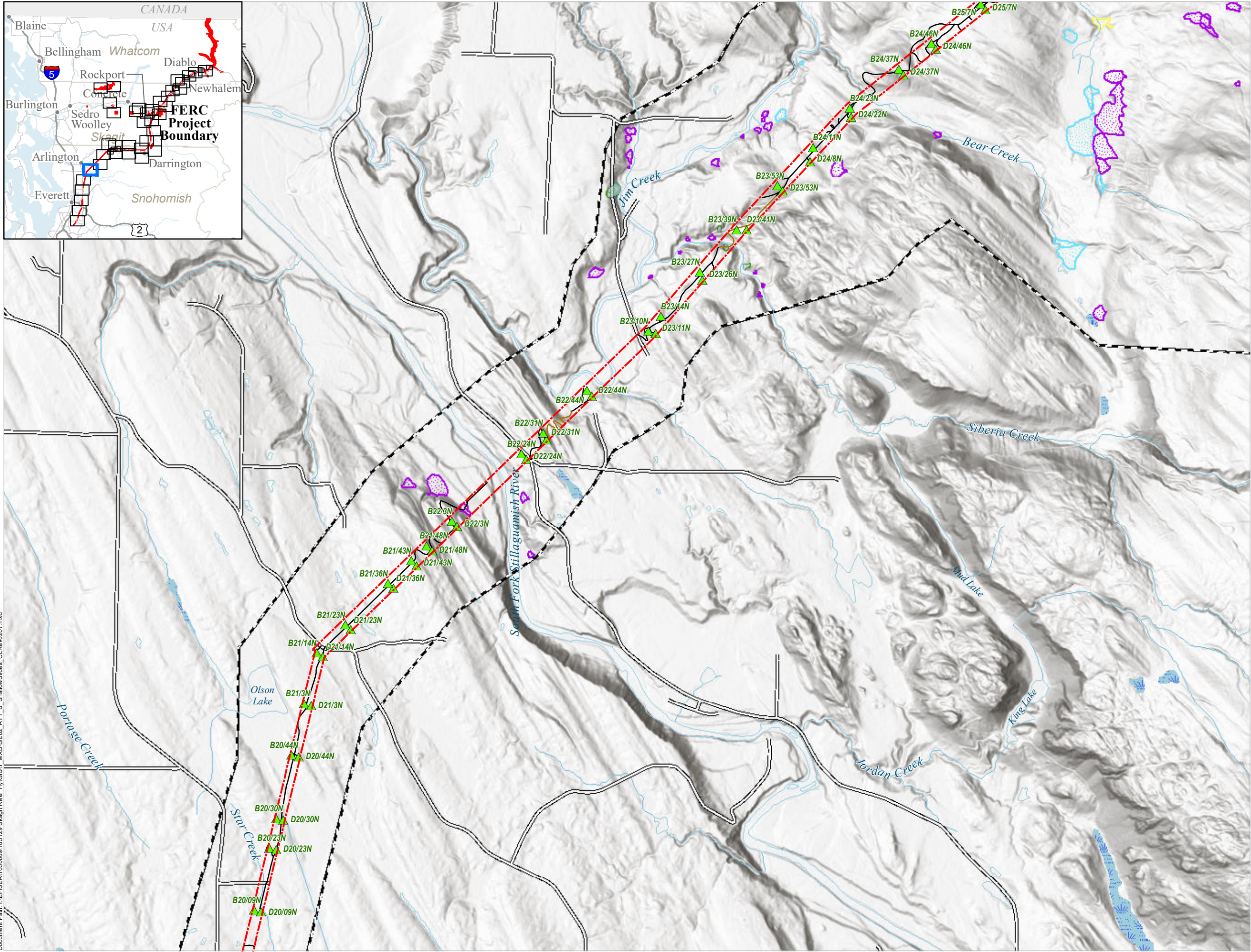
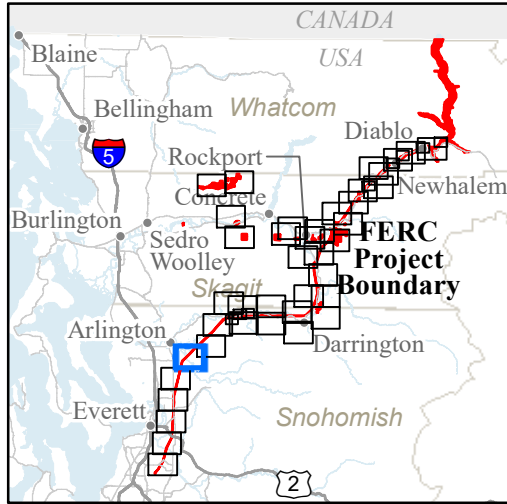
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Study Routes

- Road
- Trail
- Mass Wasting Study Boundary
- Landslide Scarps
- Shallow Landslide Head Scarps and Flanks
- Shallow Landslide Deposits

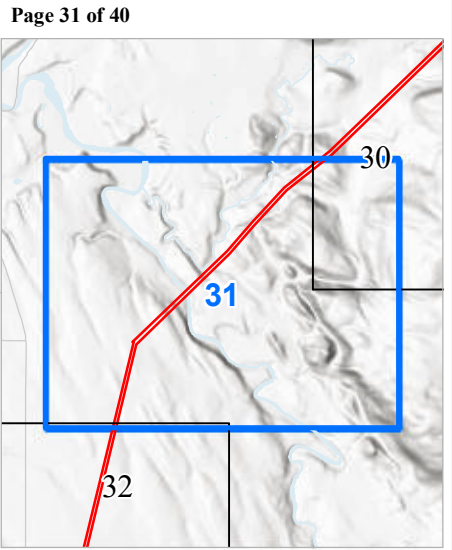
Fan Deposits

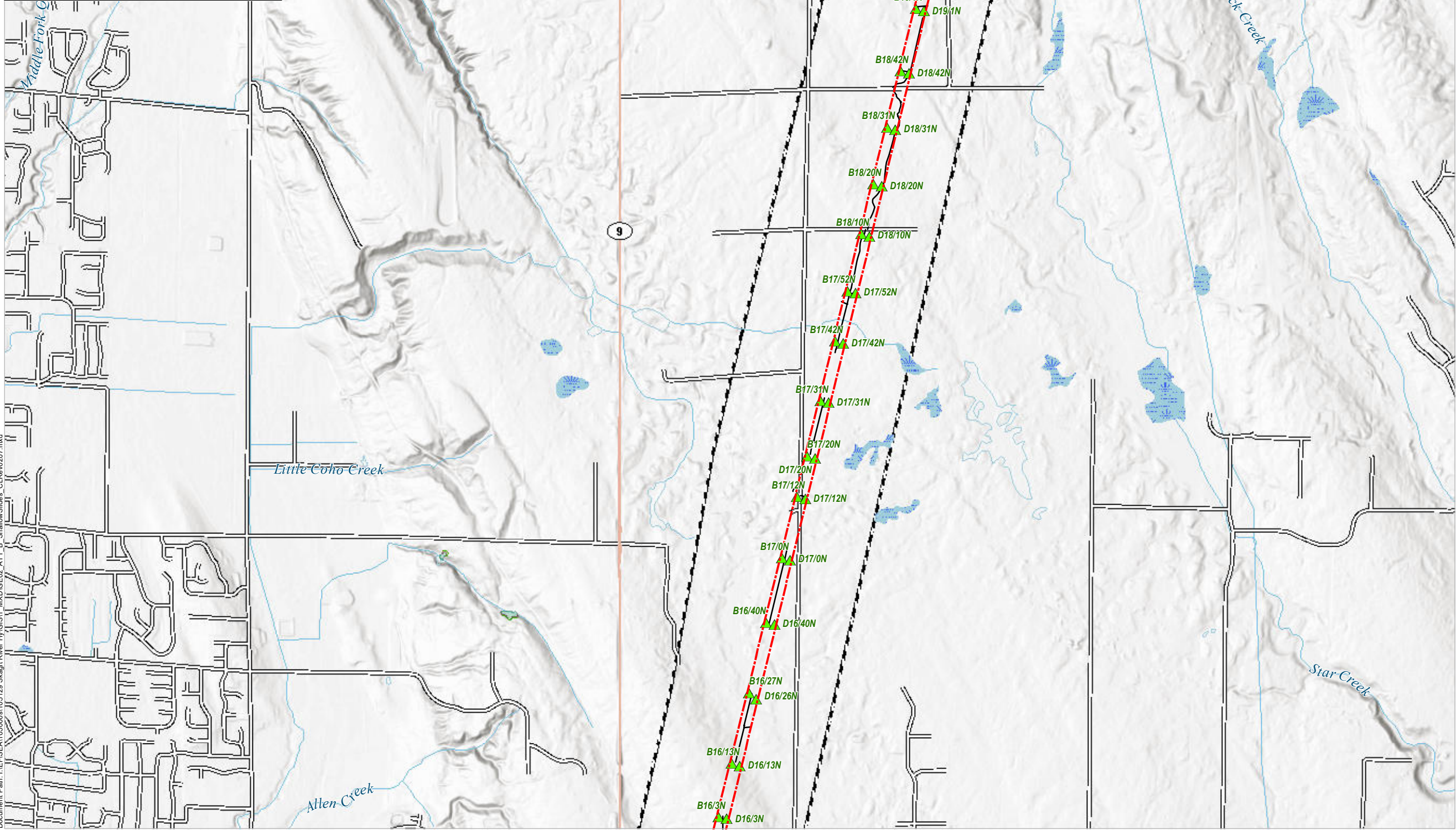
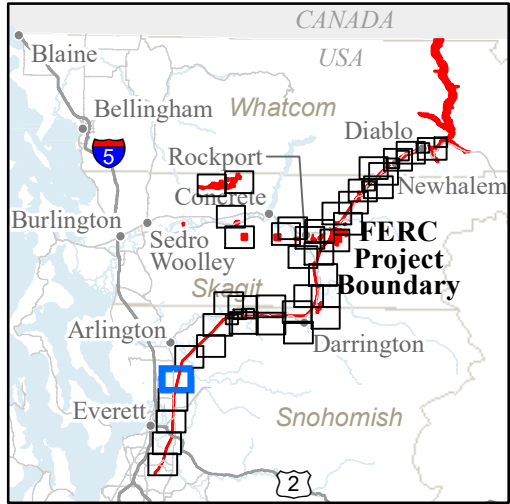
- Alluvial
- Debris Flood
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High

0 1,000 2,000 Feet





GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Transmission Line Tower Locations

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- Landslide Scarps
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Shallow Landslide Susceptibility

- Low
- Moderate
- High

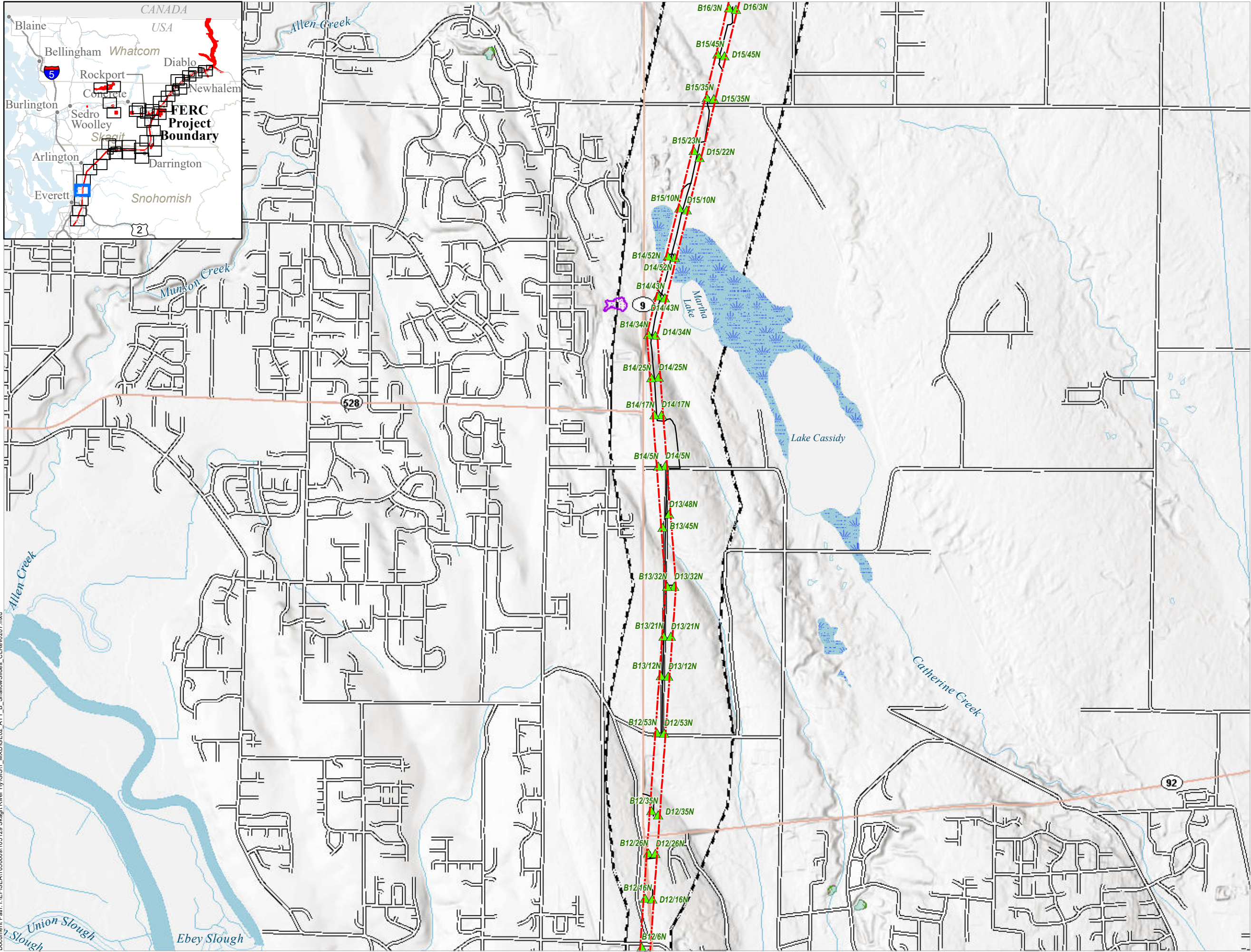
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Seattle City Light

SKAGIT RIVER HYDROELECTRIC PROJECT (FERC NO. 553)

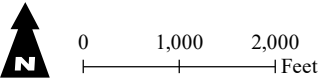
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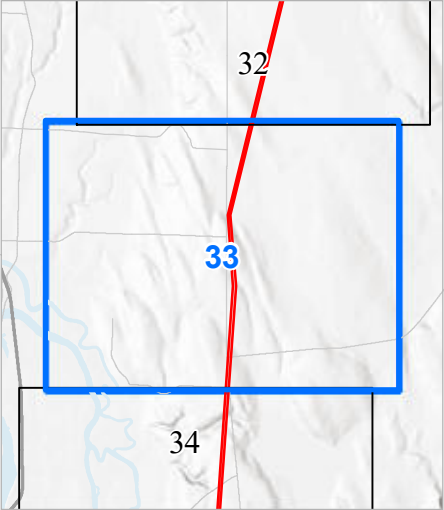
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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
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- Fan Deposits**
 - Debris Flow
- Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High



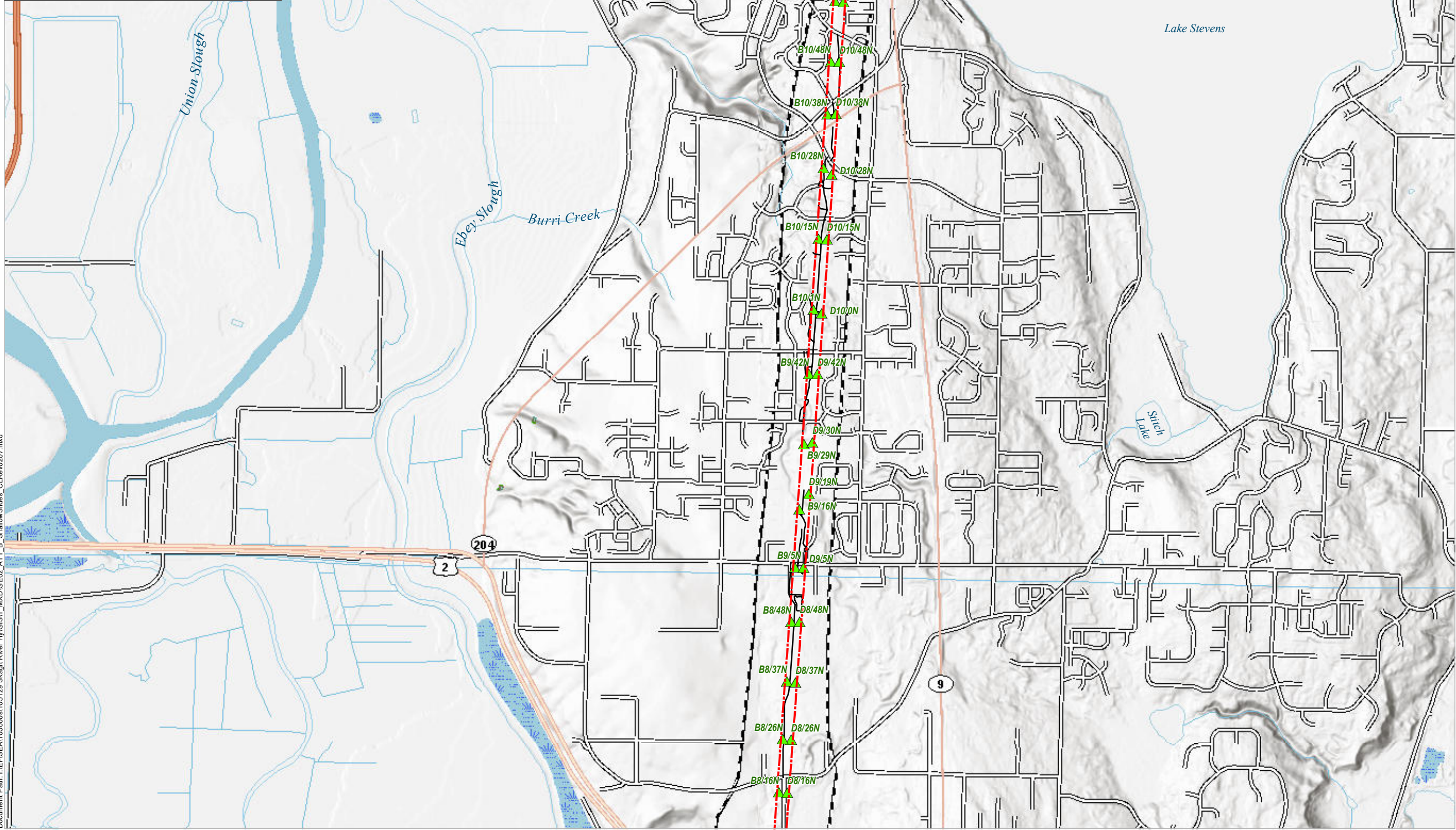
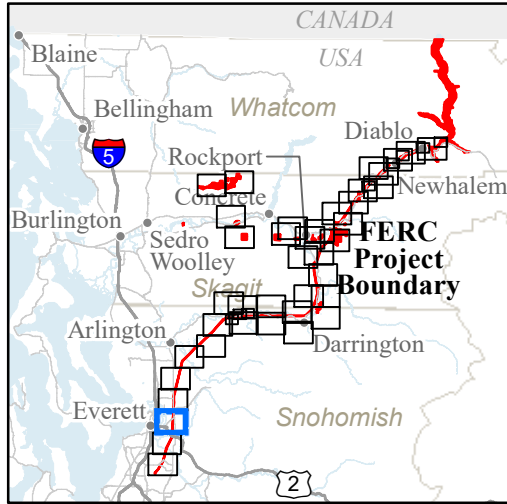
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Seattle City Light

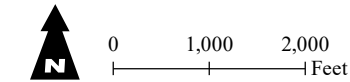
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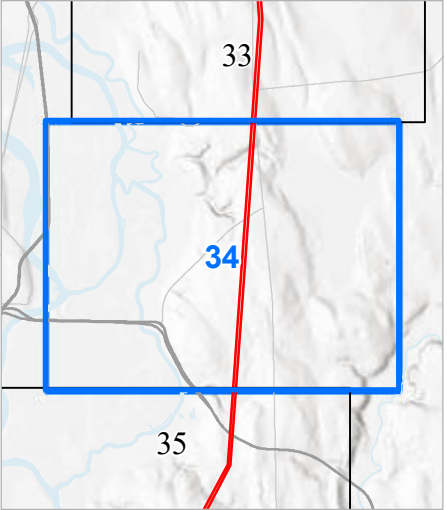


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
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- Fan Deposits**
 - Debris Flow
- Shallow Landslide Susceptibility**
 - Low
 - Moderate
 - High



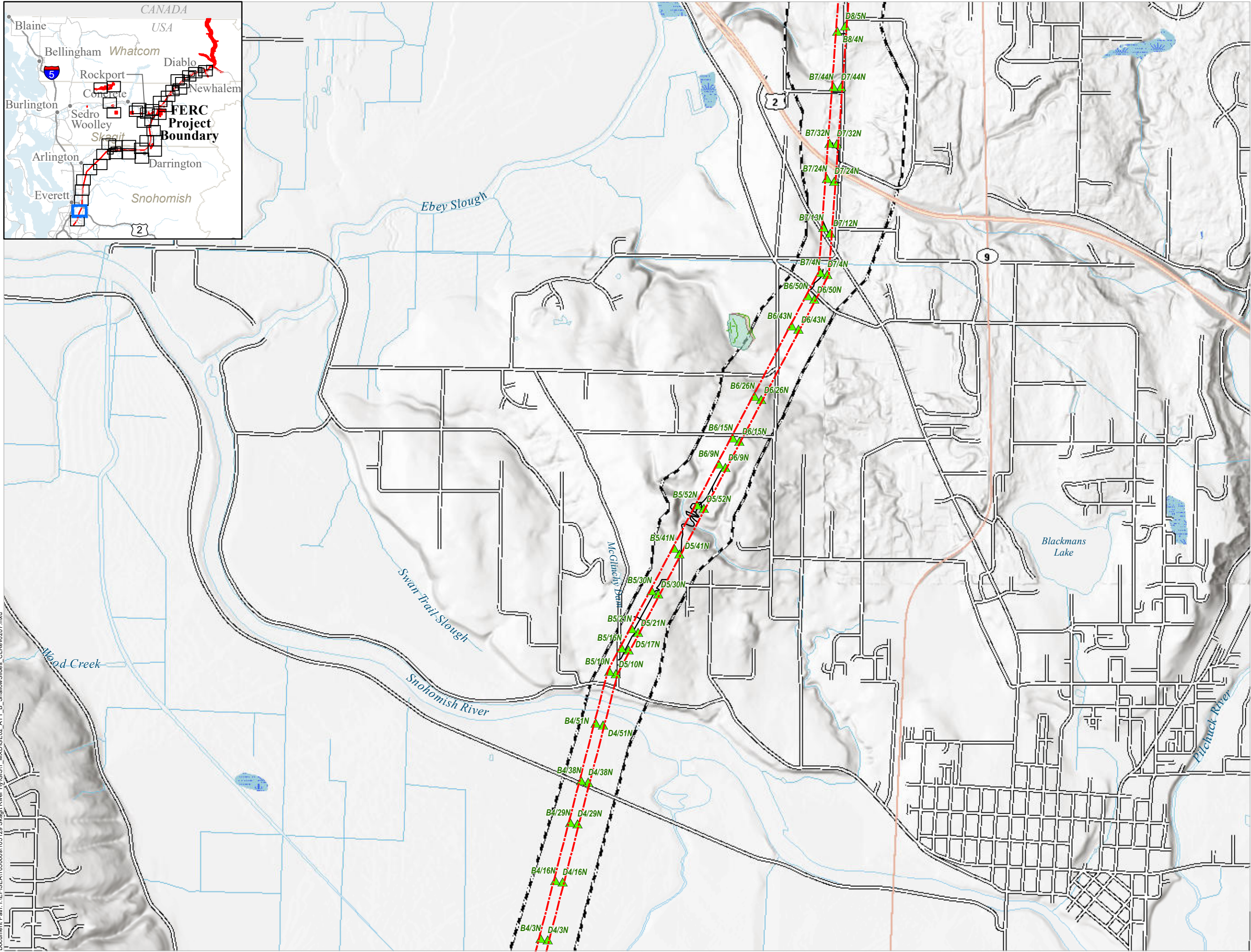
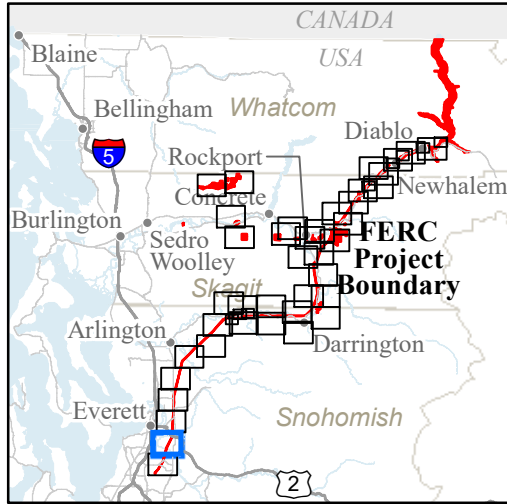
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Seattle City Light

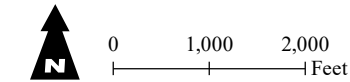
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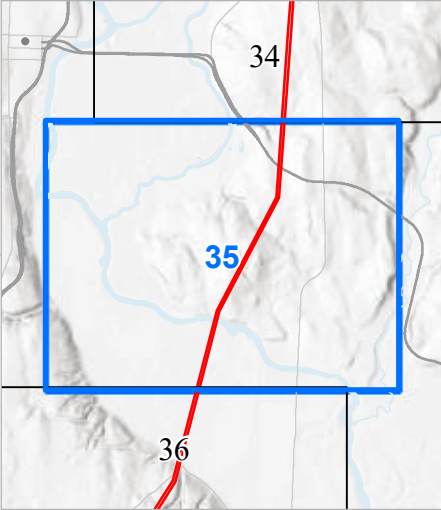


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
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 - Shallow Landslide Deposits
- Shallow Landslide Susceptibility**
 - Low
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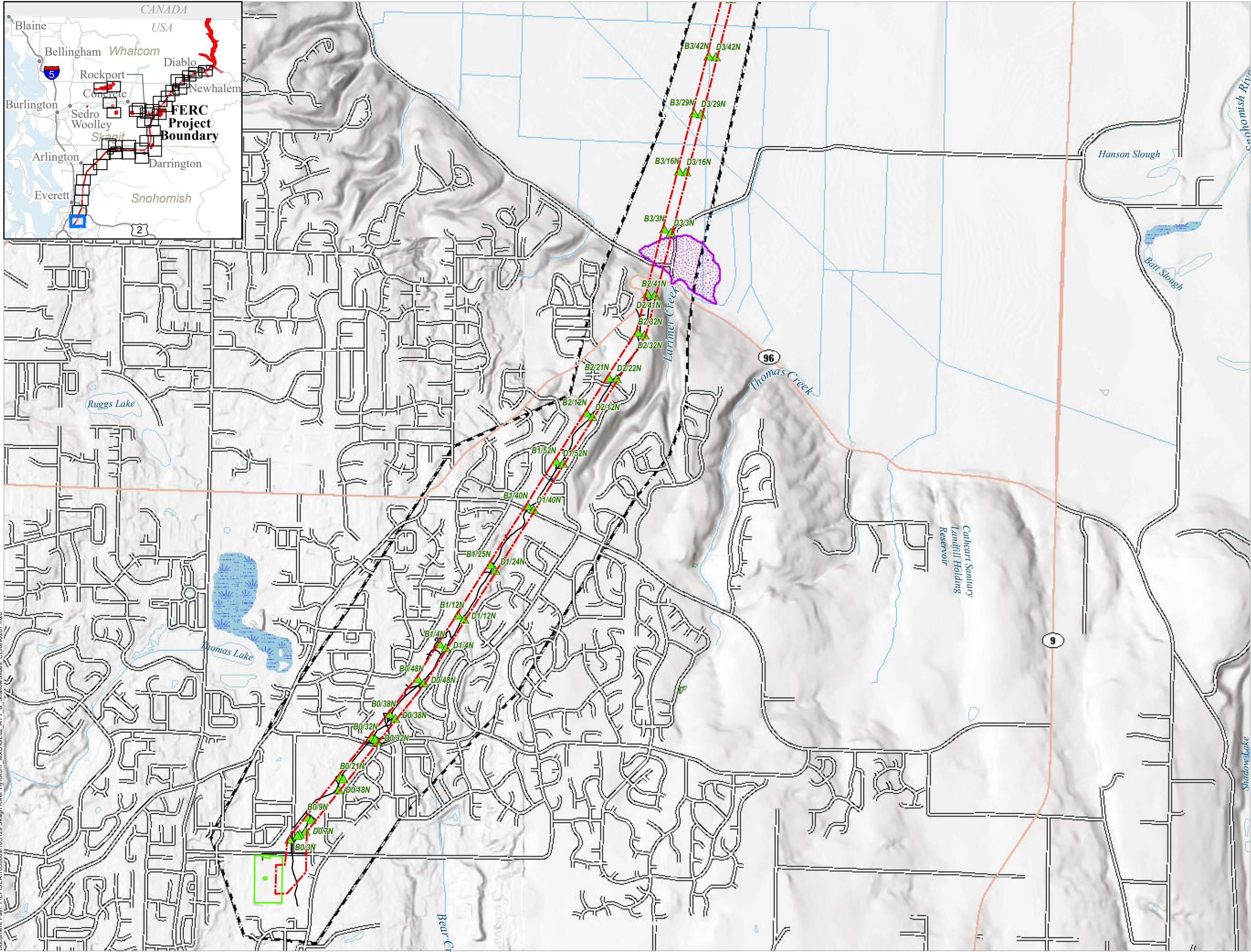
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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

- FERC Project Boundary
- City Light Major Facilities
- City Light Transmission Line Tower Locations

Study Routes

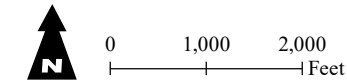
- Road
- Mass Wasting Study Boundary
- Landslide Scarps
- Shallow Landslide Head Scarps and Flanks
- Shallow Landslide Deposits

Fan Deposits

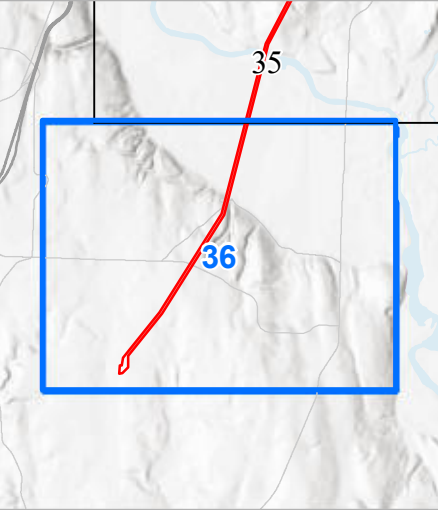
- Debris Flow

Shallow Landslide Susceptibility

- Low
- Moderate
- High



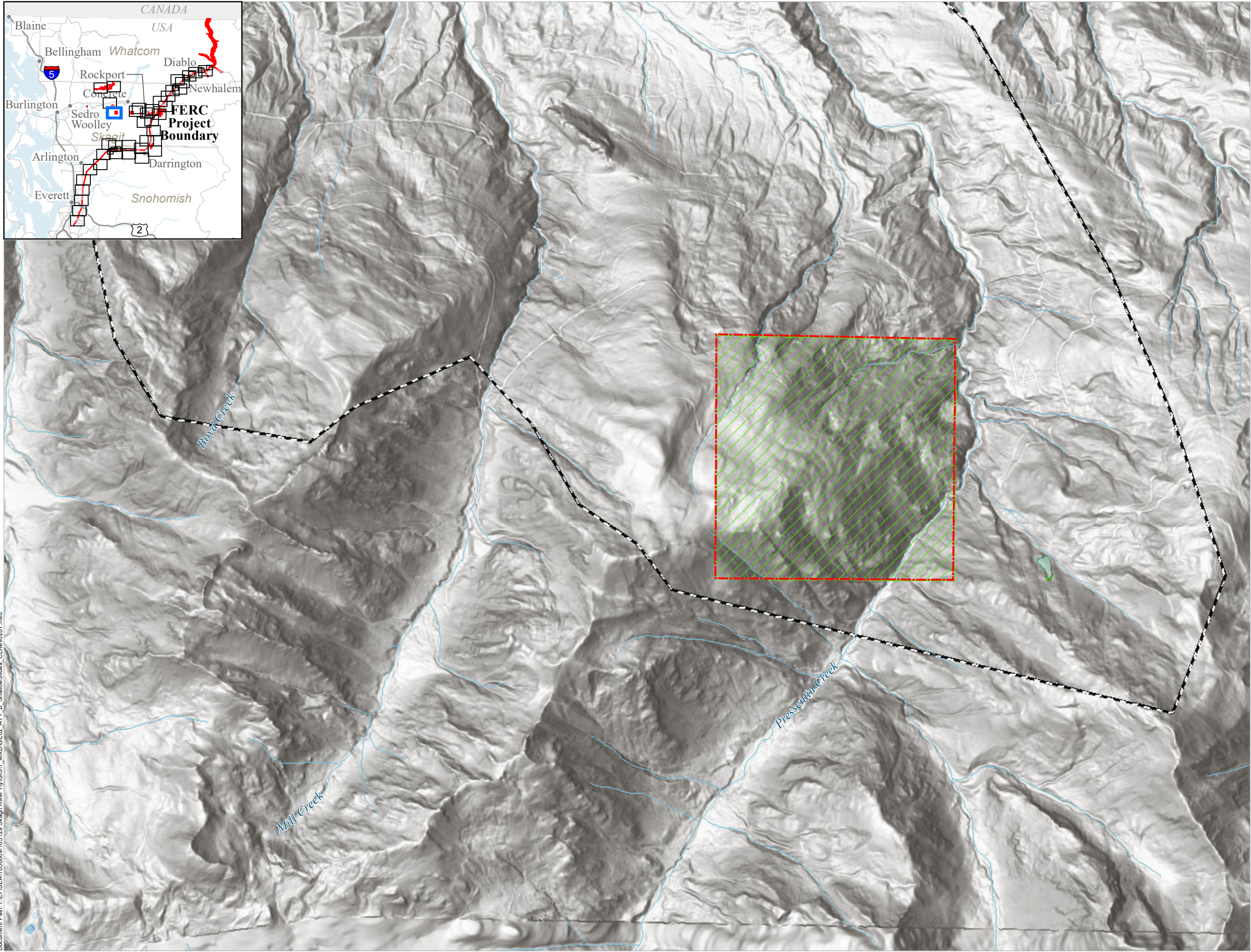
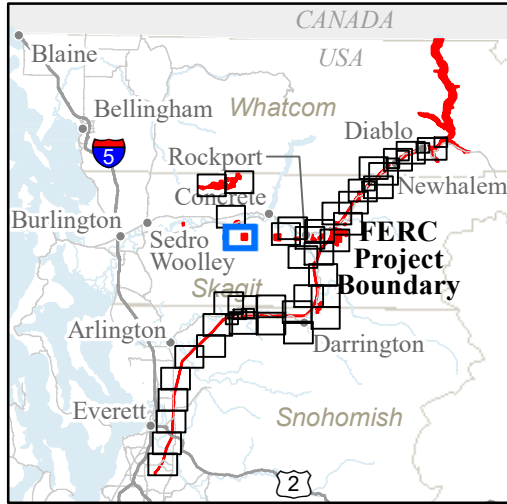
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Seattle City Light

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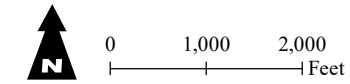


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

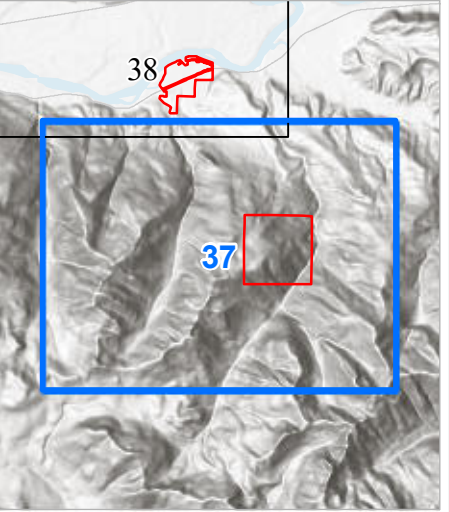
- FERC Project Boundary
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- Mass Wasting Study Boundary
- Landslide Scarps
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- Shallow Landslide Deposits

Shallow Landslide Susceptibility

- Low
- Moderate
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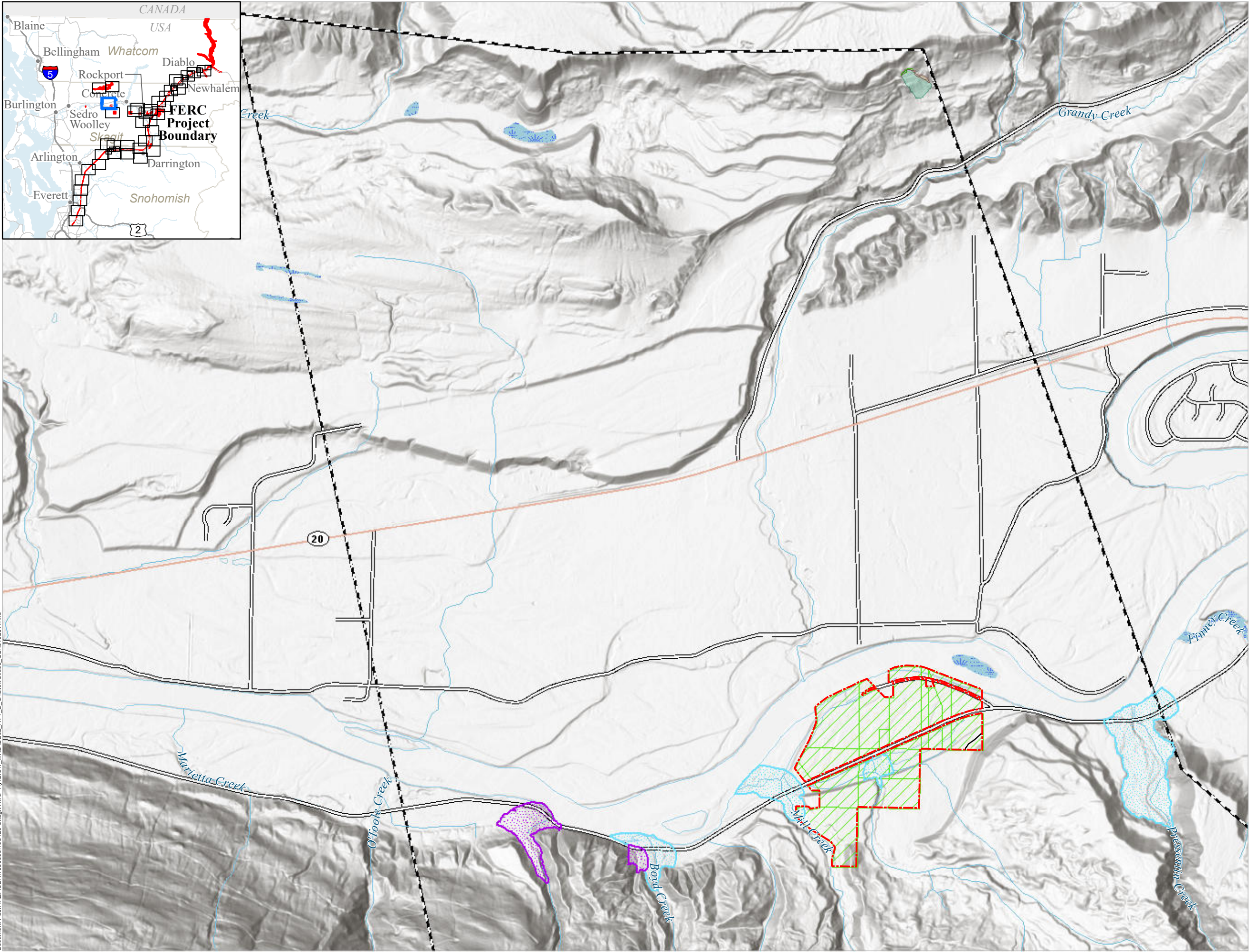
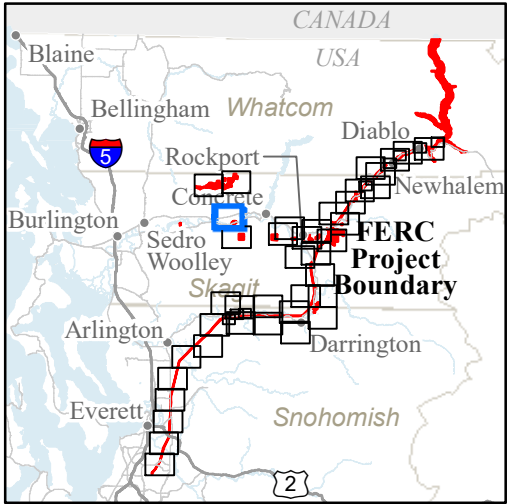
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Seattle City Light

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GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

FERC Project Boundary

City Light Mitigation Parcels

Study Routes

Road

Mass Wasting Study Boundary

Landslide Scarps

Shallow Landslide Head Scars and Flanks

Shallow Landslide Deposits

Fan Deposits

Debris Flood

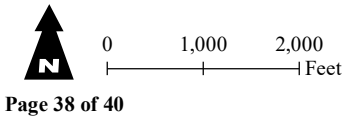
Debris Flow

Shallow Landslide Susceptibility

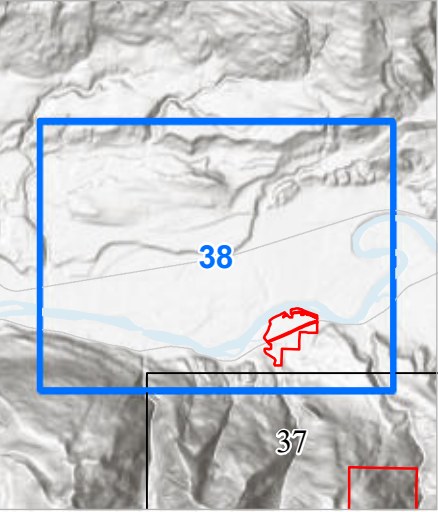
Low

Moderate

High



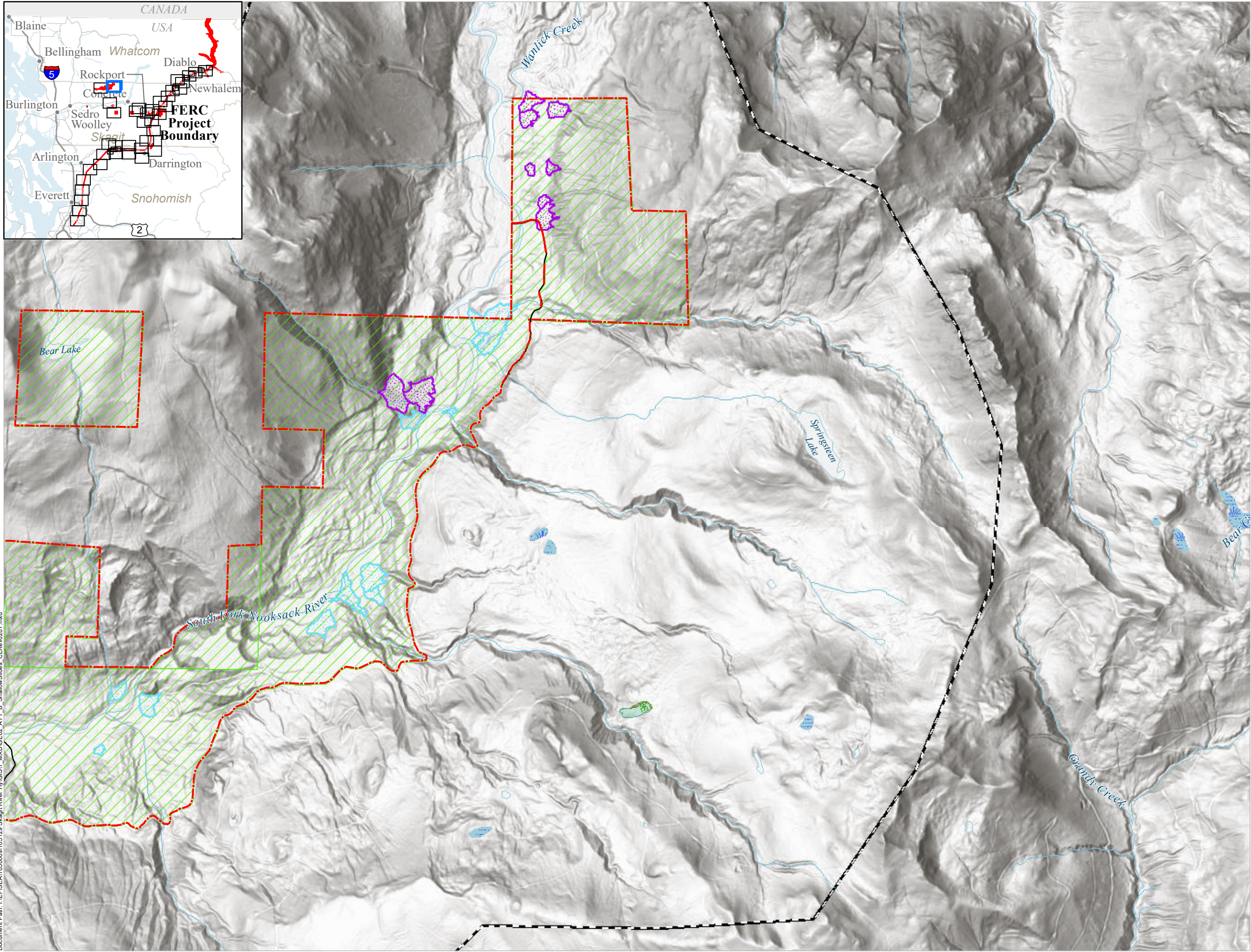
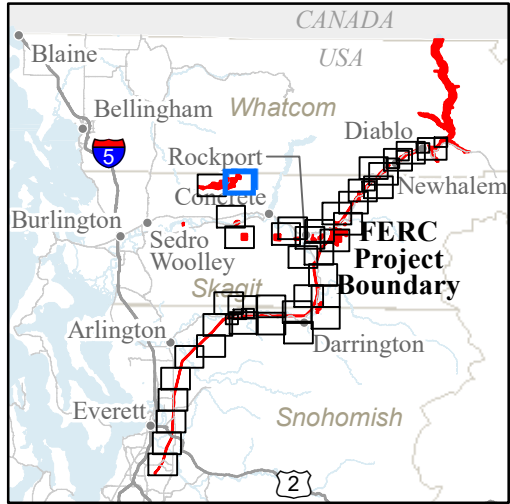
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Seattle City Light

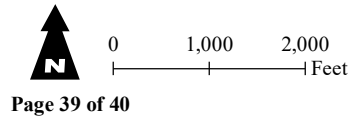
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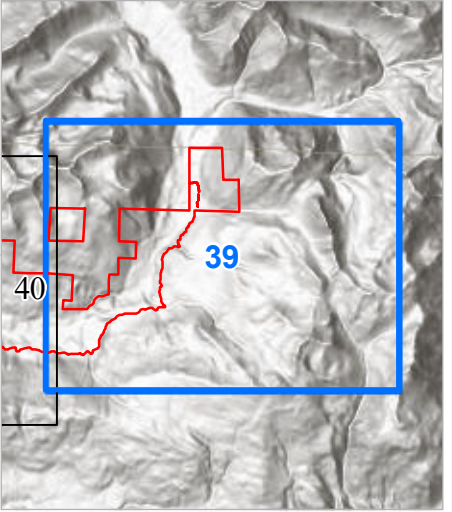


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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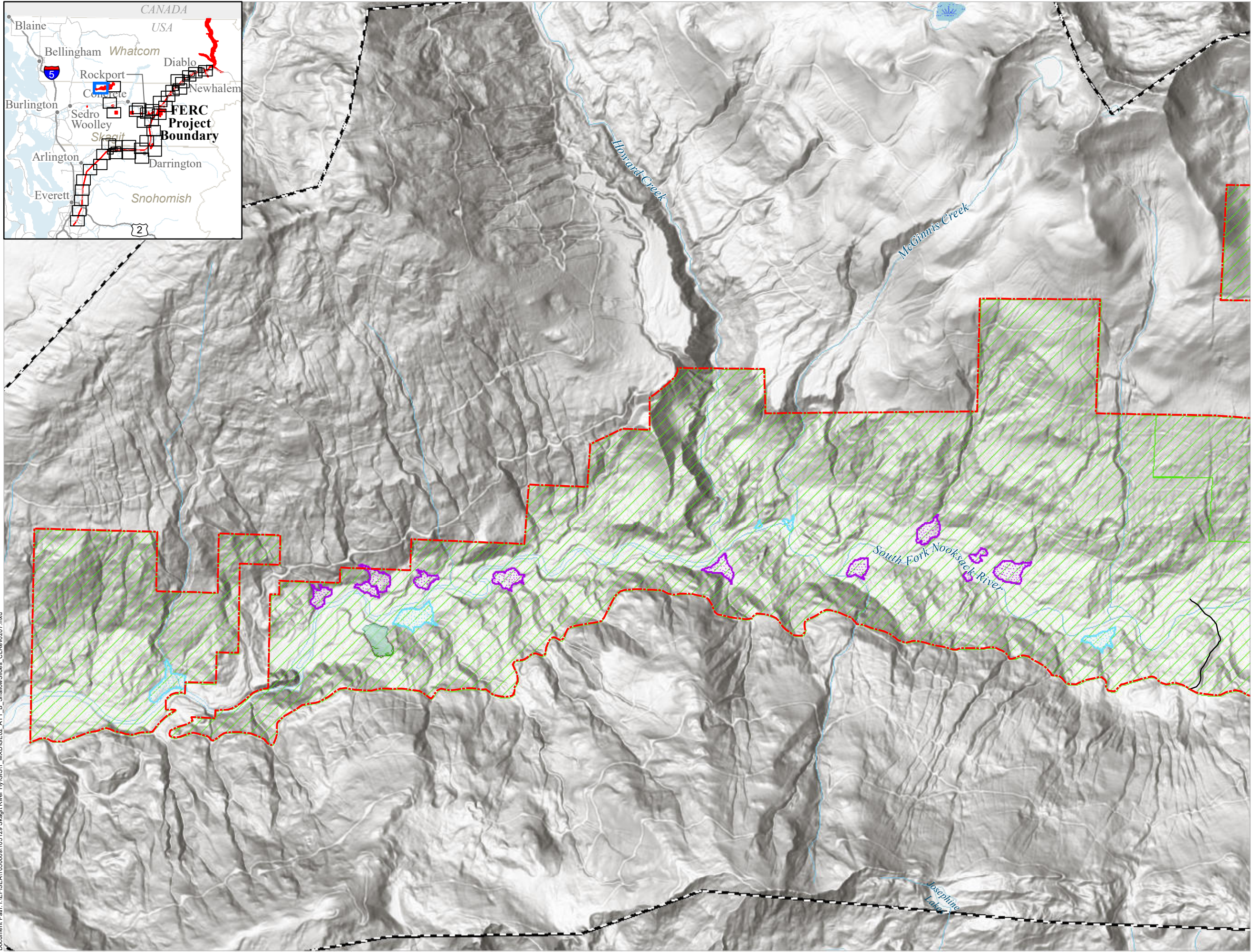
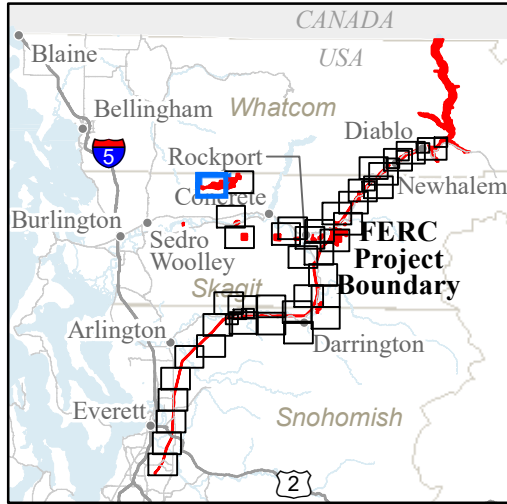
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Seattle City Light

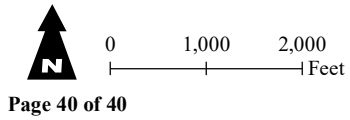
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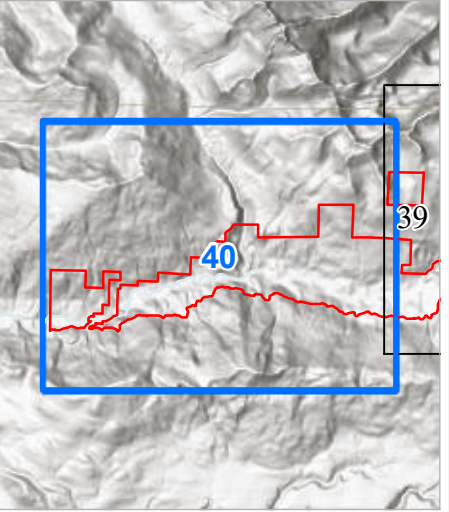


GE-02: SHALLOW LANDSLIDES AND SUSCEPTIBILITY

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Seattle City Light

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