

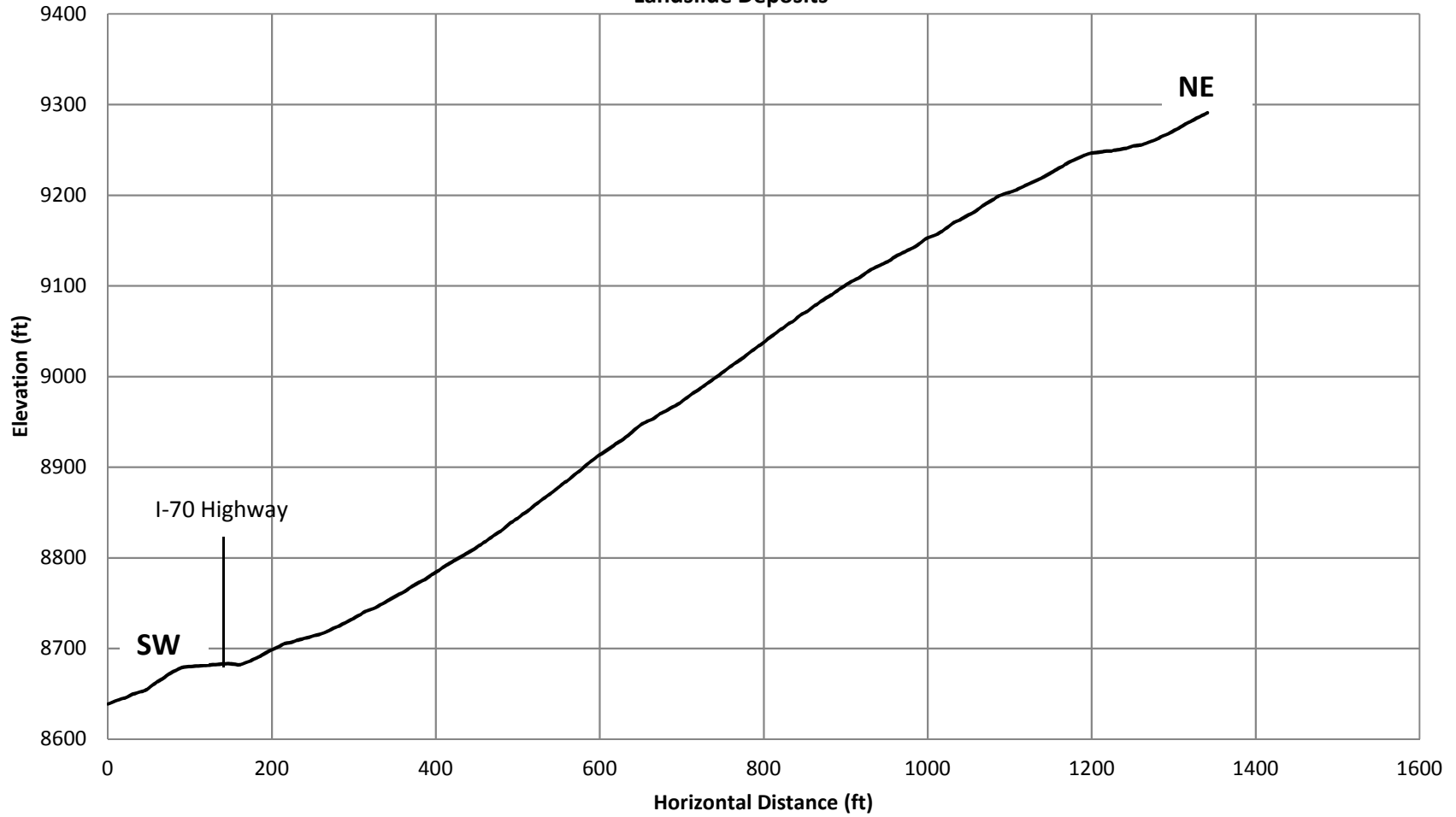


APPENDIX D
GEOTECHNICAL MAPS

XS-1 Profile Approximately MP 181.6

Landslide Deposits

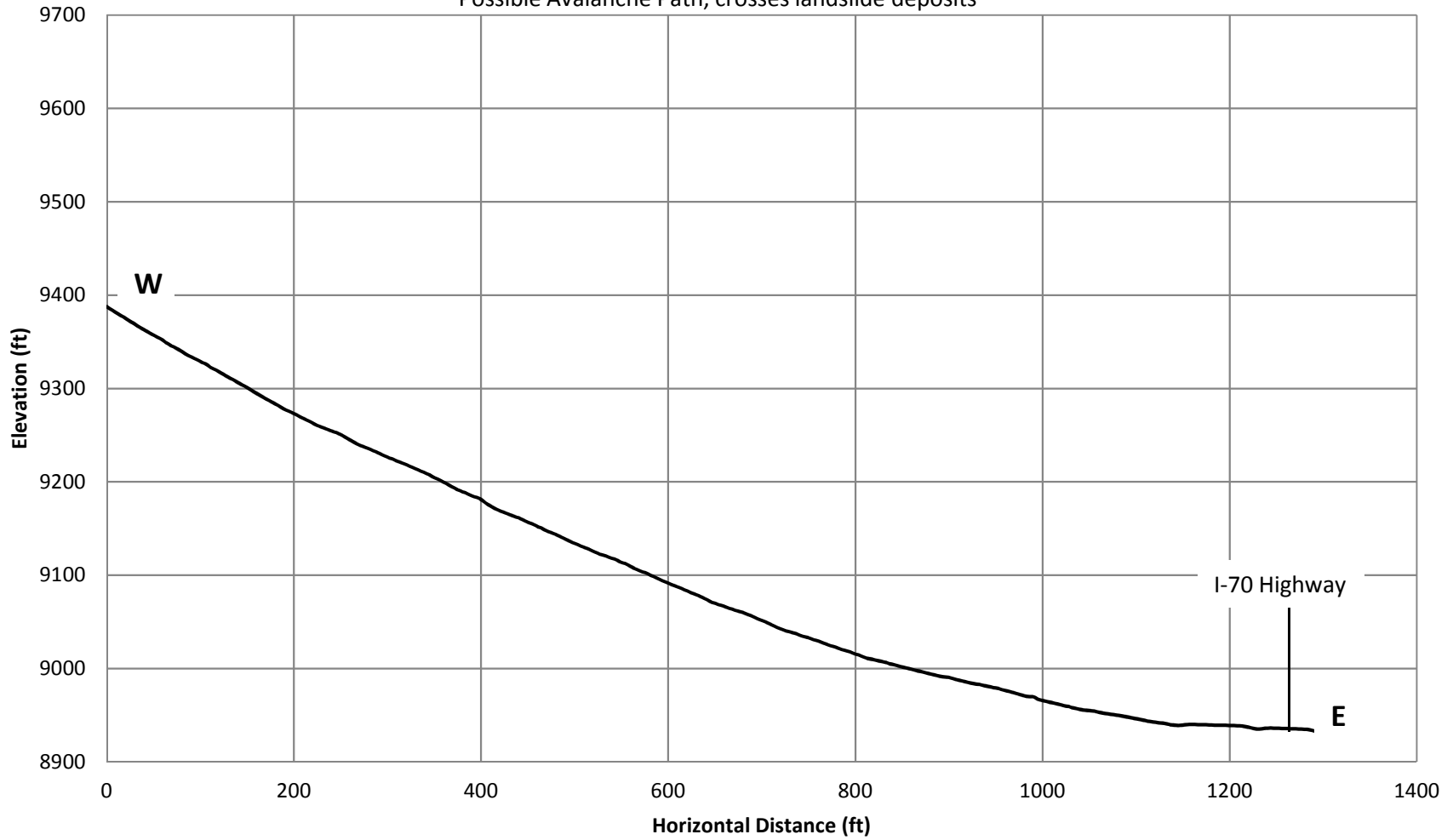
54% Slope



XS-2 Profile Approximately MP 182.7

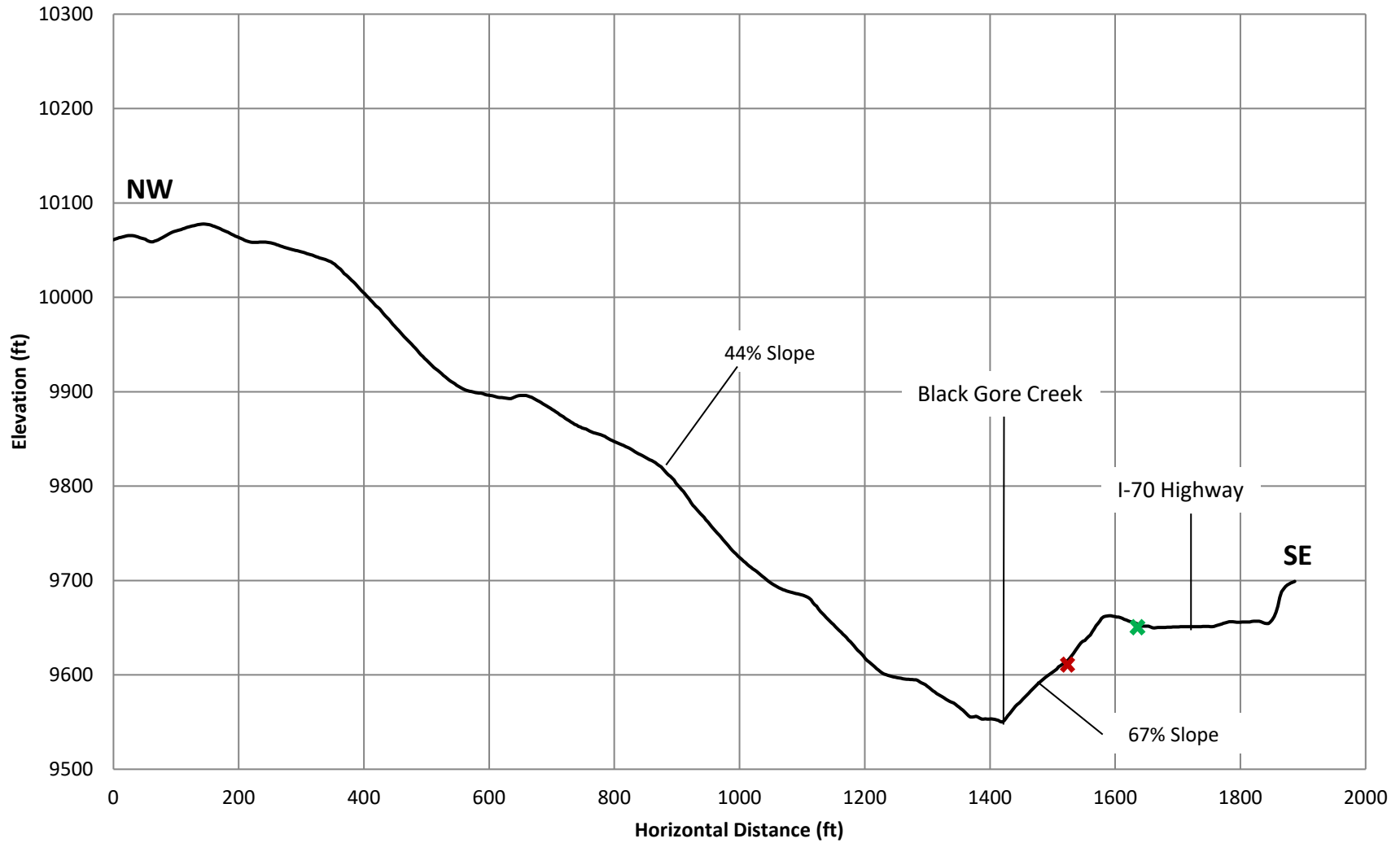
36% Slope

Possible Avalanche Path, crosses landslide deposits



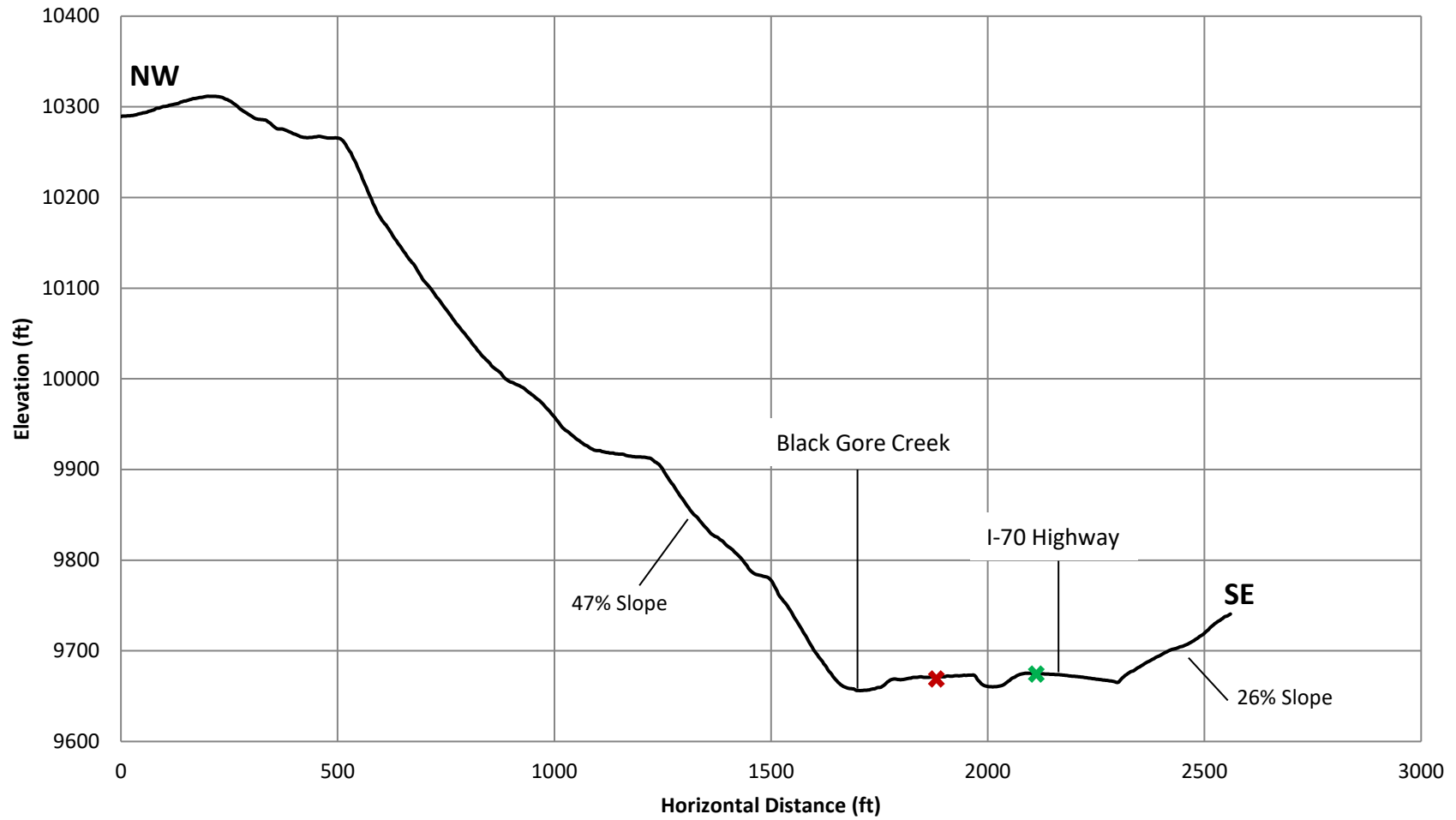
XS-3 Profile Approximately MP 185.4

- ✖ - Approximate location of proposed bike path
- ✖ - Approximate location of existing bike path



XS-4 Profile Approximately MP 185.5

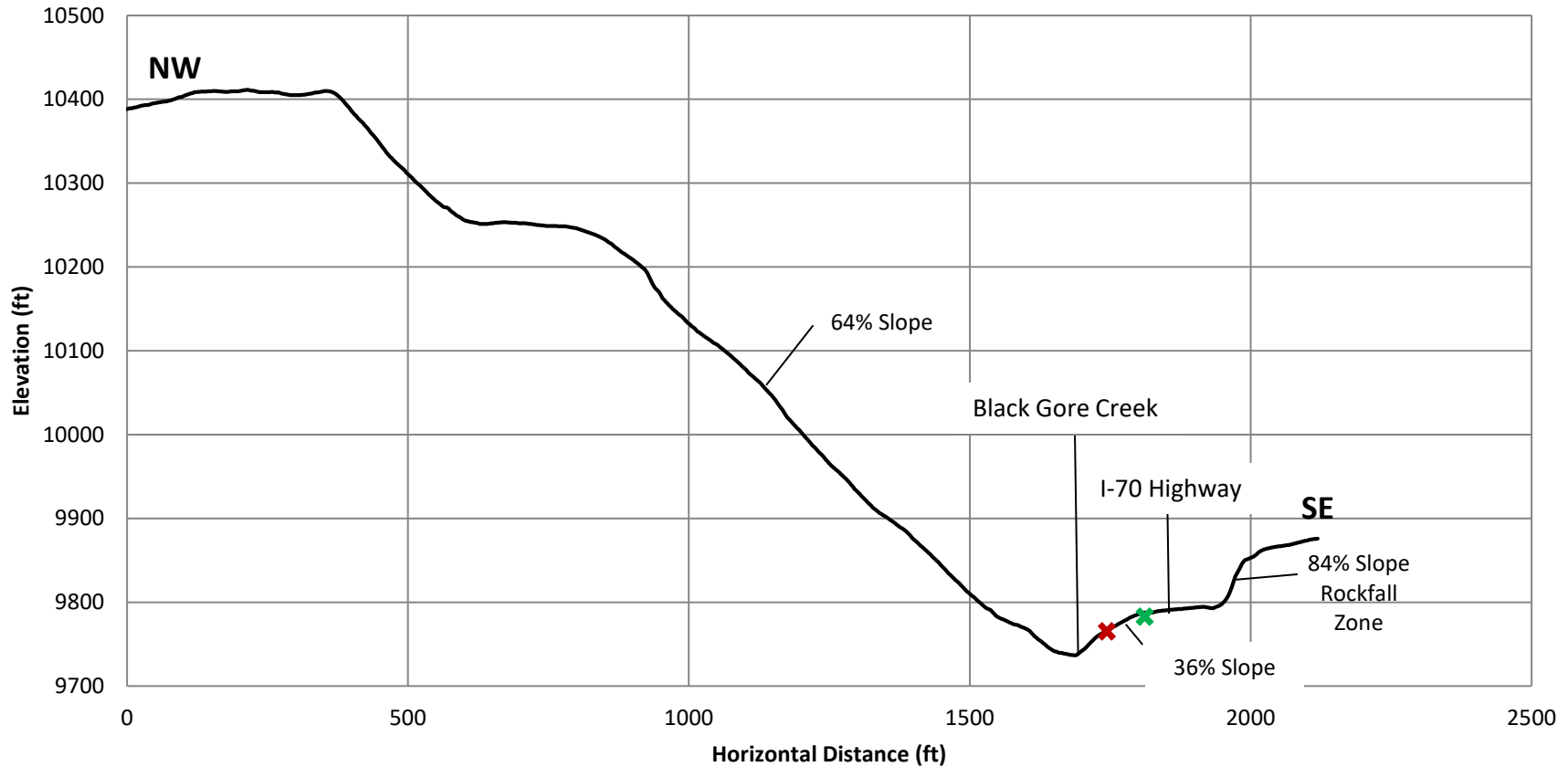
- ✘ - Approximate location of proposed bike path
- ✘ - Approximate location of existing bike path



XS-5 Profile Approximately MP 185.8

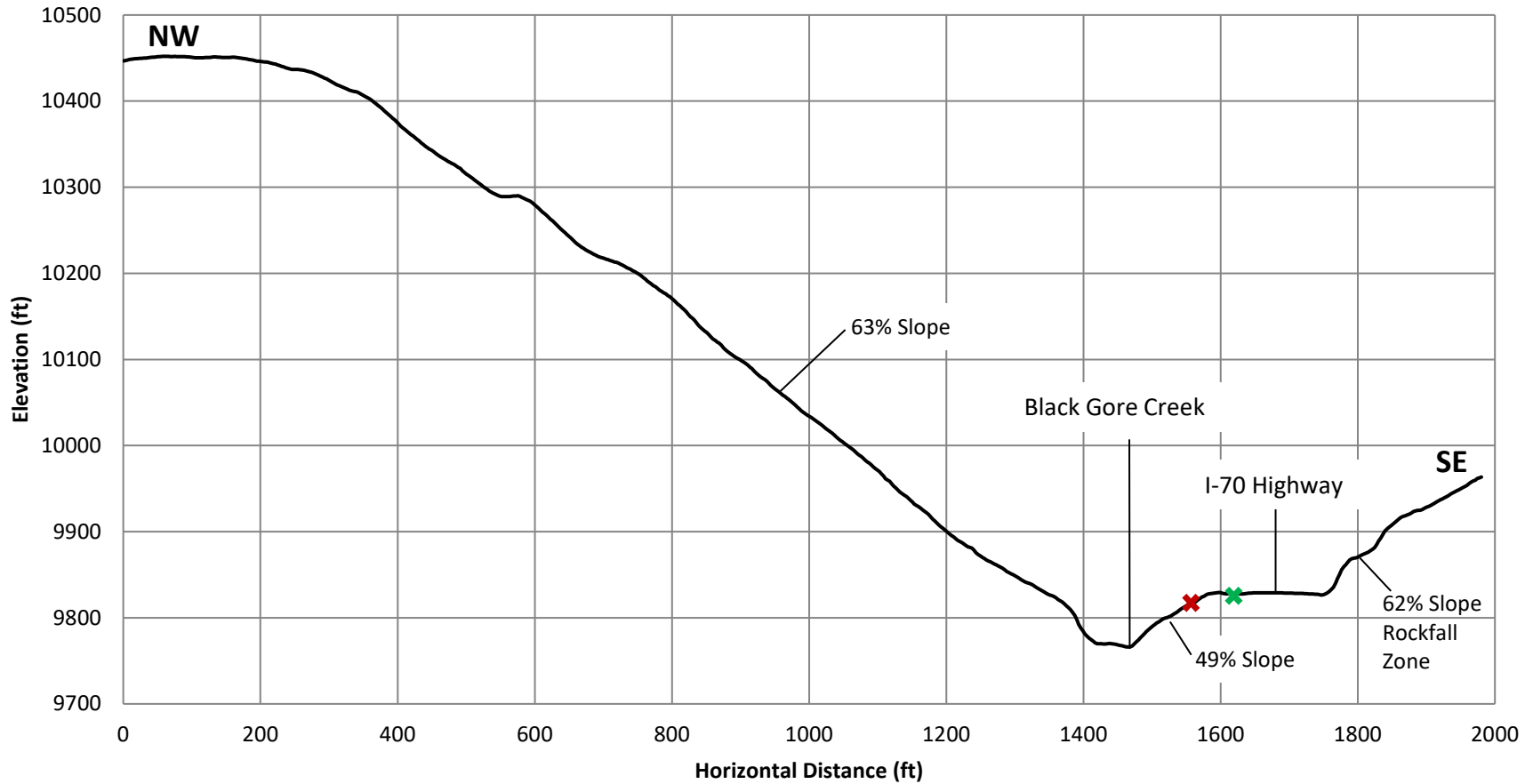
Possible Avalanche Path

- ✘ - Approximate location of proposed bike path
- ✚ - Approximate location of existing bike path



XS-6 Profile Approximately MP 186

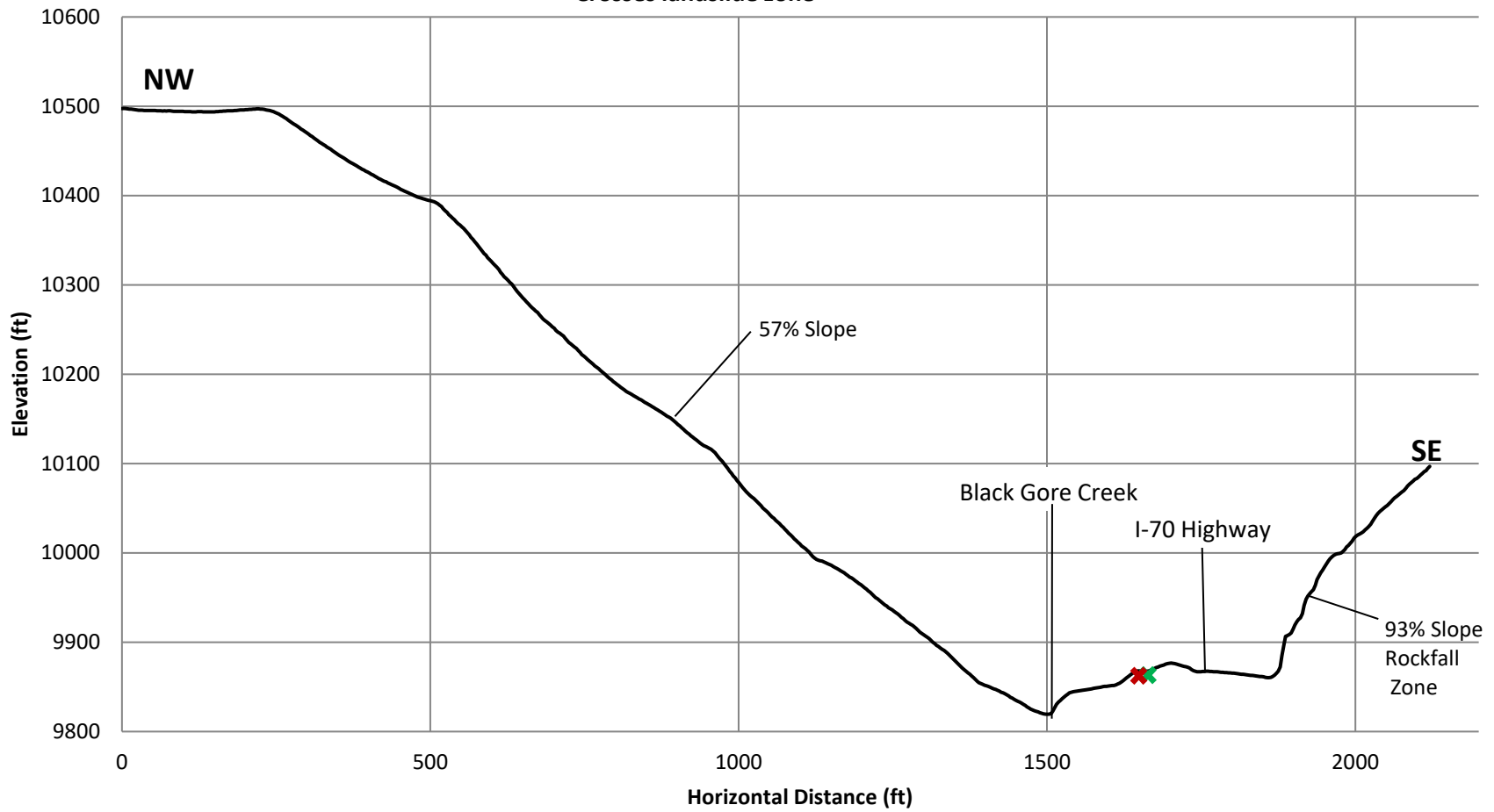
- ✖ - Approximate location of proposed bike path
- ✖ - Approximate location of existing bike path



XS-7 Profile Approximately MP 186.1

Crosses landslide zone

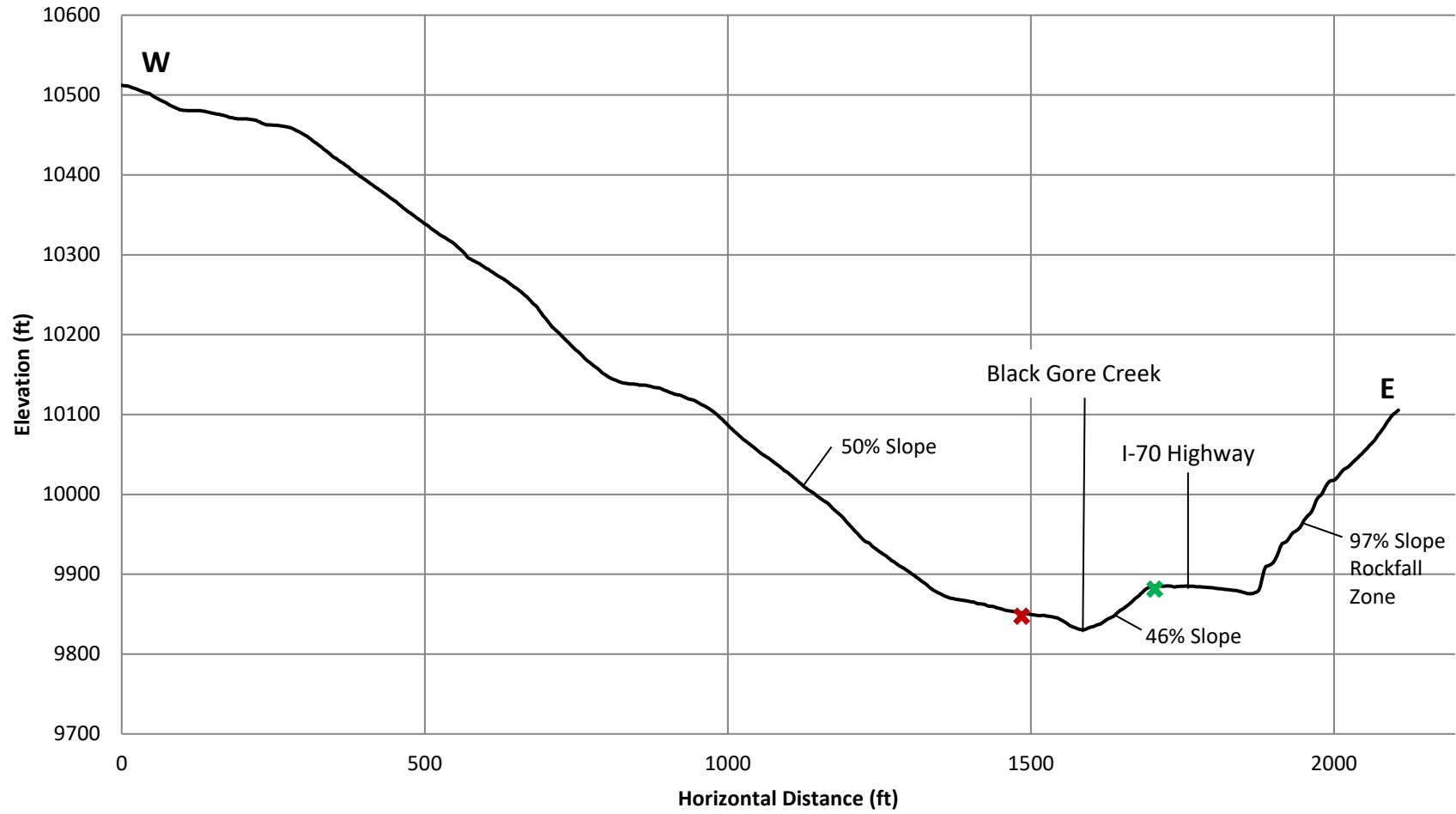
- ✖ - Approximate location of proposed bike path
- ✕ - Approximate location of existing bike path



XS-8 Profile Approximately MP 186.2

Possible Avalanche Path

- ✘ - Approximate location of proposed bike path
- ✘ - Approximate location of existing bike path

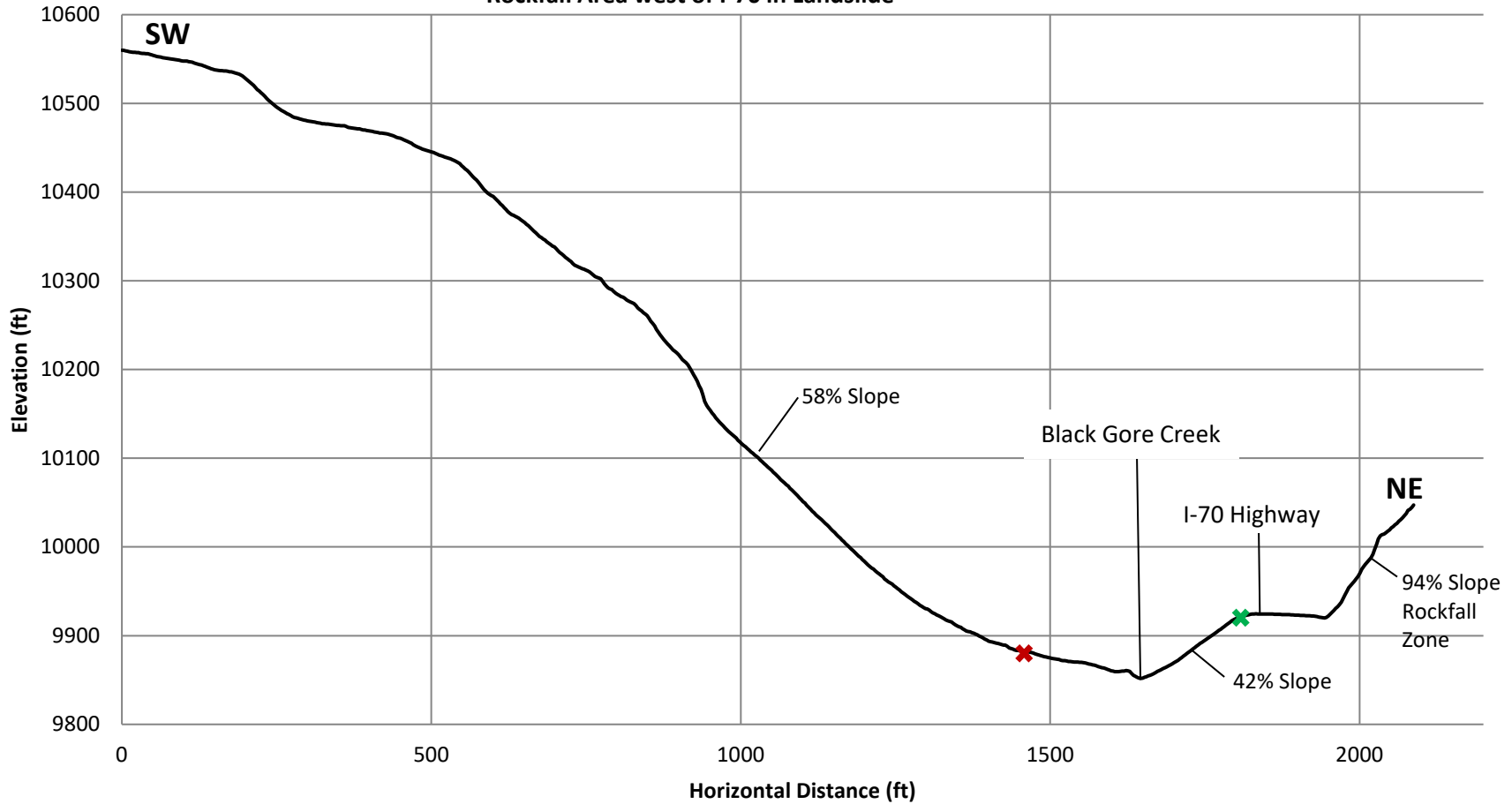


XS-9 Profile Approximately MP 186.3

Rockfall Area west of I-70 in Landslide

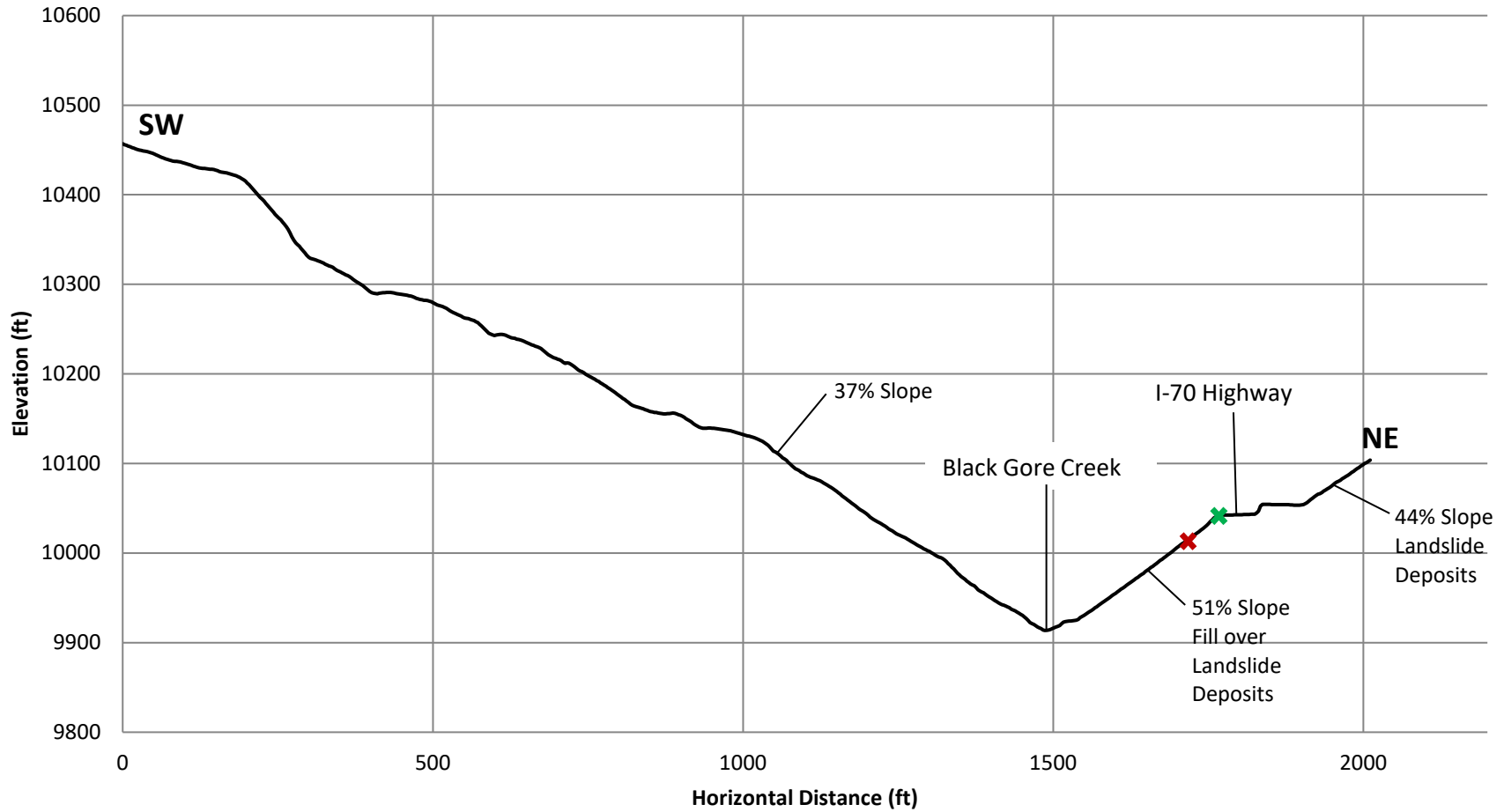
✘ - Approximate location of proposed bike path

✘ - Approximate location of existing bike path



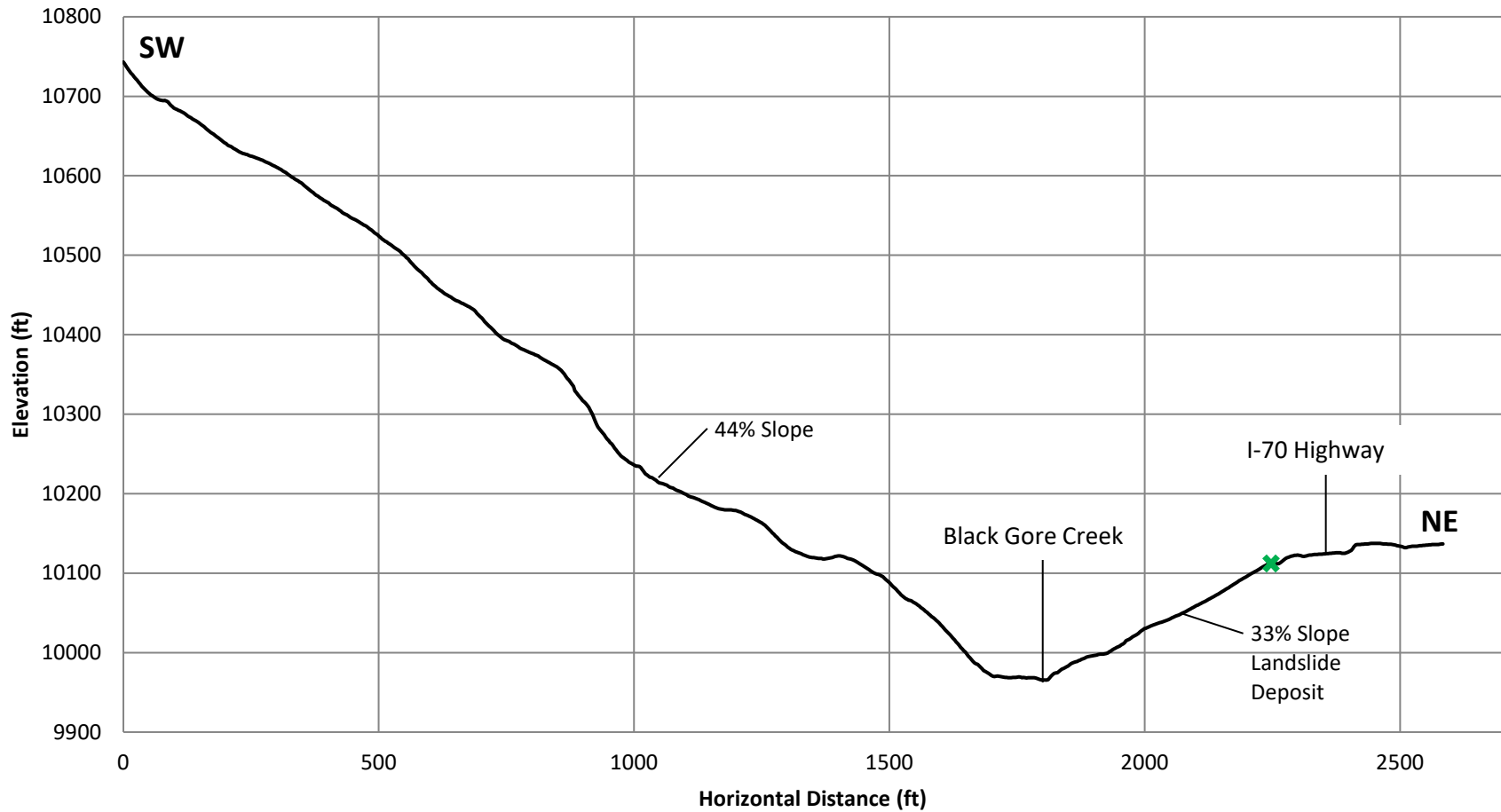
XS-10 Profile Approximately MP 186.7

- ✘ Approximate location of proposed bike path
- ✚ Approximate location of existing bike path



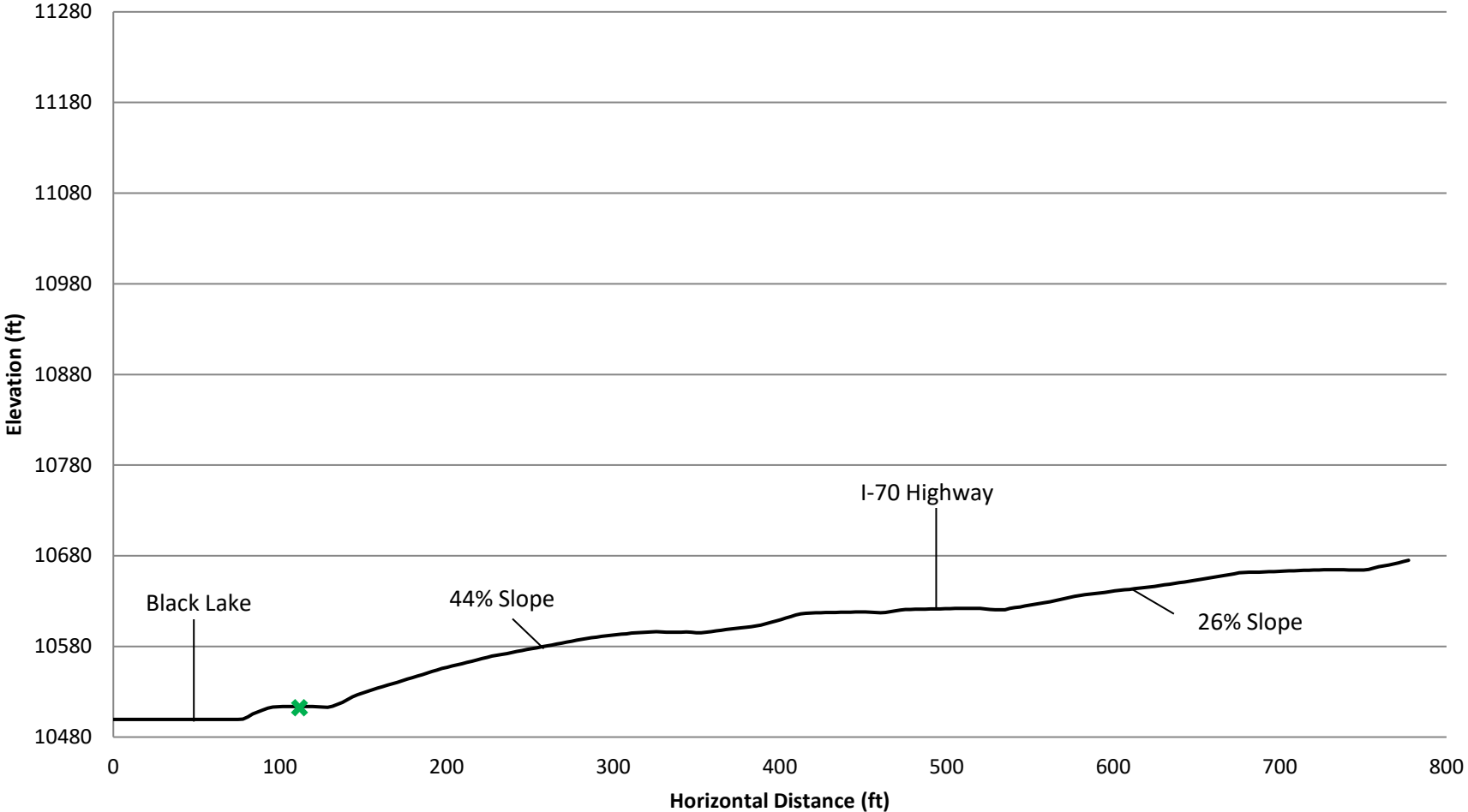
XS-11 Profile Approximately MP 186.95

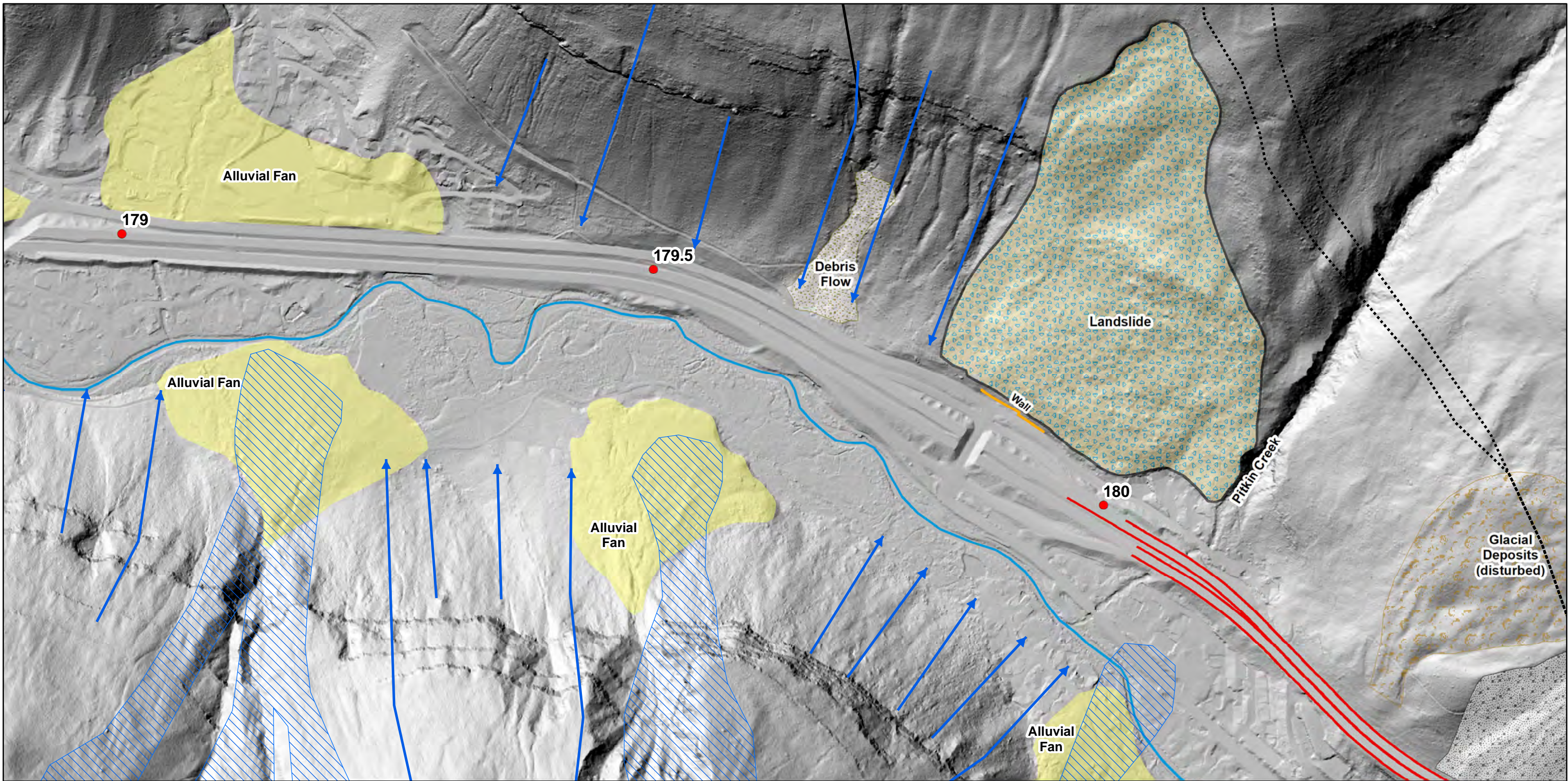
✕ - Approximate location of existing bike path



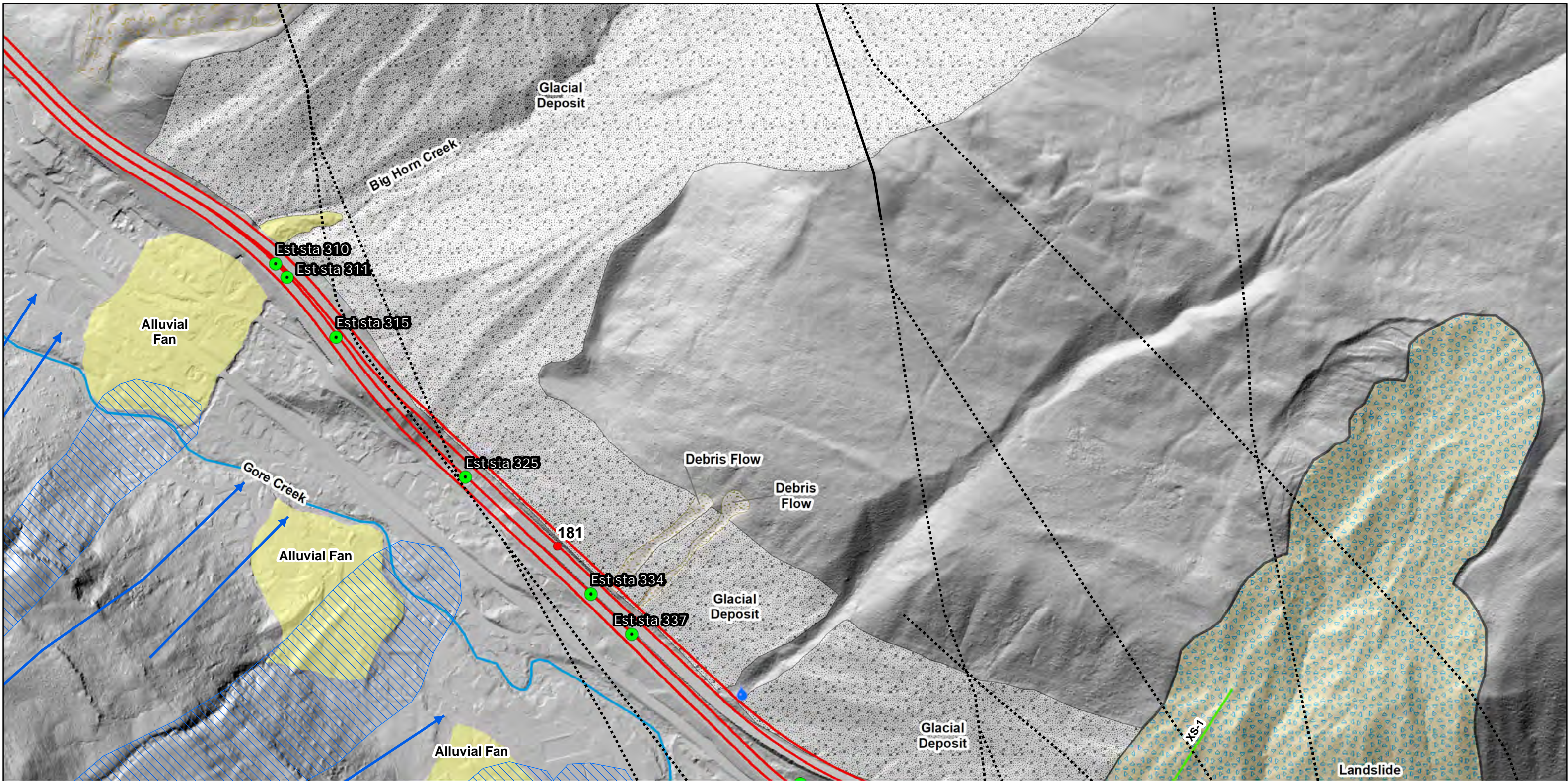
XS-12 Profile Approximately MP 189.5

✕ - Approximate location of existing bike path

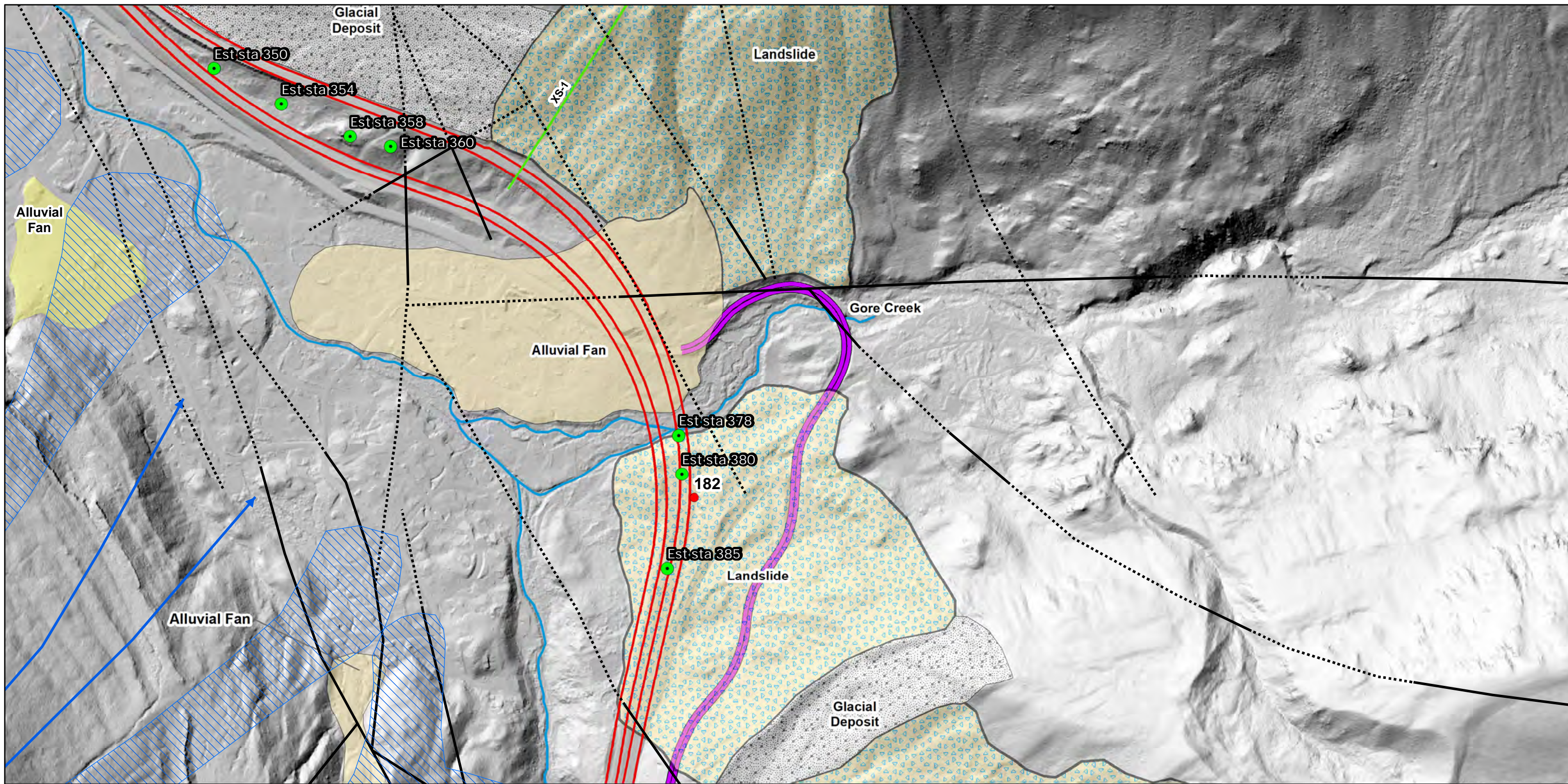




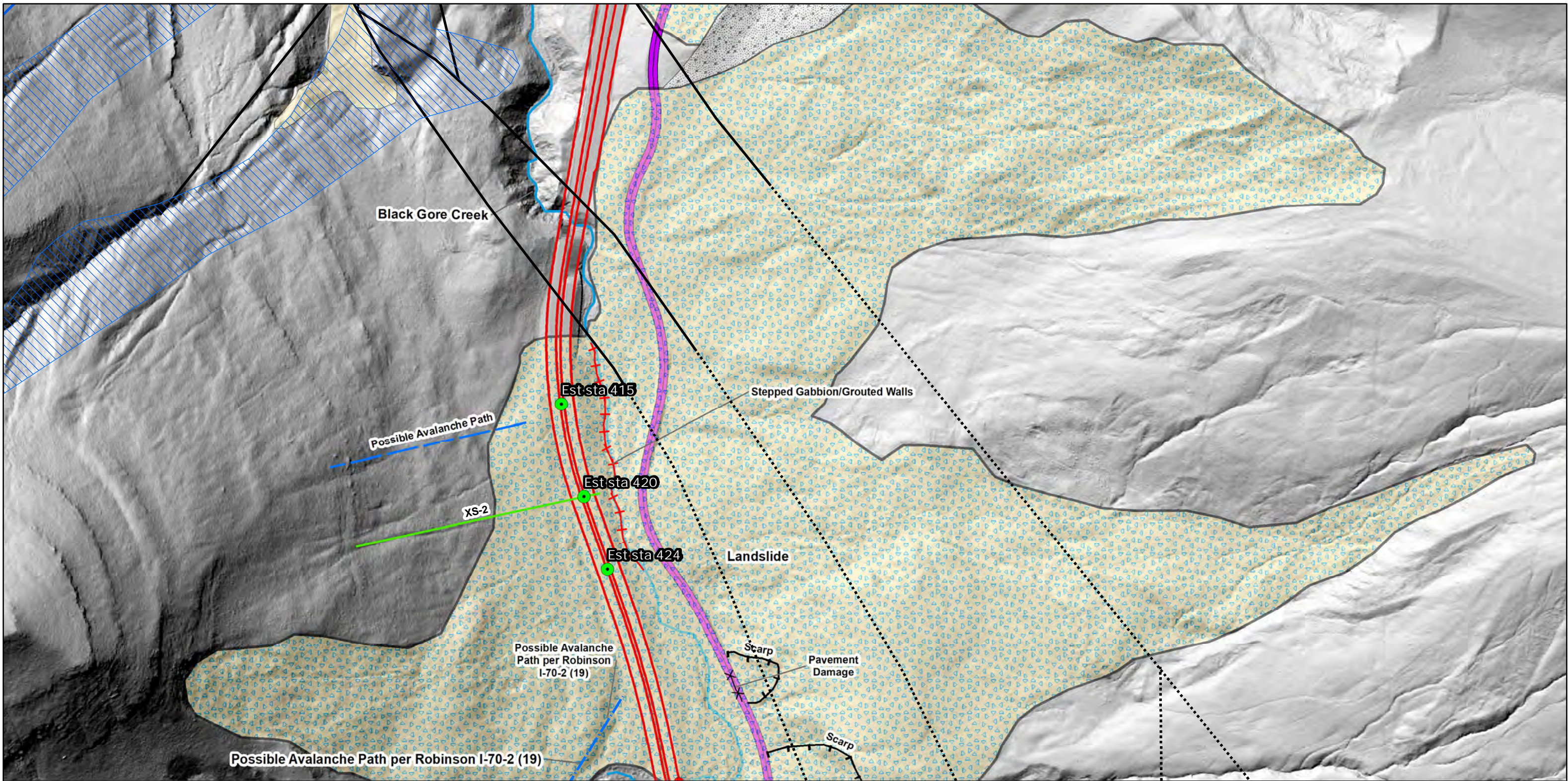
<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment <p><small>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</small></p>		<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) ++ Stepped Gabbion/Grouted Walls — Possible Avalanche Path ×× Pavement Damage — Scarp — Wall — Stream ■ Alluvial Fan ■ Debris Flow ■ Fill Slopes over landslide ■ Fill Slopes over landslide, >30% slope ■ Glacial Deposit ■ Glacial Deposits (disturbed) ■ Rockfall ■ Landslide ■ Sediment Pond ■ Steep Slopes, >30% slope 		<p>Referenced Data</p> <p>CGS Mears, A.I., 1979</p> <ul style="list-style-type: none"> — Small Avalanche Paths — Avalanche Zones <p>Mears, 1979 & Engineertek, 2015</p> <ul style="list-style-type: none"> — Small Avalanche Paths — Avalanche Zones <p>USGS Faults</p> <ul style="list-style-type: none"> — Fault - Certain Fault - Uncertain <p>USGS, Kellogg, et al, 2003</p> <ul style="list-style-type: none"> ■ Alluvial Fan - Revised by Yeh & Associates 		<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p> <p>PLATE 1</p>	
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<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment <p><small>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</small></p>	<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) ++ Stepped Gabbion/Grouted Walls — Possible Avalanche Path ×× Pavement Damage — Scarp — Wall — Stream ■ Alluvial Fan ■ Debris Flow ■ Fill Slopes over landslide ■ Fill Slopes over landslide, >30% slope ■ Glacial Deposit ■ Glacial Deposits (disturbed) ■ Rockfall ■ Landslide ■ Sediment Pond ■ Steep Slopes, >30% slope 	<p>Referenced Data</p> <p>CGS Mears, A.I., 1979</p> <ul style="list-style-type: none"> → Small Avalanche Paths → Avalanche Zones <p>Mears, 1979 & Engineertek, 2015</p> <ul style="list-style-type: none"> → Avalanche Zones <p>USGS Faults</p> <ul style="list-style-type: none"> — Fault - Certain ···· Fault - Uncertain <p>USGS, Kellogg, et al, 2003</p> <ul style="list-style-type: none"> ■ Alluvial Fan - Revised by Yeh & Associates 	<p>N</p>	<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p> <p>PLATE 2</p>
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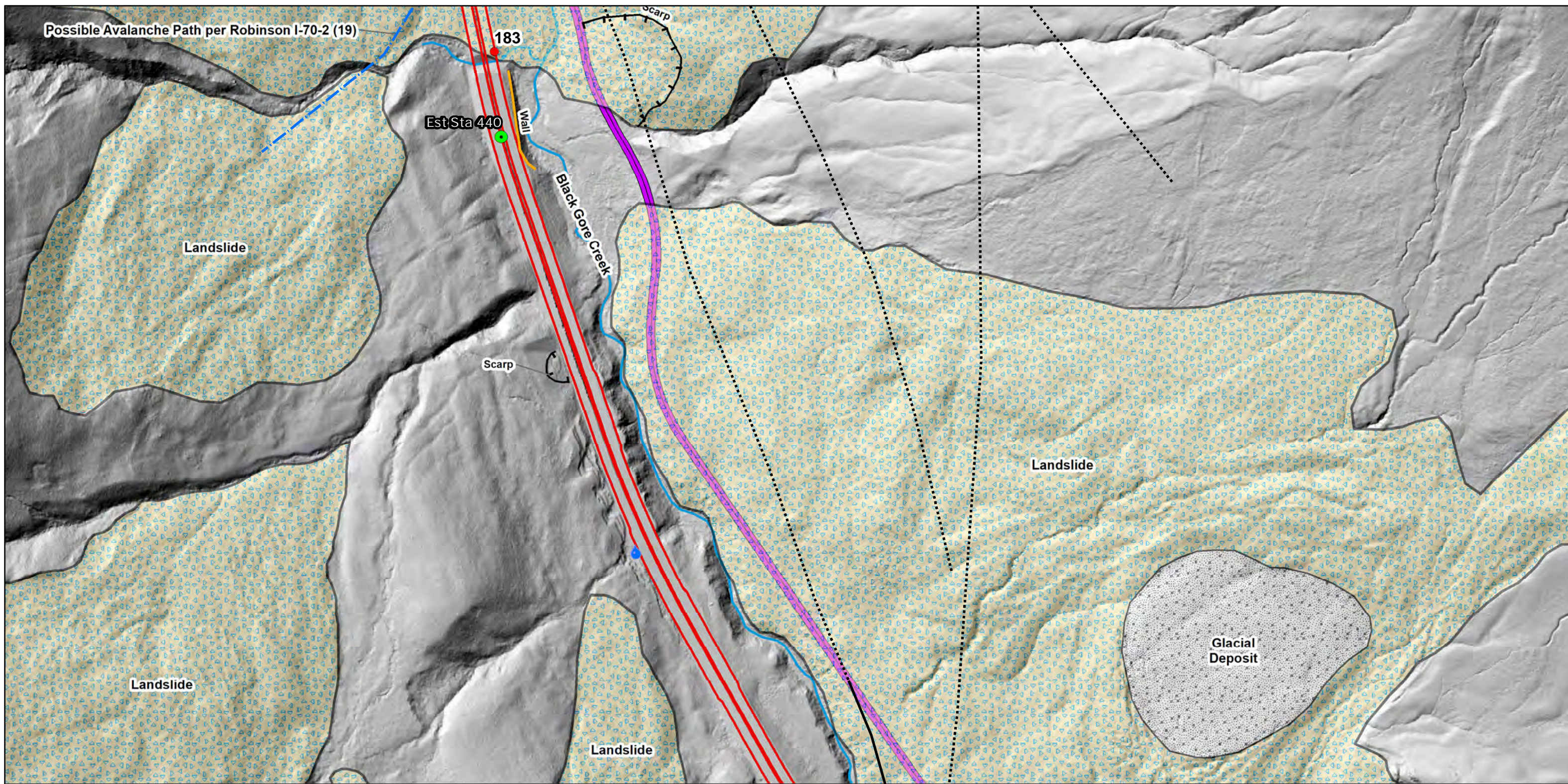


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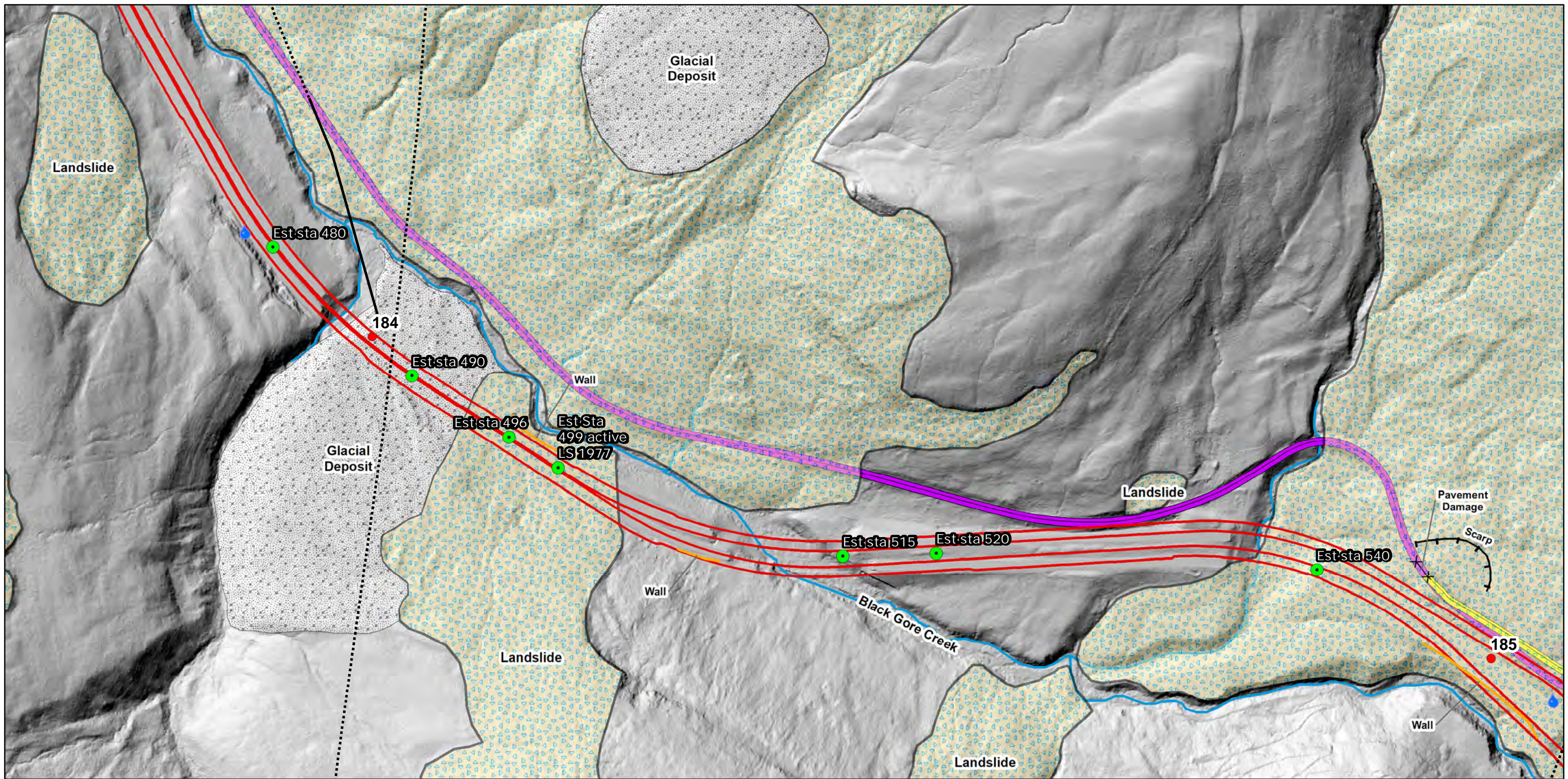


<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment 		<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) — Stepped Gabbion/Grouted Walls — Possible Avalanche Path — Pavement Damage — Scarp — Wall — Stream 		<p>Referenced Data</p> <ul style="list-style-type: none"> — Alluvial Fan — Debris Flow — Fill Slopes over landslide — Fill Slopes over landslide, >30% slope — Glacial Deposit — Glacial Deposits (disturbed) — Rockfall — Landslide — Sediment Pond — Steep Slopes, >30% slope 		<p>Referenced Data</p> <ul style="list-style-type: none"> — CDOT Robinson Avalanche Path — CDOT Robinson Avalanche Path — CGS Mears, A.I., 1979 — Small Avalanche Paths — Mears, 1979 & Engineertek, 2015 — USGS Avalanches — USGS Faults — Fault - Certain — Fault - Uncertain 		<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>N</p> <p>USGS, Kellogg, et al, 2003</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p>		<p>PLATE</p> <p>4</p>
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2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT



<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment 		<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) ++ Stepped Gabion/Grouted Walls — Possible Avalanche Path ✕✕ Pavement Damage — Scarp — Wall — Stream 		<p>Referenced Data</p> <ul style="list-style-type: none"> Alluvial Fan Debris Flow Fill Slopes over landslide Fill Slopes over landslide, >30% slope Glacial Deposit Glacial Deposits (disturbed) Rockfall Landslide Sediment Pond Steep Slopes, >30% slope 		<p>Referenced Data</p> <ul style="list-style-type: none"> CDOT Robinson Avalanche Path CDOT Robinson Avalanche Path CGS Mears, A.I., 1979 Small Avalanche Paths Mears, 1979 & Engineertek, 2015 Avalanche Zones USGS Faults Fault - Certain Fault - Uncertain 		<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>N</p> <p>USGS, Kellogg, et al, 2003</p> <p>Aluvial Fan - Revised by Yeh & Associates</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p>		<p>Project Name: West Vail Pass Task Order #2</p>	<p>PLATE</p>
<p>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</p>						<p>Project Number: 217-520</p>		<p>Date: January 2020</p>		<p>5</p>	



Infrastructure

- Approximate Mileposts
- Approximate Stations
- Proposed I-70 Alignment
- Proposed Bike Path Alignment
- Existing Bike Path Alignment

2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT

Yeh Collected Field Data

- Seeps
- Cross Sections (XS-1, etc.)
- ++ Stepped Gabbion/Grouted Walls
- Possible Avalanche Path
- X-X Pavement Damage
- Scarp
- Wall
- Stream
- Alluvial Fan
- Debris Flow
- Fill Slopes over landslide
- Fill Slopes over landslide, >30% slope
- Glacial Deposit
- Glacial Deposits (disturbed)
- Rockfall
- Landslide
- Sediment Pond
- Steep Slopes, >30% slope

Referenced Data

CGS Mears, A.I., 1979

- Small Avalanche Paths
- Mears, 1979 & Engineertek, 2015
- Avalanche Zones

USGS Faults

- Fault - Certain
- Fault - Uncertain

USGS, Kellogg, et al, 2003

- Alluvial Fan - Revised by Yeh & Associates

0 187.5 375 750 1,125 1,500 Feet

Yeh and Associates, Inc.
Geotechnical • Geological • Construction Services

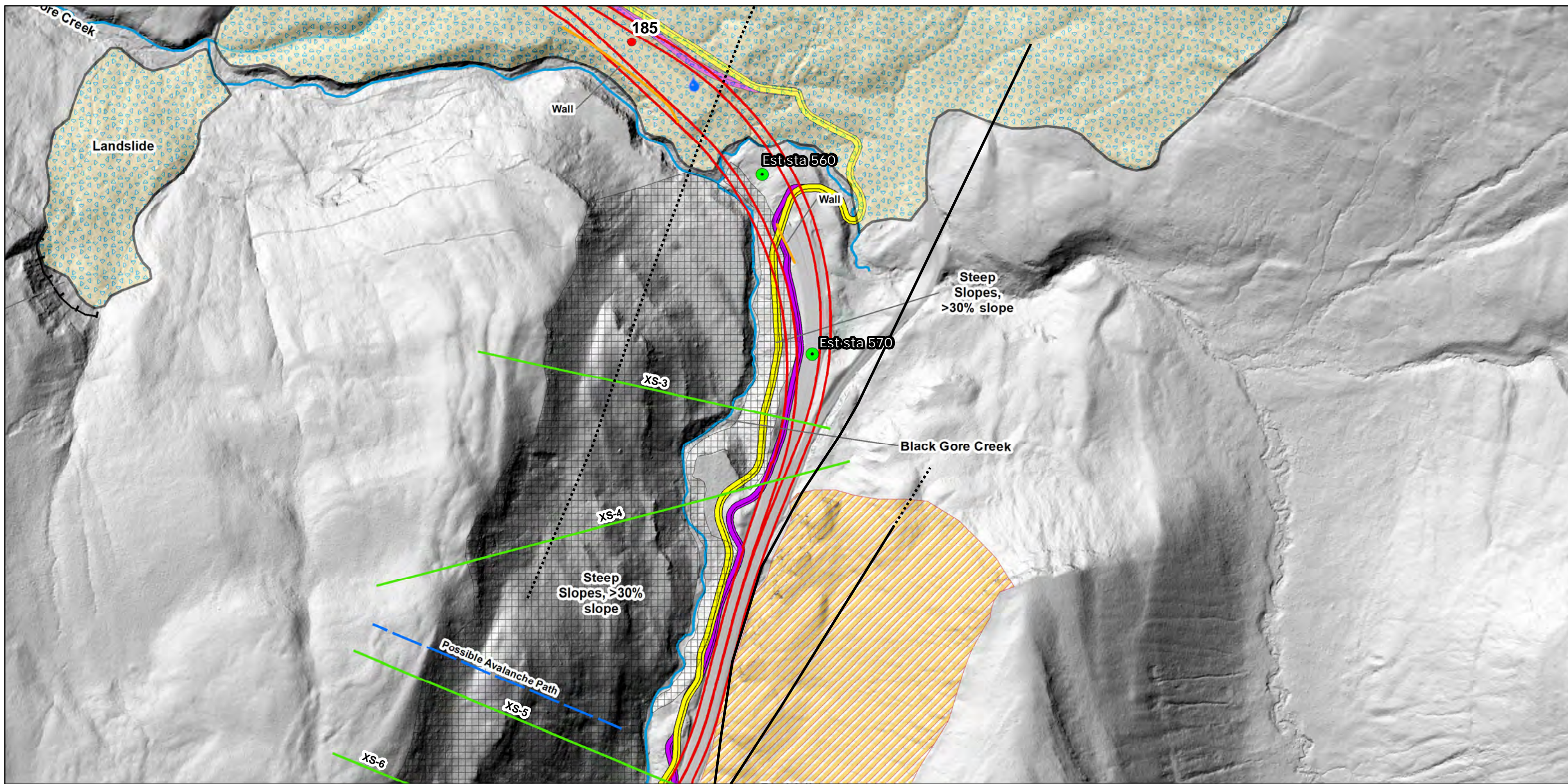
West Vail Pass Geohazard Maps

Project Name: West Vail Pass Task Order #2

Project Number: 217-520

Date: January 2020

PLATE
6



Infrastructure

- Approximate Mileposts
- Approximate Stations
- Proposed I-70 Alignment
- Proposed Bike Path Alignment
- Existing Bike Path Alignment

2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT

Yeh Collected Field Data

- Seeps
- Cross Sections (XS-1, etc.)
- ++ Stepped Gabion/Grouted Walls
- Possible Avalanche Path
- ×× Pavement Damage
- Scarp
- Wall
- Stream
- Alluvial Fan
- Debris Flow
- Fill Slopes over landslide
- Fill Slopes over landslide, >30% slope
- Glacial Deposit
- Glacial Deposits (disturbed)
- Rockfall
- Landslide
- Sediment Pond
- Steep Slopes, >30% slope

Referenced Data

CGS Mears, A.I., 1979

- Small Avalanche Paths
- Mears, 1979 & Engineertek, 2015
- Avalanche Zones

USGS Faults

- Fault - Certain
- Fault - Uncertain

USGS, Kellogg, et al, 2003

- Alluvial Fan - Revised by Yeh & Associates

0 187.5 375 750 1,125 1,500 Feet

Yeh and Associates, Inc.
Geotechnical • Geological • Construction Services

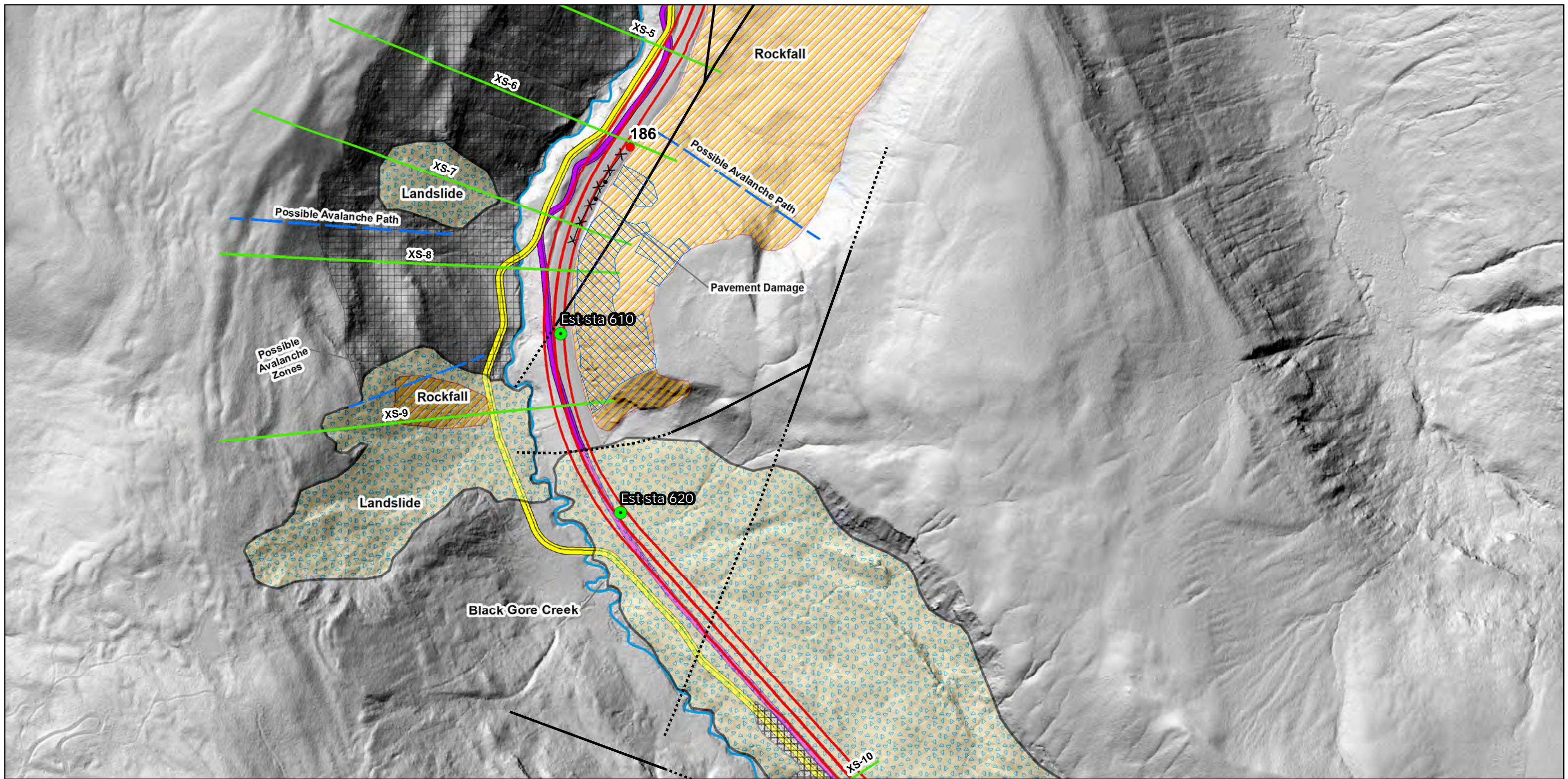
West Vail Pass Geohazard Maps

Project Name: West Vail Pass Task Order #2

Project Number: 217-520

Date: January 2020

PLATE 7



Infrastructure

- Approximate Mileposts
- Approximate Stations
- Proposed I-70 Alignment
- Proposed Bike Path Alignment
- Existing Bike Path Alignment

2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT

Yeh Collected Field Data

● Seeps	■ Alluvial Fan	■ Glacial Deposits (disturbed)
— Cross Sections (XS-1, etc.)	■ Debris Flow	■ Rockfall
++ Stepped Gabbion/Grouted Walls	■ Fill Slopes over landslide	■ Landslide
— Possible Avalanche Path	■ Fill Slopes over landslide, >30% slope	■ Sediment Pond
X-X Pavement Damage	■ Glacial Deposit	■ Steep Slopes, >30% slope
— Scarp		
— Wall		
— Stream		

Referenced Data

- CDOT Frost Heave, 2016
- CGS Mears, A.I., 1979
- Small Avalanche Paths
- Mears, 1979 & Engineertek, 2015
- Avalanche Zones

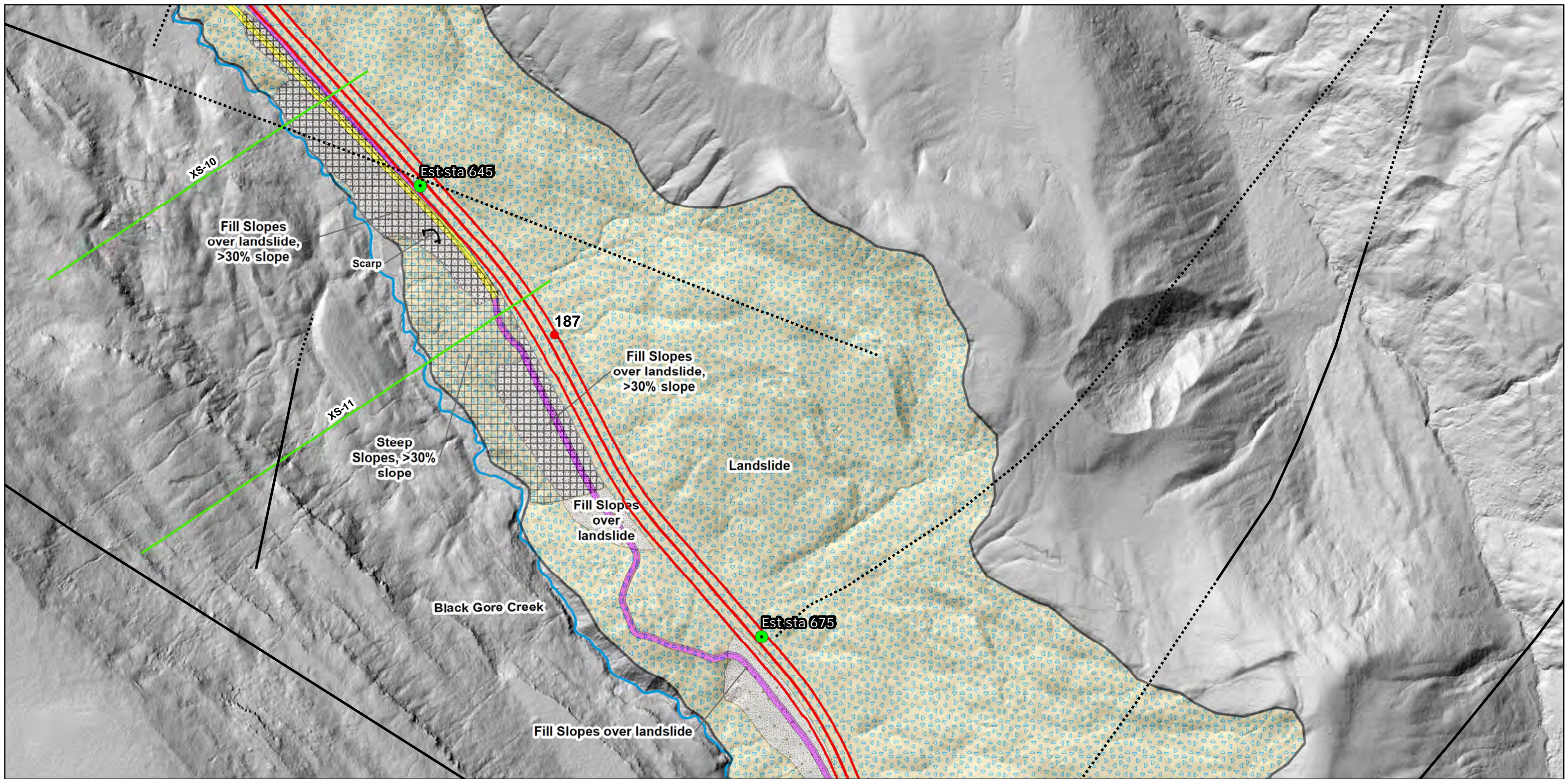
USGS Faults

- Fault - Certain
- Fault - Uncertain

USGS, Kellog, et al, 2003

- Alluvial Fan - Revised by Yeh & Associates

		<p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p>
	<p>West Vail Pass Geohazard Maps</p>	
<p>Project Name: West Vail Pass Task Order #2</p>	<p>Project Number: 217-520</p>	<p>Date: January 2020</p>
		<p>PLATE</p> <p>8</p>



Infrastructure

- Approximate Mileposts
- Approximate Stations
- Proposed I-70 Alignment
- Proposed Bike Path Alignment
- Existing Bike Path Alignment

2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT

Yeh Collected Field Data

- Seeps
- Cross Sections (XS-1, etc.)
- ++ Stepped Gabbion/Grouted Walls
- Possible Avalanche Path
- ×× Pavement Damage
- Scarp
- Wall
- Stream
- Alluvial Fan
- Debris Flow
- Fill Slopes over landslide
- Fill Slopes over landslide, >30% slope
- Glacial Deposit
- Glacial Deposits (disturbed)
- Rockfall
- Landslide
- Sediment Pond
- Steep Slopes, >30% slope

Referenced Data

CGS Mears, A.I., 1979

- Small
- Avalanche Paths
- Mears, 1979 & Engineertek, 2015
- Avalanche Zones

USGS Faults

- Fault - Certain
- Fault - Uncertain

USGS, Kellogg, et al, 2003

- Alluvial Fan - Revised by Yeh & Associates

0 187.5 375 750 1,125 1,500 Feet

Yeh and Associates, Inc.
Geotechnical • Geological • Construction Services

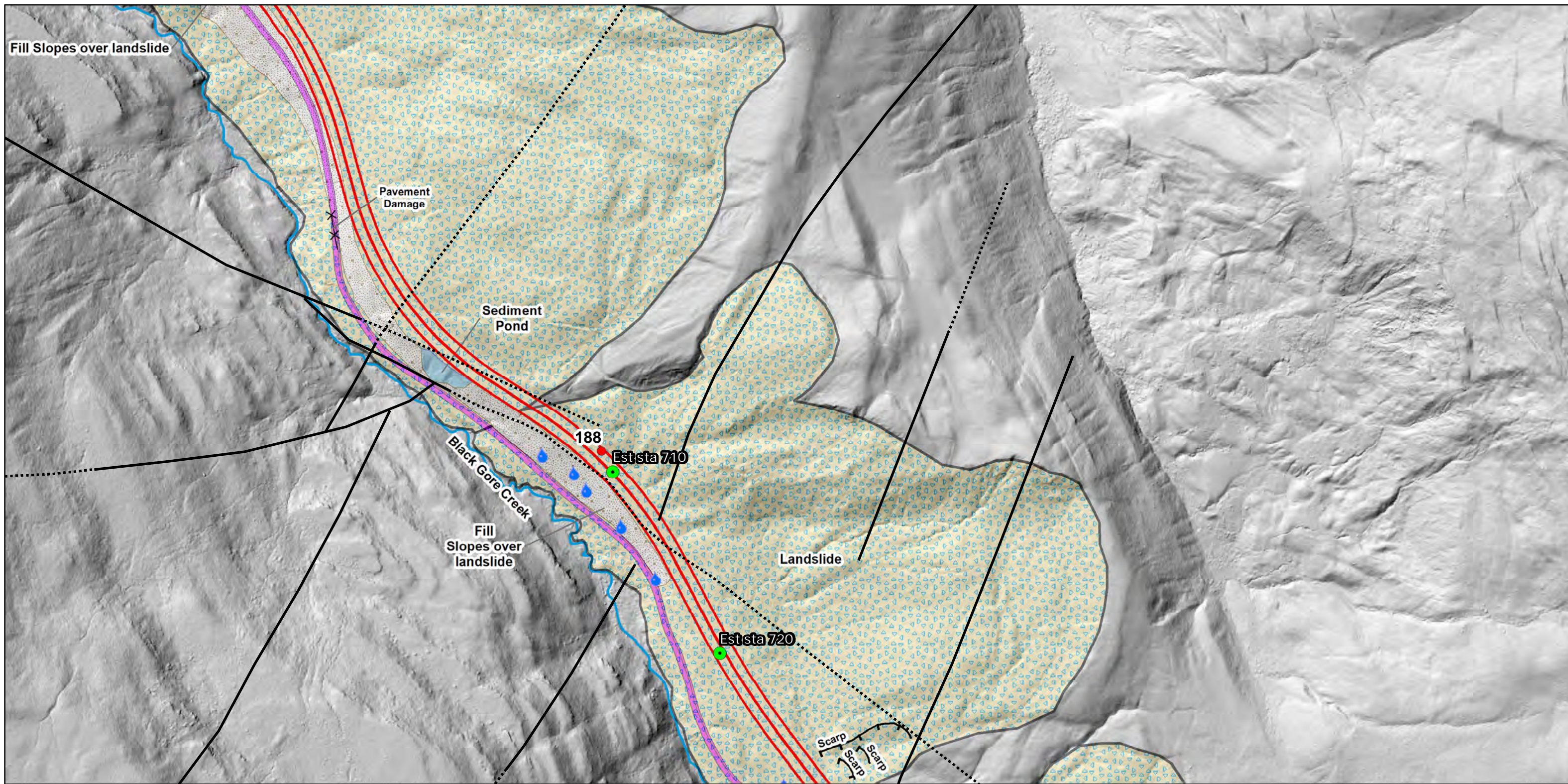
West Vail Pass Geohazard Maps

Project Name: West Vail Pass Task Order #2

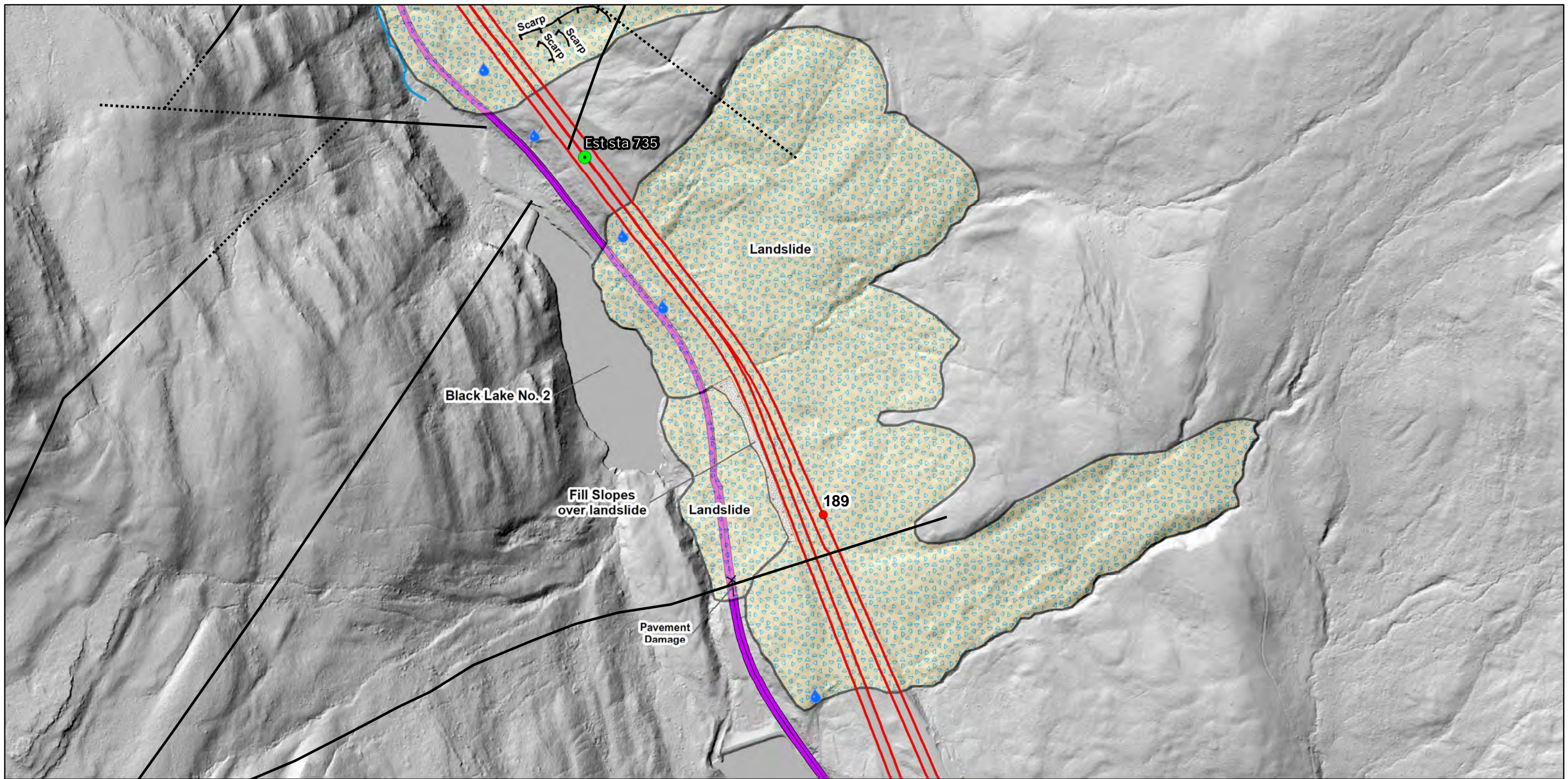
Project Number: 217-520

Date: January 2020

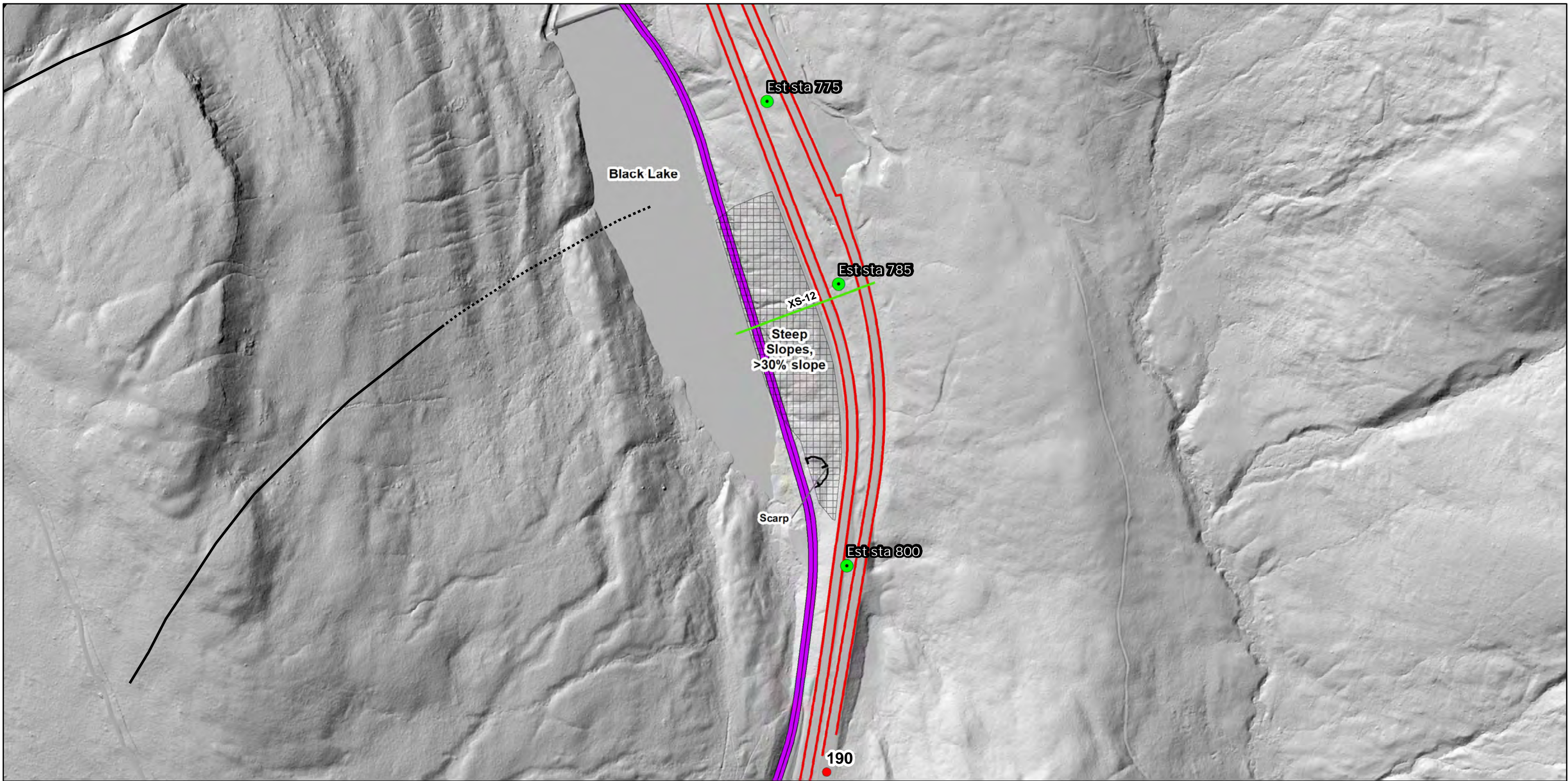
PLATE 9



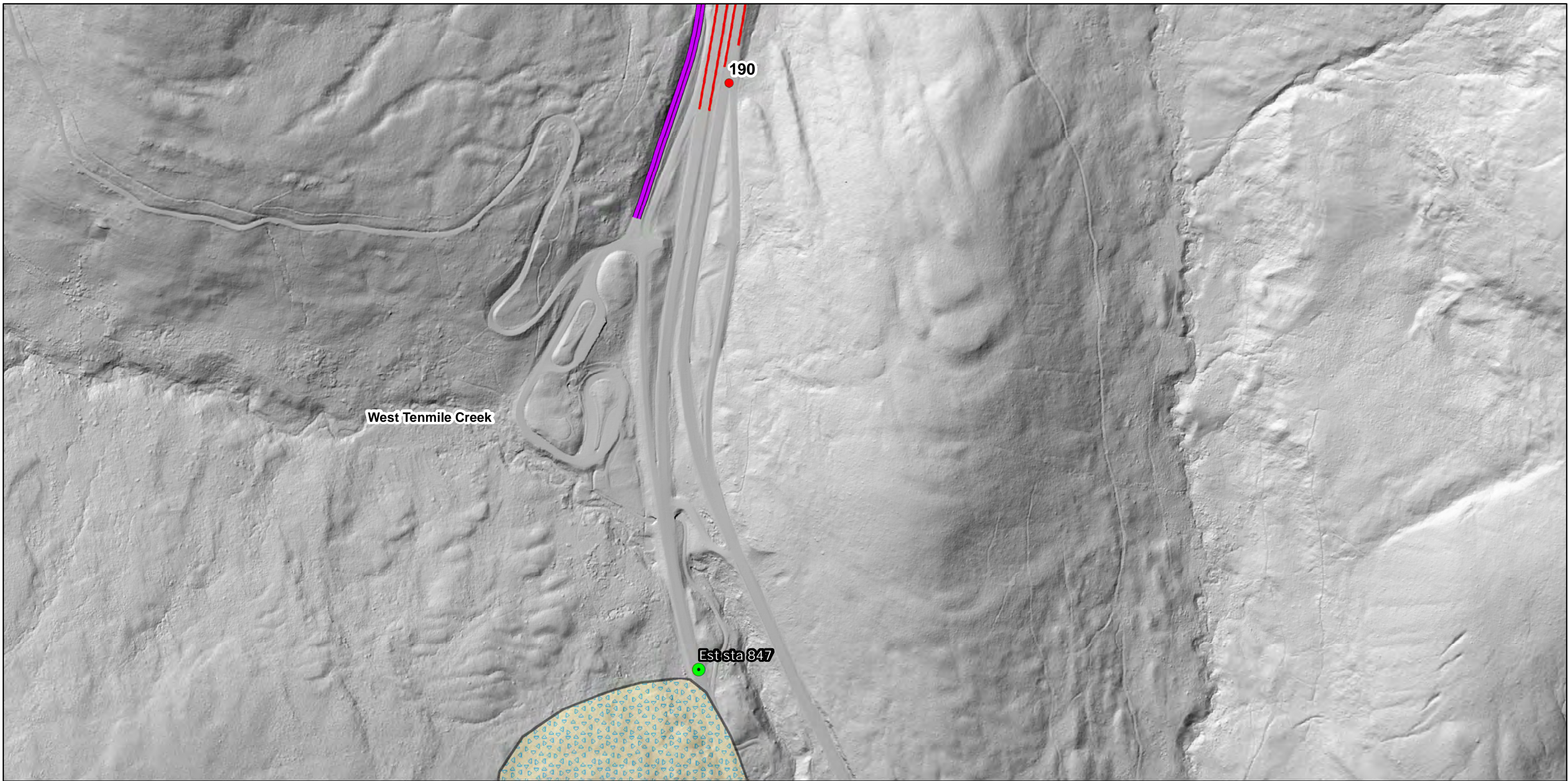
<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment <p><small>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</small></p>		<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) ++ Stepped Gabion/Grouted Walls — Possible Avalanche Path ×× Pavement Damage — Scarp — Wall — Stream ■ Alluvial Fan ■ Debris Flow ■ Fill Slopes over landslide ■ Fill Slopes over landslide, >30% slope ■ Glacial Deposit ■ Glacial Deposits (disturbed) ■ Rockfall ■ Landslide ■ Sediment Pond ■ Steep Slopes, >30% slope 		<p>Referenced Data</p> <ul style="list-style-type: none"> CGS Mears, A.I., 1979 <ul style="list-style-type: none"> Small → Avalanche Paths Mears, 1979 & Engineertek, 2015 <ul style="list-style-type: none"> → Avalanche Zones USGS Faults <ul style="list-style-type: none"> — Fault - Certain Fault - Uncertain USGS, Kellogg, et al, 2003 <ul style="list-style-type: none"> ■ Alluvial Fan - Revised by Yeh & Associates 		<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p> <p>PLATE 10</p>	
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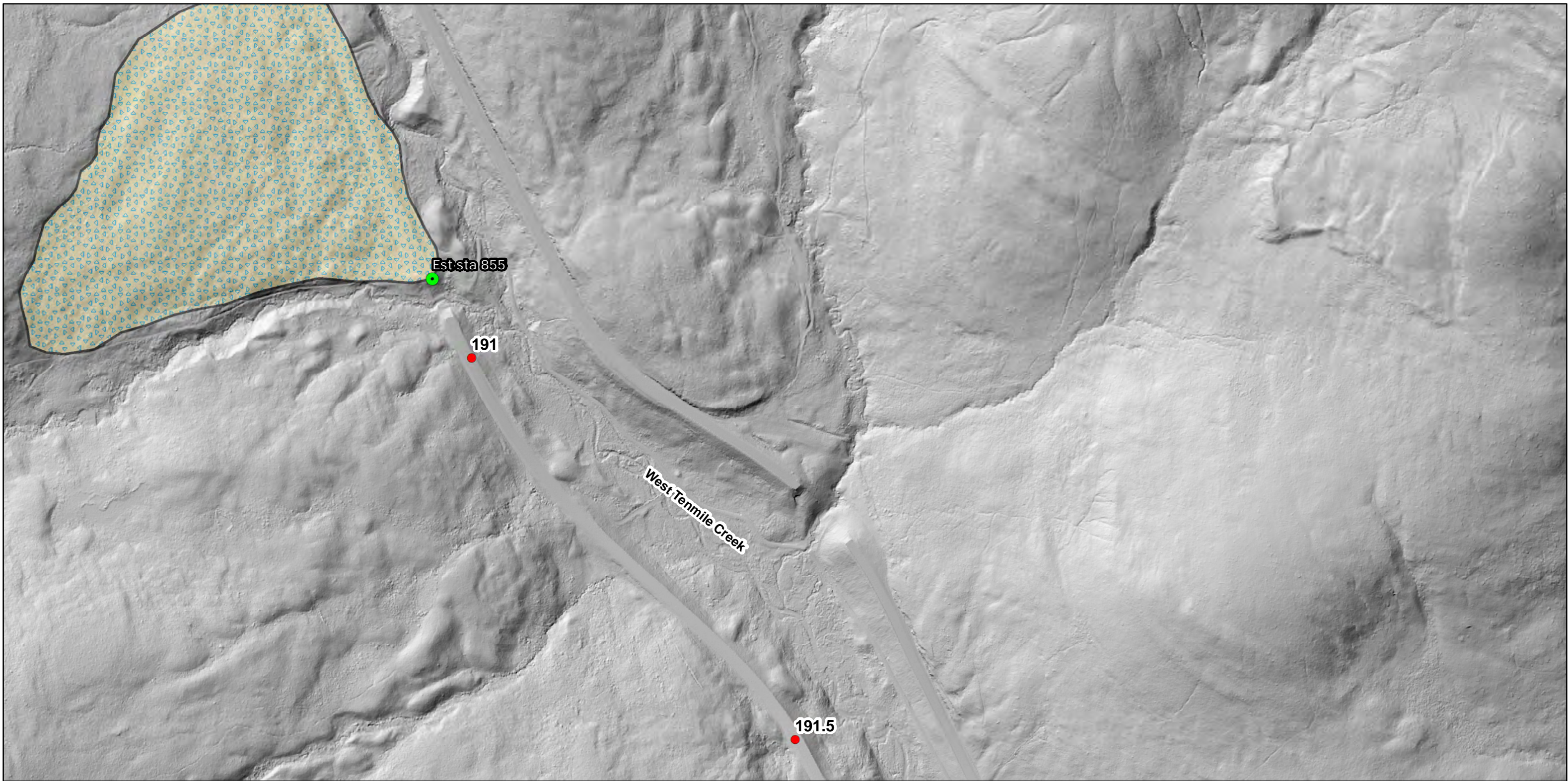
<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment <p><small>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</small></p>	<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) ++ Stepped Gabbion/Grouted Walls — Possible Avalanche Path ×× Pavement Damage — Scarp — Wall — Stream ■ Alluvial Fan ■ Debris Flow ■ Fill Slopes over landslide ■ Fill Slopes over landslide, >30% slope ■ Glacial Deposit ■ Glacial Deposits (disturbed) ■ Rockfall ■ Landslide ■ Sediment Pond ■ Steep Slopes, >30% slope 	<p>Referenced Data</p> <p>CGS Mears, A.I., 1979</p> <ul style="list-style-type: none"> → Small Avalanche Paths → Avalanche Zones <p>Mears, 1979 & Engineertek, 2015</p> <ul style="list-style-type: none"> → Small Avalanche Paths → Avalanche Zones <p>USGS Faults</p> <ul style="list-style-type: none"> — Fault - Certain Fault - Uncertain <p>USGS, Kellogg, et al, 2003</p> <ul style="list-style-type: none"> ■ Alluvial Fan - Revised by Yeh & Associates 	<p>N</p>	<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p> <p>PLATE 11</p>
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<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment <p><small>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</small></p>	<p>Yeh Collected Field Data</p> <ul style="list-style-type: none"> ● Seeps — Cross Sections (XS-1, etc.) ++ Stepped Gabbion/Grouted Walls — Possible Avalanche Path — Pavement Damage — Scarp — Wall — Stream ■ Alluvial Fan ■ Debris Flow ■ Fill Slopes over landslide ■ Fill Slopes over landslide, >30% slope ■ Glacial Deposit ■ Glacial Deposits (disturbed) ■ Rockfall ■ Landslide ■ Sediment Pond ■ Steep Slopes, >30% slope 	<p>Referenced Data</p> <p>CGS Mears, A.I., 1979</p> <ul style="list-style-type: none"> — Small Avalanche Paths — Mears, 1979 & Engineertek, 2015 — Avalanche Zones <p>USGS Faults</p> <ul style="list-style-type: none"> — Fault - Certain — Fault - Uncertain <p>USGS, Kellogg, et al, 2003</p> <ul style="list-style-type: none"> ■ Alluvial Fan - Revised by Yeh & Associates 	<p>N</p>	<p>0 187.5 375 750 1,125 1,500 Feet</p> <p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p> <p>PLATE 12</p>
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<p>Infrastructure</p> <ul style="list-style-type: none"> ● Approximate Mileposts ● Approximate Stations — Proposed I-70 Alignment — Proposed Bike Path Alignment — Existing Bike Path Alignment <p><small>2016 LiDAR compilation using 2008 LiDAR hillshade basemap from Eagle County/CDOT</small></p>		<p>Yeh Collected Field Data</p> <table border="0"> <tr> <td>💧 Seeps</td> <td> Alluvial Fan</td> <td> Glacial Deposits (disturbed)</td> </tr> <tr> <td>— Cross Sections (XS-1, etc.)</td> <td> Debris Flow</td> <td> Rockfall</td> </tr> <tr> <td>++ Stepped Gabbion/Grouted Walls</td> <td> Fill Slopes over landslide</td> <td> Landslide</td> </tr> <tr> <td>— Possible Avalanche Path</td> <td> Fill Slopes over landslide, >30% slope</td> <td> Sediment Pond</td> </tr> <tr> <td>X-X Pavement Damage</td> <td> Glacial Deposit</td> <td> Steep Slopes, >30% slope</td> </tr> <tr> <td>— Scarp</td> <td></td> <td></td> </tr> <tr> <td>— Wall</td> <td></td> <td></td> </tr> <tr> <td>— Stream</td> <td></td> <td></td> </tr> </table>		💧 Seeps	 Alluvial Fan	 Glacial Deposits (disturbed)	— Cross Sections (XS-1, etc.)	 Debris Flow	 Rockfall	++ Stepped Gabbion/Grouted Walls	 Fill Slopes over landslide	 Landslide	— Possible Avalanche Path	 Fill Slopes over landslide, >30% slope	 Sediment Pond	X-X Pavement Damage	 Glacial Deposit	 Steep Slopes, >30% slope	— Scarp			— Wall			— Stream			<p>Referenced Data</p> <table border="0"> <tr> <td>CGS Mears, A.I., 1979</td> <td>USGS Faults</td> </tr> <tr> <td>→ Small Avalanche Paths</td> <td>— Fault - Certain</td> </tr> <tr> <td>— Avalanche Zones</td> <td>⋯ Fault - Uncertain</td> </tr> <tr> <td>Mears, 1979 & Engineertek, 2015</td> <td>USGS, Kellog, et al, 2003</td> </tr> <tr> <td></td> <td> Alluvial Fan - Revised by Yeh & Associates</td> </tr> </table>		CGS Mears, A.I., 1979	USGS Faults	→ Small Avalanche Paths	— Fault - Certain	— Avalanche Zones	⋯ Fault - Uncertain	Mears, 1979 & Engineertek, 2015	USGS, Kellog, et al, 2003		 Alluvial Fan - Revised by Yeh & Associates	<p>N</p>	<p>0 187.5 375 750 1,125 1,500 Feet</p>	<p>Yeh and Associates, Inc. Geotechnical • Geological • Construction Services</p> <p>West Vail Pass Geohazard Maps</p> <p>Project Name: West Vail Pass Task Order #2</p> <p>Project Number: 217-520</p> <p>Date: January 2020</p>	<p>PLATE</p> <p>13</p>
💧 Seeps	 Alluvial Fan	 Glacial Deposits (disturbed)																																									
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