

Northern Expansion Project -  
Project Vicinity

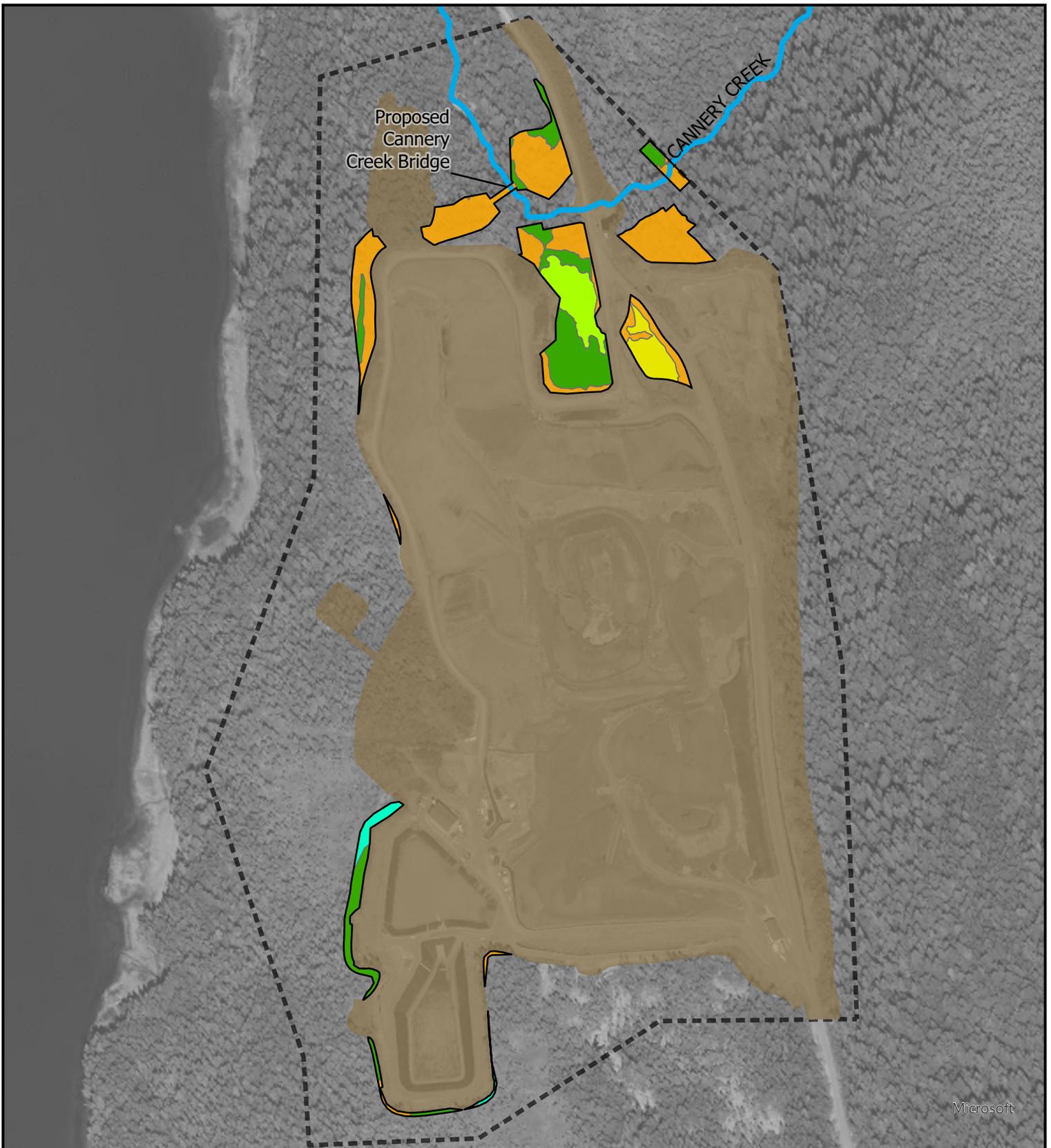
Hecla Greens Creek

-  Project Location
-  Community

APPLICANT: Hecla Greens Creek  
 FILE NO: POA-1988-269  
 WATERWAY: Cannery Creek  
 LOCATION: 58.1163N 134.7467W  
 SHEET 1 OF 7  
 DATE: 02/05/2025



0 5 10  
Miles  
 HORIZONTAL DATUM:  
 NAD 1983, State Plane Zone 4

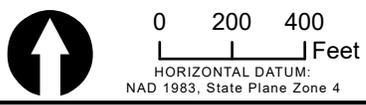


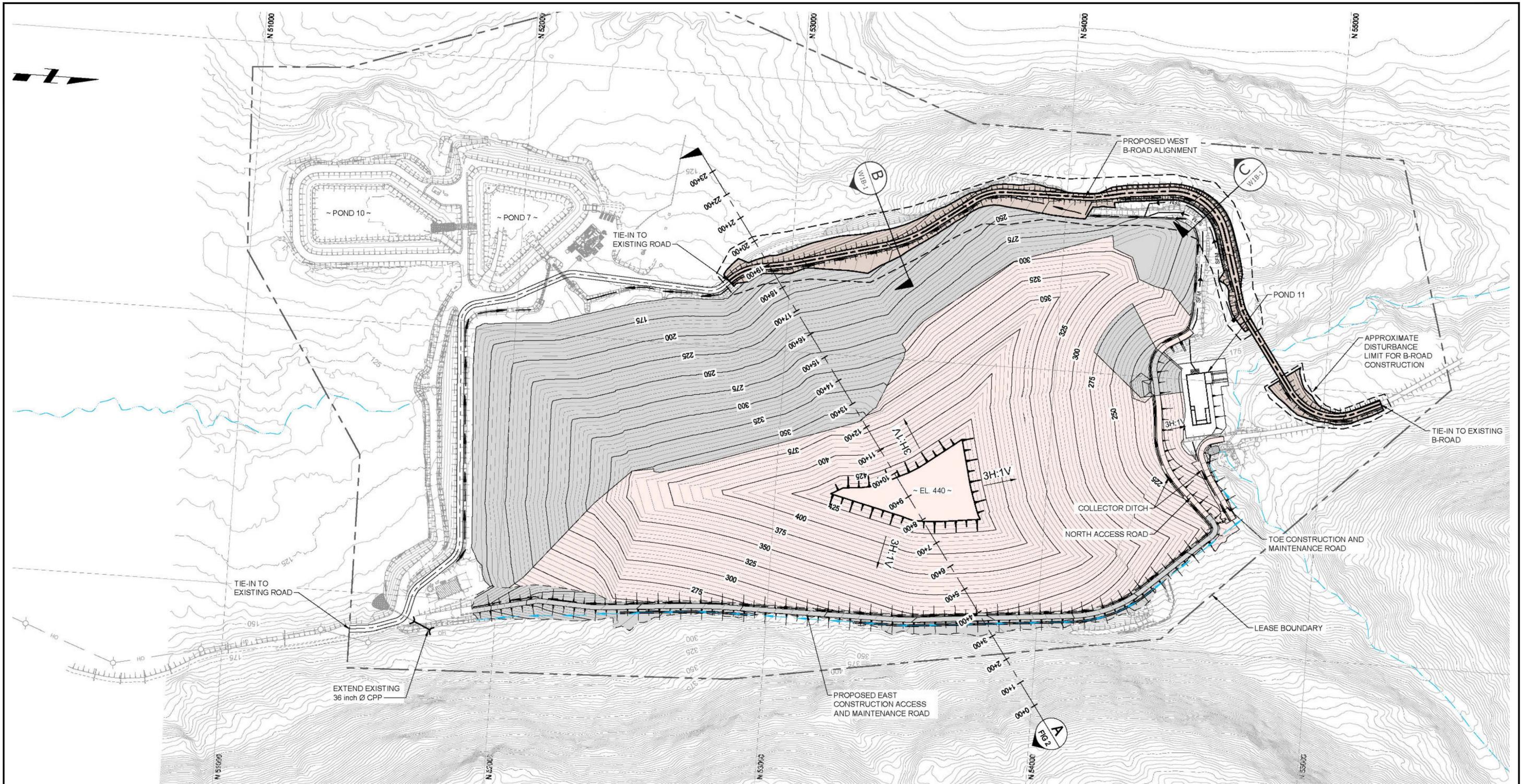
Microsoft

Northern Expansion Project  
 Modified Alternative B - Wetland Impact  
 Hecla Greens Creek

- |  |   |
|--|---|
|  Existing Permitted Disturbance Area      |  Wetland Impact<br>PEM1H |
|  Lease Boundary                           |  PFO4                    |
|  NEP Additional Proposed Disturbance Area |  PEM1                    |
|  Stream                                   |  PEM1 cleared            |

APPLICANT: Hecla Greens Creek  
 FILE NO: POA-1988-269  
 WATERWAY: Cannery Creek  
 LOCATION: 58.1163N 134.7467W  
 SHEET 2 OF 7  
 DATE: 02/05/2025





**NOTE**

1. EXISTING TOPOGRAPHY AND INFRASTRUCTURE LOCATIONS PROVIDED BY HECLA GREENS CREEK MINING COMPANY.

**LEGEND**

EXISTING		PROPOSED	
	MINE LEASE BOUNDARY		PROPOSED TOP OF SLOPE
	EXISTING TOP OF SLOPE		CLEAN WATER DIVERSION DITCH
	EXISTING DITCH		CONTACT WATER COLLECTION DITCH
	SURFACE CONTOURS (MAJOR)		CULVERT
	SURFACE CONTOURS (MINOR)		STAGE 2 FULL BUILDOUT
	CREEK		RELOCATED B-ROAD
	OH - TRANSMISSION LINE AND POLES		
	CURRENTLY APPROVED FULL BUILDOUT		

**PLAN**

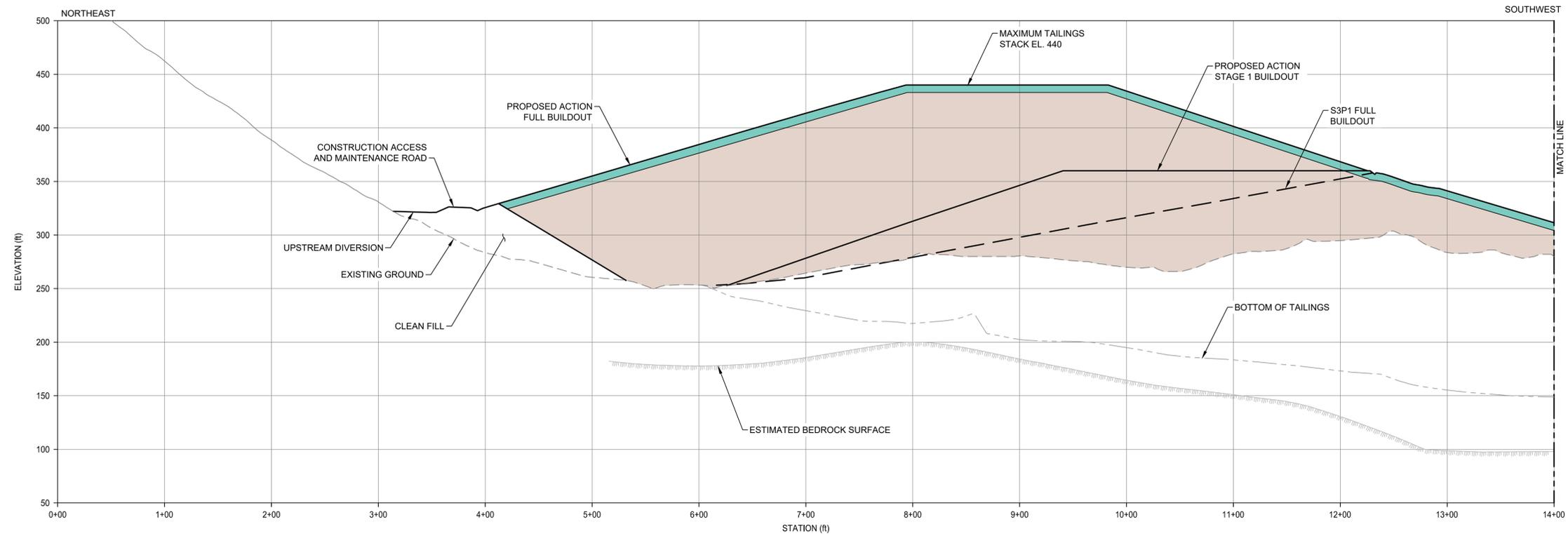
SCALE A

NOT FOR CONSTRUCTION



Proposed Mine Expansion -  
Tailings Disposal Facility B-  
Road Trade-Off  
Modified Alternative B  
Hecla Greens Creek

APPLICANT: Hecla Greens Creek  
FILE NO: POA-1988-269  
WATERWAY: Cannery Creek  
LOCATION: 58.1163N 134.7467W  
SHEET 3 OF 7  
DATE: 02/05/2025



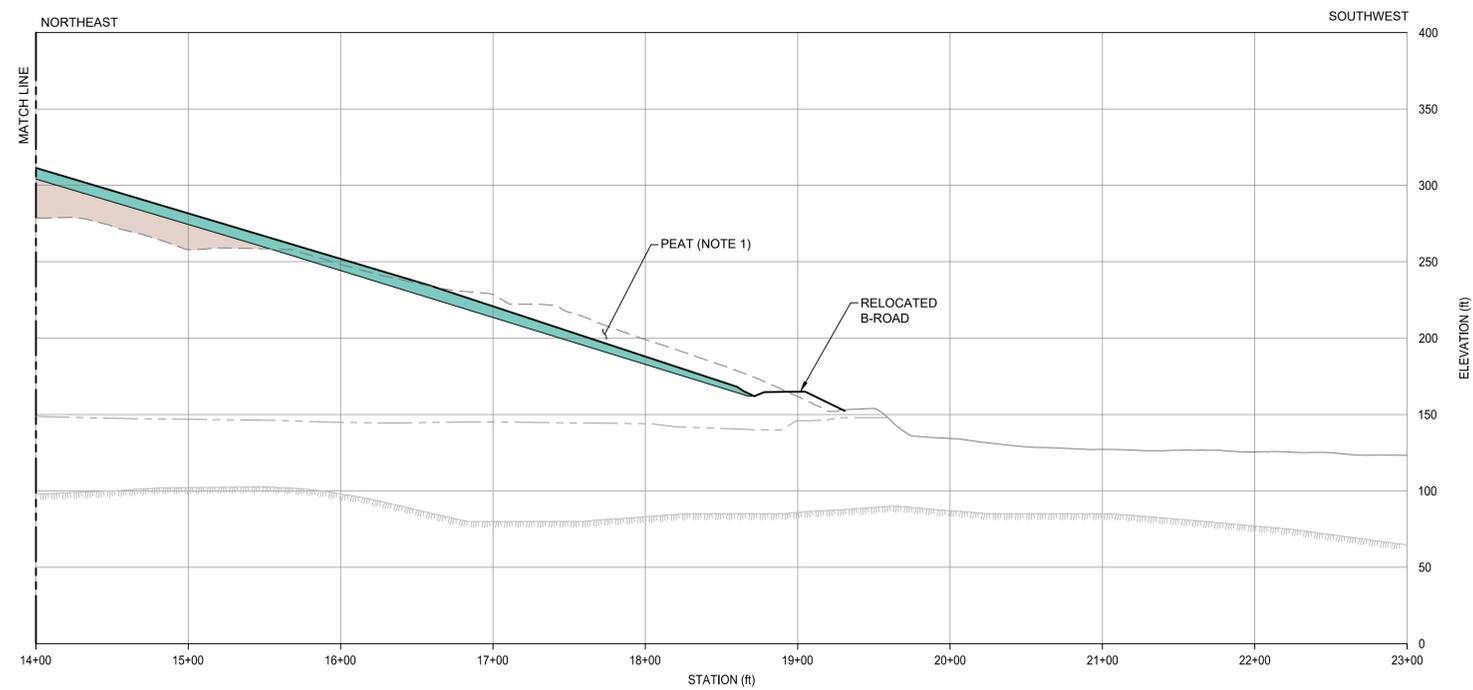
SECTION A STA. 0+00 TO STA. 14+00  
SCALE A FIG 1

**NOTE**

1. PEAT CURRENTLY ON THE SLOPE OF THE TAILINGS STACK MAY BE REMOVED BEFORE CLOSURE COVER CONSTRUCTION (TO BE CONFIRMED).

**LEGEND**

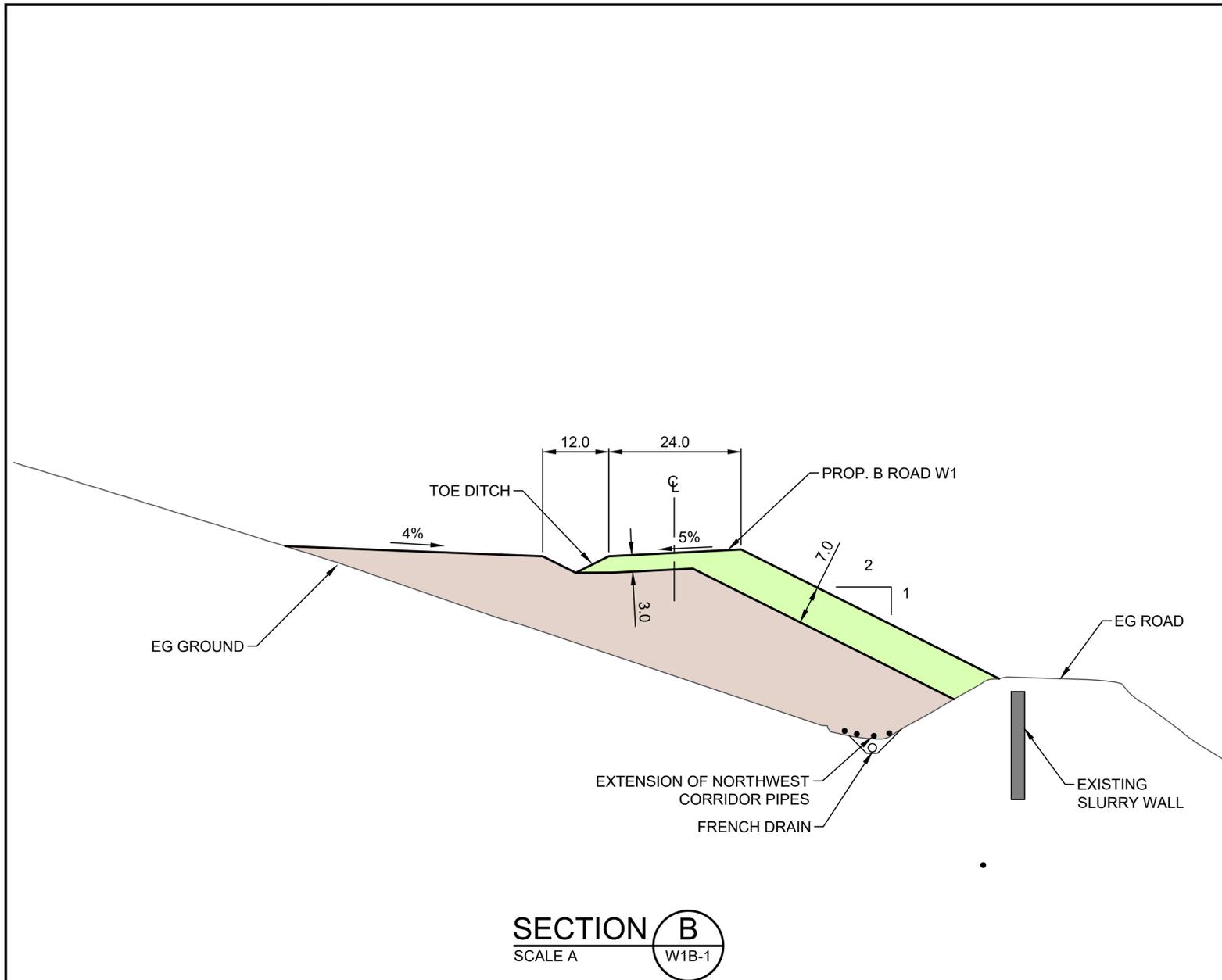
- EXISTING**
- BEDROCK SURFACE
  - BOTTOM OF TAILINGS
  - 2020 GROUND SURFACE
- PROPOSED**
- CLOSURE COVER
  - PROJECT TAILINGS
  - PROJECT STAGE 1 BUILDOUT
  - S3P1 FULL BUILDOUT



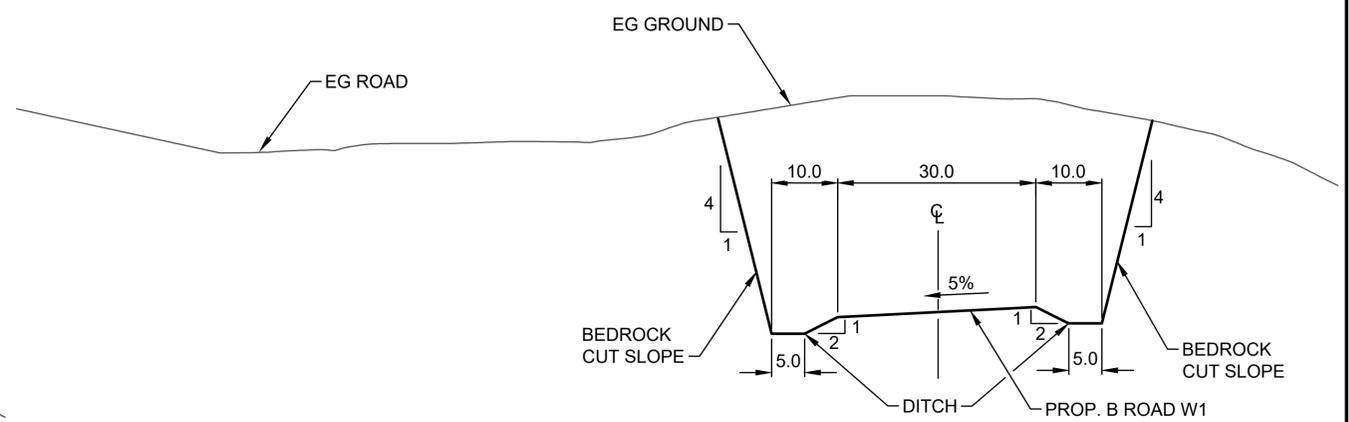
SECTION A STA. 14+00 TO STA. 23+00  
SCALE A FIG 1

NOT FOR CONSTRUCTION

Proposed Mine Expansion	APPLICANT: Hecla Greens Creek
-Tailings Disposal Facility	FILE NO: POA-1988-269
Full Buildout	WATERWAY: Cannery Creek
Cross Sections	LOCATION: 58.1163N 134.7467W
Hecla Greens Creek	SHEET 4 OF 7
	DATE: 02/05/2025



**SECTION B**  
SCALE A  
W1B-1



**SECTION C**  
SCALE A  
W1B-1

**NOTE**

1. EXISTING TOPOGRAPHY AND INFRASTRUCTURE LOCATIONS PROVIDED BY HECLA GREENS CREEK MINING COMPANY.
2. SECTIONS C AND D APPLY TO THE WEST 1, 2 AND 3 OPTIONS.

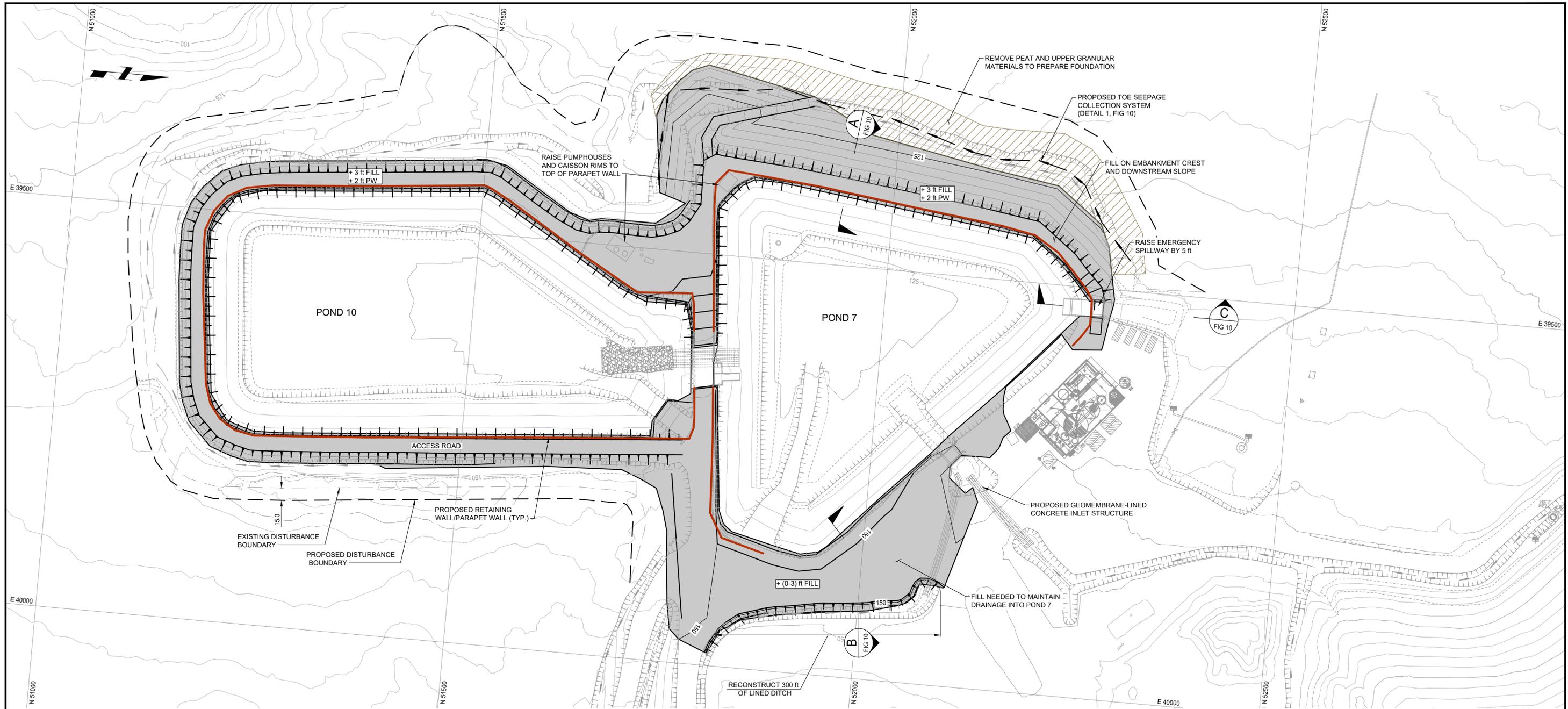
**LEGEND**

PROPOSED	
	CLEAN FILL (ROAD BASE / COVER MATERIAL)
	TAILINGS
	SERVICE LAYER
	GRANULAR FILL
	GEOMEMBRANE

**NOT FOR CONSTRUCTION**



Proposed Mine Expansion - Tailings Disposal Facility Full Buildout Cross Sections Hecla Greens Creek	<b>APPLICANT:</b> Hecla Greens Creek <b>FILE NO:</b> POA-1988-269 <b>WATERWAY:</b> Cannery Creek <b>LOCATION:</b> 58.1163N 134.7467W <b>SHEET 5 OF 7</b> <b>DATE:</b> 02/05/2025
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**NOTES**

1. EXISTING TOPOGRAPHY AND INFRASTRUCTURE LOCATIONS PROVIDED BY HECLA GREENS CREEK MINING COMPANY.

**LEGEND**

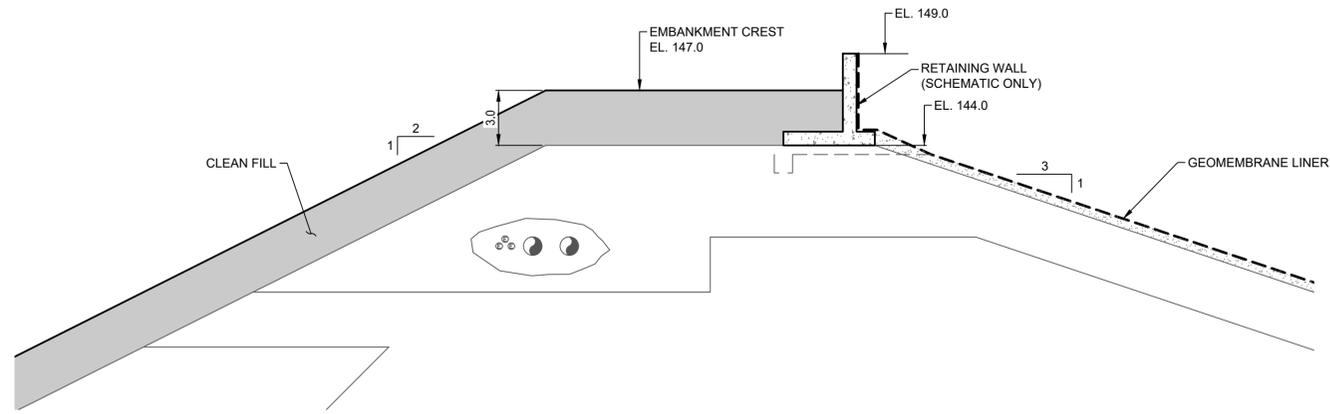
EXISTING		PROPOSED	
	EXISTING TOP OF SLOPE		PROPOSED TOP OF SLOPE
	EXISTING DITCH		PROPOSED SEEPAGE
	SURFACE CONTOURS (MAJOR)		HEIGHT OF FILL AND PARAPET WALL (PW)
	SURFACE CONTOURS (MINOR)		PROPOSED CLEAN FILL

**PLAN**  
1:60

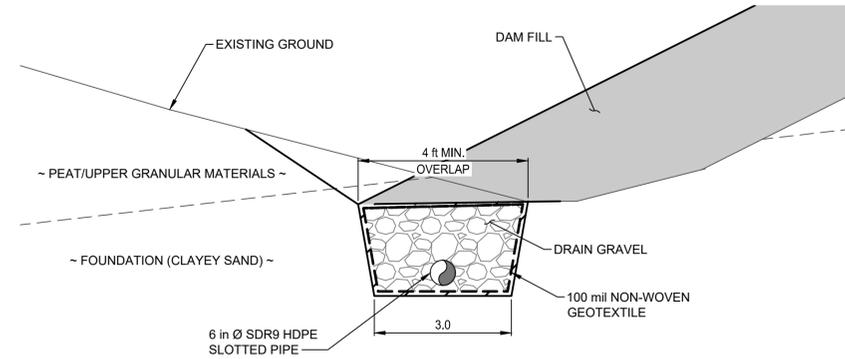
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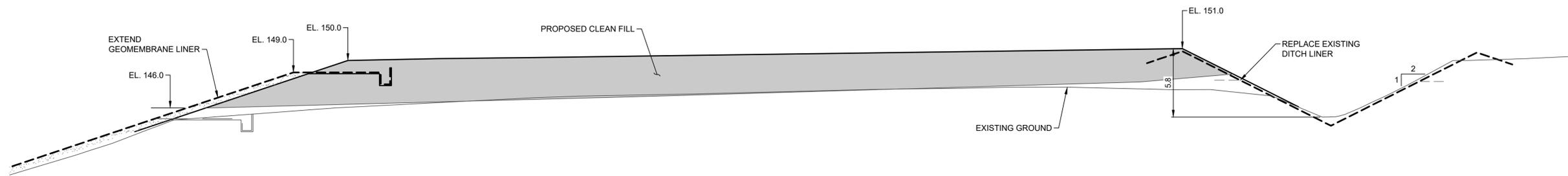
Proposed Mine Expansion - Pond 7/10 Expansion Hecla Greens Creek	APPLICANT: Hecla Greens Creek
	FILE NO: POA-1988-269
	WATERWAY: Cannery Creek
	LOCATION: 58.1163N 134.7467W
	SHEET 6 OF 7
	DATE: 02/05/2025



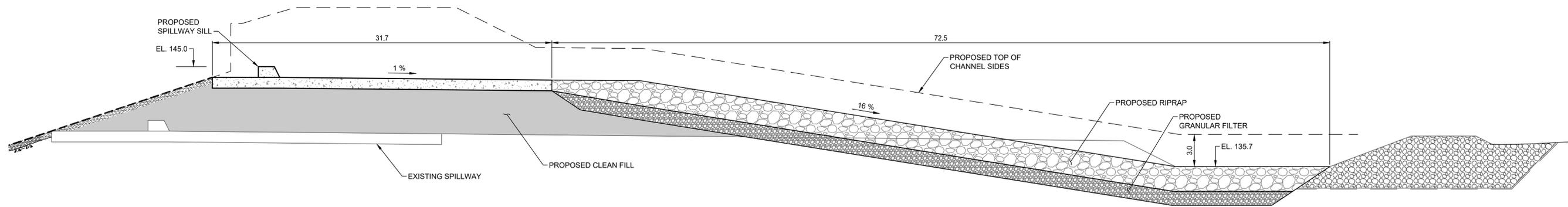
SECTION A EMBANKMENT CREST AND GEOMEMBRANE DETAIL (TYP.)  
SCALE A FIG 9



DETAIL 1 TOE SEEPAGE COLLECTION SYSTEM (TYP.)  
SCALE B FIG 9

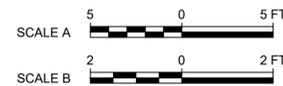


SECTION B POND 7 LAYDOWN FILL  
SCALE A FIG 9



SECTION C EMERGENCY SPILLWAY PROFILE  
SCALE A FIG 9

NOT FOR CONSTRUCTION



Proposed Mine Expansion - Pond 7/10 Expansion Cross Sections A/B/C Hecla Greens Creek	APPLICANT: Hecla Greens Creek FILE NO: POA-1988-269 WATERWAY: Cannery Creek LOCATION: 58.1163N 134.7467W SHEET 7 OF 7 DATE: 02/05/2025
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