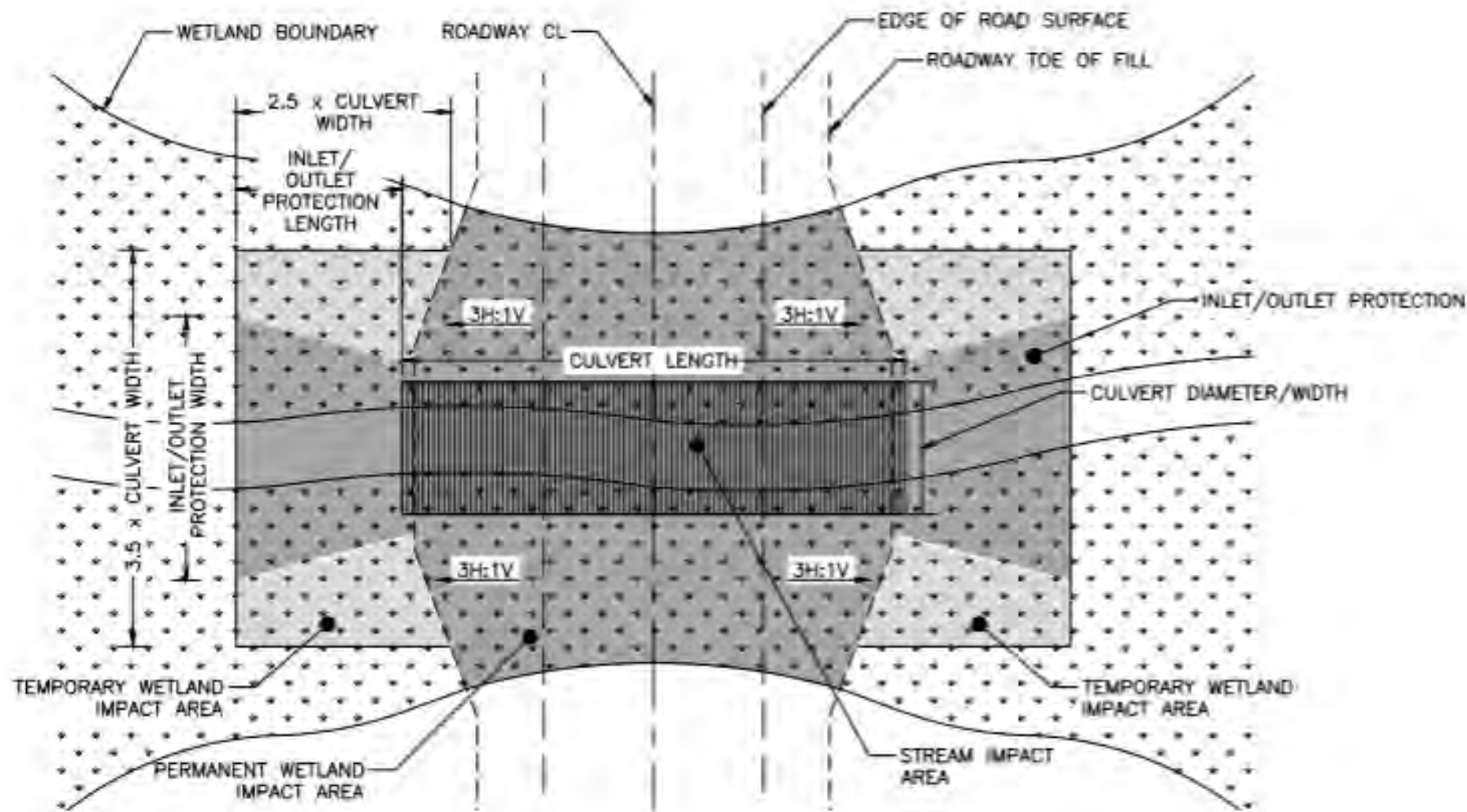




TYPICAL PLAN VIEW SCHEMATIC

NOTES:

1. CULVERT SHALL SPAN ENTIRE TOE OF FILL WIDTH.
2. CULVERT DIAMETER VARIES BASED ON STREAM CATEGORIZATION. SEE TYPICAL DETAILS ON CATEGORIES 2 THROUGH 7 SHEETS.
3. PERMANENT WETLAND IMPACT AREA IS ASSUMED FOR CULVERT CONSTRUCTION. LIMITS INCLUDE ROADWAY PRISM SURROUNDING CULVERT AND INLET/OUTLET PROTECTION. SEE TYPICAL DETAIL SHEETS FOR CATEGORIES 2 THROUGH 7 FOR INLET/OUTLET PROTECTION DIMENSIONS.
4. TEMPORARY WETLAND IMPACT AREA IS ASSUMED FOR CULVERT CONSTRUCTION AND DOES NOT OVERLAP WITH THE PERMANENT IMPACT AREA. LIMITS APPROXIMATELY EXTEND IN LENGTH BEYOND TOE OF FILL 2.5 TIMES THE DIAMETER OF A ROUND CULVERT AND IN WIDTH 3.5 TIMES THE DIAMETER OF A ROUND CULVERT. FOR A PIPE ARCH, USE THE RISE DIMENSION AS EQUAL TO DIAMETER.
5. STREAM IMPACT AREA EQUALS STREAM WIDTH TIMES CULVERT LENGTH PLUS THE AREA ASSOCIATED WITH INLET/OUTLET PROTECTION.
6. FISH PASSAGE CULVERTS SHALL BE EMBEDDED WITH STREAM BED MATERIAL PER MEMORANDUM OF AGREEMENT REQUIREMENTS. THIS IS ONLY APPLICABLE TO CULVERT CATEGORIES 4, 6, AND 7. SEE TYPICAL DETAIL SHEETS FOR CATEGORIES 4, 6 AND 7.
7. STREAM BED SLOPE THROUGH CULVERT SHALL MATCH STREAM SLOPE TO MAXIMUM EXTENT PRACTICABLE. FOR FISH PASSAGE CULVERT CATEGORIES 4, 6, AND 7 SLOPE THROUGH CULVERT SHALL BE NO GREATER THAN STREAM SLOPE $\pm 1\%$.
8. FILL DEPTH WILL BE DETERMINED BASED ON EQUIPMENT LOADING AND CULVERT DESIGN.
9. EROSION AND STORMWATER RUNOFF CONTROL MEASURES AND STABILIZATION OF DISTURBED AREAS WILL BE IMPLEMENTED AS NECESSARY AND IN ACCORDANCE WITH BEST PRACTICES.
10. FOR CULVERT LENGTH REFER TO APPENDIX B - CULVERT IMPACTS TABLE.

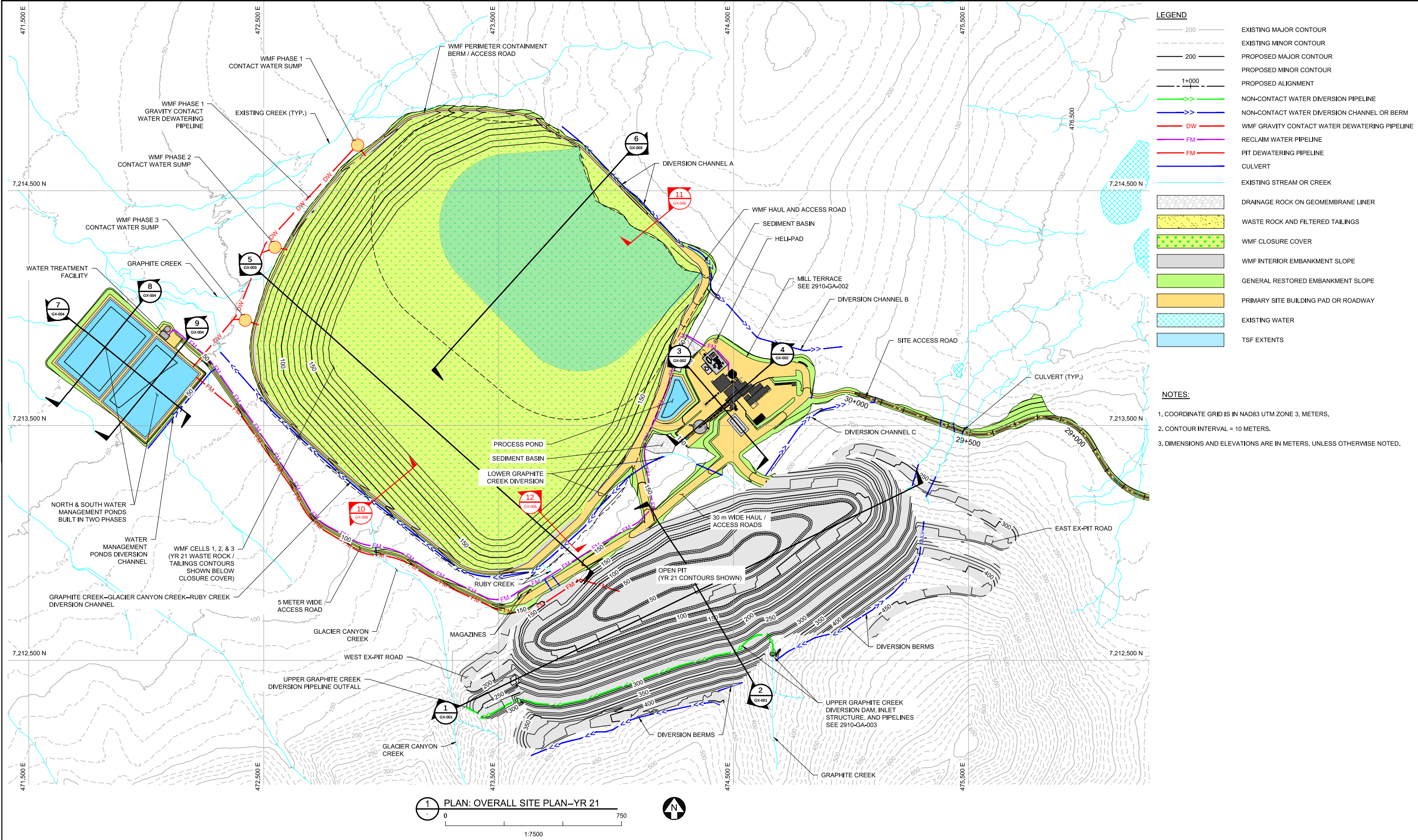
GRAPHITE CREEK PROJECT
APPLICANT: GRAPHITE ONE

LAT., LONG. VARIES
PROPOSED ACTIVITY: ROAD CONSTRUCTION
WATERWAY: VARIES
FILE NO. POA-2018-00210

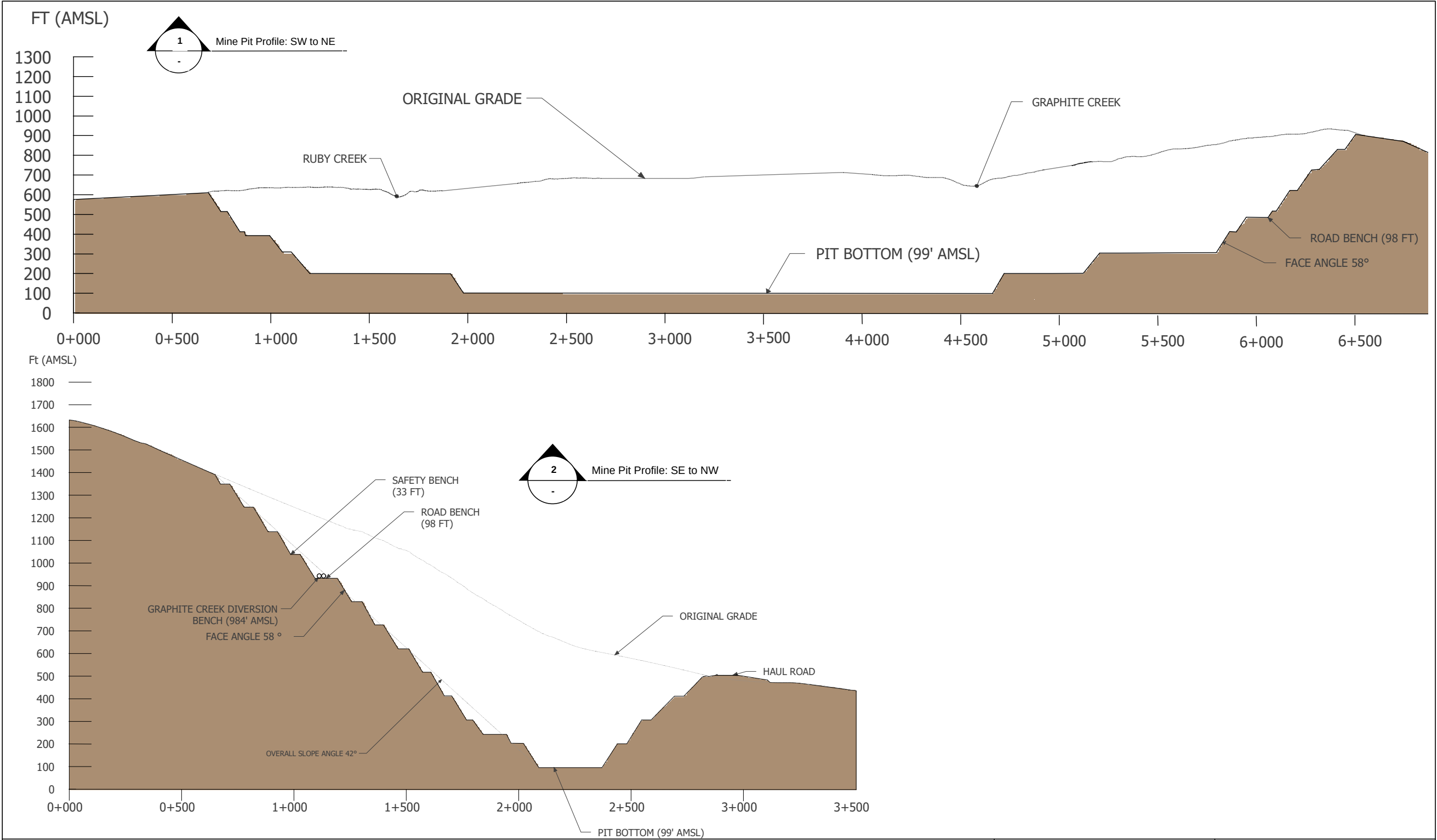
DRAWING TITLE:

TYPICAL PLAN VIEW FOR
CATEGORY 2-8
STRUCTURES

DATE: AUGUST 2025
FIGURE NO. CX-009

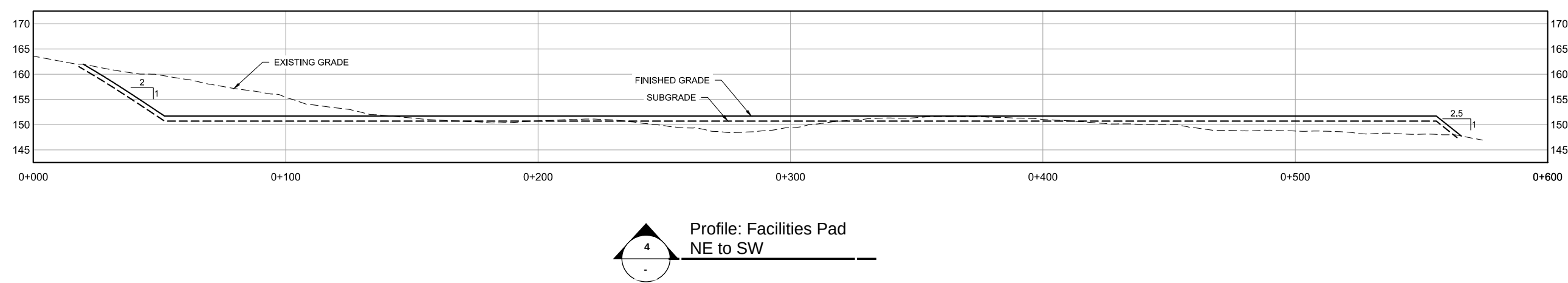
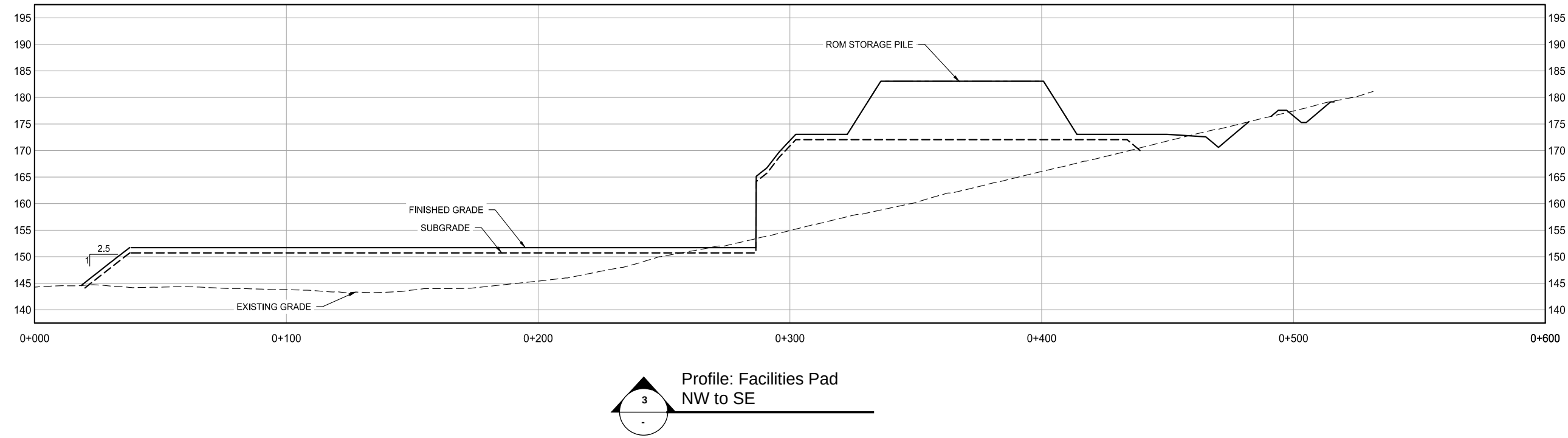


GRAPHITE CREEK PROJECT			DRAWING TITLE:	
APPLICANT: GRAPHITE ONE			MINE OVERVIEW	
LAT., LONG.	VARIES	PROPOSED ACTIVITY:	MINE CONSTRUCTION	
WATERWAY:	VARIES	FILE NO.	POA-2018-00210	DATE: AUGUST 2025
			FIGURE NO.	GC-001



APPROXIMATE SCALE IN FEET

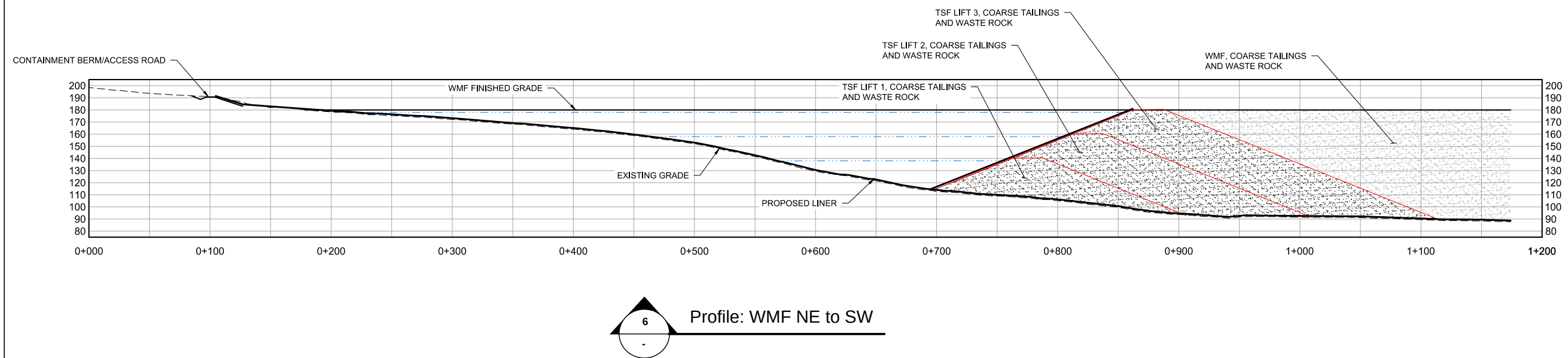
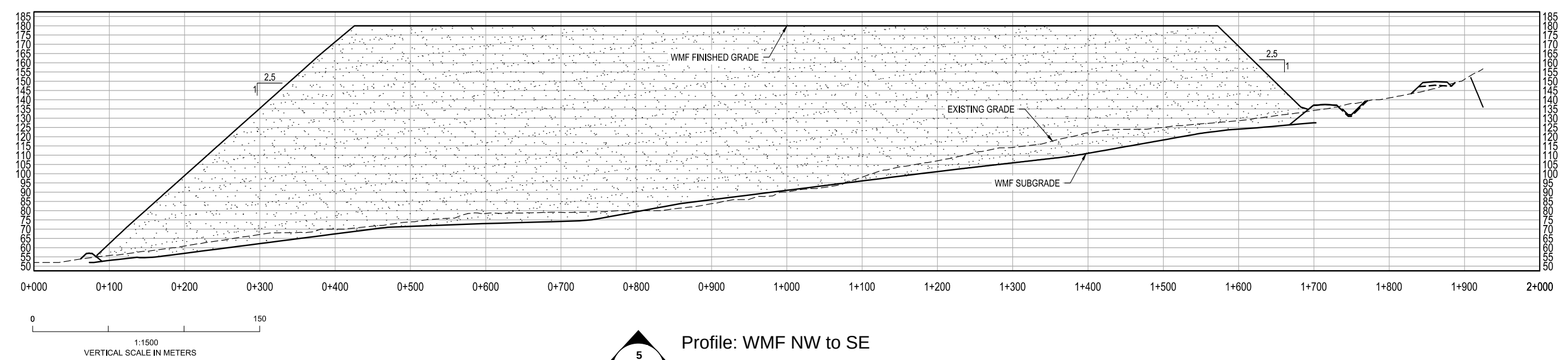
GRAPHITE CREEK PROJECT APPLICANT: GRAPHITE ONE		DRAWING TITLE: MINE PIT CROSS SECTIONS	
LAT., LONG.	VARIES	PROPOSED ACTIVITY: MINE CONSTRUCTION	
WATERWAY:	VARIES	FILE NO. POA-2018-00210	DATE: AUGUST 2025 FIGURE NO. GX-001



NOTES:

1. DIMENSIONS AND ELEVATIONS ARE IN METERS.

GRAPHITE CREEK PROJECT APPLICANT: GRAPHITE ONE		DRAWING TITLE: PROCESSING FACILITIES PAD CROSS SECTION	
LAT., LONG.	VARIES	PROPOSED ACTIVITY: MINE CONSTRUCTION	
WATERWAY:	VARIES	FILE NO. POA-2018-00210	DATE: AUGUST 2025
		FIGURE NO. GX-002	



NOTES:

1. DIMENSIONS AND ELEVATIONS ARE IN METERS.

GRAPHITE CREEK PROJECT
APPLICANT: GRAPHITE ONE

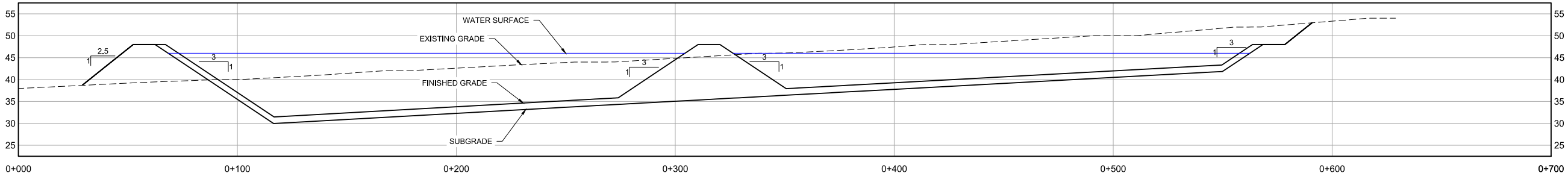
LAT., LONG.	VARIES	PROPOSED ACTIVITY:	MINE CONSTRUCTION
WATERWAY:	VARIES	FILE NO.	POA-2018-00210

DRAWING TITLE:

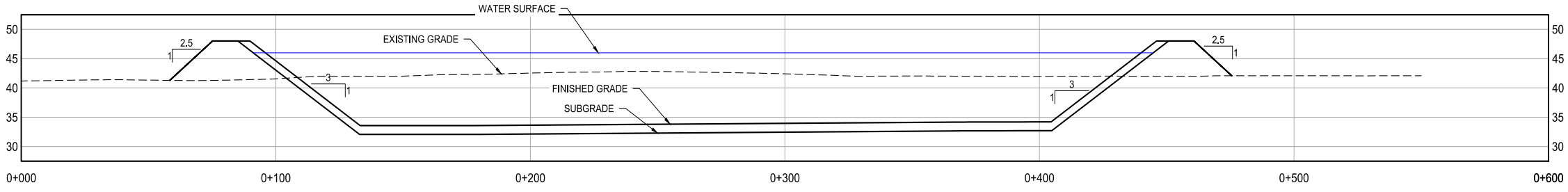
**WASTE MANAGEMENT
FACILITIES CROSS
SECTION**

DATE: **AUGUST 2025**

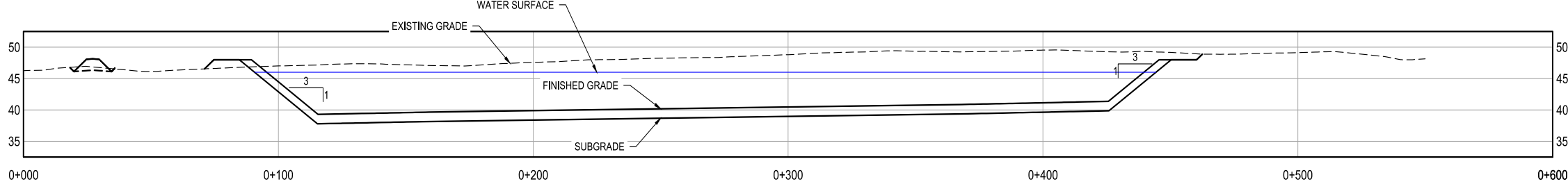
FIGURE NO.
GX-003



7
-
Profile: Ponds NW to SE



8
-
Profile: N Pond NE to SW

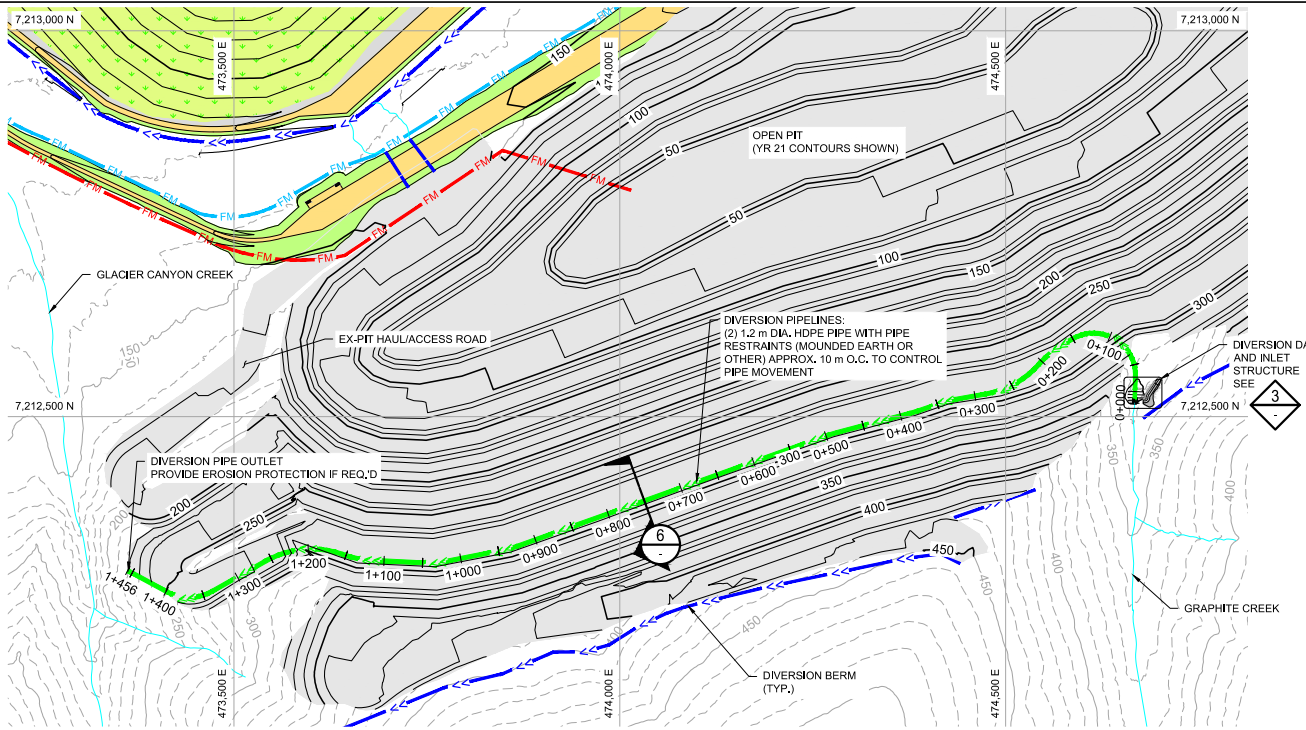


9
-
Profile: S Pond NE to SW

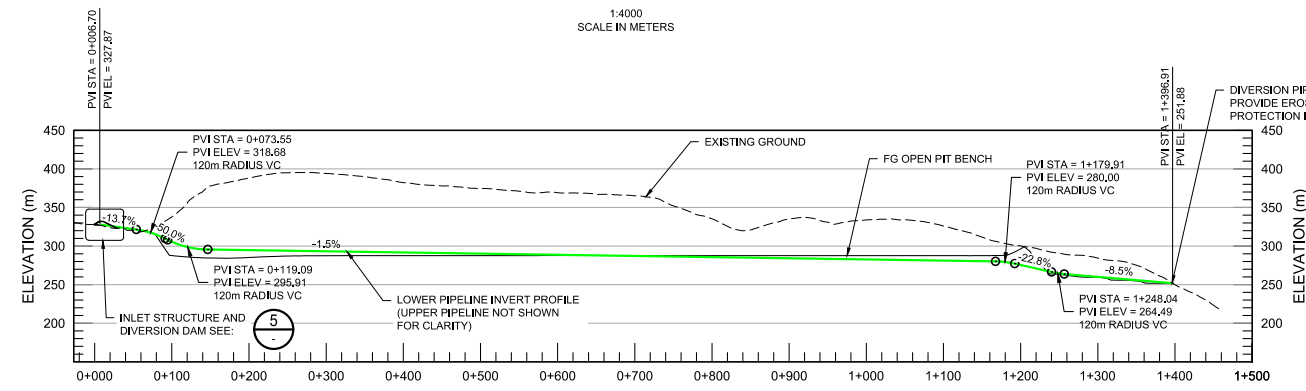
NOTES:

1. DIMENSIONS AND ELEVATIONS ARE IN METERS.

GRAPHITE CREEK PROJECT APPLICANT: GRAPHITE ONE		DRAWING TITLE: WATER MANAGEMENT FACILITIES CROSS SECTION	
LAT., LONG.	VARIES	PROPOSED ACTIVITY: MINE CONSTRUCTION	
WATERWAY:	VARIES	FILE NO. POA-2018-00210	DATE: AUGUST 2025
			FIGURE NO. GX-004

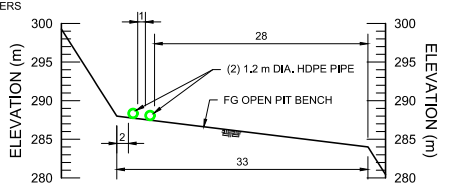


1 PLAN: UPPER GRAPHITE CREEK DIVERSION

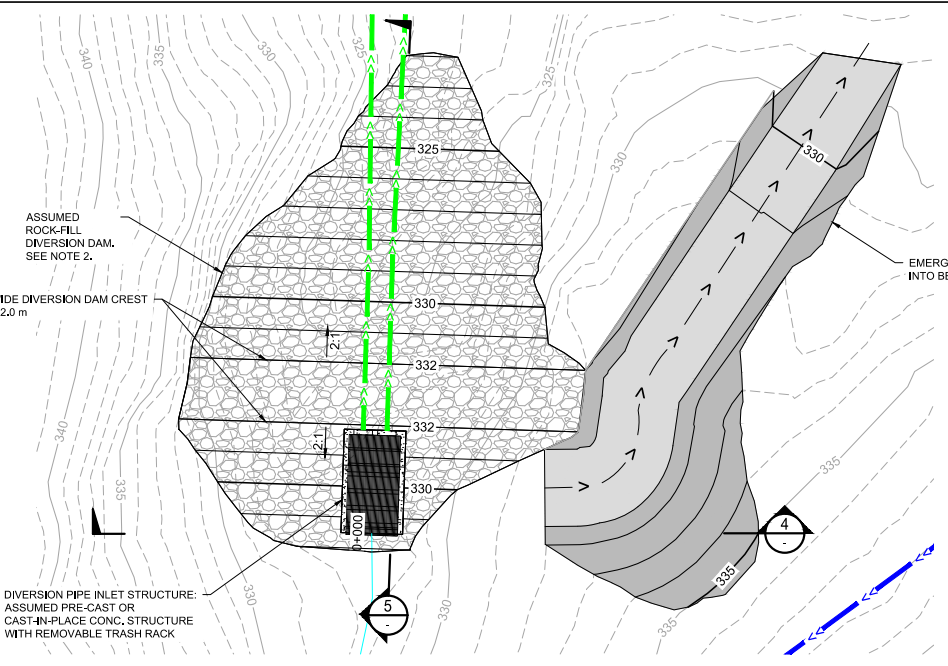


2 PROFILE: UPPER GRAPHITE CREEK DIVERSION

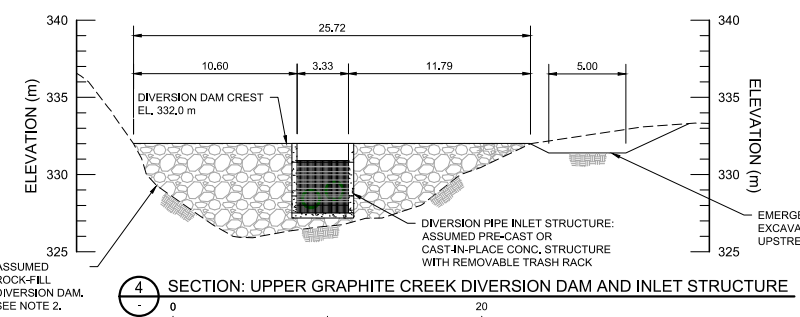
- LEGEND**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED ALIGNMENT AND STATIONING
 - NON-CONTACT WATER DIVERSION PIPELINE (PLAN VIEW)
 - NON-CONTACT WATER DIVERSION PIPELINE (PROFILE/SECTION VIEW)
 - NON-CONTACT WATER DIVERSION CHANNEL OR BERM
 - UPPER GRAPHITE CREEK DIVERSION DAM



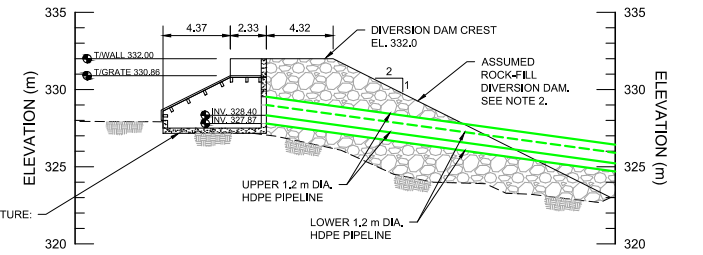
6 SECTION: UPPER GRAPHITE CREEK DIVERSION PIPELINE



3 DETAIL PLAN: UPPER GRAPHITE CREEK DIVERSION DAM AND INLET STRUCTURE



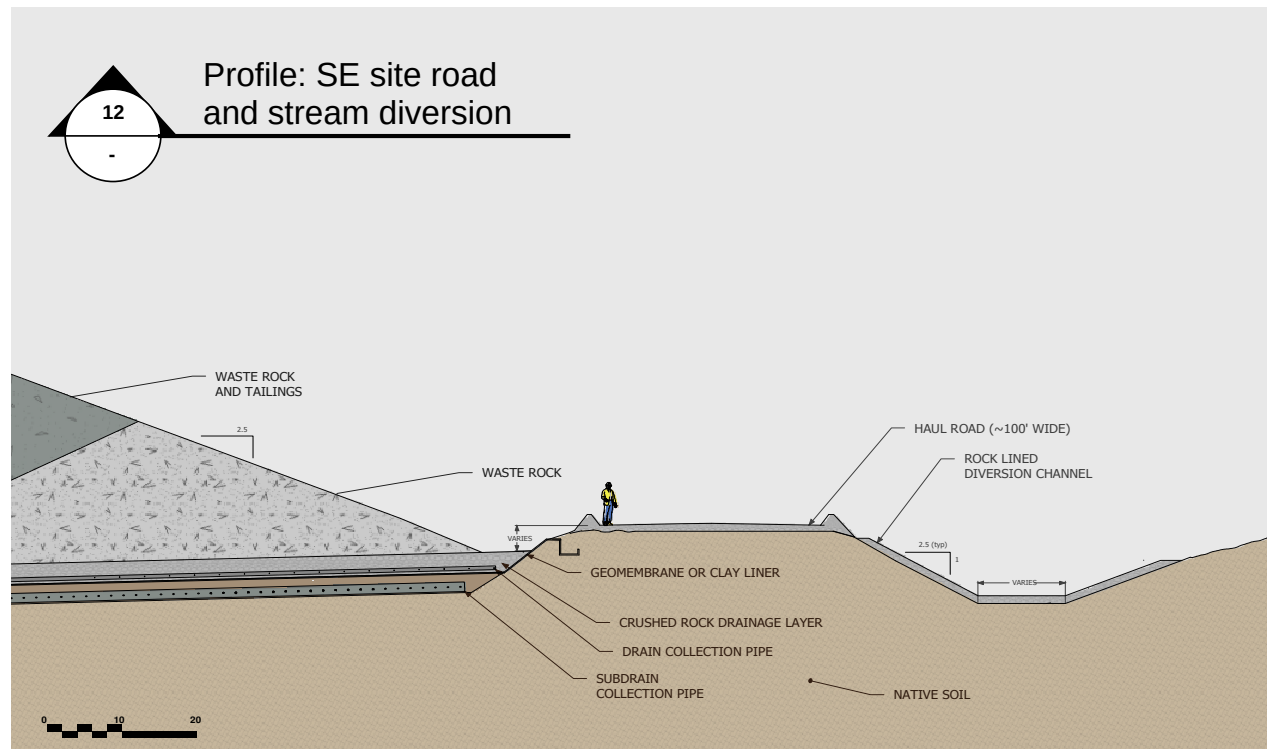
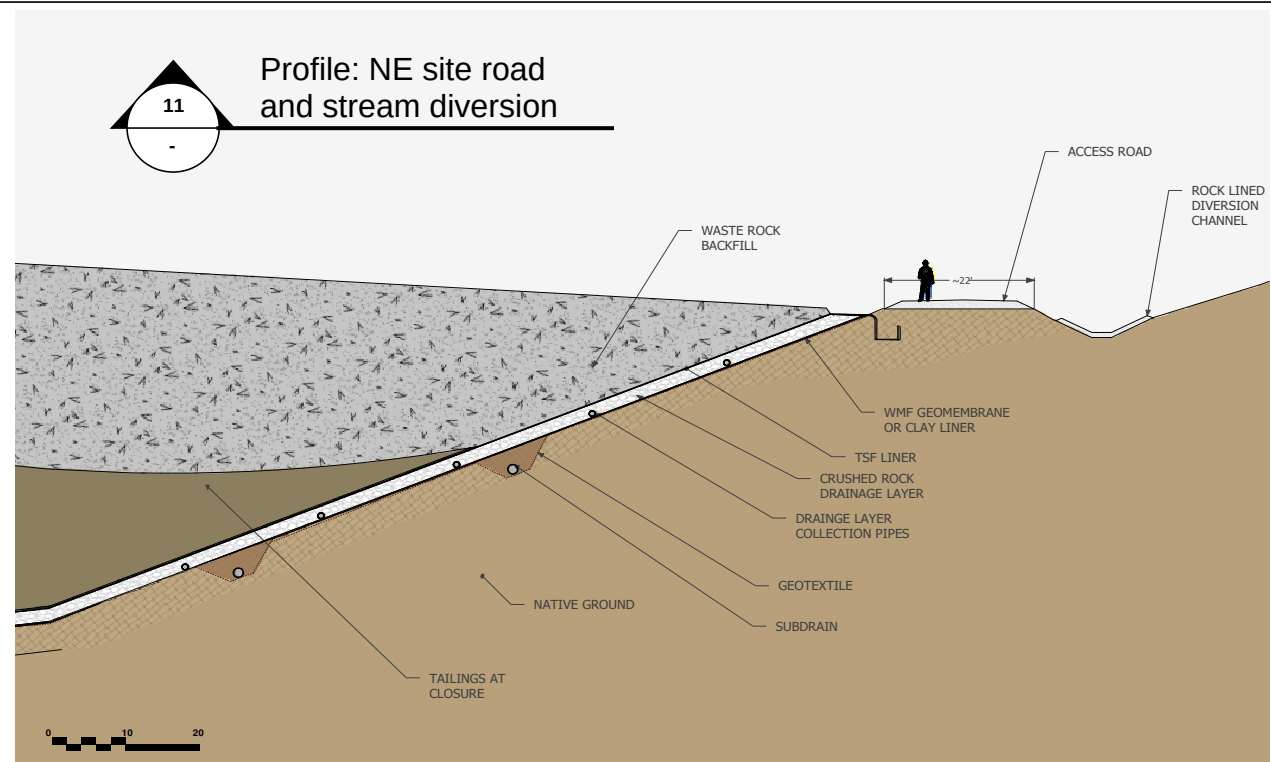
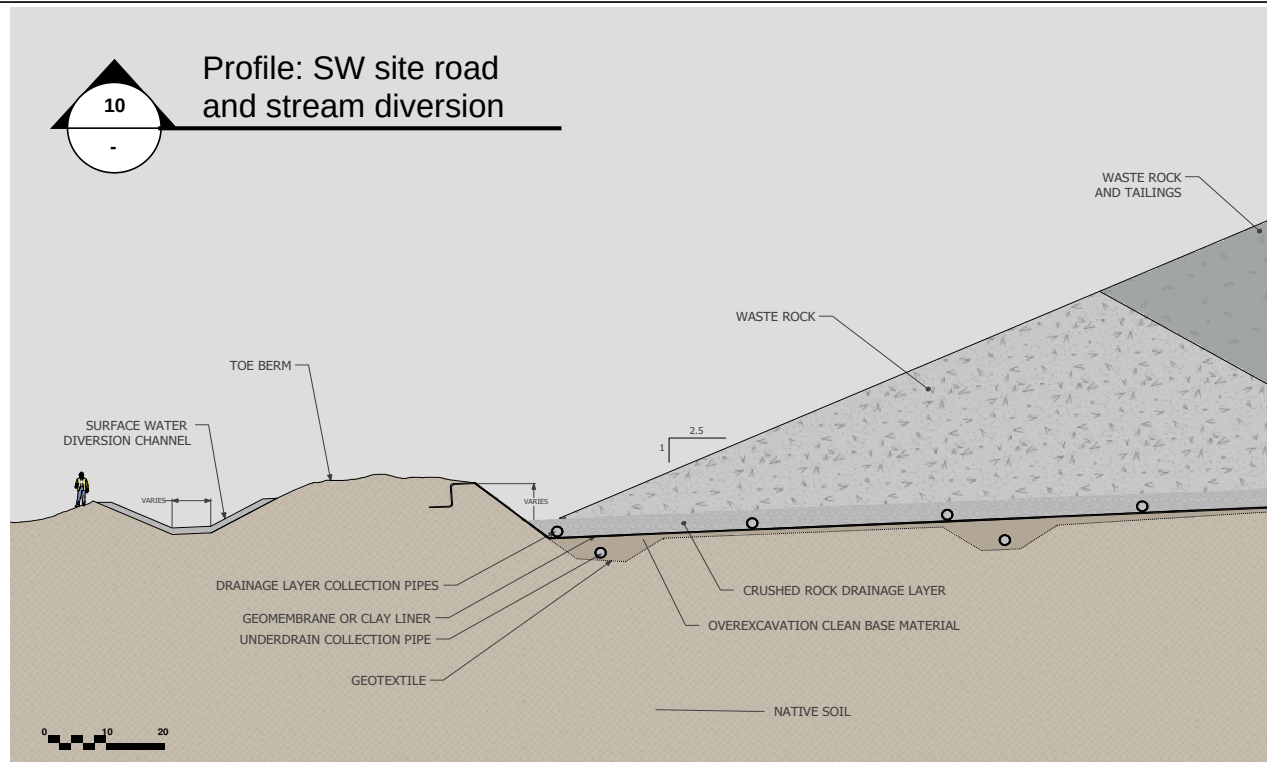
4 SECTION: UPPER GRAPHITE CREEK DIVERSION DAM AND INLET STRUCTURE



5 SECTION: UPPER GRAPHITE CREEK DIVERSION DAM AND INLET STRUCTURE

- NOTES:**
- DIMENSIONS AND ELEVATIONS ARE IN METERS, UNLESS OTHERWISE NOTED.
 - WATER BARRIER (CENTRAL CORE OR UPSTREAM DIAPHRAGM), TRANSITION, AND FILTER ZONES: FOR ROCK-FILL DIVERSION DAM NOT SHOWN (TO BE DETERMINED BASED ON FUTURE SITE SPECIFIC GEOTECHNICAL INVESTIGATION.)
 - VENT SUMP DOWNSTREAM OF INLET STRUCTURE NOT SHOWN.
 - ACCESS TO INLET STRUCTURE NOT SHOWN.
 - PIPELINE ALIGNMENT FOR YEARS 10 THROUGH 21 SHOWN THIS SHEET.

GRAPHITE CREEK PROJECT APPLICANT: GRAPHITE ONE		DRAWING TITLE: GRAPHITE CREEK DIVERSION DETAILS	
LAT., LONG.	VARIES	PROPOSED ACTIVITY: MINE CONSTRUCTION	
WATERWAY:	VARIES	FILE NO. POA-2018-00210	DATE: AUGUST 2025
			FIGURE NO. GX-005



GRAPHITE CREEK PROJECT
APPLICANT: GRAPHITE ONE

LAT., LONG. VARIES

WATERWAY: VARIES

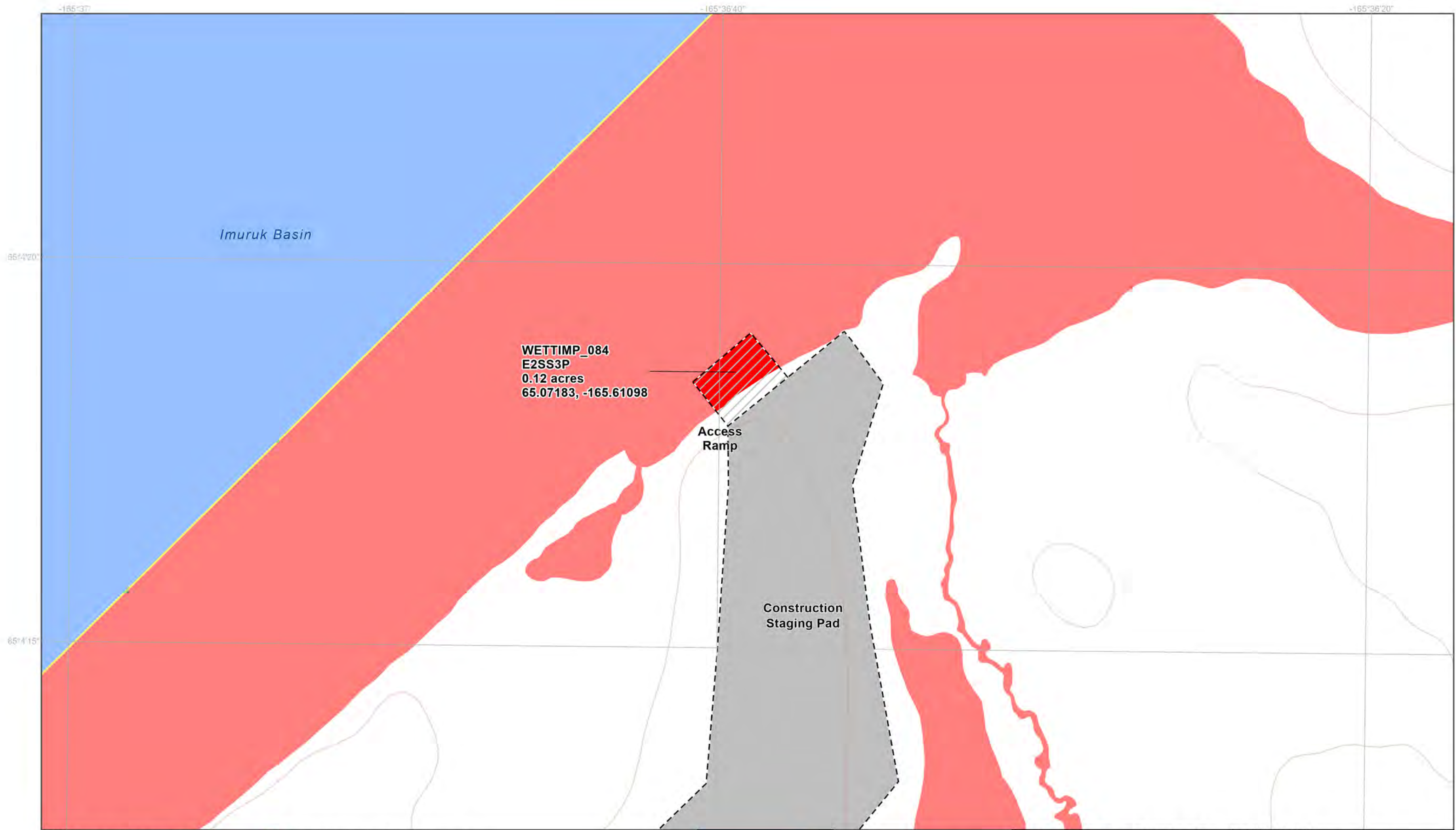
PROPOSED ACTIVITY: MINE CONSTRUCTION

FILE NO. POA-2018-00210

DRAWING TITLE:
**SITE ROAD AND STREAM
DIVERSION CROSS
SECTIONS**

DATE: **AUGUST 2025**

FIGURE NO. **GX-006**



- Permanent Disturbance Limit
- Potential Vegetation Clearing Limit
- Temporary Fill
- Wetlands Mapping Limit
- Jurisdictional Wetland and Water Impact
- Jurisdictional Wetland and Water
- 5 Meter Contours



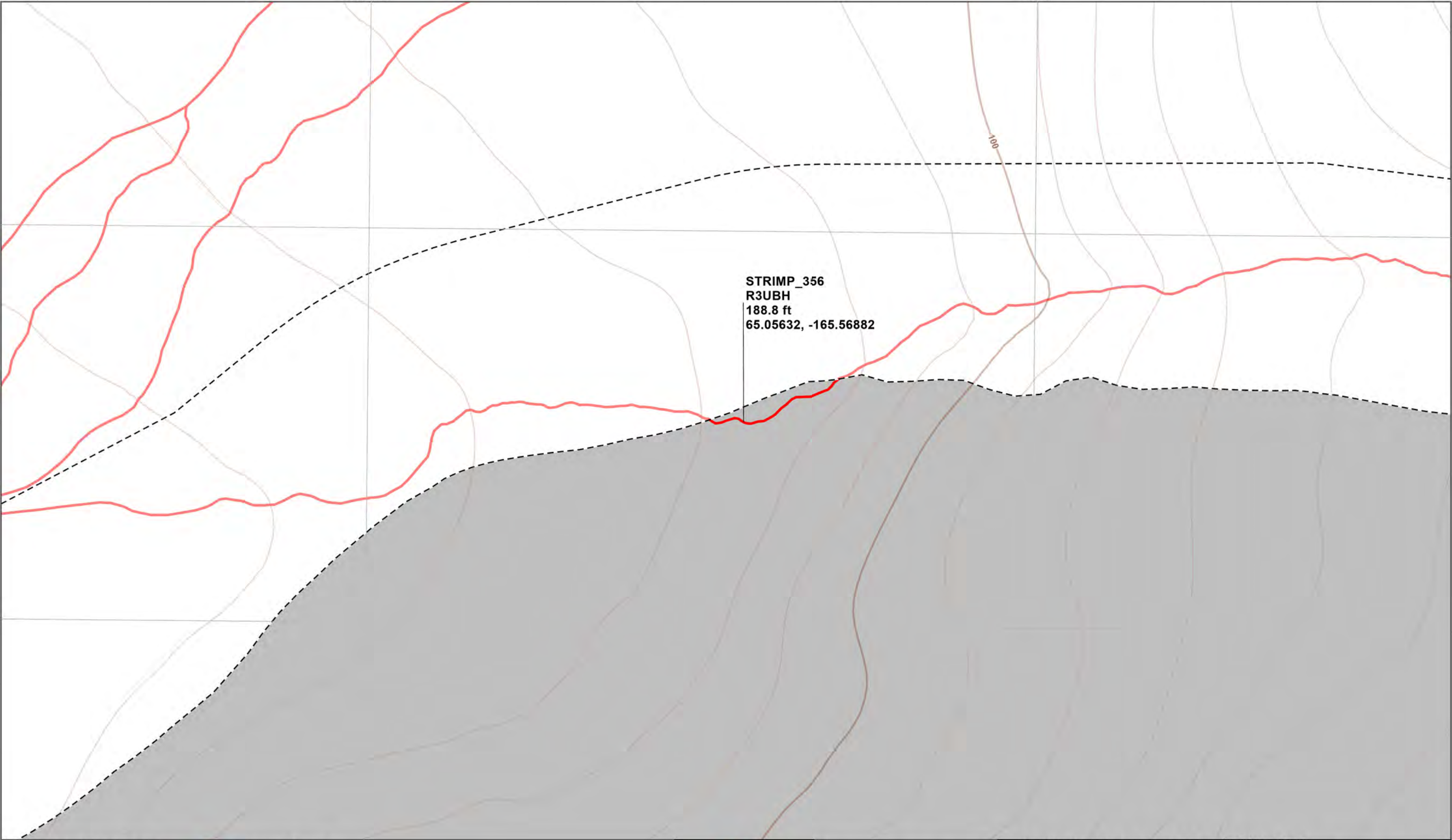
0 40 80 120 Feet

1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT	
APPLICANT: GRAPHITE ONE ALASKA, INC.	
LAT., LONG. OF PROJECT: VARIES	PROPOSED ACTIVITY: MINE AND ROAD CONSTRUCTION
WATERWAY: IMURUK	FILE NO. POA-2018-00210

DRAWING TITLE: WOTUS IMPACTS DETAIL	
DATE: JUNE 2025	FIGURE NO. D-001



Permanent Disturbance Limit

Potential Vegetation Clearing Limit

Jurisdictional Stream Impact

Jurisdictional Stream

5 Meter Contours

04080120

Feet

1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT

APPLICANT: GRAPHITE ONE ALASKA, INC.

LAT., LONG. OF PROJECT:
VARIES

WATERWAY:
IMURUK

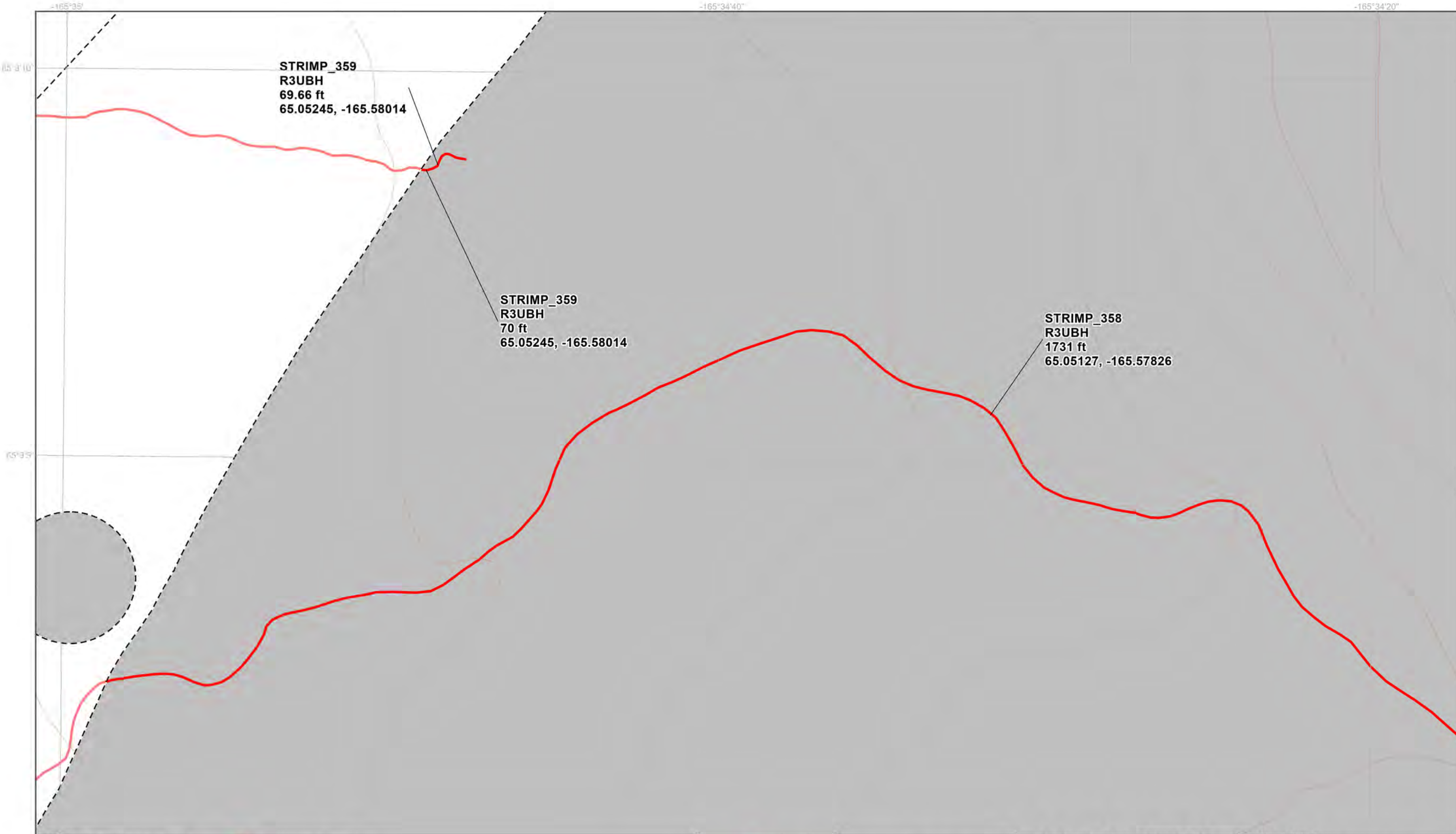
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MINE AND ROAD CONSTRUCTION

FILE NO.
POA-2018-00210

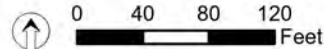
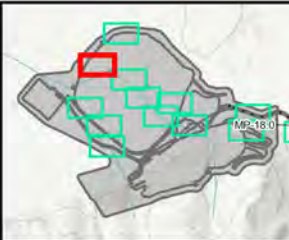
DRAWING TITLE:
WOTUS IMPACTS
DETAIL

DATE:
JUNE 2025

FIGURE NO.
D-002



- Permanent Disturbance Limit
- Potential Vegetation Clearing Limit
- Jurisdictional Stream Impact
- Jurisdictional Stream
- 5 Meter Contours



1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT
APPLICANT: GRAPHITE ONE ALASKA, INC.

LAT., LONG. OF PROJECT:
VARIES

PROPOSED ACTIVITY:
MINE AND ROAD CONSTRUCTION

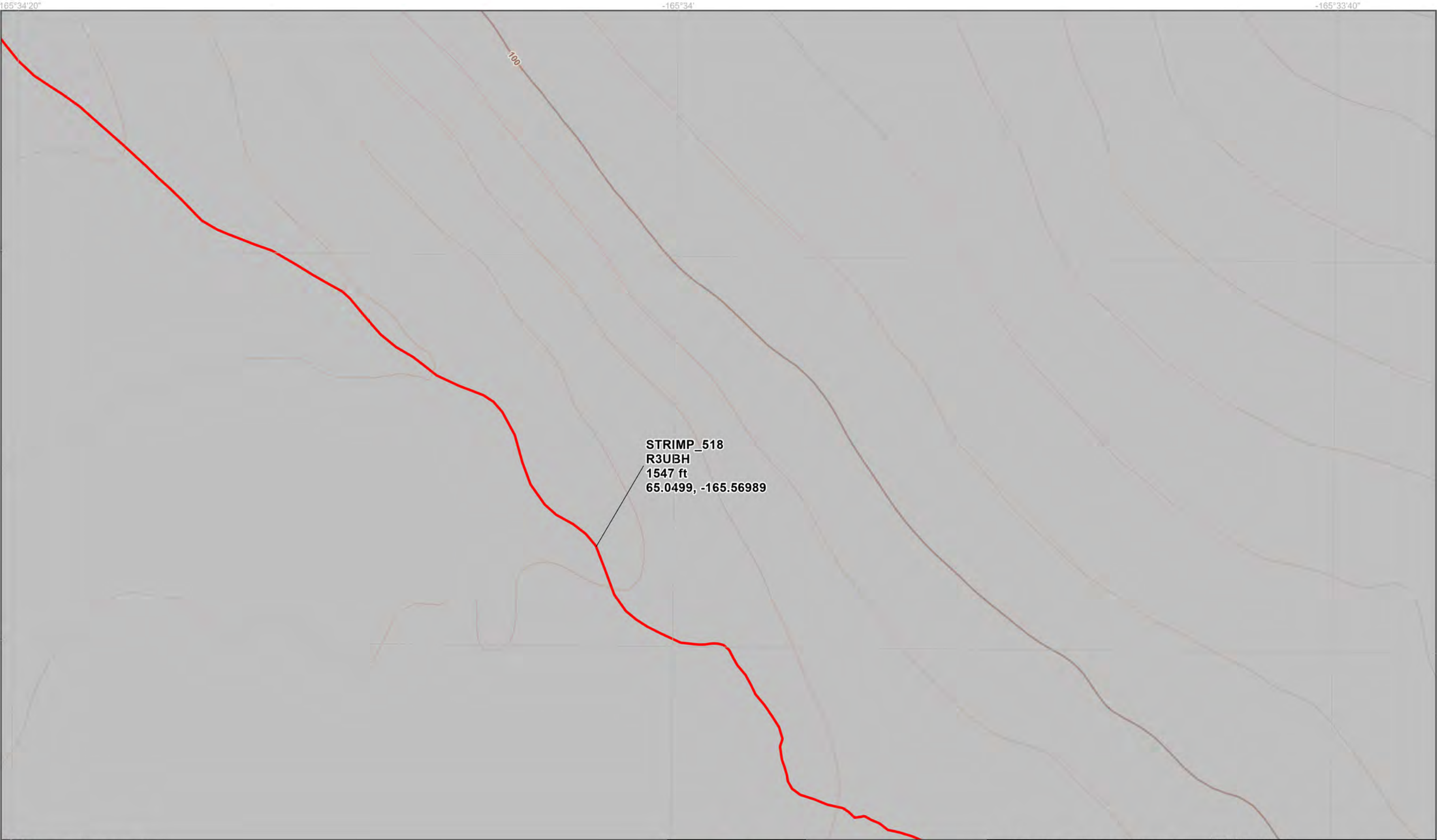
WATERWAY:
IMURUK

FILE NO.
POA-2018-00210

DRAWING TITLE:
**WOTUS IMPACTS
DETAIL**

DATE:
JUNE 2025

FIGURE NO.
D-003



Permanent Disturbance Limit

Jurisdictional Stream Impact

5 Meter Contours

04080120

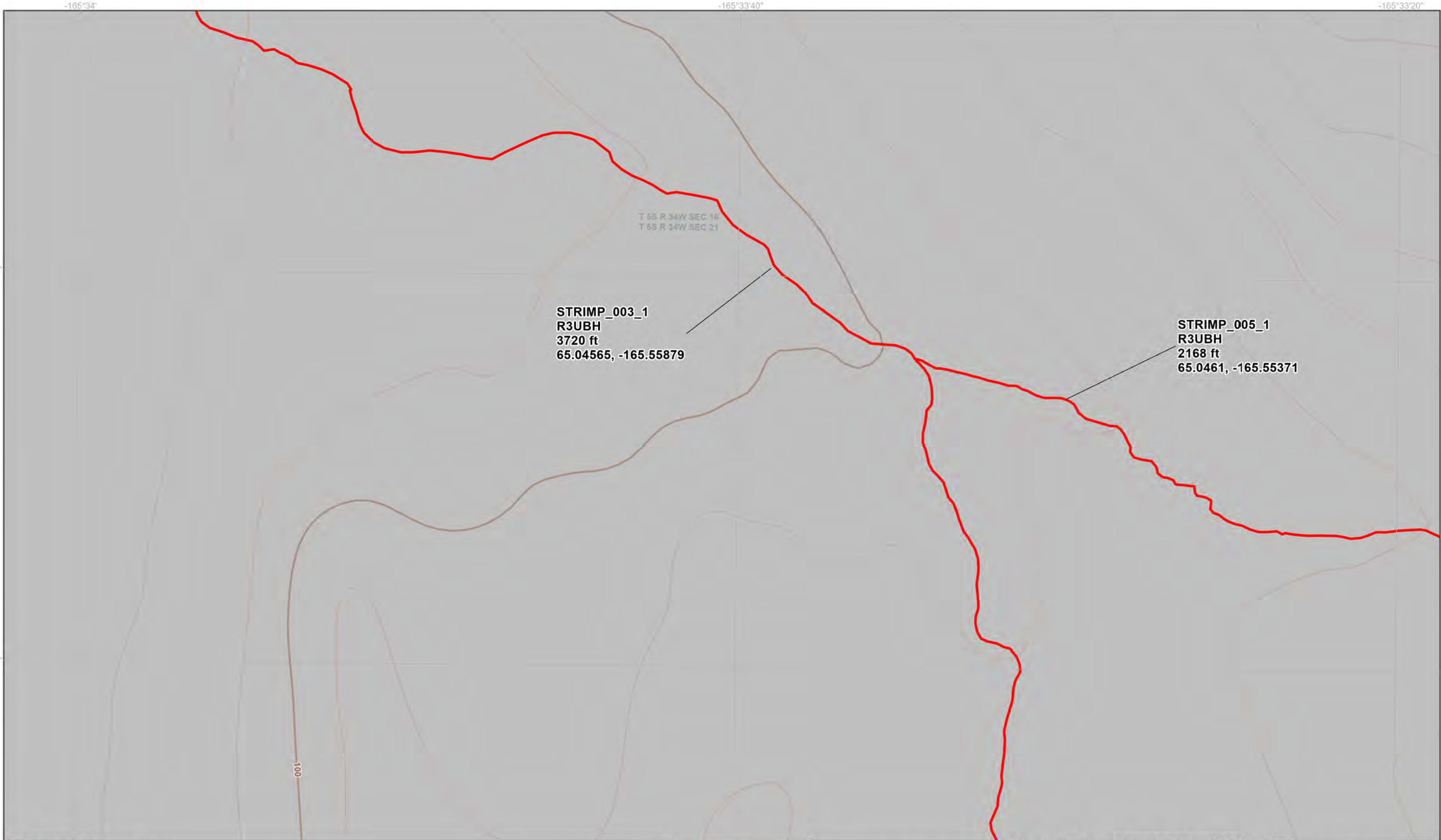
Feet

1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT	
APPLICANT: GRAPHITE ONE ALASKA, INC.	
LAT., LONG. OF PROJECT: VARIES	PROPOSED ACTIVITY: MINE AND ROAD CONSTRUCTION
WATERWAY: IMURUK	FILE NO. POA-2018-00210

DRAWING TITLE: WOTUS IMPACTS DETAIL	
DATE: JUNE 2025	FIGURE NO. D-004



Permanent Disturbance Limit

Jurisdictional Stream Impact

5 Meter Contours

04080120

Feet

1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT

APPLICANT: GRAPHITE ONE ALASKA, INC.

LAT., LONG. OF PROJECT:
VARIES

WATERWAY:
IMURUK

PROPOSED ACTIVITY:
MINE AND ROAD CONSTRUCTION

FILE NO.
POA-2018-00210

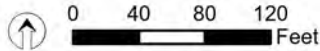
DRAWING TITLE:
WOTUS IMPACTS
DETAIL

DATE:
JUNE 2025

FIGURE NO.
D-005



 Permanent Disturbance Limit
 Jurisdictional Stream Impact
 Potential Vegetation Clearing Limit
 5 Meter Contours



1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT
APPLICANT: GRAPHITE ONE ALASKA, INC.

LAT., LONG. OF PROJECT:
VARIES

PROPOSED ACTIVITY:
MINE AND ROAD CONSTRUCTION

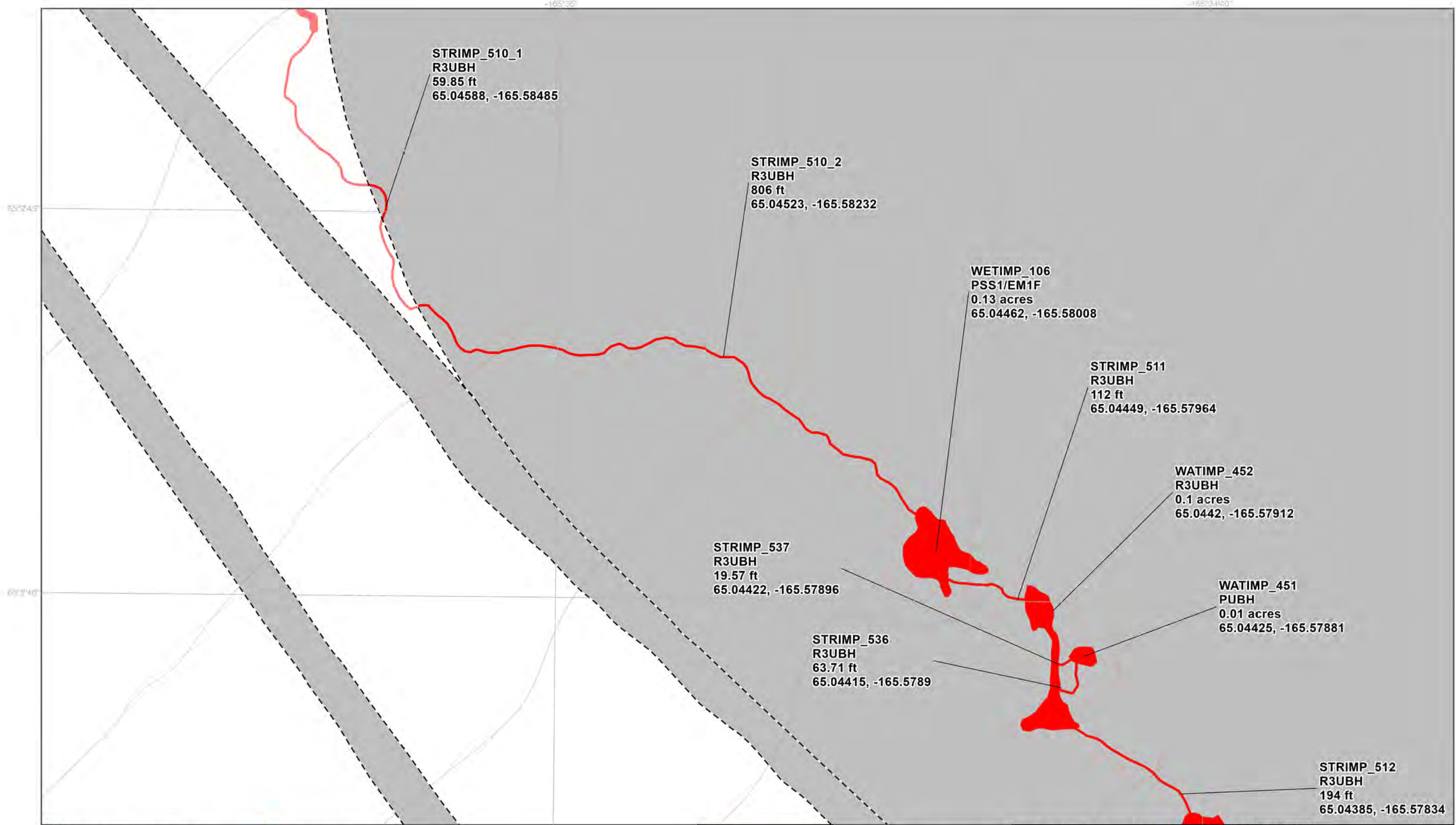
WATERWAY:
IMURUK

FILE NO.
POA-2018-00210

DRAWING TITLE:
**WOTUS IMPACTS
DETAIL**

DATE:
JUNE 2025

FIGURE NO.
D-006



- Permanent Disturbance Limit
- Potential Vegetation Clearing Limit
- Jurisdictional Stream Impact
- Jurisdictional Stream
- Jurisdictional Wetland and Water Impact
- Jurisdictional Wetland and Water
- 5 Meter Contours



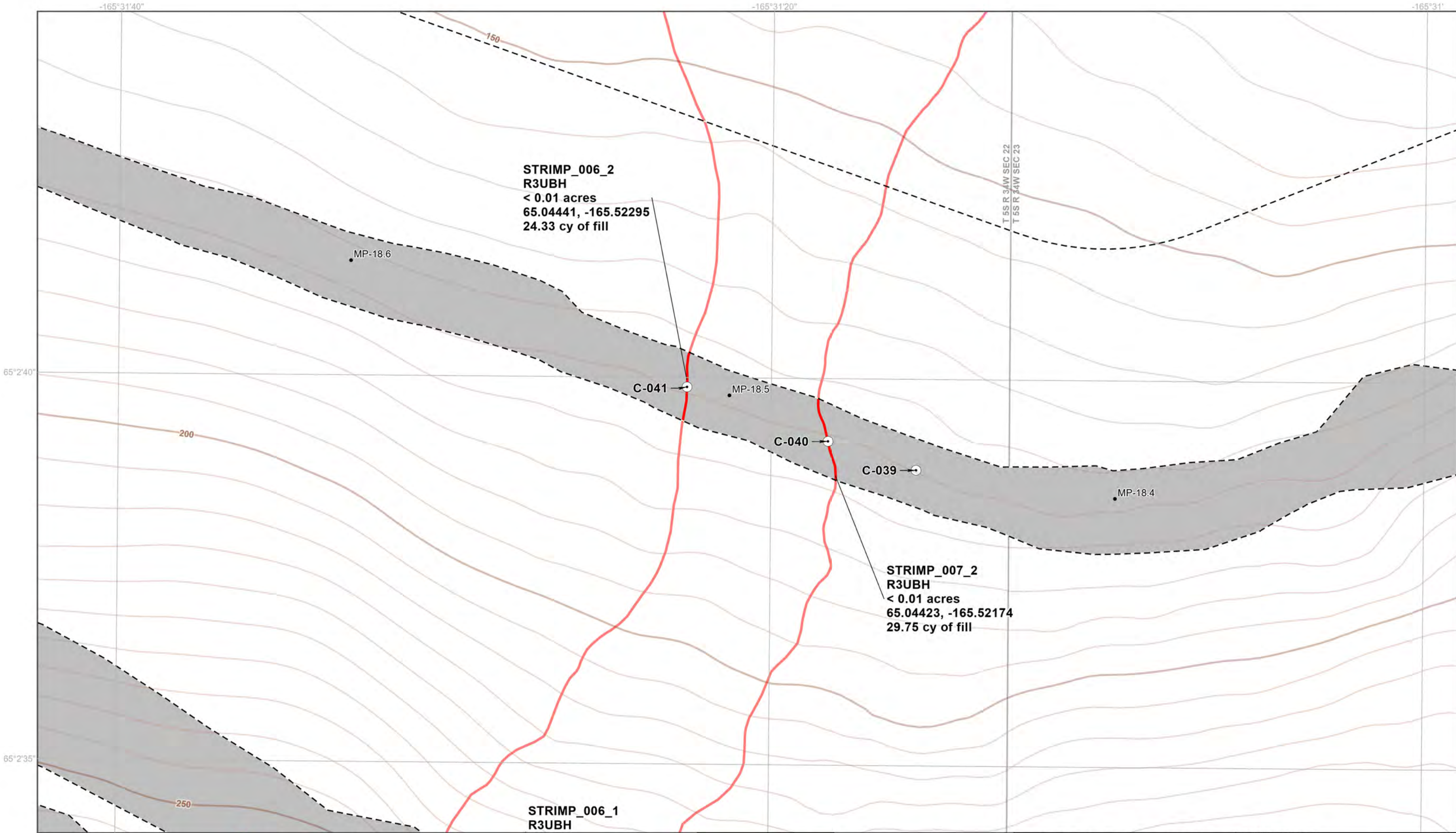
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1:1,400

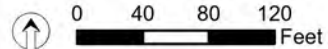
NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT	
APPLICANT: GRAPHITE ONE ALASKA, INC.	
LAT., LONG. OF PROJECT: VARIES	PROPOSED ACTIVITY: MINE AND ROAD CONSTRUCTION
WATERWAY: IMURUK	FILE NO. POA-2018-00210

DRAWING TITLE: WOTUS IMPACTS DETAIL	
DATE: JUNE 2025	FIGURE NO. D-007



- Project Milepost
- ▬ Permanent Disturbance Limit
- - - Potential Vegetation Clearing Limit
- Stream Culvert
- Jurisdictional Stream Impact
- Jurisdictional Stream
- 5 Meter Contours

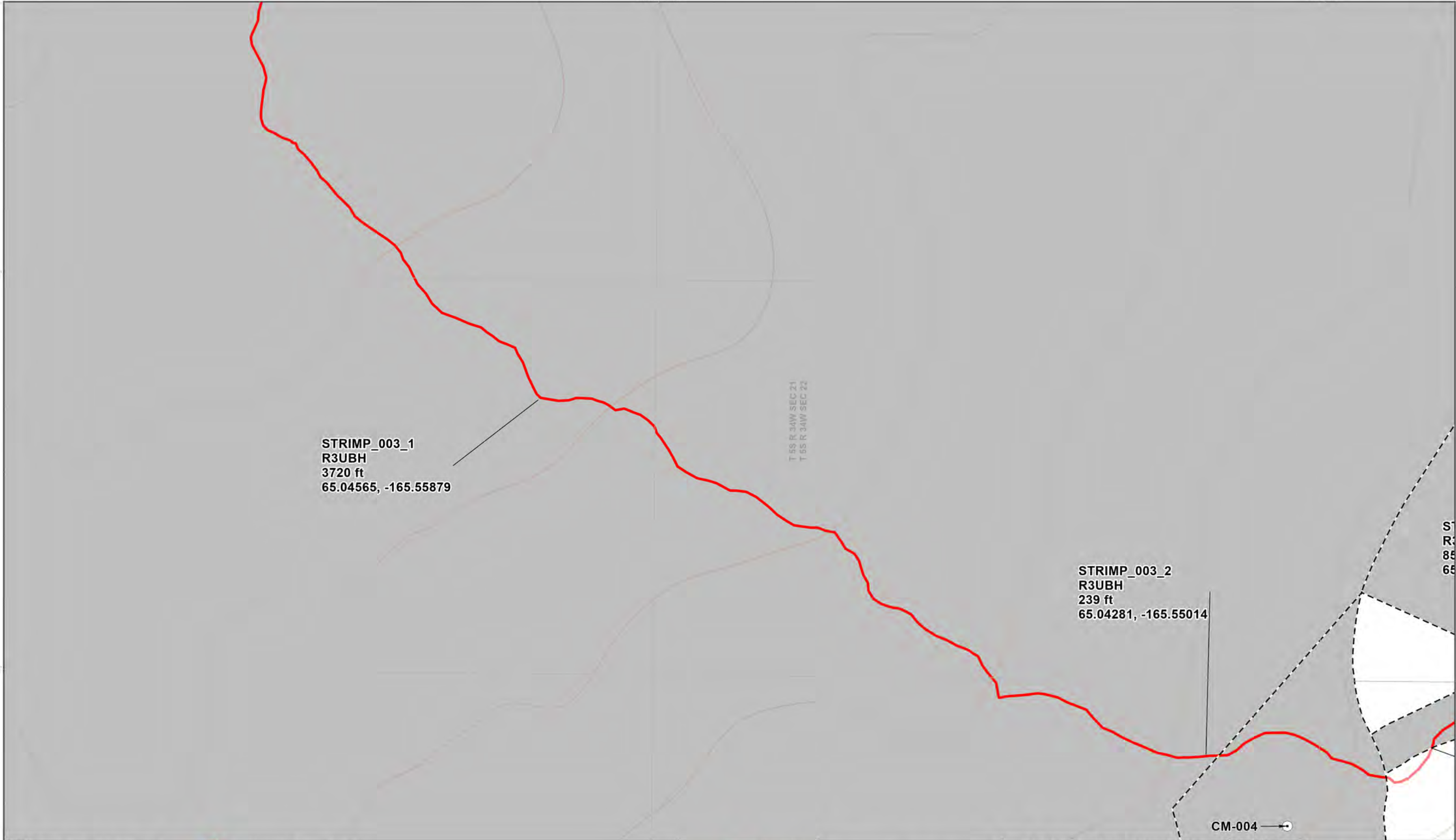


1:1,400

NAD 1983 UTM Zone 3N

GRAPHITE CREEK PROJECT	
APPLICANT: GRAPHITE ONE ALASKA, INC.	
LAT., LONG. OF PROJECT: VARIES	PROPOSED ACTIVITY: MINE AND ROAD CONSTRUCTION
WATERWAY: COBBLESTONE RIVER	FILE NO. POA-2018-00210

DRAWING TITLE:	
WOTUS IMPACTS DETAIL	
DATE: JUNE 2025	FIGURE NO. D-008



		GRAPHITE CREEK PROJECT APPLICANT: GRAPHITE ONE ALASKA, INC.		DRAWING TITLE: WOTUS IMPACTS DETAIL	
		LAT., LONG. OF PROJECT: VARIES	PROPOSED ACTIVITY: MINE AND ROAD CONSTRUCTION	DATE: JUNE 2025	FIGURE NO. D-009
1:1,400 NAD 1983 UTM Zone 3N		WATERWAY: IMURUK	FILE NO. POA-2018-00210		