



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Fish and Game

HABITAT SECTION
Southcentral Regional Office

333 Raspberry Road
Anchorage, Alaska
Main: 907.267.2342
Fax: 907.267.2499

FISH HABITAT PERMIT FH25-II-0081

ISSUED: May 23, 2025
EXPIRES: Life of Structure

Alaska Railroad Company
Attn: Brian Lindamood
P.O. Box 107500
Anchorage, AK 99510

RE: Culvert Replacement
Unnamed Waterbody (Water Body No. 247-60-10236)
Section 14, T 9 N, R 2 E, SM
Location: 60.873852 N, 149.037390 W
Culvert No: 20300227

Dear Brian Lindamood:

Pursuant to the Anadromous Fish Act at AS 16.05.871 (b), the Alaska Department of Fish and Game (ADF&G) Habitat Section has reviewed your proposal to replace a culvert in an unnamed waterbody north of Portage.

Project Description

The Alaska Railroad Corporation (ARRC) proposes to replace a culvert at rail milepost 67.51 located just north of the Twentymile River. The culvert in place is a deteriorated 36-inch corrugated metal pipe (submerged) that measures 61 feet long. The culvert will be replaced with a 63-foot long, 36-inch diameter smooth steel pipe culvert installed at a 0.4% slope (Sheets 6 and 7 of 7). The creek is tidally influenced at this location with water flowing in opposite directions at various times depending on tide elevations.

About 70 cubic yards of material will be excavated below mean high water (MHW) to remove the existing culvert and prepare the site for the new culvert. About 86 cubic yards of fill will be backfilled during installation of the new pipe with about 54 cubic yards of that being new and clean fill for proper bedding. Additionally, 16 cubic yards of Class 1 riprap will be placed below MHW at the inlet and outlet for energy dispersion and erosion protection (Sheets 6 and 7 of 7).

Construction means and methods, such as temporary construction work pads, site isolation, and diversion or pumping will be determined by the selected contractor and permitted separately.

Anadromous Fish Act

Water Body No. 247-60-10236 has been specified as being important for the spawning, rearing, or migration of anadromous fishes pursuant to AS 16.05.871(a). The water body provides habitat for coho salmon and Dolly Varden.

In accordance with AS 16.05.871(d), your project is approved subject to the project description, the following stipulations, and the permit terms.

1. The culvert shall be designed, installed, and maintained to accommodate the efficient passage and movement of fish, both upstream and downstream, for the life of the structure.
2. Work areas shall be isolated from the flowing waters of the creek at all times during construction. The stream reach downstream of the culvert installation shall be supplied with a constant flow of clean water sufficient to maintain fish passage downstream of the work area.
3. In-water work in the flowing water of the creek will be completed between June 15 and August 1 unless otherwise authorized by the Habitat Section.
4. A plan for diversion, construction sequencing, and stranded fish rescue shall be submitted to the Habitat Section a minimum of 2 weeks prior to construction for review and approval via amendment to this permit.
5. The ADF&G Habitat shall be notified by email (josh.brekken@alaska.gov) or telephone (907-267-2113) at least 10 working days prior to beginning the permitted activities.

Permit Terms

This letter constitutes a permit issued under the authority of AS 16.05.871 and must be retained on site during project activities. Please be advised that this determination applies only to activities regulated by the Habitat Section; other agencies also may have jurisdiction under their respective authorities. This determination does not relieve you of your responsibility to secure other permits; state, federal, or local. You are still required to comply with all other applicable laws.

You are responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project. For any activity that significantly deviates from the approved plan, you shall notify the Habitat Section and obtain written approval in the form of a permit amendment before beginning the activity. Any action that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any provision contained in this permit will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the Habitat Section. Therefore, we recommend you consult the Habitat Section immediately before considering any deviation from the approved plan.

You shall give an authorized representative of the state free and unobstructed access to the permit site, at safe and reasonable times, for the purpose of inspecting or monitoring compliance

with any provision of this permit. You shall furnish whatever assistance and information the authorized representative reasonably requires for monitoring and inspection purposes.

In addition to the penalties provided by law, this permit may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. You shall mitigate any adverse effect upon fish or wildlife, their habitats, or any restriction or interference with public use that the commissioner determines was a direct result of your failure to comply with this permit or any applicable law.

You shall indemnify, save harmless, and defend the department, its agents, and its employees from any and all claims, actions, or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or your performance under this permit. However, this provision has no effect if, and only if, the sole proximate cause of the injury is the department's negligence.

You may appeal this permit decision relating to AS 16.05.871 in accordance with the provisions of AS 44.62.330-630.

Please direct questions about this permit to Habitat Biologist Josh Brekken at (907) 267-2113 or josh.brekken@alaska.gov.

Sincerely,
Doug Vincent-Lang
Commissioner



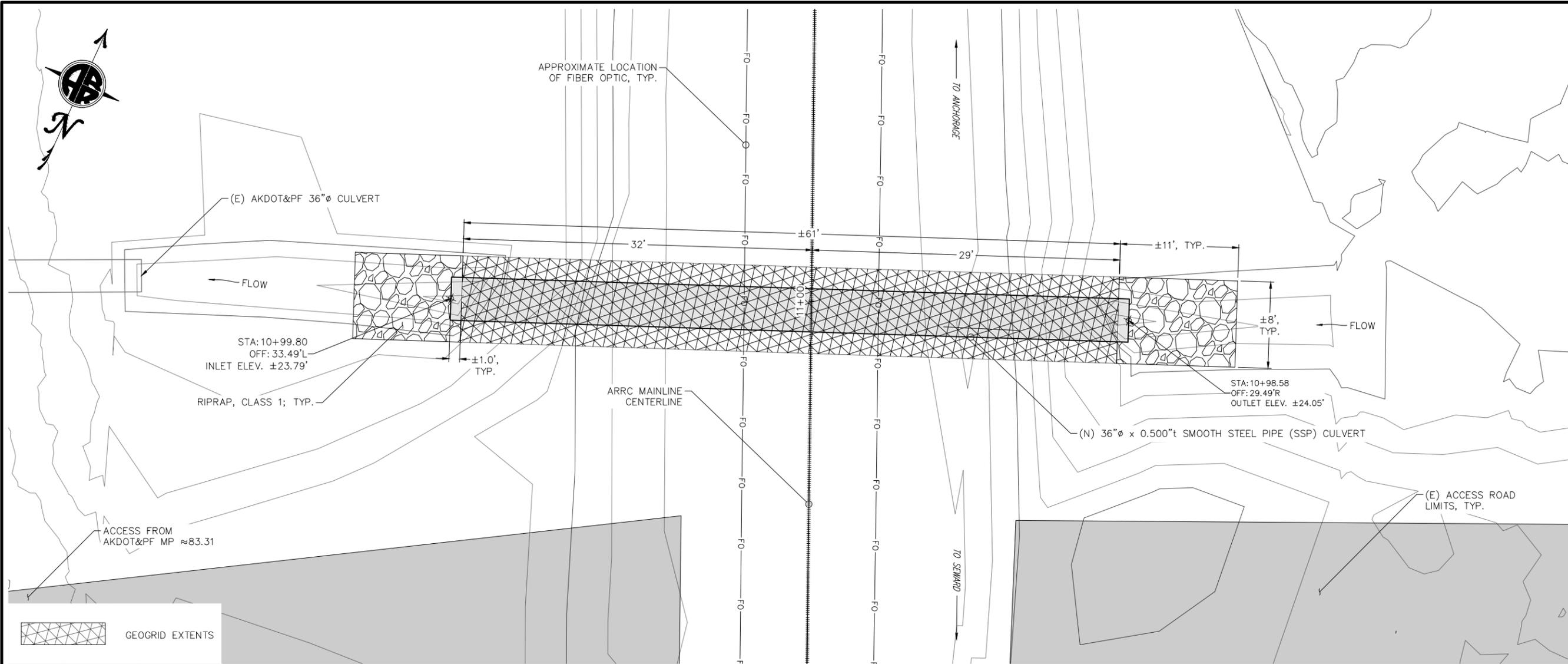
By Ken Bouwens
Southcentral Regional Supervisor

Enclosures: Sheets 6 and 7 of 7
Site Photographs

Email cc:

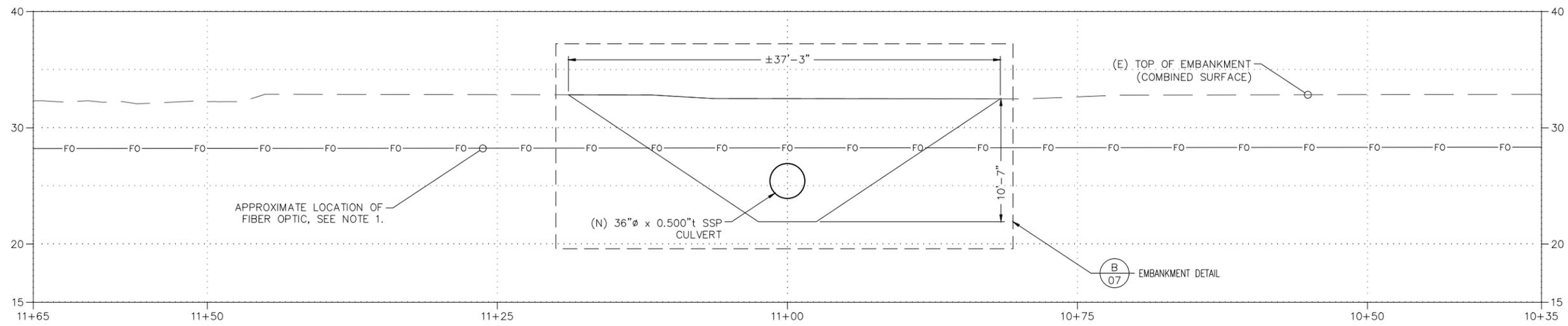
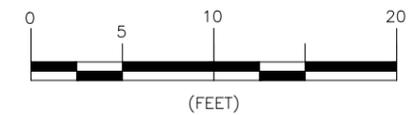
A. Ott, ADF&G
B. Blain, ADF&G
C. Larson, ADNR DMLW
J. Rypkema, ADEC
USACE, Regulatory
DPS/AWT, Anchorage
N. Havelock, AKRR

DRAWING LOCATION: P:\ENGINEERING\CULVERTS\CU_067_51\CULVERT REPLACEMENT IFC_REV1.DWG
 DATE: 5/1/2025 2:03 PM
 TIME: 2:03 PM
 SCALE: AS NOTED
 PUBLISHED: CTB
 ARRC_CTB_2023.CTB



- NOTES:
- CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.
 - RAIL NOT SHOWN FOR CLARITY.

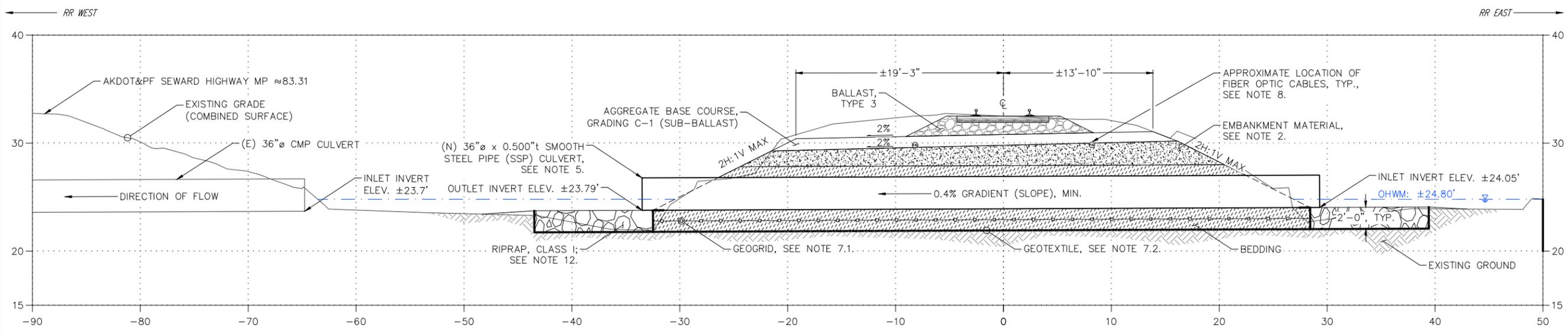
A CULVERT MP 67.51 PROPOSED PLAN
 06 SCALE: AS NOTED



B CULVERT MP 67.51 EXCAVATION PROFILE
 06 SCALE: AS NOTED

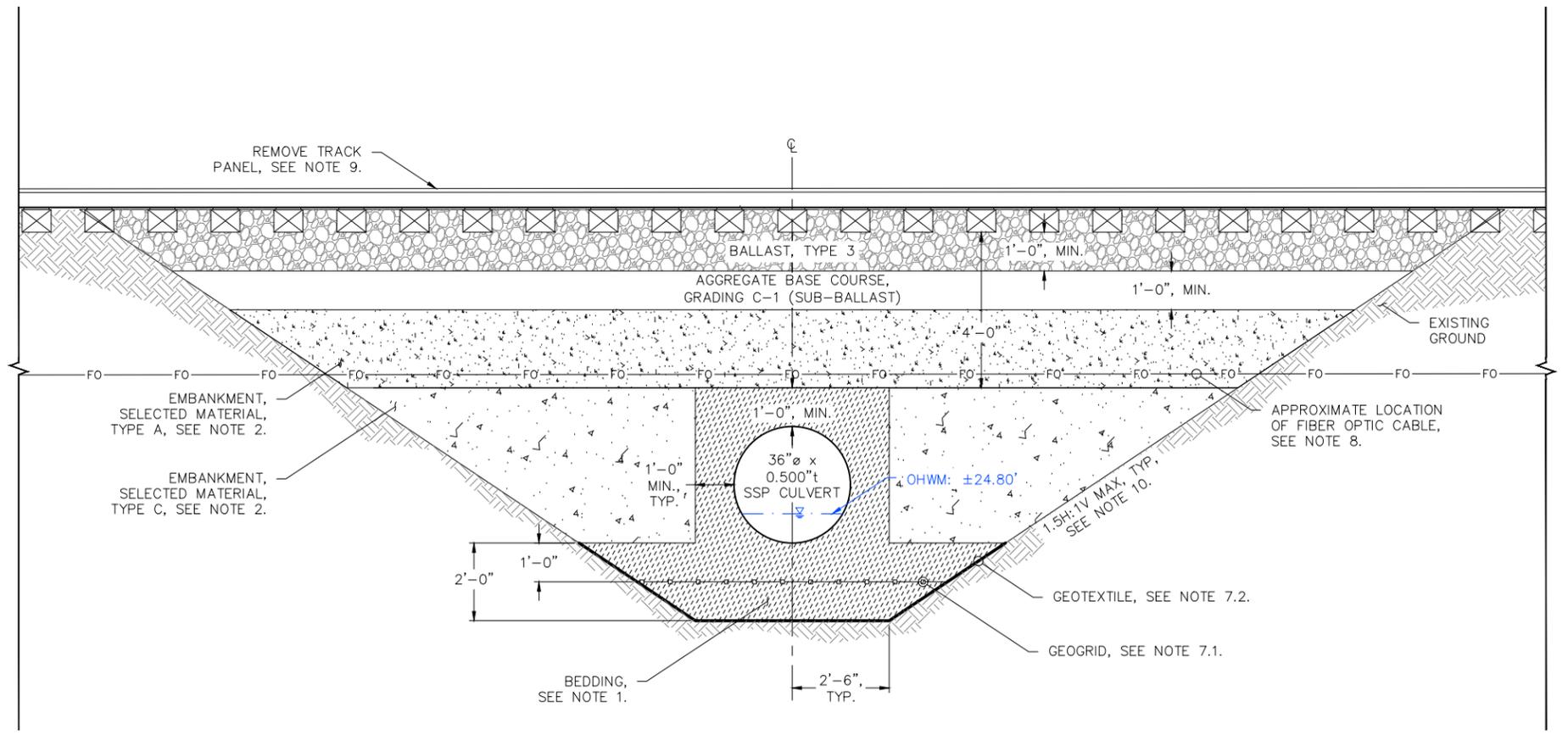
DESIGNED BY:	EDW
CHECKED BY:	BAO
DRAFTED BY:	EDW
ALASKA RAILROAD CORPORATION PO BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
ENGINEERING DEPARTMENT	P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500
PROJECT:	MP 67.51 CULVERT REPLACEMENT
SHEET TITLE:	PROPOSED PLAN AND EXCAVATION PROFILE
AFE NO.	11362
YEAR	2025
SHEET	06 of 07

DRAWING LOCATION: P:\ENGINEERING\CULVERTS\CU_067_51\CULVERT REPLACEMENT IFC_REV1.DWG
 PUBLISHED CTB: ARRC_CTIB_2023.CTIB
 SCALE: AS NOTED
 DATE: 5/1/2025 2:04 PM
 TIME: 2:04 PM
 DESIGNED BY: EDW
 CHECKED BY: BAO
 DRAFTED BY: EDW



A CULVERT MP 67.51 SECTION VIEW
SCALE: AS NOTED

- MATERIAL NOTES:**
- BEDDING: SELECTED MATERIAL, TYPE A IN ACCORDANCE WITH SUBSECTION 703-2.07.
 - EMBANKMENT: SELECTED MATERIAL IN ACCORDANCE WITH SUBSECTION 703-2.07, FOR THE TYPE SPECIFIED BELOW (BASED ON ITS LOCATION RELATIVE TO THE BOTTOM OF TIE):
 - 2.0' TO -4.0': TYPE A.
 - 4.0' AND DEEPER: TYPE C.
 - ALL EXCAVATED MATERIALS ARE TO BE CONSIDERED UNCLASSIFIED MATERIAL UNTIL CLASSIFIED.
 - UNCLASSIFIED EXCAVATION (NATIVE MATERIAL) MAY BE USED IN THE EMBANKMENT WHEN ITS MEETS THE REQUIREMENTS OF SUBSECTION 703-2.07 FOR THE TYPE SPECIFIED.
 - SUB-BALLAST: AGGREGATE BASE COURSE, GRADING C-1 IN ACCORDANCE WITH SUBSECTION 703-2.03.
 - BALLAST: TYPE 3 IN ACCORDANCE WITH SUBSECTION 703-2.17.
 - SSP CULVERT IN ACCORDANCE WITH SUBSECTION 715.
 - RIPRAP: CLASS I IN ACCORDANCE WITH SUBSECTION 611-2.01.
 - GEOSYNTHETICS:
 - GEGRID: REINFORCEMENT, CLASS 1 IN ACCORDANCE WITH SUBSECTION 729-2.04.
 - GEOTEXTILE: SEPERATAION, CLASS 3 IN ACCORDANCE WITH SUBSECTION 729-2.01.
- CONSTRUCTION NOTES:**
- CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.
 - FIBER OPTIC UTILITIES ASSUMED TO BE ON BOTH SIDES OF THE RAIL.
 - RAIL:
 - REMOVAL:
 - PROTECT EXISTING BALLAST OUTSIDE EXCAVATION LIMITS FROM CONTAMINATION WITH OTHER AGGREGATE OR SOIL.
 - WHEN ESTABLISHED RAIL JOINTS ARE NOT WITHIN THE PROJECT LIMITS, COORDINATE WITH ARRC MOW FORCES, IN ACCORDANCE WITH SUBSECTION 107-1.08, TO DETERMINE THE LOCATION OF CUTS.
 - CUT RAIL IN ACCORDANCE WITH SUBSECTION 802-3.05.3 AND JOINT IN ACCORDANCE WITH SUBSECTION 802-3.05.4.
 - REPLACEMENT:
 - REPLACE EVERY THIRD TIE PRIOR TO COMPLETING FINAL SURFACING IN ACCORDANCE WITH SECTION 802.
 - SLOPES STEEPER THAN 4:1, WHEN MEASURED AT RIGHT ANGLES TO THE RAILWAY, ARE TO BE BENCHED IN ACCORDANCE WITH SUBSECTION 203-3.03.
 - WIRE OR TIMBER STRUTTING, OR ANY OTHER TYPE OF DUNNAGE: MAY BE USED TO FACILITATE THE INSTALLATION OF PIPE CULVERTS BUT WILL REQUIRE APPROVAL FROM ENGINEERING SERVICES PRIOR TO IMPLEMENTATION. IF APPROVED, MATERIALS WILL BE REMOVED IMMEDIATELY AFTER INSTALLATION OF THE PIPE CULVERT AND PRIOR TO COMMENCING BACKFILL OPERATIONS.
 - RIPRAP:
 - PLACE A MINIMUM OF 1.0' OF RIPRAP UNDER THE PIPE INLET AND OUTLET, AS MEASURED HORIZONTALLY FROM THE INVERT TOWARD THE CENTERLINE OF TRACK.
 - PLACE EXISTING STREAM SUBSTRATE MATERIAL OVER PLACED RIPRAP AND USE IT TO TIE INTO THE EXISTING GROUND.



B CULVERT MP 67.51 EMBANKMENT DETAIL PROFILE VIEW
SCALE: AS NOTED

- UTILITIES:**
- VERIFY ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
 LOCATE CALL CENTER OF ALASKA (811):
 - ANCHORAGE1.907.278.3121
 - STATEWIDE1.800.478.3121
 CALL CENTER WILL NOTIFY SUBSCRIBED UTILITIES ONLY,
 OTHER UTILITIES NEED TO BE CONTACTED INDIVIDUALLY.

DESIGNED BY:	EDW
CHECKED BY:	BAO
DRAFTED BY:	EDW
ALASKA RAILROAD CORPORATION P.O. BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
ENGINEERING DEPARTMENT	P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500
PROJECT:	MP 67.51 CULVERT REPLACEMENT
SHEET TITLE:	SECTION VIEW BEDDING AND BACKFILL
AFE NO.	11362
YEAR	2025
SHEET	07 of 07

**ARRC – MP 67.51 Culvert Replacement Project
Site Photographs**



Photo 1. MP 67.51 culvert inlet area during 33ft high tide

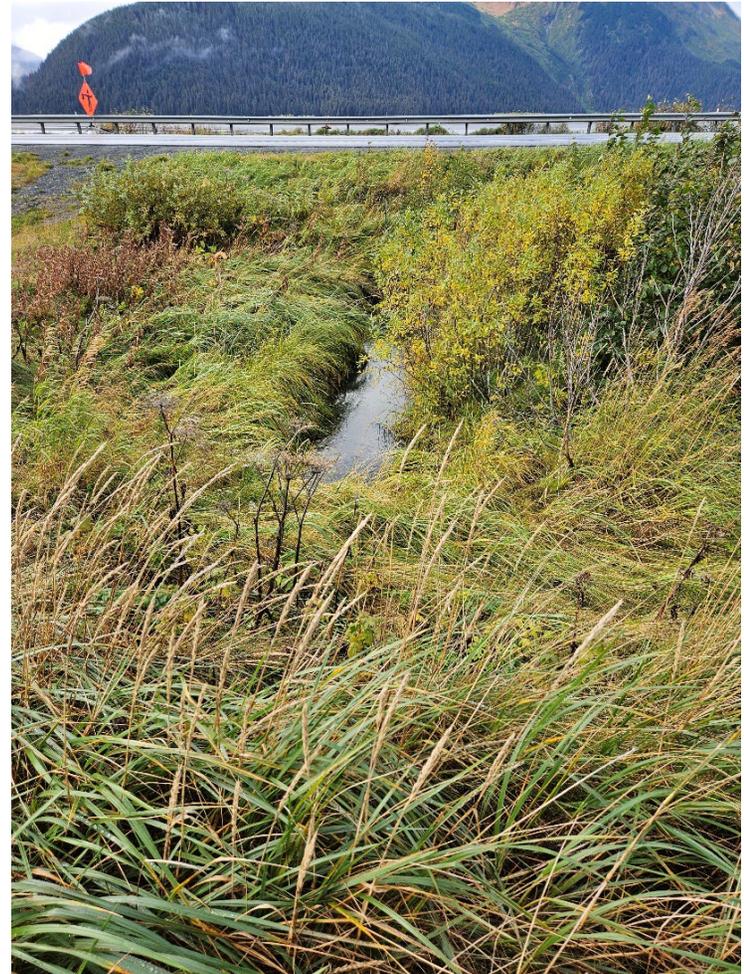


Photo 2. Looking south from above culvert 67.51 outlet

**ARRC – MP 67.51 Culvert Replacement Project
Site Photographs**



Photo 3. MP 67.51 culvert outlet