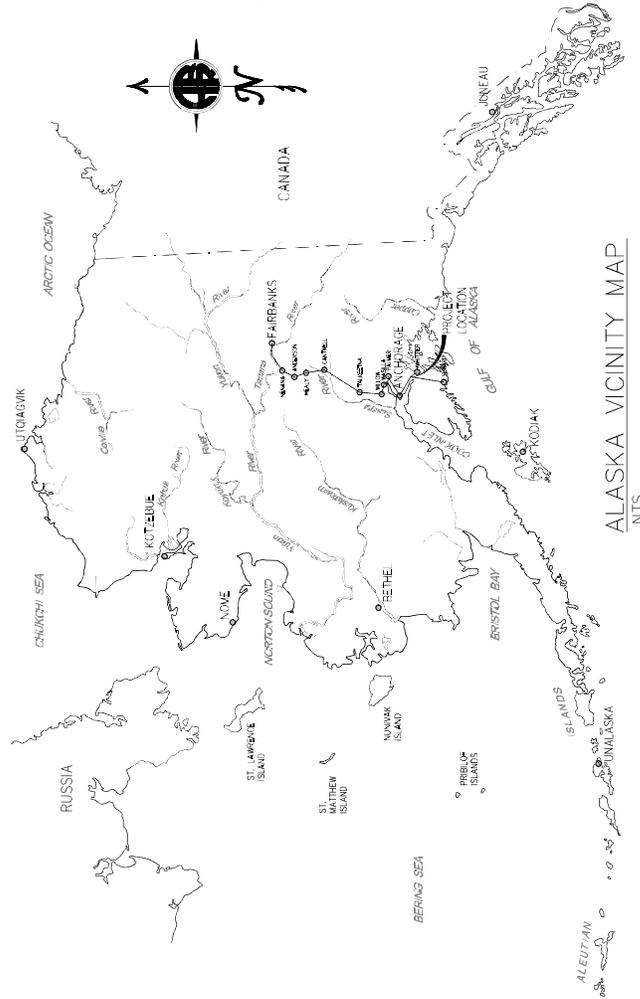


ALASKA RAILROAD CORPORATION

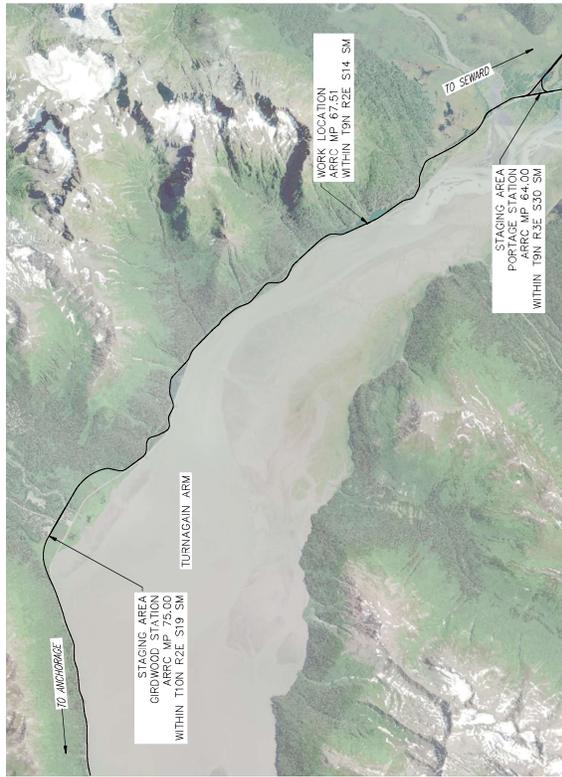
ENGINEERING SERVICES
 P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

MP 67.51 CULVERT REPLACEMENT ISSUED FOR CONSTRUCTION

APRIL 2025



ALASKA VICINITY MAP
 NTS



SITE MAP
 NTS

| SHEET NUMBER | SHEET LIST TABLE | SHEET TITLE |
|--------------|--------------------------------------|-------------|
| 01 | COVER SHEET | |
| 02 | ABBREVIATIONS AND LEGEND | |
| 03 | ESTIMATE OF QUANTITIES | |
| 04 | SITE LOCATION | |
| 05 | EXISTING SITE PLAN | |
| 06 | PROPOSED PLAN AND EXCAVATION PROFILE | |
| 07 | SECTION VIEW BEDDING AND BACKFILL | |

| | | | | |
|------------------|------------------------------|-----------------------------|------------------------------|----------------|
| DESIGNED BY: EDW | ENGINEERING DEPARTMENT | ALASKA RAILROAD CORPORATION | COVER SHEET | SHEET TITLE: |
| CHECKED BY: BAO | ANCHORAGE, ALASKA 99510-7500 | 2101 BOX 107500 | MP 67.51 CULVERT REPLACEMENT | PROJECT: |
| DRAFTED BY: EDW | | 327 N. SIEMENS AVE | | ARE NO. 11362 |
| | | ANCHORAGE, AK 99501 | | YEAR 2025 |
| | | (907) 258-1234 | | SHEET 01 of 07 |

ALASKA RAILROAD CORPORATION
 P.O. BOX 107500, ANCHORAGE, AK
 99510-7500
 327 N. SIEMENS AVE
 ANCHORAGE, AK 99501
 (907) 258-1234

KEY MAP
 FAIRBANKS
 ANCHORAGE
 MP 67.51
 SEWARD

| ABBREVIATIONS | ABBREVIATIONS (CONT.) |
|---|--|
| AKDOT & PF | 0-0 |
| ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES | OUT-TO-OUT |
| APPROXIMATE | PASSSENGER |
| AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION | POINT OF CURVATURE |
| AREMA | POUNDS PER CUBIC FOOT |
| ARBC | POINT OF BEGINNING |
| ALASKA RAILROAD CORPORATION | POINT OF END |
| ASTM | POINT OF TANGENT |
| AMS | POLYTETRAFLUOROETHYLENE |
| AMERICAN WELDING SOCIETY | POUNDS PER SQUARE INCH |
| BA | POUNDS PER SQUARE FOOT |
| BALUST DECK | POINT OF VERTICAL INTERSECTION |
| BEST MANAGEMENT PRACTICE | RADIUS |
| BEGINNING OF PROJECT | ROLLED BEAM BALLAST DECK |
| B.R. | RAILROAD |
| BRIDGE | CURVE RIGHT |
| BEGN VERTICAL CURVE ELEVATION | RIGHT OF WAY |
| BEGN VERTICAL CURVE STATION | STEEL BEAM |
| BNCS | POINT OF SPIRAL TO CURVE |
| € | SPACE OR SPACING |
| C-C | SPIRAL POINT OF INTERSECTION |
| C-C-C | STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION |
| CC | SMOOTH STEEL PIPE |
| CMP | STEEL STRUCTURES PAINTING COUNCIL |
| C.P. | POINT OF SPIRAL TO TANGENT |
| CRSI | STATION |
| CONCRETE REINFORCING STEEL INSTITUTE | TANGENT LENGTH |
| CS | TOP OF XXX (T/IE, T/CAP, ETC.) |
| Dc | TOP OF RAIL |
| Dc | TOTAL HORIZONTAL CURVE POINT OF INTERSECTION |
| DA | TIMBER PILE TRESTLE |
| DIAMETER | POINT OF TANGENT TO SPIRAL |
| EXISTING | THROUGH TRUSS |
| EXPANSION | TYPICAL |
| E OR EXP | VELOCITY |
| Eo | VERTICAL |
| ELEV. OR EL | CENTRAL ANGLE OF CIRCULAR CURVE |
| E.O.P. | TOTAL ANGLE OF DIVERGENCE |
| Eu | ANGLE OF SPIRAL CURVE |
| END OF PROJECT | |
| SUPERELEVATION UNBALANCED | |
| END VERTICAL CURVE ELEVATION | |
| END VERTICAL CURVE STATION | |
| F OR FIX | |
| FINISHED GRADE | |
| GALV. | |
| GALVANIZED | |
| GR | |
| HORIZ. | |
| H.S. | |
| HIGH STRENGTH | |
| INV. | |
| INVERT | |
| K | |
| "K" VALUE | |
| LC | |
| LENGTH OF CENTRAL CURVE | |
| LF | |
| LINEAR FEET | |
| LS | |
| LENGTH OF SPIRAL CURVE OR LUMP SUM | |
| LT | |
| CURVE LEFT | |
| LVC | |
| LENGTH OF VERTICAL CURVE | |
| MIN. | |
| MINIMUM | |
| MISC. | |
| MISCELLANEOUS | |
| MK | |
| MARK | |
| MP | |
| MILEPOST | |
| (N) | |
| NEW OR PROPOSED | |
| OD | |
| OPEN DECK | |
| OWHM | |
| ORDINARY HIGH WATER MEASURED | |

| ABBREVIATIONS | ABBREVIATIONS (CONT.) |
|----------------------------------|-----------------------|
| SEN | EXISTING |
| PI | PROPOSED |
| RIGHT OF WAY | |
| GROUNDLINE | |
| TRACK & | |
| ROADWAY & | |
| CHAIN LINK FENCE | |
| FILL LIMITS | |
| EXCAVATION LIMITS | |
| STRUCTURE | |
| EXISTING STRUCTURE TO BE REMOVED | |
| UTILITIES | |
| EXISTING | |
| PROPOSED | |
| POWER POLE | |
| ELECTRICAL PEDIESTAL | |
| GUY ANCHOR | |
| FIBER OPTIC VAULT | |
| OVERHEAD POWER | |
| FIBER OPTIC LINE | |
| MAJOR CONTOUR | |
| MINOR CONTOUR | |

| GENERAL | GENERAL |
|---------------------|---------------------|
| LETTER SERIES | LETTER SERIES |
| SHEET NUMBER | SHEET NUMBER |
| SECTION DESIGNATION | SECTION DESIGNATION |
| EXISTING | EXISTING |
| PROPOSED | PROPOSED |
| DETAIL DESIGNATION | DETAIL DESIGNATION |

ENGINEERING DEPARTMENT
 615 BOX 107500
 ANCHORAGE, ALASKA 99510-7500

ALASKA RAILROAD

PROJECT: MP 67.51 CULVERT REPLACEMENT
 SHEET TITLE: ABBREVIATIONS AND LEGEND

DESIGNED BY: EDW
 CHECKED BY: BAO
 DRAFTED BY: EDW

PROJECT: A/E NO. 11362
 YEAR 2025
 SHEET 02 OF 07

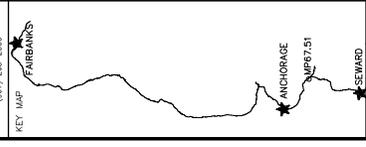
KEY MAP
 ANCHORAGE, ALASKA
 327 N. Seward Ave.
 ANCHORAGE, AK 99501
 (907) 263-1111

MP 67.51 CULVERT REPLACEMENT

PROJECT STATIONS: 9+50 TO 12+50

DESIGNED BY: EDW
 CHECKED BY: BAO
 DRAFTED BY: EDW

ALASKA RAILROAD CORPORATION
 400 BOULEVARD
 98510-2906 AVE
 ANCHORAGE, AK 99501
 (907) 243-4000



ENGINEERING DEPARTMENT
 210 BOX 007500
 ANCHORAGE, ALASKA 99510-7500

PROJECT: MP 67.51 CULVERT REPLACEMENT
 SHEET TITLE: ESTIMATE OF QUANTITIES

A/E NO. 11362
 YEAR 2025
 SHEET 03 of 07

| PAY ITEM | ITEM DESCRIPTION | PAY UNIT | TOTAL QUANTITY |
|------------|--|----------|----------------|
| 201.0009.2 | CLEARING AND GRUBBING | LS | 1 |
| 202.0018.2 | REMOVAL OF CULVERT PIPE | LS | 1 |
| 203.0003.2 | UNCLASSIFIED EXCAVATION | CY | 480 |
| 203.0006.3 | SELECTED MATERIAL, TYPE A | TON | 300 |
| 203.0006.4 | SELECTED MATERIAL, TYPE C | TON | 180 |
| 301.0001.2 | AGGREGATE BASE COURSE, GRADING C-1 (SUB-BALLAST) | TON | 120 |
| 309.0001.2 | BALLAST, TYPE 3 | TON | 110 |
| 505.0005.2 | FURNISH SSP CULVERT, 36" X 0.500"t | LF | 63 |
| 603.0017.2 | INSTALL SSP CULVERT, 36" X 0.500"t | LF | 63 |
| 611.0001 | RIPRAP, CLASS 1 | CY | 16 |
| 630.0001.2 | GEOTEXTILE, SEPARATION, CLASS 3 | SY | 120 |
| 634.0002.2 | GEORID, REINFORCEMENT, CLASS 1 | SY | 60 |
| 640.0001.2 | MOBILIZATION AND DEMOBILIZATION | LS | 1 |
| 642.0001.2 | CONSTRUCTION SURVEYING | LS | 1 |
| 643.0002.2 | TRAFFIC MAINTENANCE | LS | 1 |
| 646.0001.2 | CPM SCHEDULING | LS | 1 |
| 647.0001.2 | AS-BUILT DRAWINGS AND SPECIFICATIONS | LS | 1 |
| 802.0003.2 | TRACK WORK, 115RE RAIL | LS | 1 |
| 802.0005.2 | TRACK TAMING, SURFACING, AND FINAL DRESSING | TF | 300 |
| 803.0002.2 | TRACK REMOVAL | LS | 1 |

* NOTE: PAY ITEM QUANTITIES ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFFS USING THE INFORMATION WITHIN THE CONTRACT DOCUMENTS TO VERIFY THE QUANTITIES LISTED HEREON.

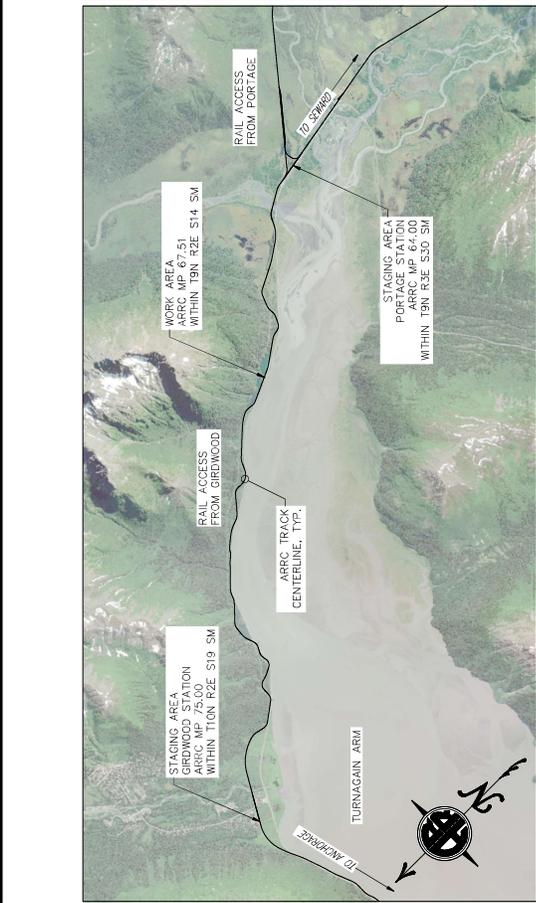
| ITEM NO. | ITEM DESCRIPTION | ESTIMATING FACTOR |
|----------|------------------------------------|------------------------|
| 203.0006 | SELECTED MATERIAL | 135 LB/FT ³ |
| 207.0001 | BALLAST, TYPE 3 | 140 LB/FT ³ |
| 301.0002 | AGGREGATE BASE COURSE, GRADING C-1 | 144 LB/FT ³ |

| DESCRIPTION | UNIT | QUANTITY |
|---|------|-----------|
| TIMBER TRACK TIES 7"x9"x8"-6" | EA | 20 |
| MISC. TRACK MATERIAL (TIE PLATES, ETC.) | CS | ALL REQ'D |

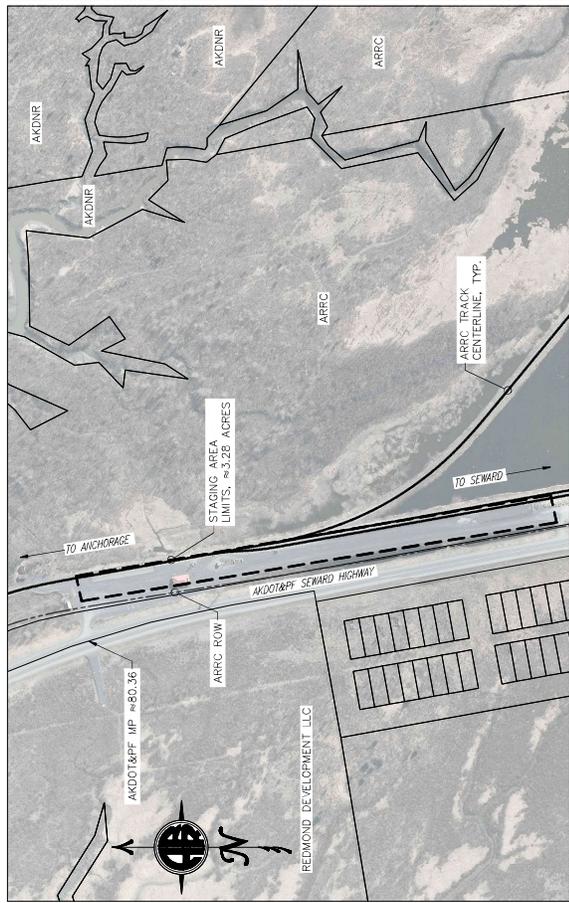
1. ITEMS AND WORK QUANTITIES PROVIDED BY ARRC MAY BE CONTRACTOR PROVIDED; SEE CONTRACT DOCUMENTS.



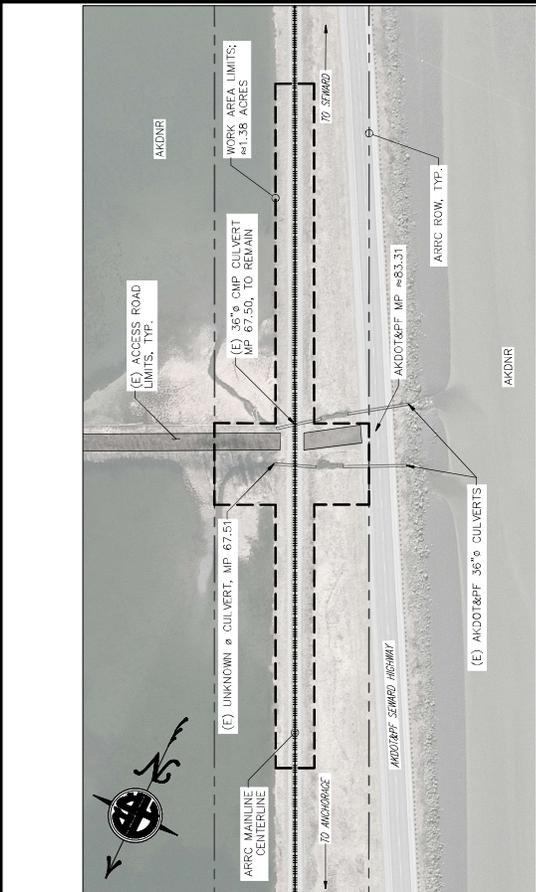
ENGINEERING DEPARTMENT
 210 BOX 007500
 ANCHORAGE, ALASKA 99510-7500



A SITE LOCATION
 04 NTS



C MP 64.00 - PORTAGE STAGING AREA
 04 NTS



B MP 67.51 - WORK AREA LIMITS
 04 NTS

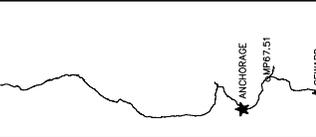


D MP 75.00 - GIRDWOOD STAGING AREA
 04 NTS

| | | |
|------------------|-----------------|-----------------|
| DESIGNED BY: EDW | CHECKED BY: BAO | DRAFTED BY: EDW |
|------------------|-----------------|-----------------|

ALASKA RAILROAD AUTHORITY
 1000 EAST 10TH AVENUE
 ANCHORAGE, AK 99501
 (907) 257-5000

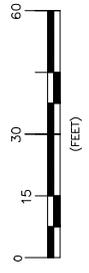
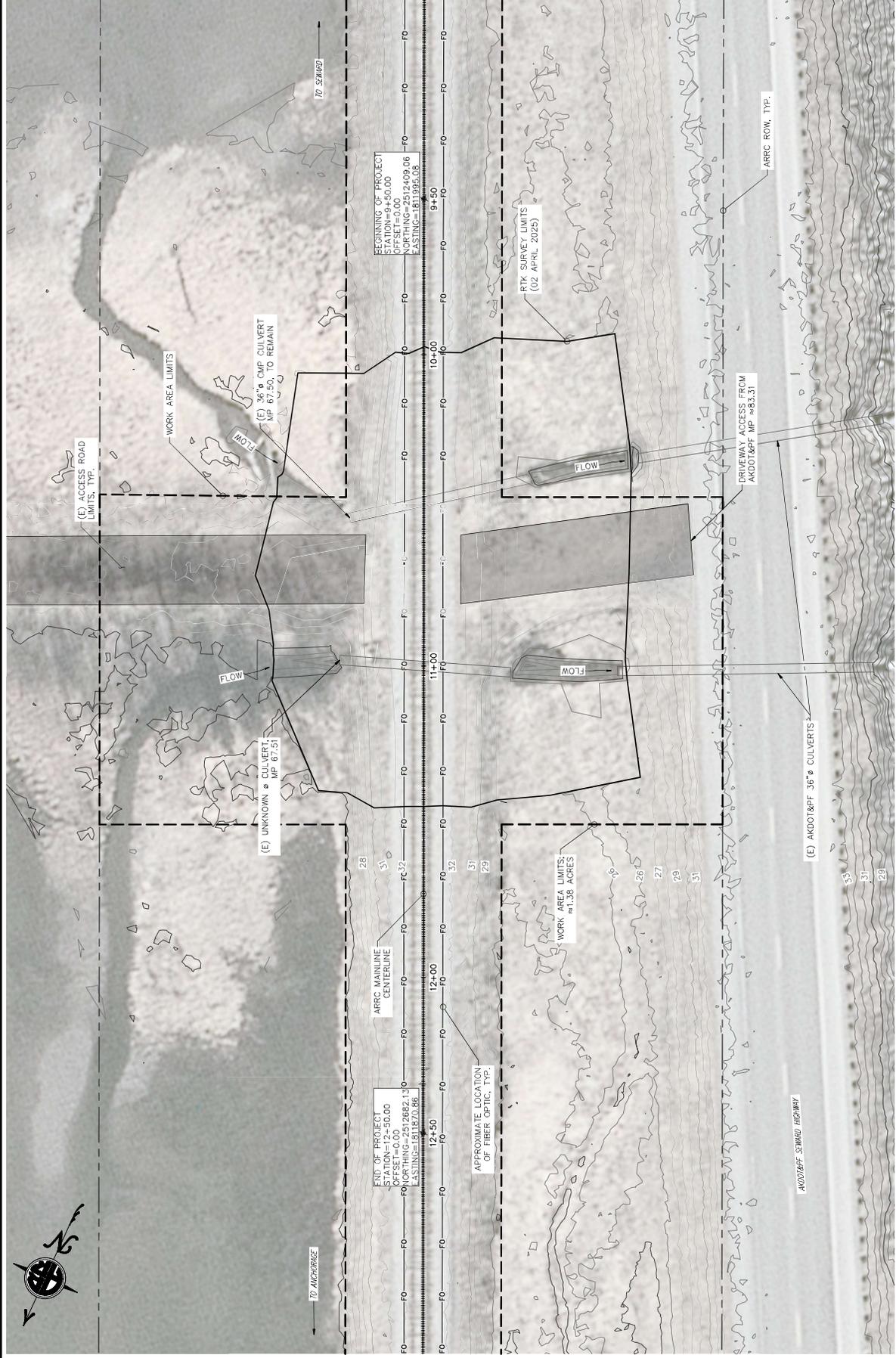
KEY MAP
 FARRANS



| | | |
|--|---|--------------|
| PROJECT: ALASKA RAILROAD AUTHORITY ENGINEERING DEPARTMENT 615 BOX 107500 ANCHORAGE, ALASKA 99510-7500 | SITE LOCATION MP 67.51 CULVERT REPLACEMENT | SHEET TITLE: |
|--|---|--------------|

| | | |
|----------------|-----------|----------------|
| FILE NO. 11362 | YEAR 2025 | SHEET 04 of 07 |
|----------------|-----------|----------------|

DESIGNED BY: EDW
 CHECKED BY: BAO
 DRAFTED BY: EDW



A 05 CULVERT MP 67.51 EXISTING SITE PLAN

SCALE: AS NOTED

- NOTES:
- HORIZONTAL DATUM IS ALASKA STATE PLANE COORDINATE SYSTEM ZONE 4, NAD83(2011).
 - VERTICAL DATUM IS NAVD83(2011).
 - THE RTK SURVEY LIMITS ARE BASED ON 2015 LIDAR DATA PROVIDED BY MOA.

