

FINAL
ROADBELT INTERTIE
RECONNAISSANCE ENGINEERING REPORT

CONTRACT TFSADNC17D0001, DELIVERY ORDER 20342920F00002

23 NOVEMBER 2020



NOTE

**THIS PROJECT WAS A HIGH-LEVEL TECHNICAL
FEASIBILITY STUDY TO DEVELOP A COST ESTIMATE
AND DOES NOT PROPOSE A SPECIFIC ROUTE.**

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APPENDICES

Appendix A EPS Engineering Report

Appendix B Public Awareness Flyer

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ACRONYMS AND ABBREVIATIONS

ACEP	Alaska Center for Energy and Power
ACSR	aluminum conductor steel-reinforced cable
ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
ADNR	Alaska Department of Natural Resources
AEA	Alaska Energy Authority
AGC	Alaska Geospatial Council
Agnew::Beck..	Agnew::Beck Consulting, Inc.
AHMG	<i>Alaska Habitat Management Guide</i>
AHRS	Alaska Heritage Resources Survey
Ahtna	Ahtna Environmental, Inc.
AMEC	Alaska Mapping Executive Committee
AMI	Alaska Mapping Initiative
ANILCA	Alaska National Interest Lands Conservation Act
AP&T	Alaska Power and Telephone
APE	Area of Potential Effect
ASGDC	Alaska State Geo-Spatial Data Clearinghouse
Atlas	Atlas to the Anadromous Waters Catalog
AWC	Anadromous Waters Catalog
AWH	<i>Alaska's Wildlife and Habitat</i>
BESS	Battery Energy Storage System
BFS	United States Department of the Treasury, Bureau of the Fiscal Service
BLM	United States Department of the Interior, Bureau of Land Management
BMP	Best Management Practice
CAD	computer-aided design
Chugach	Chugach Electric Association, Inc.
CFR	Code of Federal Regulations
CHAT	Crucial Habitat Assessment Tool
Commission ...	Denali Commission
CVEA	Copper Valley Electric Association
DCCED	Department of Commerce, Community, and Economic Development
DCRA	Division of Community and Regional Affairs
DEM	digital elevation model
DGGS	Division of Geological & Geophysical Surveys
DoD	United States Department of Defense
DOT&PF	Alaska Department of Transportation and Public Facilities
DSM	digital surface model
EA	Environmental Assessment
EPA	United States Environmental Protection Agency
EPS	Electric Power Systems, Inc.
ERO	Energy Reliability Organization

EROS Earth Resources Observation and Science
ESA Endangered Species Act
FAA.....Federal Aviation Administration
FONSI Finding of No Significant Impact
GINA.....Geographic Information Network of Alaska
GIS geographic information system
GNIS GeoNorth Information Systems, LLC
GVEA Golden Valley Electric Association
IBS Integrated Business Suite
IFSAR Interferometric Synthetic Aperture Radar
kcmil kilo-circular-mil
kV kiloVolt
kW.....kiloWatt
LAND INFO ..LAND INFO Worldwide Mapping, LLC
LiDAR.....Light Detection and Ranging
Maxar Maxar Technologies
MEA.....Matanuska Electric Association, Inc.
MOA memorandum of agreement
MSB Matanuska-Susitna Borough
MTP Master Title Plat
MW MegaWatt
n.d.....no date
NEPA National Environmental Policy Act
NHPA.....National Historic Preservation Act
NRC Nuclear Regulatory Commission
NRCS Natural Resources Conservation Service
NRHP National Register of Historic Places
NWI.....National Wetlands Inventory
NWP.....Nationwide Permit
OEG Obstruction Evaluation Group
OHGW overhead ground wire
Quantum.....Quantum Spatial, Inc.
ROW right-of-way
RRC.....Railbelt Reliability Council
RUS.....Rural Utilities Service
SDMS.....Spatial Data Management System
SHPO State Historic Preservation Office
SMR.....Small Module Reactor
SOI Secretary of the Interior
SPOT*Satellite Pour l’Observation de la Terre*
SVC.....static Volt-Ampere reactive compensator
T&E.....threatened and endangered
TAPS.....Trans-Alaska Pipeline System

Trust Alaska Mental Health Trust Authority
UAF.....University of Alaska Fairbanks
UAV unmanned aerial vehicle
USACE United States Army Corps of Engineers
USCG.....United States Coast Guard
USDA.....United States Department of Agriculture
USFWS United States Fish and Wildlife Service
USGS United States Geological Survey
VAR Volt-Ampere reactive
WAFWA Western Association of Fish and Wildlife Agencies
WMS web map service
WOTUS waters of the United States

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