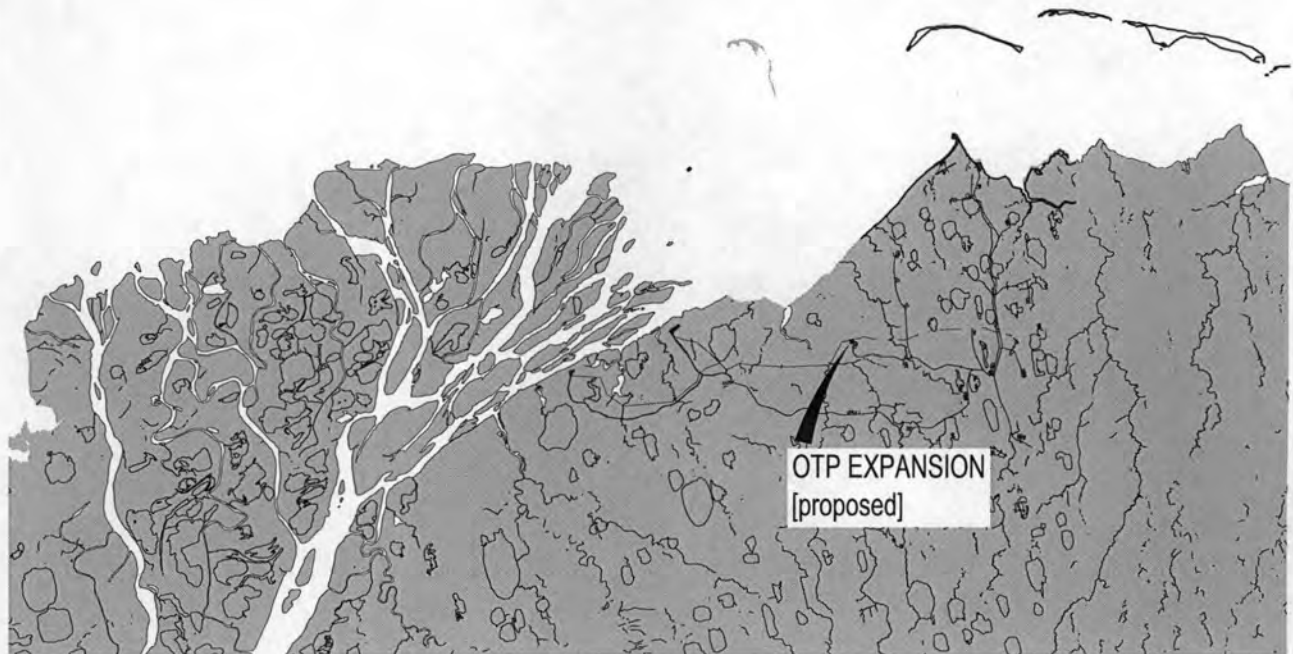
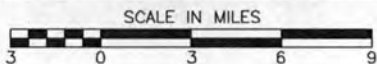




ALASKA VICINITY MAP



OTP EXPANSION VICINITY MAP



PURPOSE:
 CONSTRUCT GRAVEL PAD AND
 FLOWLINE FOR OILFIELD
 DEVELOPMENT

DATUM: BPMSL, NAD27 ASP ZONE 4

ADJACENT PROPERTY OWNERS:
 1. STATE OF ALASKA DNR
 2. US DEPT OF INTERIOR BLM

APPLICANT: PIONEER
 NATURAL RESOURCES
 ALASKA

LOCATION: T12N, R7E & R8E
 UMIAT MERIDIAN

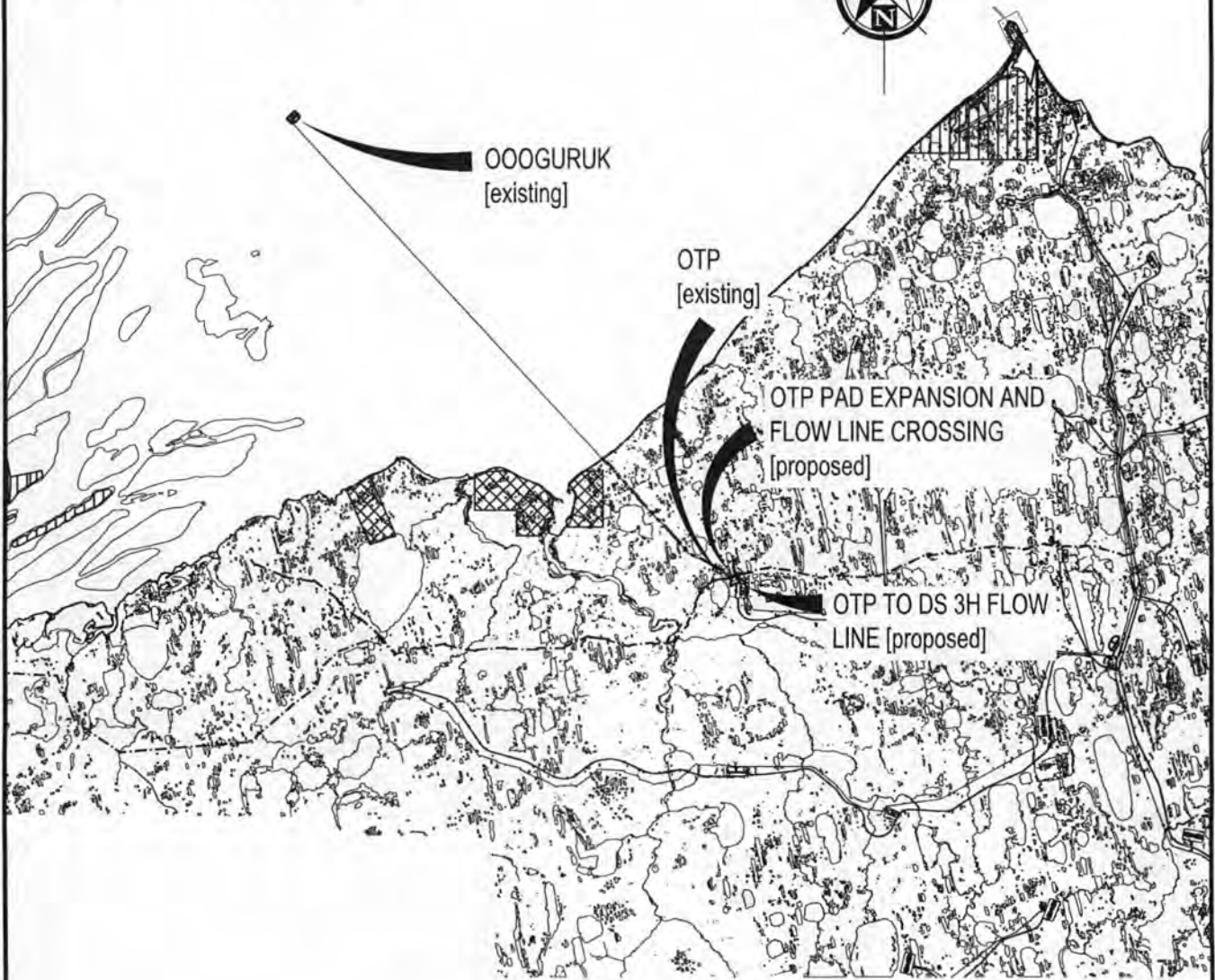
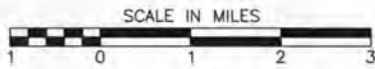
ADDRESS: 700 G STREET
 SUITE 600
 ANCHORAGE, ALASKA 99501

PROPOSED: PAD & FLOWLINE
 CONSTRUCTION

IN & NEAR: KUPARUK RIVER UNIT

COUNTY: ANS BOROUGH
STATE: ALASKA

SHEET 1 of 27
 9-24-2013



OTP FACILITIES OVERVIEW

OTP PAD	
PAD FOOTPRINT	1.5 ACRES
PAD FILL QUANTITY	14,500 CY



NATIVE ALOTMENT
US SURVEY

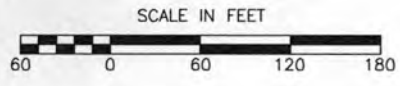
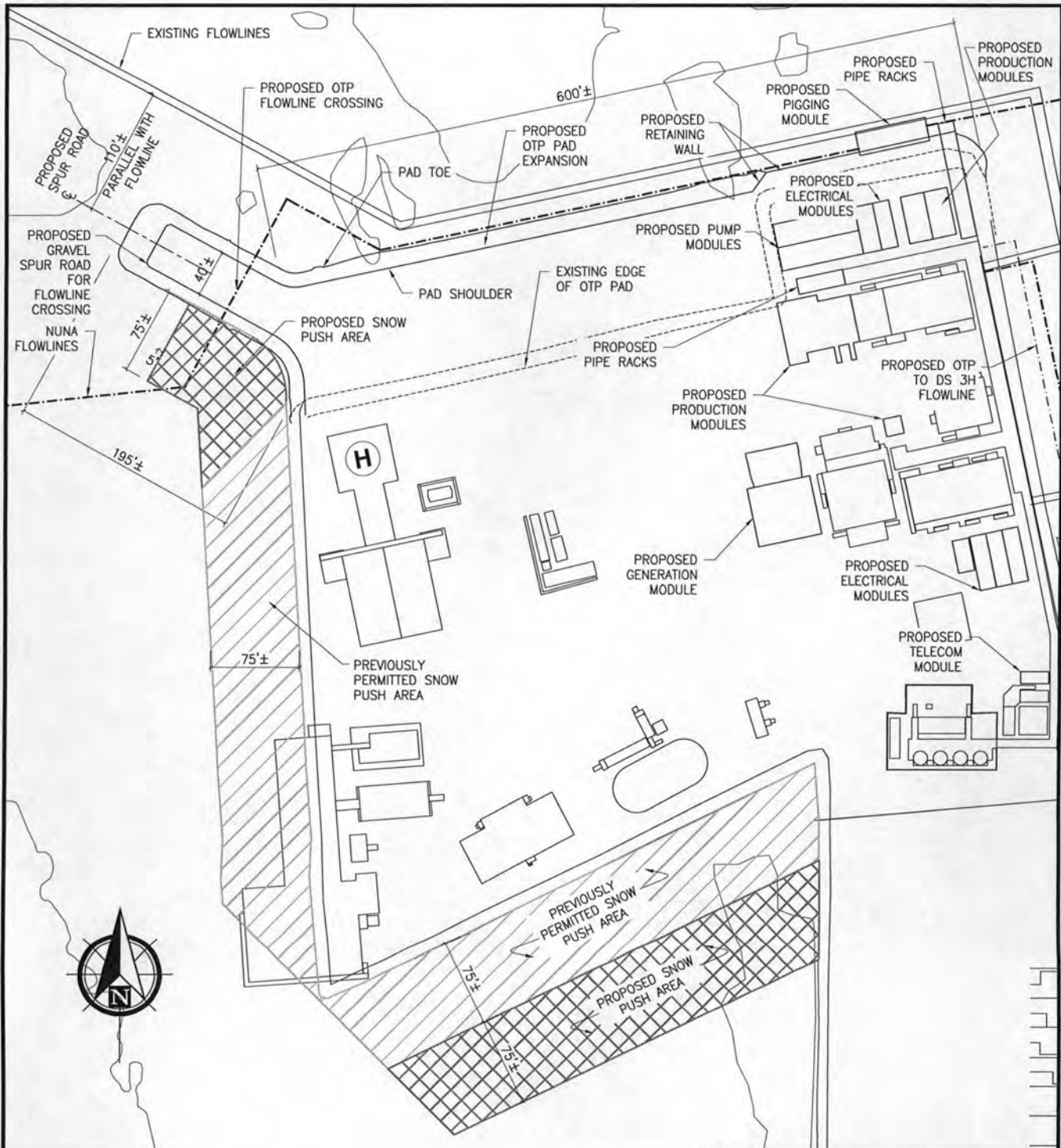
REFERENCE:

APPLICANT: PIONEER
PROPOSED: PAD & FLOWLINE CONSTRUCTION

AT: ALASKA

SHEET **2** of **27** 9-24-2013

THIS MAP PROJECTION IS BASED UPON ALASKA STATE PLANE, NAD 27. THIS MAP IS BASED ON DATA PROVIDED BY THE U.S. GEOLOGICAL SURVEY, THE ALASKA DEPARTMENT OF NATURAL RESOURCES, AND PIONEER NATURAL RESOURCES, ALASKA.



PROPOSED OTP PAD EXPANSION LAYOUT

REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE CONSTRUCTION
 AT: ALASKA
 SHEET **3** of **27** 9-24-2013



PROPOSED PIGGING
MODULE

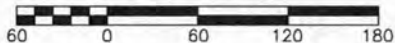
PROPOSED
MODULES, TYP

EXISTING
OTP PAD

PROPOSED OTP TO
DS 3H FLOWLINE

EXISTING
DS 3H PAD

SCALE IN FEET



PROPOSED OTP TO DS 3H FLOWLINE

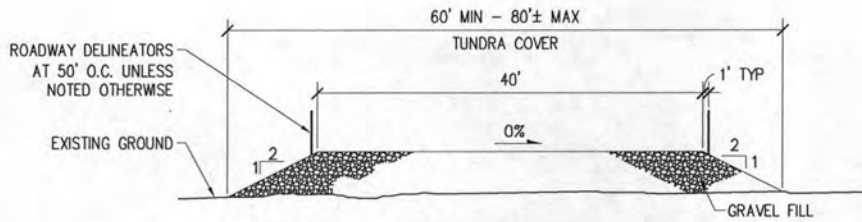
REFERENCE:

APPLICANT: PIONEER

PROPOSED: PAD & FLOWLINE
CONSTRUCTION

AT: ALASKA

SHEET **4** of **27** 9-24-2013

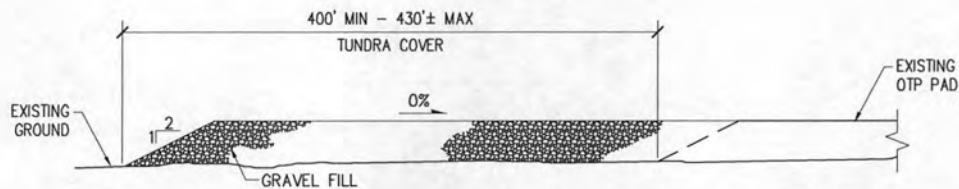


GRAVEL SPUR ROAD FLOWLINE CROSSING SECTION

NOT TO SCALE

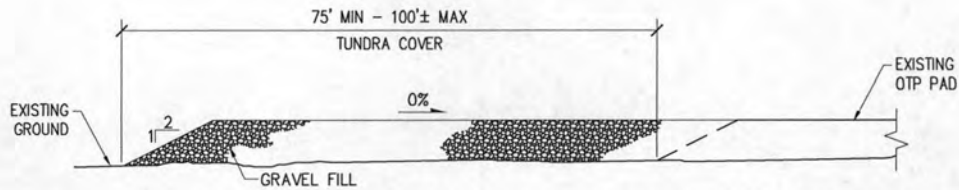
NOTE:

3:1 SLOPE AT TERMINATION OF SPUR ROAD



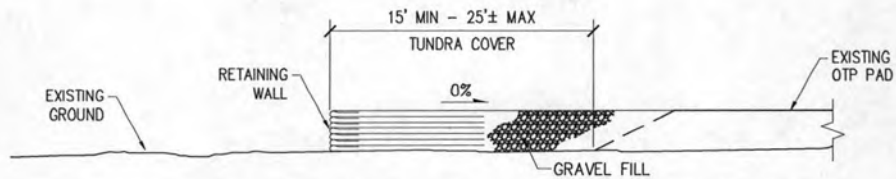
OTP PAD EXPANSION TYPICAL LONGITUDINAL SECTION

NOT TO SCALE



OTP PAD EXPANSION TYPICAL TRANSVERSE SECTION

NOT TO SCALE



OTP PAD EXPANSION TYPICAL SECTION @ NE CORNER

NOT TO SCALE

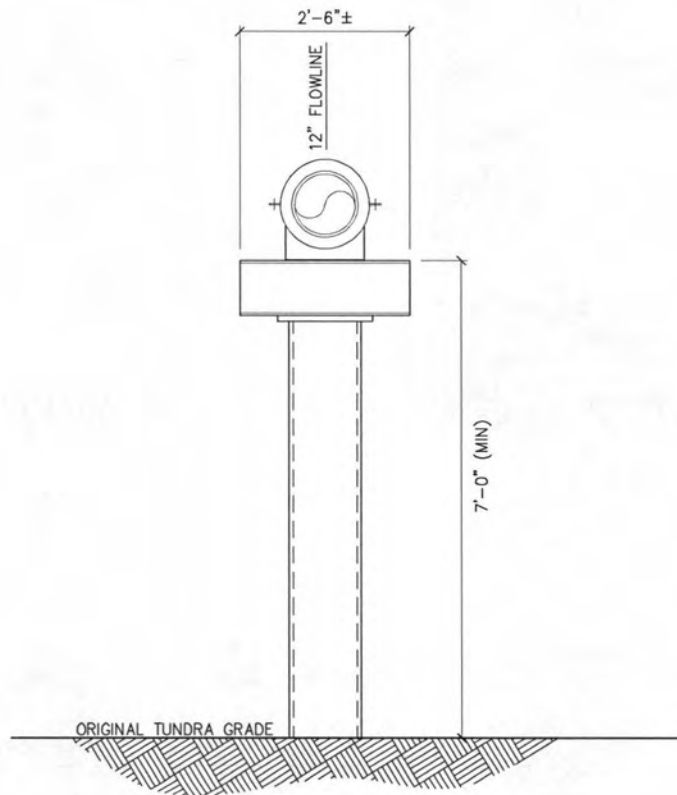
NOTE:
 MAX TOE TO TOE DIMENSIONS ARE ESTIMATED, ACTUAL DIMENSIONS MAY VARY BASED UPON SITE CONDITIONS.
 GRAVEL ROAD/PAD DEPTH - 5 FT MIN, MATCH EXISTING OTP ELEVATION.

REFERENCE:

APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE CONSTRUCTION

AT: ALASKA
 SHEET 5 of 27 9-24-2013

PROPOSED OTP PAD EXPANSION AND FLOW LINE CROSSING SECTIONS



OTP TO DS 3H FLOWLINE

PROPOSED FLOWLINE SECTION

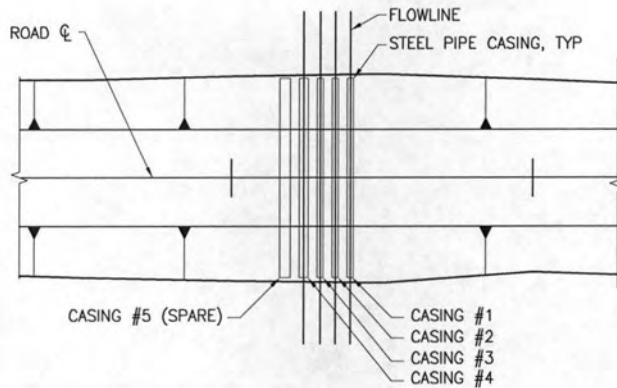
REFERENCE:

APPLICANT: PIONEER

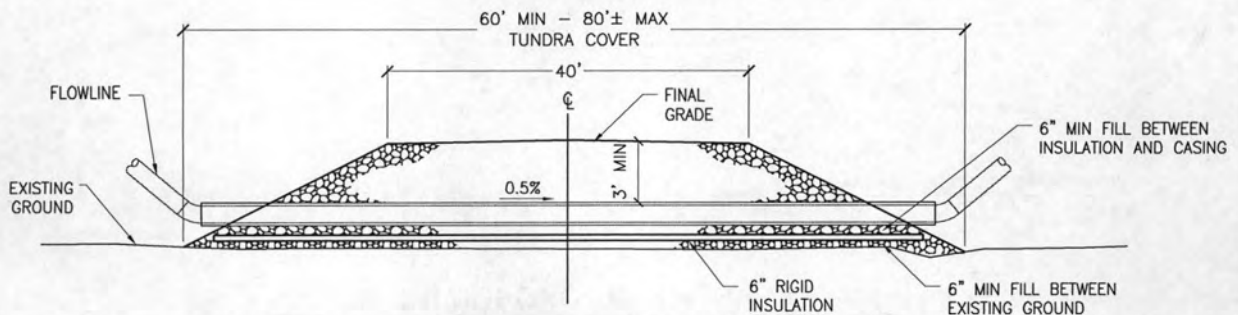
PROPOSED: PAD & FLOWLINE
CONSTRUCTION

AT: ALASKA

SHEET **6** of **27** 9-24-2013



OTP FLOWLINE CROSSING PLAN
NOT TO SCALE



OTP FLOWLINE CROSSING TYPICAL SECTION
NOT TO SCALE

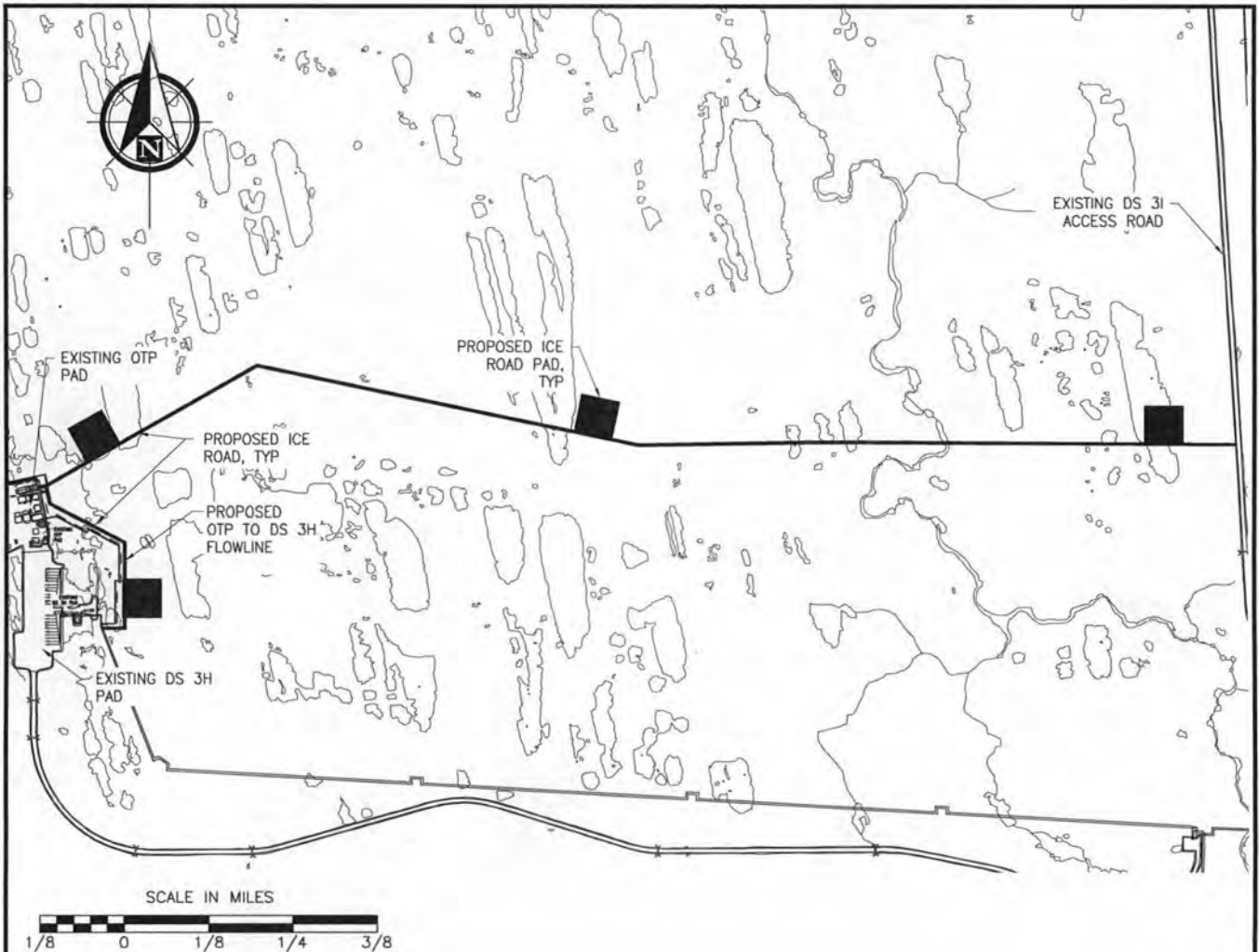
NOTE:
MAX TOE TO TOE DIMENSIONS ARE ESTIMATED, ACTUAL DIMENSIONS MAY VARY BASED UPON SITE CONDITIONS.
GRAVEL ROAD/PAD DEPTH - 5 FT MIN.

REFERENCE:

APPLICANT: PIONEER
PROPOSED: PAD & FLOWLINE CONSTRUCTION





AT: ALASKA

SHEET **7** of **27** 9-24-2013



OTP EXPANSION PROPOSED ICE ROADS

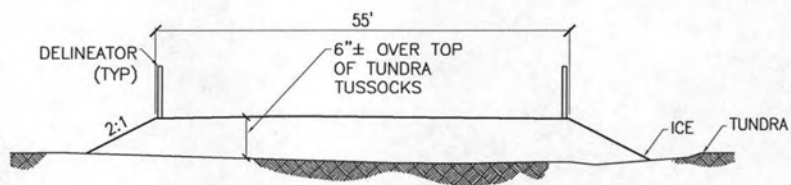
LEGEND

-  ICE ROAD
-  FLOWLINE (PROPOSED)
-  GRAVEL ROAD (EXISTING)
-  ICE PAD

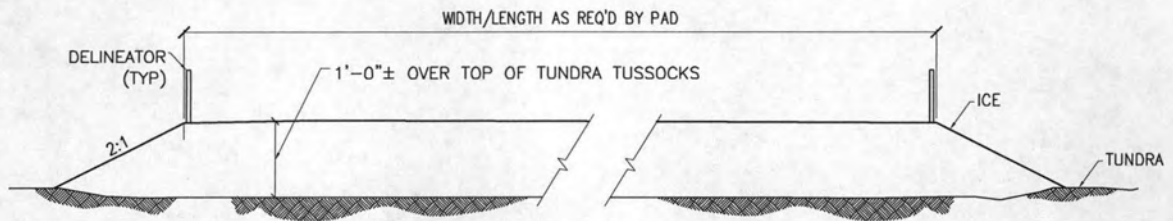
REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE
 CONSTRUCTION

AT: ALASKA
 SHEET **8** of **27** 9-24-2013

THIS MAP PROJECTION IS BASE UPON ALASKA STATE PLANE, NAD 27. THIS MAP IS BASED ON DATA PROVIDED BY THE U.S. GEOLOGICAL SURVEY, THE ALASKA DEPARTMENT OF NATURAL RESOURCES, AND PIONEER NATURAL RESOURCES, ALASKA.



TYPICAL FLOWLINE ICE ROAD



TYPICAL ICE PAD

TYPICAL ICE SECTIONS

REFERENCE:

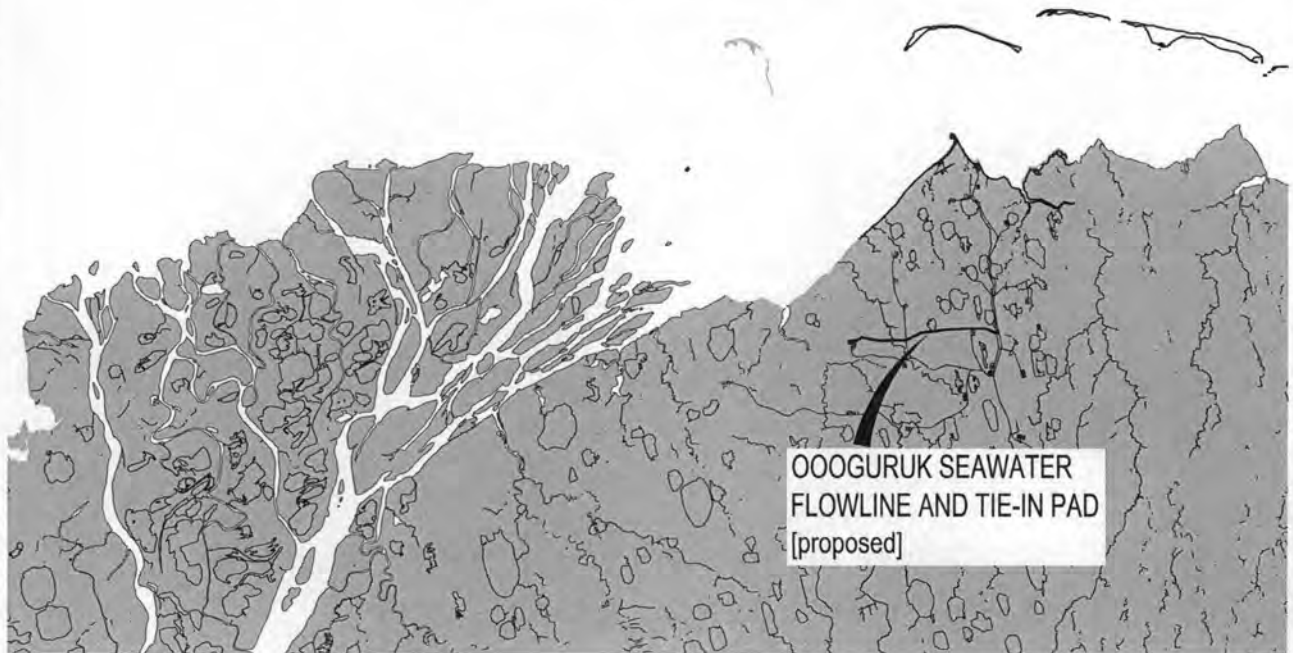
APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE
 CONSTRUCTION

AT: ALASKA

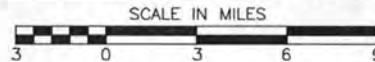
SHEET **9** of **27** 9-24-2013



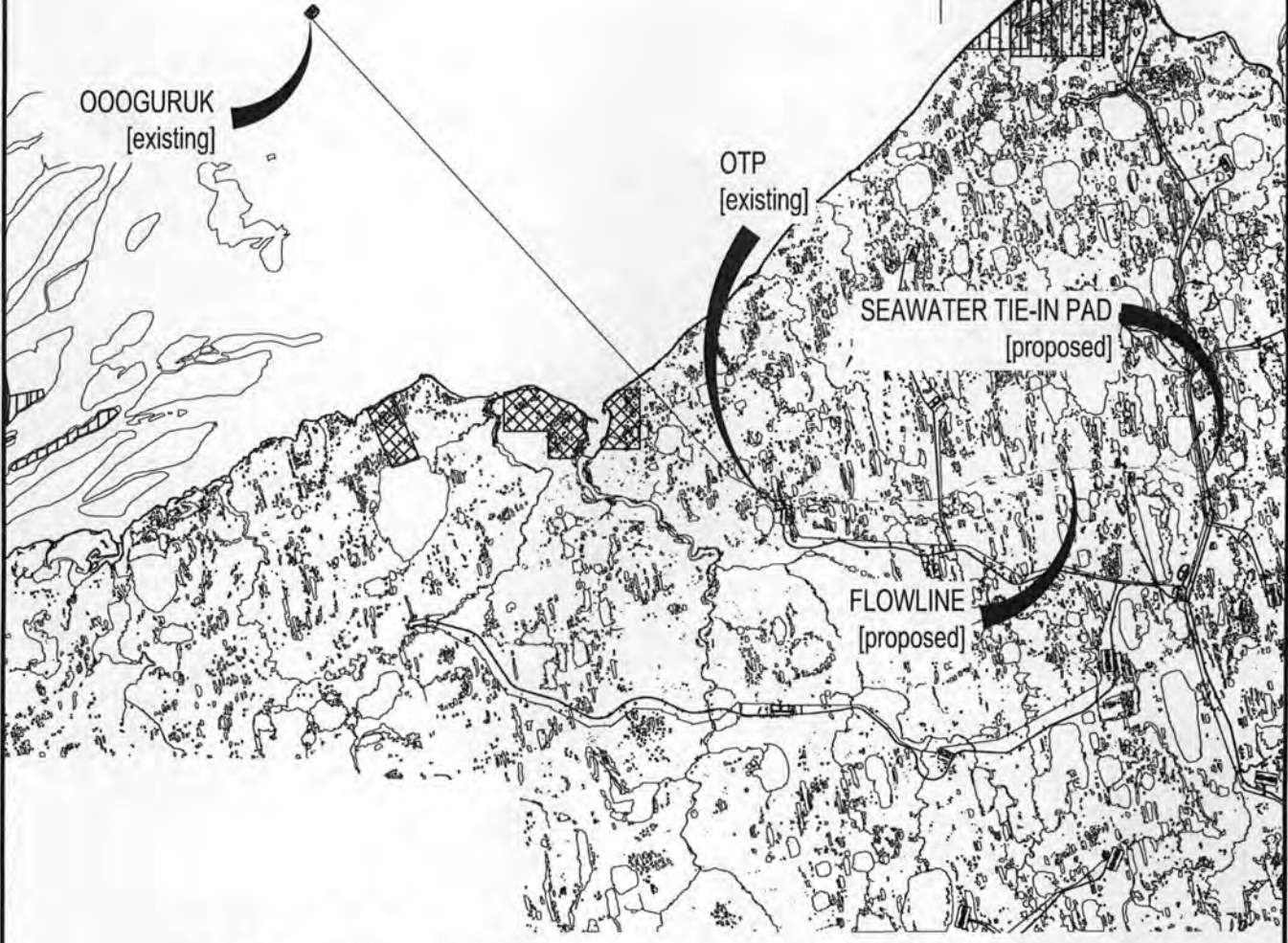
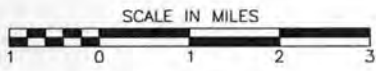
ALASKA VICINITY MAP



OOOGURUK SEAWATER FLOWLINE VICINITY MAP



<p>PURPOSE: CONSTRUCT GRAVEL PAD AND FLOWLINE FOR OILFIELD DEVELOPMENT</p> <p>DATUM: BPMSL, NAD27 ASP ZONE 4</p> <p>ADJACENT PROPERTY OWNERS: 1. STATE OF ALASKA DNR 2. US DEPT OF INTERIOR BLM</p>	<p>APPLICANT: PIONEER NATURAL RESOURCES ALASKA</p> <p>LOCATION: T12N, R7E & R8E UMIAT MERIDIAN</p> <p>ADDRESS: 700 G STREET SUITE 600 ANCHORAGE, ALASKA 99501</p>	<p>PROPOSED: PAD & FLOWLINE CONSTRUCTION</p> <p>IN & NEAR: KUPARUK RIVER UNIT</p> <p>COUNTY: ANS BOROUGH STATE: ALASKA</p> <p>SHEET 10 of 27 9-24-2013</p>
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OOOGURUK SEAWATER FLOWLINE FACILITIES OVERVIEW

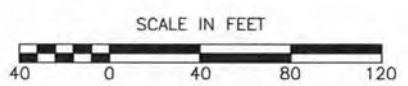
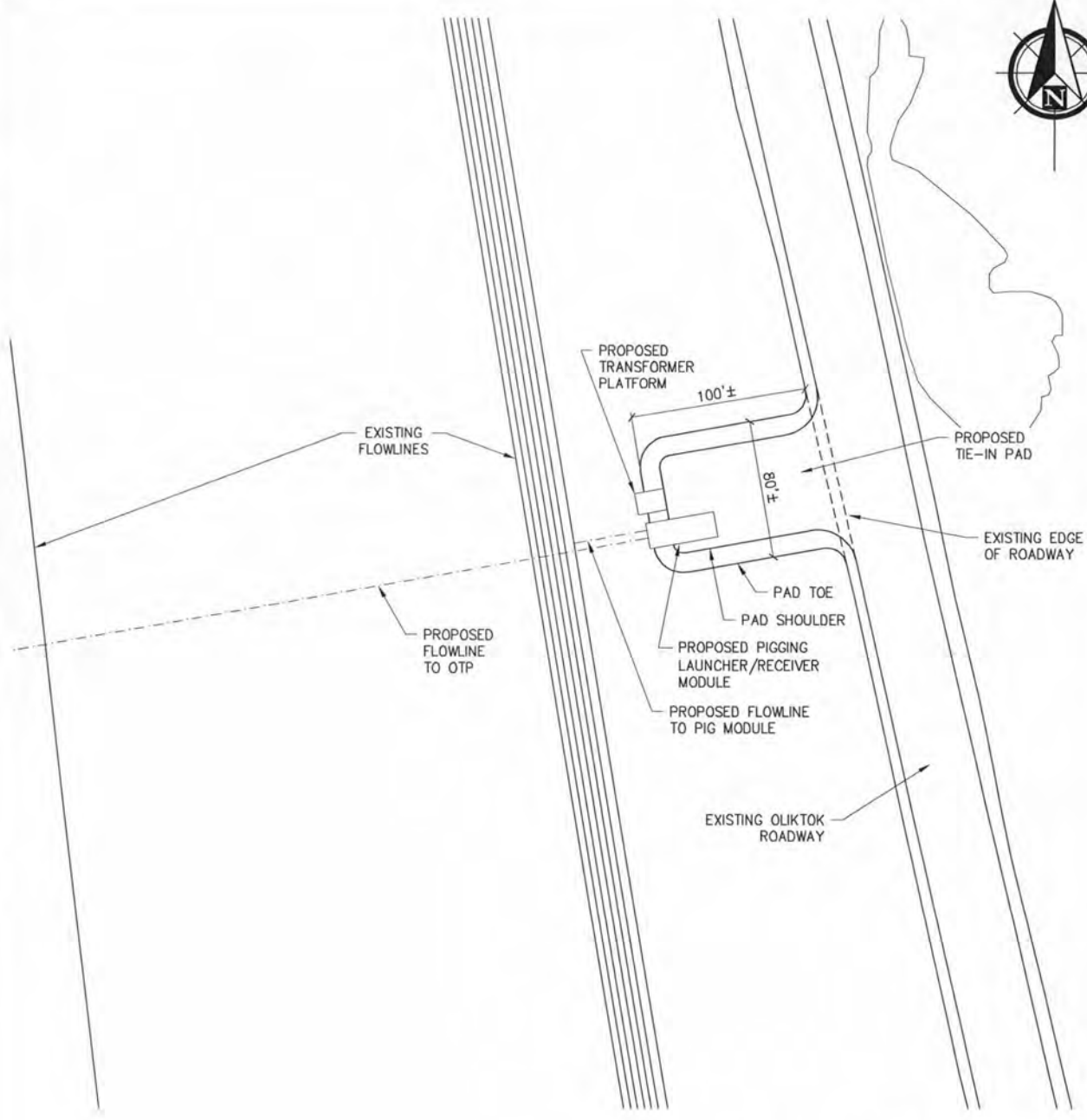
TIE-IN PAD	
PAD FOOTPRINT	0.18 ACRES
PAD FILL QUANTITY	1,200 CY

-  NATIVE ALOTMENT
-  US SURVEY

REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE CONSTRUCTION

THIS MAP PROJECTION IS BASED UPON ALASKA STATE PLANE, NAD 27. THIS MAP IS BASED ON DATA PROVIDED BY THE U.S. GEOLOGICAL SURVEY, THE ALASKA DEPARTMENT OF NATURAL RESOURCES, AND PIONEER NATURAL RESOURCES, ALASKA.

AT: ALASKA
 SHEET **11** of **27** 9-24-2013

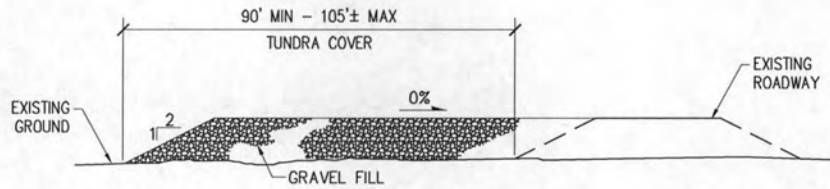


NOTE:
MINIMUM GRAVEL DEPTH
5.0' WITH 2:1 FILL SLOPES

REFERENCE:
APPLICANT: PIONEER
PROPOSED: PAD & FLOWLINE
CONSTRUCTION

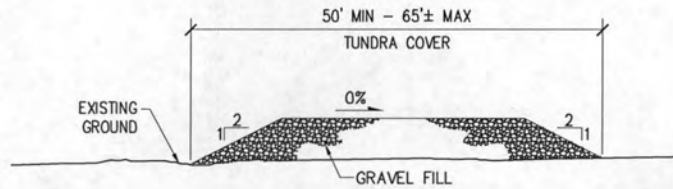
AT: ALASKA
SHEET **12** of **27** 9-24-2013

PROPOSED SEAWATER TIE-IN PAD LAYOUT



SEAWATER TIE-IN PAD TYPICAL LONGITUDINAL SECTION

NOT TO SCALE



SEAWATER TIE-IN PAD TYPICAL TRANSVERSE SECTION

NOT TO SCALE

NOTE:
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED, ACTUAL DIMENSIONS MAY
VARY BASED UPON SITE CONDITIONS.

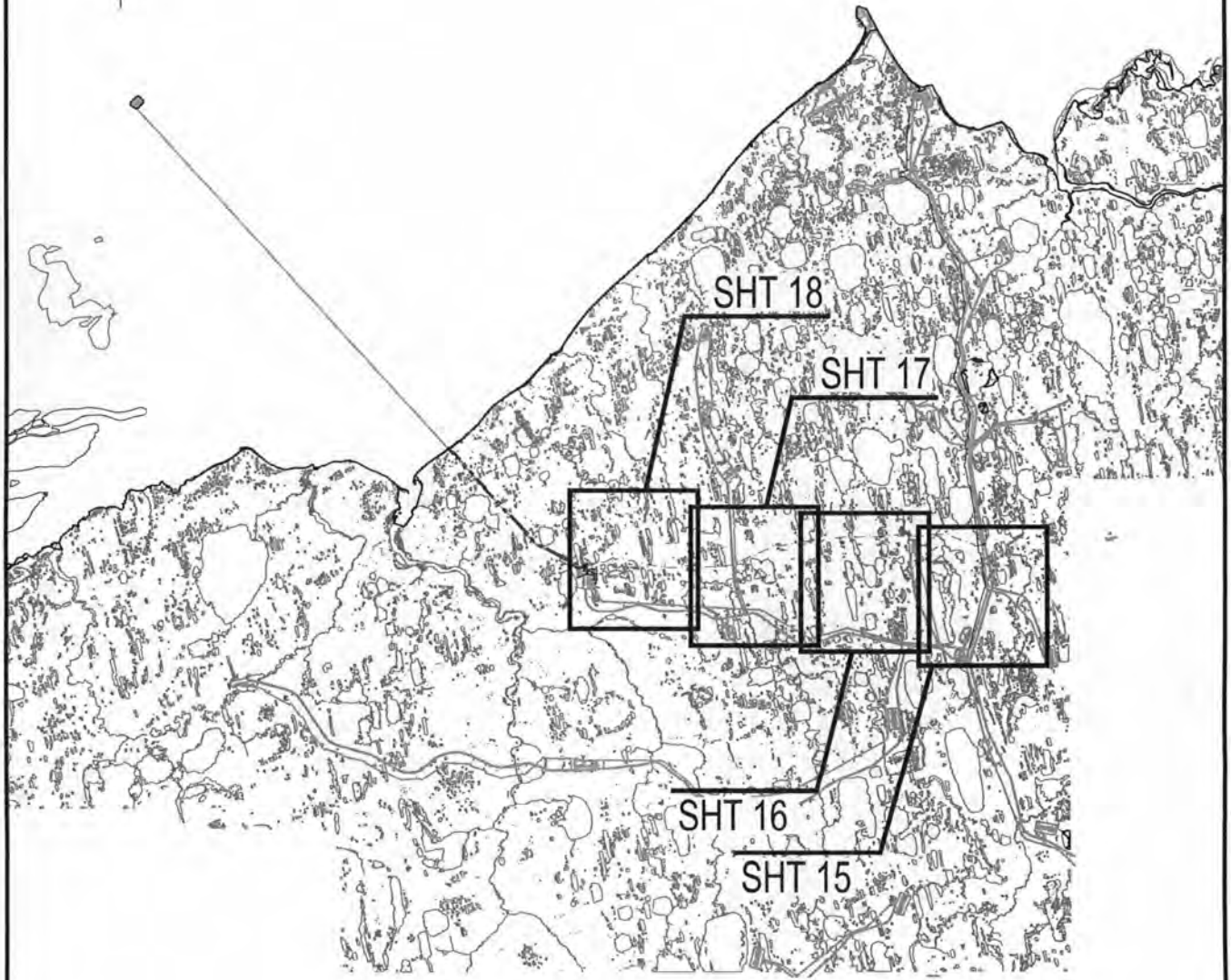
REFERENCE:

APPLICANT: PIONEER
PROPOSED: PAD & FLOWLINE
CONSTRUCTION

AT: ALASKA

SHEET **13** of **27** 9-24-2013

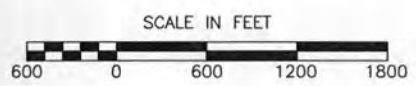
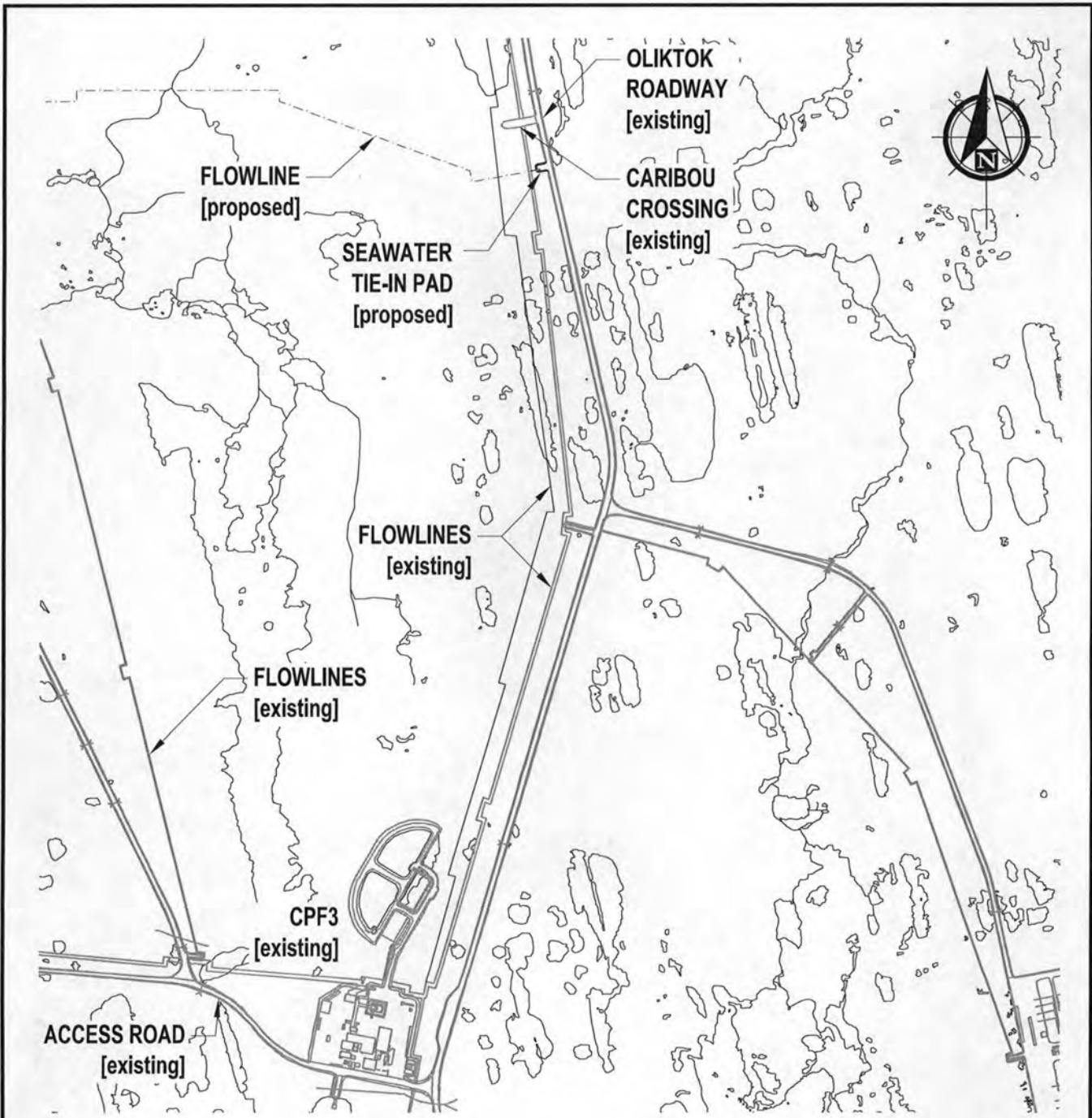
PROPOSED SEAWATER TIE-IN PAD SECTIONS



PROPOSED FLOWLINE ROUTE KEY MAP

REFERENCE:
APPLICANT: PIONEER
PROPOSED: PAD & FLOWLINE
CONSTRUCTION

AT: ALASKA
SHEET **14** of **27** 9-24-2013



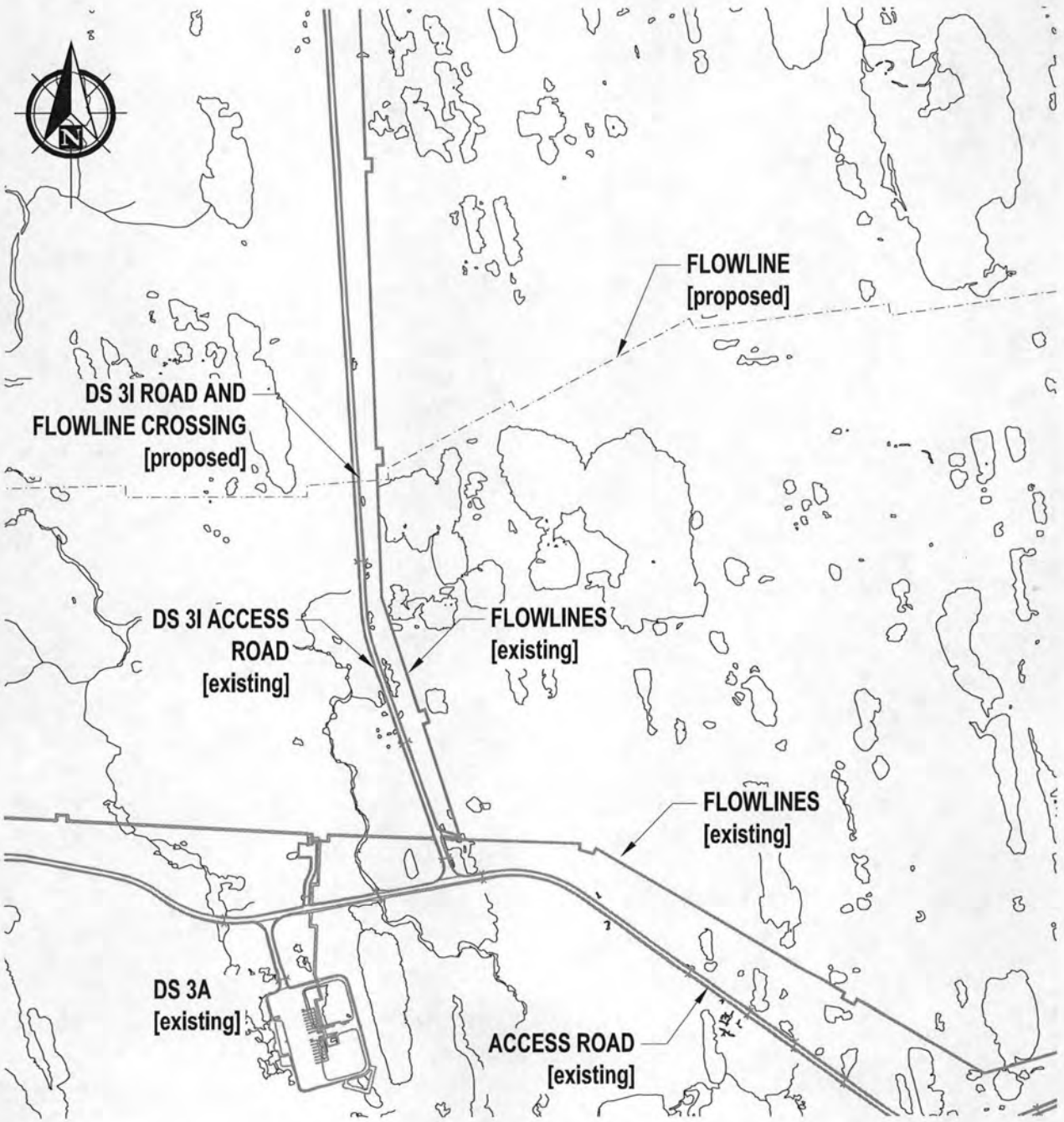
PROPOSED FLOWLINES 1 OF 4

REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE CONSTRUCTION
 AT: ALASKA
 SHEET **15** of **27** 9-24-2013



PROPOSED ROAD AND FLOWLINES 2 OF 4

REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE CONSTRUCTION
 AT: ALASKA
 SHEET **16** of **27** 9-24-2013



SCALE IN FEET



PROPOSED FLOWLINES 3 OF 4

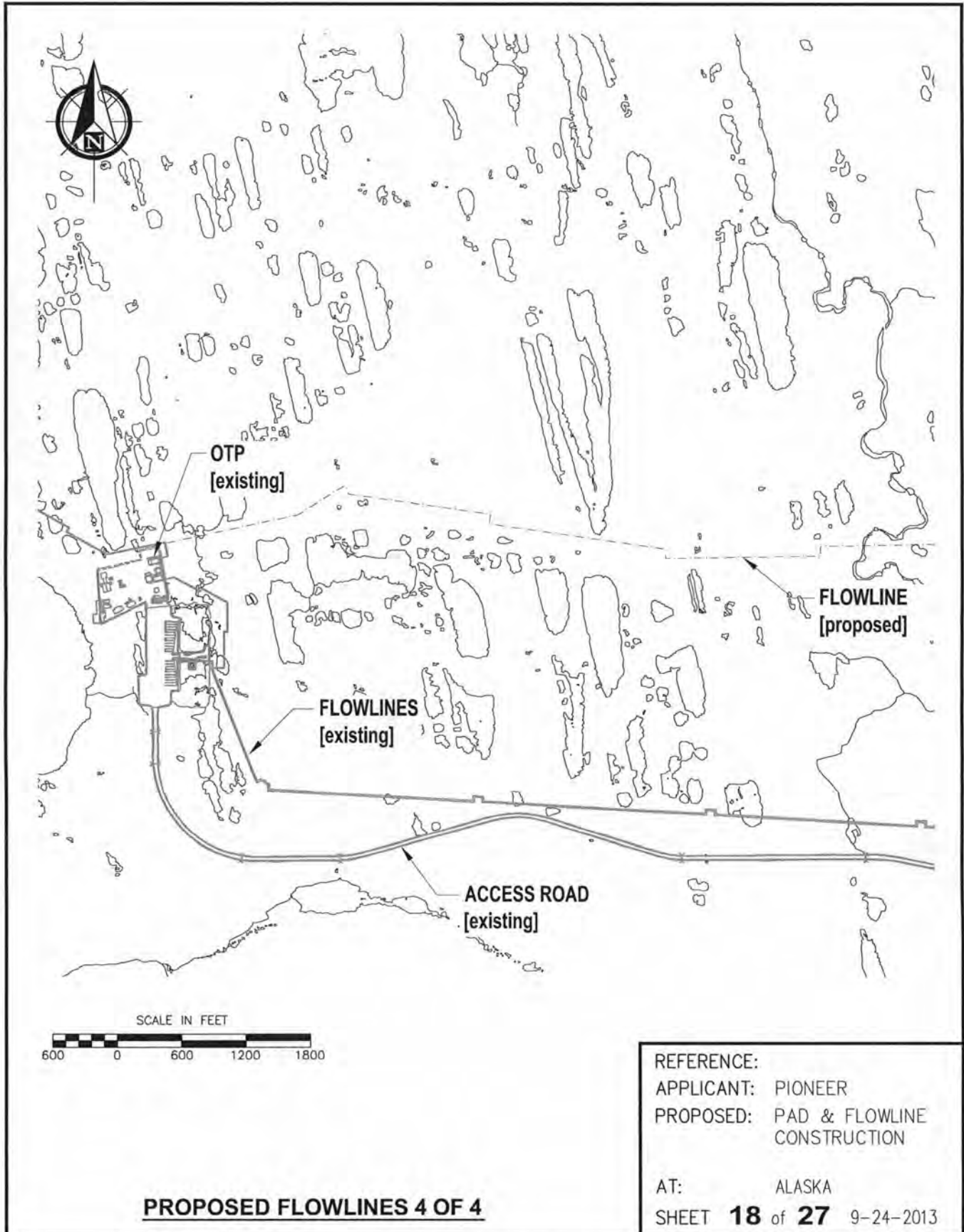
REFERENCE:

APPLICANT: PIONEER

PROPOSED: PAD & FLOWLINE CONSTRUCTION

AT: ALASKA

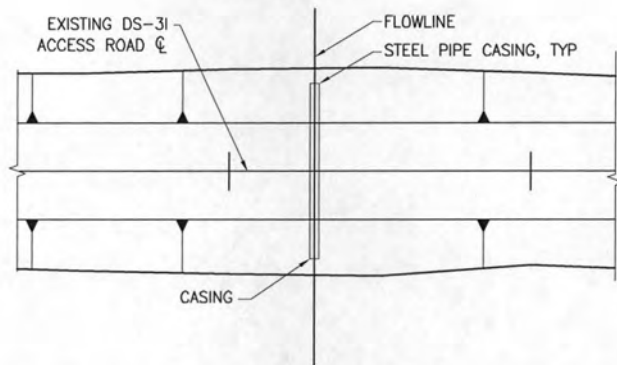
SHEET **17** of **27** 9-24-2013



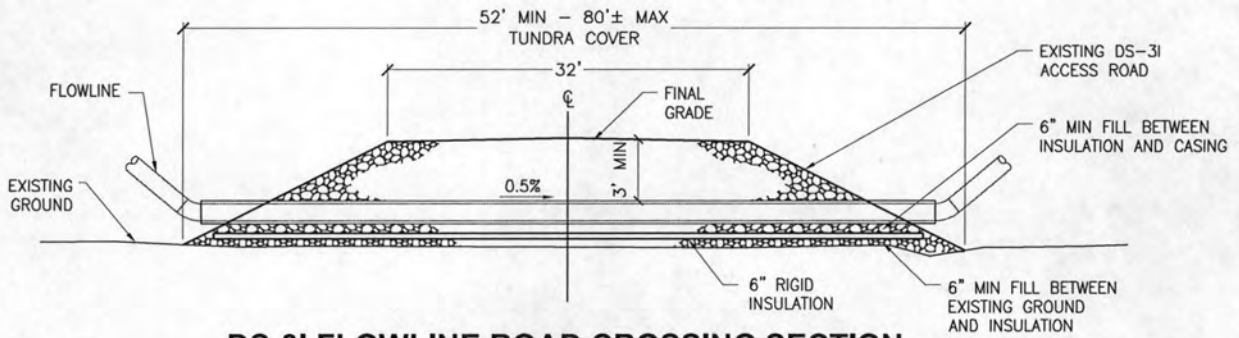
REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE
 CONSTRUCTION

 AT: ALASKA
 SHEET **18** of **27** 9-24-2013

PROPOSED FLOWLINES 4 OF 4



DS-31 FLOWLINE ROAD CROSSING PLAN
NOT TO SCALE



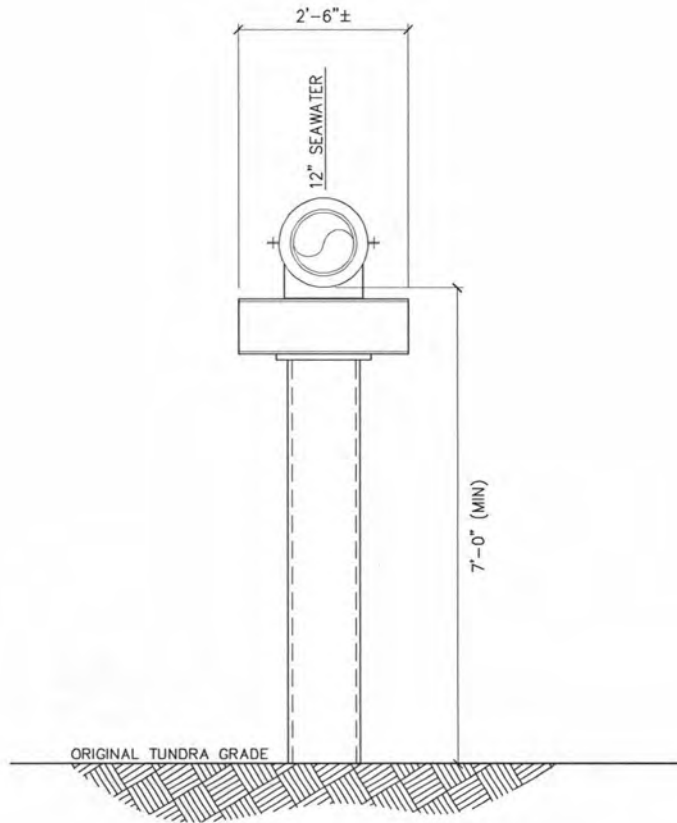
DS-31 FLOWLINE ROAD CROSSING SECTION
NOT TO SCALE

NOTE:
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED, ACTUAL DIMENSIONS MAY
VARY BASED UPON SITE CONDITIONS.
GRAVEL ROAD/PAD DEPTH - 5 FT
MIN, 2:1 SLOPES.

REFERENCE:
APPLICANT: PIONEER
PROPOSED: PAD & FLOWLINE
CONSTRUCTION

AT: ALASKA
SHEET **19** of **27** 9-24-2013

PROPOSED FLOWLINE CROSSING



**SEAWATER FLOWLINE FROM
SEAWATER TIE-IN PAD TO OTP**

PROPOSED FLOWLINE SECTION

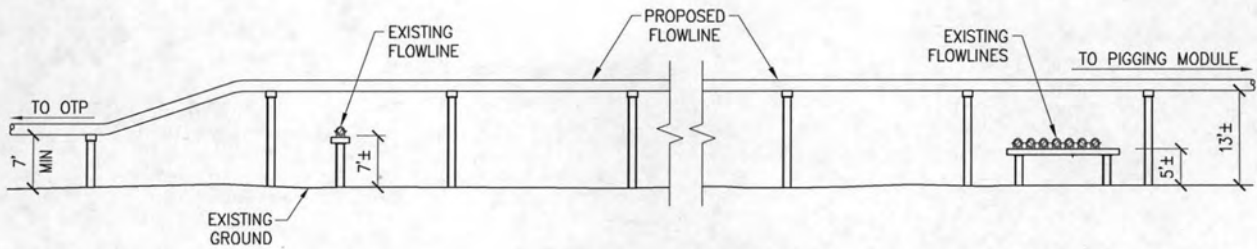
REFERENCE:

APPLICANT: PIONEER

PROPOSED: PAD & FLOWLINE
CONSTRUCTION

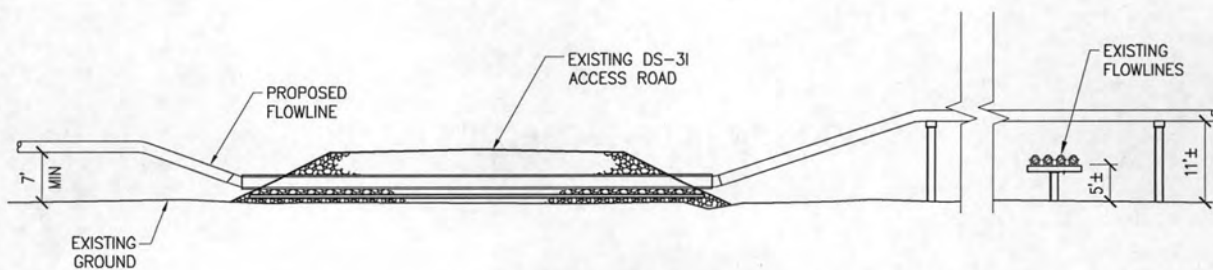
AT: ALASKA

SHEET **20** of **27** 9-24-2013



FLOWLINE CROSSING AT SEAWATER TIE IN PAD

NOT TO SCALE



FLOWLINE CROSSING AT DS-31

NOT TO SCALE

PROPOSED FLOWLINE CROSSINGS

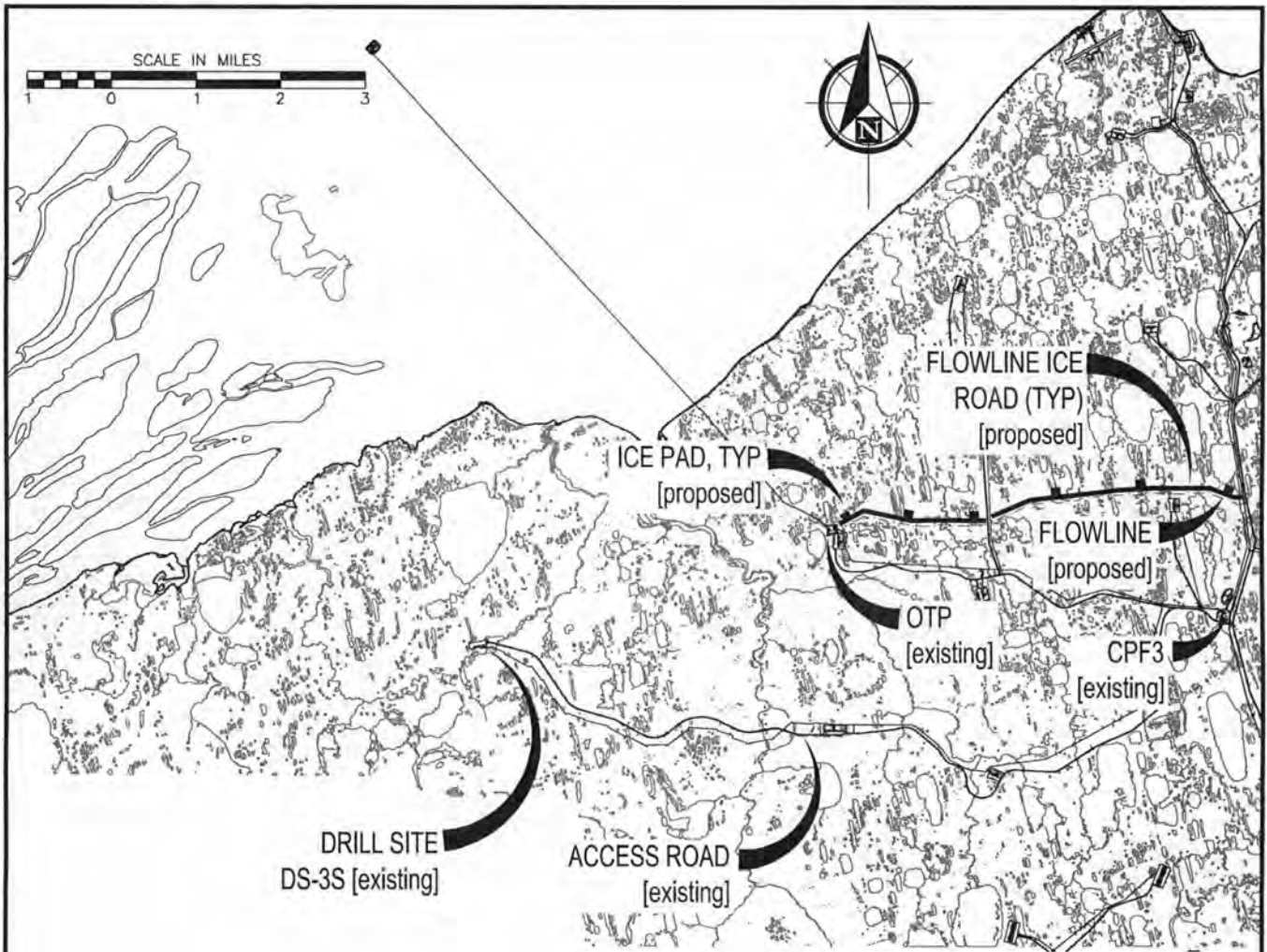
REFERENCE:

APPLICANT: PIONEER

PROPOSED: PAD & FLOWLINE
CONSTRUCTION





AT: ALASKA

SHEET **21** of **27** 9-24-2013



OOGURUK PROPOSED ICE ROADS

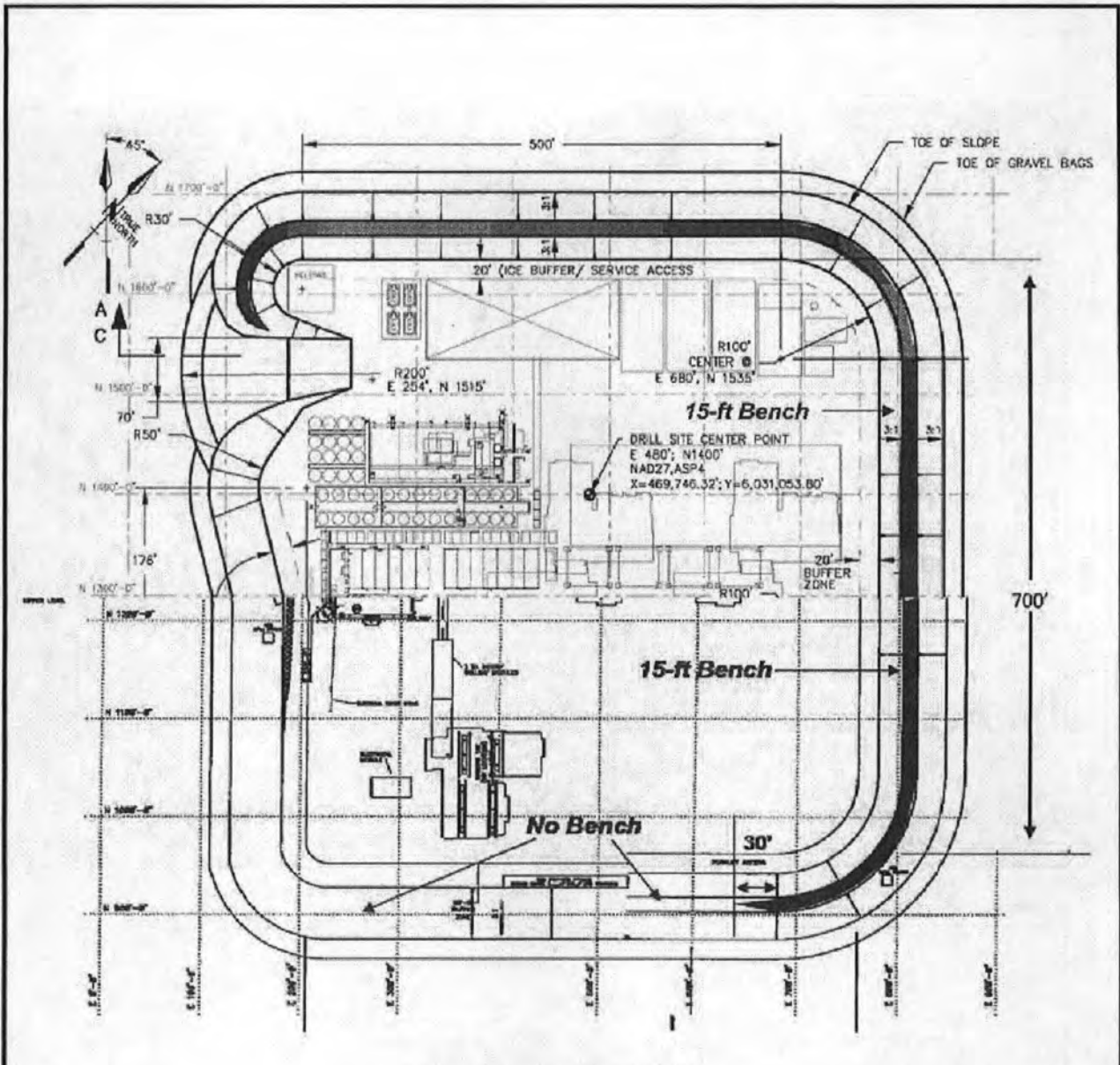
LEGEND

-  ICE ROAD
-  FLOWLINE (PROPOSED)
-  GRAVEL ROAD (EXISTING)
-  ICE PAD

REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE CONSTRUCTION

AT: ALASKA
 SHEET **22** of **27** 9-24-2013

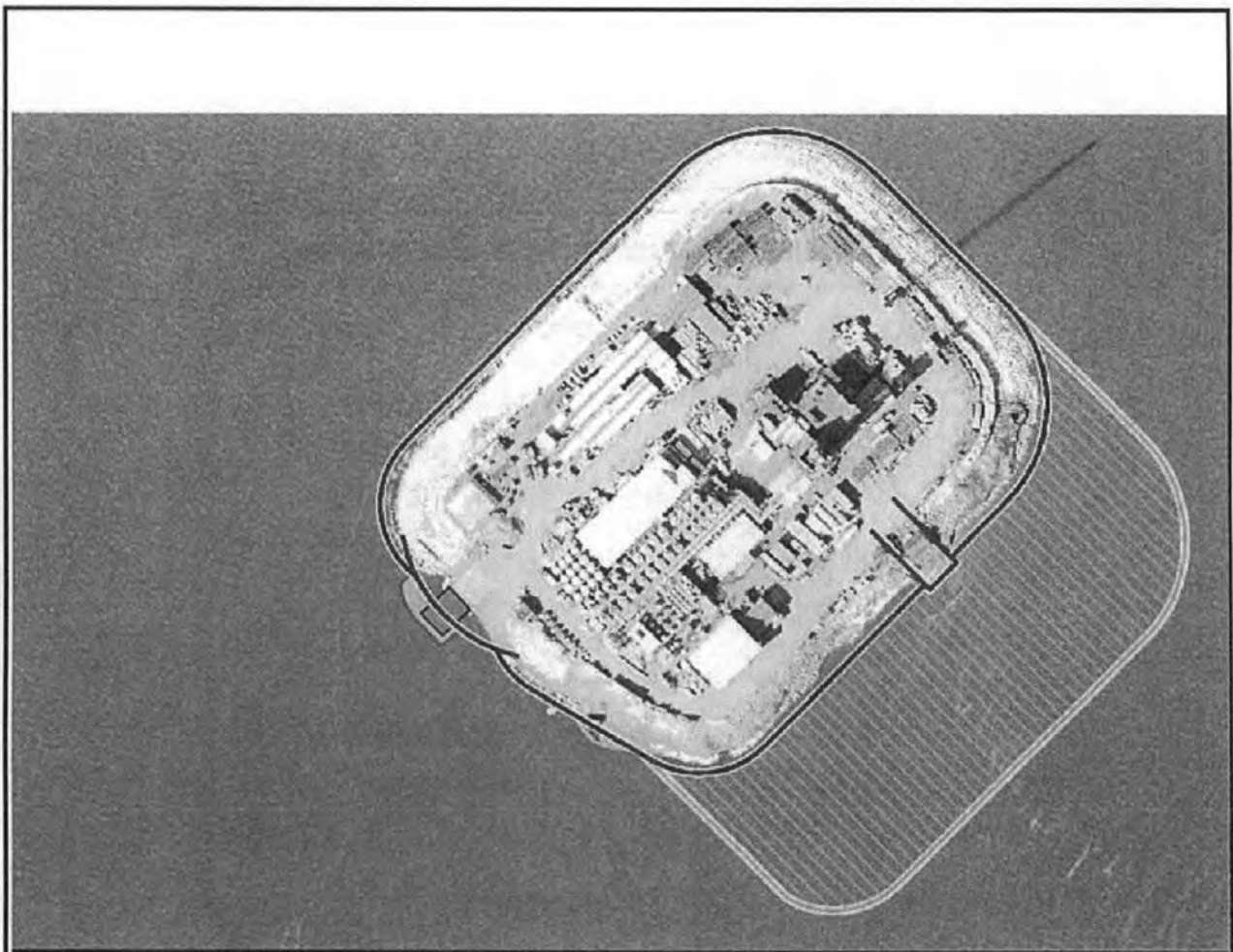
THIS MAP PROJECTION IS BASE UPON ALASKA STATE PLANE, NAD 27. THIS MAP IS BASED ON DATA PROVIDED BY THE U.S. GEOLOGICAL SURVEY, THE ALASKA DEPARTMENT OF NATURAL RESOURCES, AND PIONEER NATURAL RESOURCES, ALASKA.



**ODS Expansion, Plan View
Ooguruk Project Modifications**

REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE
 CONSTRUCTION

AT: ALASKA
 SHEET **23** of **27** 9-24-2013



Map Projection:
NAD83 Alaska State Plane Zone 4 (feet)

ABR file: ODS_Pad_Expansion_13-161.mxd; 07
Aug 2013

Legend

- | | |
|---|--|
| — Existing ODS(at mean sea level) | ■ Proposed Helicopter Sling Load Ramp |
| ■ Proposed ODS Expansion(at mean sea level) | ▨ Proposed Fill |
| | ■ Proposed Sling Load Seabed Footprint |

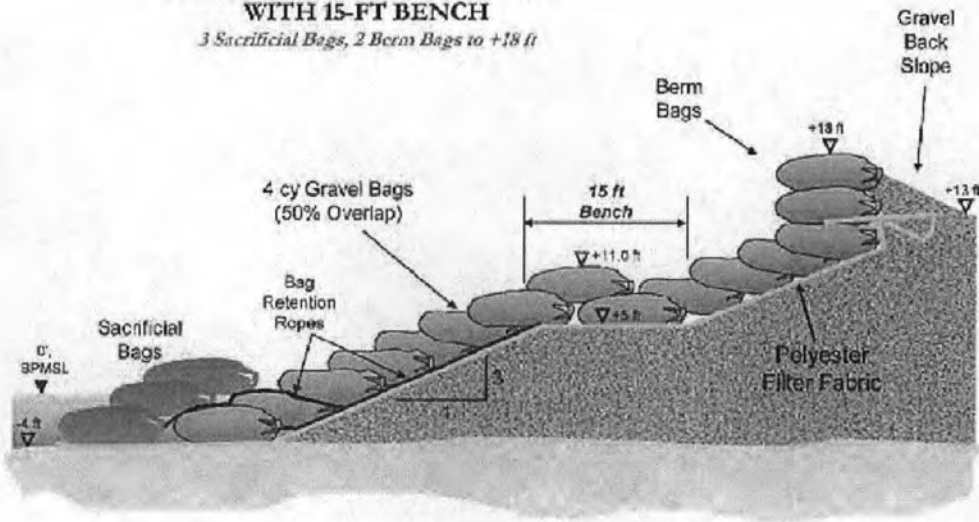
REFERENCE:

APPLICANT: PICNEER
PROPOSED: PAD & FLOWLINE
CONSTRUCTION

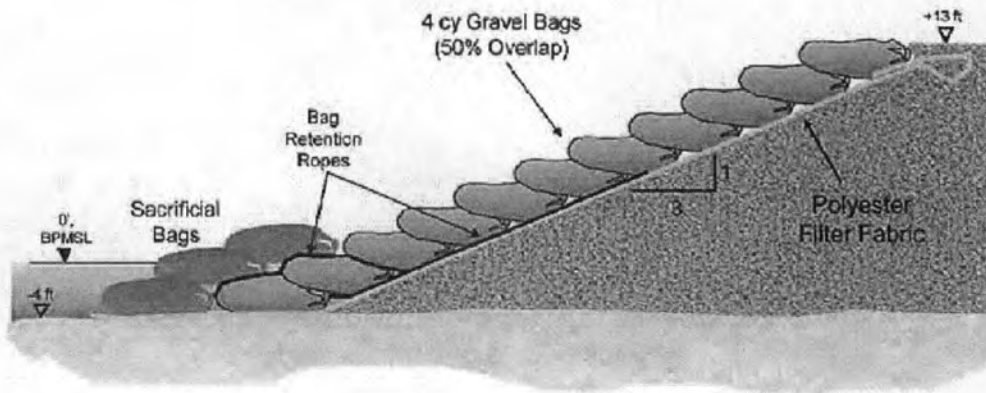
AT: ALASKA

SHEET **24** of **27** 9-24-2013

OOOGURUK OFFSHORE DRILLSITE
**ARMOR DESIGN PROFILE VIEW
 WITH 15-FT BENCH**
3 Sacrificial Bags, 2 Berm Bags to +18 ft



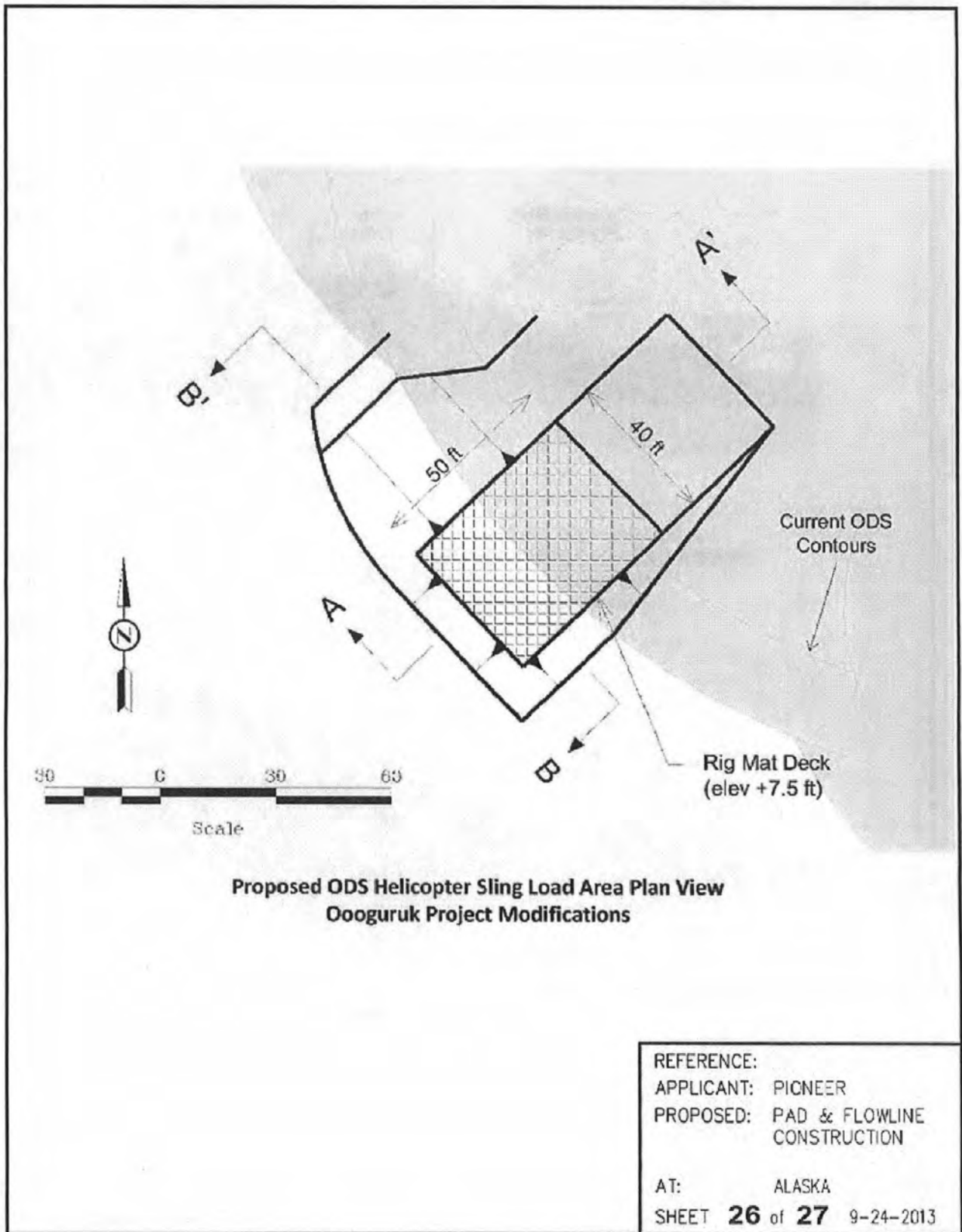
OOOGURUK OFFSHORE DRILLSITE
**ARMOR DESIGN PROFILE VIEW
 NO BENCH**
3 Sacrificial Bags

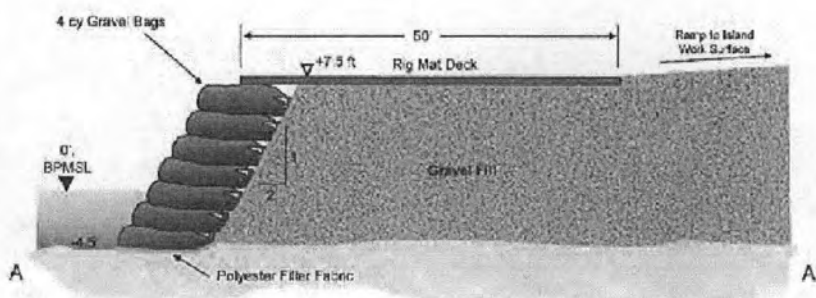


**Slope Armor Design Profile
 Oooguruk Project Modifications**

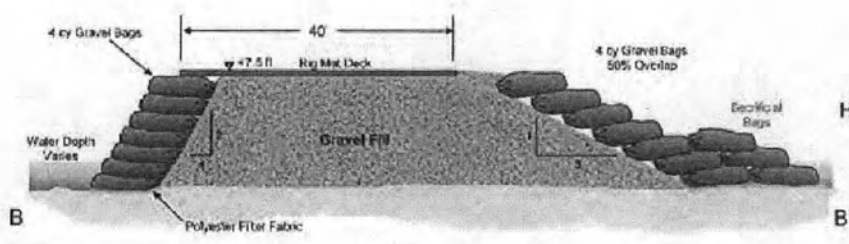
REFERENCE:
 APPLICANT: PIONEER
 PROPOSED: PAD & FLOWLINE
 CONSTRUCTION

AT: ALASKA
 SHEET **25** of **27** 9-24-2013





Oooguruk Offshore Drill Site
Helicopter Sling Load Area & Barge Ramp
Armor Design Profile View A-A'



Oooguruk Offshore Drill Site
Helicopter Sling Load Area & Barge Ramp
Armor Design Profile View B-B'

**ODS Helicopter Sling Load Area, Slope Armor Design Cross-Sections
Oooguruk Project Modifications**

REFERENCE:
 APPLICANT: PICNEER
 PROPOSED: PAD & FLOWLINE
 CONSTRUCTION
 AT: ALASKA
 SHEET **27** of **27** 9-24-2013