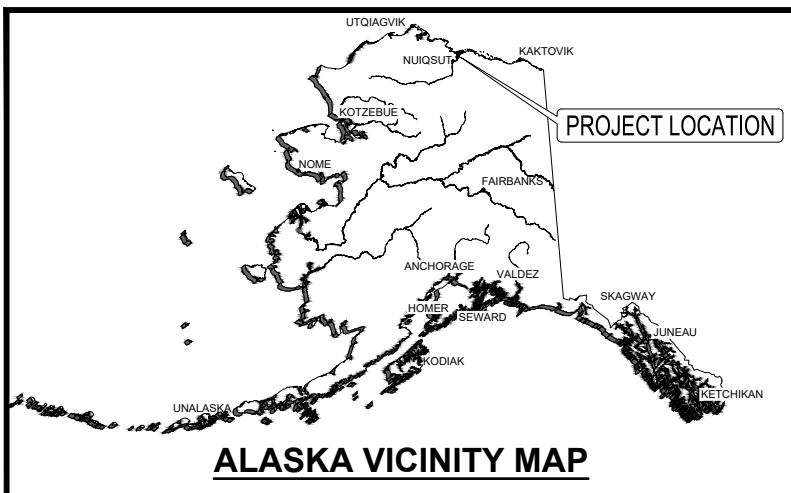
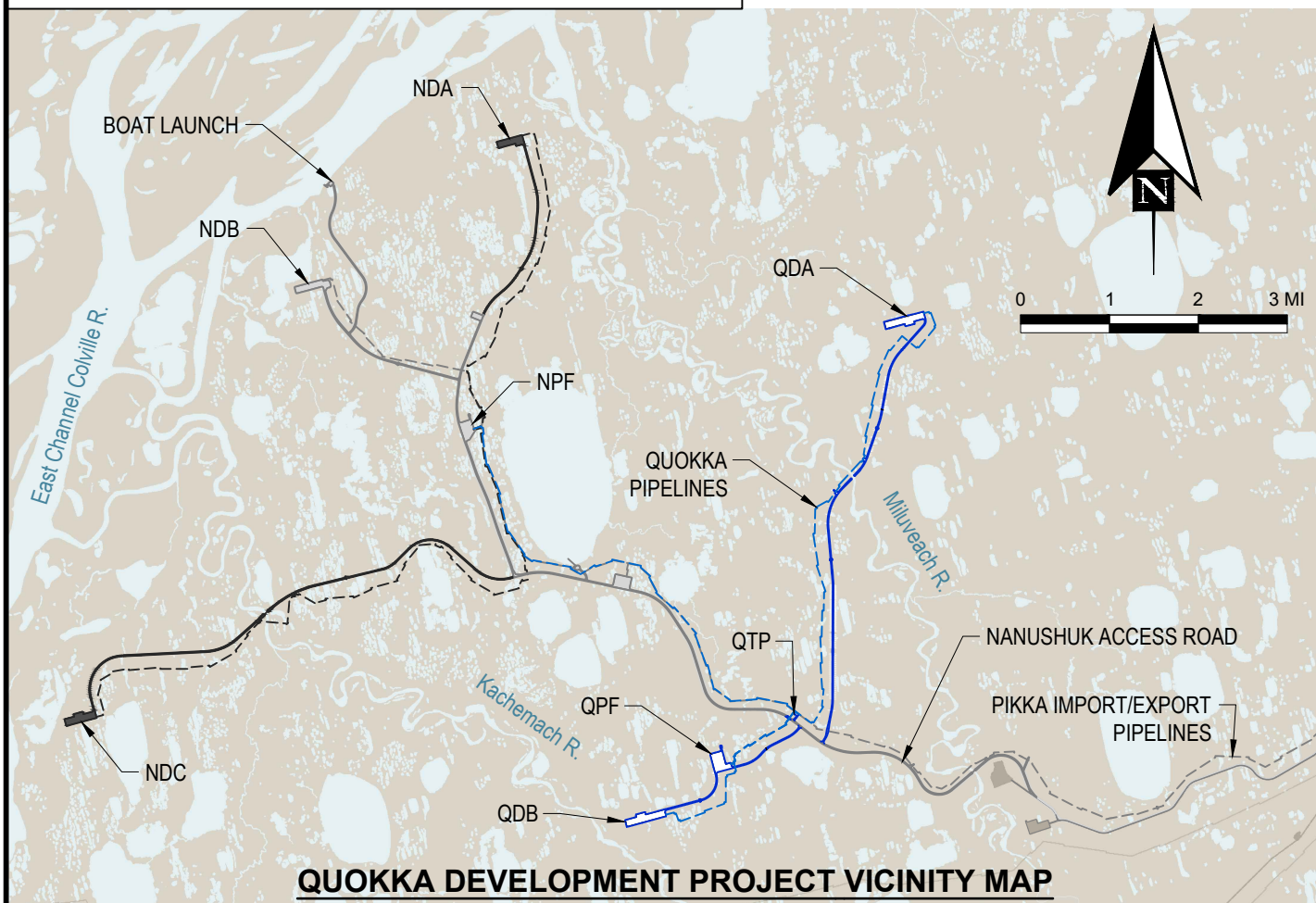




LEGEND

- PROPOSED GRAVEL ROAD
- PROPOSED PIPELINE
- PROPOSED PAD
- PIKKA GRAVEL ROAD (EXISTING)
- PIKKA PIPELINE (EXISTING)
- PIKKA PAD (EXISTING)
- PIKKA GRAVEL ROAD (PERMITTED)
- PIKKA PIPELINE (PERMITTED)
- PIKKA PAD (PERMITTED)
- GREATER KUPARUK AREA ROAD (EXISTING)
- GREATER KUPARUK AREA PIPELINE (EXISTING)
- GREATER KUPARUK AREA PAD/FACILITY (EXISTING)



DATUM: NAVD88, NAD83 ASP Zone 4

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

ADDRESS: 601 W. 5th Avenue
Anchorage, AK 99501

PROJECT: Quokka Development Project

LOCATION: T10N R7E; T11N R7E,
Umiat Meridian

ACTIVITY: Road, Pad and Pipeline
Construction

REFERENCE: POA-xxxx-xxxxx

WATERWAY: Miluveach River

COUNTY: North Slope Borough

STATE: Alaska

SHEET: 1 of 47

5/19/2026

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1	VICINITY MAP
2	SHEET INDEX
3	ADJACENT LAND OWNERSHIP
4	LAND OWNERSHIP CONTACT INFO
5	PROJECT OVERVIEW
6	FOOTPRINT ACREAGE AND VOLUMES SHT 1 OF 2
7	FOOTPRINT ACREAGE AND VOLUMES SHT 2 OF 2
8	QPF PAD PLAN
9	QPF PAD SECTIONS
10	QDA PAD PLAN
11	QDA PAD SECTIONS
12	QDB PAD PLAN
13	QDB PAD SECTIONS
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16	ROADS AND PIPELINES OVERVIEW
17	ROADS AND PIPELINES SHT 1 OF 6
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21	ROADS AND PIPELINES SHT 5 OF 6
22	ROADS AND PIPELINES SHT 6 OF 6
23	TYPICAL ROAD SECTIONS
24	TYPICAL SUBSISTENCE ACCESS RAMP

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26	TYPICAL VALVE PAD WITH TUNDRA ACCESS RAMP
27	CROSS DRAINAGE CULVERT CROSS SECTIONS
28	TYPICAL SINGLE AND MULTIPLE CULVERT BATTERY CROSS SECTIONS
29	FISH PASSAGE CULVERT CROSS SECTIONS
30	TROUBLE CREEK BRIDGE PLAN AND PROFILE
31	MILUVEACH RIVER BRIDGE PLAN AND PROFILE
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33	EXISTING PIPELINE OVERPASS PLAN AND PROFILE
34	QPF PIPELINE GUIDED PIPE SUPPORT
35	QPF PIPELINE ANCHOR PIPE SUPPORT
36	UTILITY PIPELINE GUIDED PIPE SUPPORT
37	UTILITY PIPELINE ANCHOR PIPE SUPPORT
38	QDA PIPELINE GUIDED PIPE SUPPORT
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42	PIPELINE DETAILS
43	TYPICAL ROAD PIPELINE CROSSING
44	EXISTING ROAD PIPELINE CROSSING
45	PIPELINE CROSSING OVER EXISTING PIPELINES
46	PIPELINE CROSSING PROFILES
47	OLIKTOK DOCK SCREEDING LAYOUT

SHEET INDEX

REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: 2 of 47 5/19/2026

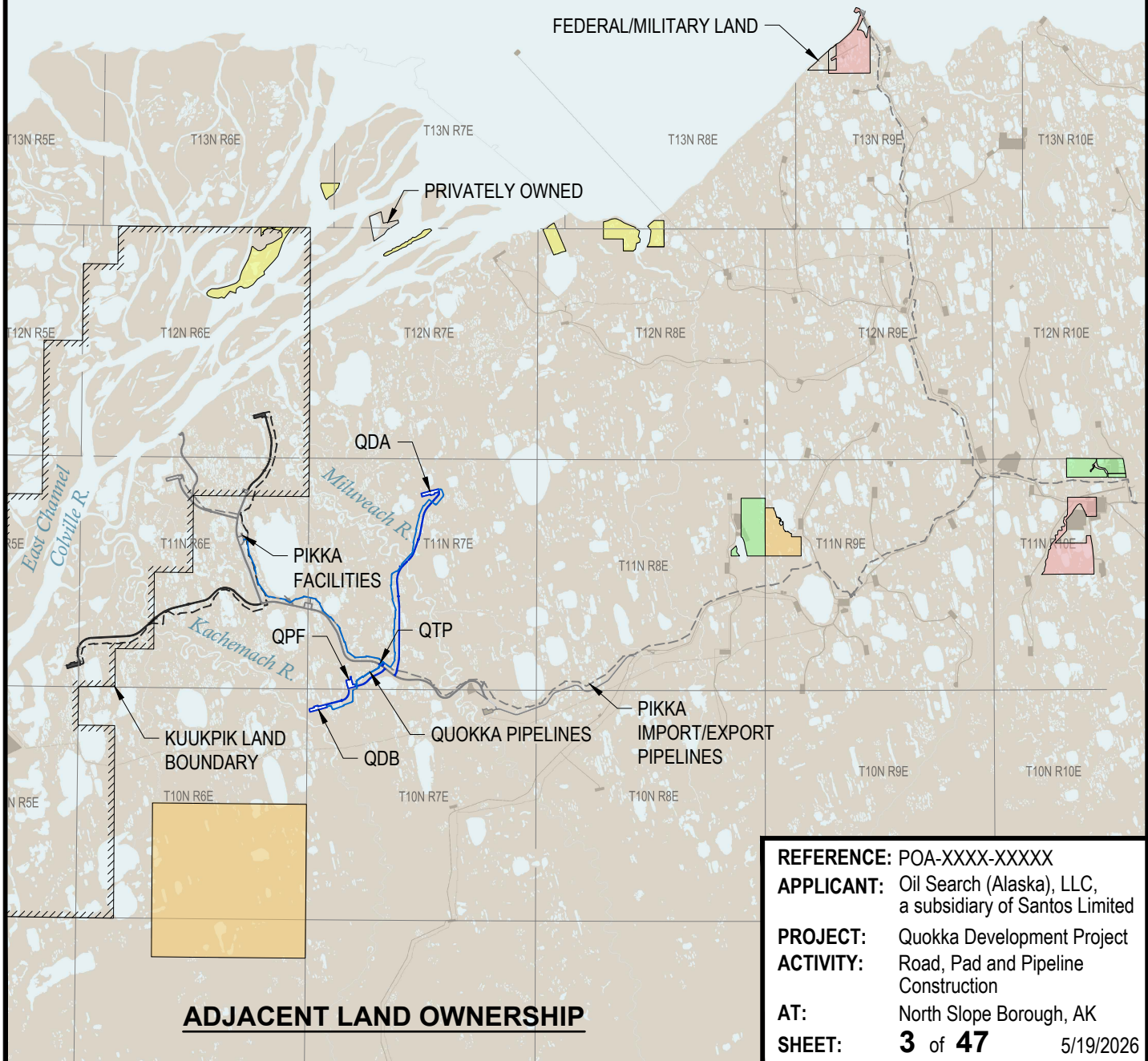
LEGEND

- | | | | |
|--|--|--|--------------------------------------|
| | PROPOSED GRAVEL ROAD | | NATIVE ALLOTMENT |
| | PROPOSED PIPELINE | | NORTH SLOPE BOROUGH SELECTED LAND |
| | PROPOSED PAD | | NORTH SLOPE BOROUGH APPROVED LAND |
| | PIKKA GRAVEL ROAD (EXISTING) | | CONVEYED LAND TO NORTH SLOPE BOROUGH |
| | PIKKA PIPELINE (EXISTING) | | KUUKPIK LANDS BOUNDARY |
| | PIKKA PAD (EXISTING) | | |
| | PIKKA GRAVEL ROAD (PERMITTED) | | |
| | PIKKA PIPELINE (PERMITTED) | | |
| | PIKKA PAD (PERMITTED) | | |
| | GREATER KUPARUK AREA ROAD (EXISTING) | | |
| | GREATER KUPARUK AREA PIPELINE (EXISTING) | | |
| | GREATER KUPARUK AREA PAD/FACILITY (EXISTING) | | |



0 2 4 6 MI

NOTE:
LAND NOT SPECIFICALLY LABELED IS
STATE OF ALASKA LAND.



ADJACENT LAND OWNERSHIP

LAND OWNERSHIP CONTACT INFO

KUUUKPIK VILLAGE CORPORATION
P.O. BOX 89187
NUIQSUT, AK 99789
(907) 480-6220

ARCTIC SLOPE REGIONAL CORPORATION
P.O. BOX 129
UTQIAGVIK, AK 99723
(907) 852-8633

NORTH SLOPE BOROUGH
LAND SERVICES DIVISION
P.O. BOX 69
UTQIAGVIK, AK 99723
(907) 852-2611

ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
550 W. 7TH AVE, SUITE 1100
ANCHORAGE, AK 99501-3563
(907) 269-8800

UNITED STATES OF AMERICA, DEPARTMENT OF THE ARMY, DIVISION OF REAL ESTATE
U.S. ARMY ENGINEER DISTRICT, ALASKA
P.O. BOX 6898
JBER, AK 99506-6898
(907) 753-2859

LAND OWNERSHIP CONTACT INFO

REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project

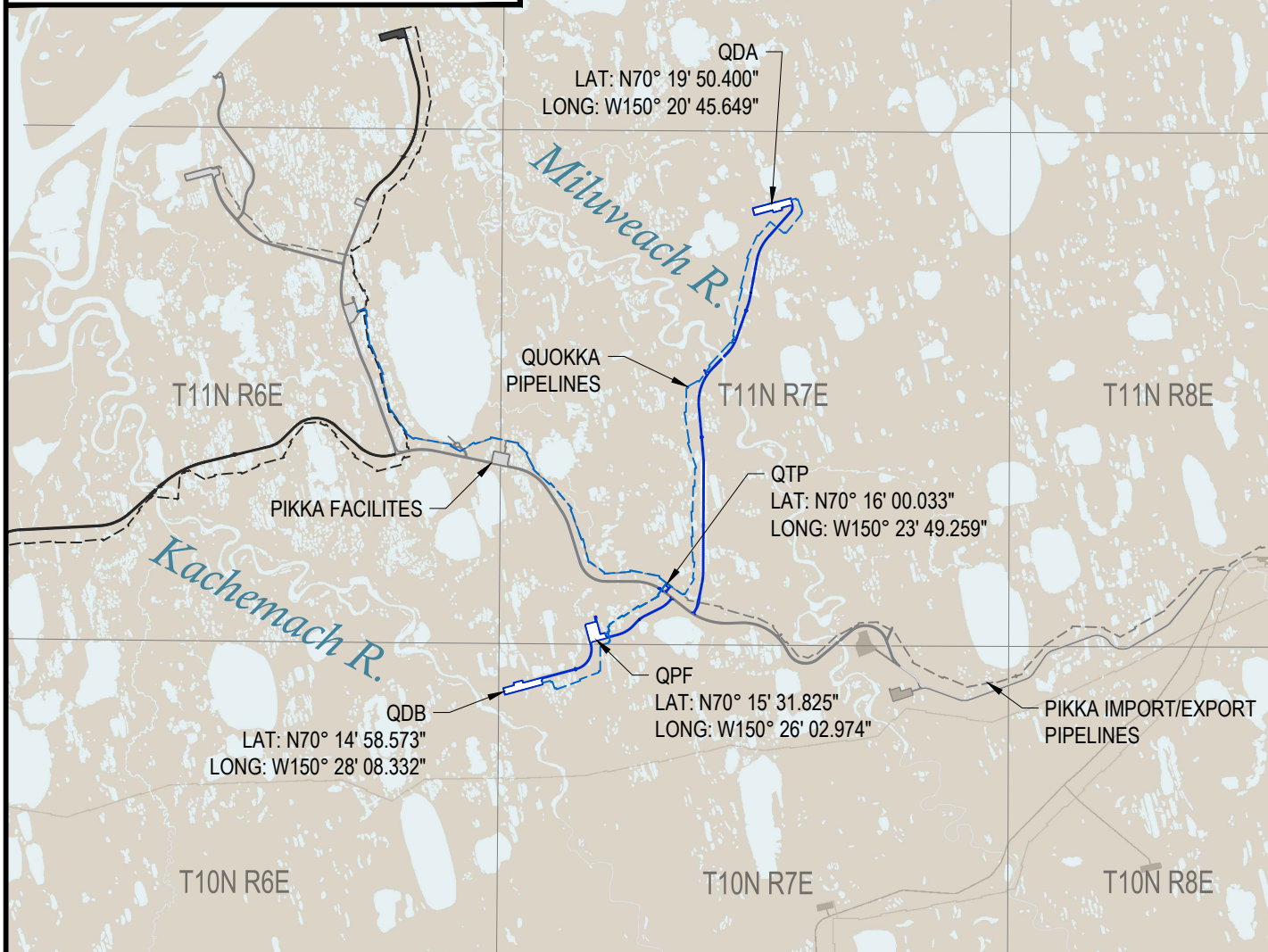
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **4** of **47** 5/19/2026

LEGEND

- PROPOSED GRAVEL ROAD
- - - PROPOSED PIPELINE
- PROPOSED PAD
- PIKKA GRAVEL ROAD (EXISTING)
- - - PIKKA PIPELINE (EXISTING)
- PIKKA PAD (EXISTING)
- PIKKA GRAVEL ROAD (PERMITTED)
- - - PIKKA PIPELINE (PERMITTED)
- PIKKA PAD (PERMITTED)
- GREATER KUPARUK AREA ROAD (EXISTING)
- - - GREATER KUPARUK AREA PIPELINE (EXISTING)
- GREATER KUPARUK AREA PAD/FACILITY (EXISTING)



PROJECT OVERVIEW

REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **5** of **47** 5/19/2026

GRAVEL PADS			
FEATURE		GRAVEL FILL (CY)	FOOTPRINT (AC)
QPF PAD		272,000±	22.3±
QDA PAD		506,000±	26.6±
QDB PAD		350,000±	25.7±
VALVE PADS		12,000±	1.1±
QTP		13,000±	1.4±
SUBSISTENCE ACCESS RAMPS		3,000±	0.5±
GRAVEL ROADS			
FEATURE	LENGTH (MI)	GRAVEL FILL (CY)	FOOTPRINT (AC)
QPF ROAD	1.1±	68,000±	7.8±
QDA ROAD	5.1±	344,000±	37.6±
QDB ROAD	0.8±	51,000±	6.0±
EXISTING ROAD PIPELINE CROSSING **	0.2±	1,100±	0.03±
TOTAL ROADS, PADS, AND SUBSISTENCE ACCESS RAMPS	7.2±	1,620,100±	129.1±

BRIDGES				
FEATURE	LENGTH (LF)	PILE/CASING DIA (IN)	# PILES/CASINGS BELOW OHW	FOOTPRINT BELOW OHW (SF)
TROUBLE CREEK BRIDGE *	50	42	0	0
MILUVEACH RIVER BRIDGE *	220	42	12	115
TROUBLE CREEK PIPELINE CROSSING	---	36	0	0
MILUVEACH RIVER PIPELINE CROSSING	---	36	2	14

* BRIDGE LENGTHS REPRESENT OPENING WIDTHS, MEASURED FROM FACE-OF-ABUTMENT TO FACE-OF-ABUTMENT.

** A ROAD PIPELINE CROSSING FOR THE NEW QPF PIPELINE ON THE EXISTING NANUSHUK ACCESS ROAD.
THE MAJORITY OF NEW GRAVEL FILL WILL BE PLACED WITHIN THE EXISTING ROAD FOOTPRINT.

NOTES:

1. ACREAGE AND VOLUME QUANTITIES REPORTED ABOVE ARE PROJECT TOTALS, INCLUDING FILL IN UPLANDS AS WELL AS WATERS OF THE U.S.
2. TABULATED VALUES ARE ROUNDED AND MAY NOT EXACTLY MATCH TOTALED VALUES.

FOOTPRINT ACREAGE AND VOLUMES SHT 1 OF 2

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: 6 of 47 5/19/2026

PIPELINES			
FEATURE	VSM (TOTAL)*	TOTAL VSM AREA	TOTAL VSM SLURRY
VSM AND SLURRY:	(EA)	(SF)	VOL (CY)
QPF PIPELINE	140±	990±	4,020±
UTILITY PIPELINE	830±	5,870±	23,820±
QDA PIPELINE	850±	6,010±	24,390±
QDB PIPELINE	180±	1,280±	5,200±
TOTAL	2,000±	14,150±	57,430±

NOTES:

1. VSM AREA IS BASED ON THE LARGEST SIZE VSM CASING FOR THE PROJECT (36" DIAMETER).
2. ACTUAL VSM SIZES WILL RANGE FROM 8" OUTSIDE DIAMETER TO 24" OUTSIDE DIAMETER.
3. SLURRY VOLUMES BASED ON 5" ANNULUS AND 22' EMBEDMENT.

FEATURE	FOOTPRINT (AC)	FILL QUANTITY (CY)	NOTES/DIMENSIONS
SCREEDING FOOTPRINT	5.4±	---	500' x 470' SCREEDING AREA

SUMMARY TABLE		
COMPONENT	FILL TOTAL (CY)	FOOTPRINT (AC)
ROADS AND PADS TOTAL	1,617,100±	128.6±
SUBSISTENCE ACCESS TOTAL	3,000±	0.5±
VSM AND SLURRY TOTAL	57,430±	0.3±
SCREEDING TOTAL	---	5.4±
OVERALL TOTAL	1,677,530±	134.8±

NOTES:

1. ACREAGE AND VOLUME QUANTITIES REPORTED ABOVE ARE PROJECT TOTALS, INCLUDING FILL IN UPLANDS AS WELL AS WATERS OF THE U.S.
2. TABULATED VALUES ARE ROUNDED AND MAY NOT EXACTLY MATCH TOTALED VALUES.

FOOTPRINT ACREAGE AND VOLUMES SHT 2 OF 2

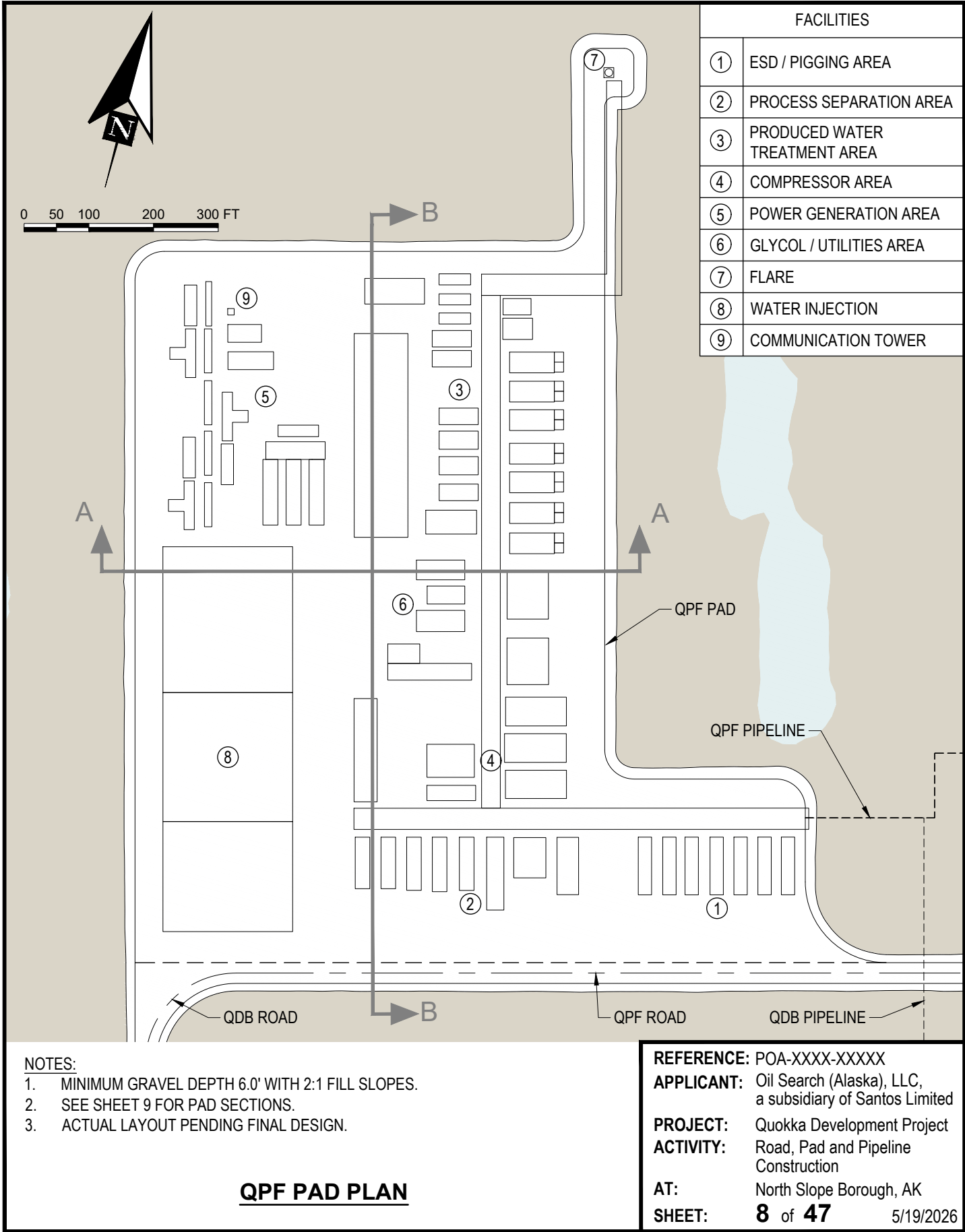
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

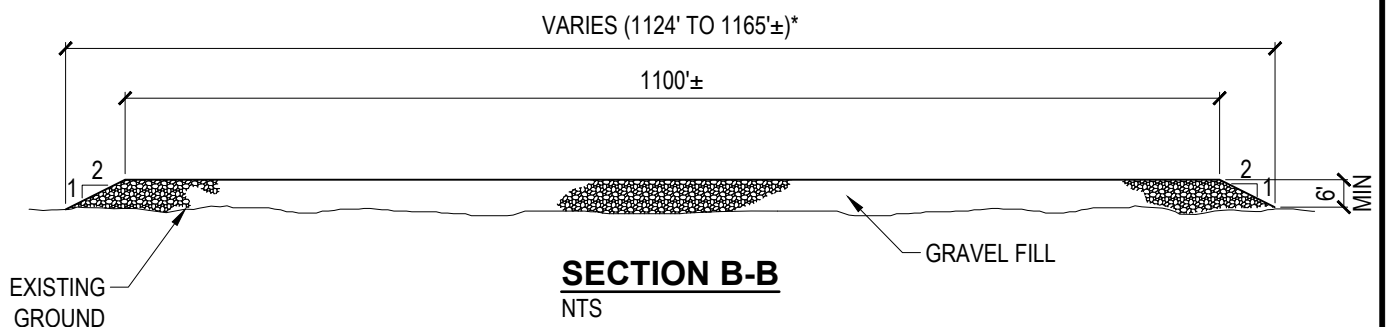
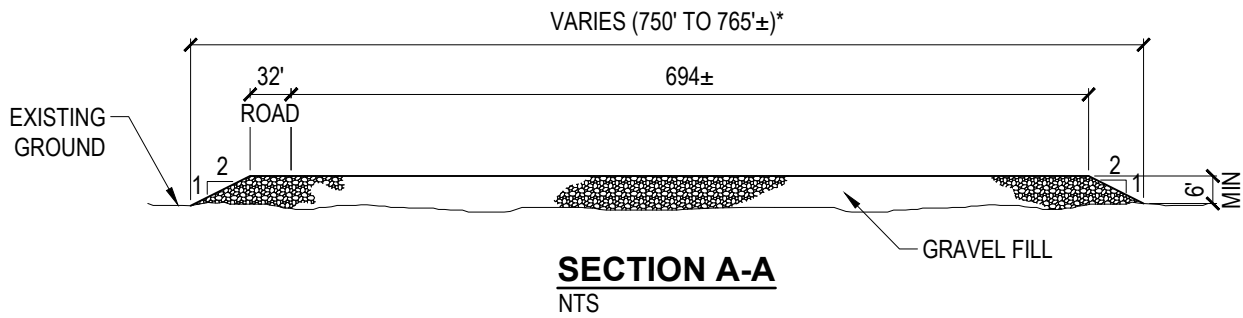
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: 7 of 47 5/19/2026



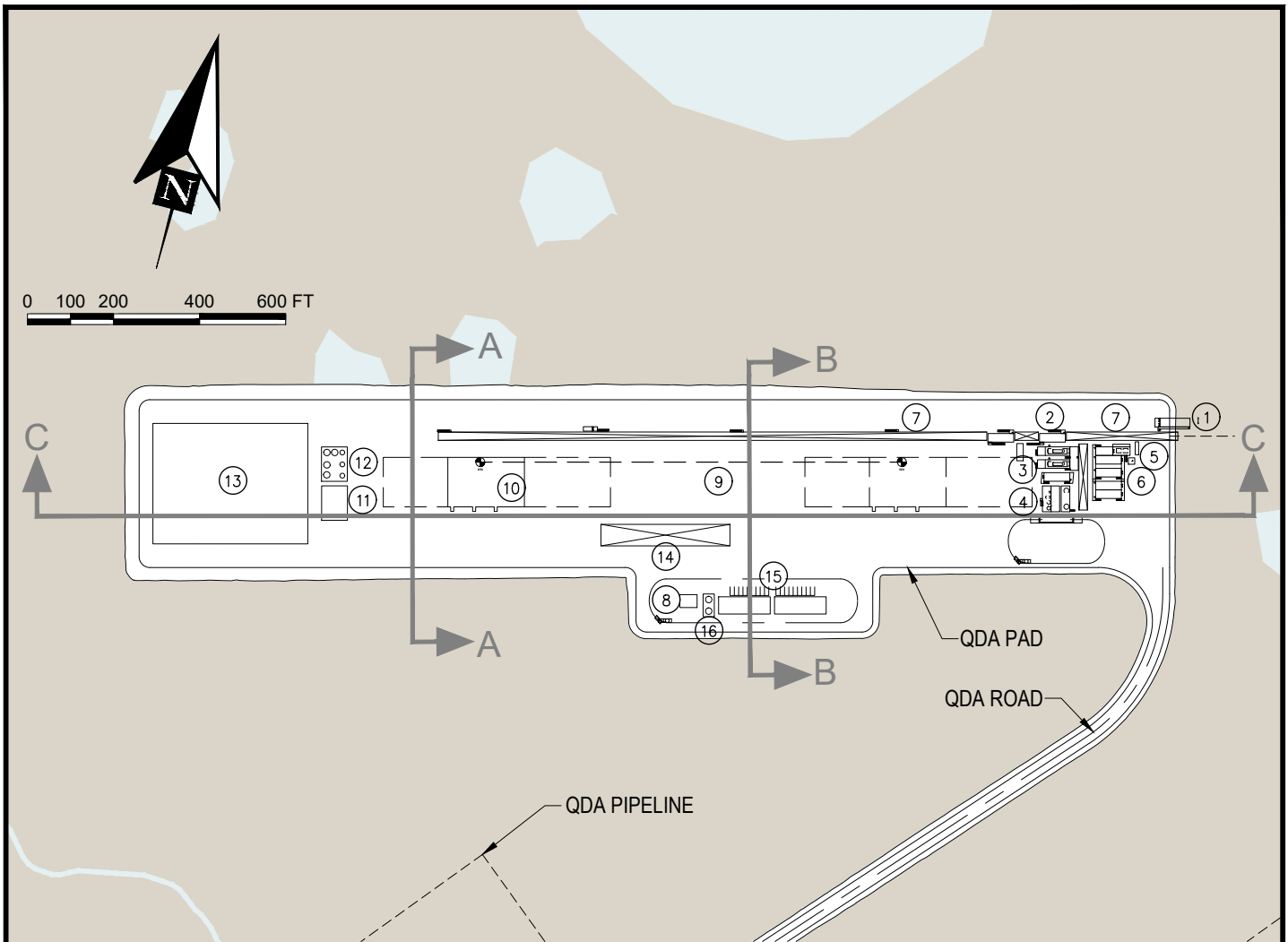
QPF PAD PLAN



***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE ESTIMATED. ACTUAL
DIMENSIONS WILL VARY BASED UPON LOCAL TOPOGRAPHY.

QPF PAD SECTIONS

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **9** of **47** 5/19/2026



FACILITIES			
①	PIGGING MODULE	⑦	PIPE RACK(S)
②	ESD/METERING MODULE	⑧	COLD STORAGE/EMERGENCY RESPONSE
③	PRODUCTION HEATER MODULE (2)	⑨	WELL ROW
④	BULK STORAGE TANK PLATFORM	⑩	DRILL RIG COMPONENTS FOOTPRINT
⑤	REIM	⑪	DRILL RIG SHOP
⑥	COMMUNICATIONS TOWER	⑫	TANK FARM
		⑬	WELL STIMULUS EQUIPMENT
		⑭	DRILLING LAYDOWN AREA
		⑮	TEMPORARY CAMP(S)
		⑯	WASTE/WATER TANKS

NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 11 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.

QDA PAD PLAN

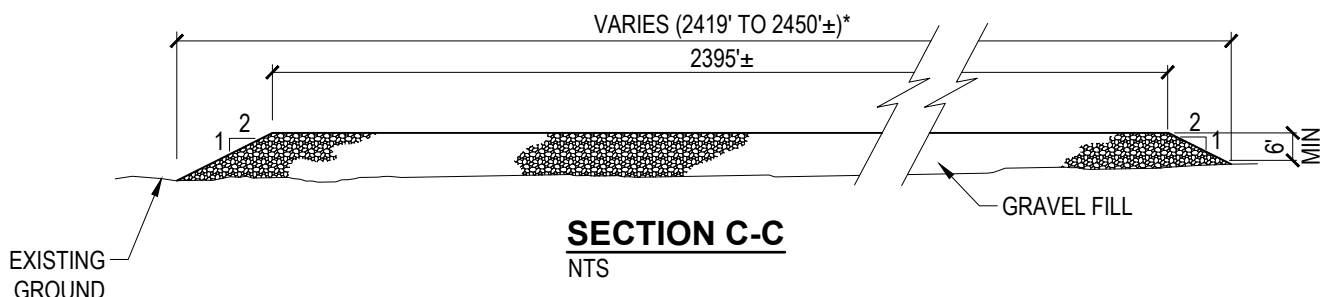
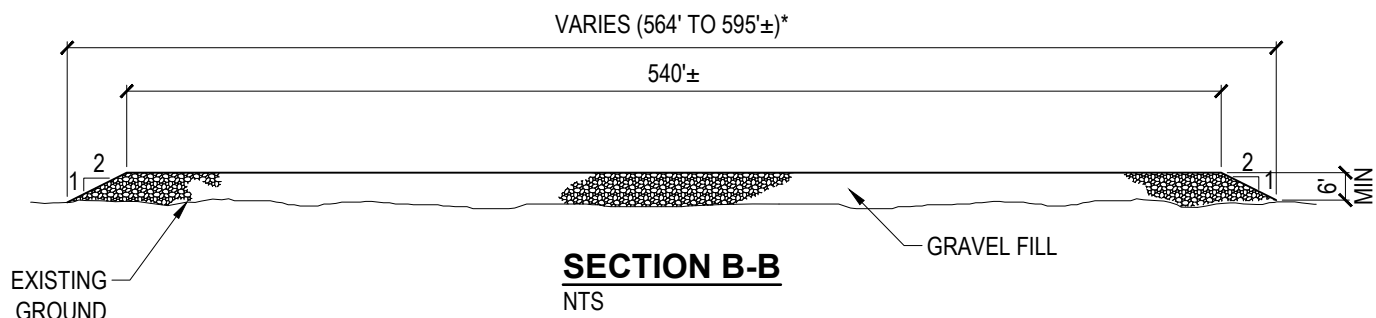
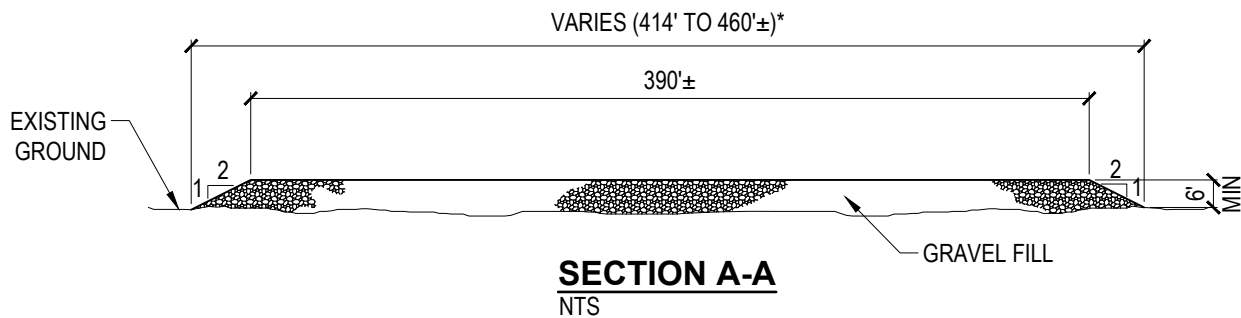
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

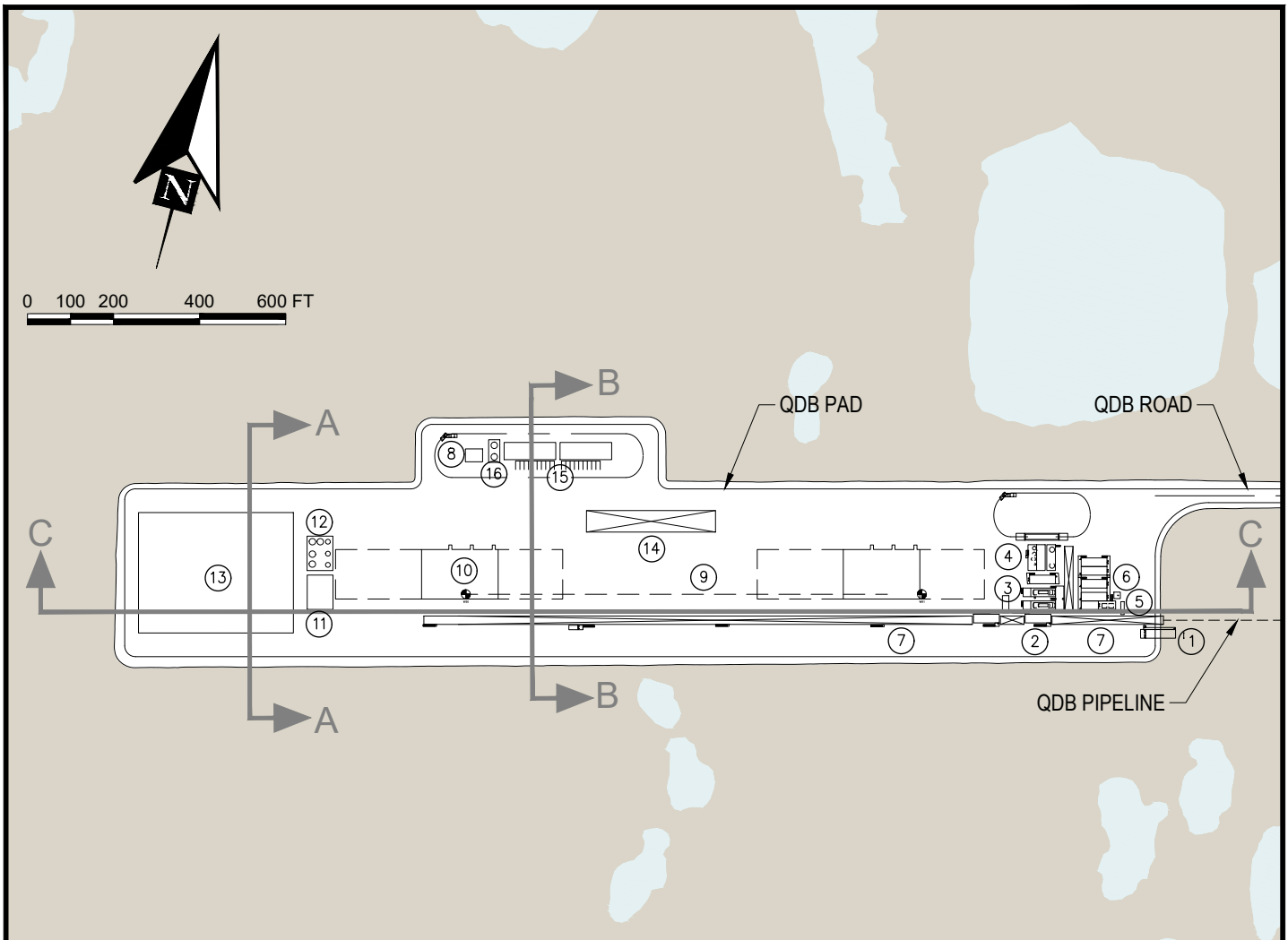
SHEET: **10** of **47** 5/19/2026



***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE ESTIMATED. ACTUAL
DIMENSIONS WILL VARY BASED UPON LOCAL TOPOGRAPHY.

QDA PAD SECTIONS

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **11** of **47** 5/19/2026



PLAN

FACILITIES			
①	PIGGING MODULE	⑦	PIPE RACK(S)
②	ESD/METERING MODULE	⑧	COLD STORAGE/EMERGENCY RESPONSE
③	PRODUCTION HEATER MODULE (2)	⑨	WELL ROW
④	BULK STORAGE TANK PLATFORM	⑩	DRILL RIG COMPONENTS FOOTPRINT
⑤	REIM	⑪	DRILL RIG SHOP
⑥	COMMUNICATIONS TOWER	⑫	TANK FARM
		⑬	WELL STIMULUS EQUIPMENT
		⑭	DRILLING LAYDOWN AREA
		⑮	TEMPORARY CAMP(S)
		⑯	WASTE/WATER TANKS

NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 13 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.
4. SLOPE PROTECTION AS NEEDED.

REFERENCE: POA-XXXX-XXXXX

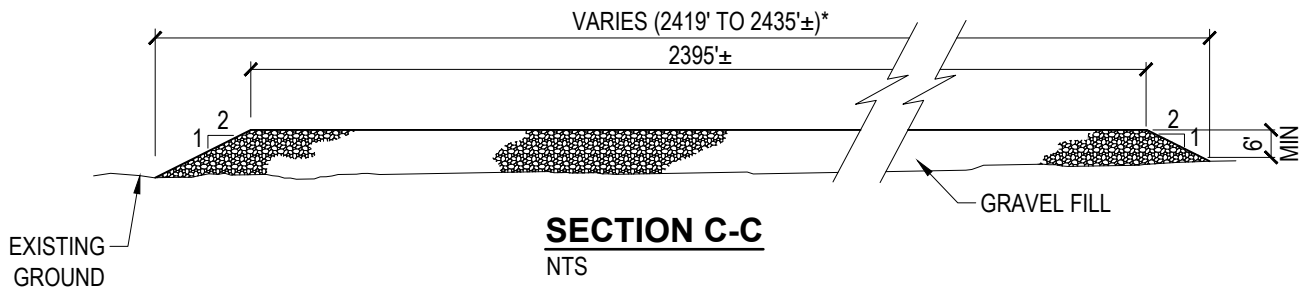
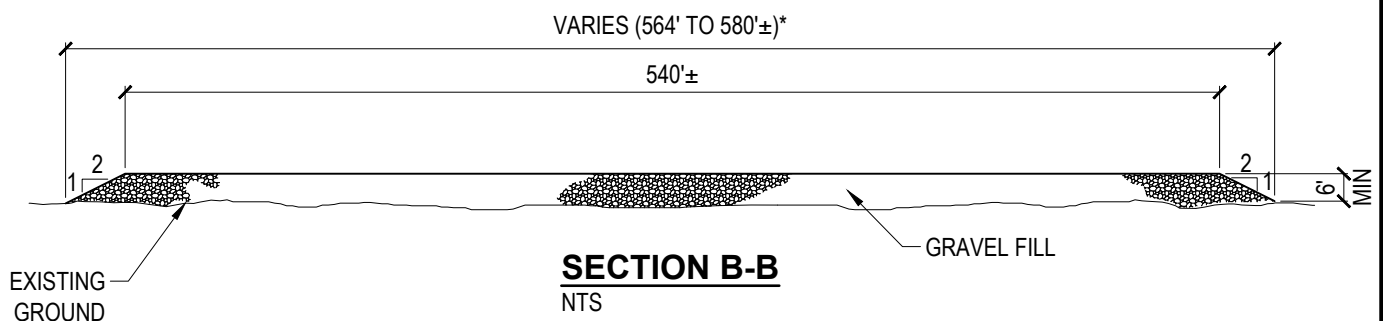
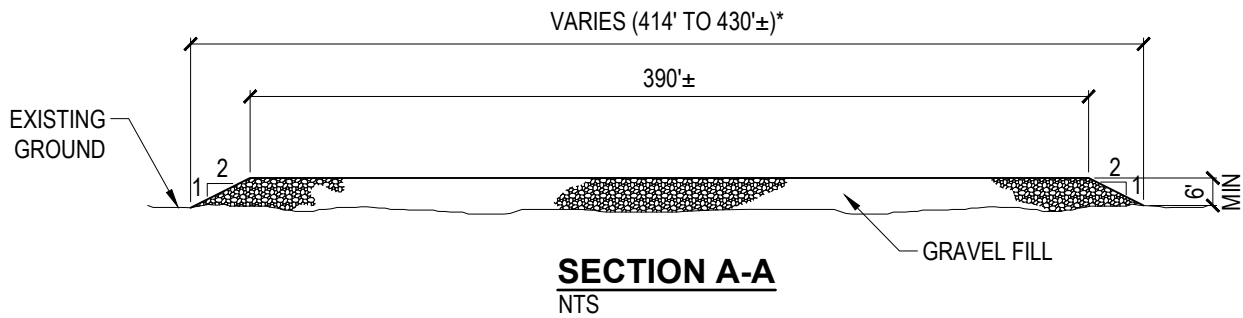
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **12** of **47** 5/19/2026

QDB PAD PLAN



***NOTES:**

1. MAX TOE TO TOE DIMENSIONS ARE ESTIMATED. ACTUAL DIMENSIONS WILL VARY BASED UPON LOCAL TOPOGRAPHY.
2. SLOPE PROTECTION AS NEEDED.

QDB PAD SECTIONS

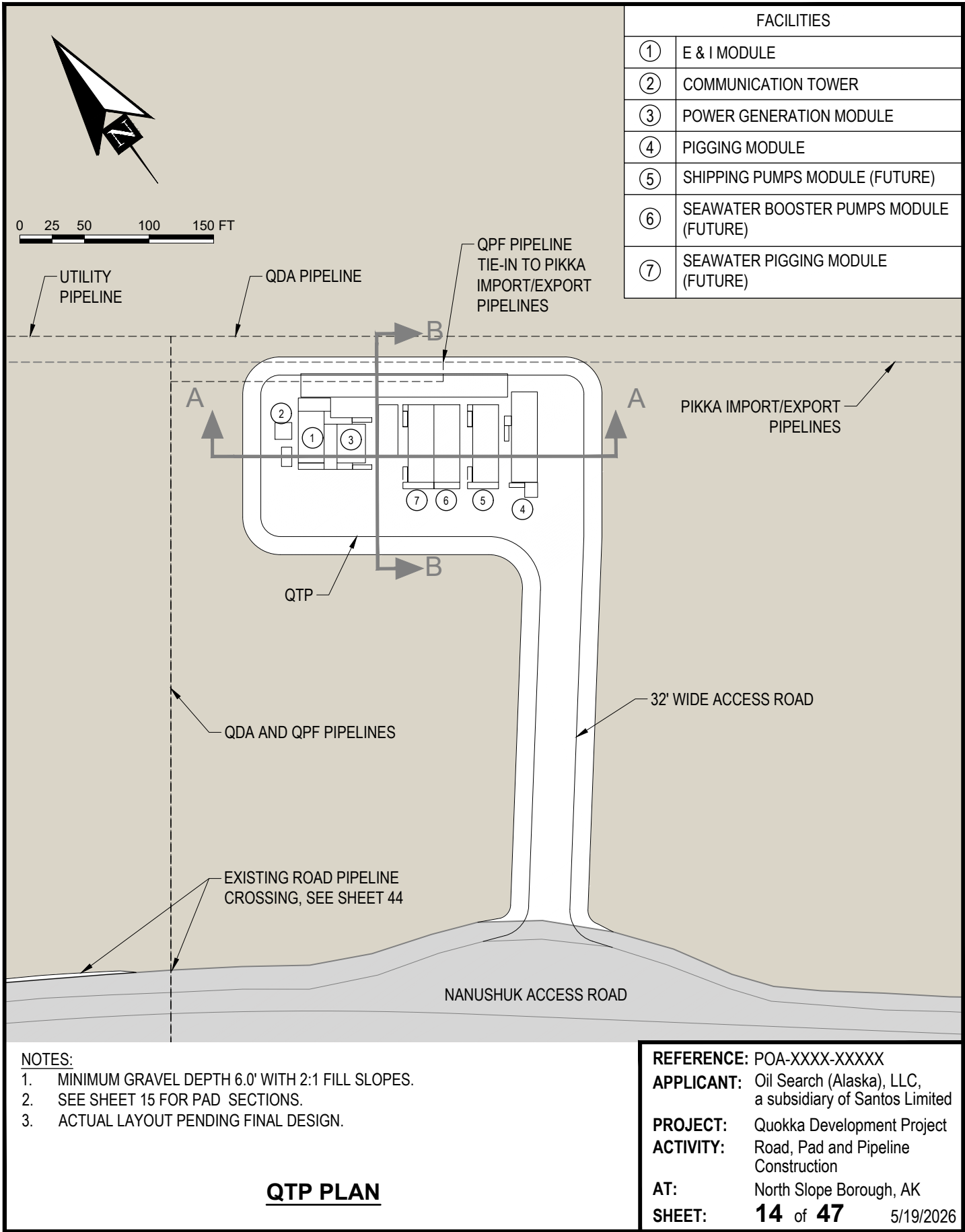
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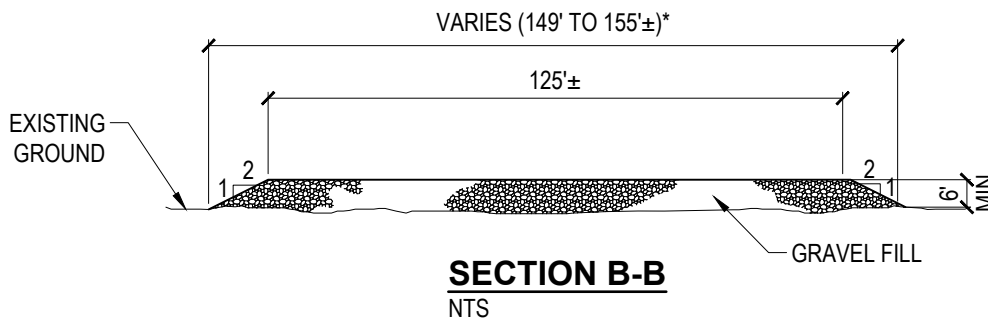
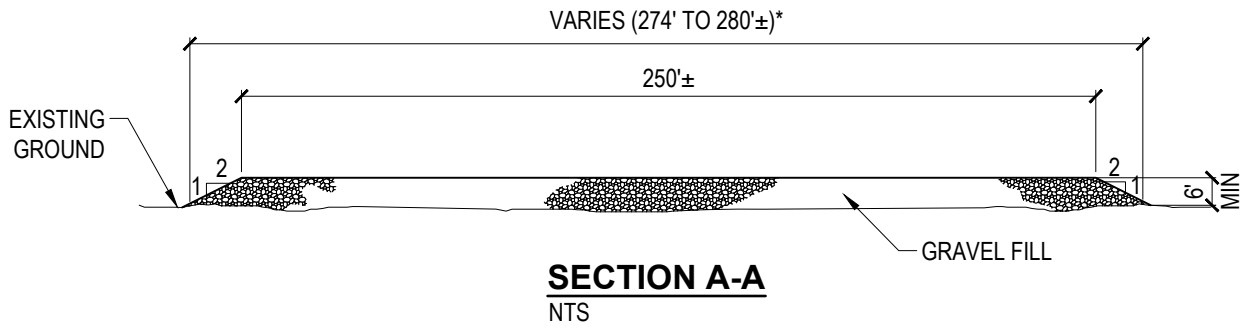
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **13** of **47** 5/19/2026





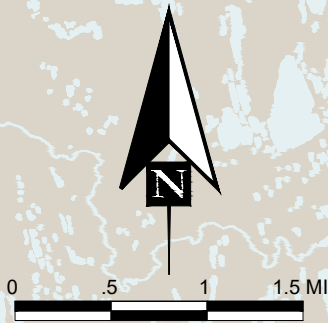
***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE ESTIMATED. ACTUAL
DIMENSIONS WILL VARY BASED UPON LOCAL TOPOGRAPHY.

QTP SECTIONS

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **15** of **47** 5/19/2026

LEGEND

- PROPOSED GRAVEL ROAD
- - - PROPOSED PIPELINE
- PROPOSED PAD
- PIKKA GRAVEL ROAD (EXISTING)
- - - PIKKA PIPELINE (EXISTING)
- PIKKA PAD (EXISTING)
- PIKKA GRAVEL ROAD (PERMITTED)
- - - PIKKA PIPELINE (PERMITTED)
- PIKKA PAD (PERMITTED)
- GREATER KUPARUK AREA ROAD (EXISTING)
- - - GREATER KUPARUK AREA PIPELINE (EXISTING)
- GREATER KUPARUK AREA PAD/FACILITY (EXISTING)



SHEET 17

QDA PAD

SUBSISTENCE
ACCESS RAMP

TROUBLE CREEK

SHEET 18

QDA ROAD

SUBSISTENCE
ACCESS RAMP

SHEET 19

NOP PAD

NANUSHUK ACCESS ROAD

MILUVEACH R.

SHEET 20

QTP

Kachemach R.

PIKKA
IMPORT/EXPORT
PIPELINES

SHEET 22

SUBSISTENCE
ACCESS RAMP

QPF PAD

QPF ROAD

QUOKKA PIPELINES

SHEET 21

QDB PAD

QDB ROAD

ROADS AND PIPELINES OVERVIEW

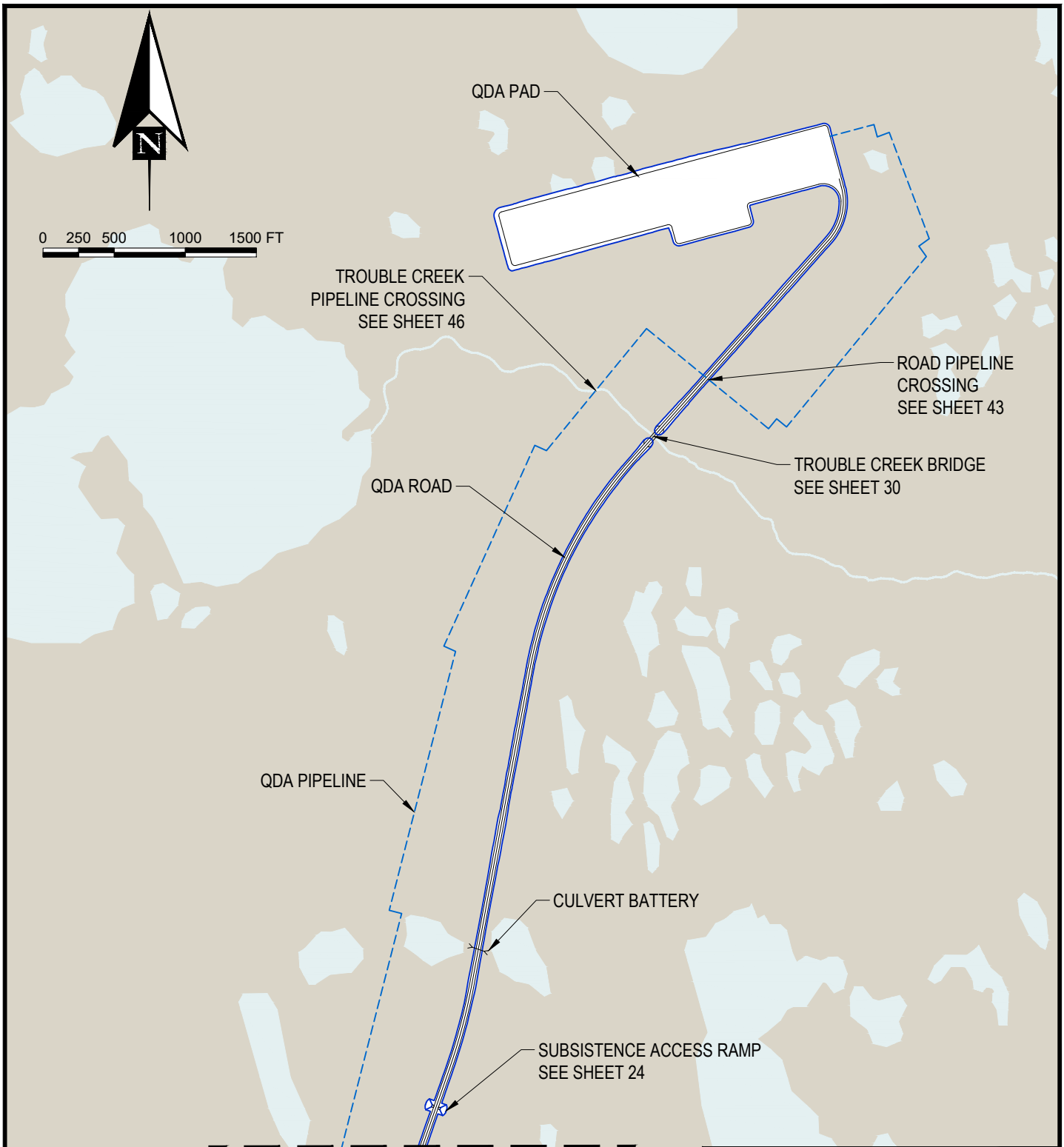
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **16** of **47** 5/19/2026



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 16.

ROADS AND PIPELINES SHT 1 OF 6

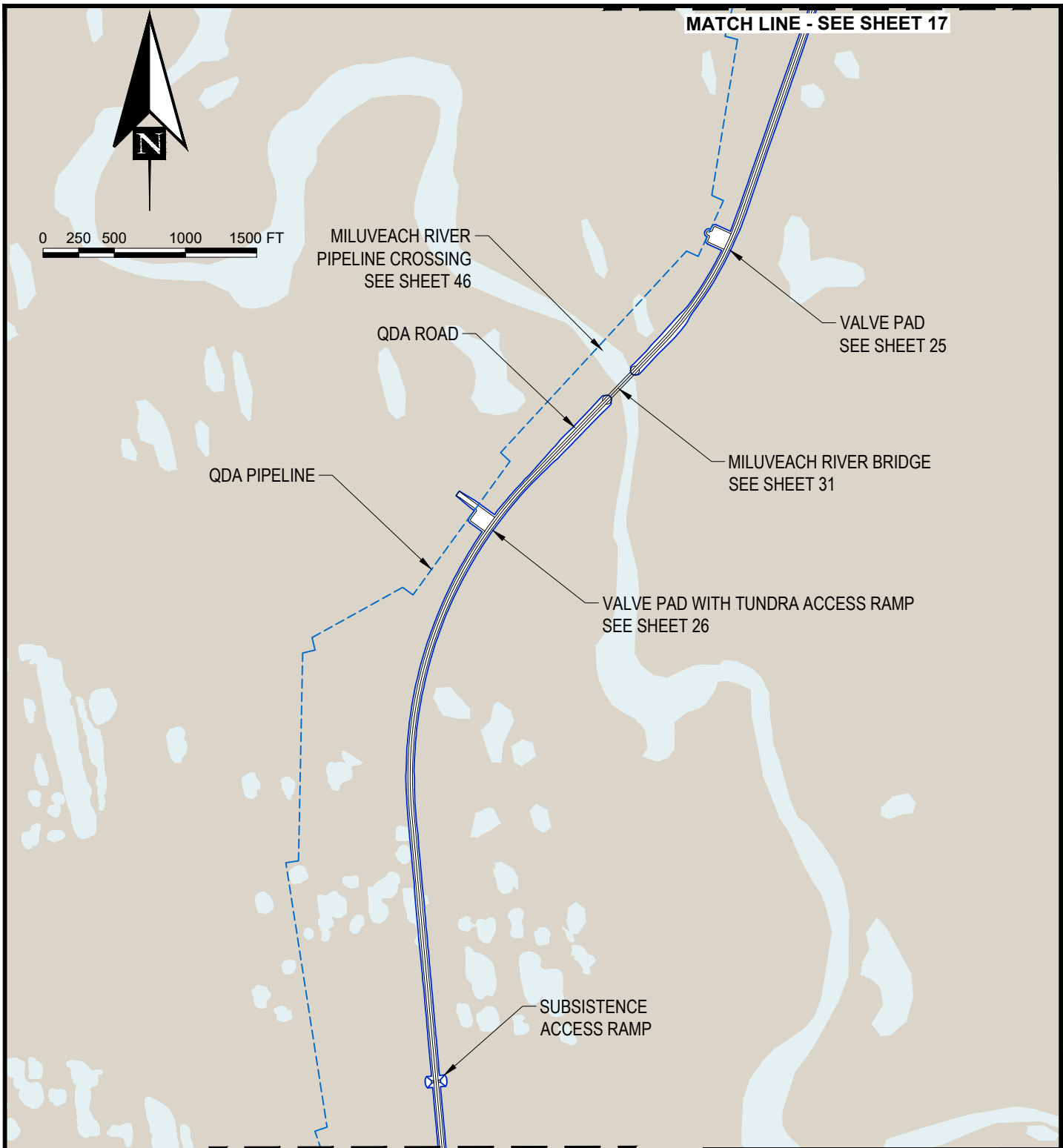
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **17** of **47** 5/19/2026



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 16.

ROADS AND PIPELINES SHT 2 OF 6

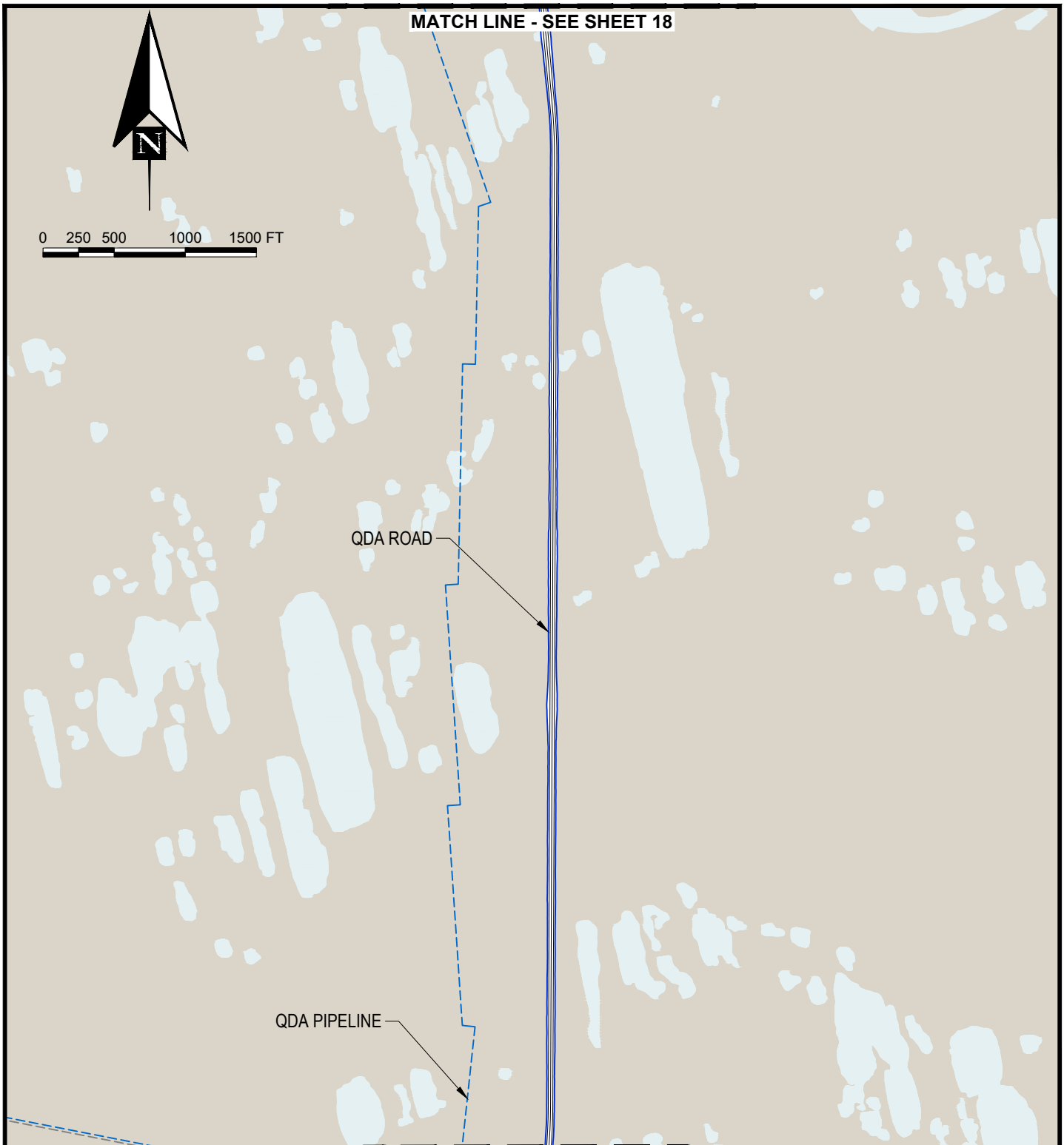
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **18** of **47** 5/19/2026



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 16.

ROADS AND PIPELINES SHT 3 OF 6

REFERENCE: POA-XXXX-XXXXX

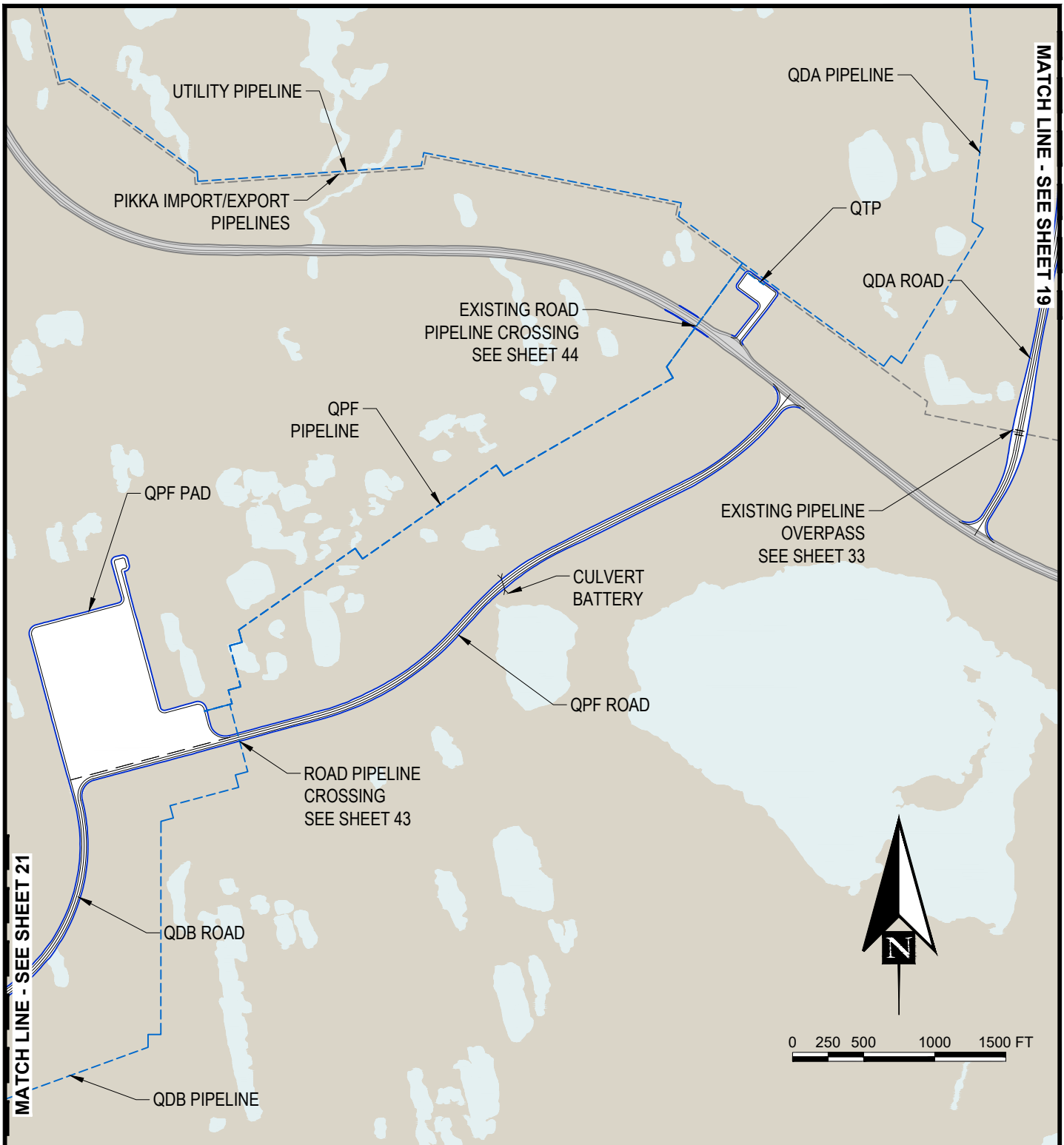
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **19** of **47** 5/19/2026



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 16.

ROADS AND PIPELINES SHT 4 OF 6

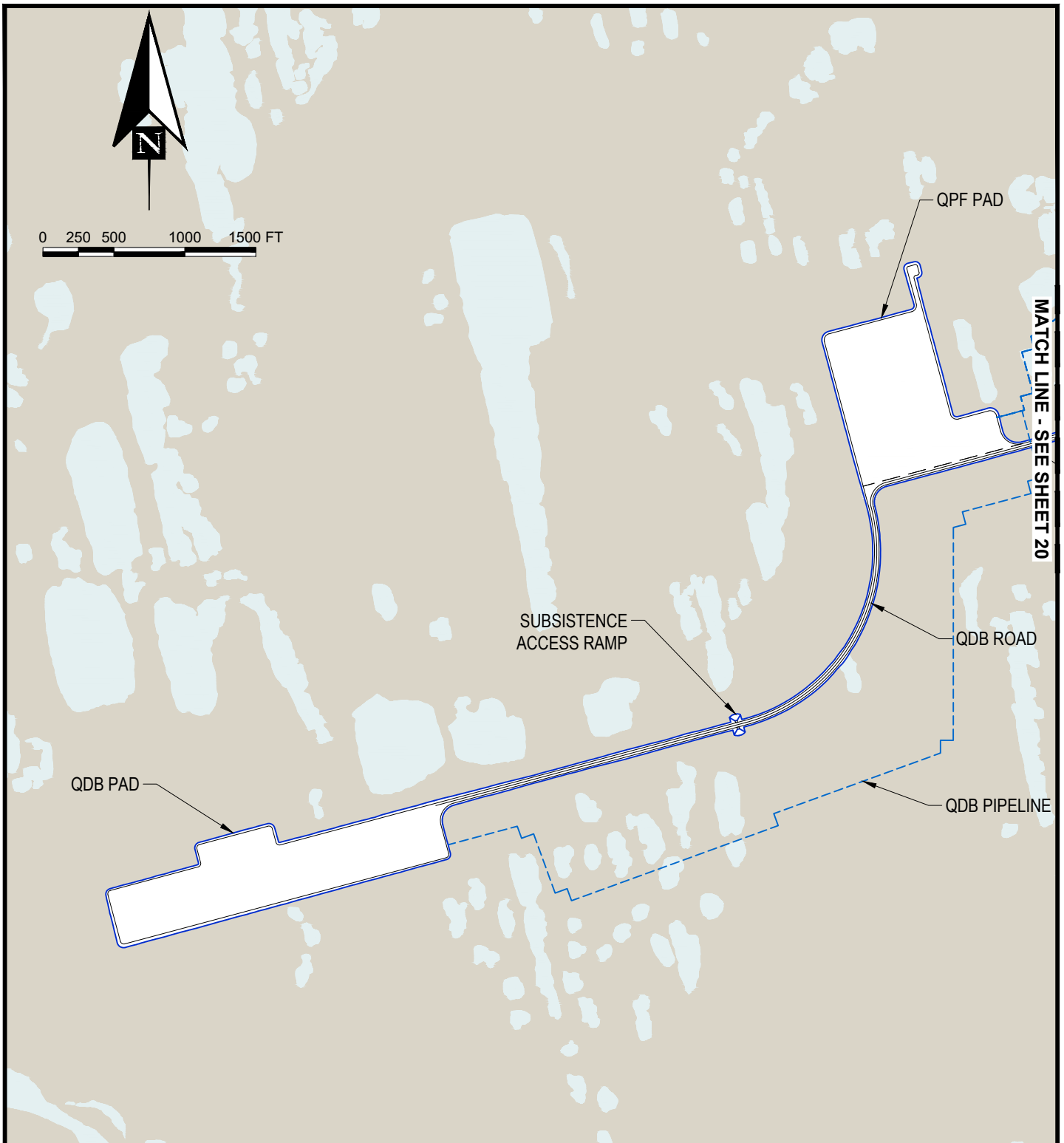
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **20** of **47** 5/19/2026



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 16.

ROADS AND PIPELINES SHT 5 OF 6

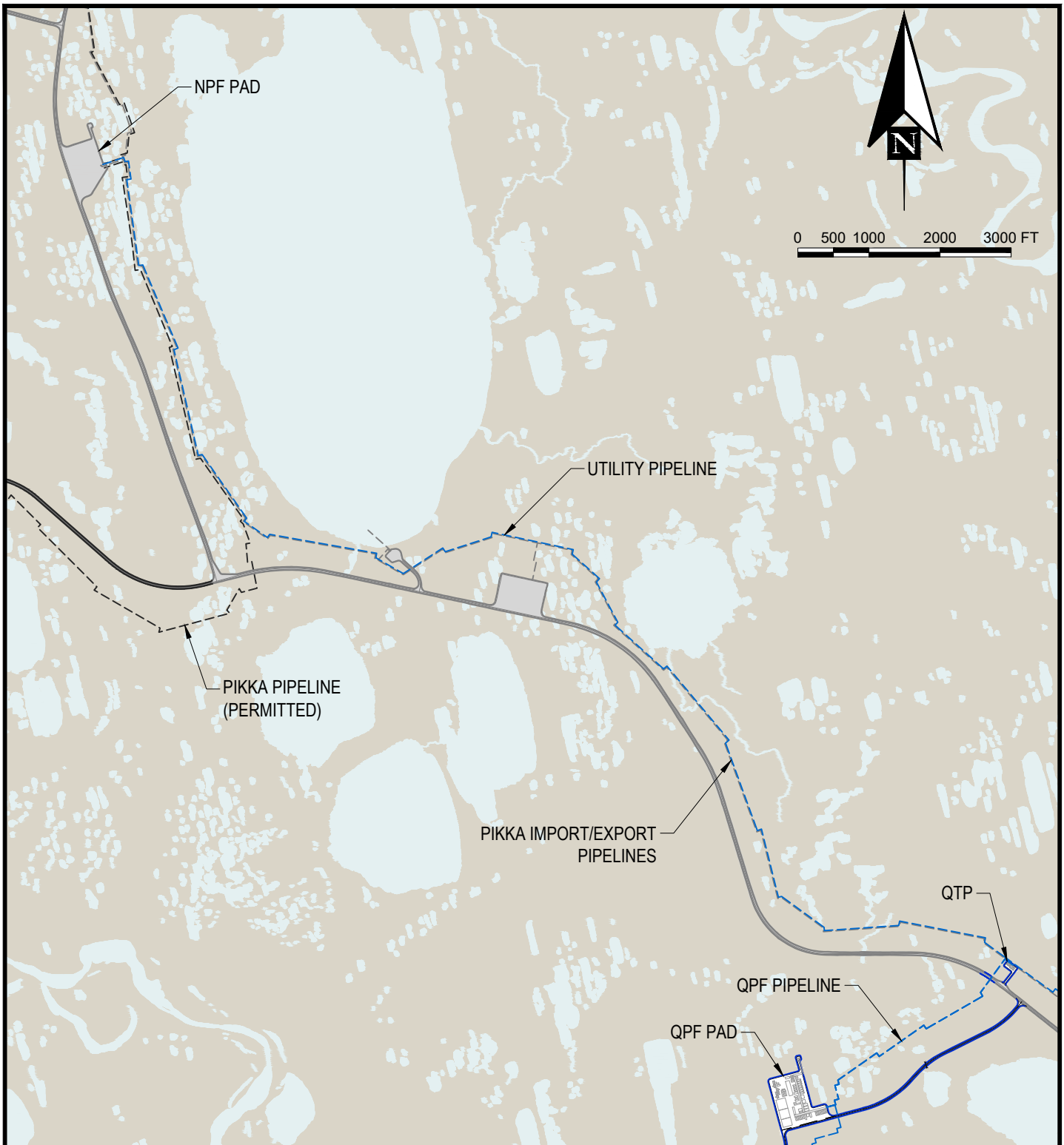
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **21** of **47** 5/19/2026



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 16.

ROADS AND PIPELINES SHT 6 OF 6

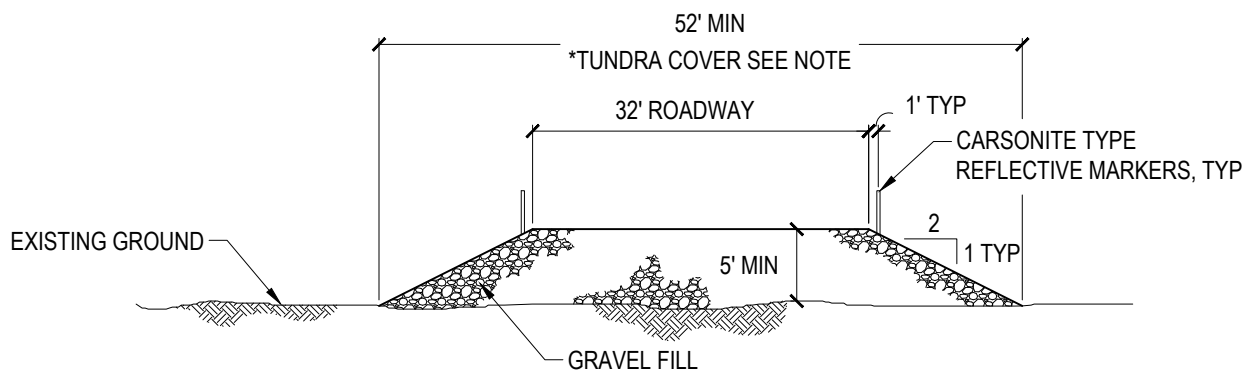
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **22** of **47** 5/19/2026



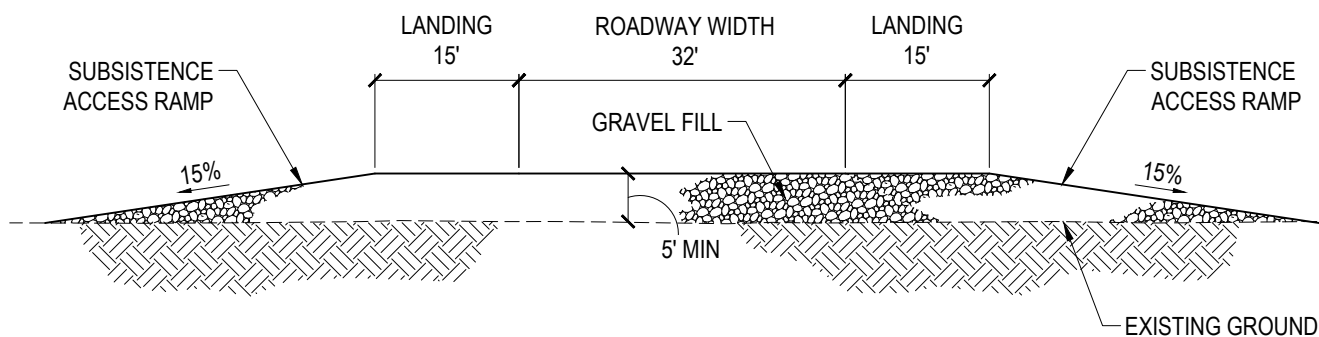
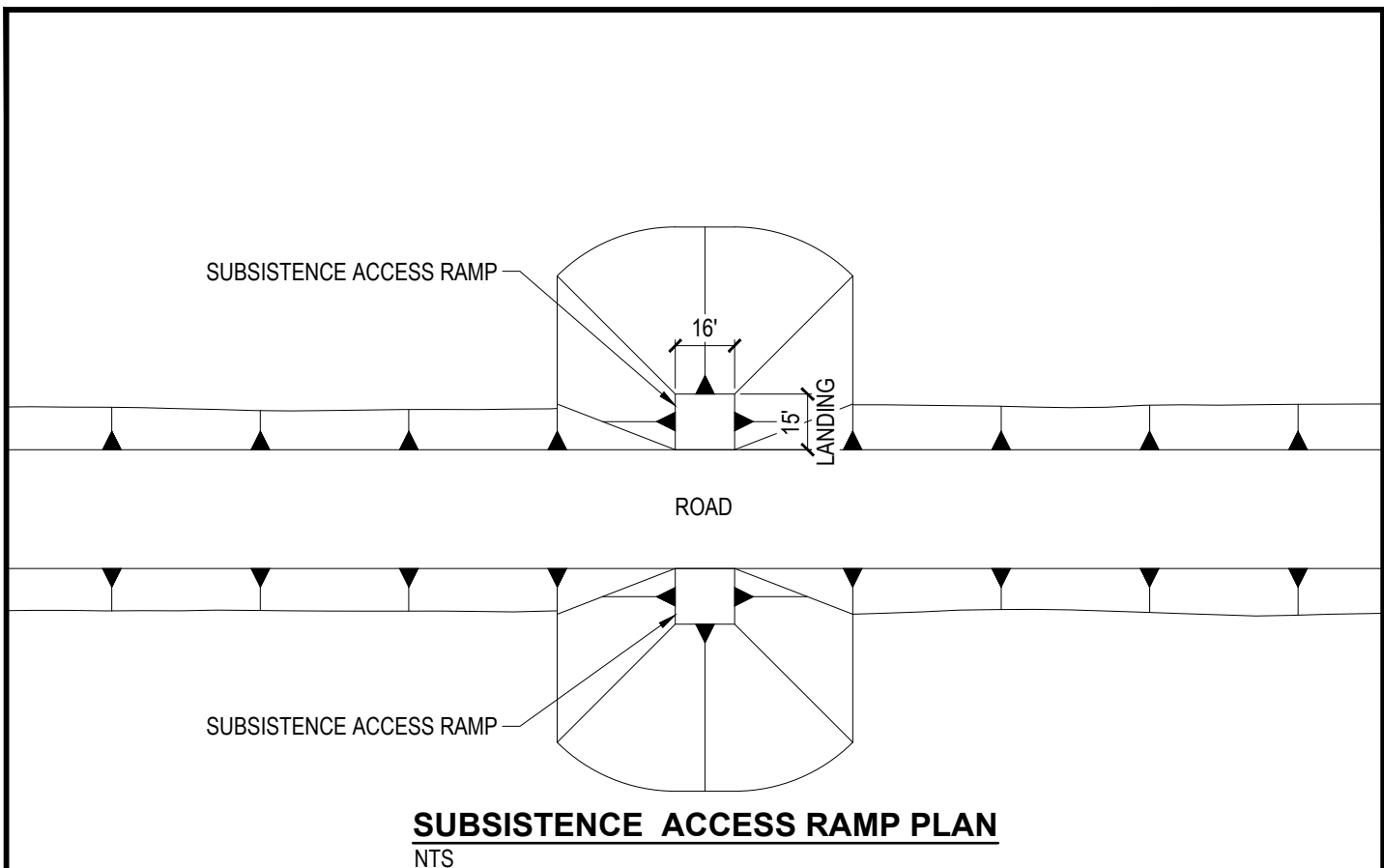
TYPICAL GRAVEL ROAD SECTION
NTS

NOTE:

* MINIMUM TOE TO TOE DIMENSIONS ARE ESTIMATED.
ACTUAL DIMENSIONS WILL VARY BASED UPON LOCAL TOPOGRAPHY.

TYPICAL ROAD SECTIONS

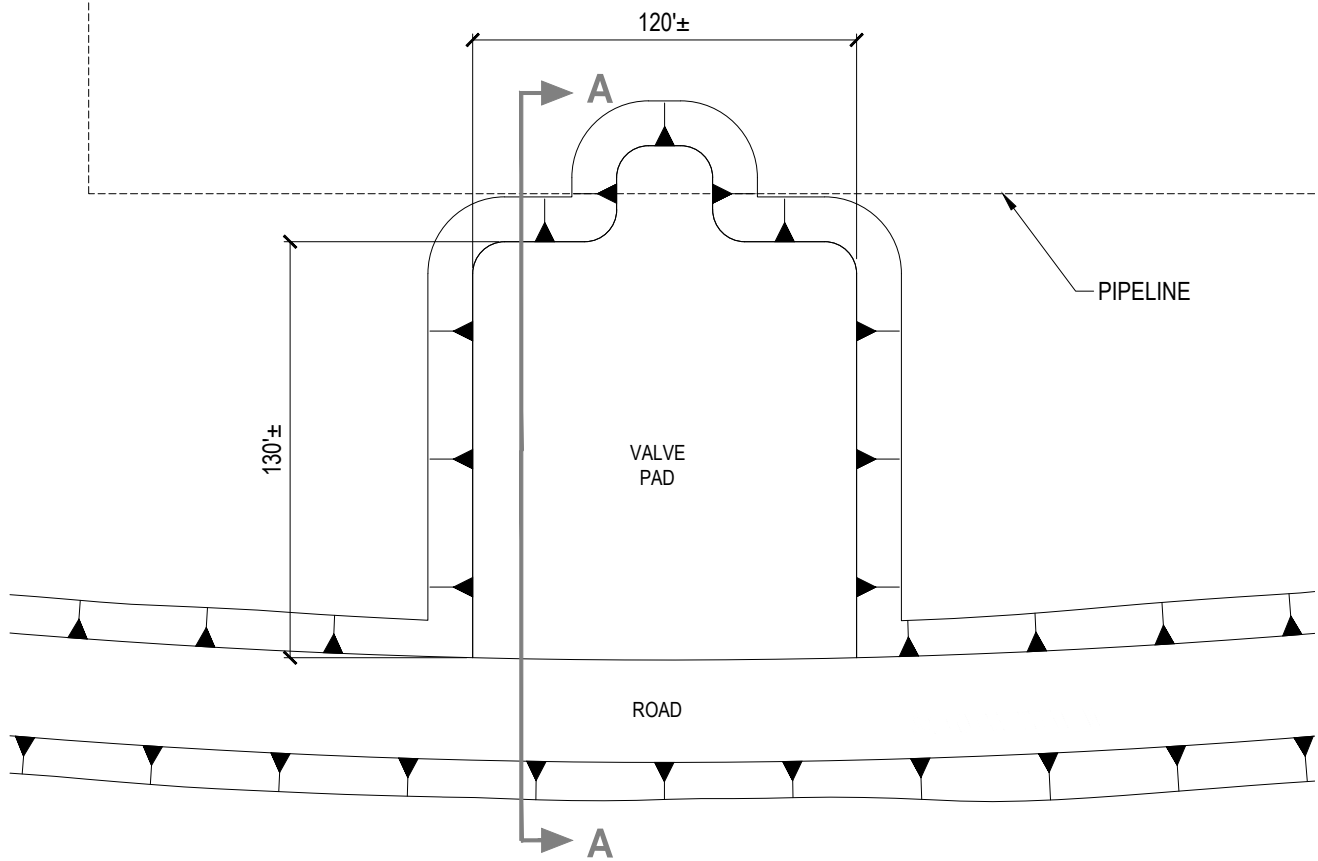
REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **23** of **47** 5/19/2026



NOTE:
GRAVEL EMBANKMENT WIDTH WILL VARY BASED
UPON LOCAL TOPOGRAPHY.

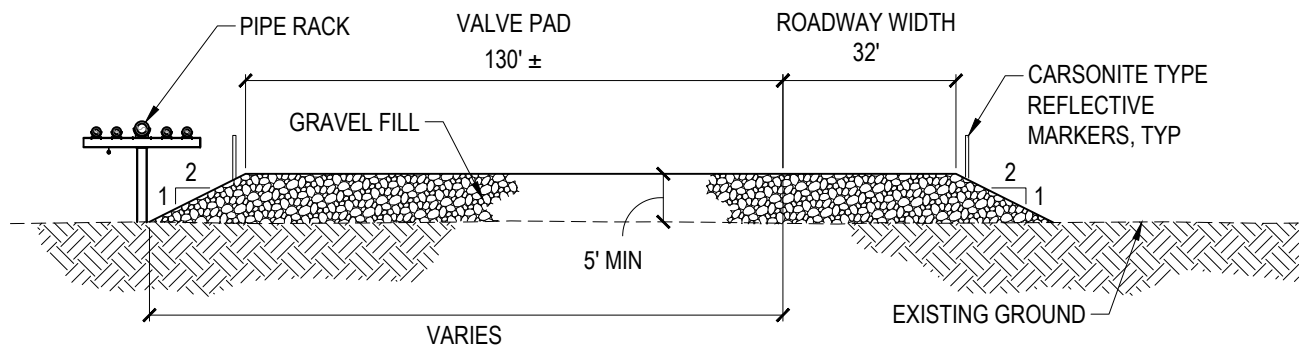
TYPICAL SUBSISTENCE ACCESS RAMP

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **24** of **47** 5/19/2026



VALVE PAD PLAN

NTS



SECTION A-A

NTS

NOTES:

1. GRAVEL EMBANKMENT WIDTH WILL VARY BASED UPON LOCAL TOPOGRAPHY.
2. 5' MIN THICKNESS FOR VALVE PADS TO MATCH ADJACENT ROAD THICKNESS.

TYPICAL VALVE PAD

REFERENCE: POA-XXXX-XXXXX

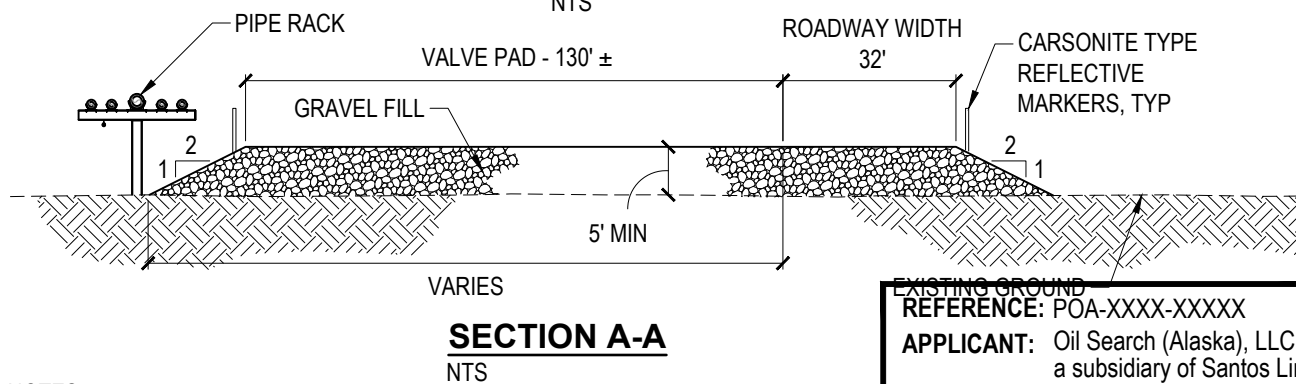
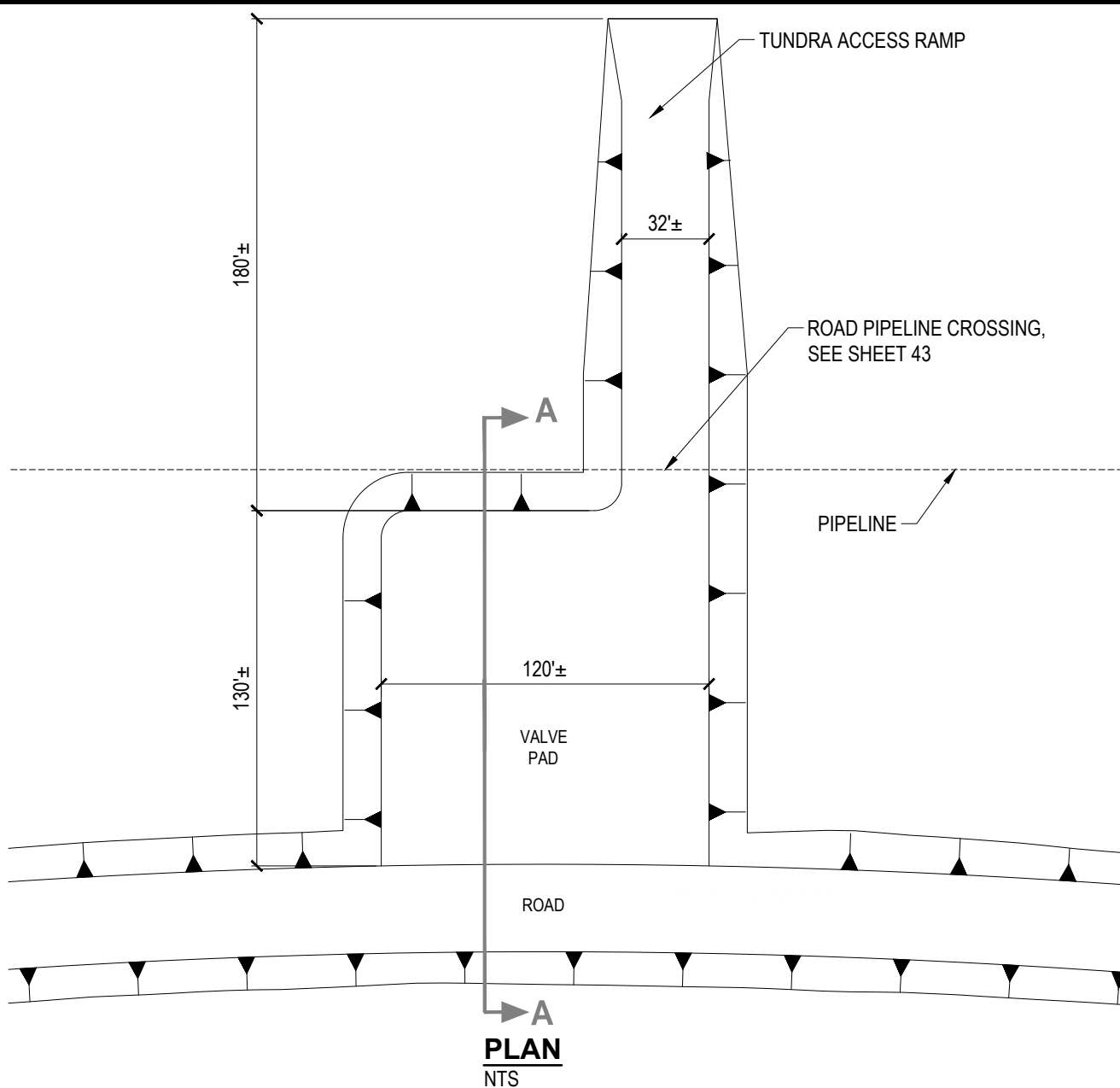
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **25** of **47** 5/19/2026



NOTES:

1. GRAVEL EMBANKMENT WIDTH WILL VARY BASED UPON LOCAL TOPOGRAPHY.
2. 5' MIN THICKNESS FOR VALVE PADS TO MATCH ADJACENT ROAD THICKNESS.

TYPICAL VALVE PAD WITH TUNDRA ACCESS RAMP

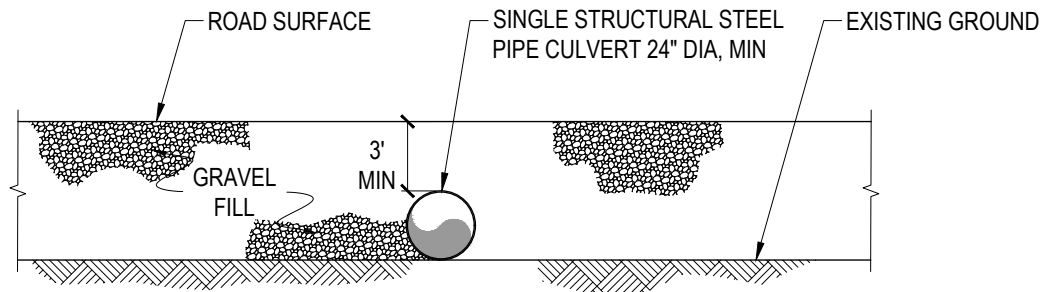
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

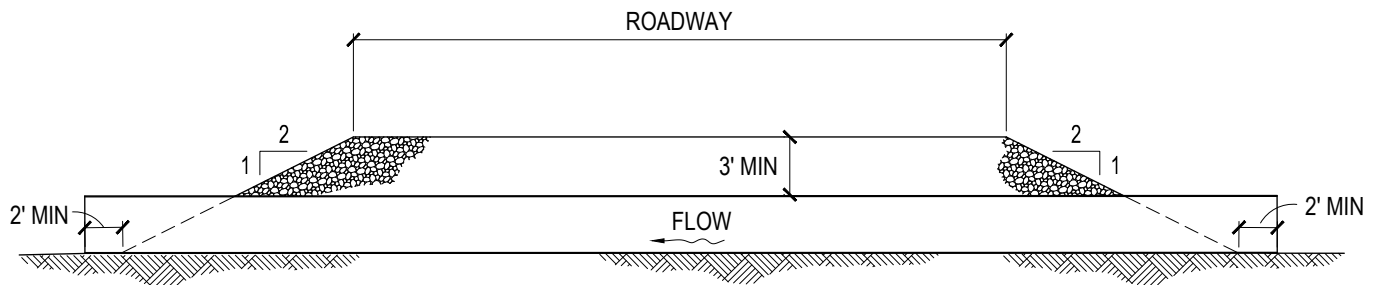
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **26** of **47** 5/19/2026



CROSS DRAINAGE CULVERT ELEVATION
NTS

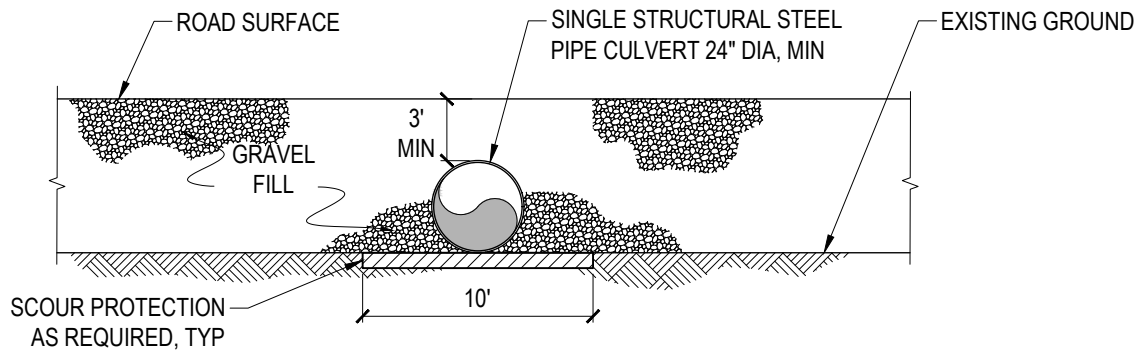


CROSS DRAINAGE CULVERT SECTION
NTS

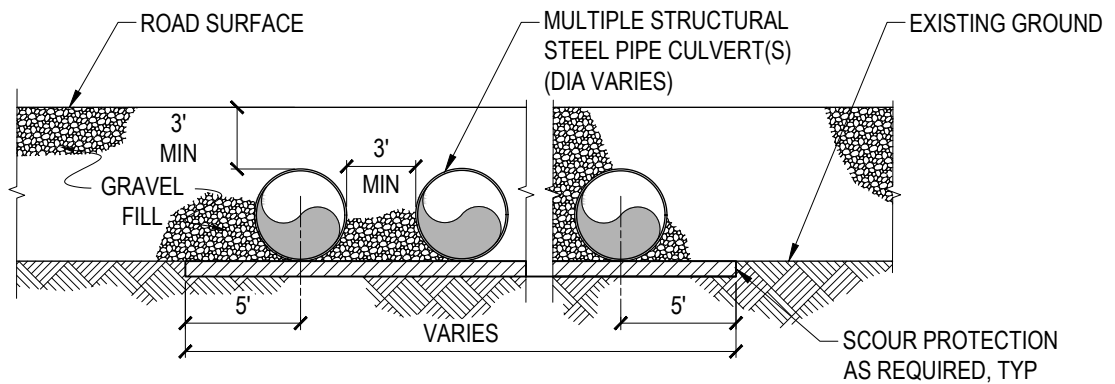
NOTE:
PLACEMENT OF CULVERTS WILL BE DETERMINED BASED UPON LOCAL DRAINAGE PATTERNS AND FIELD OBSERVATIONS.

CROSS DRAINAGE CULVERT CROSS SECTIONS

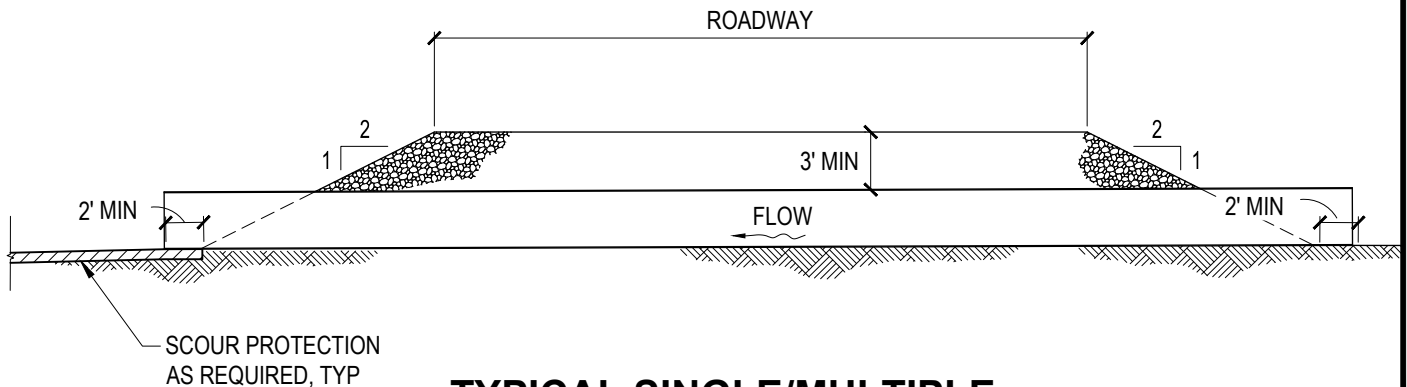
REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
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TYPICAL SINGLE CULVERT ELEVATION
NTS



TYPICAL CULVERT BATTERY ELEVATION
NTS



TYPICAL SINGLE/MULTIPLE CULVERT SECTION
NTS

NOTES:

1. PLACEMENT OF CULVERTS WILL BE DETERMINED BASED UPON LOCAL DRAINAGE PATTERNS, HYDROLOGY STUDIES, AND HYDRAULIC EVALUATION.
2. FISH PASSAGE REQUIREMENTS WILL BE DETERMINED BASED ON FISH STUDIES AND COORDINATION WITH THE ALASKA DEPARTMENT OF FISH AND GAME. SEE FISH PASSAGE CULVERT DETAILS.

TYPICAL SINGLE AND MULTIPLE CULVERT BATTERY CROSS SECTIONS

REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

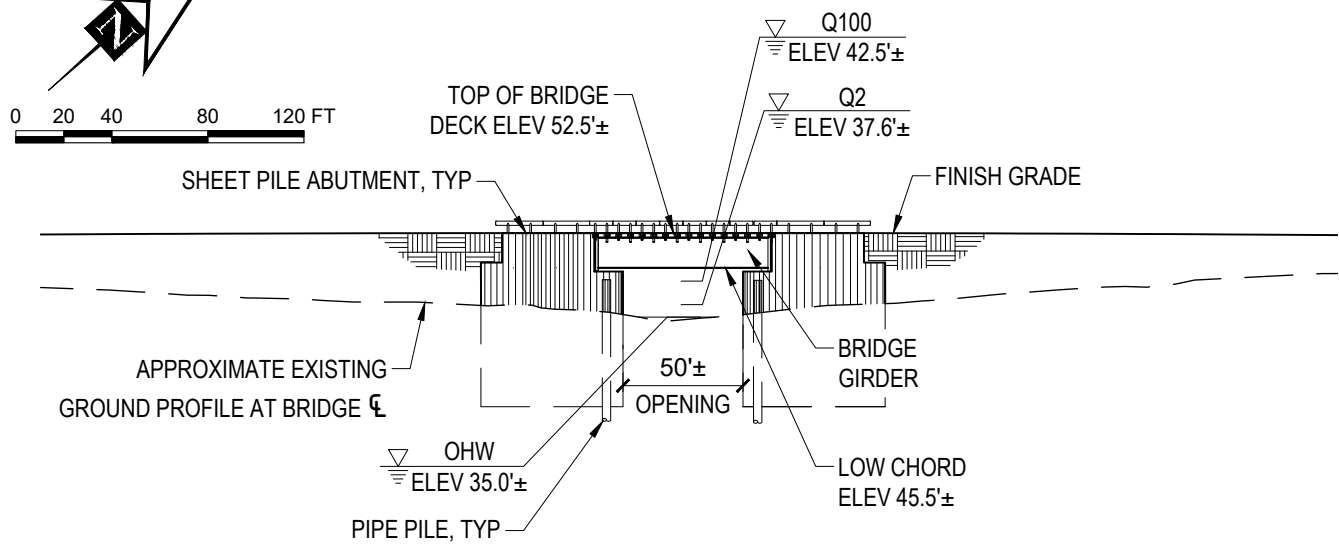
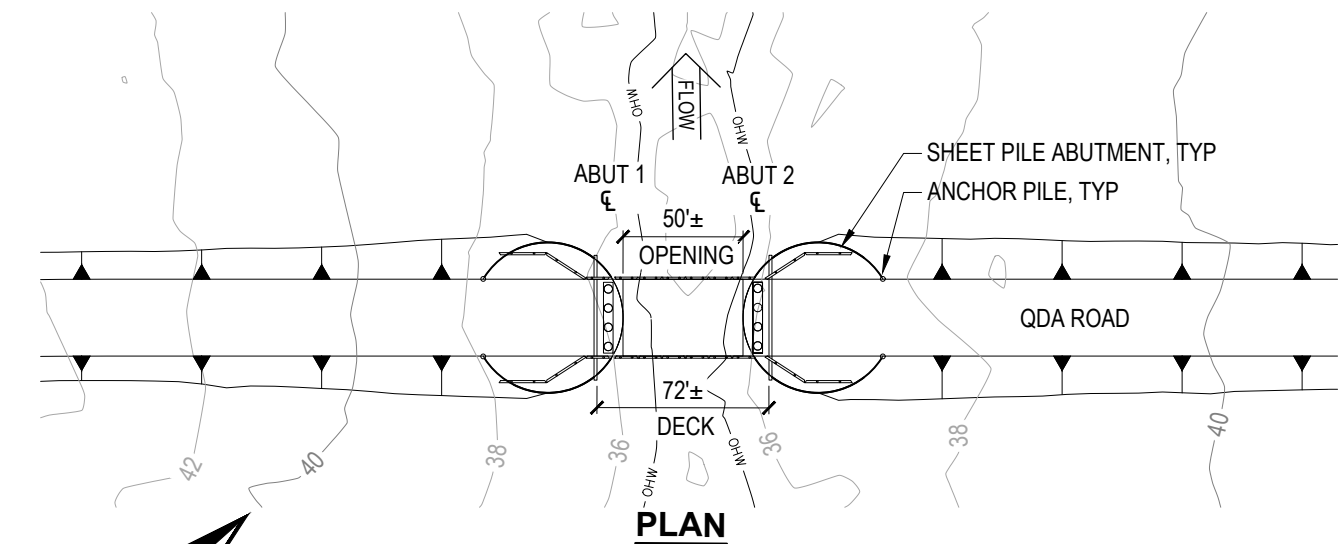
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline Construction

AT: North Slope Borough, AK

SHEET: **28** of **47** 5/19/2026



SHEET: 29 of 47 5/19/2026



NOTES:

1. VERTICAL SCALE SHOWN 2X HORIZONTAL SCALE.
2. VERTICAL DATUM IS NAVD 88.
3. TROUBLE CREEK BRIDGE LOW CHORD WILL BE A MINIMUM OF 3 FEET ABOVE THE HIGHEST PREDICTED ELEVATION OF THE 100-YEAR FLOOD (Q100) OR THE MAXIMUM OBSERVED STAGE ELEVATION PLUS 3 FEET, WHICHEVER IS GREATER.
4. HYDRAULIC DATA IS NOT YET AVAILABLE AT THIS CROSSING LOCATION. FLOOD ELEVATIONS LISTED ARE CONSERVATIVE ESTIMATES BASED ON 2003 USGS REGRESSION EQUATIONS FOR REGION 7.
5. PRELIMINARY HYDRAULIC DATA AND ASSOCIATED BRIDGE DESIGN WILL BE UPDATED FOLLOWING A HYDRAULIC FIELD INVESTIGATION AND SUBSEQUENT ANALYSIS.

REFERENCE: POA-XXXX-XXXXX

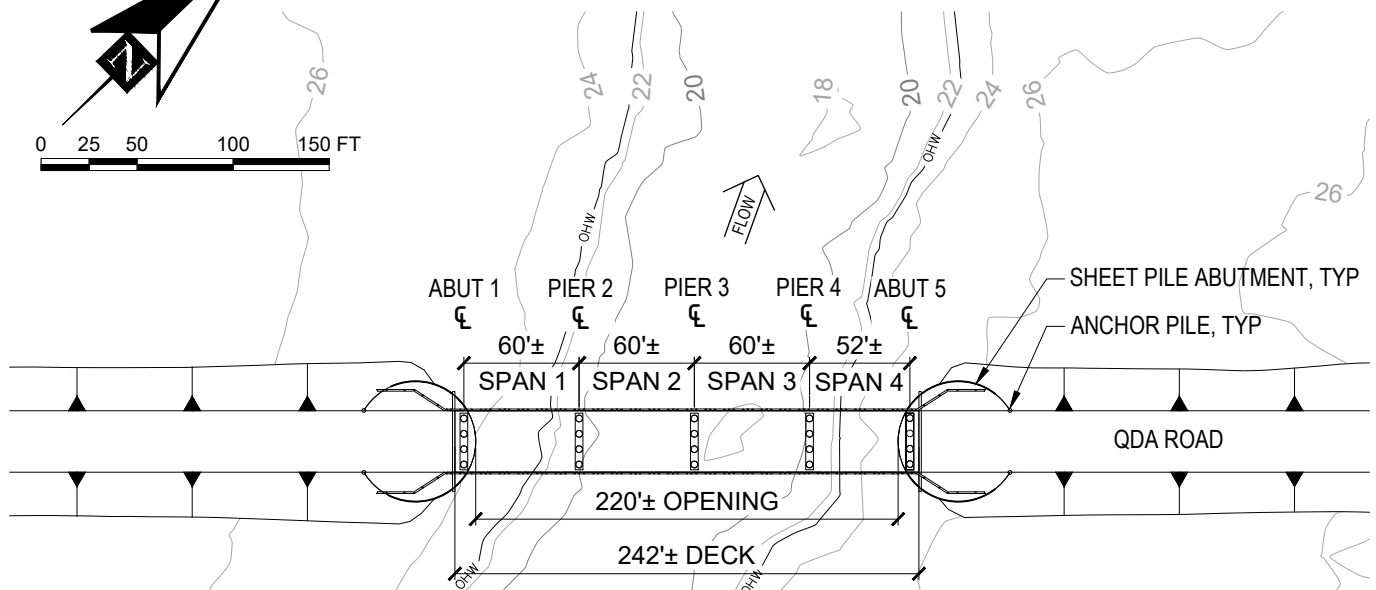
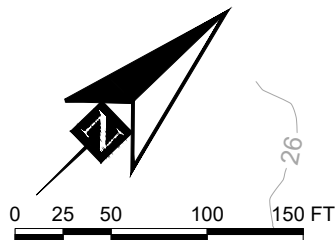
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

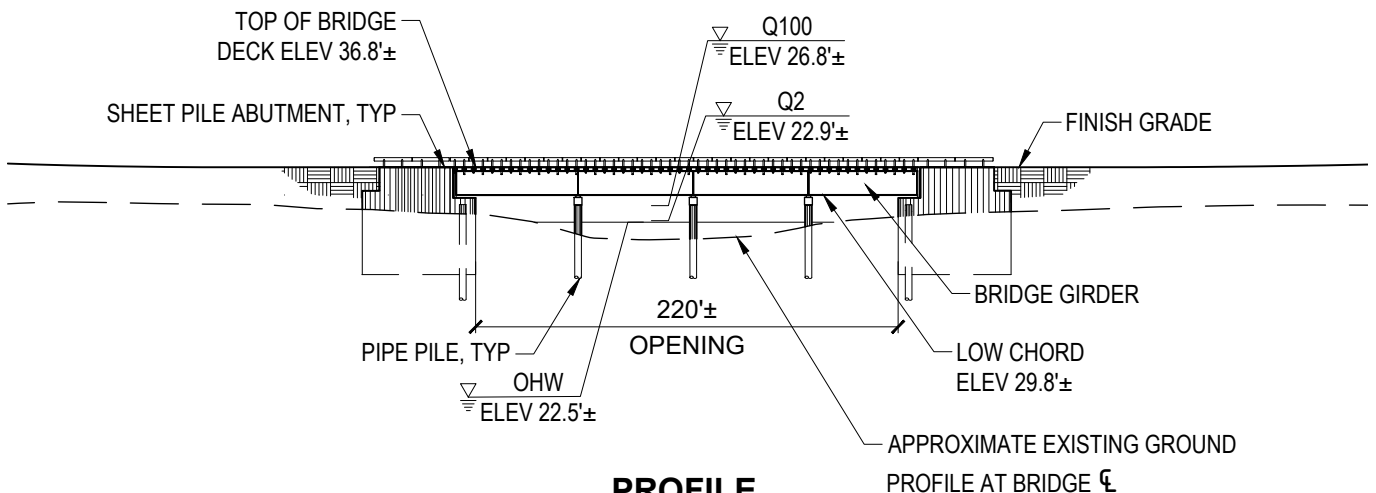
AT: North Slope Borough, AK

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TROUBLE CREEK BRIDGE PLAN AND PROFILE



PLAN



PROFILE

2V:1H

NOTES:

1. VERTICAL SCALE SHOWN 2X HORIZONTAL SCALE.
2. VERTICAL DATUM IS NAVD 88.
3. MILUVEACH BRIDGE LOW CHORD WILL BE A MINIMUM OF 3 FEET ABOVE THE HIGHEST PREDICTED ELEVATION OF THE 100-YEAR FLOOD (Q100) OR THE MAXIMUM OBSERVED STAGE ELEVATION PLUS 3 FEET, WHICHEVER IS GREATER.
4. HYDRAULIC DATA IS NOT YET AVAILABLE AT THIS CROSSING LOCATION. FLOOD ELEVATIONS LISTED ARE CONSERVATIVE ESTIMATES BASED ON HYDRAULIC DATA OF PIKKA'S MILUVEACH BRIDGE CROSSING, APPROXIMATELY 6.5 RIVER-MILES UPSTREAM.
5. PRELIMINARY HYDRAULIC DATA AND ASSOCIATED BRIDGE DESIGN WILL BE UPDATED FOLLOWING A HYDRAULIC FIELD INVESTIGATION AND SUBSEQUENT ANALYSIS.

REFERENCE: POA-XXXX-XXXXX

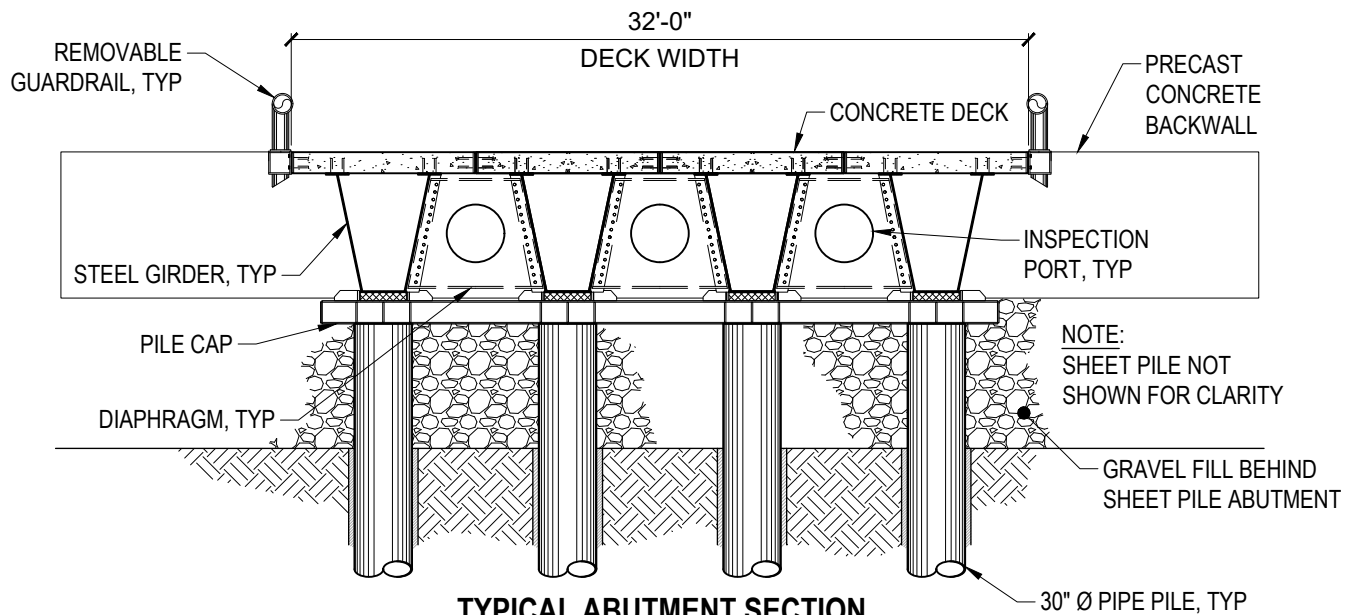
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

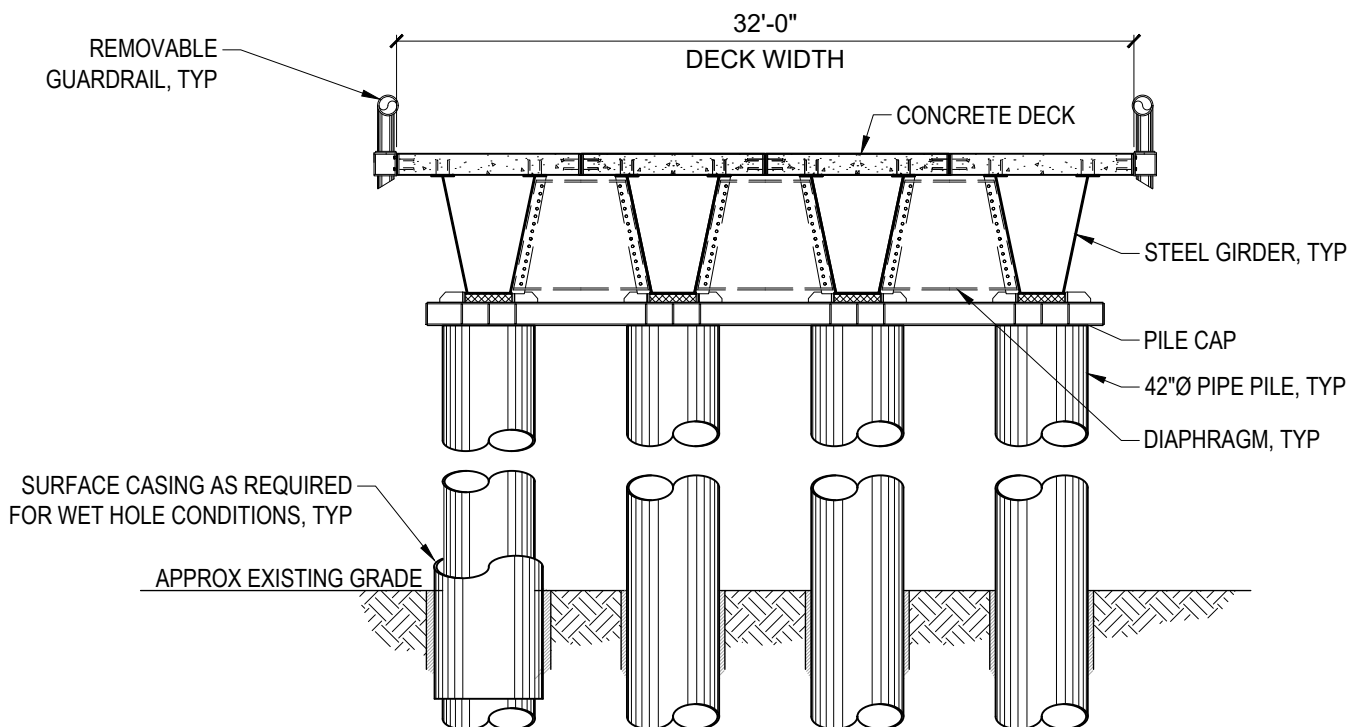
AT: North Slope Borough, AK

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MILUVEACH RIVER BRIDGE PLAN AND PROFILE



TYPICAL ABUTMENT SECTION

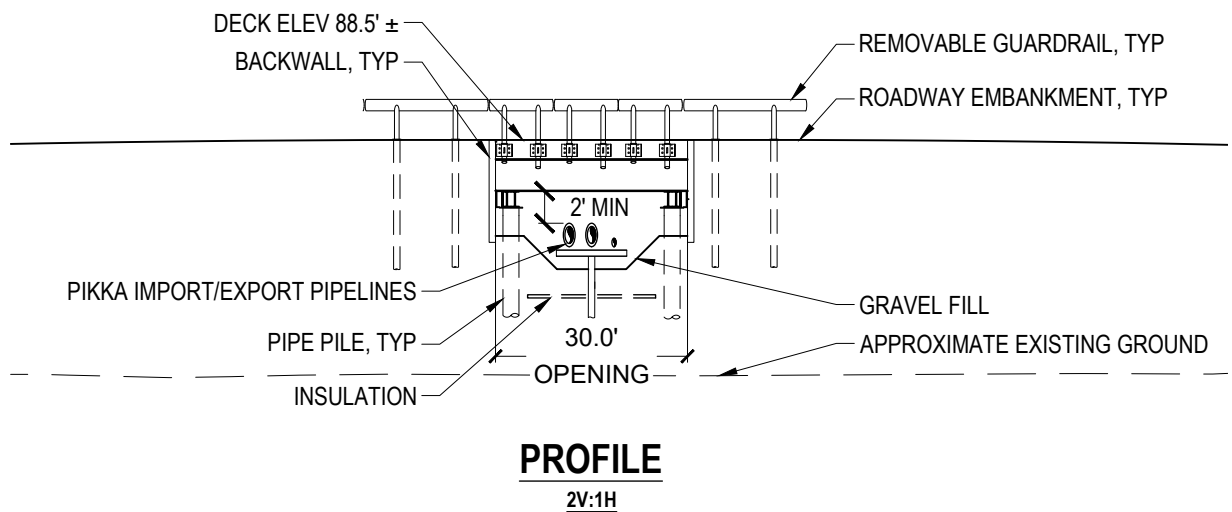
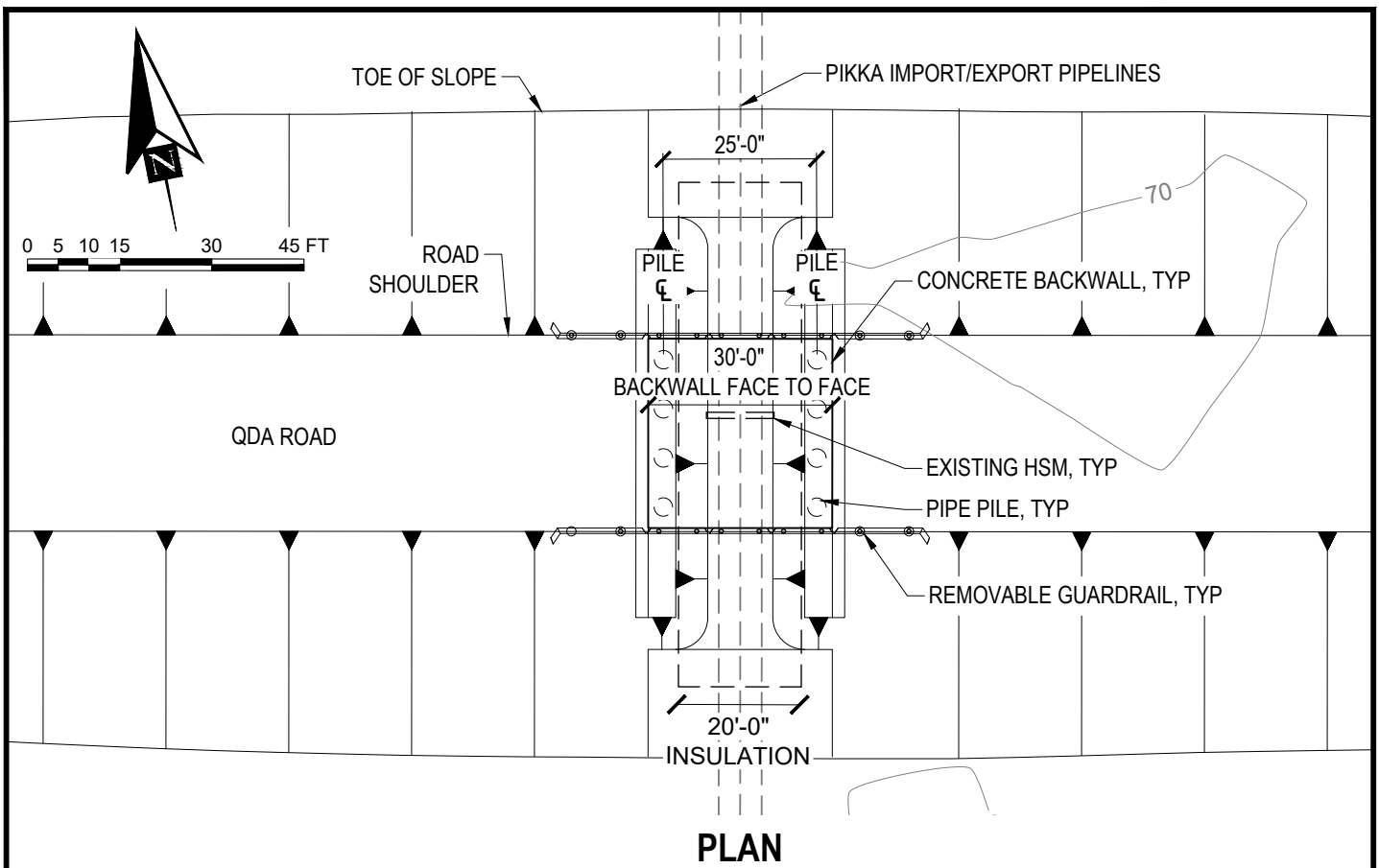


TYPICAL PIER SECTION

NOTE:
PILE EMBEDMENT DEPTHS TO BE DETERMINED DURING DETAILED DESIGN.

TYPICAL BRIDGE SECTIONS

REFERENCE: POA-XXXX-XXXXX
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Quokka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET: **32** of **47** 5/19/2026



NOTES:

1. VERTICAL SCALE SHOWN 2X HORIZONTAL SCALE.
2. VERTICAL DATUM IS NAVD 88.

EXISTING PIPELINE OVERPASS PLAN AND PROFILE

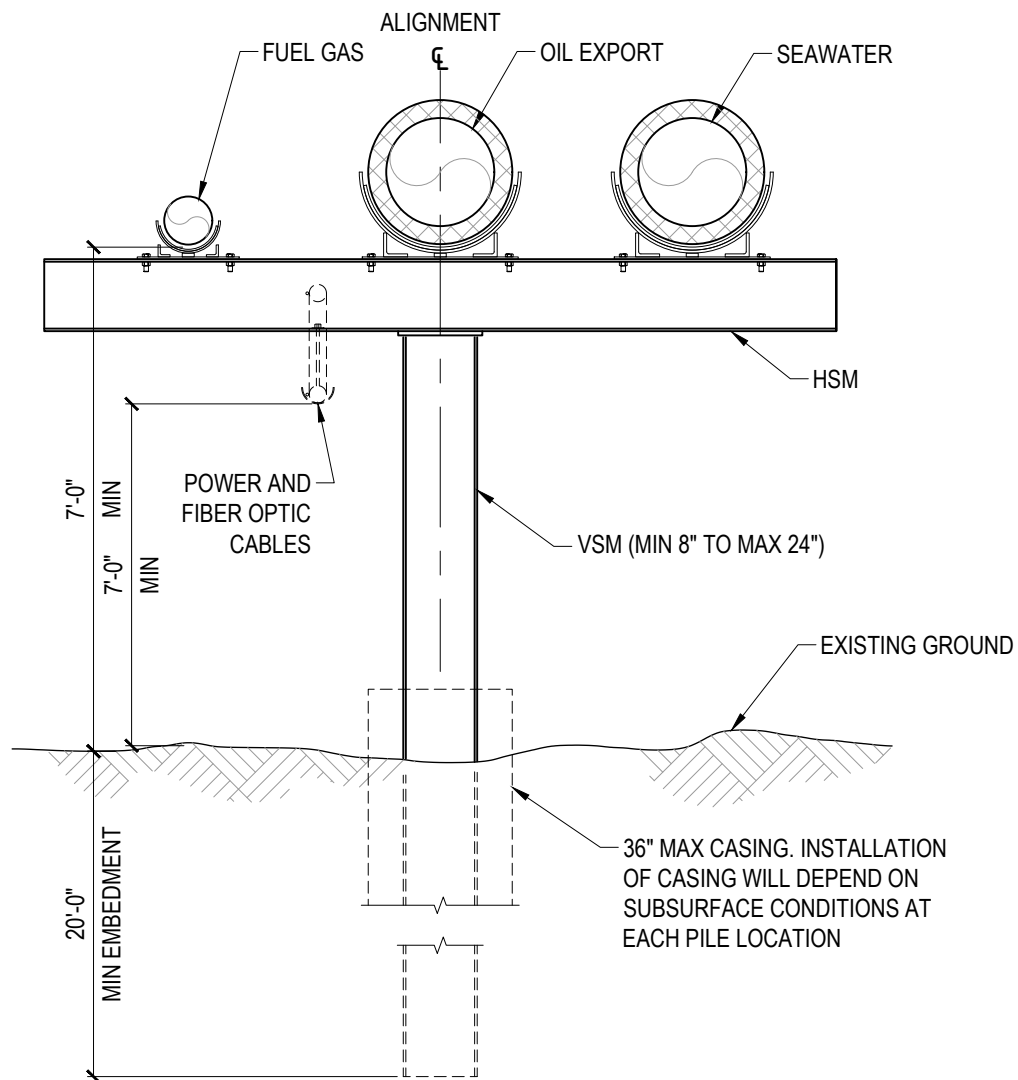
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

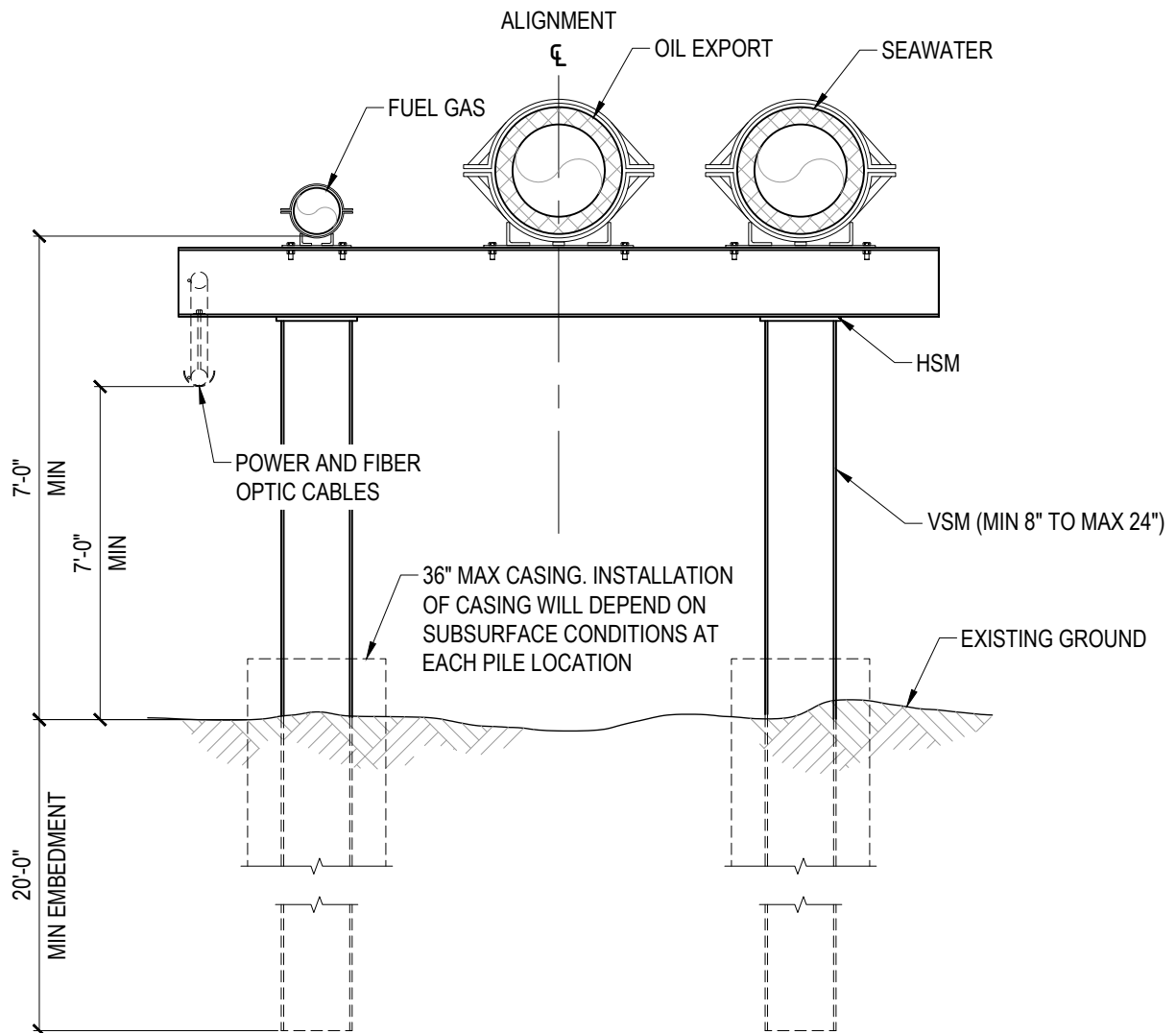
AT: North Slope Borough, AK

SHEET: **33** of **47** 5/19/2026



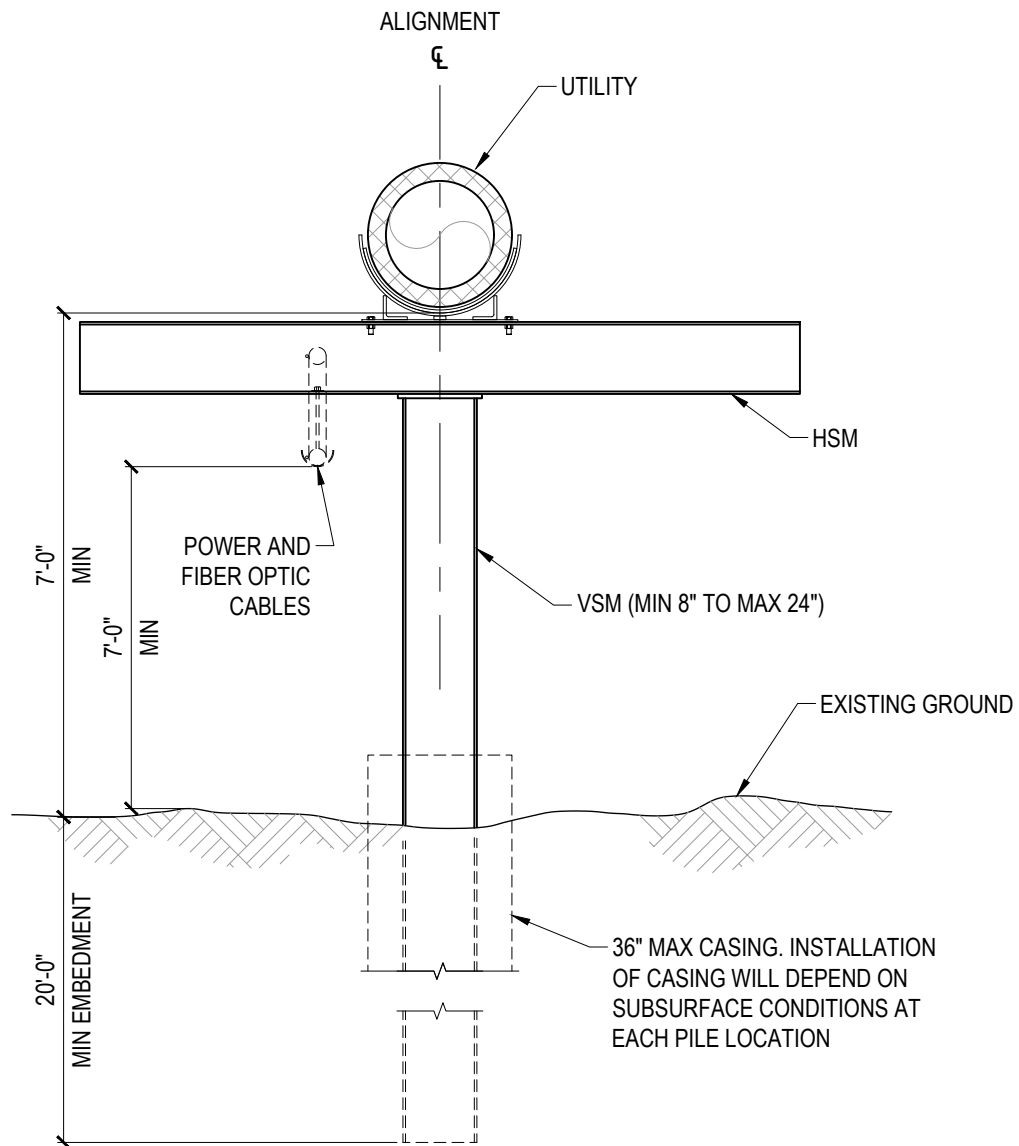
QPF PIPELINE GUIDED PIPE SUPPORT
(QPF TO QTP)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
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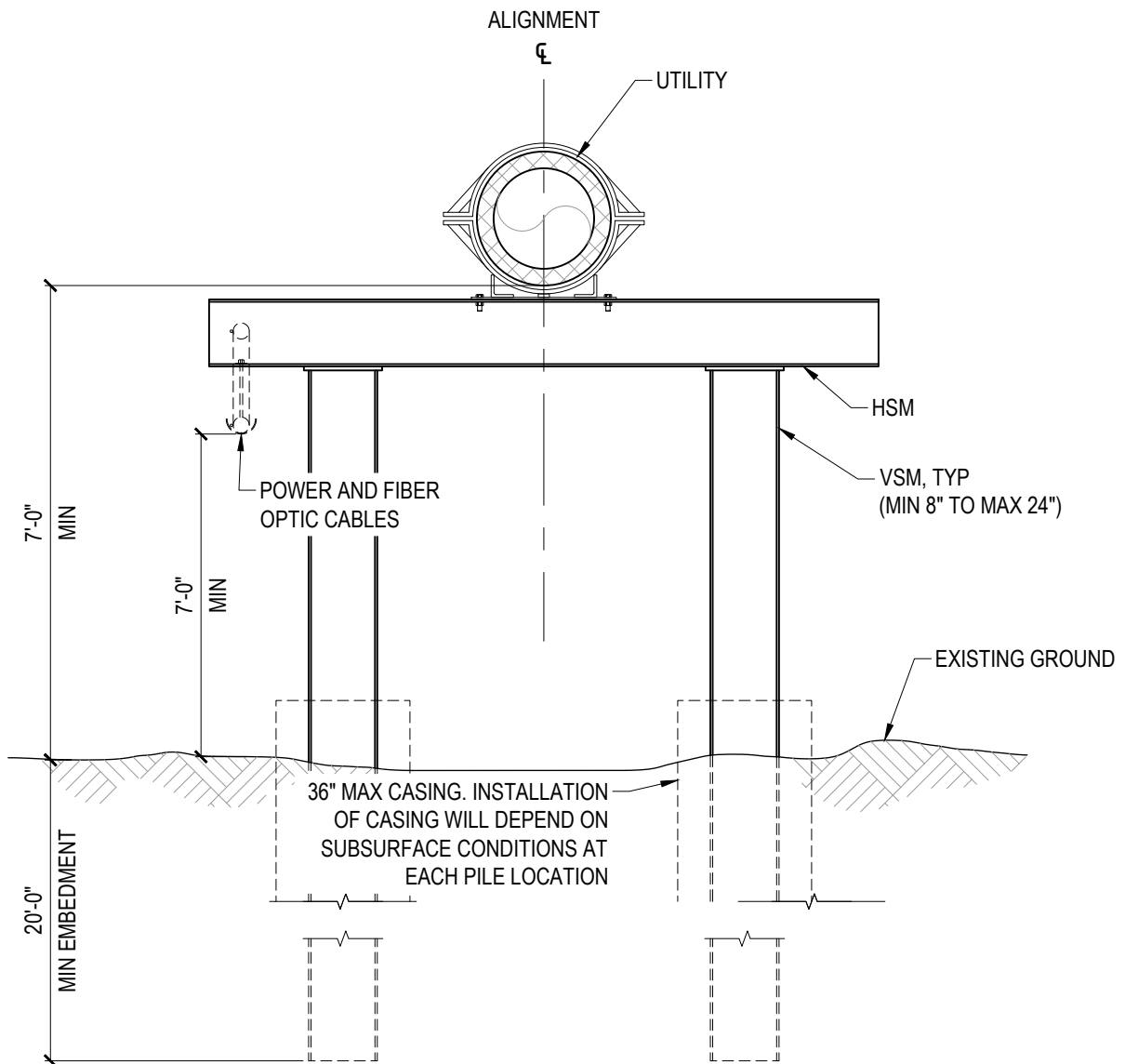
QPF PIPELINE ANCHOR PIPE SUPPORT
(QPF TO QTP)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
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UTILITY PIPELINE GUIDED PIPE SUPPORT
(QPF TO NPF PAD)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
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UTILITY PIPELINE ANCHOR PIPE SUPPORT

(QPF TO NPF PAD)

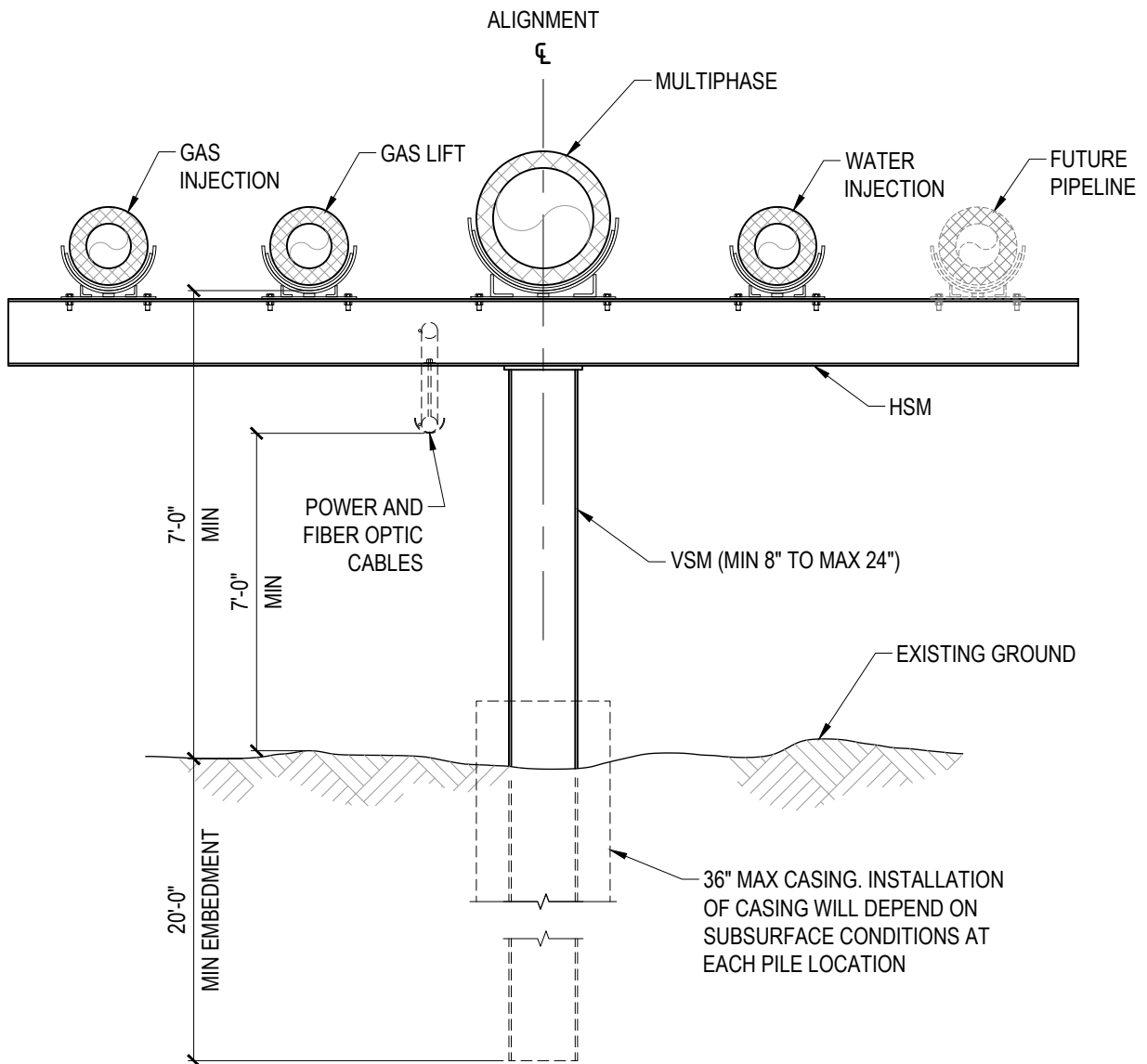
REFERENCE: POA-XXXX-XXXXX

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

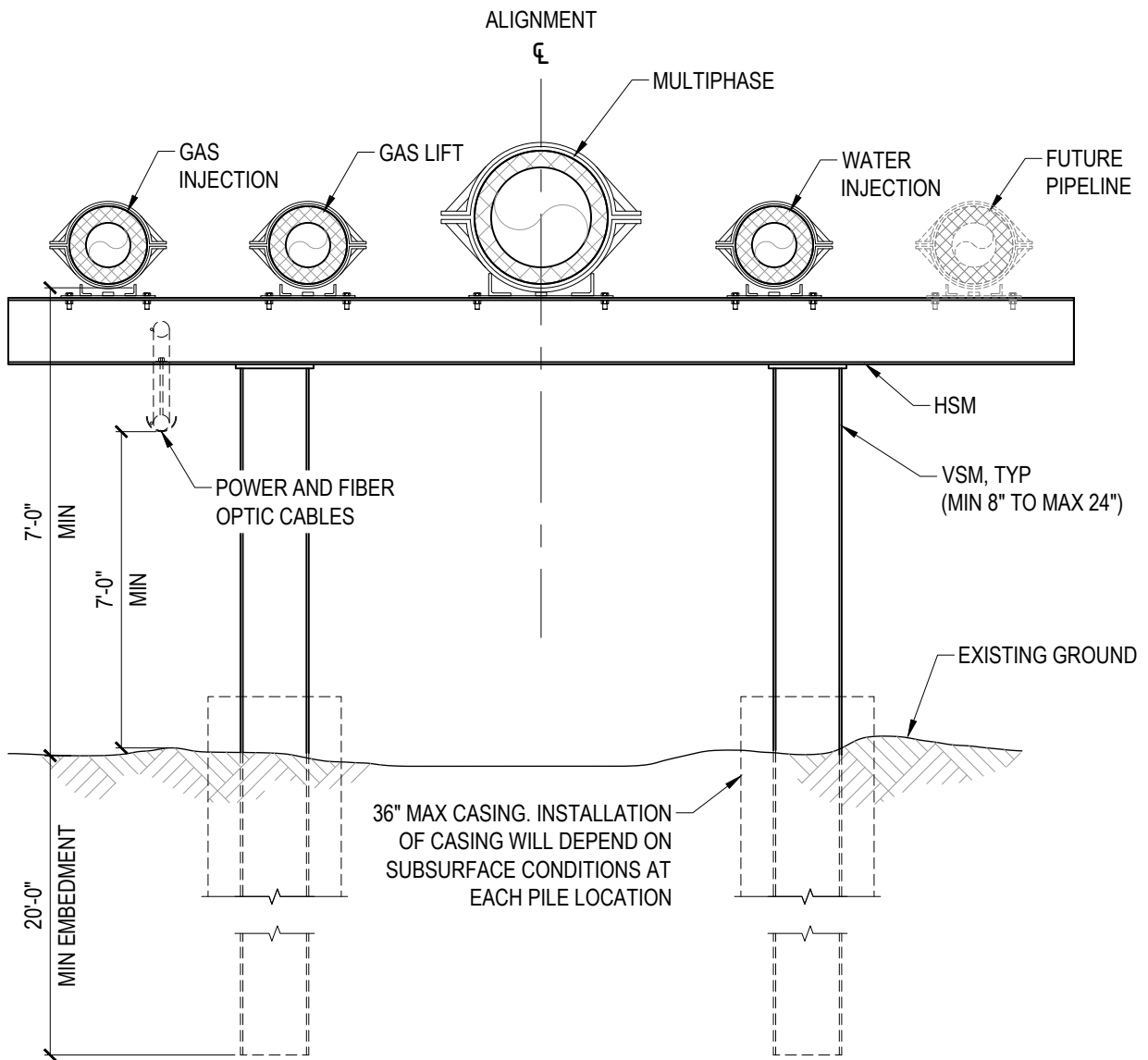
AT: North Slope Borough, AK

SHEET: **37** of **47** 5/19/2026



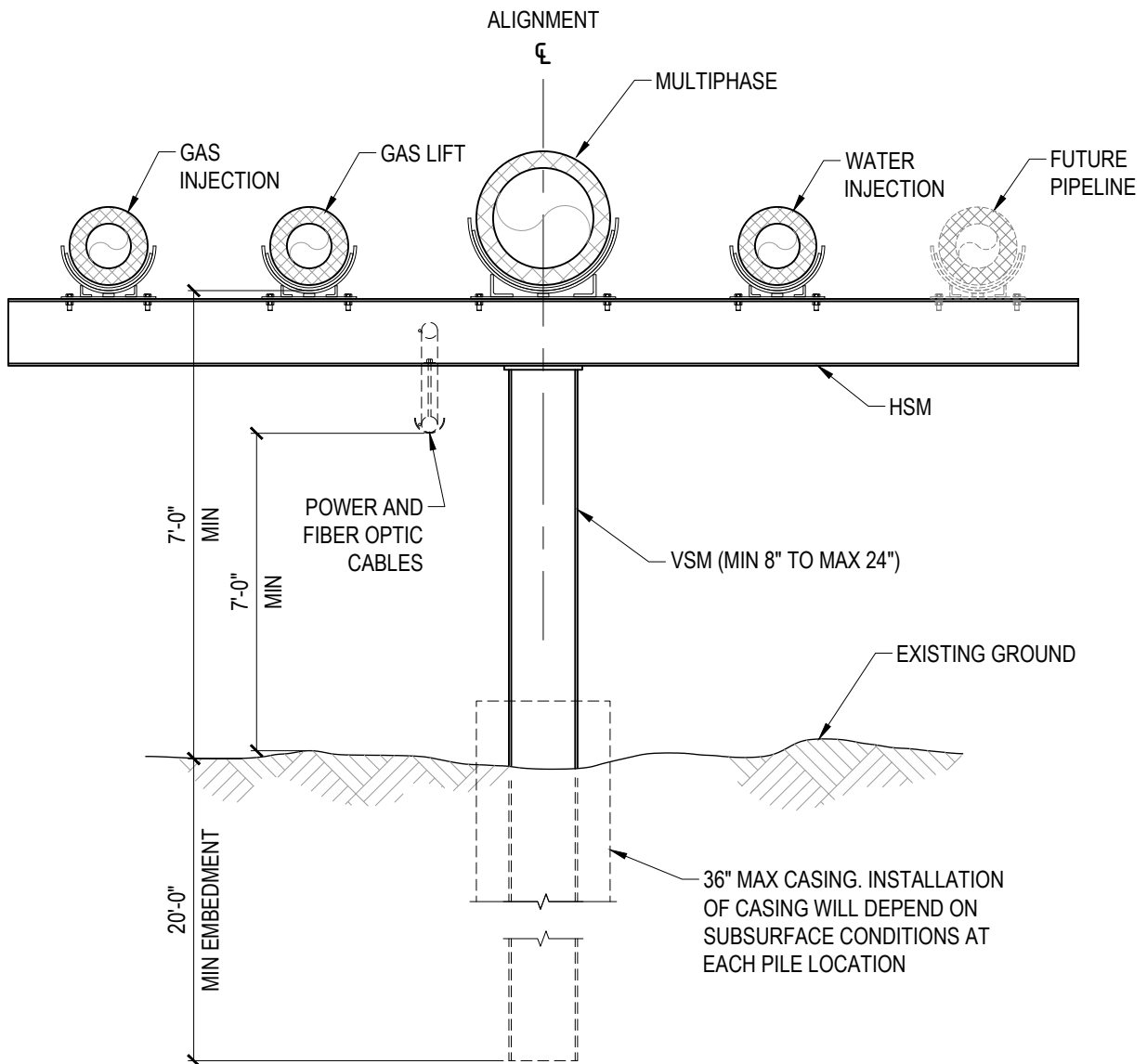
QDA PIPELINE GUIDED PIPE SUPPORT
(QDA PAD TO QPF PAD)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **38** of **47** 5/19/2026



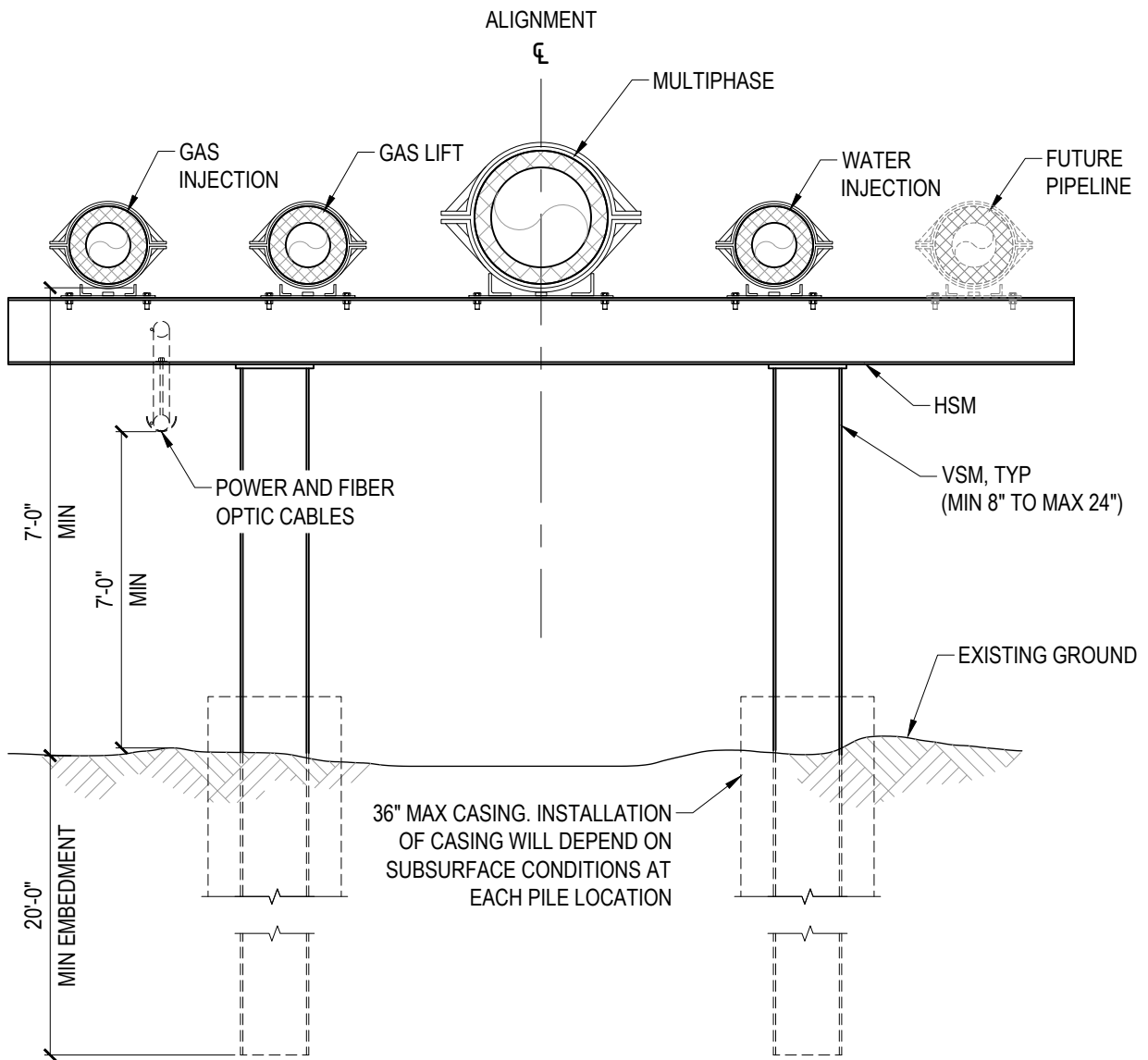
QDA PIPELINE ANCHOR PIPE SUPPORT
(QDA PAD TO QPF PAD)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **39** of **47** 5/19/2026



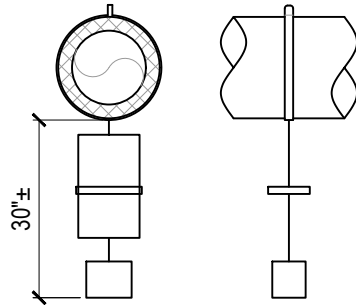
QDB PIPELINE GUIDED PIPE SUPPORT
(QDB PAD TO QPF PAD)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **40** of **47** 5/19/2026



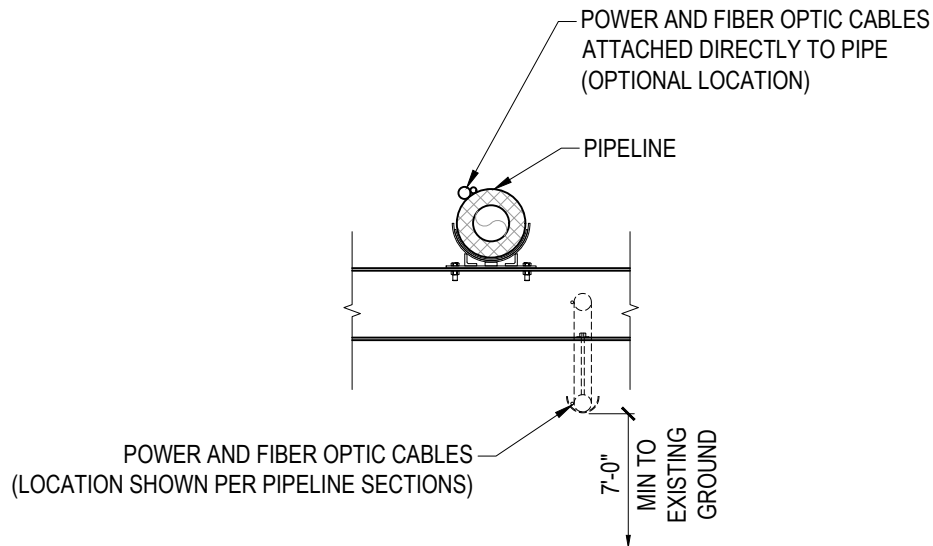
QDB PIPELINE ANCHOR PIPE SUPPORT
(QDB PAD TO QPF PAD)

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **41** of **47** 5/19/2026



NOTE:
PIPELINE VIBRATION DAMPENER MAY BE USED ON ALL PIPELINES.

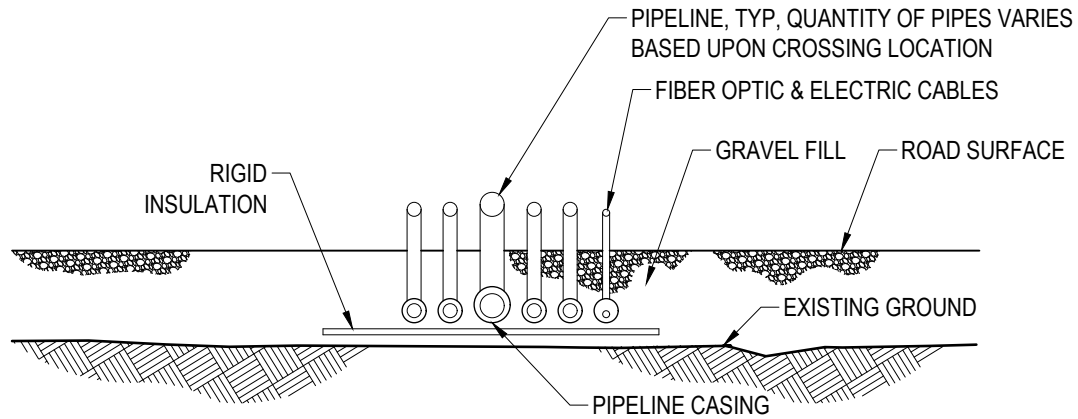
PIPELINE VIBRATION DAMPENER TYPICAL DETAIL



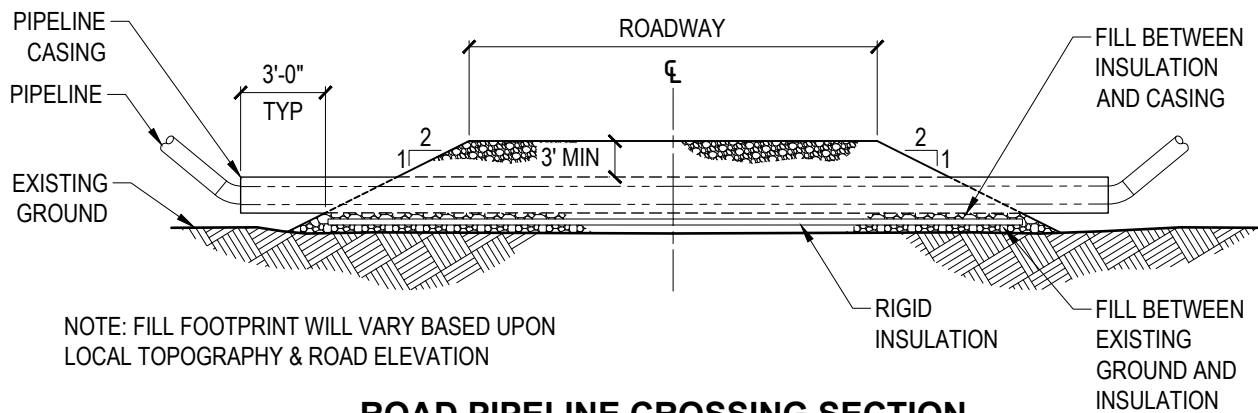
OPTIONAL POWER AND FIBER OPTIC CABLE ATTACHMENT

PIPELINE DETAILS

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **42** of **47** 5/19/2026

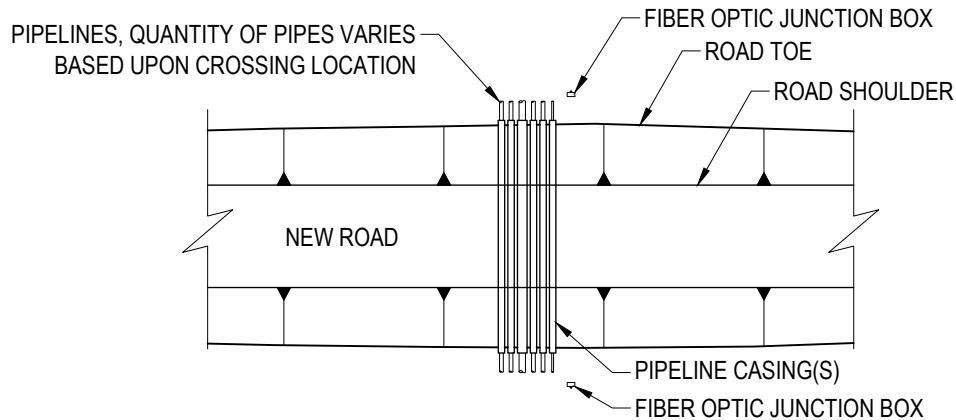


ROAD PIPELINE CROSSING PROFILE
NTS



NOTE: FILL FOOTPRINT WILL VARY BASED UPON
LOCAL TOPOGRAPHY & ROAD ELEVATION

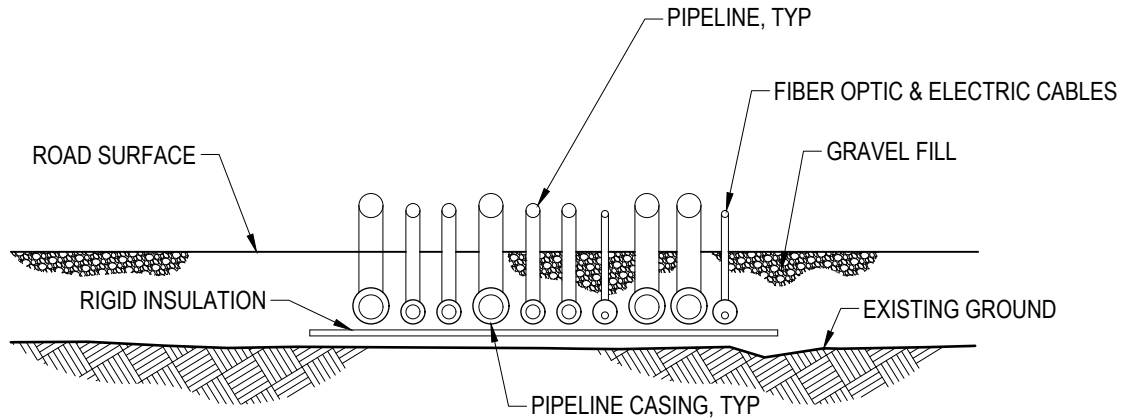
ROAD PIPELINE CROSSING SECTION
NTS



ROAD PIPELINE CROSSING PLAN
NTS

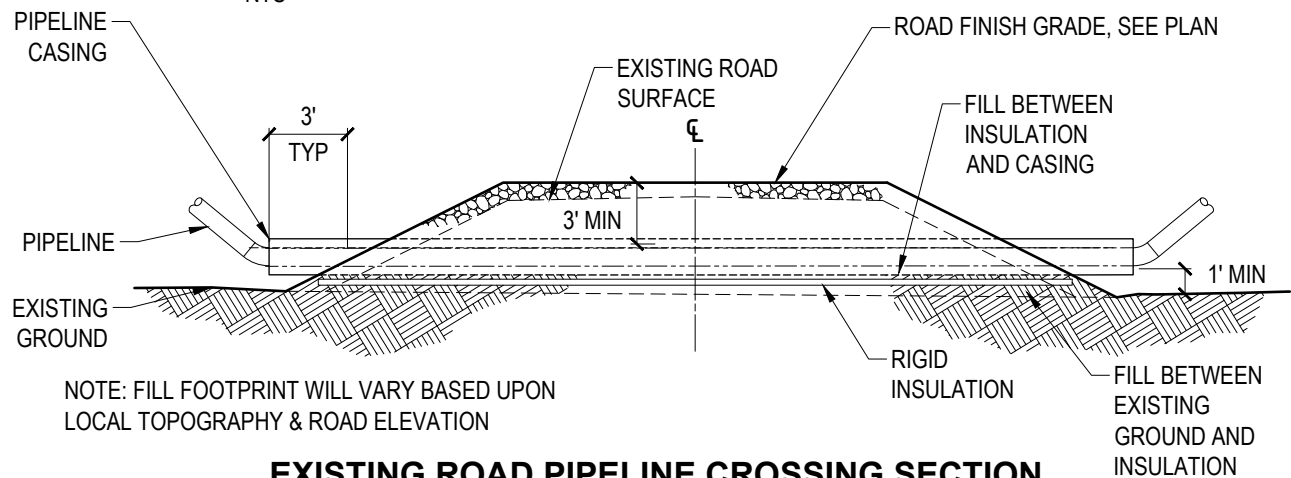
TYPICAL ROAD PIPELINE CROSSING

REFERENCE: POA-XXXX-XXXXX
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Quokka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET: **43** of **47** 5/19/2026



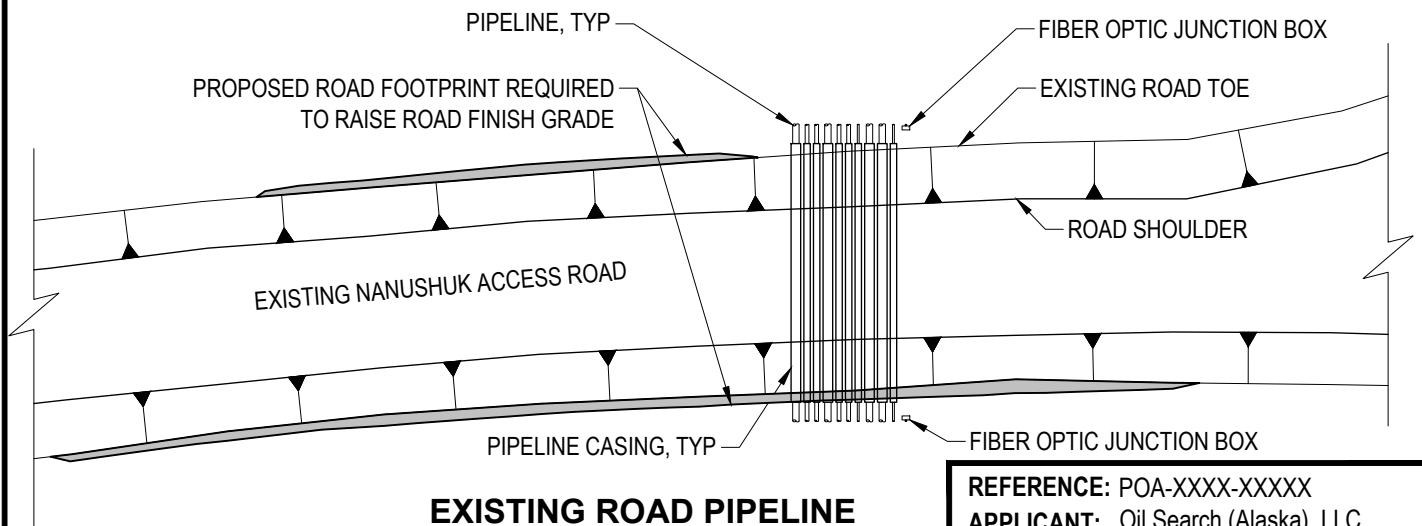
EXISTING ROAD PIPELINE CROSSING PROFILE

NTS



EXISTING ROAD PIPELINE CROSSING SECTION

NTS



EXISTING ROAD PIPELINE CROSSING PLAN

NTS

EXISTING ROAD PIPELINE CROSSING

REFERENCE: POA-XXXX-XXXXX

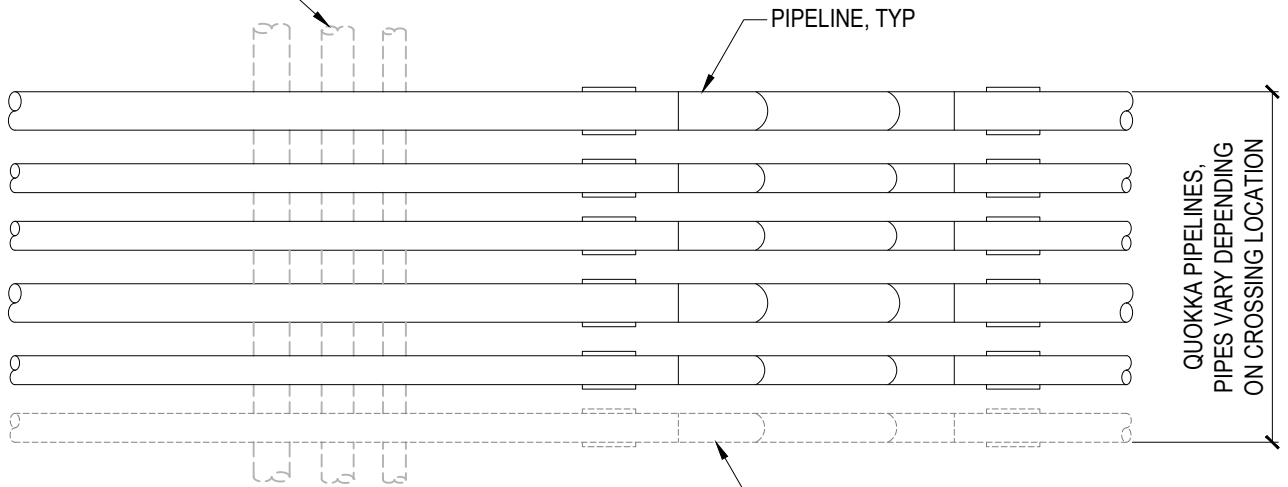
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

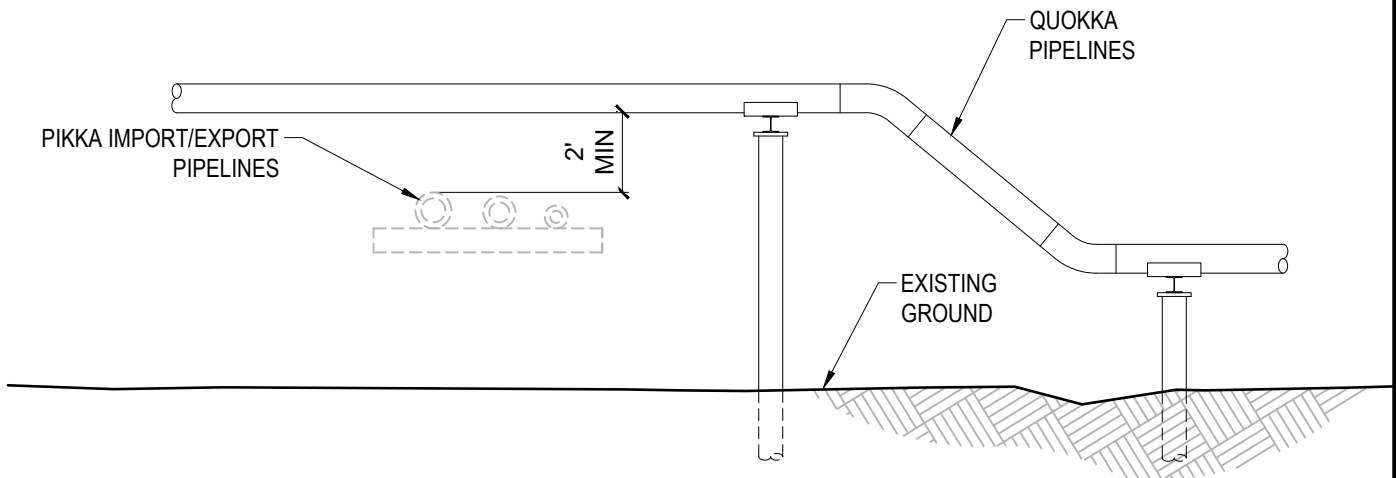
SHEET: **44** of **47** 5/19/2026

PIKKA IMPORT/EXPORT
PIPELINES



PLAN
NTS

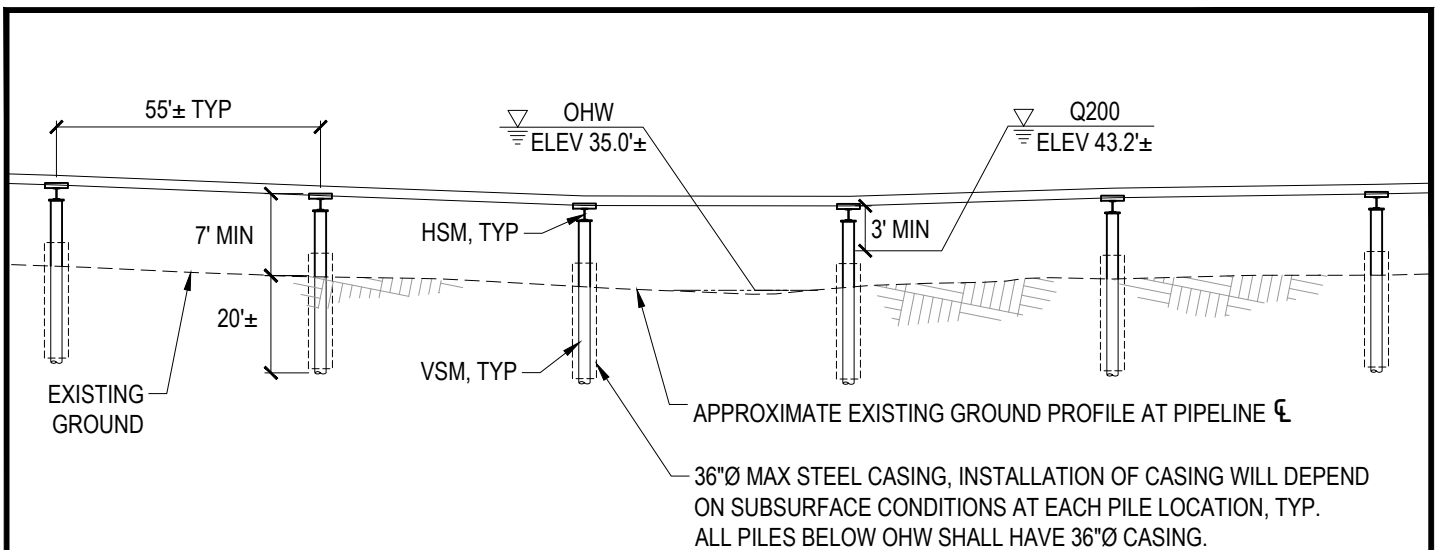
PIKKA IMPORT/EXPORT
PIPELINES



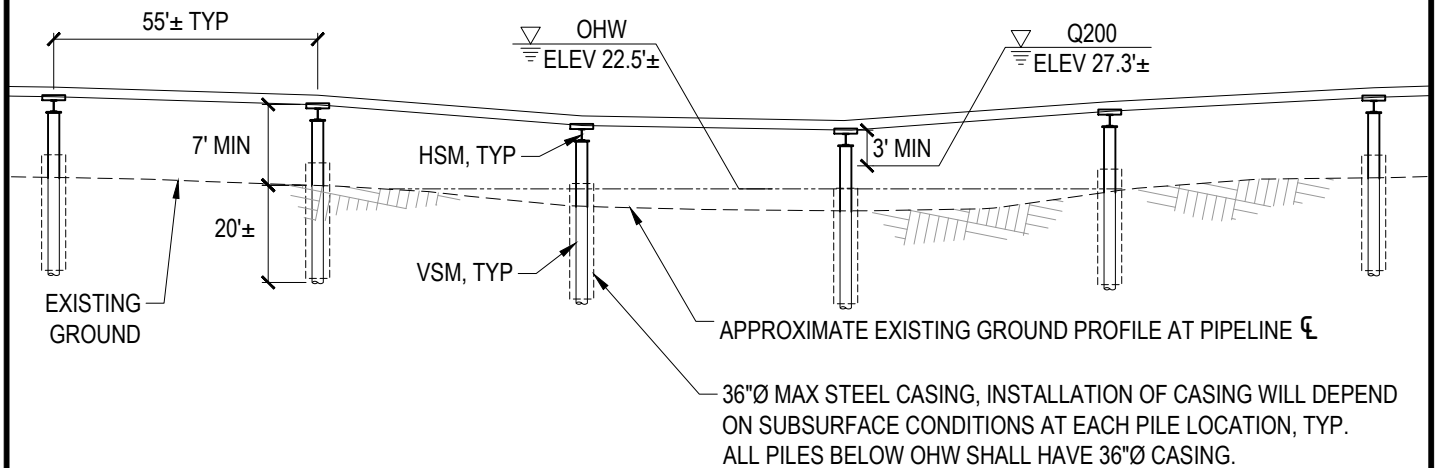
ELEVATION
NTS

PIPELINE CROSSING OVER EXISTING PIPELINES

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **45** of **47** 5/19/2026



TRouble CREEK PIPELINE CROSSING



MILUVEACH RIVER PIPELINE CROSSING

NOTES:

1. PIPELINE CROSSING BOTTOM OF PIPE ELEVATIONS WILL BE A MINIMUM THREE (3) FEET ABOVE THE HIGHEST OF THE PREDICTED ELEVATION FROM THE 200-YEAR FLOOD OR STORM SURGE, OR THE HIGHEST RECORDED HISTORICAL WATER SURFACE ELEVATION.
2. VERTICAL DATUM IS NAVD88.
3. PILE EMBEDMENT DEPTHS, DIAMETERS, AND SPACING MAY VARY DEPENDING UPON SITE CONDITIONS AND FINAL DESIGN CONSIDERATIONS.
4. HYDRAULIC DATA IS NOT YET AVAILABLE AT THESE CROSSING LOCATIONS. MILUVEACH RIVER FLOOD ELEVATIONS LISTED ARE CONSERVATIVE ESTIMATES BASED ON HYDRAULIC DATA OF PIKKA'S MILUVEACH BRIDGE CROSSING, APPROXIMATELY 6.5 RIVER-MILES UPSTREAM. TROUBLE CREEK FLOOD ELEVATIONS LISTED ARE CONSERVATIVE ESTIMATES BASED ON 2003 USGS REGRESSION EQUATIONS FOR REGION 7.
5. PRELIMINARY HYDRAULIC DATA AND ASSOCIATED PIPELINE CROSSING DESIGN WILL BE UPDATED FOLLOWING A HYDRAULIC FIELD INVESTIGATION AND SUBSEQUENT ANALYSIS.

REFERENCE: POA-XXXX-XXXXX

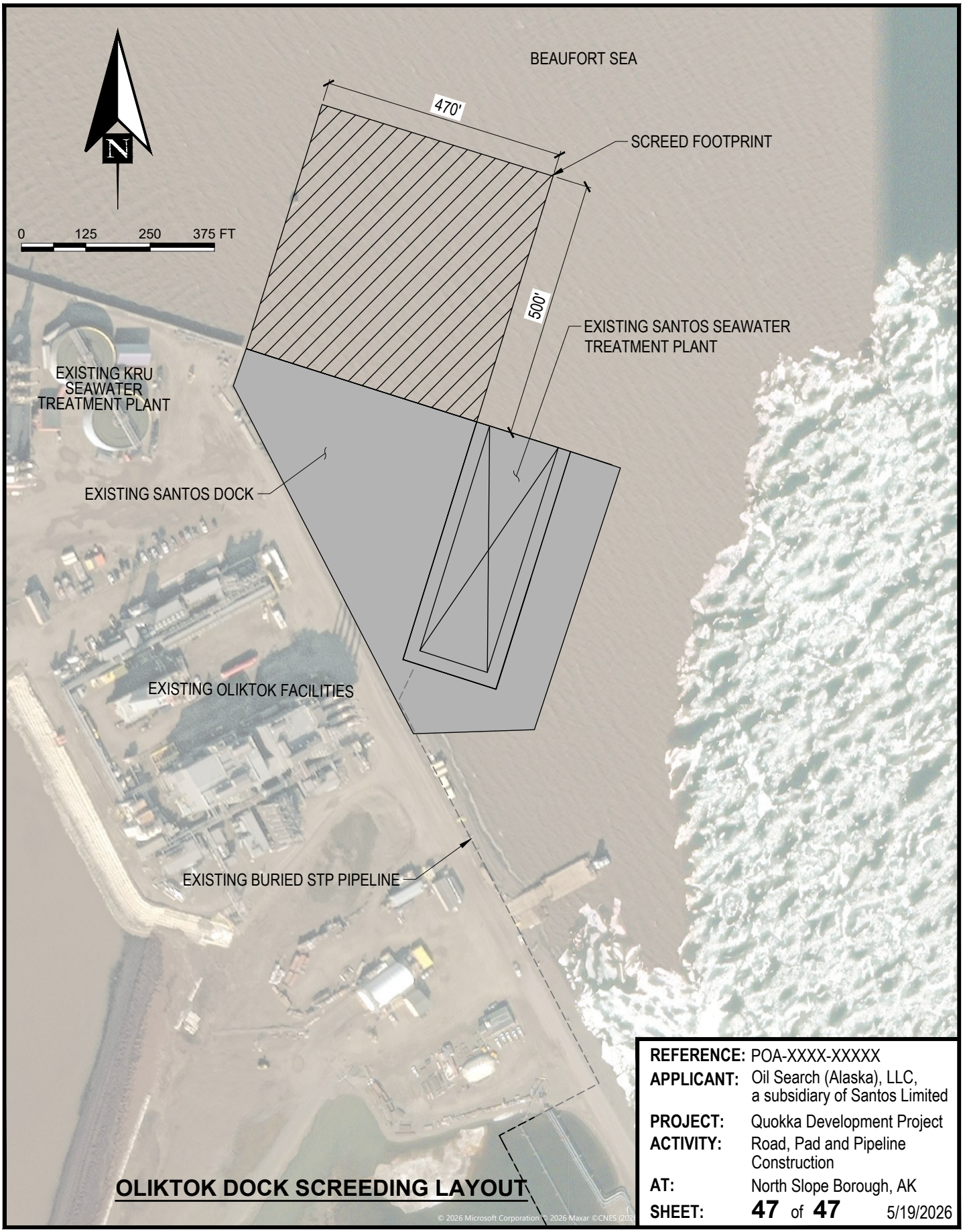
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET: **46** of **47** 5/19/2026

PIPELINE CROSSING PROFILES



OLIKTOK DOCK SCREEDING LAYOUT

REFERENCE: POA-XXXX-XXXXX
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Quokka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET: **47** of **47** 5/19/2026