

HILCORP ALASKA, LLC

LIBERTY DEVELOPMENT ONSHORE/OFFSHORE PIPELINES CIVIL/STRUCTURAL/MECHANICAL ISSUED FOR ROW APPLICATION REV A

EPT NUMBER 45050601
SAP NUMBER —
PARENT W.O. —

HILCORP PROJECT MANAGER

MICHAEL BAKER PROJECT MANAGER

MICHAEL BAKER MECHANICAL ENGINEER

MICHAEL BAKER STRUCTURAL ENGINEER

MICHAEL BAKER CIVIL ENGINEER

Michael Baker 7/28/17

Josh Greenhill 7/28/17

Mat Mollenkopf 7.28.17

Michael Baker 7/28/17

JENNIFER GARDNER
907-777-8321

MICHAEL OLIVE
907-273-1625

JOSH GREENHILL
907-273-1636

MAT MOLLENKOPF
907-273-1669

RAEANNE HEBNES
907-273-1618

Michael Baker

INTERNATIONAL

CHANGES TO THE SEALED DRAWINGS NOT AUTHORIZED IN WRITING BY THE
STAMPING ENGINEER SHALL VOID THE SEAL ON THE ENTIRE DRAWING.

PROJECT SCOPE OF WORK (SOW)

THE FOLLOWING IS A SUMMARY OF THE OVERALL SCOPE OF WORK RELATED TO THE CONSTRUCTION OF LIBERTY ONSHORE AND OFFSHORE PIPELINES, SUPPORTING FACILITIES, AND STRUCTURES. THE INTENT OF THIS PRELIMINARY DESIGN PACKAGE (APPROXIMATELY 30%) IS TO SUPPORT THE COST ESTIMATE AND PLANNING FOR SUBSEQUENT DETAILED DESIGN PHASES. THE PACKAGE REPRESENTS ALL ASPECTS OF PIPELINE CONSTRUCTION WORK FROM THE LIBERTY DRILLING AND PRODUCTION ISLAND (LDPI) TO THE PROPOSED TIE-IN POINT ON THE BADAMI SALES OIL PIPELINE (BSOP) AND HAS NOT BEEN SUBDIVIDED INTO SPECIFIC CONTRACTOR WORK SCOPES.

A LAUNCHER MODULE AND METERING MODULE WILL BE INCLUDED IN THE FINAL SYSTEM DESIGN, BUT HAS NOT BEEN ADVANCED AT THIS TIME. FOR CLARITY, ESTIMATED MODULE FOOTPRINTS AND APPROXIMATE LOCATIONS ARE INDICATED IN THE DRAWINGS.

BY DISCIPLINE, THE LIBERTY PIPELINE SCOPE OF WORK IS SUMMARIZED BELOW.

CIVIL SCOPE OF WORK

TWO GRAVEL PADS WILL BE CONSTRUCTED; AN ICE ROAD ACCESS PAD TO MAINTAIN EAST/WEST ACCESS ALONG THE EXISTING ICE ROAD CORRIDOR, AND A TIE-IN PAD AT THE BSOP. IT IS ASSUMED THE GRAVEL PADS WILL BE INSTALLED PRIOR TO PIPELINE INSTALLATION WORK.

GRAVEL REMOVAL AND PLACEMENT WILL BE REQUIRED AT THE SHORE TRANSITION. THIS WORK WILL SUPPORT THE OFFSHORE PIPELINE INSTALLATION AND WILL TAKE PLACE IN THE SAME SEASON.

CIVIL WORKS WILL INCLUDE INSTALLATION OF THE FOLLOWING:

- APPROXIMATELY 3,500 CY OF GRAVEL FOR THE BSOP TIE-IN PAD.
- APPROXIMATELY 950 CY OF GRAVEL FOR THE ICE ROAD CROSSING.
- NPS 24 X 0.500" WT AND NPS 16 X 0.500" WT CASING PIPE WITHIN THE ICE ROAD CROSSING PAD.
- FILL WILL BE REMOVED AND REPLACED WITH GRAVEL AT THE SHORE TRANSITION.
- ISLAND APPROACH, INCLUDING TEMPORARY AND PERMANENT SHEET PILING WILL BE DESIGNED AND INSTALLED BY OTHERS AND IS NOT INCLUDED IN THIS SCOPE OF WORK.
- INSULATION BENEATH GRAVEL WILL BE INSTALLED PER THE CONSTRUCTION DRAWINGS.

ONSHORE PIPELINE WORK

ONSHORE PIPELINE CONSTRUCTION IS EXPECTED TO BE INDEPENDENT OF OFFSHORE PIPELINE CONSTRUCTION AND CAN COMMENCE ANY TIME AFTER THE GRAVEL PADS ARE IN PLACE. ONSHORE PIPELINE CONSTRUCTION WILL INCLUDE THE FOLLOWING:

- APPROXIMATELY 1.5 MILES OF NPS 12 X 0.438" WT AND NPS 4 X 0.300" WT PIPELINE AND ASSOCIATED SUPPORT STRUCTURES (VSM AND CROSSBEAM) WILL BE INSTALLED BETWEEN THE BSOP TIE-IN PAD AND THE SHORE TRANSITION. ONE ICE ROAD CROSSING EXISTS ALONG THIS ROUTE.
- ANCHOR, GUIDE, AND SLIDE SADDLES WILL BE INSTALLED FOR EACH NEW PIPELINE.
- TUNED VIBRATION ABSORBERS (TVA) WILL BE INSTALLED ALONG PIPELINES REQUIRING WIND INDUCED VIBRATION (WIV) MITIGATION AS INDICATED IN THE DESIGN DRAWINGS.
- MESSANGER CABLE ATTACHMENTS, MESSANGER CABLE, AND FIBER OPTIC CABLES (FOC) WILL BE INSTALLED FROM SHORE TRANSITION TO THE BSOP TIE-IN PAD AS SHOWN IN THE DESIGN DRAWINGS.
- EACH PIPELINE WILL BE HYDROSTATICALLY TESTED PER CLIENT SPECIFICATION AND BOTH PIPELINES WILL BE BLINDED AT EACH END WITH A 3/4-INCH BLEED PENDING FINAL TIE-IN TO THE OFFSHORE PIPELINE SEGMENT AND EQUIPMENT AT THE BSOP TIE-IN PAD.

OFFSHORE PIPELINE WORK

- APPROXIMATELY 5.6 MILES OF NEW OFFSHORE PIPELINES WILL BE INSTALLED BETWEEN THE SHORE TRANSITION AND THE LDPI. PIPELINES WILL BE CONSOLIDATED IN A BUNDLE WHICH INCLUDES A NPS 12 X 0.500" WT INNER PIPE INSIDE AN NPS 16 X 0.625" WT OUTER PIPE, FIBER OPTIC CABLE, AND A NPS 4 UTILITY PIPELINE.
- BULKHEAD FITTINGS CONNECTING THE NPS 16 OUTER PIPE TO THE NPS 12 INNER PIPE WILL BE INSTALLED ABOVEGROUND AT THE SHORE AND LDPI TRANSITIONS.
- THERMOYSPHYONS WILL BE INSTALLED AT THE SHORE CROSSING. QUANTITIES TBD.

GENERAL

- THE ONSHORE AND OFFSHORE SEGMENTS OF THE NPS 4 UTILITY PIPELINE WILL BE WELDED TOGETHER AT THE TRANSITION, AND BLIND FLANGED AT BOTH THE BSOP TIE-IN PAD AND LDPI. THE PIPELINE WILL BE DRIED AND LEFT WITH A NITROGEN SEAL UPON COMPLETION OF HYDROSTATIC TESTING.
- THE ONSHORE AND OFFSHORE SEGMENTS OF THE NPS 12 EXPORT PIPELINE WILL BE WELDED TOGETHER AT THE TRANSITION AND WILL TIE IN TO THE METERING SKID AT THE BSOP AND THE LSOP LAUNCHER AT THE LDPI.
- FOC WILL BE CONNECTED AT THE ONSHORE/OFFSHORE TRANSITION POINT AND TIED IN TO THE METERING SKID ON THE BSOP TIE-IN PAD AND TO FACILITIES AT THE LDPI.

TRUCKABLE MODULES

TRUCKABLE MODULE SCOPE OF WORK WILL INCLUDE THE FOLLOWING:

- MODULE PILE INSTALLATION FOR EACH SKID (QUANTITIES TBD)
- LAUNCHER MODULE INSTALLATION FOR THE LSOP AT THE LDPI
- METERING SKID INSTALLATION AT THE BSOP TIE-IN PAD

TIE-IN ACTIVITIES

- BYPASS PIPING AND PIGGABLE WYE INSTALLATION TO THE BSOP (BY OTHERS)
- TIE-IN PIPING INSTALLATION TO THE BSOP (BY OTHERS)

PROVISIONS FOR NPS 4 PIPELINE INSPECTION AND CLEANING WILL BE FUTURE WORK AND ARE NOT INCLUDED IN THIS SCOPE OF WORK.

CODES AND STANDARDS

ALASKA GENERAL SAFETY CODE (AGSC)	OCCUPATIONAL SAFETY AND HEALTH STANDARDS
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIVE REGULATIONS
2014 ASH	ALASKA SAFETY HANDBOOK
FEBRUARY 2005 NSEFH	NORTH SLOPE ENVIRONMENTAL FIELD HANDBOOK
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)	B31.4, 2012, PIPELINE TRANSPORTATION SYSTEMS FOR LIQUIDS AND SLURRIES B31.8, 2010, GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

LEGEND

CENTER LINE

LETTER INDICATES SECTION OR ELEVATION
ARROW INDICATES DIRECTION OF CUTTING PLANE

INDICATES DRAWING NUMBER WHERE SECTION IS DRAWN
- INDICATES DRAWN ON SAME SHEET

NUMBER INDICATES DETAIL

INDICATES DRAWING NUMBER WHERE DETAIL IS DRAWN
- INDICATES DRAWN ON SAME SHEET

GENERAL NOTES

- KNOWN UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. PRIOR TO WORK THE CONTRACTOR SHALL VERIFY SIZE, DEPTH, AND LOCATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL PROTECT UTILITIES AND STRUCTURES FROM DAMAGE AND SHALL NOT DISTURB UNDERGROUND UTILITIES/STRUCTURES THAT ARE TO REMAIN.

ABBREVIATIONS

ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASP	ALASKA STATE PLANE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
API	AMERICAN PETROLEUM INSTITUTE
BPMSL	BP MEAN SEA LEVEL
BPXA	BP EXPLORATION ALASKA
BSOP	BADAMI SALES OIL PIPELINE
C	CENTERLINE
CVN	CHARPY V-NOTCH
CY	CUBIC YARDS
DIA	DIAMETER
E	EASTING
EA	EACH
EG	EXISTING GRADE
EL	ELEVATION
FBE	FUSION BONDED EPOXY
FG	FINISH GRADE
FT	FEET
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HSM	HORIZONTAL SUPPORT MEMBER
ID	INSIDE DIAMETER
ILI	IN-LINE INSPECTION
IN	INCHES
LBS	POUNDS
LDPI	LIBERTY DRILLING AND PRODUCTION ISLAND
LPS	LOW PRESSURE SERVICE
LSOP	LIBERTY SALES OIL PIPELINE
LTCS	LOW TEMPERATURE CARBON STEEL
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NACE	NATIONAL ASSOCIATION OF CORROSION ENGINEERS
NAD	NORTH AMERICAN DATUM
NPS	NOMINAL PIPE SIZE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PIP	PIPE-IN-PIPE
P	PLATE
R	RADIUS
REV	REVISION
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FEET
SOW	SCOPE OF WORK
STA	STATION
TBD	TO BE DETERMINED
THK	THICK
TOS	TOP OF STEEL
TVA	TUNED VIBRATION ABSORBER
TYP	TYPICAL
UHMW-PE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
VPI	VERTICAL POINT OF INTERSECTION
VSM	VERTICAL SUPPORT MEMBER
WIV	WIND INDUCED VIBRATION
WT	WALL THICKNESS

REFERENCE DRAWINGS

NO.	DATE	REVISION	BY	CHK	APPD	NO.	DATE	REVISION	BY	CHK	APPD

PRELIMINARY
NOT FOR
CONSTRUCTION

ENGINEERING RECORD	DATE
DRN: R. HOBBS	01/16
DSGN:	
CHK:	
APP:	
SCALE:	NONE

HILCORP ALASKA, LLC

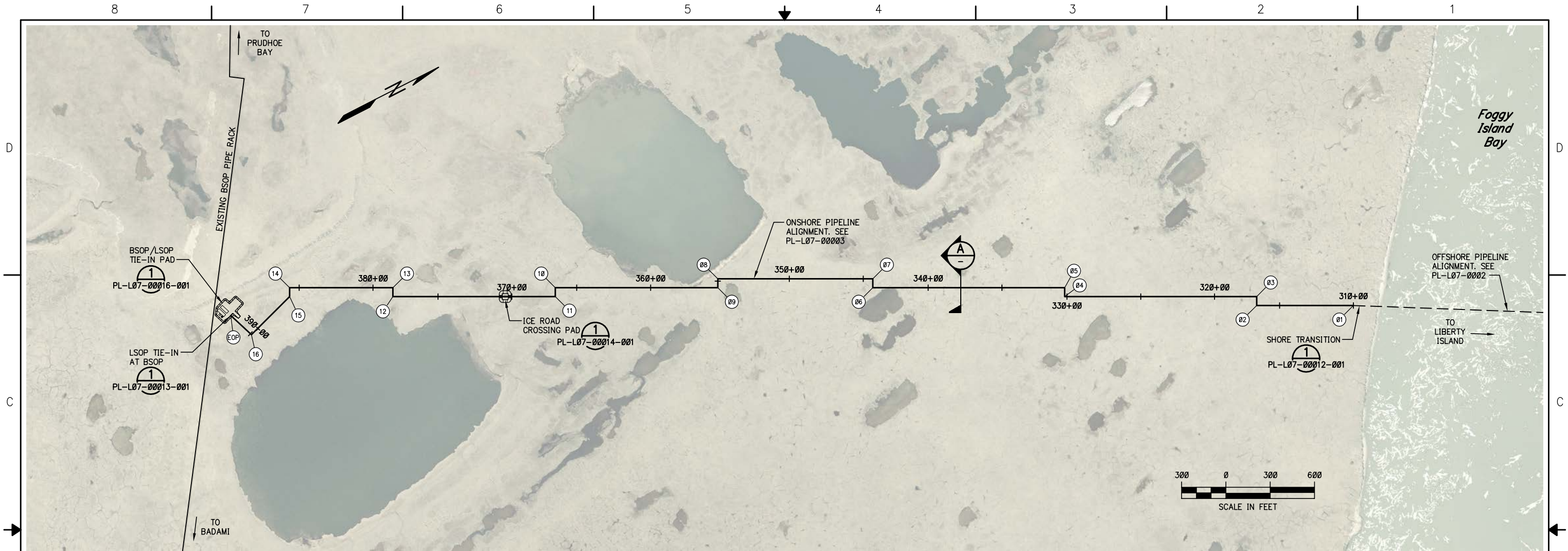
Michael Baker

INTERNATIONAL

TITLE OF DRAWING:

L07 PIPELINE
PROJECT NOTES, ABBREVIATIONS & LEGEND
LIBERTY DEVELOPMENT

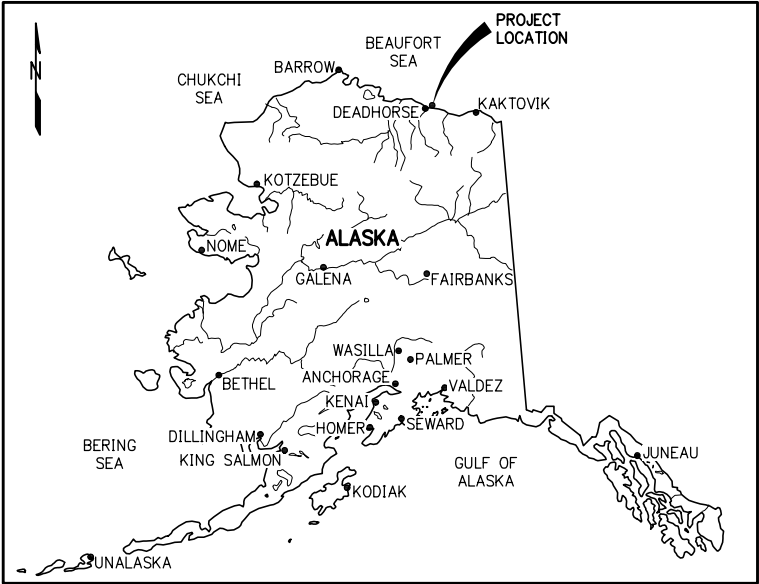
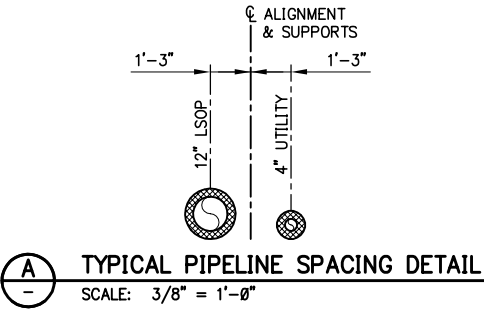
WORK ORDER	DRAWING NUMBER	REV	SHEET
	PR-PL-L07-45050601-02	A	001
MODULE:			OF -



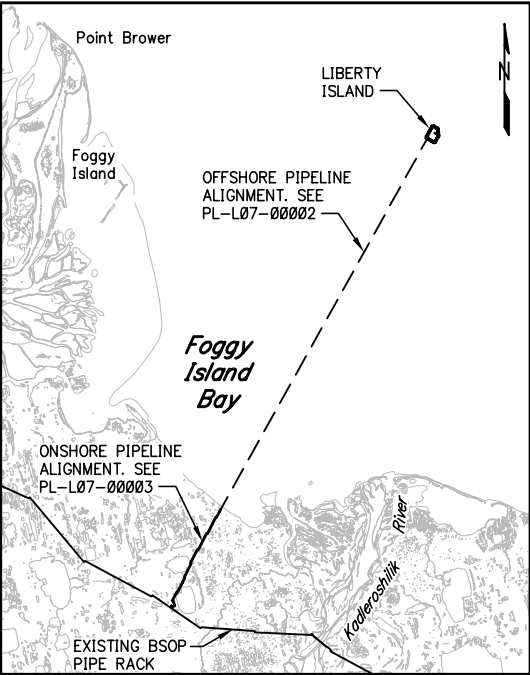
ONSHORE PIPELINE ALIGNMENT SITE PLAN

ONSHORE PIPELINE ALIGNMENT COORDINATE TABLE					
POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
01	BEGIN	310+00.00	5926478.22	1429890.04	—
02	PI	316+55.00	5925894.61	1429592.68	90.0°
03	PI	317+15.00	5925921.85	1429539.22	90.0°
04	PI	330+15.00	5924763.54	1428949.03	90.0°
05	PI	330+75.00	5924790.78	1428895.57	90.0°
06	PI	343+75.00	5923632.47	1428305.38	90.0°
07	PI	344+35.00	5923659.71	1428251.92	90.0°
08	PI	354+85.00	5922724.16	1427775.23	90.0°
09	PI	355+45.00	5922696.92	1427828.69	90.0°
10	PI	366+45.00	5921716.81	1427329.30	90.0°
11	PI	367+05.00	5921689.57	1427382.76	90.0°
12	PI	378+05.00	5920709.46	1426883.37	90.0°
13	PI	378+65.00	5920736.70	1426829.91	90.0°
14	PI	385+65.00	5920113.00	1426512.12	90.0°
15	PI	386+25.00	5920085.76	1426565.58	45.0°
16	PI	389+90.00	5919738.62	1426678.37	88.0°
EOP	END	391+81.00	5919673.30	1426498.89	—

NOTES
1. ALIGNMENT STATIONING REFLECTS HORIZONTAL DISTANCE.
2. HORIZONTAL DATUM IS ALASKA STATE PLANE ZONE 3, NAD83.
3. VERTICAL DATUM IS BP MEAN SEA LEVEL (BPMSL), US FEET.

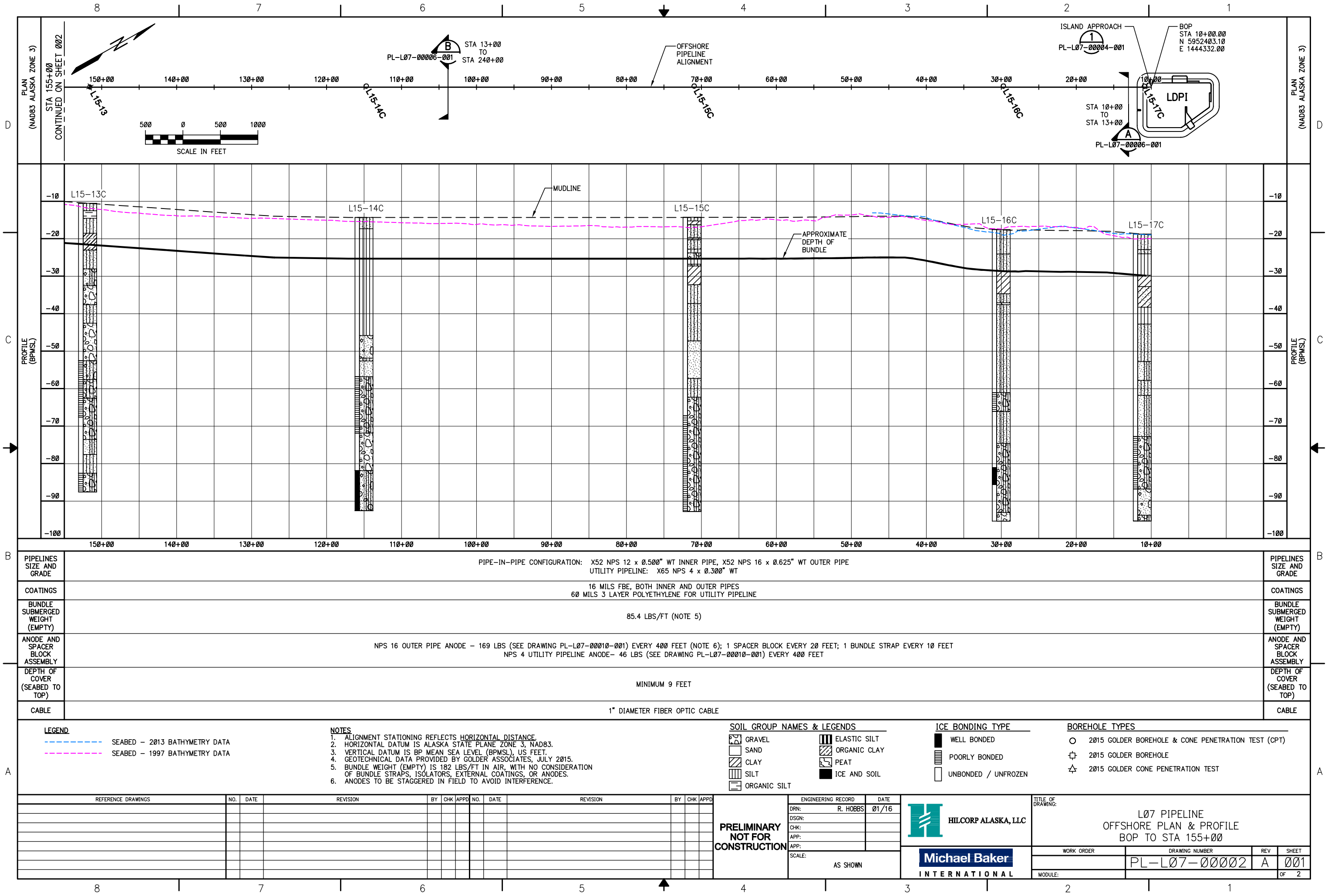


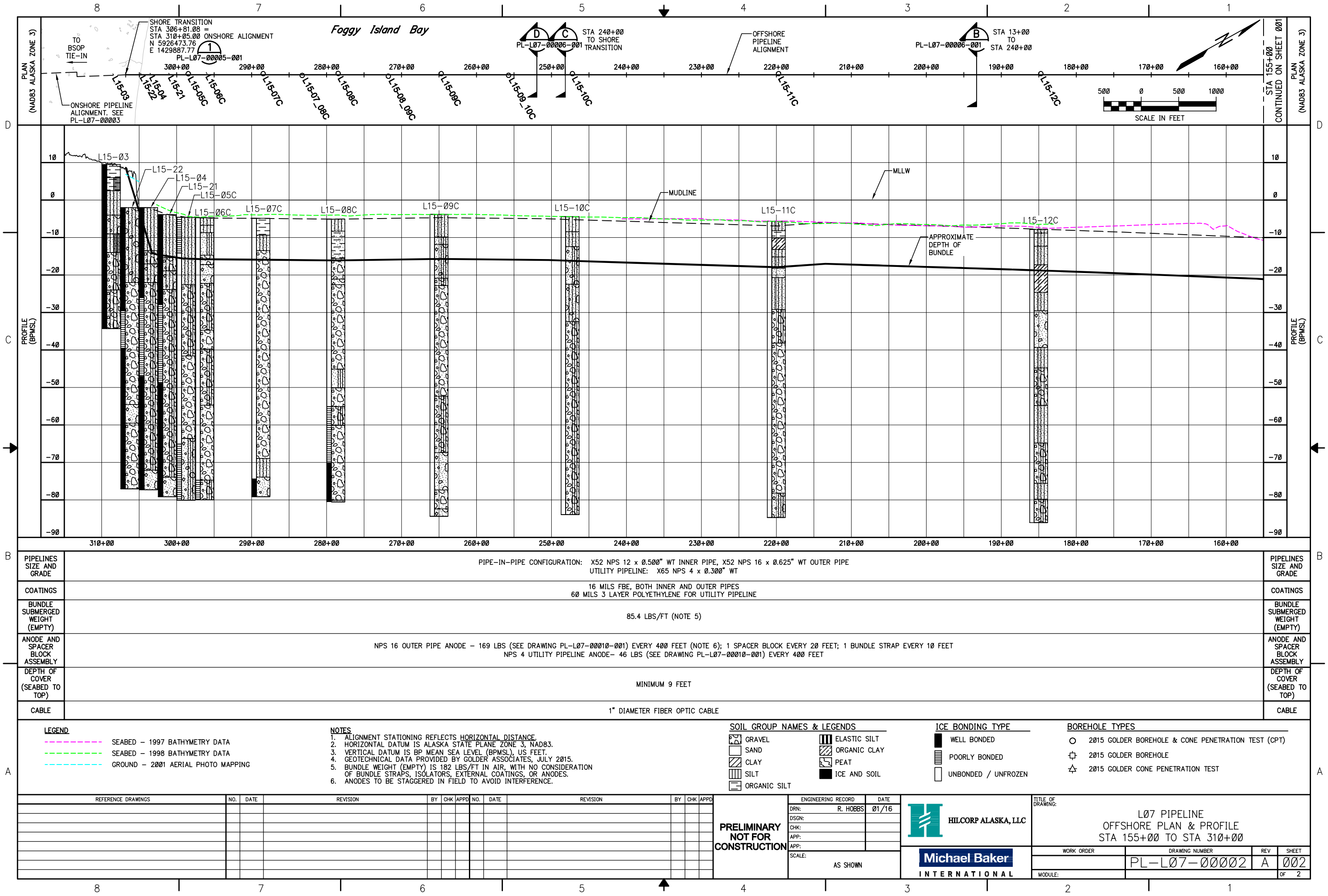
PROJECT LOCATION MAP
NOT TO SCALE

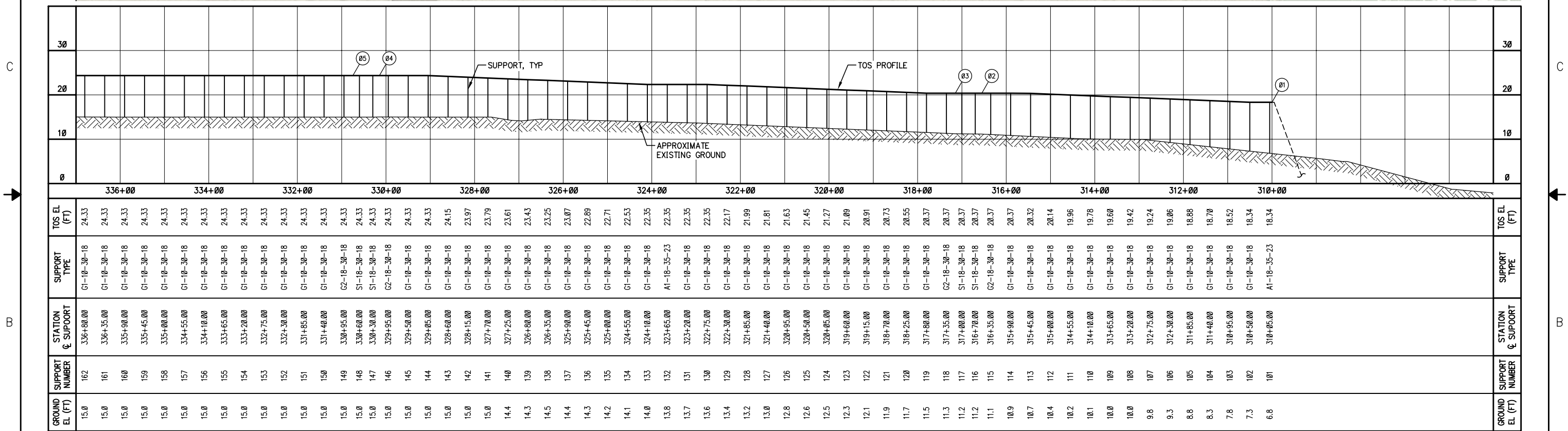
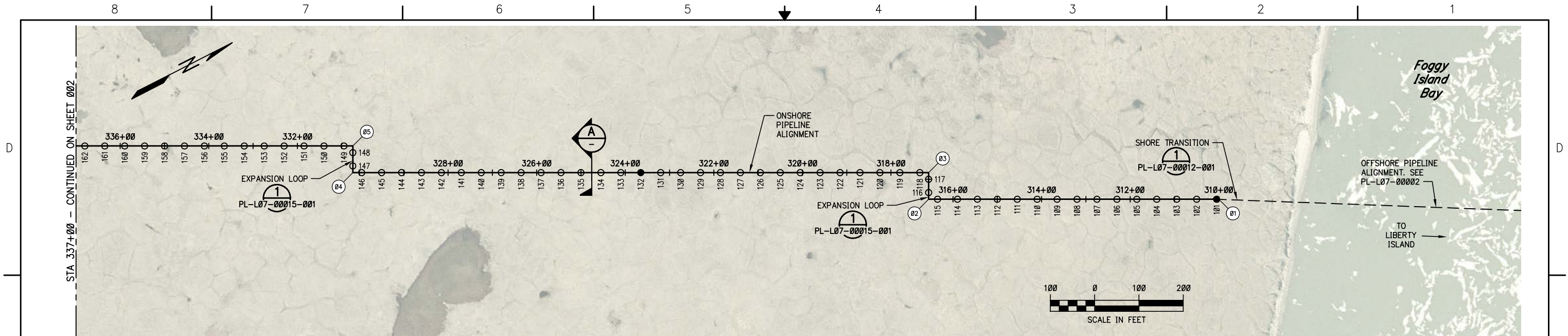


VICINITY MAP
NOT TO SCALE

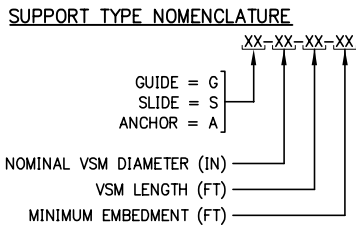
REFERENCE DRAWINGS		NO.	DATE	REVISION		BY	CHK	APPD	NO.	DATE	REVISION		BY	CHK	APPD



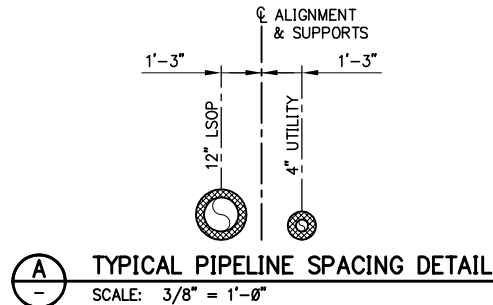




PIPELINE DATA TABLE				
PIPELINE	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
12" LSOP	12.75" DIA API 5L X65	0.438	12-30	3.0
4" UTILITY	4.50" DIA API 5L X65	0.300	12-30	3.0



- LEGEND
- GUIDED OR SLIDING SUPPORT
 - ANCHORED SUPPORT
 - ⊙ PI OR VPI LOCATION



COORDINATE TABLE					
POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
01	BEGIN	310+00.00	5926478.22	1429890.04	-
02	P1	316+55.00	5925894.61	1429592.68	90.0°
03	P1	317+15.00	5925921.85	1429539.22	90.0°
04	P1	330+15.00	5924763.54	1428949.03	90.0°
05	P1	330+75.00	5924790.78	1428895.57	90.0°

- NOTES
- ALIGNMENT STATIONING REFLECTS HORIZONTAL DISTANCE.
 - HORIZONTAL DATUM IS ALASKA STATE PLANE ZONE 3, NAD83.
 - VERTICAL DATUM IS BP MEAN SEA LEVEL (BPMSL), US FEET.
 - FOR TYPES G1, G2, S1, AND A1 SUPPORT DETAILS, SEE DRAWING SS-L07-00001-001.

REFERENCE DRAWINGS	NO.	DATE	REVISION	BY	CHK	APPD	NO.	DATE	REVISION	BY	CHK	APPD

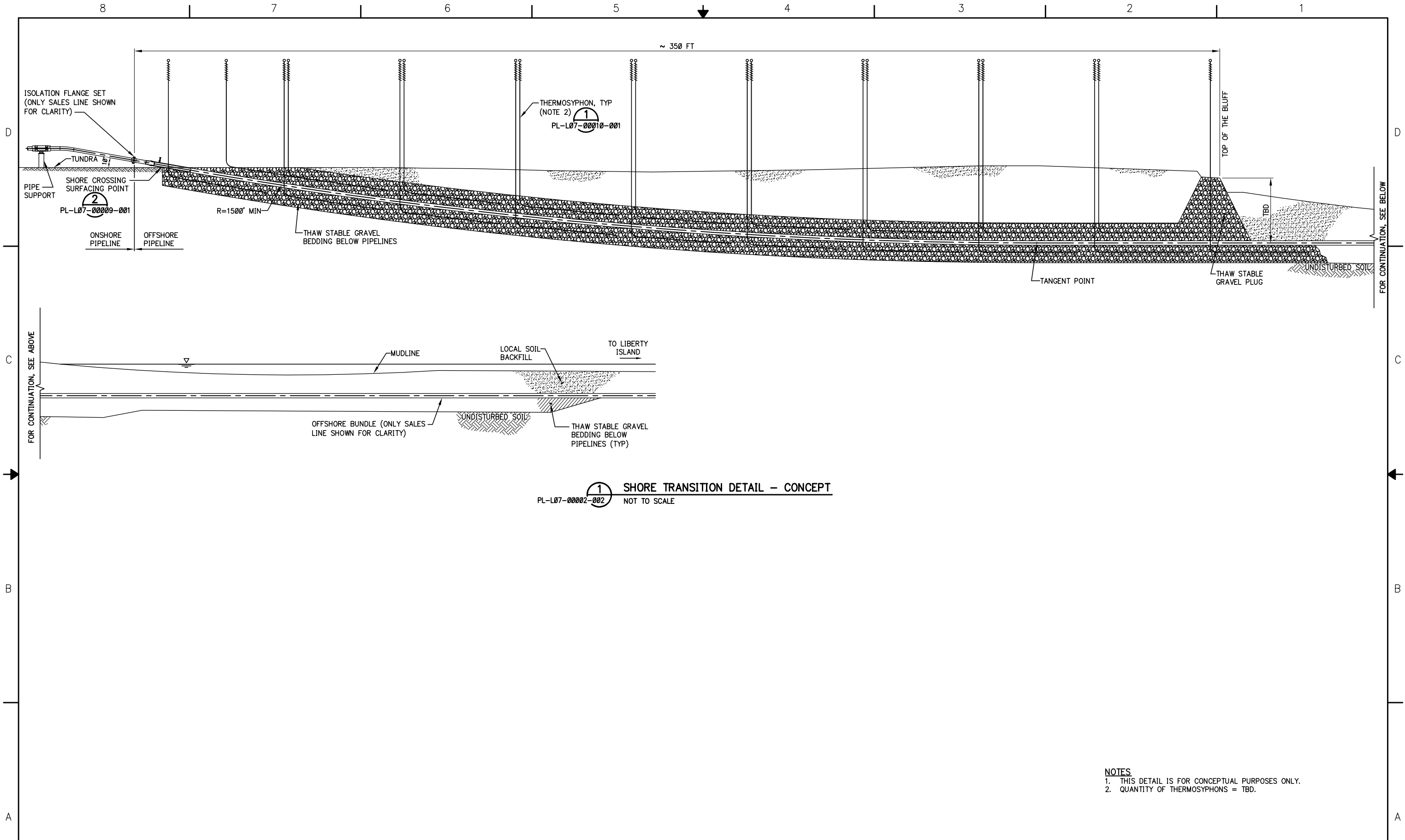
PRELIMINARY
NOT FOR
CONSTRUCTION

ENGINEERING RECORD	DATE
DRN: R. HOBBS	01/16
DSGN:	
CHK:	
APP:	
SCALE:	AS SHOWN

HILCORP ALASKA, LLC

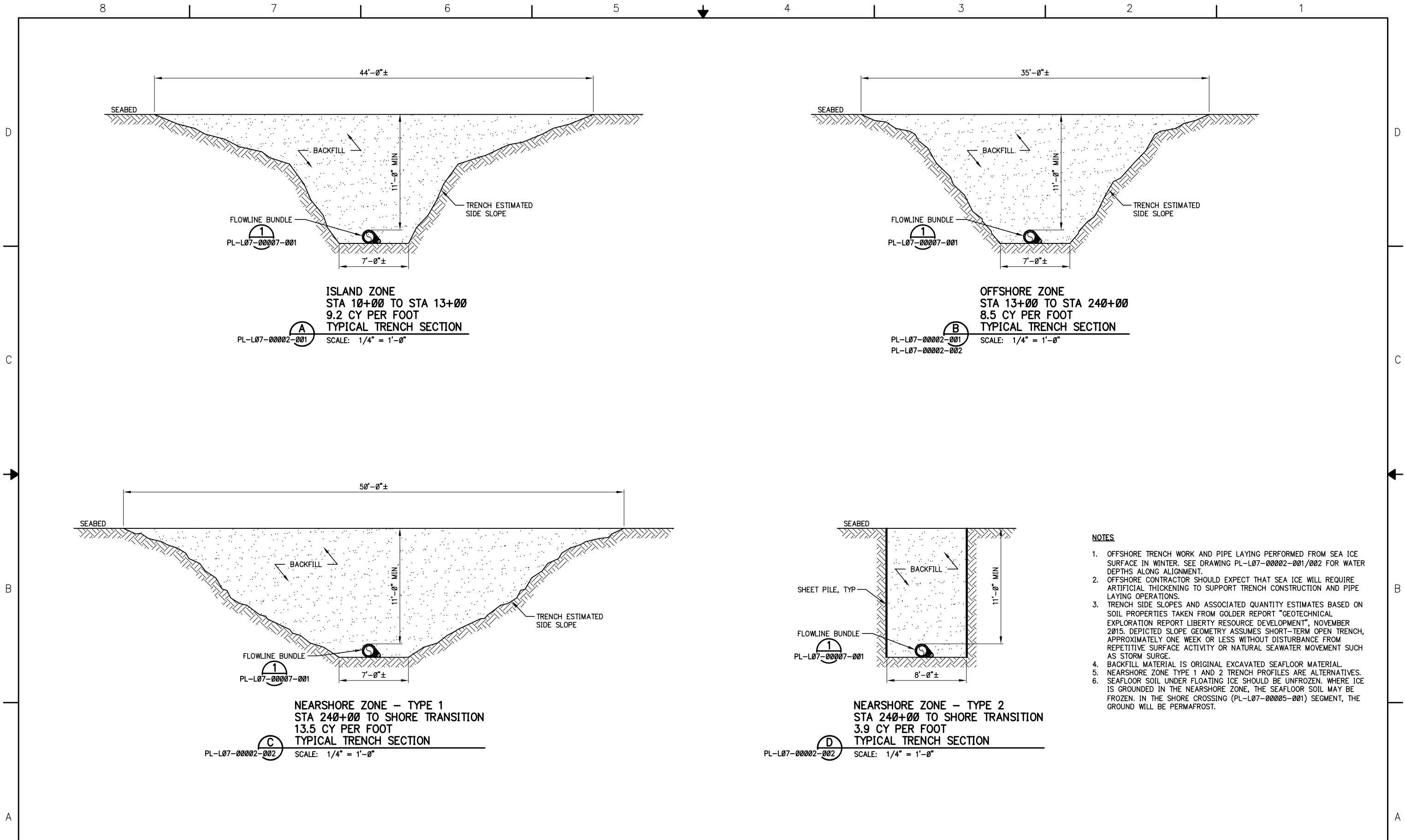
Michael Baker
INTERNATIONAL

TITLE OF DRAWING:			
L07 PIPELINE ONSHORE PLAN & PROFILE STA 310+00 TO STA 337+00			
WORK ORDER	DRAWING NUMBER	REV	SHEET
	PL-L07-00003	A	001
MODULE:	OF 3		



NOTES
1. THIS DETAIL IS FOR CONCEPTUAL PURPOSES ONLY.
2. QUANTITY OF THERMOSYPHONS = TBD.

REFERENCE DRAWINGS				NO.	DATE	REVISION				BY	CHK	APPD	NO.	DATE	REVISION				BY	CHK	APPD	PRELIMINARY NOT FOR CONSTRUCTION	ENGINEERING RECORD		DATE	 HILCORP ALASKA, LLC		TITLE OF DRAWING: L07 PIPELINE SHORE TRANSITION DETAIL – CONCEPT LIBERTY DEVELOPMENT							
																							DRN:	J. MONROY	01/16										
																							DSGN:												
																							CHK:												
																							APP:												
																							APP:												
																							SCALE:	AS SHOWN		 Michael Baker INTERNATIONAL		WORK ORDER	DRAWING NUMBER		REV	SHEET			



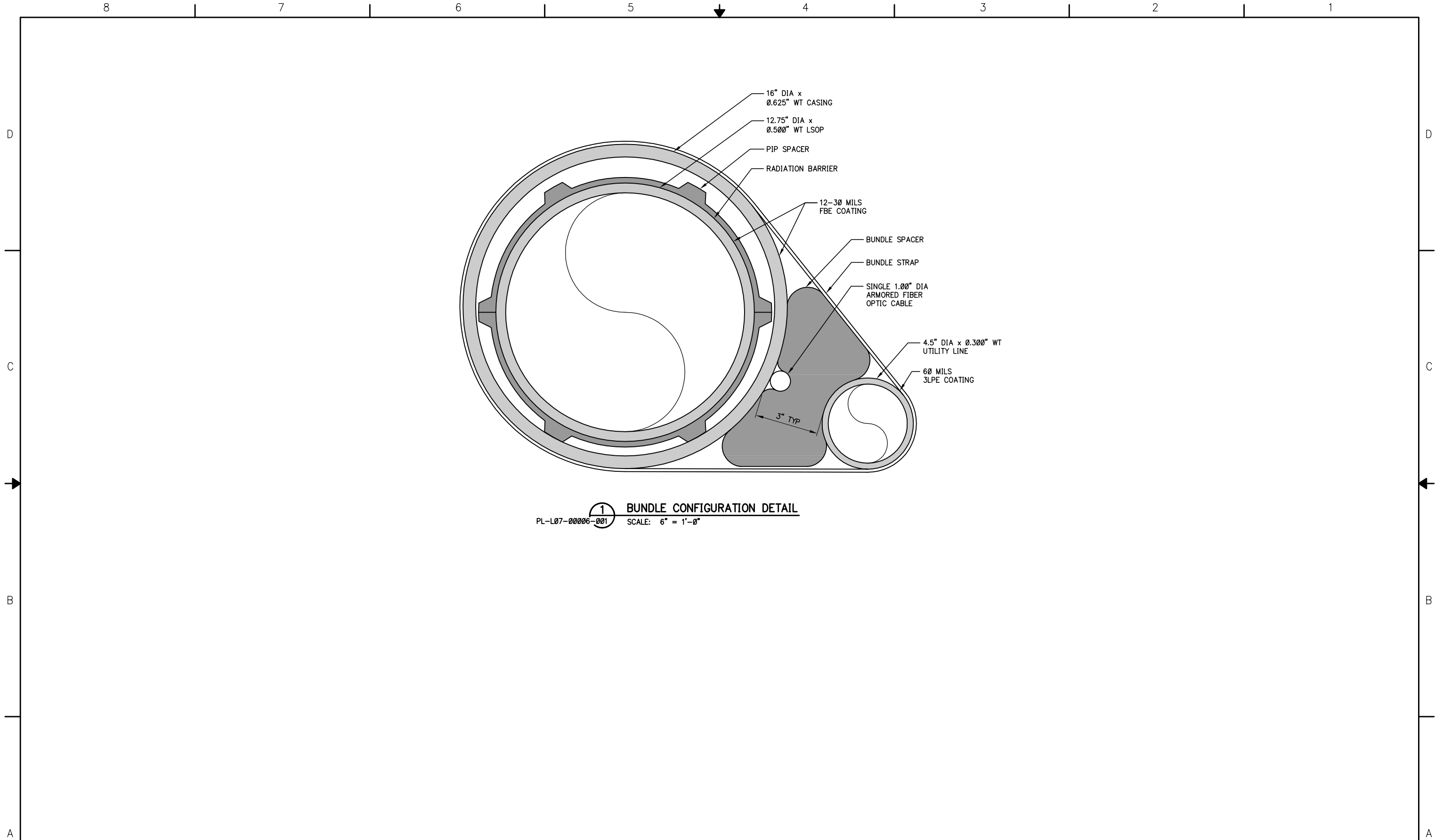
- NOTES**
1. OFFSHORE TRENCH WORK AND PIPE LAYING PERFORMED FROM SEA ICE SURFACE IN WINTER. SEE DRAWING PL-L07-00002-001/002 FOR WATER DEPTHS ALONG ALIGNMENT.
 2. OFFSHORE CONTRACTOR SHOULD EXPECT THAT SEA ICE WILL REQUIRE ARTIFICIAL THICKENING TO SUPPORT TRENCH CONSTRUCTION AND PIPE LAYING OPERATIONS.
 3. TRENCH SIDE SLOPES AND ASSOCIATED QUANTITY ESTIMATES BASED ON SOIL PROPERTIES TAKEN FROM GOLDER REPORT "GEOTECHNICAL EXPLORATION REPORT LIBERTY RESOURCE DEVELOPMENT", NOVEMBER 2015. DEPICTED SLOPE GEOMETRY ASSUMES SHORT-TERM OPEN TRENCH, APPROXIMATELY ONE WEEK OR LESS WITHOUT DISTURBANCE FROM REPETITIVE SURFACE ACTIVITY OR NATURAL SEAWATER MOVEMENT SUCH AS STORM SURGE.
 4. BACKFILL MATERIAL IS ORIGINAL EXCAVATED SEAFLOOR MATERIAL.
 5. NEARSHORE ZONE TYPE 1 AND 2 TRENCH PROFILES ARE ALTERNATIVES.
 6. SEAFLOOR SOIL UNDER FLOATING ICE SHOULD BE UNFROZEN. WHERE ICE IS GROUNDED IN THE NEARSHORE ZONE, THE SEAFLOOR SOIL MAY BE FROZEN. IN THE SHORE CROSSING (PL-L07-00005-001) SEGMENT, THE GROUND WILL BE PERMAFROST.

REFERENCE DRAWINGS				NO.	DATE	REVISION				BY	CHK	APPD	NO.	DATE	REVISION				BY	CHK	APPD

PRELIMINARY NOT FOR CONSTRUCTION	ENGINEERING RECORD	DATE
	DRN: R. HOBBS	01/16
	DSGN:	
	CHK:	
	APP:	
SCALE: AS SHOWN		

	HILCORP ALASKA, LLC		

TITLE OF DRAWING: L07 PIPELINE TRENCHING AND BACKFILLING DETAILS LIBERTY DEVELOPMENT			
WORK ORDER	DRAWING NUMBER	REV	SHEET
	PL-L07-00006	A	001
MODULE:	OF -		



1 BUNDLE CONFIGURATION DETAIL
PL-L07-00006-001 SCALE: 6" = 1'-0"

REFERENCE DRAWINGS				NO.	DATE	REVISION				BY	CHK	APPD	NO.	DATE	REVISION				BY	CHK	APPD

PRELIMINARY NOT FOR CONSTRUCTION	ENGINEERING RECORD	DATE
	DRN: R. HOBBS	01/16
	DSGN:	
	CHK:	
	APP:	
	SCALE: AS SHOWN	

 HILCORP ALASKA, LLC	TITLE OF DRAWING:	
	L07 PIPELINE BUNDLE CONFIGURATION DETAIL LIBERTY DEVELOPMENT	
	WORK ORDER	DRAWING NUMBER
		PL-L07-00007
	REV	SHEET
	A	001
MODULE:		OF -

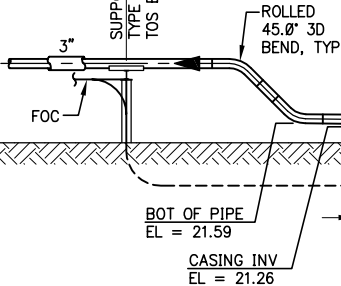


PL-L07-00001-001
PL-L07-00003-003

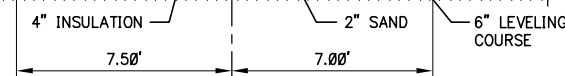
POINT #	NORTHING	EASTING	FINISH EL
01	5921378.33	1427201.73	26.00
02	5921413.97	1427219.89	26.00
03	5921395.81	1427255.53	26.00
04	5921360.17	1427237.37	26.00

NOTES

1. HORIZONTAL DATUM IS ALASKA STATE PLANE ZONE 3, NAD83.
2. VERTICAL DATUM IS BPMSL, US FOOT.
3. GRAVEL PAD SIDE SLOPES SHALL BE 3:1 TYP.
4. GRAVEL QUANTITY = 950 CY.
5. TUNDRA AREA IMPACTED = 6,000 SF.



ICE ROAD CROSSING PAD - SECTION
SCALE: 1" = 10'

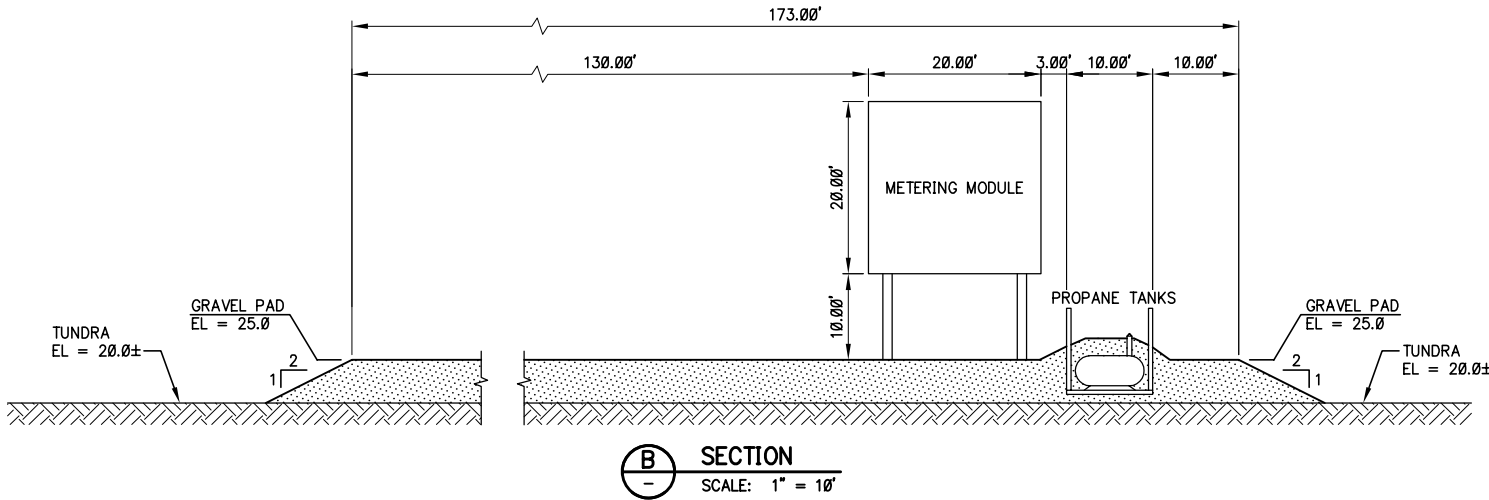
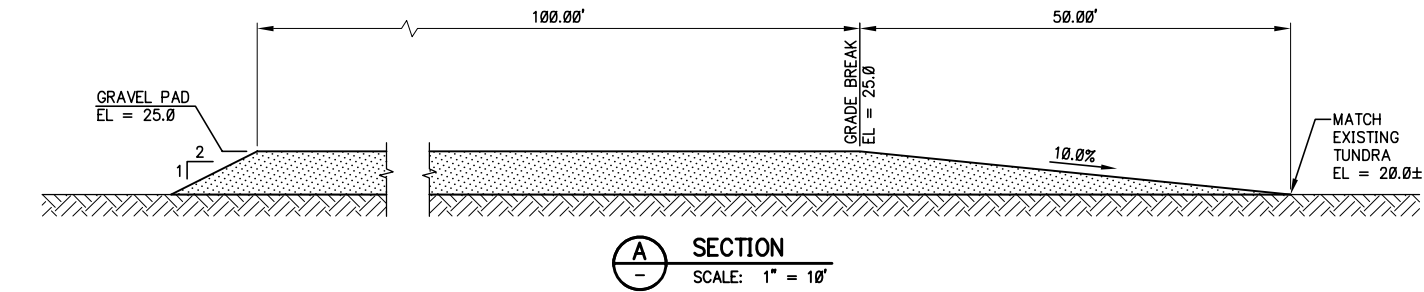
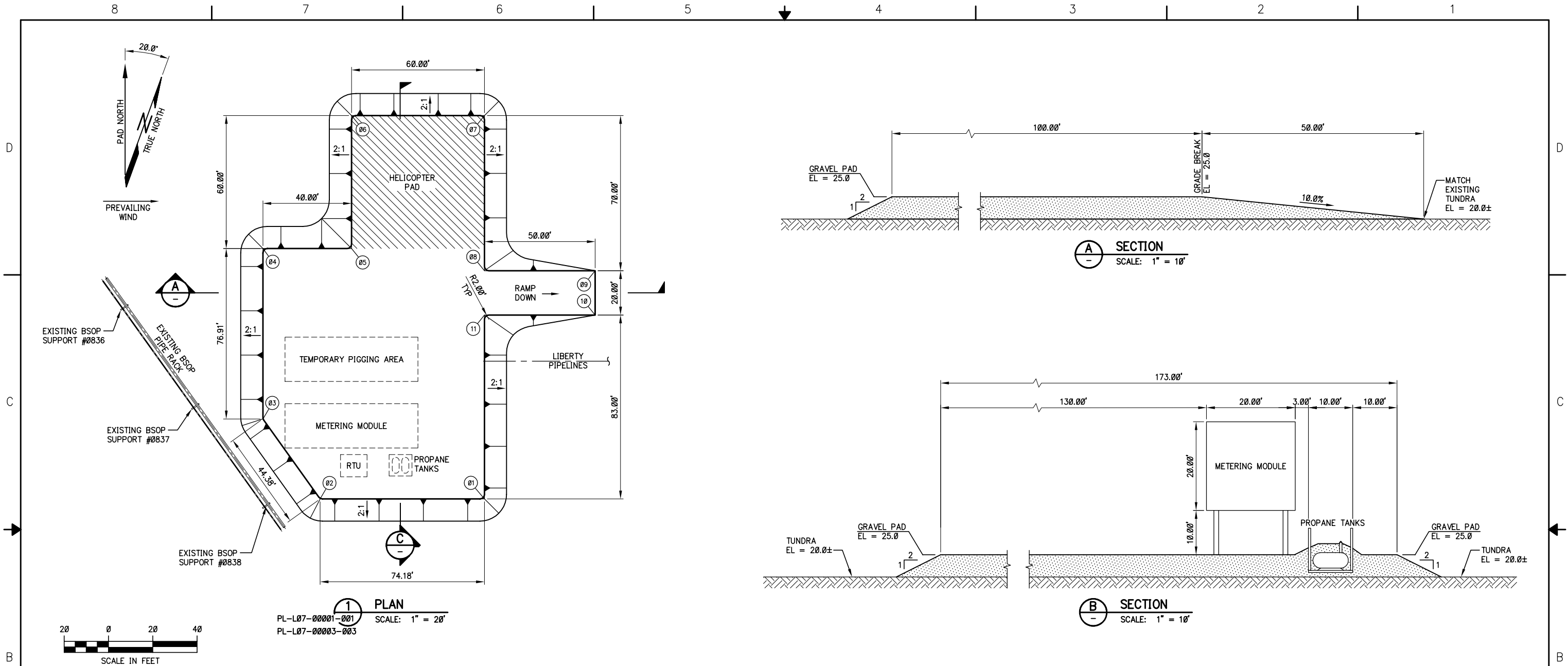


3 BEDDING DETAIL
SCALE: 1" = 3'



ICE ROAD CROSSING PAD - SECTION
SCALE: 1" = 10'

REFERENCE DRAWINGS			NO.	DATE	REVISION			BY	CHK	APPD	NO.	DATE	REVISION			BY	CHK	APPD	PRELIMINARY NOT FOR CONSTRUCTION	ENGINEERING RECORD		DATE	 HILCORP ALASKA, LLC	TITLE OF DRAWING:					
																				DRN:	R. HOBBS	01/16 <th colspan="4">L07 PIPELINE ICE ROAD CROSSING PAD PLAN & ELEVATIONS LIBERTY DEVELOPMENT</th>		L07 PIPELINE ICE ROAD CROSSING PAD PLAN & ELEVATIONS LIBERTY DEVELOPMENT					
																				DSGN:									
																				CHK:									
																				APP:									
																				APP:									
																				SCALE:	AS SHOWN								
																						 Michael Baker INTERNATIONAL	WORK ORDER		DRAWING NUMBER		REV	SHEET	
																								PL-L07-00014		A	001		
																								MODULE:				OF	-



PAD CORNER COORDINATE TABLE			
POINT #	NORTHING	EASTING	FINISH EL
01	5919615.03	1426520.54	25.0
02	5919589.66	1426450.83	25.0
03	5919614.74	1426414.22	25.0
04	5919687.01	1426387.92	25.0
05	5919700.69	1426425.50	25.0
06	5919757.07	1426404.98	25.0
07	5919777.59	1426461.36	25.0
08	5919771.82	1426485.31	25.0
09	5919728.92	1426532.29	20.0±
10	5919710.12	1426539.13	20.0±
11	5919693.02	1426492.15	25.0

- NOTES
1. HORIZONTAL DATUM IS ALASKA STATE PLANE ZONE 3, NAD83.
 2. VERTICAL DATUM IS BPMSL, US FOOT.
 3. GRAVEL PAD SIDE SLOPES SHALL BE 2:1 MAX.
 4. GRAVEL QUANTITY = 3,500 CY.
 5. TUNDRA AREA IMPACTED = 21,125 SF.

REFERENCE DRAWINGS			NO.	DATE	REVISION			BY	CHK	APPD	NO.	DATE	REVISION			BY	CHK	APPD	PRELIMINARY NOT FOR CONSTRUCTION	ENGINEERING RECORD		DATE	 HILCORP ALASKA, LLC	TITLE OF DRAWING: L07 PIPELINE BSOP/LSOP TIE-IN PAD PLAN & ELEVATIONS LIBERTY DEVELOPMENT					
																				DRN:	R. HOBBS	01/16							
																				DSGN:				 Michael Baker INTERNATIONAL					
																				CHK:									
																				APP:									
																				APP:									
																	SCALE:			AS SHOWN									