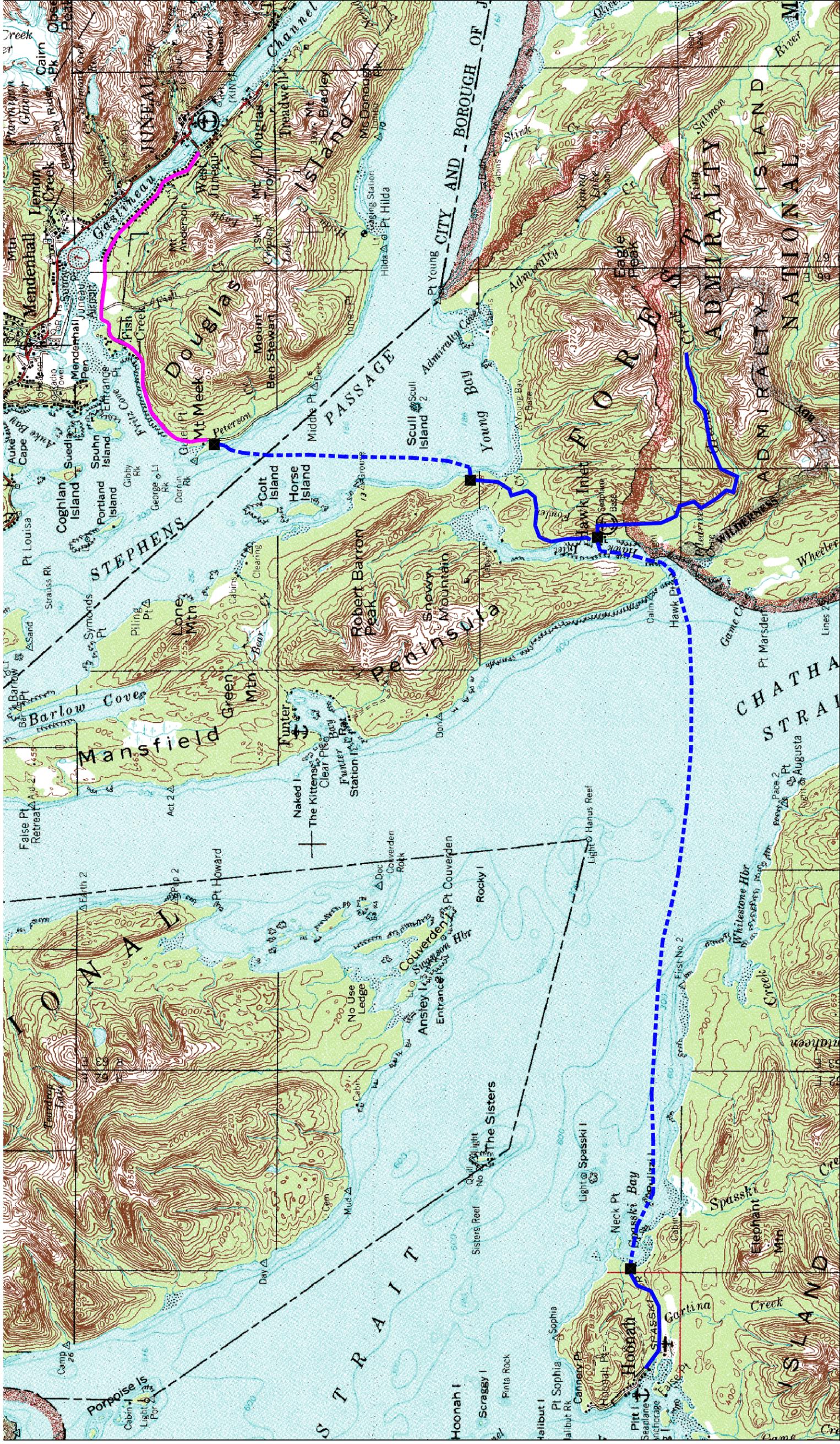


**FIGURE 1-1**  
**Southeast Alaska**  
**Transmission Lines**  
**Southeast Alaska Intertie Study**



**LEGEND**

- Proposed Route
- - - Submarine Cable
- Existing Transmission Line
- Submarine Cable Termination



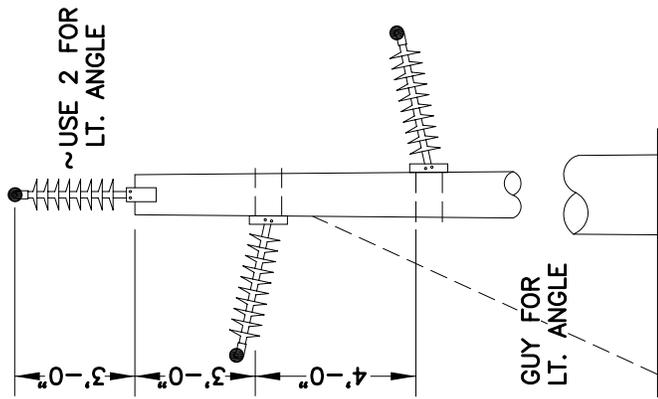
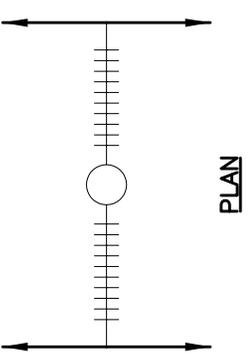
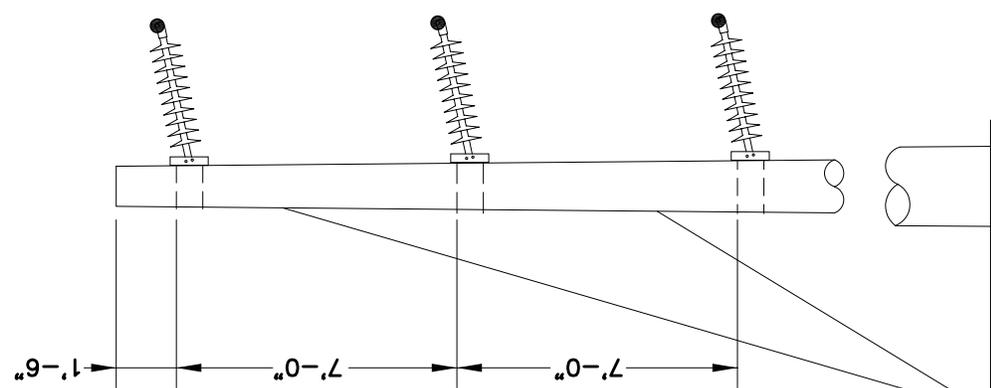
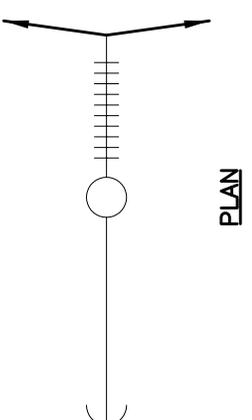
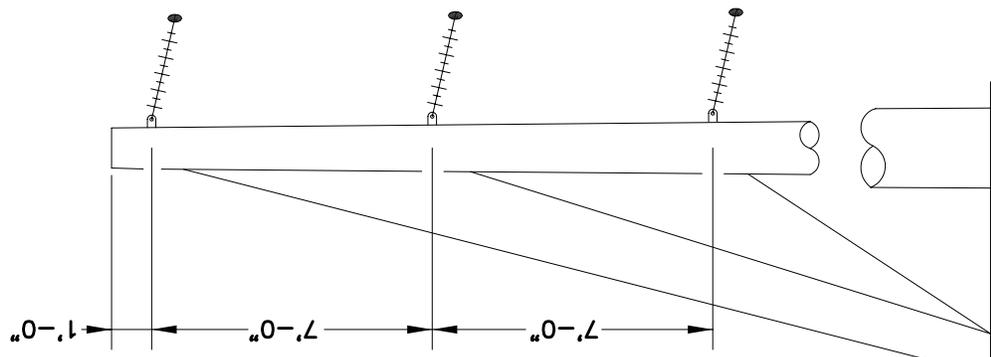
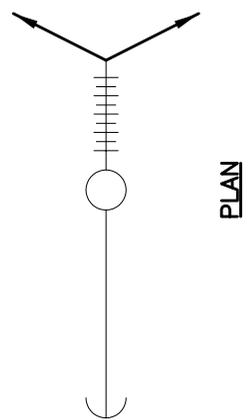
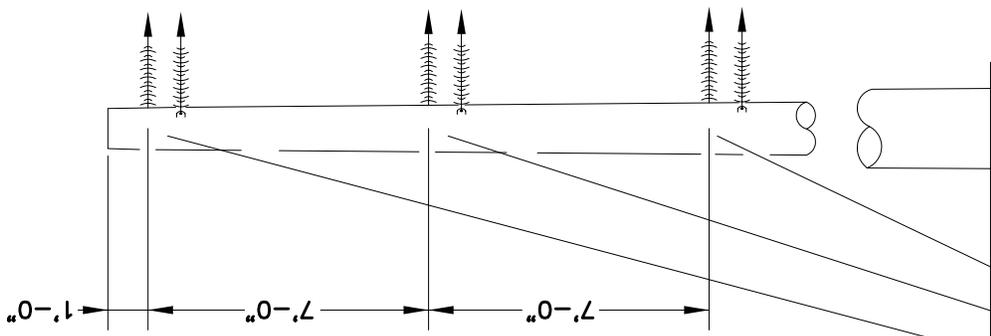
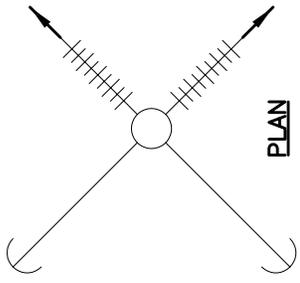
**DEPTER**  
**& ASSOCIATES, INC.**  
 Engineers and Consultants  
 19101 36th AVE. W., SUITE 209  
 LYNNWOOD, WA 98036  
 (425) 672-9651

SOUTHEAST CONFERENCE  
 SOUTHEAST ALASKA  
 INTERTIE STUDY

JUNEAU TO HOONAH INTERTIE  
 PROPOSED ROUTE  
 FIGURE 2-1

REV.	REVISION DESCRIPTION	DATE

DWN BY:	JLK	DSN BY:	JLH	CHK BY:	JLH	DATE:	4/04/03	FILE:	HoonahJuneau	SHEET:	1	REV:	0
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NOT TO SCALE

PETERSBURG TO KAKE INTERTIE - 69KV SINGLE WOOD POLE  
 PREPARED BY: COMMONWEALTH ASSOCIATES INC.

FIGURE 2-2

JUNEAU TO HAWK INLET TO HOONAH

GREENS CK TAP

ALL&P's EXIST 69KV LINE  
JUNEAU

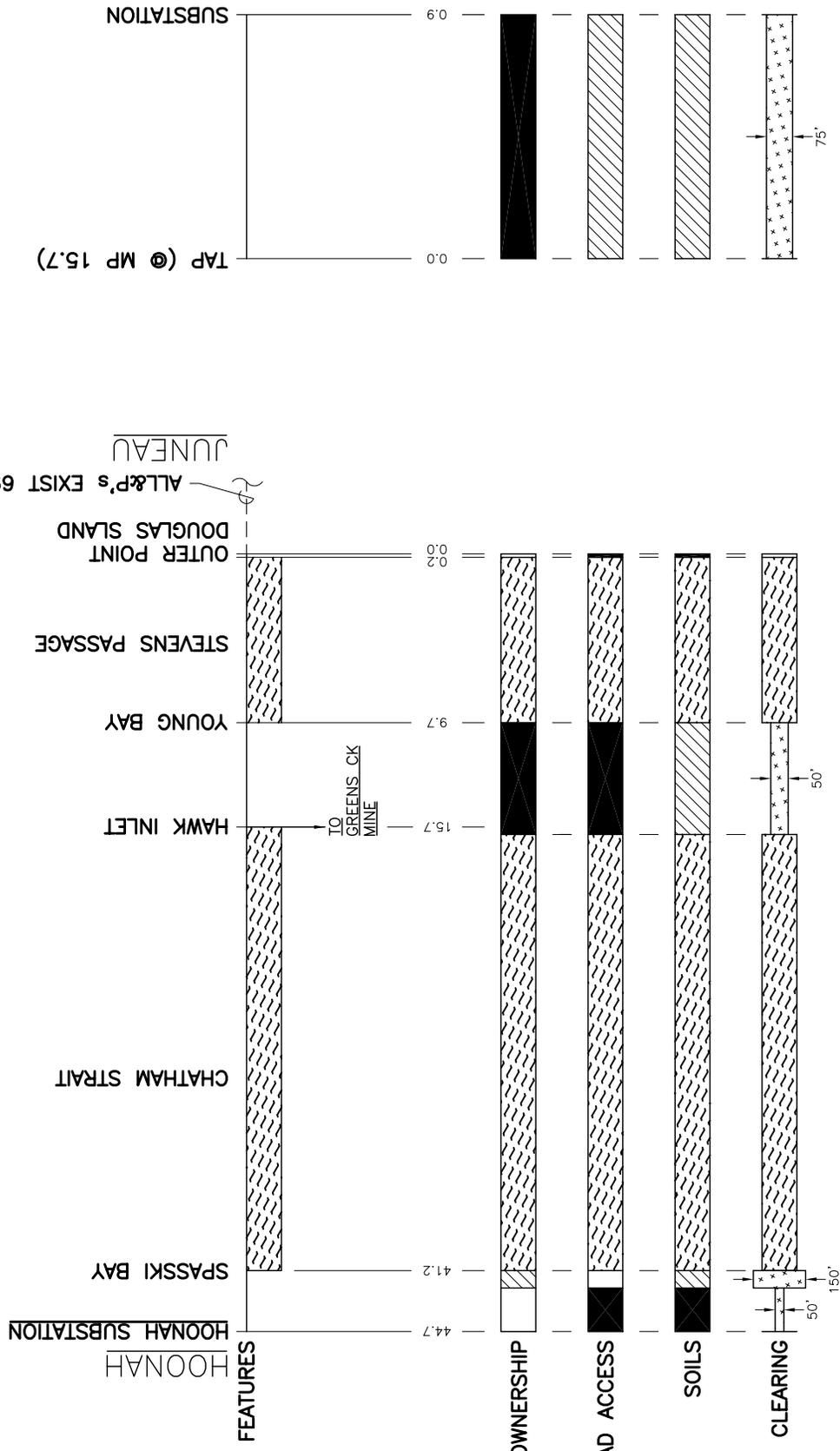
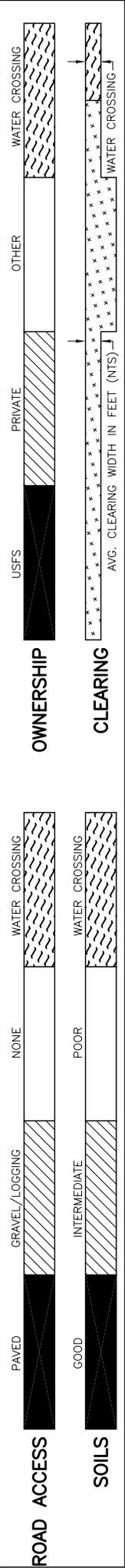


FIGURE 2-3

LEGEND:



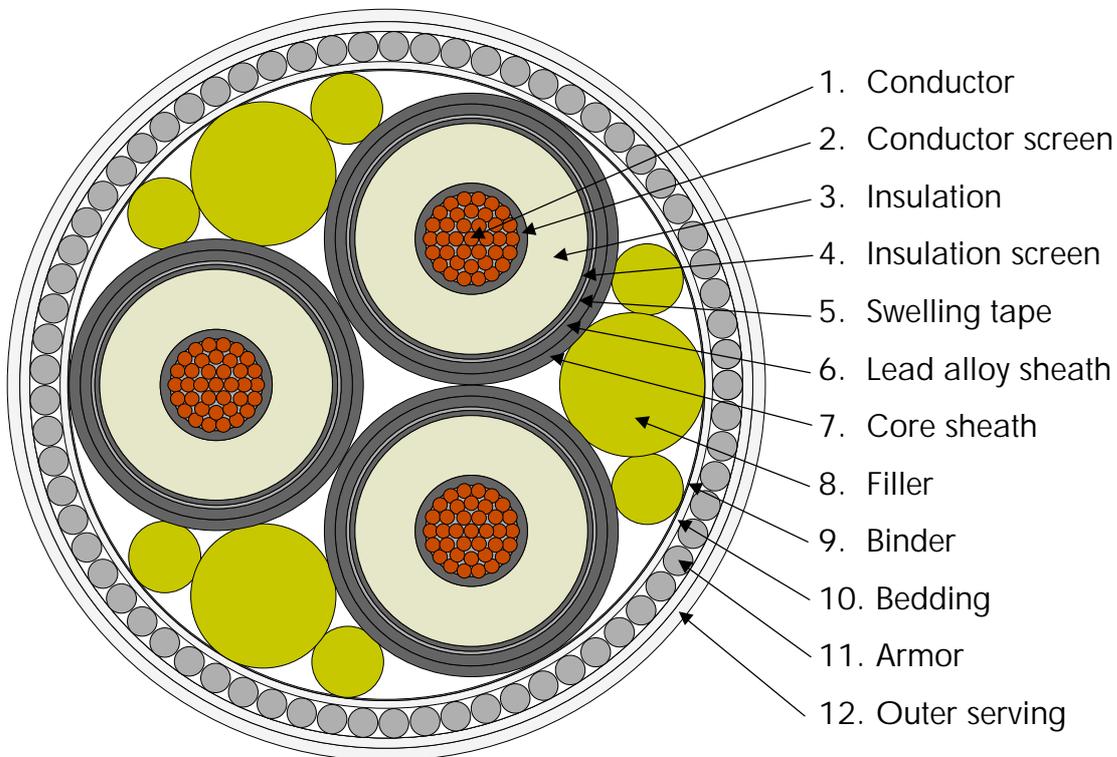
SCALE: 1" = 10 miles



JUNEAU TO HAWKS INLET TO HOONAH & GREENS CK TAP - LINEAR REFERENCE DIAGRAM

PREPARED BY: COMMONWEALTH ASSOCIATES INC.

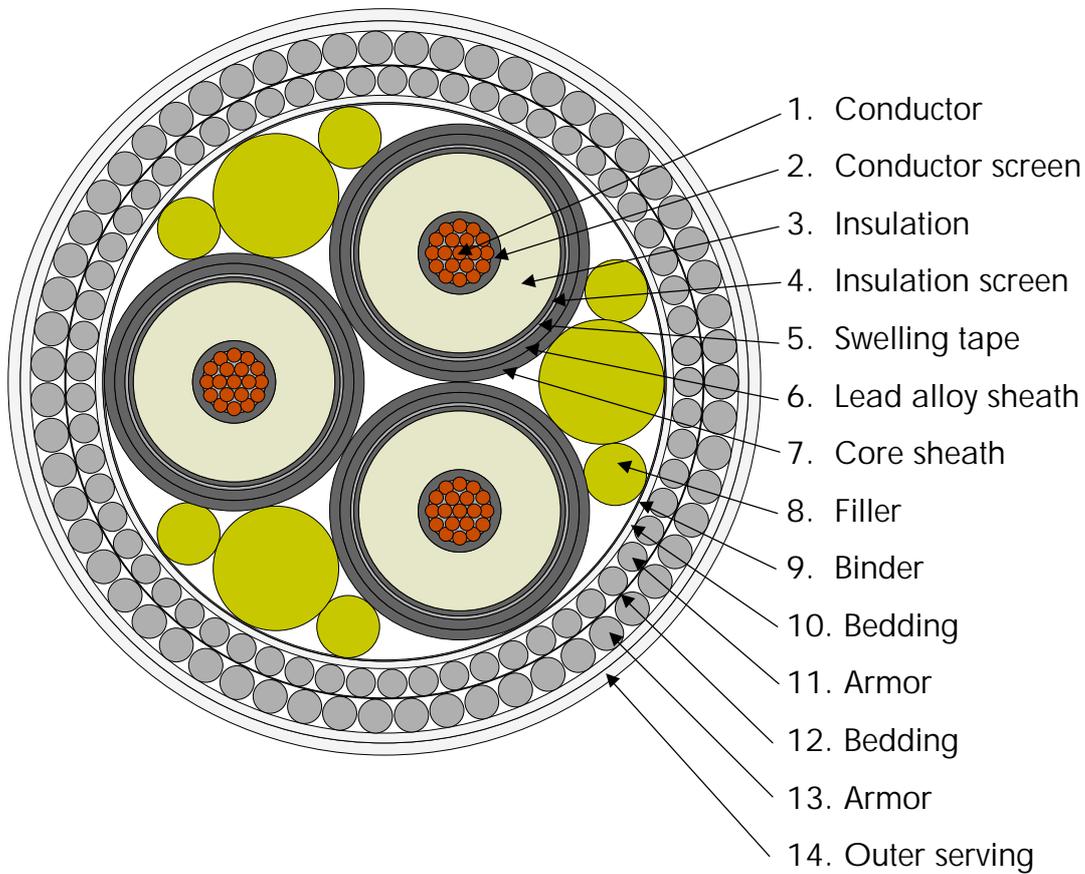
## TKRA 69 kV 3x1x240 mm<sup>2</sup> KQ



Cable weight in air: 45 kg/m

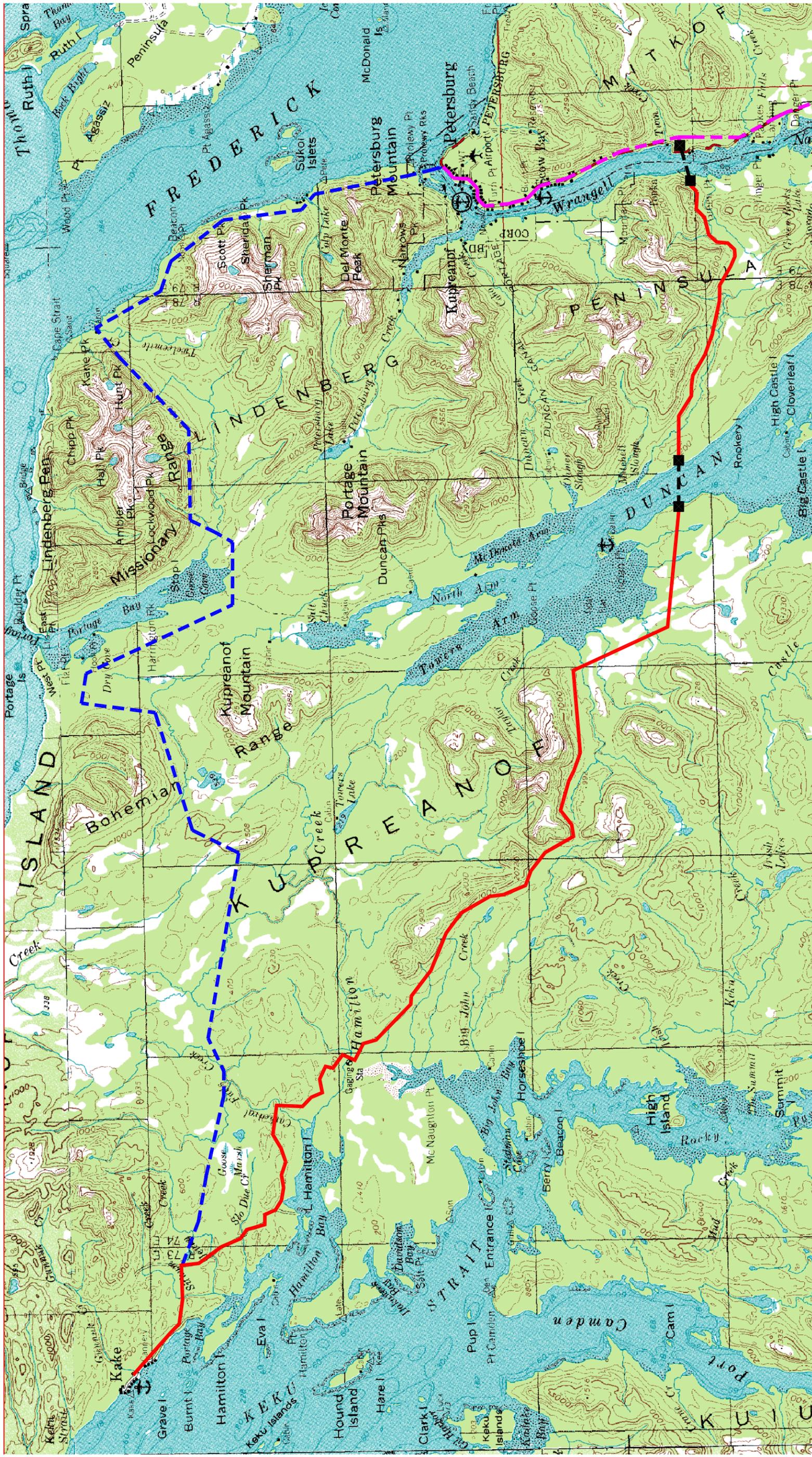
No.	Constituents	Nominal thickness mm	Nominal diameter mm
1	Conductor, stranded copper wires, watertight	37x3.01 <sup>∅</sup>	18.4
2	Conductor screen, semiconducting XLPE		
3	Insulation, XLPE	12.0	46.4
4	Insulation screen, semiconducting XLPE		
5	Semiconducting swellable tape		
6	Lead alloy sheath	2.1	54.2
7	Core sheath, semiconducting polyethylene	2.0	
8	Polypropylene yarn fillers		
9	Binder tape		
10	Bedding, polypropylene yarn and bitumen		
11	Armor, galvanized steel wires	69x6.0 <sup>∅</sup>	
12	Outer serving, polypropylene yarn and bitumen		151

## TKVA 69 kV 3x1x120 mm<sup>2</sup> KQ



Cable weight in air: 55 kg/m

No.	Constituents	Nominal thickness mm	Nominal diameter mm
1	Conductor, stranded copper wires, watertight	19x2.97 <sup>∅</sup>	12.9
2	Conductor screen, semiconducting XLPE		
3	Insulation, XLPE	12.0	40.9
4	Insulation screen, semiconducting XLPE		
5	Semiconducting swellable tape		
6	Lead alloy sheath	2.0	48.5
7	Core sheath, semiconducting polyethylene	1.9	
8	Polypropylene yarn fillers		
9	Binder tape		
10	Bedding, polypropylene yarn and bitumen		
11	Armor, galvanized steel wires	61x6.0 <sup>∅</sup>	
12	Bedding tapes		
13	Armor, galvanized steel wires	59x7.0 <sup>∅</sup>	
14	Outer serving, polypropylene yarn and bitumen		153



LEGEND	
	Proposed Route
	Alternate Route
	Submarine Cable
	Existing Transmission Line
	Submarine Cable Termination



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 LYNNWOOD, WA 98036  
 (425) 672-9651

SOUTHEAST CONFERENCE  
 SOUTHEAST ALASKA  
 INTERTIE STUDY

KAKE TO PETERSBURG INTERTIE  
 PROPOSED ROUTE  
 FIGURE 2-6

REV.	REVISION DESCRIPTION	DATE

DWN BY:	JLK	DSN BY:	JLH	CHK BY:	JLH	DATE:	4/04/03	FILE:	PetersburgKake	SHEET:	1	REV:	0
---------	-----	---------	-----	---------	-----	-------	---------	-------	----------------	--------	---	------	---

PETERSBURG TO KAKE (SOUTHERN ROUTE)

PETERSBURG TAP (NEAR FUR FARM)  
WRANGELL SUBMARINE CROSSING

PETERSBURG

DUNCAN CANAL SUBMARINE CROSSING

DUNCAN CANAL

WEST TURN FROM

START OF LOGGING ROAD

PASS (UNNAMED)

DIVERGENCE

ALTERNATE NORTHERN ROUTE

BOOT LAKE AREA

ALTERNATE SUBSTATION SITE

SUBSTATION AT POWER PLANT

KAKE

51.6 50.0 48.3 40.4 32.4 25.1 19.0 13.3 12.2 1.5 0.0

OWNERSHIP

ROAD ACCESS

SOILS

CLEARING

PAVED

GRAVEL/LOGGING

WATER CROSSING

USFS

PRIVATE

OTHER

WATER CROSSING

GOOD

INTERMEDIATE

WATER CROSSING

CLEARING

AVG. CLEARING WIDTH IN FEET (NTS)

WATER CROSSING

LEGEND:

SCALE: 1" = 10 miles



FIGURE 2-7

PETERSBURG TO KAKE (SOUTHERN ROUTE) - LINEAR REFERENCE DIAGRAM

PREPARED BY: COMMONWEALTH ASSOCIATES INC.