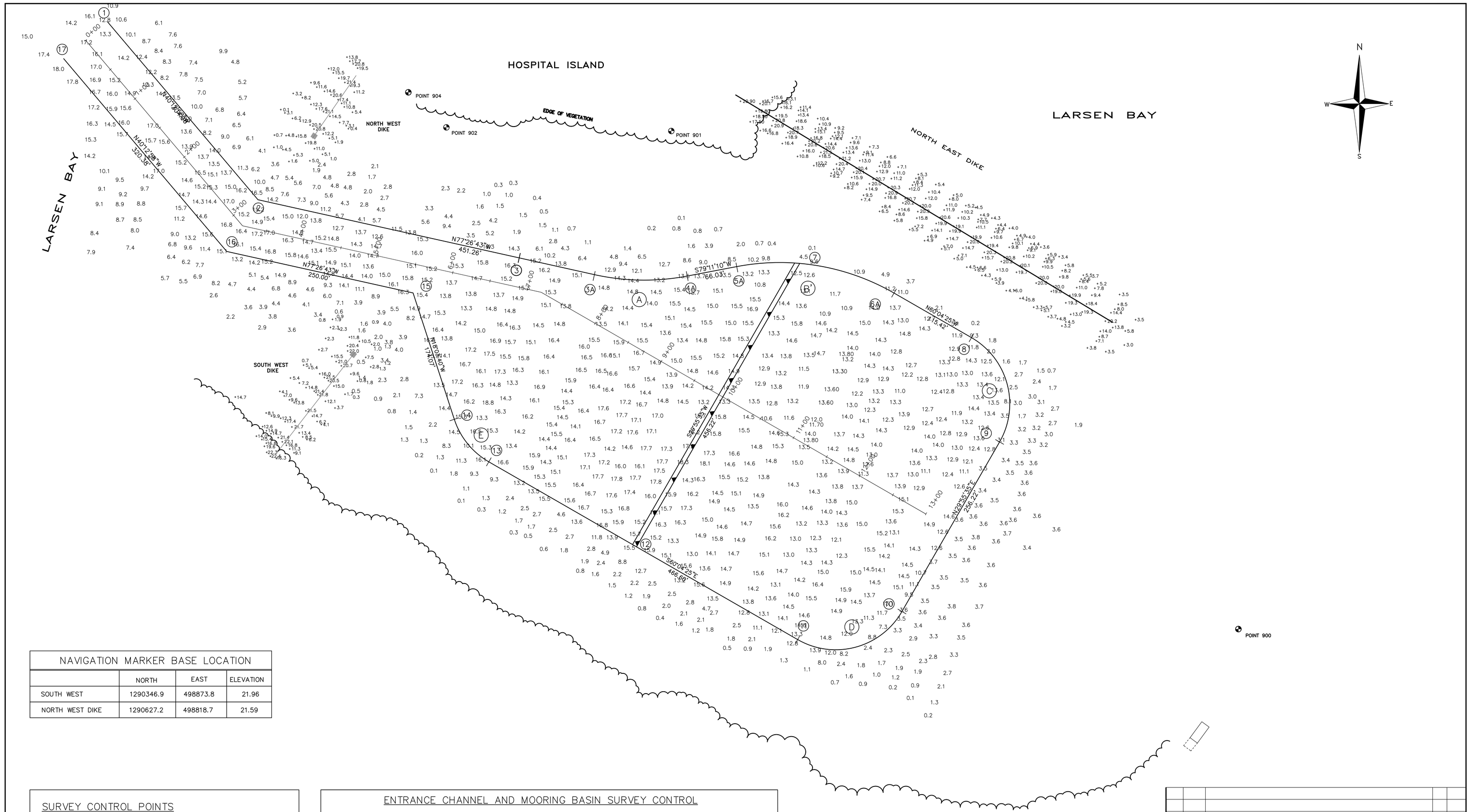
U. S. ARMY



NAVIGATION MARKER BASE LOCATION

	NORTH	EAST	ELEVATION
SOUTH WEST	1290346.9	498873.8	21.96
NORTH WEST DIKE	1290627.2	498818.7	21.59

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
900	1289984. 550000	500030. 490000	25. 71	CNTL\ALCAP/H-1
901	1290636. 780000	499288. 030000	21. 45	CNTL\ALCAP/H-2
902	1290687. 450000	498943. 710000	21. 36	CNTL\ALCAP/H-4
904	1290714. 453331	498878. 305125	18. 85	CNTL\FND. BCMON

SURVEY CONTROL

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE, NAD 27, ZONE 5, IN FEET, HOLDING USC & GS BRONZE DISK "TOPE 1929" AS N 1,293,419.70, E 501,271.91 AND USC & GS BRONZE DISK "COTTON 1929" AS N 1,294,667.15, E 498,095.37.
2. PROJECT HORIZONTAL CONTROL POINTS ARE AK DOT H-1, AK DOT H-2, AND AK DOT H-4, EACH 2 1/2" ALUMINUM CAPS ON 5/8" REBAR, WITH COORDINATES AND LOCATIONS AS SHOWN HEREON.
3. VERTICAL CONTROL IS BASED ON USC & GS BENCH MARK "BM-5 1964" (ELEVATION 19.67 FEET MLLW). THIS ELEVATION IS BASED ON A SPECIAL PURPOSE TIDAL SURVEY BY N.O.S., SEPTEMBER, 1995.
4. PROJECT VERTICAL CONTROL IS AK DOT H-1, A 2 1/2" ALUMINUM CAP ON A 5/8" REBAR HAVING AN ELEVATION OF 25.71 FEET MLLW AND A LOCATION AS SHOWN HEREON.
5. SOUNDINGS ARE IN FEET AND MINUS UNLESS OTHERWISE INDICATED.

ENTRANCE CHANNEL AND MOORING BASIN SURVEY CONTROL

1	N 1290779.63	E 498550.22	BOP
2	N 1290546.47	E 498747.14	Angle Point
3	N 1290470.30	E 499089.18	PC CURVE A
4	N 1290468.45	E 499210.68	PT CURVE A
5	N 1290503.43	E 499393.79	PC CURVE B
6	N 1290491.87	E 499462.44	PT CURVE B
7	N 1290487.44	E 499470.14	
8	N 1290365.86	E 499681.35	PC CURVE C
9	N 1290229.31	E 499718.12	PT CURVE C
10	N 1290007.25	E 499590.30	PC CURVE D
11	N 1289970.47	E 499453.74	PT CURVE D
12	N 1290092.05	E 499242.53	
13	N 1290203.25	E 499049.35	PC CURVE E
14	N 1290258.92	E 499004.17	PT CURVE E
15	N 1290424.41	E 498950.20	Angle Point
16	N 1290478.75	E 498706.18	Angle Point
17	N 1290675.81	E 498539.56	EOP

CURVE	Δ	R	T	L
A	23°22'08"	300.00'	62.04'	122.36'
B	40°44'26"	100'	37.13'	71.11'
C	90°00'00"	100'	100'	157.08'
D	90°00'00"	100'	100'	157.08'
E	42°00'45"	100'	38.40'	73.33'

3A	N 1290448.38	E 499187.61	PC CURVE A
4A	N 1290446.53	E 499309.11	PT CURVE A
5A	N 1290458.92	E 499373.96	PC CURVE B
6A	N 1290424.25	E 499579.92	PT CURVE B

REV.	DATE	DESCRIPTION	BY	APP'D

CONTRACT NO. DACW85-98-G-001
CONTRACTOR SOUTH COAST INC
CITY KETCHIKAN STATE AK

ALASKA, DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: TWA
DRAWN: M.G.
CHECKED: T.W
SUBMITTED:

LARSEN BAY, ALASKA
LARSEN BAY SMALL BOAT HARBOR
1999 POST-DREDGE SURVEY
3,4 SEPTEMBER 1999 BASIN
1,2 DECEMBER 1998 DIKES

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE: 12-01-99
SURVEY NO.:
SCALE: 1" = 50'
SHEET 1 OF 1