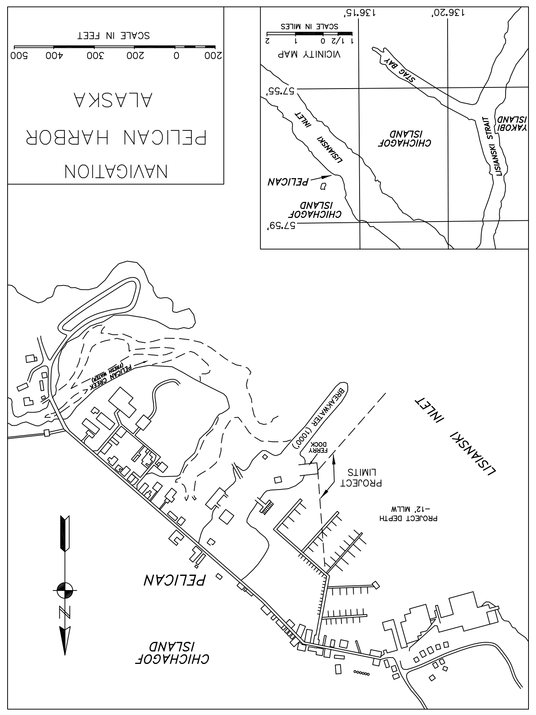

NOTES

1. GRID SYSTEM IS ALASKA STATE PLANE, ZONE 1, IN U.S. SURVEY FEET, HOLDING USC&GS SBC "SAND 1917" AS N 2,244,387.86, E 2,189,720.85, AND USACE "TN-3 1960" AS N 2,246,136.57, E 2,188,594.00.
2. ELEVATIONS ARE IN FEET, BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING USACE "TN-3 1960" AS 17.56', FROM PELICAN HARBOR PLAT DATED 9-25-91.
3. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
4. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
5. DATA ADJUSTMENT WAS CONDUCTED ON MAY 30, 1999. SOUNDINGS WERE OBTAINED WITH A ROSS 950 SURVEYOR/SMART SOUNDER. POSITIONING WAS PROVIDED BY A TRIMBLE AG122 DGPS RECEIVER/ANTENNA OPERATING IN DGPS MODE ON CORRECTIONS BROADCAST FROM A TRIMBLE 4000SSE LOCAL BASE STATION SET AT USACE "TN-3 1960" DEPTHS WERE CORRECTED FOR TIDE USING DATA FROM A VENEER LP TELEMETRY TIDE LEVEL RECORDER SET BY TERRA SURVEYS, LLC. NAVIGATION AND DATA COLLECTION WERE PERFORMED USING HYPACK INTEGRATED SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED UTILIZING OPTICAL INSTRUMENTS AND CONVENTIONAL TRAVERSE TECHNIQUES. VERTICAL CONTROL WAS SURVEYED USING OPTICAL INSTRUMENTS AND DIFFERENTIAL LEVELING TECHNIQUES.
6. THIS SURVEY WAS PERFORMED UNDER CONTRACT NO. DACW85-98-D-0004 BY TERRA SURVEYS, LLC.

VOLUME COMPUTATIONS

	Project Depth -12' MLLW	
MINIMUM PAY LINE	(-12' MLLW)	87 (cubic yards)
Between MINIMUM PAY LINE and MAXIMUM PAY LINE (-13' MLLW)		65 (cubic yards)
TOTAL		152 (cubic yards)

* Volumes are within Project Limits and do not include SIDE SLOPES.

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
SAND, 1917	2,244,387.86	2,189,720.85	–	USC&GS SBC
TN-3, 1960	2,246,136.57	2,188,594.00	17.56	USACE SBC
PL-1	2,246,911.44	2,189,218.20	18.49	3/8" REBAR
PH-1,1999	2,246,824.50	2,189,144.80	17.88	DOMED BC (SET THIS SURVEY)
PH-2,1999	2,247,639.64	2,188,160.22	47.33	DOMED BC (SET THIS SURVEY)

PROJECT LIMITS

CORRR	NORTHING	EASTING
1	2,246,250	2,188,483
2	2,246,581	2,188,733
3	2,247,170	2,188,677

NAVIGATION AIDS

DESCRIPTION	NORTHING	EASTING
1 – DOLPHIN	2,246,523	2,188,676
2 – DOLPHIN	2,246,573	2,188,545
3 – DOLPHIN	2,246,590	2,188,634
4 – DOLPHIN	2,246,654	2,188,724

CONTRACTOR TERRA SURVEYS, LLC. CONTRACT NO. DACW85-98-D-0004
CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: DES2
DRAWN: DJB
CHECKED: TSN
SUBMITTED:
RECOMMENDED: APPROVED: DATE:
PROJECT MANAGER CHIEF OPERATIONS-REGULATORY BRANCH

PELICAN, ALASKA
PELICAN HARBOR
MAY 30, 1999
CONDITION SURVEY

SURVEY NO. 1823-99
SCALE: 1" = 50'
SHEET 1 OF 1

U. S. ARMY CORPS OF ENGINEERS