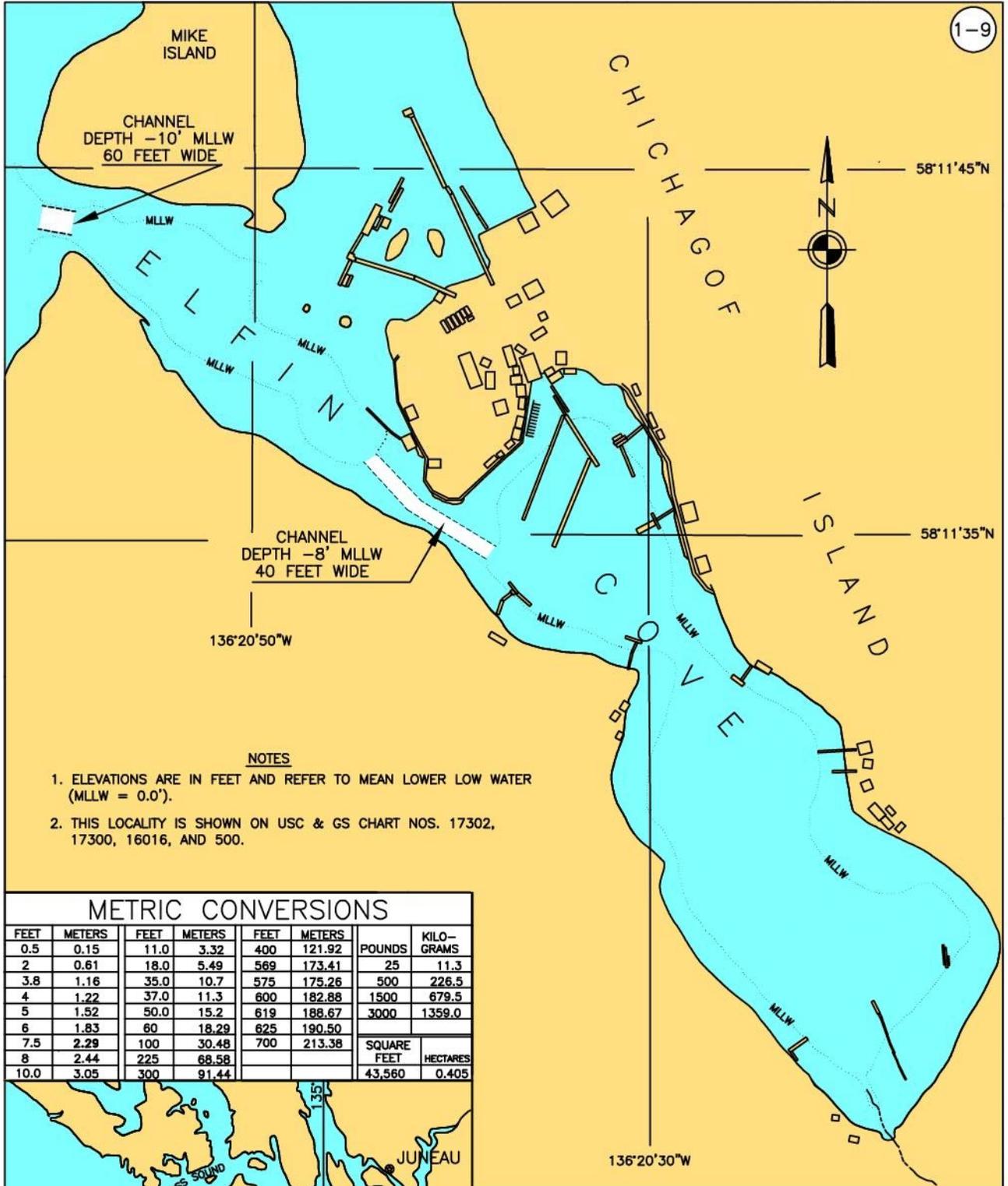


# **ELFIN COVE**



**NOTES**

1. ELEVATIONS ARE IN FEET AND REFER TO MEAN LOWER LOW WATER (MLLW = 0.0').
2. THIS LOCALITY IS SHOWN ON USC & GS CHART NOS. 17302, 17300, 16016, AND 500.

**METRIC CONVERSIONS**

FEET	METERS	FEET	METERS	FEET	METERS	POUNDS	KILO-GRAMS
0.5	0.15	11.0	3.32	400	121.92		
2	0.61	18.0	5.49	569	173.41	25	11.3
3.8	1.16	35.0	10.7	575	175.26	500	226.5
4	1.22	37.0	11.3	600	182.88	1500	679.5
5	1.52	50.0	15.2	619	188.67	3000	1359.0
6	1.83	60	18.29	625	190.50		
7.5	2.29	100	30.48	700	213.38		
8	2.44	225	68.58			SQUARE FEET	HECTARES
10.0	3.05	300	91.44			43,560	0.405

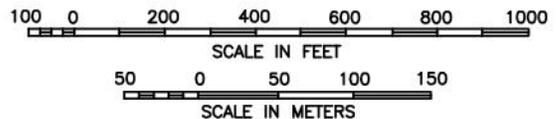


**VICINITY MAP**



**ELFIN COVE ALASKA**

REVISED 2003



**ELFIN COVE, ALASKA**  
(CWIS NO. 72793)

Condition of Improvement 30 September 2007

**AUTHORIZATION:** Rivers and Harbors Act, 2 March 1945 (House Doc. 579, 76th Congress, 3rd Session) as adopted, provides for an outer entrance channel 60 feet wide and 10 feet deep MLLW, and an inner entrance channel 40 feet wide and 8 feet deep MLLW.

<b>EXISTING PROJECT:</b>	<u>LENGTH</u>	<u>DEPTH</u>	<u>WIDTH</u>
• Outer Channel . . . . .	300 ft	-10 ft	60 ft
• Inner Channel . . . . .	574 ft	-8 ft	40 ft

**PROJECT USAGE:** Elfin Cove is mainly a harbor-of-refuge that also supports a small local fleet of commercial fishing vessels. It is one of two protected harbors in the vicinity of the busy fishing grounds of Cross Sound. The channels give all tide access to a natural landlocked anchorage basin of approximately 50 acres that is almost totally shielded from the wind. Three hundred small boats operating in the vicinity seek shelter from storms and obtain supplies at Elfin Cove.

**PROGRESS OF WORK:**

- 1957 - Dredging of the inner channel begins in November.
- 1958 - New work continues with dredging of the outer channel beginning in April. The project is successfully completed in May. Removal of 2,730 cubic yards of rock and 2,146 cubic yards of common material is reported.
- 1992 - A condition survey is performed in July.
- 2003 - A condition survey is conducted in May. Vertical and oblique aerial photography is also taken in May.
- 2007 - The latest condition survey is conducted in May.

<b>COST TO DATE:</b>	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
	\$ 154,191	\$ 200,897	\$ 355,088

<b>RANGE OF TIDE:</b>	<u>Mean Range</u>	<u>Diurnal Range</u>	<u>Extreme Range</u>
	8.6'	10.9'	19.0'

**CONTROLLING DEPTH:** For the Outer Channel a depth of -7.9 feet MLLW controls and for the Inner Channel a depth of -5 feet MLLW controls, May 2007.

## ELFIN COVE, ALASKA



Oblique aerial view looking toward the inner harbor, May 2003.



View encompassing both the outer and inner federal channels, May 2003.