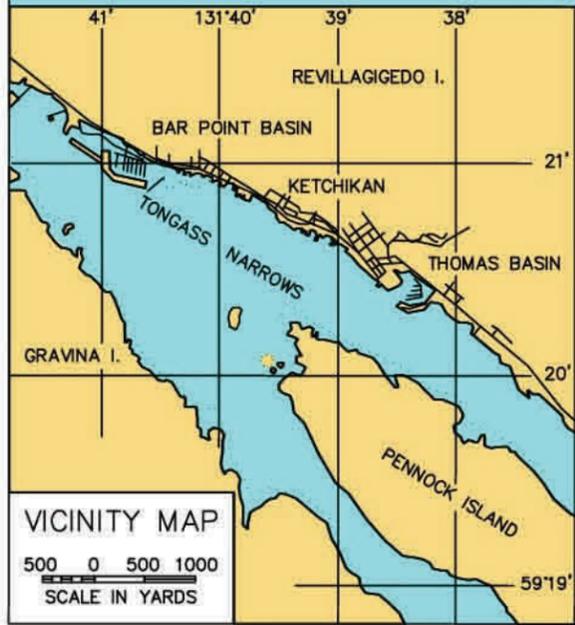
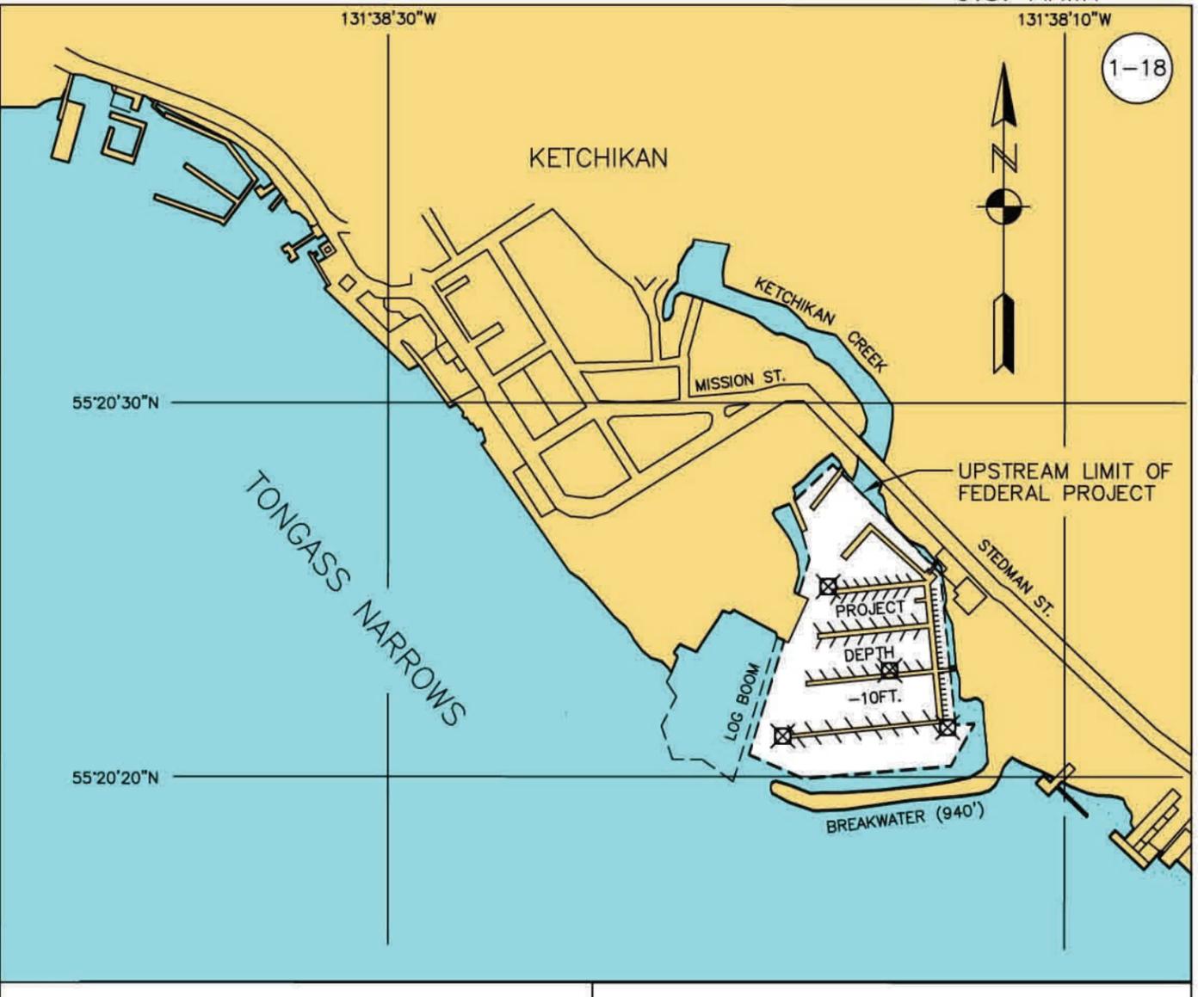
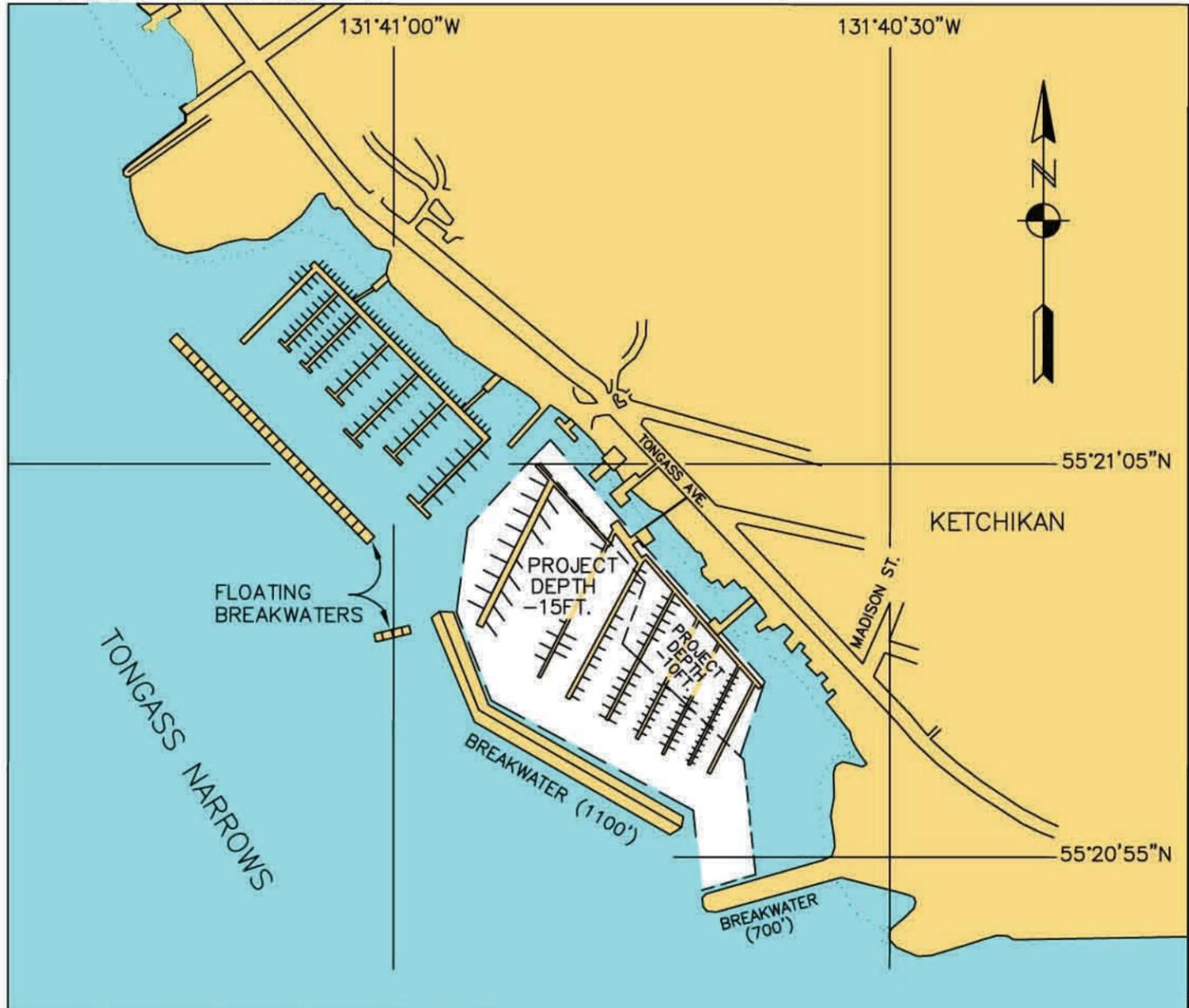
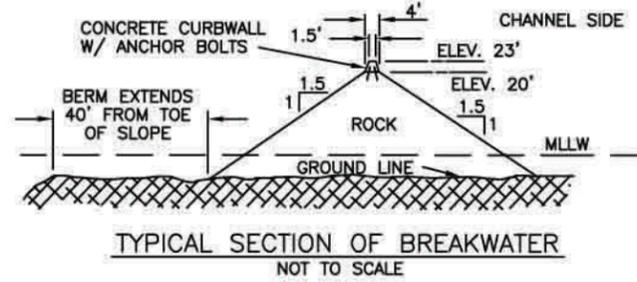
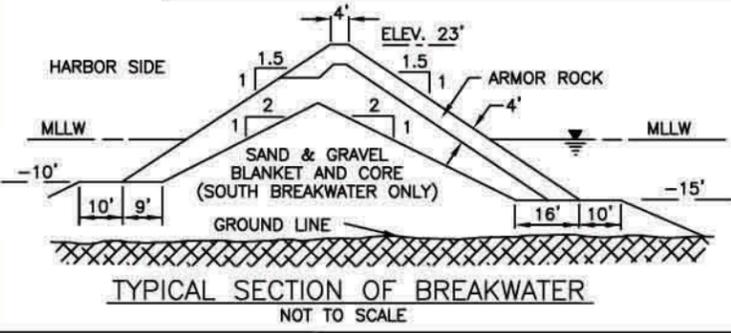
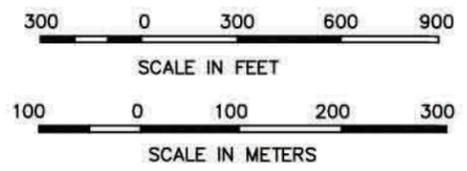


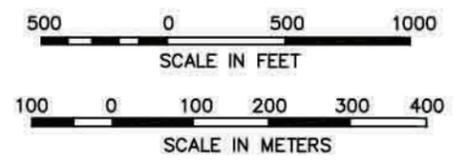
## **KETCHIKAN HARBOR**



BAR POINT BASIN



THOMAS BASIN



- NOTES**
1. ELEVATIONS AND DEPTHS ARE IN FEET AND REFER TO MEAN LOWER LOW WATER (MLLW = 0.0').
  2. THIS LOCALITY IS SHOWN ON USC & GS CHART NOS. 17430, 17420, & 16013.

**LEGEND**  
 BOTTOM SAMPLE LOCATION

**KETCHIKAN HARBOR ALASKA**  
 BAR POINT AND THOMAS BASINS  
 Revised 1996  
 SCALES AS SHOWN

**KETCHIKAN, ALASKA**  
 (Thomas and Bar Point Basins)  
 (CWIS NOS. 00631 & 87071)

Condition of Improvement 30 September 2007

**AUTHORIZATION:** (1) Rivers and Harbors Act, 3 July 1930 (House Doc. 113, 70th Congress, 1st Session) as adopted, provides for construction of a stone breakwater with concrete cap, 940 feet in length, to protect the harbor in the vicinity of Ketchikan Creek, and dredging the protected area (11.35 acres) to a depth of -10 feet MLLW; (2) Rivers and Harbors Act, 2 September 1954 (House Doc. 501, 82nd Congress, 2nd Session) provides for the dredging of an additional small boat basin at Bar Point, 17.91 acres in area, to depths of -10 and -15 feet MLLW, and construction of three rock breakwaters 700, 1,100 and 450 feet in length, topped by concrete gravity walls.

<b>EXISTING PROJECT:</b>	<u>LENGTH</u>	<u>DEPTH</u>	<u>WIDTH</u>
• Thomas Basin . . . . .	11.35 acres	-10 ft	N/A
• Breakwater (Thomas Basin) . . . . .	940 ft		
• Bar Point Basin . . . . .	17.91 acres	-10,-15 ft	N/A
• Southeast Breakwater . . . . .	700 ft		
• West Breakwater . . . . .	1100 ft		
• Floating Breakwater . . . . .	963 ft		
• Floating Breakwater . . . . .	120 ft		

**PROJECT USAGE:** Thomas Basin and Bar Point Harbor are used as a base of operations for commercial fishing and are capable of accommodating 300 and 520 vessels respectively. In addition, the harbors are used by more than 100 transient fishing boats as a seasonal base of operations.

**PROGRESS OF WORK:**

- 1933 - The small boat basin at Ketchikan Creek, Thomas Basin, is completed.
- 1950 - Maintenance dredging in Thomas Basin is begun in June and finished in FY 1951.
- 1957 - Construction of Bar Point Basin begins in November with work on the Southeast Breakwater. The concrete gravity walls have been deleted during design and compensated for by increased breakwater elevation.
- 1958 - Bar Point Basin is successfully completed in November.
- 1960 - Thomas Basin is dredged by contract over the summer.
- 1964 - Maintenance dredging in Thomas Basin begins in July and is completed in August with the removal of 24,316 cubic yards. A controlling depth of -14 feet MLLW is reported.
- 1974 - A contract for maintenance dredging in Thomas Basin is awarded in June and completed in October with 2,530 cubic yards of material removed.
- 1976 - Repair of the rock breakwater at Thomas Basin begins in October and is completed in November.
- 1978 - Under Section 107 of the River and Harbor Act, 14 July 1960, as approved on 29 June 1978, Bar Point Harbor expansion is authorized for the construction and placement of 2 concrete floating breakwaters of 963 and 120 feet to enclose a basin of about 25 acres.

**KETCHIKAN, ALASKA** (continued)

30 September 2007

- 1979 - Work begins on the Bar Point Harbor expansion in April. The 450 foot breakwater is subsequently de-authorized in November.
- 1980 - After repair of wind damage, the floating breakwaters are completed in place in April.
- 1994 - The latest condition survey of both harbors is performed in January and February. Sampling and testing is carried out for Thomas Basin. The U.S. Navy is hired under contract to inspect the floating breakwaters at Bar Point Harbor.
- 1996 - Maintenance dredging is completed at Thomas Basin in February with the removal of 8,678 cubic yards. The Navy is contracted to rehabilitate the floating breakwaters at Bar Point.
- 2001 - Condition surveys of both harbors are conducted with multi-beam techniques in April.
- 2003 - Anchor blocks for the floating breakwaters at Bar Point Harbor are located by survey.
- 2004 - Condition surveys of Thomas Basin and Bar Point Harbor are conducted in July.
- 2005 - Aerial photography is taken of both harbors in April.
- 2007 - The most recent condition surveys of Thomas Basin and Bar Harbor South are conducted in May.
- 2008 - The floating breakwaters at Bar Point Harbor were inspected by the U.S. Army dive team.
- 2009 - Repair to the floating breakwater by the Army dive team includes realignment/replacing the wire tension ropes, replaced missing and badly corroded anchor chains, repositioned anchor blocks, adjusted slack in anchor chains, replaced wooden fender system, and repaired concrete damage.

<b>COST TO DATE:</b>	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
United States Funds	\$ 4,792,227	\$1,499,150	\$ 6,291,377
Contributed Funds	\$ 2,345,718	-0-	\$ 2,345,718
Total Costs	\$ 7,137,945	\$1,499,150	\$ 8,637,095
<b>RANGE OF TIDE:</b>	<u>Mean Range</u> 12.9'	<u>Diurnal Range</u> 15.3'	<u>Extreme Range</u> 26.0'

**CONTROLLING DEPTH:** Bar Point Harbor: A depth of -14.5 feet MLLW controls in the -15 foot maneuvering area; for the -10 foot area some minor shoaling is present along the northern limit but should not impact local traffic. Thomas Basin: A depth of -8.1 feet MLLW controls for the transient float in the northern area near Ketchikan Creek, otherwise project depth is effectively available throughout most of the basin, May 2007.

# **KETCHIKAN THOMAS AND BAR POINT HARBORS, KETCHIKAN, ALASKA**



**Ketchikan, Bar Point Harbor, 27 April 2005**



**Ketchikan, Thomas Basin, 27 April 2005**