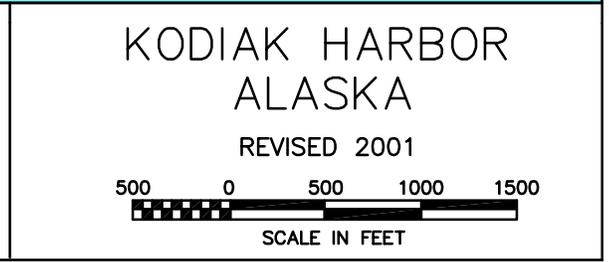
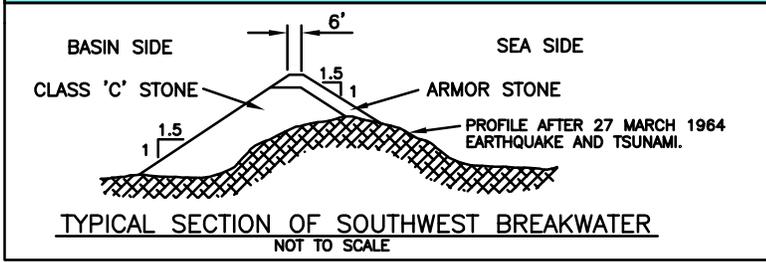
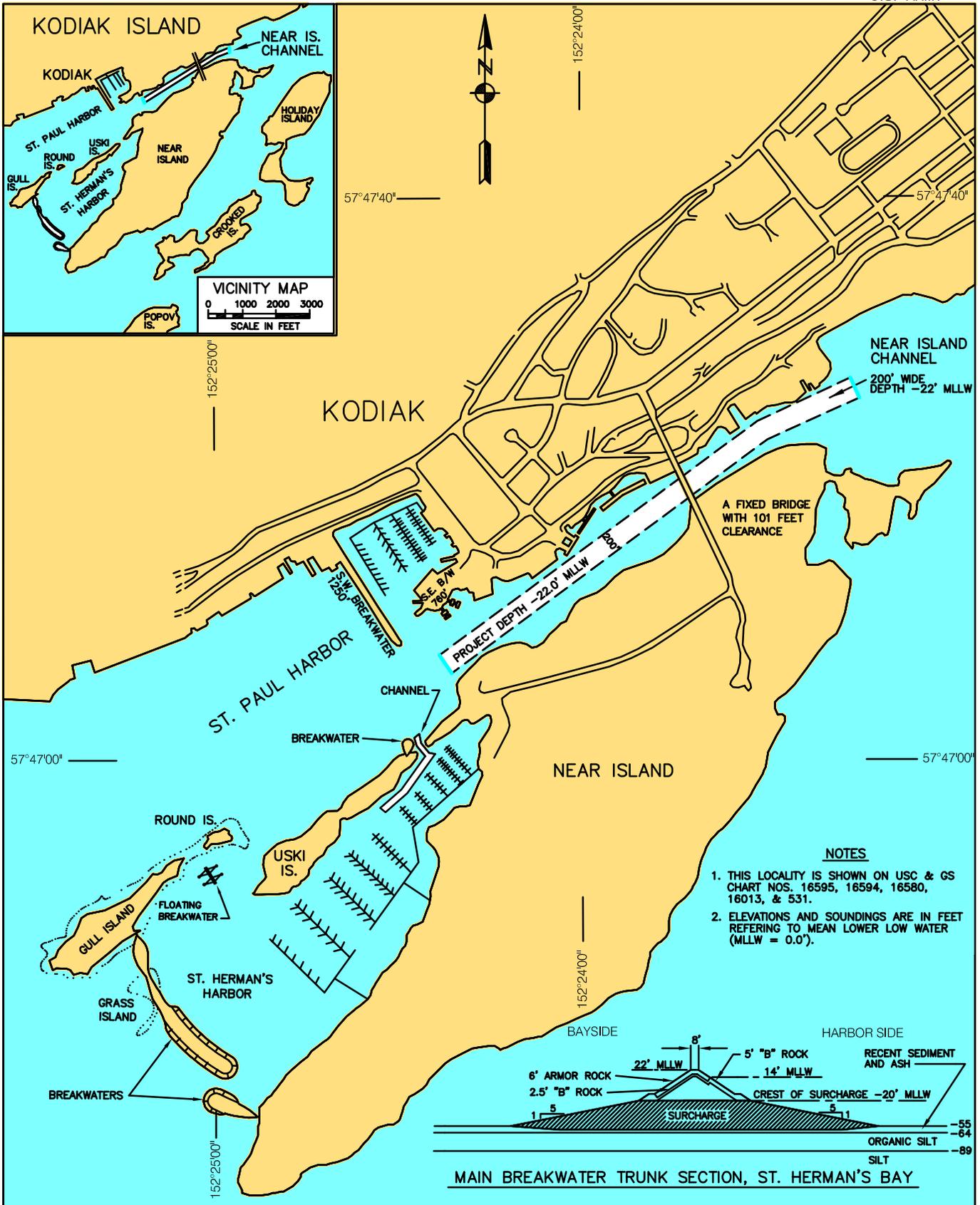


KODIAK HARBOR



KODIAK HARBOR, ALASKA
Near Island Channel & St. Herman's Harbor, Breakwaters, and Channel
 (CWIS NOS. 72753, 10168, & 320418)

Condition of Improvement 30 September 2012

AUTHORIZATION: (1) Rivers and Harbors Act, 30 August 1935 (House Doc. 208, 72nd Congress, 1st Session) as adopted, provides for a channel between Near Island and Kodiak Island at a width of 200 feet and a depth of 22 feet below MLLW with additional width at the wharves. (2) Rivers and Harbors Act, 3 September 1954 (House Doc. 465, 83rd Congress, 2nd Session) as adopted, provides for a small boat basin of 11.7 acres at depths of 8 and 12 feet below MLLW, protected by two rock breakwaters of 780 and 1,250 feet in length. (3) Section 202 of Public Law 99-662 (Senate Doc. 6, 96th Congress, 1st Session) 17 November 1986, and Section 102 of the Water Resource Development Act of 1990 (Public Law 101-640, 101st Congress) 28 November 1990, provide for a breakwater 1900 feet long with an entrance channel 930 feet long and 20 feet deep to serve 45 acres of moorage in St. Herman's Bay. (4) Section 5033 of the Water Resources Development Act of 2007 provided authorization stating, "The Secretary shall carry out, on an emergency basis, the necessary removal of rubble, sediment, and rock impeding the entrance to the St. Herman and St. Paul Harbors, Kodiak, Alaska, at a Federal cost of \$2,000,000."

EXISTING PROJECT:	<u>LENGTH</u>	<u>DEPTH</u>	<u>WIDTH</u>
Near Is. Channel & St. Paul Harbor			
• Channel	4000 ft	-22 ft	200 ft
• Southeast Breakwater	780 ft		
• Southwest Breakwater	1250 ft		
• Basin (maintained by others)	11.7 acres		
St. Herman's Harbor			
• Main Breakwater	1500 ft		
• Stub Breakwater	430 ft		
• North Breakwater	100 ft		
• North Entrance Channel	250 ft	-12 ft	100 ft
• Maneuvering Channel	730 ft	-12 ft	60 ft

PROJECT USAGE: Kodiak, the third largest commercial fishing port in the United States, is a world leader in king crab production and ranks among the top four national ports in halibut production. Saint Paul Harbor has protected moorage for approximately 200 vessels and Saint Herman's holds about 900 vessels in the summer and 650 over the winter. Kodiak is also an important cargo port and transshipment center. Although there are two other small protected basins, one at nearby Old Harbor (see project 1-26), and one at Port Lions (see project 1-41) on the north side of Kodiak Island, this port is the only large full service harbor-of-refuge between Cook Inlet and the Shumagin Islands.

PROGRESS OF WORK:

1940 - Additional width through the channel at the wharves is deleted from the project (Rivers and Harbors Act, 17 October 1940, House Doc. 332, 76th Congress, 1st Session).

KODIAK HARBOR, ALASKA (continued)

30 September 2012

- 1942 - The channel is dredged in front of Erskine wharf providing a project width of 170 feet beginning in November with suitable material used in construction of the southwest breakwater.
- 1955 - The Near Is. Channel width is increased to 190 feet by dredging and rock removal from June through November. The boat basin is to be maintained by local interests.
- 1957 - Construction of the southeast breakwater begins in October; dredging of the small boat basin
- 1958 - The southeast breakwater is completed in April. Removal of ledge rock from the entrance channel completes the project in July.
- 1964 - The earthquake of 27 March 1964 causes major damage to the small boat harbor. Repairs to both breakwaters begin in May and are completed in August. Due to subsidence caused by the earthquake, the controlling depth is reportedly 5 feet below project depth for the channel and the basin.
- 1973 - Repairs to the tip of the southeast breakwater are accomplished from February through March.
- 1991 - A General Design Memorandum and plans & specifications are being developed for construction of new breakwaters and a second entrance channel at St. Herman's Bay, Near Island.
- 1992 - A condition survey of Near Island channel is conducted in June.
- 1995 - Two new breakwaters are under construction between Near Island and Gull Island to protect the extensive float system at St. Herman's Bay.
- 1997 - Near Island Channel is surveyed under contract. Construction is completed on the (3) new rubble-mound breakwaters protecting St. Herman's Bay, and the north entrance and maneuvering channels are dredged.
- 2002 - Multi-beam survey techniques are used to check the three entrances to St. Herman's Harbor, the condition of Near Is. Channel, and the entrance to the small boat basin in Saint Paul's Harbor.
- 2006 - Project condition surveys and aerial photography are done for Near Is. Channel and Saint Herman's Harbor.
- 2009 - A tidal datum update and project condition survey are conducted in June for Near Is. Channel, St. Herman's Harbor, and St. Paul Harbor. The project limits for Near Is. Channel are adjusted to align with the wharves and other structures.
- 2010 - Sediment characterization and contract plans and specifications began in support of dredging rocks and sediment from the St. Paul and St Herman's harbors.
- 2012 - A maintenance dredging contract was awarded to Western Marine Construction to mechanically remove rock in the entrance channels of St. Herman's and St. Paul Harbors.

Continues on page 1-24b

KODIAK HARBOR, ALASKA (continued)

30 September 2012

COST TO DATE:

GI PED Appropriation	\$1,318,308	CG Contributed Costs 10168	\$1,843,166
GI PED Costs 10168	\$1,318,308	O&M Appropriation 10168	\$118,586
CG Appropriation 10168	\$15,262,547	O&M Costs 10168	\$118,586
CG Costs 10168	\$17,153,750	O&M Appropriation 320418	\$6,021,380
CG Contributed Appropriations 10168	\$1,843,166	O&M Costs 320418	\$294,403

RANGE OF TIDE:Mean Range
6.6'Diurnal Range
8.5'Extreme Range
17.0'

CONTROLLING DEPTH: Project depth is effectively available throughout the length of Near Island Channel, July 2009. The majority of the north entrance channel to St. Herman's Harbor is above project depth, with -2.9 feet MLLW controlling near Corner 11 in July 2009.

St. Herman's Harbor



Aerial oblique view of St. Herman's Harbor in the summer of 2009.

St. Paul Harbor, Kodiak



Aerial oblique photo of the small boat harbor in the summer of 2009.



View of the harbor and southern entrance to Near Island Channel in the summer of 2009.

Near Island Channel



Northeast entrance to Near Island Channel in the summer of 2009.



Southwest entrance to Near Island Channel in the summer of 2009.