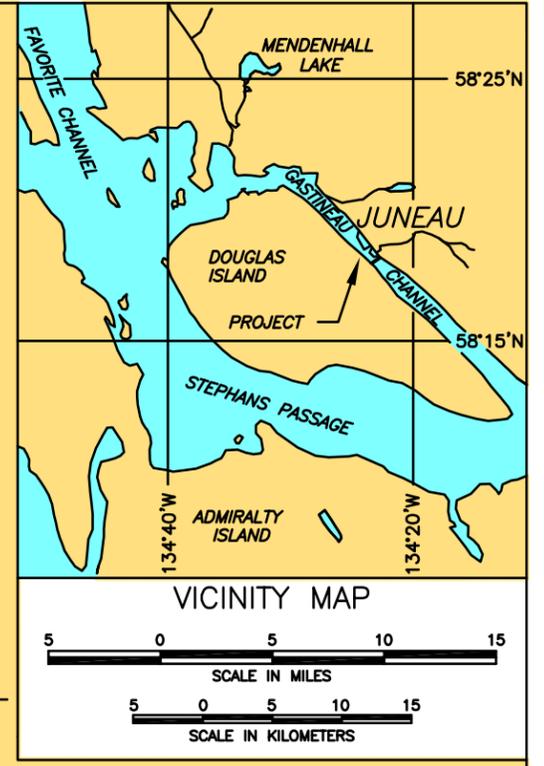
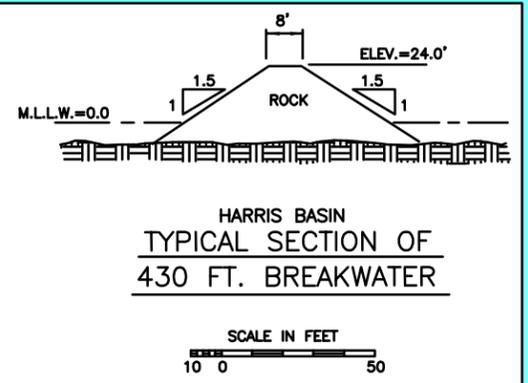
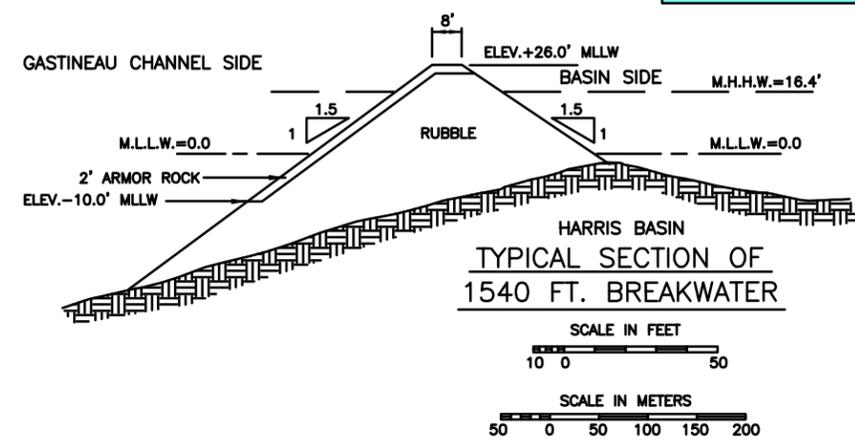
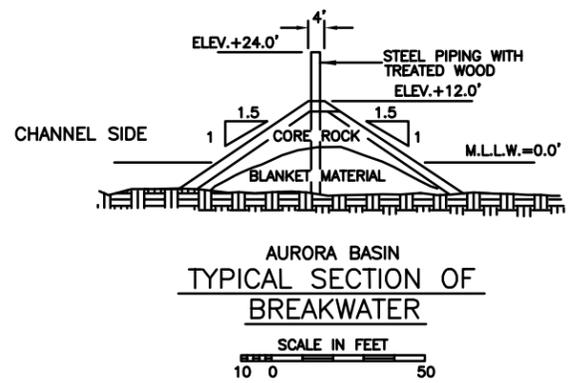
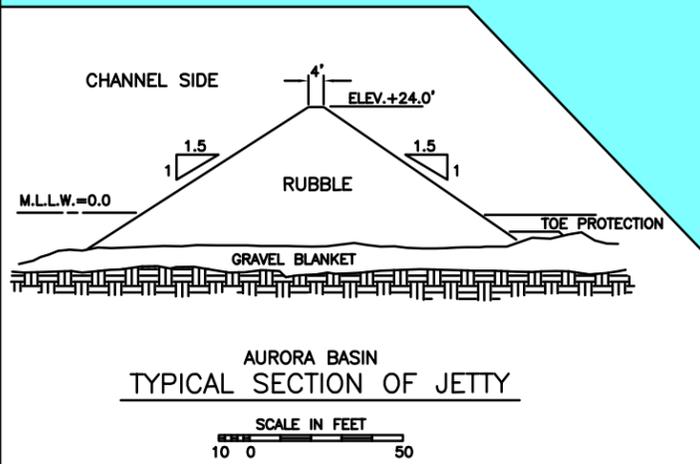
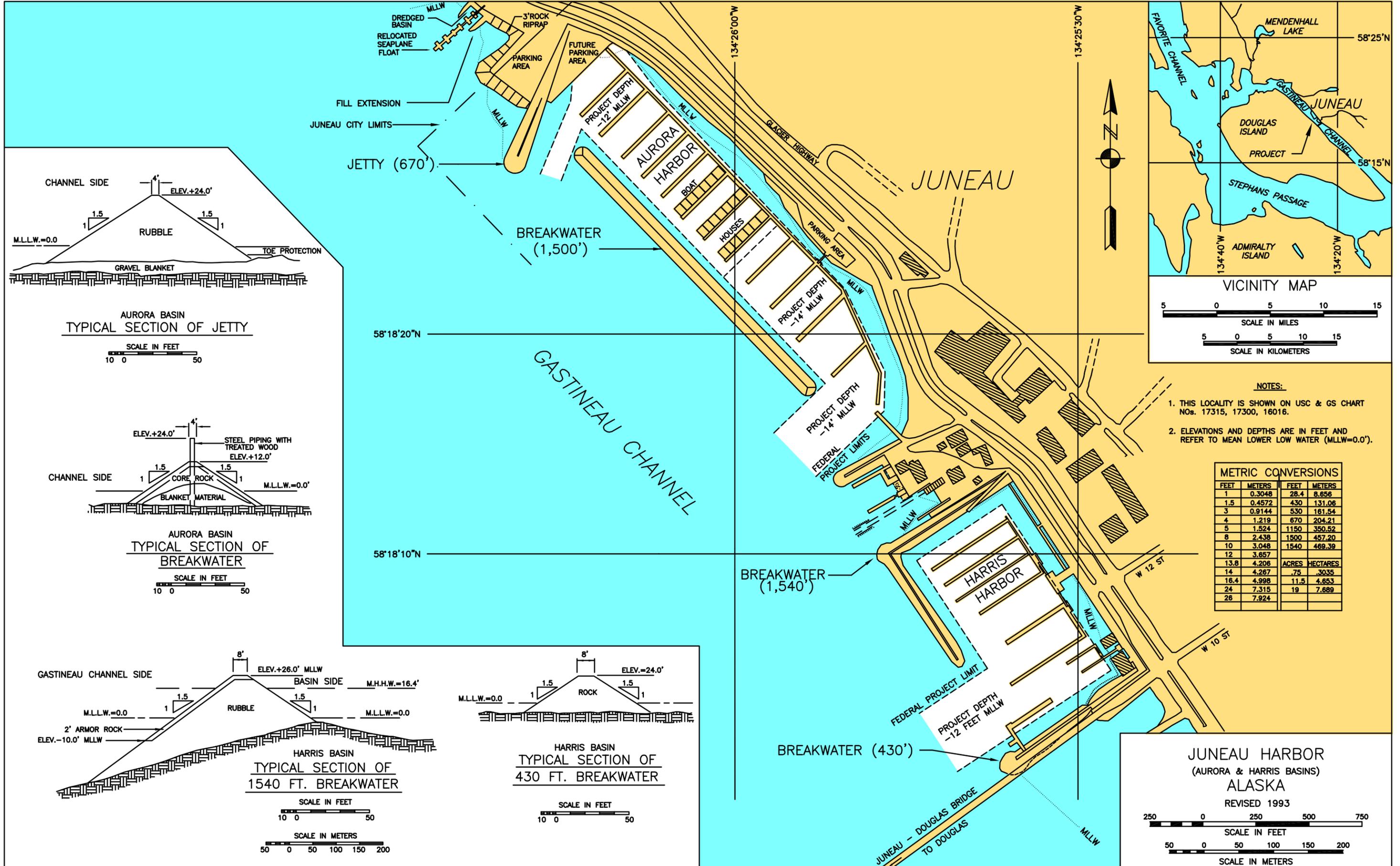
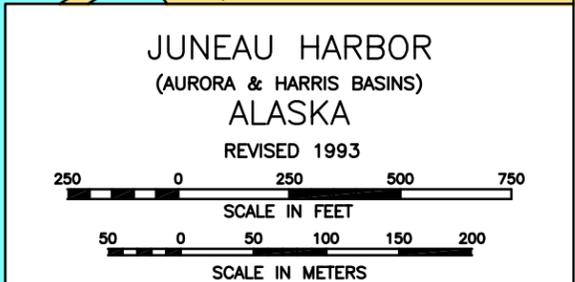


**JUNEAU HARBORS
(AURORA & HARRIS)**



- NOTES:**
1. THIS LOCALITY IS SHOWN ON USC & GS CHART NOs. 17315, 17300, 16016.
 2. ELEVATIONS AND DEPTHS ARE IN FEET AND REFER TO MEAN LOWER LOW WATER (MLLW=0.0').

FEET		METERS	
1	0.3048	28.4	8.656
1.5	0.4572	430	131.06
3	0.9144	530	161.54
4	1.219	670	204.21
5	1.524	1150	350.52
8	2.438	1500	457.20
10	3.048	1540	469.39
12	3.657		
13.8	4.208	ACRES HECTARES	
14	4.267	.75	.3035
18.4	4.998	11.5	4.653
24	7.315	19	7.689
28	7.924		



JUNEAU, ALASKA
 (Aurora and Harris Basins)
 (CWIS NOS. 20960 & 72797)

Condition of Improvement 30 September 2009

AUTHORIZATION: (1) Rivers and Harbors Act, 26 August 1937 (House Doc. 249, 75th Congress, 1st Session) as adopted, provides for a small boat basin 11.5 acres in area, just north of the Juneau-Douglas bridge, by construction of two rock mound breakwaters of 430 and 1,540 feet in length, and by dredging to a depth of -12 feet MLLW; (2) Rivers and Harbors Act, 3 July 1958 (House Doc. 286, 84th Congress, 2nd Session) as adopted, provides for an adjacent basin 19 acres in area dredged to depths of -12 feet MLLW and -14 feet MLLW, protected by a jetty 530 feet long and a breakwater 1,150 feet long.

EXISTING PROJECT:	<u>LENGTH</u>	<u>DEPTH</u>	<u>WIDTH</u>
• Harris Basin	11.5 acres	-12 ft	N/A
• South Breakwater (Harris Harbor)	430 ft		
• North Breakwater (Harris Harbor)	1540 ft		
• Aurora Basin	19 acres	-12, -14 ft	N/A
• North Jetty (Aurora Harbor)	670 ft		
• Main Breakwater (Aurora Harbor)	1500 ft		

PROJECT USAGE: Harris Basin is used as a base of operations for approximately 250 vessels. Aurora Basin provides protected moorage for approximately 550 small craft and seaplanes. The combined Juneau-Douglas complex (see also Douglas Harbor and Gastineau Channel) gives protection and moorage to approximately 1,000 vessels, half of which are active in commercial fishing. All transportation to the area is by sea or air.

PROGRESS OF WORK:

- 1939 - The original project adjacent to the Juneau/Douglas bridge, Harris Harbor, is completed to its present dimensions.
- 1950 - The first maintenance dredging contract is completed in the summer for Harris Harbor.
- 1962 - Limited maintenance dredging at the entrance of Harris Basin is performed in July. Aurora Harbor: Design modifications increase the length of the jetty to 670 feet and the main breakwater to 1500 feet. Work commences on the North Jetty in August and is completed in September. Dredging of the new basin begins in December.
- 1963 - Dredging of Aurora Basin is completed in March with the exception of the most northerly corner where hard bottom prevents dredging. Contract for the main breakwater is awarded in June and begins in July.
- 1964 - The main breakwater for Aurora Harbor is completed in February.
- 1968 - Harris Basin is dredged north of the alignment of the entrance channel with 39,353 cubic yards reportedly removed from July through September.
- 1973 - A contract for the repair of the main northerly breakwater at Harris Harbor is awarded in June and completed in December.
- 2002 - The latest condition survey of both boat harbors is performed in April.
- 2003 - Vertical and oblique aerial photography is taken of Aurora and Harris harbors.

JUNEAU, ALASKA (continued)

30 September 2009

2005 - Condition surveys are performed in Aurora and Harris harbors.

2009 – A project condition survey of both boat harbors was performed in August.

COST TO DATE:

CG Appropriation	\$1,910,563
CG Costs	\$1,910,563
O&M Appropriation	\$429,023
O&M Costs	\$429,023

RANGE OF TIDE:

Mean Range
13.7'

Diurnal Range
16.3'

Extreme Range
28.7'

CONTROLLING DEPTH: For Harris Harbor –7.6 feet controls for the northeast corner, and –8.8 feet MLLW controls for the U.S. Fish and Wildlife float, August 2009, otherwise most of the harbor exceeds project depth. For Aurora Harbor some minor shoaling occurs around the project limits most notably in the northwest corner region; -13.0 feet controls in the –14 foot area and –4.5 feet controls in the –12 foot area near the toe of the breakwater, August 2009.

Aurora and Harris Harbors, Juneau, Alaska



Aurora Harbor aerial (top) and looking across the harbor toward the Douglas Island bridge.
Photos were taken in August 2010.

Aurora and Harris Harbors, Juneau, Alaska



Harris Harbor aerial photographs taken in August 2010.