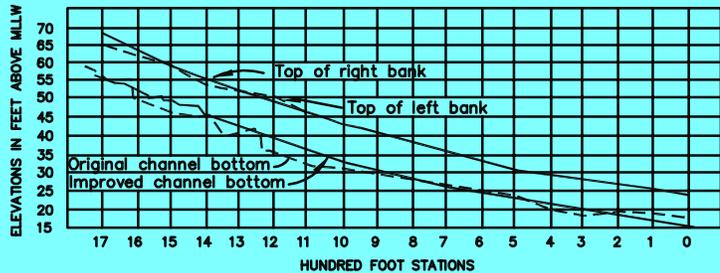
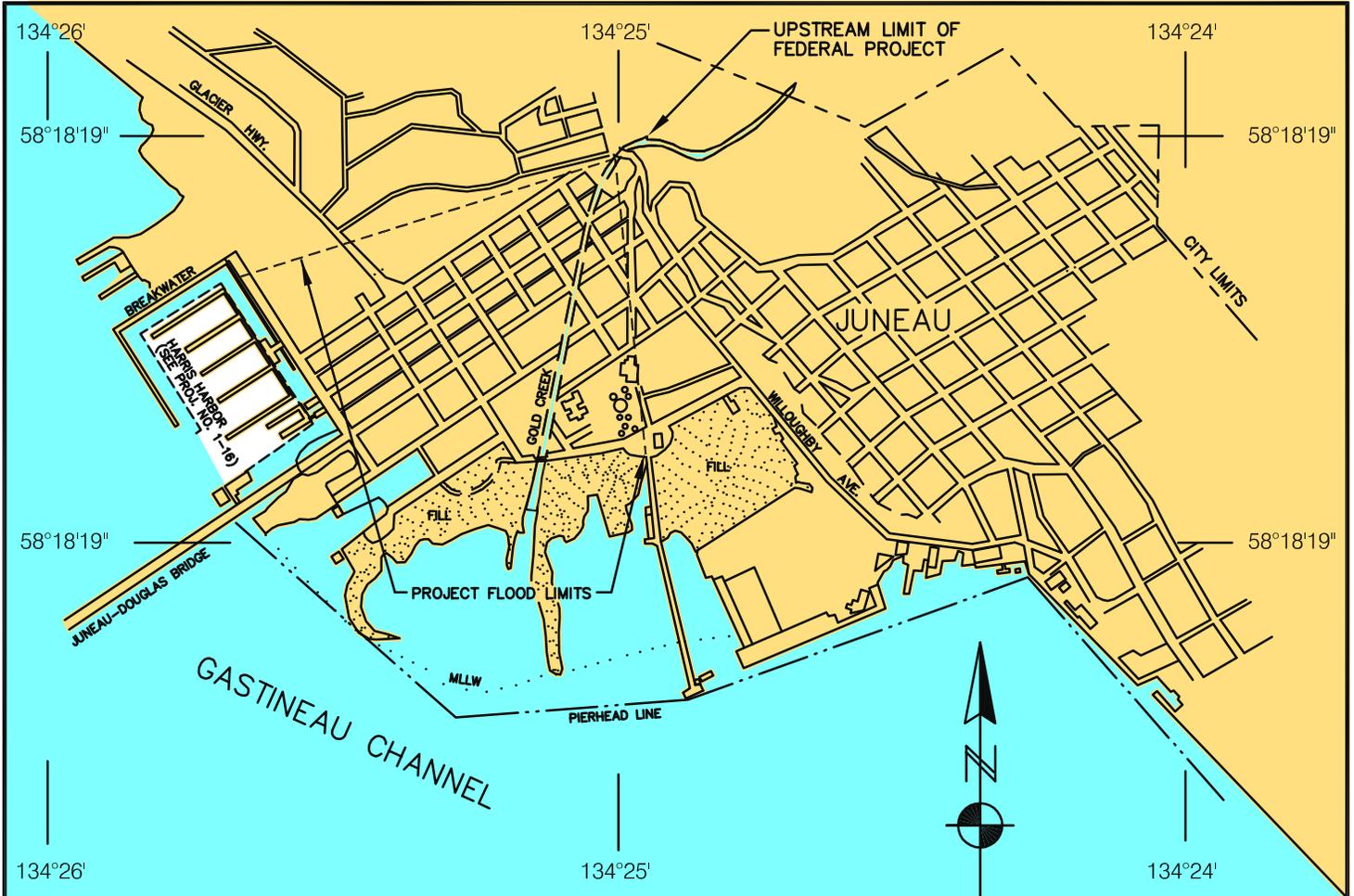
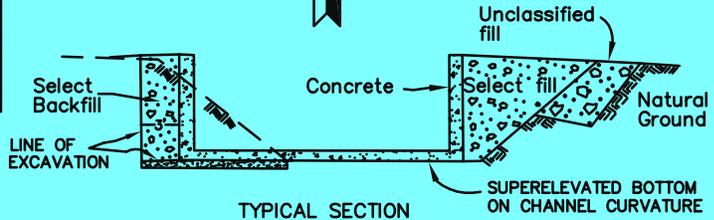


**GOLD CREEK
JUNEAU**



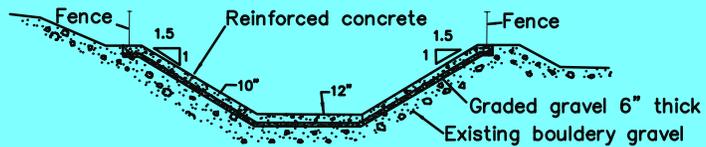
PROFILE OF CHANNEL IMPROVEMENT
SCALE: AS SHOWN



TYPICAL SECTION
STATION 11+10
NOT TO SCALE

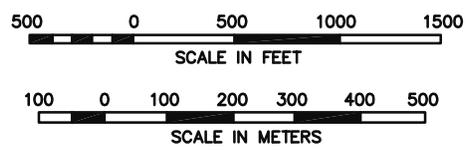
METRIC CONVERSIONS					
FEET	METERS	FEET	METERS	FEET	METERS
70	21.3	471	143.5	1,717	523.3
113	34.4	550	167.6		
250	76.2	620	188.9		

THIS LOCALITY IS SHOWN ON USC & GS CHART NOS. 17315, 17300.



TYPICAL SECTION
STATION 0+00
NOT TO SCALE

FLOOD CONTROL
GOLD CREEK
ALASKA
REVISED 1998



GOLD CREEK, ALASKA
(CWIS NO. 06630, 150225)

Condition of Improvement 30 September 2011

AUTHORIZATION: Flood Control Act, 3 September 1954 (House Doc. 54, 82nd Congress, 1st Session) as adopted, provides for a reinforced concrete channel lining 1,717 feet in length for that portion of Gold Creek passing through the city of Juneau; includes the necessary intake and downstream energy dissipating structures.

EXISTING PROJECT:	<u>LENGTH</u>	<u>DEPTH</u>	<u>WIDTH</u>
• Lined channel	1,717 ft		
• Intake Structure (lined)	113 ft		
• Outlet Structure (lined)	250 ft		

PROJECT USAGE: Improvement of the channel through the city of Juneau eliminates the serious flood threat to Alaska's capital city.

WORK PRIOR TO EXISTING PROJECT:

- 1934 - The WPA begins construction of an emergency project resulting in the establishment of a definite channel in 1935 at a cost of \$84,000.
- 1947 - Damaged revetment is repaired along the stream bank.
- 1949 - Existing revetment 417 feet in length is protected and damaged foundation repaired adjacent to the Indian hospital.
- 1950 - Lining the bottom and left bank of the stream with pre-cast reinforced slabs for 316 feet from 60 feet below "A" street to 70 feet below "B" street.
- 1953 - Construction of approximately 620 feet of channel bottom and 550 feet of canal wall with the required excavation, back fill, and other necessary work to become part of the proposed project. Total emergency work to date amounts to \$263,252.43.

PROGRESS OF WORK:

- 1957 - Channel lining work on the existing project begins in April; the project is completed in March 1958.
- 1960 - Staff gauges are set in the structure for engineering research purposes.
- 1962 - Rehabilitation of the channel lining and construction of a stilling basin are accomplished from March through June; work performed includes the construction of a concrete check dam and the placement of 290 cubic yards of derrick stone at the head of the channel.
- 1968 - Repair of the existing channel, improvement of the head-works, and elimination of a debris source commenced October 1967 and is completed in June. Annual inspection of the project determines compliance with requirements of local cooperation.
- 1975 - The remaining 600 feet of channel lining are repaired.
- 1979 - An inspection indicates that minor repair work is necessary; local interests are notified and the work is reportedly complete in 1984.

GOLD CREEK, ALASKA (continued)

30 September 2011

- 1995 - The most recent inspection indicates that the project is in good operational condition.
- 1996 - An estimated 100 year stream flow event on 25 September carries large trees and boulders through the project. Some riprap bank protection was reportedly undercut, but preliminary reports indicate no serious damage to the channel lining.
- 2000 - Inspection by Corps' personnel finds the project to be in satisfactory condition. Locals were notified of the required minor repairs.
- 2001 - The upstream catch basin is dredged by local interests. Overall the channel is in good condition. Minor repair work has been recommended.
- 2002 - The channel is found in good condition. Minor repair work and removal of debris from the catch basin is recommended, September 2002.
- 2003 - Inspection by the Corps finds the project in good condition. Some minor concrete repair and dredging of sediment from the debris basin is recommended, June 2003.
- 2004 - The project is found in good condition. Removal of sediment from the debris basin at the upstream end of the project is recommended.
- 2005 - The 2005 inspection finds that approximately 80 feet of concrete channel wall south of the federal building needs patching. Debris from the debris basin also needs to be removed and monitored to keep material out of the channel.
- 2006 - Damage to the channel lining requires repair at several locations. A major flood was prevented by the project, but repairs must be made to the concrete channel and the catch basin must be emptied of material to ensure that the project continues to function effectively. Local interests have been notified.
- 2007 - The project was inspected in September by Corps personnel and deficiencies noted. The City has been notified by letter of the needed repairs.
- 2009 - There is moderate erosion throughout the channel. The concrete is eroding between the rails, just below the debris basin. There are small areas of erosion along the joints between the channel floor and walls, throughout the channel.

COST TO DATE:

CG Appropriations 150225	\$266,036	
CG Costs 150225	\$266,036	
CG Contributed Appropriations 150225	\$64,979	
CG Contributed Costs 150225	\$22,118	
CG Appropriations 6630	\$876,006	
CG Costs 6630	\$876,006	
CG Contributed Appropriations 6630	\$4,301	
CG Contributed Costs 6630	\$4,301	

Gold Creek, Juneau, Alaska



Aerial of Juneau with Gold Creek in the middle (top) and Gold Creek Bank Stabilization through downtown Juneau, Alaska 2007.