KENNECOTT COPPER CORPORATION, MACHINE SHOP Wrangell-St. Elias National Park & Preserve On Copper River & Northwestern Railroad Kennicott Valdez-Cordova Census Area Alaska HAER AK-1-G AK-1-G

# PHOTOGRAPHS REDUCED COPIES OF MEASURED DRAWINGS FIELD RECORDS

HISTORIC AMERICAN ENGINEERING RECORD
National Park Service
U.S. Department of the Interior
1849 C Street NW
Washington, DC 20240-0001

ADDENDUM TO:
KENNECOTT COPPER CORPORATION, MACHINE SHOP
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## HISTORIC AMERICAN ENGINEERING RECORD

## INDEX TO PHOTOGRAPHS

# KENNECOTT COPPER CORPORATION, MACHINE SHOP

HAER AK-1-G

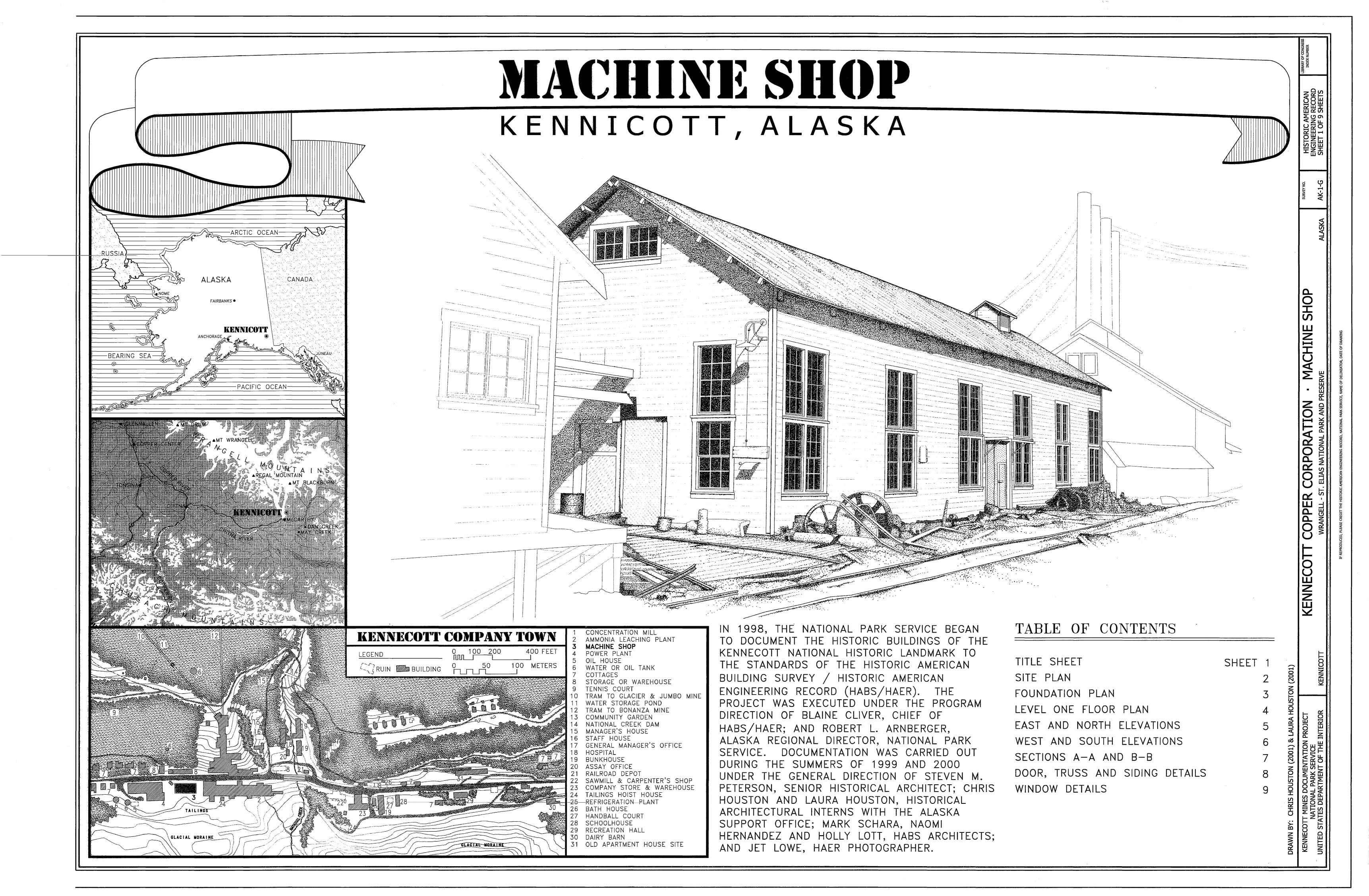
Wrangell-St. Elias National Park & Preserve
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Alaska

Photographs AK-1-G-1 through AK-1-G-6 are photogrammetric images.

## INDEX TO BLACK AND WHITE PHOTOGRAPHS

Mark Schara, photographer, June 1999

AK-1-G-1	View looking northwest toward east (front) elevation
AK-1-G-2	Detail of entrance in center of east elevation
AK-1-G-3	View looking southeast of north gable end
AK-1-G-4	View looking southeast of west (rear) elevation
AK-1-G-5	View looking northeast of south gable end
AK-1-G-6	View looking northwest of south gable end



# BUILDING HISTORY

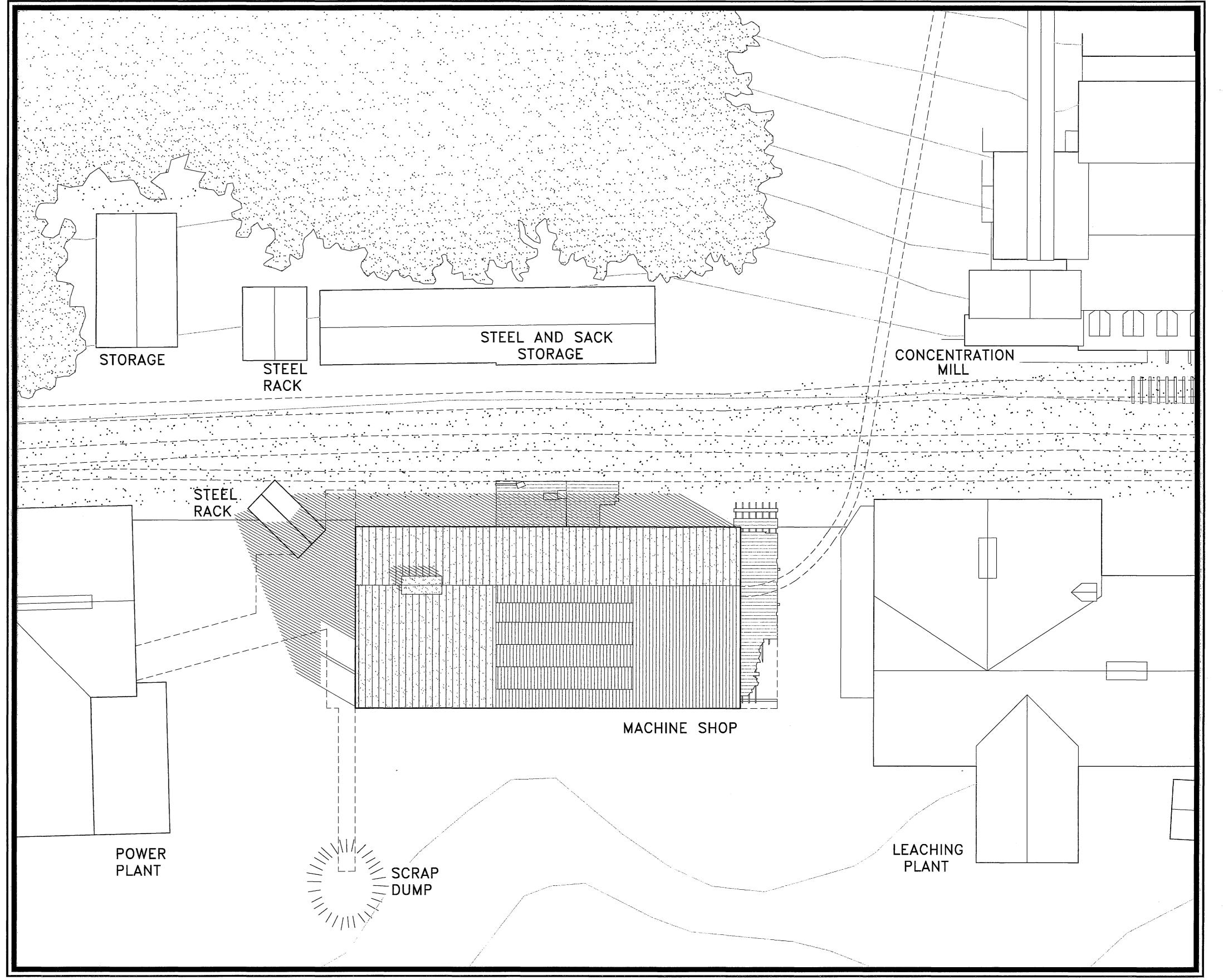
THE MACHINE SHOP WAS ERECTED IN 1916 AS PART OF THE GENERAL EXPANSION OF THE KENNECOTT FACILITIES THAT TOOK PLACE BETWEEN 1915 AND 1918. OTHER ACTIVITIES AT THE SAME TIME INCLUDED ENLARGEMENT OF THE LEACHING PLANT, EXPANSION OF THE POWER PLANT, AND CONSTRUCTION OF THE HOSPITAL, RECREATION HALL AND STORE. THESE CHANGES REFLECTED THE MATURITY OF THE MINING AND MILLING OPERATIONS, AS WELL AS THE CHANGING CORPORATE STRUCTURE, AS THE ALASKA SYNDICATE GAVE WAY TO THE KENNECOTT COPPER CORPORATION.

THE LONG NARROW BUILDING ERECTED IN 1916
HOUSED A LARGE PUNCH, SHEERS, AN OVERHEAD
TRAVELING CRANE AND OTHER NEW EQUIPMENT
PURCHASED THAT YEAR. THE SHOP WAS
CONNECTED WITH THE STORE AND WAREHOUSE TO
THE SOUTH AND THE POWER PLANT TO THE
NORTH VIA A NARROW GAUGE RAILWAY. THE
TRACK PERMITTED CREWS TO MOVE HEAVIER
EQUIPMENT ABOUT THE SITE. A SECOND LINE
CROSSED THE MAIN RAILWAY TRACKS ON A
DRAWBRIDGE AND RAN UP HILL BESIDE THE MILL
TO RAISE AND LOWER HEAVY EQUIPMENT.

OVER TIME, THE MACHINE SHOP WAS EXPANDED TO INCLUDE ADDITIONAL FUNCTIONS. THE BLACKSMITH'S SHOP WAS LOCATED IN THE NORTH END OF THE BUILDING. AN ADDITION TO THE WEST SIDE INCLUDED STOREROOMS AND A LARGE BRICK FLOORED WELDING SHOP. A LARGE HATCH IN THE FLOOR PROVIDED ACCESS TO A GROWING STORE OF SUPERCEDED MILLING EQUIPMENT KEPT BENEATH THE SHOP.

WHILE EVERY EFFORT WAS MADE TO STOCK THE SPARE PARTS NEEDED TO KEEP THE MINES AND THE MILL RUNNING, THE MACHINE SHOP, ALONG WITH THE SKILLED MACHINISTS AND MILLWRIGHTS WHO WORKED THERE, ENSURED THAT ANY MISSING PARTS COULD BE MADE AND INSTALLED IN A TIMELY MANNER. THE MACHINE SHOP WAS THE HEART OF THE REGULAR MAINTENANCE PROGRAMS AND THE SOUL OF ANY AND ALL EMERGENCY REPAIRS NEEDED TO KEEP THE COMPLEX OPERATION WORKING.

WHEN THE KENNECOTT MINES CLOSED IN 1938, THE EQUIPMENT IN THE MACHINE SHOP WAS DISMANTLED AND SHIPPED OUT AS PART OF THE SALVAGE OPERATIONS CONDUCTED IN THE FINAL MONTHS. MANY OF THE TOOLS WENT TO ANOTHER ALASKAN MINE, THE GOLDEN ZONE MINE JUST TO THE SOUTH OF THE PRESENT BOUNDARIES OF DENALI NATIONAL PARK AND PRESERVE.



ROOF PLAN
SCALE: 1/16" = 1'-0"

0 10 20 30 FEET 0 1 2 4 6 8 METERS DRAWN BY: CHRIS HOUSTON (2001) & LAUR

DRAWN BY: CHRIS HOUSTON (2
KENNECOTT MINES DOCUMENT
NATIONAL PARK SER

