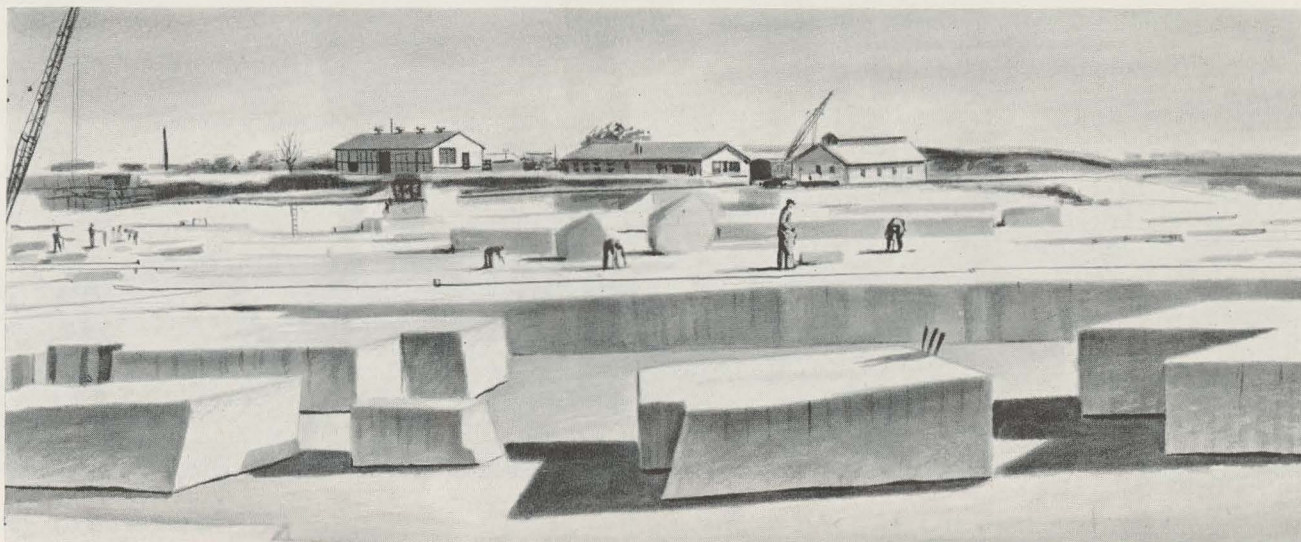




MOUNT AIRY

Granite

THE QUARRY



THIS PAMPHLET WILL TELL
YOU HOW NON-STAINING WHITE MOUNT
AIRY GRANITE IS PRODUCED IN
VAST QUANTITIES AT MINIMUM COST

The NORTH CAROLINA GRANITE CORPORATION

MOUNT AIRY, *North Carolina*



THE GRANITE DEPOSIT—

Five hundred years of quarrying at the present production rate of 3,000 carloads a year will not have exhausted the remarkable deposit of Mount Airy Granite pictured above. Viewed from the air the visible portion of the deposit is somewhat in the shape of an enormous oyster shell. The area of the quarry under actual operations is in excess of eighty acres, 2,800 feet long and 1,800 feet wide. Sixty years of carefully planned quarry operations have preserved and developed the almost ideal natural features of the deposit. Overburden has been stripped away and working surfaces kept free from grout and other waste materials.

The deposit of granite is perfectly solid, showing no natural bed planes or seams. The rift or easiest splitting way of the granite is approximately parallel to the top surface of the deposit. This fact enables the quarrymen to form great sheets of granite several acres in area and of almost any required thickness. This "lifting" process is an interesting combination of confined black powder gases and the natural tendency of the granite surface to expand under the heat of summer days and contract under the coolness of Blue Ridge Mountain nights. Space will not permit a detailed description of this quarrying process, but it may readily be seen that granite taken from this solid mass has not been discolored or adulterated by contact with interlying deposits of soil and other foreign matter. Perfectly sound pieces of granite up to the limits of railroad transportation are easily obtained.

Mount Airy is a biotite granite of medium grain. The color is a very light grey, almost white. The feldspar is white, the quartz a blue grey and the mica black; all of which are evenly distributed throughout the entire deposit. Uniformity of color and quality is assured for all jobs regardless of size.

PRODUCTION FACILITIES—

Physical equipment of the quarry, crusher and cutting departments is modern and complete. It is adequate to insure the rapid and efficient completion of large contracts and it is of sufficient capacity to handle unusually large pieces of granite. Standard gauge railroad tracks extend around and through the quarry, and to the cutting, sawing, and crushing plants. Railroad rolling stock includes a new diesel-electric locomotive, three locomotive cranes, thirteen flat cars, six dump cars, and two box cars. In addition to the railroad equipment, a 1½-yard shovel, a large crawler crane, two Hough loaders, and several large tractors, trucks and drag engines are used in handling products in the quarry. Compressed air is used to operate the drilling tools in the quarry.

The three principal cutting plants have a combined floor space in excess of 78,000 square feet. This space

CHEMICAL ANALYSIS MOUNT AIRY GRANITE

SILICA (Si O ₂).....	70.70
ALUMINA (Al ₂ O ₃).....	16.50
IRON SESQUIOXIDE (Fe ₂ O ₃).....	2.34
MAGNESIA (MG O).....	0.29
LIME (Ca O).....	2.96
SODA (Na ₂ O).....	4.56
POTASH (K ₂ O).....	2.45
IRON SULFIDE (Fe S ₂).....	0.09
	99.89

LABORATORY TEST OF MOUNT AIRY GRANITE

TOUGHNESS.....	11
FRENCH COEFFICIENT OF WEAR.....	9.5
CRUSHING STRENGTH (PER SQUARE INCH).....	23,069
WEIGHT PER CUBIC FOOT.....	165

is completely served by five electric, overhead traveling cranes with capacities ranging from twenty to forty tons each. Heavy granite cutting machinery includes two gang saws, three large carborundum saws, three diamond saws, three turning lathes, high-speed polishing machines, one polishing lathe and two complete sand-blast installations. Surfacing machines and the standard pneumatic and hand tools are sufficient for the requirements of a large number of granite cutters. Drills, points, chisels, and other tools are made and kept in first-class condition in the modern forge, machine and blacksmith shops.

The greater part of the heavy machinery is driven by electric power furnished by the Duke Power Company. Compressed air for the quarry and plants is provided by two large compressors with a combined capacity of 5,000 cubic feet of air per minute. Water is electrically pumped from the Ararat River into an elevated steel tank with capacity of 60,000 gallons.

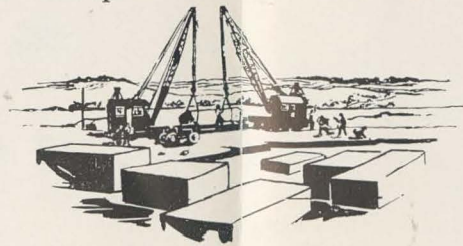
Each of the departments is under the supervision of experienced and efficient granite men. Particular care has been exercised in the development of accuracy and dependability in the estimating department and drafting rooms. The majority of the granite cutters and quarry workers are natives of this section and own their own homes. This labor is skillful and loyal. There is a notable minority of the "drifters" and malcontents so characteristic of most of the large granite producing centers.

PRODUCTS—

Quarry products include dimension stock and sawed slabs for buildings and monumental purposes, sawed bed ashlar, rubble, street curbing, rip-rap and specially crushed stones. Cut, carved and polished granite for all purposes is manufactured in the finishing plants. Mount Airy Granite memorials and buildings have been erected in practically every state in the Union. Lists of references may be secured by writing our Mount Airy offices. Space will permit only a brief reference to one of the outstanding jobs in Mount Airy Granite. This job is the Arlington Memorial Bridge, erected by the Federal Government at Washington, D. C. This beautiful bridge contains more than 300,000 cubic feet of Mount Airy Granite and is considered one of the finest granite structures in America. Each of the many thousands of pieces of cut granite is an example of first-class workmanship in every detail of execution.

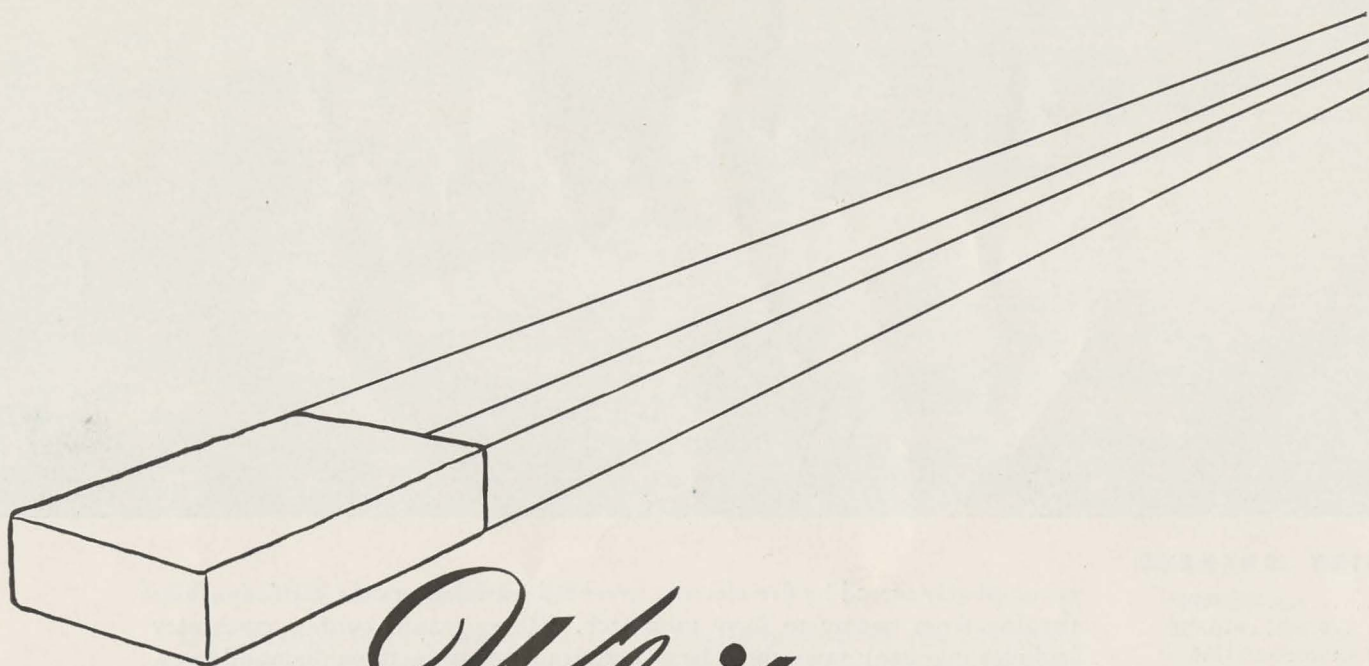
DELIVERIES—

Mount Airy is served by the Southern Railway Company with nearby connections to the Norfolk & Western, Seaboard Air Line, Atlantic Coast Line, and other railroads. Freight rates are comparatively reasonable and service is usually good. Care in the crating and loading of finished granite has practically eliminated the annoying and expensive delays caused by materials damaged in transit.



VISITORS TO THE QUARRY AND PLANTS ARE ALWAYS WELCOME AND WILL BE SHOWN EVERY COURTESY

90236.014



White

MOUNT AIRY GRANITE

LET OUR
PRESENT BUILDING
BE A HERITAGE
FOR THE FUTURE

