

PROGRESS REPORT  
BUREAU OF ENGINEERS  
Project 40-B14-106  
MONTH OF AUGUST, 1935.

A. Removing rock from the bed of the Milwaukee River at Lincoln Park between the Pt. Washington Road and Lincoln Park bridges, to prevent flooding of contiguous property.

B.

1. Operations in charge of:-

- a. Mr. E. L. Knebes, Ass't. City Engineer
- b. Mr. F. C. Glamm, General Supervisor

2. Design and Advisory engineering service by:-

- a. Mr. F. W. Ullius, Spec. Ass't. Engineer
- b. Mr. A. E. Kringel, Spec. Designing Engineer

3. Work crew averaged to 264 workers, including supervision.

4. Special Equipment consists mainly of stationary air compressor with after cooler, 2200 ft. air lines and fittings, flood light, blasting and high power lines and transformers.

The project makes extensive use of rotary rock drills and drill steels. A  $1\frac{1}{4}$  yd. Gas Elect. Shovel was operated and serviced by a 5 ton and six  $2\frac{1}{2}$  ton trucks.

C. During the month of August there were 56 blasts made, a total of 1962 holes drilled to a total depth of 4186 feet. Operations were satisfactory as pertains to yardage production. Sloping of north bank is approximately 75% complete. Working areas are now 90% complete as to grade. Area at west end of project will require about  $1\frac{1}{2}$  weeks to bring to grade and slope.

Quantitative data for month -

8519	Cu. Yds.	Earth	Removed
1555	"	"	Rock


Quantitative data for entire W.E.R.A. Program - June 25, 1934 to August 29, 1935.

47,762	Cu. Yds.	Earth	Removed
21,729	"	"	Rock

D. Project is approximately 50% completed. It is anticipated that operations will be transferred to south channel, with the resumption of work and the W.P.A. program.

E. Contemplated completion date of north channel is predicated on resumption of work under the W.P.A. program.

BUREAU OF ENGINEERS

BY   
General Supervisor

July 16, 1955

## REMOVING ROCK - MILWAUKEE RIVER

At Lincoln and Estabrook Parks there is a ledge of rock in the bed of the Milwaukee River which is an obstruction to the flow of water and which, during severe storms, causes flooding and inundating of approximately 600 acres of property. This project was formulated under C.W.A. and has continued through the W.E.R.A. to remove this rock ledge. The area of this section to be removed is approximately 2,000 feet long, 200 feet wide and a depth of about 6 feet.

An earthen dyke was first constructed along the middle of the stream. The north half of the river was then pumped out, rock was loosened by drilling and blasting and was excavated partly by power shovel and hand loading into trucks.

The material excavated is used largely for road bases, dry walls, rip-rap, walks and for temporarily surfacing streets. All excess material is trucked to a crushing plant operated by the city nearby and stock-piled. Special equipment used on this project consists mainly of a stationary compressor with after cooler, flood lighting, blasting and high power lines and transformers. This work is a part of a general plan for relieving flood conditions in this area and is working in conjunction with the Milwaukee County C.C.C. camps who are continuing this work down stream. This project will be 50% completed, in other words, the north half of the river will be completed during August. Under the W.P.A. program it is the intention to remove rock in the south half of the river.