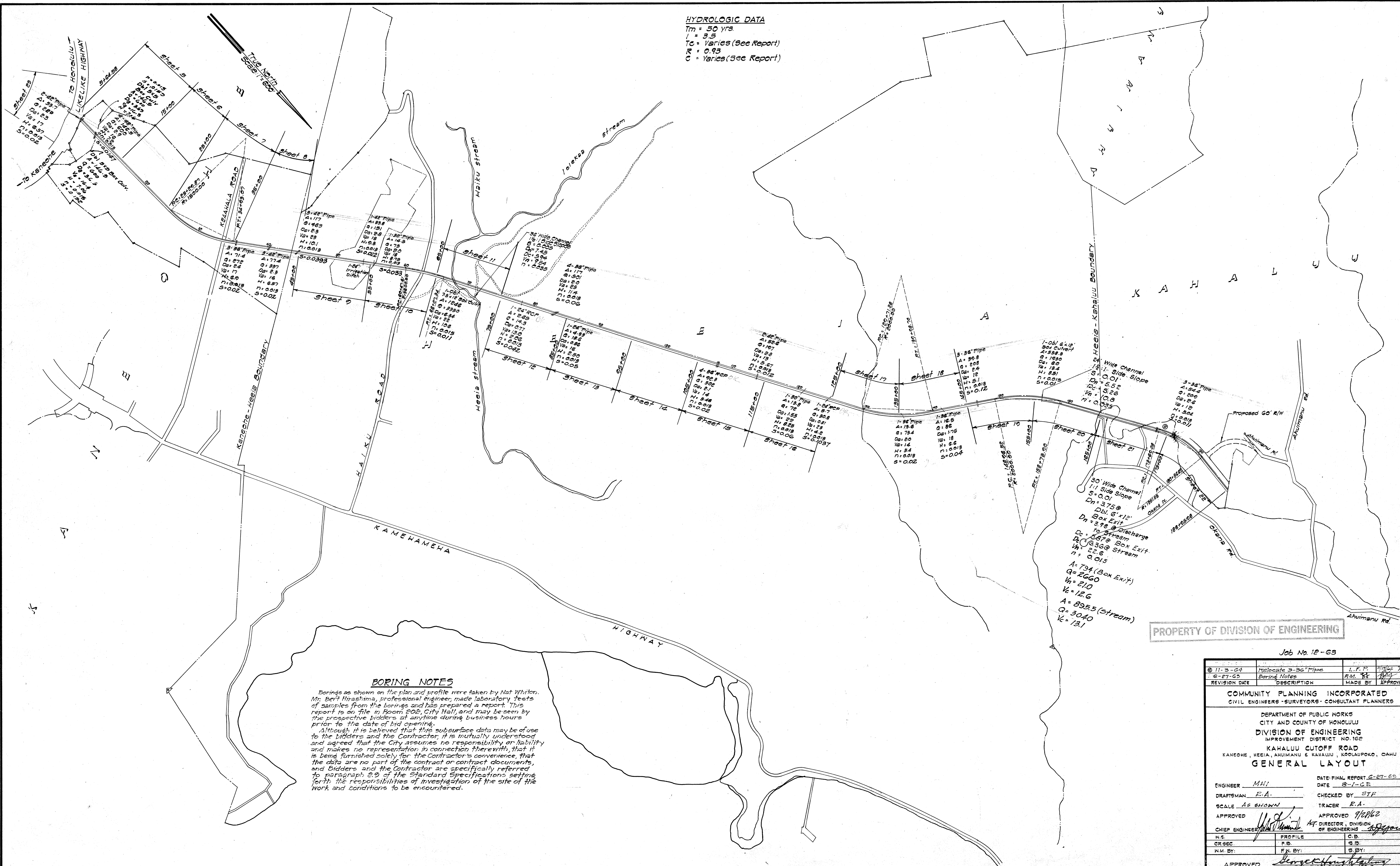


HYDROLOGIC DATA  
Tm = 30 yrs  
I = 3.5  
TC = Varies (See Report)  
R = 0.95  
C = Varies (See Report)



**BORING NOTES**

Borings as shown on the plan and profile were taken by Nat Whitton. Mr. Bert Hirasima, professional engineer, made laboratory tests of samples from the borings and has prepared a report. This report is on file in Room 202, City Hall, and may be seen by the prospective bidders at anytime during business hours prior to the date of bid opening.

Although it is believed that this subsurface data may be of use to the bidders and the Contractor, it is mutually understood and agreed that the City assumes no responsibility on liability and makes no representation in connection therewith, that it is being furnished solely for the Contractor's convenience, that the data are no part of the contract or contract documents, and bidders and the Contractor are specifically referred to paragraph 2.9 of the Standard Specifications setting forth the responsibilities of investigation of the site of the work and conditions to be encountered.

PROPERTY OF DIVISION OF ENGINEERING

Job No. 12-63

11-3-64	Relocate 3-36" Pipe	L.F.P.	11/11/64
6-27-63	Boring Notes	R.M.	7/8
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

**COMMUNITY PLANNING INCORPORATED**  
CIVIL ENGINEERS-SURVEYORS-CONSULTANT PLANNERS

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU  
DIVISION OF ENGINEERING  
IMPROVEMENT DISTRICT NO. 162

KAHALU CUTOFF ROAD  
KANEHE, KEEIA, AHUIMANU & KAHALU, KOOLAPOKO, OAHU

**GENERAL LAYOUT**

ENGINEER M.H.I. DATE: FINAL REPORT 6-27-63  
DRAFTSMAN E.A. CHECKED BY STF  
SCALE AS SHOWN TRACER E.A.  
APPROVED [Signature] APPROVED 9/16/62  
CHIEF ENGINEER [Signature] AT DIRECTOR, DIVISION OF ENGINEERING

W.E.	PROFILE	C.D.
CR SEC.	P.D.	S.D.
W.M. BY:	F.N. BY:	S. BY:

APPROVED [Signature] REG. ENGR. CERT. NO. 410-E