

NOTES:

1. AREA IS IN ACRES

2. Q IS IN CUBIC FEET PER SECOND (CFS)

3. "HALF-CLOGGED" CAPACITY OF EACH PIPE = 0.2414 CFS

DRAINAGE PLAN
SCALE: 1"=20'

TRIB	1	2	3	4	5	6	7	8	9	10	11)	12
AREA	0.0218	0.0218	0.0148	0.0148	0.0667	0.0667	0.0148	0.0148	0.0128	0.0128	0.0213	0.0213
Q ₁₀	0.0395	0.0395	0.0268	0.0268	0.1209	0.1209	0.0268	0.0268	0.0232	0.0232	0.0386	0.0386

RUNOFF CRITERIA

AVERAGE FLOW RATE

FLOW RATE

RECURRENCE INTERVAL
ONE-HOUR RAINFALL INTENSITY
RUNOFF COEFFICIENT
TIME CONCENTRATION
RAINFALL INTENSITY
TRIBUTARY AREA

Tm = 10 YEARS
I = 4.5 INCHES
C = 0.82
Tc = 10 MINUTES
I = 2.2 INCHES/HOUR
A = 0.32 ACRES
Q = 0.58 CFS
q = 1.80 CFS

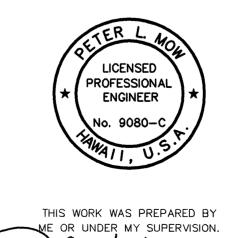
TRIB	1	2	3	4	5	6	7	(8)	9	10	11)	12
AREA	0.0218	0.0218	0.0148	0.0148	0.0667	0.0667	0.0148	0.0148	0.0128	0.0128	0.0213	0.0213
Q ₅₀	0.0538	0.0538	0.0366	0.0366	0.1647	0.1647	0.0366	0.0366	0.0316	0.0316	0.0526	0.0526

RUNOFF CRITERIA

AVERAGE FLOW RATE

RECURRENCE INTERVAL
ONE-HOUR RAINFALL INTENSITY
RUNOFF COEFFICIENT
TIME CONCENTRATION
RAINFALL INTENSITY
TRIBUTARY AREA
FLOW RATE

Tm = 50 YEARS
I = 5.5 INCHES
C = 0.82
Tc = 10 MINUTES
I = 2.9 INCHES/HOUR
A = 0.32 ACRES
Q = 0.79 CFS
q = 2.47 CFS



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE MAP

<u>HAWAII BELT ROAD</u>

<u>KUPAPAULUA BRIDGE WIDENING</u>

<u>HAMAKUA DISTRICT</u>

<u>Federal-Aid Project No. BR-019-2(38)</u>

Scale: As Noted

SHEET No. C-7 OF 41

Date: Oct 2001
41 SHEETS

9