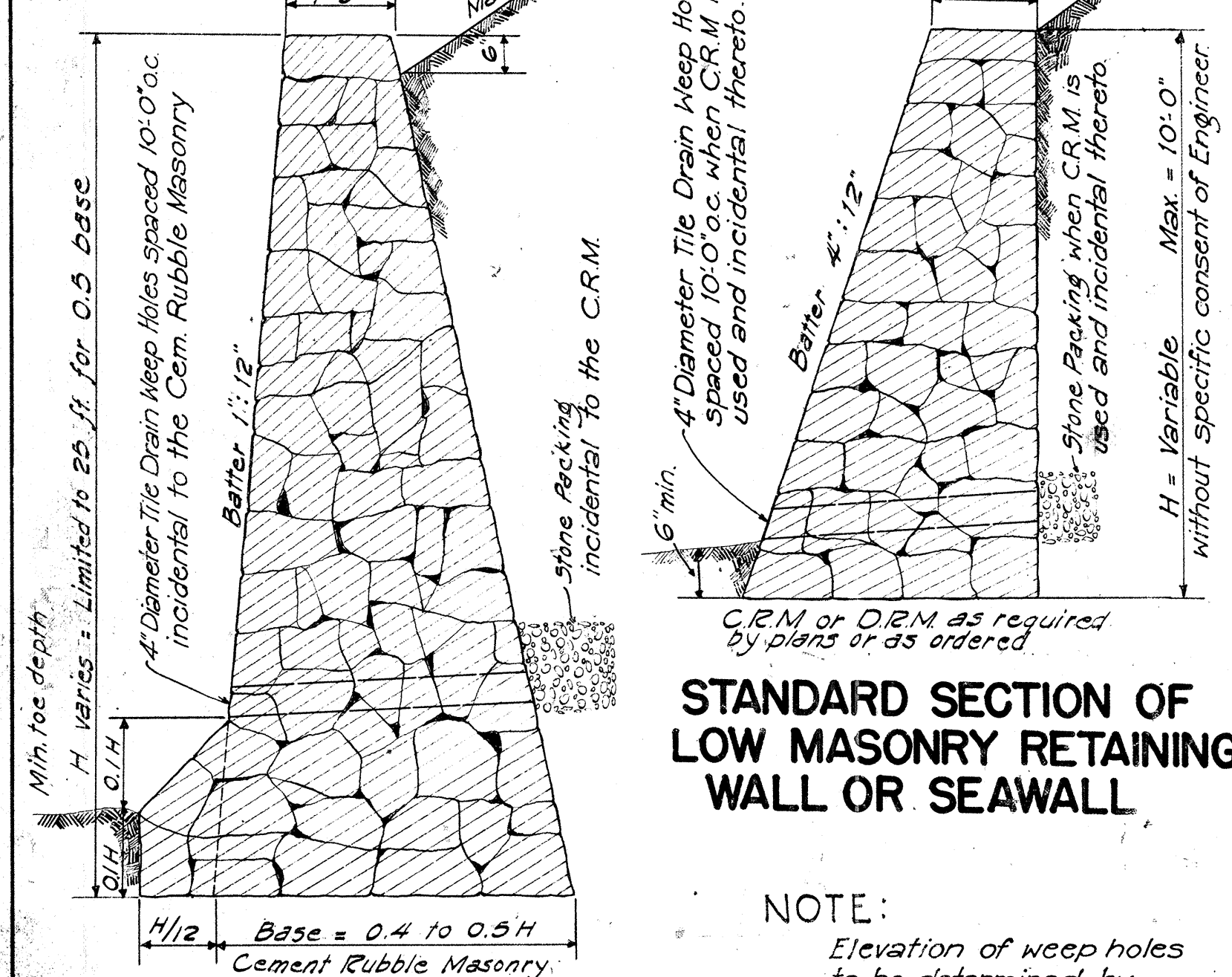


Note: TO RESIDENT ENGINEER
Consider economy of reinf. conc. for high retaining walls which did not originate on plan layout.



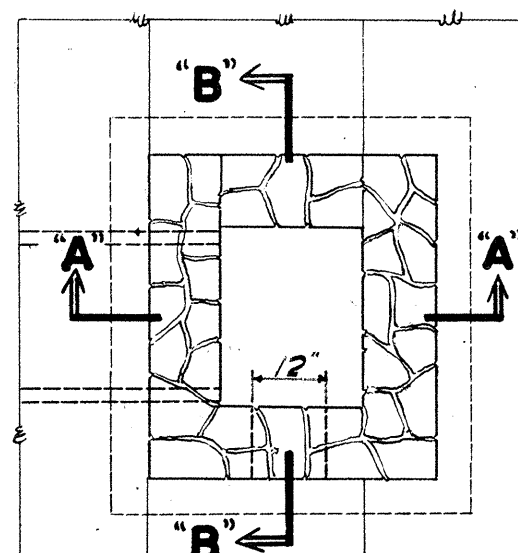
STANDARD SECTION OF LOW MASONRY RETAINING WALL OR SEAWALL

NOTE: Elevation of weep holes to be determined by Resident Engineer. Holes to be placed as close to the existing ground line as local conditions permit.

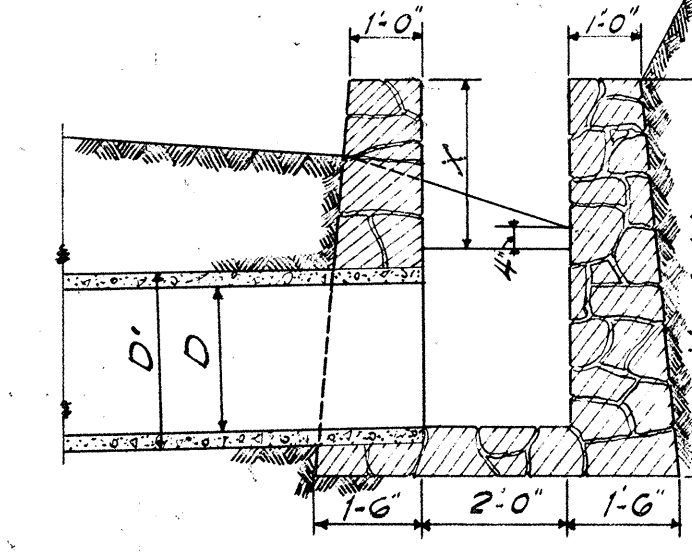
STANDARD SECTION OF HIGH CEMENT RUBBLE MASONRY RETAINING WALL OR SEAWALL

Standard Masonry Drop Intake	Where Variable Equals
D	L = D + 6"
22"	18"
24"	20"
26"	22"
28"	24"
30"	26"
32"	28"
34"	30"
36"	32"
38"	34"
40"	36"
42"	38"
44"	40"
46"	42"
48"	44"
50"	46"
52"	48"
54"	50"
56"	52"
58"	54"
60"	56"
62"	58"
64"	60"
66"	62"
68"	64"
70"	66"
72"	68"
74"	70"
76"	72"
78"	74"
80"	76"
82"	78"
84"	80"
86"	82"
88"	84"
90"	86"
92"	88"
94"	90"
96"	92"
98"	94"
100"	96"

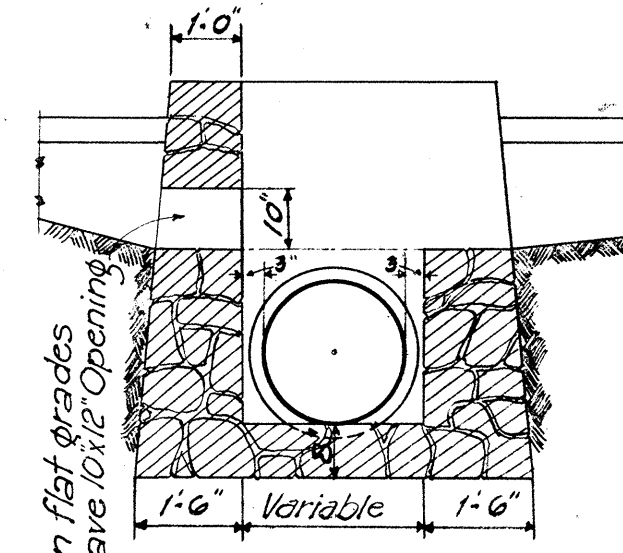
NOTE: Dimension "X" is assumed as 2'-4" in figuring the above quantities.



PLAN



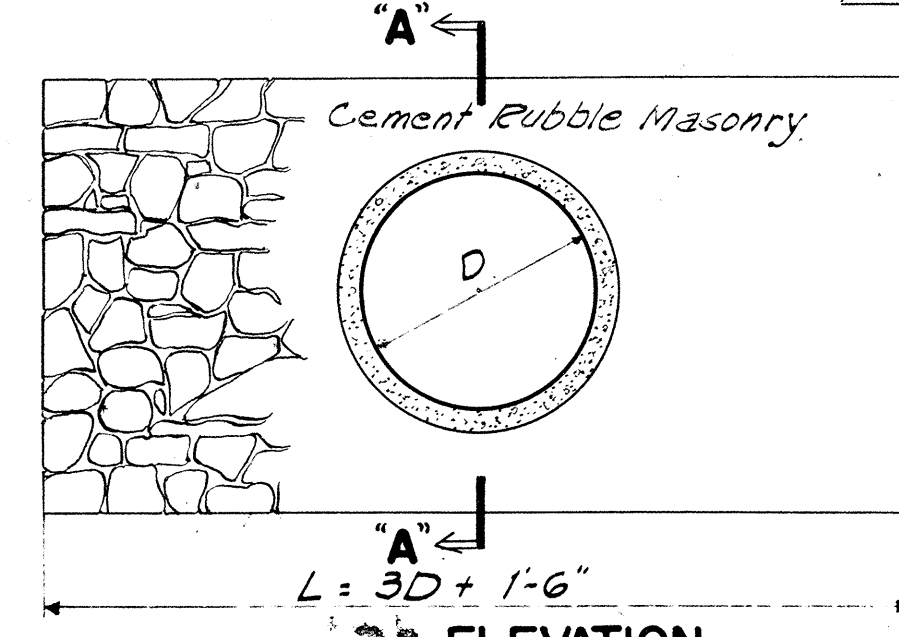
SECTION "A-A"



SECTION "B-B"

STANDARD MASONRY DROP INTAKE

Scale: 3/8" = 1'-0"



ELEVATION

Cast-in-Place		Precast				Data-Standard Rubble Masonry H.W.			
Cu. Yds.	Cu. Yds.	D	H	B	L	Cx. one H.W.			
0.85	0.95	18"	3'-6"	1'-2"	6"	0.03			
1.23	1.45	24"	4'-0"	2'-0"	7'-6"	1.41			
1.83	2.06	30"	4'-6"	2'-3"	9'-0"	2.00			
2.49	2.84	36"	5'-0"	2'-6"	10'-6"	2.72			

Black Letters on "Highway Yellow" Background White Reflectors.

R-1
30" x 30"

Black Letters on White Background

R-6
18" x 24"

Black Letters on White Background

R-8
18" x 24"

Series "D"

R-10
12" x 18"

Series "D"

R-11
20" x 24"

Series "D"

R-12
20" x 24"

Series "D"

R-13
24" x 30"

Series "D"

R-14
18" x 24"

Series "C"

R-15
24" x 24"

Black letters, White Arrows on Black background, White Border and White Reflectors.
4" Series "D" Letters

R-16 - R
*R-16 - L
36" x 12"

Red Letters & Border on White Background

R-18
12" x 18"

Red Letters & Border on White Background

R-26
12" x 18"

White Reflectors

R-29
24" x 30"

White Letters on "Highway Yellow" Background

R-41-S
24" x 24"

Red Letters & Border on White Background

R-42-S
12" x 18"

Black Letters on White Background

R-43-S
12" x 18"

Black Letters on White Background

R-44-S
12" x 18"

Series "E"

R-102-A
24" x 30"

Series "E"

R-102-B
24" x 30"

Series "E"

R-102-C
24" x 30"

Series "C"

R-104
24" x 30"

Series "E"

R-105-A
24" x 30"

Series "E"

R-105-B
24" x 30"

Series "E"

R-105-C
24" x 30"

R-105-D
24" x 30"

R-105-E
24" x 30"

R-105-F
24" x 30"

R-106
24" x 30"

R-107-A
24" x 30"

Series "D"

R-107
14" x 9"

bolt hole

W-2-R
*W-2-L
24" x 24"

W-4-R
*W-4-L
24" x 24"

W-5-R
*W-5-L
24" x 24"

W-6
24" x 24"

W-7
24" x 24"

W-8-R
*W-8-L
24" x 24"

W-9
24" x 24"

W-10
24" x 24"

W-13
24" x 24"

W-14
24" x 24"

W-14-A
24" x 24"

W-19
30" x 30"

W-20
30" x 30"

W-21
30" x 30"

W-22
24" x 24"

W-24
30" x 30"

Figures varies according to height of clearance

W-25
24" x 24"

Series "C"

W-29
24" x 24"

Series "B"

W-38
24" x 24"

W-39
24" x 24"

W-1-R
*W-1-L
24" x 24"

All letters and figures shall be of size and design shown and shall conform with "Standard Alphabets for Highway Signs" as set forth by the Public Roads Administration, Federal Works Agency. Series "C" letters and Series "D" numerals shall be used except where noted.

Note: All Regulatory (R) signs shall have black letters on a white background except where noted. All Warning (W) signs shall have black letters on figures on a "Highway Yellow" background. *Signs shall be similar but opposite in direction. See Specifications for Materials and Finish.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
REGULATORY & WARNING SIGNS
Scale: 1" = 1'
APPROVED: May 31, 1949
TERRITORIAL HIGHWAY ENGINEER

DATE: _____
DESIGNED BY: T. Tokunaga
DRAWN BY: _____
CHECKED BY: _____
NOTE: BOOK _____