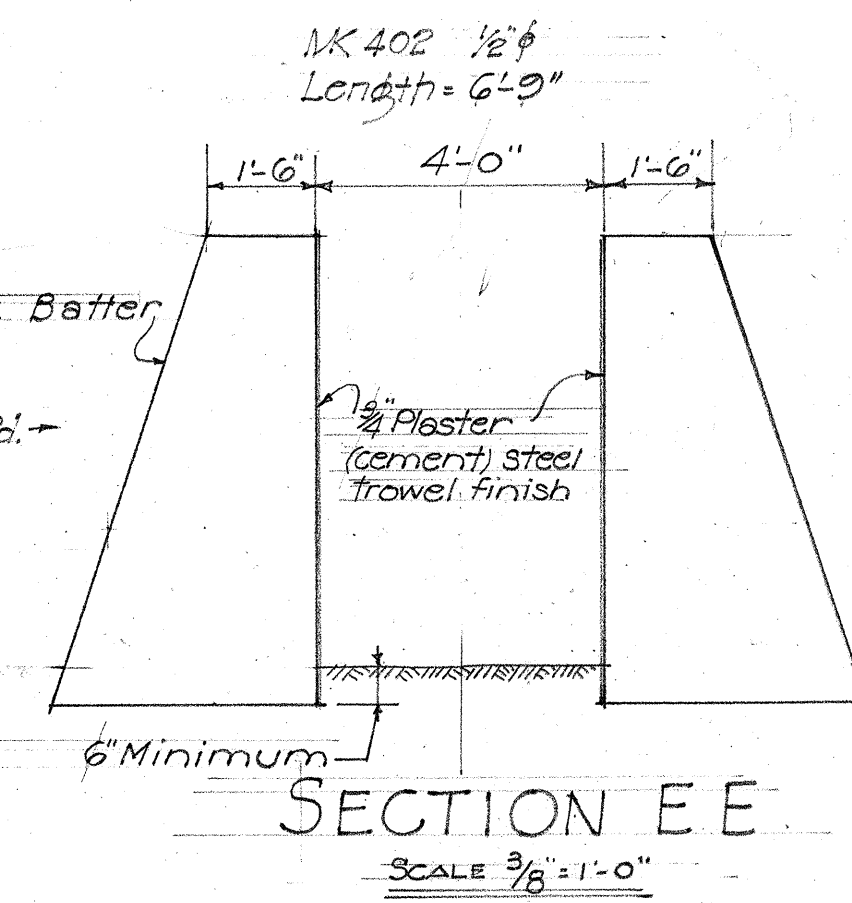
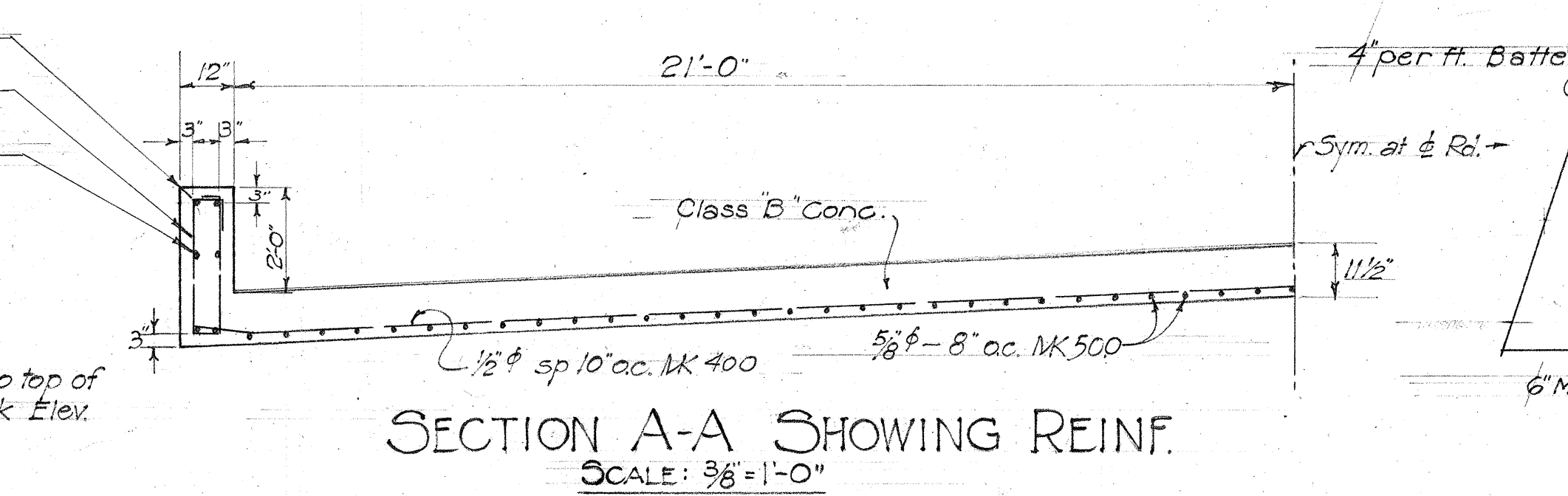
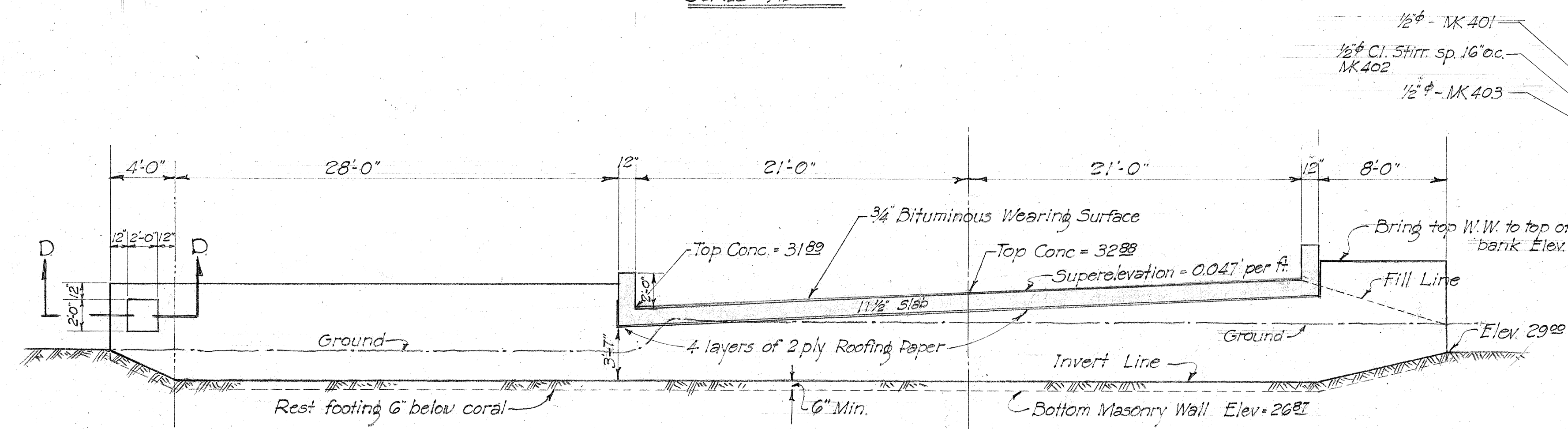
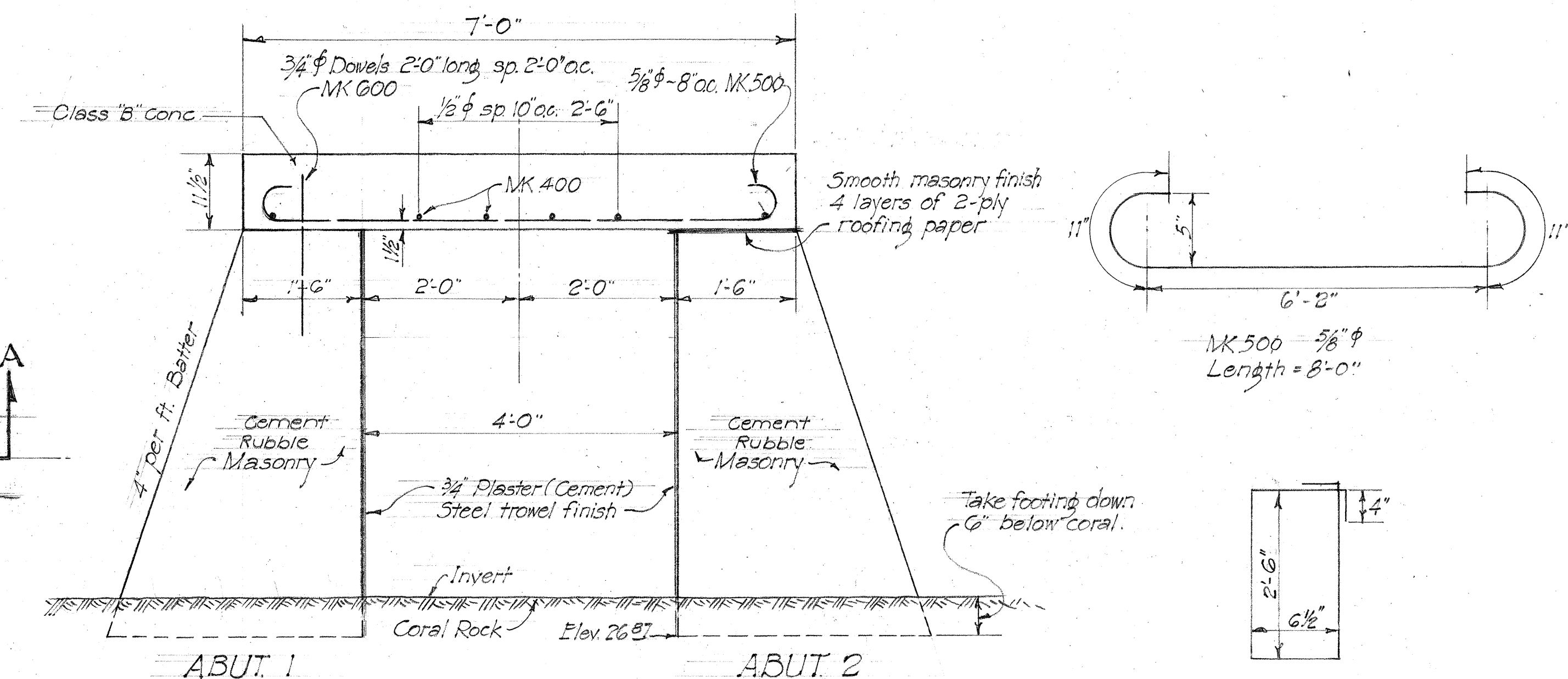
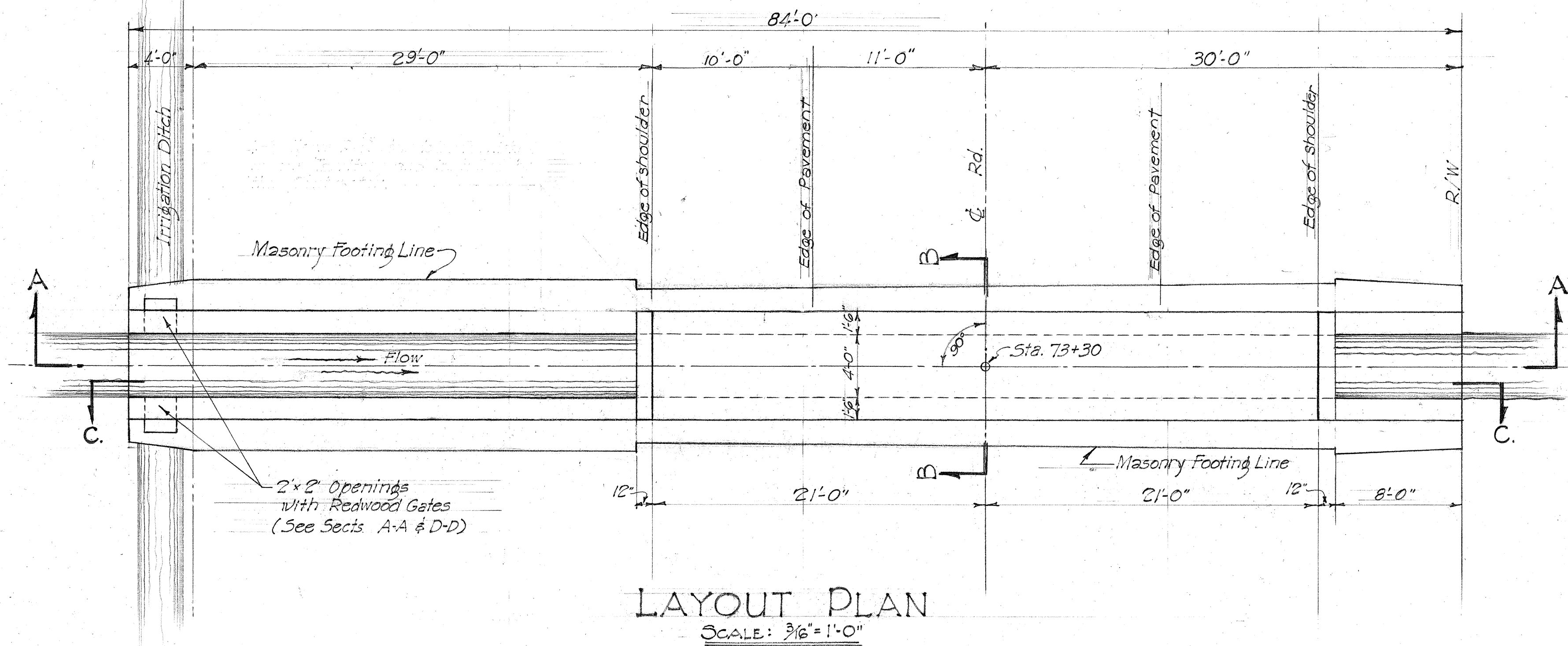
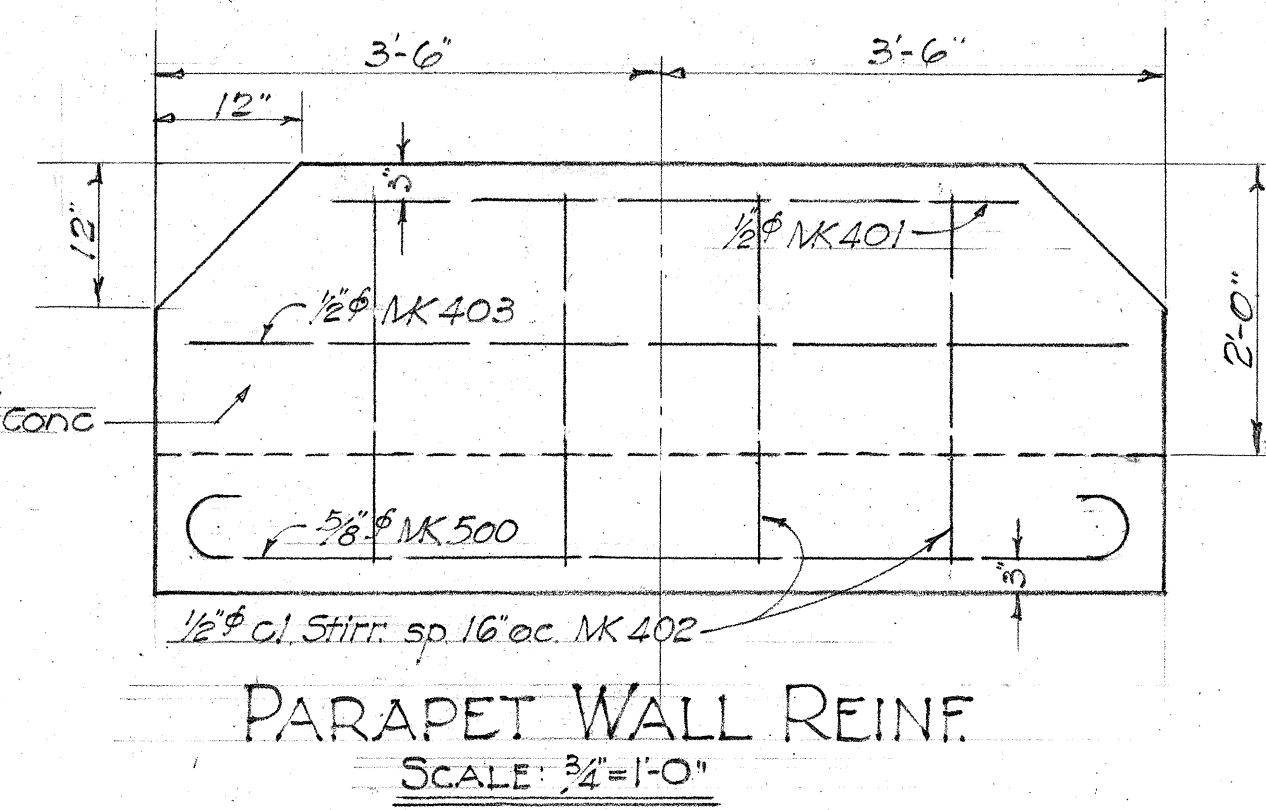
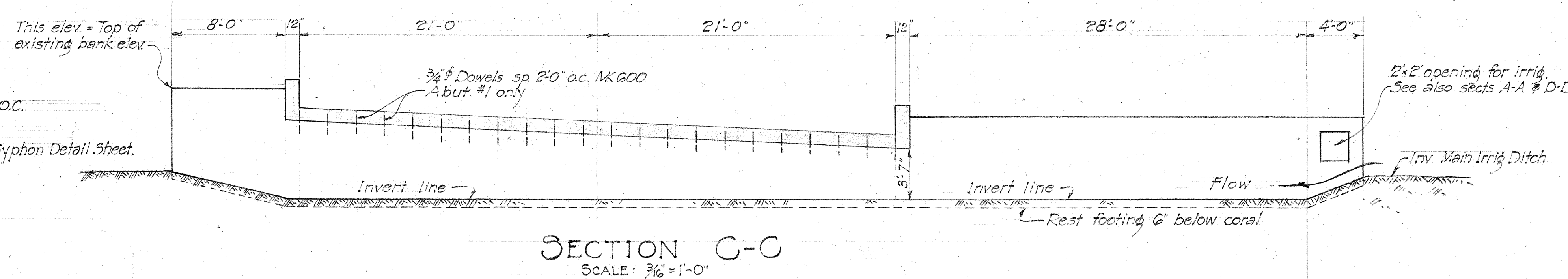
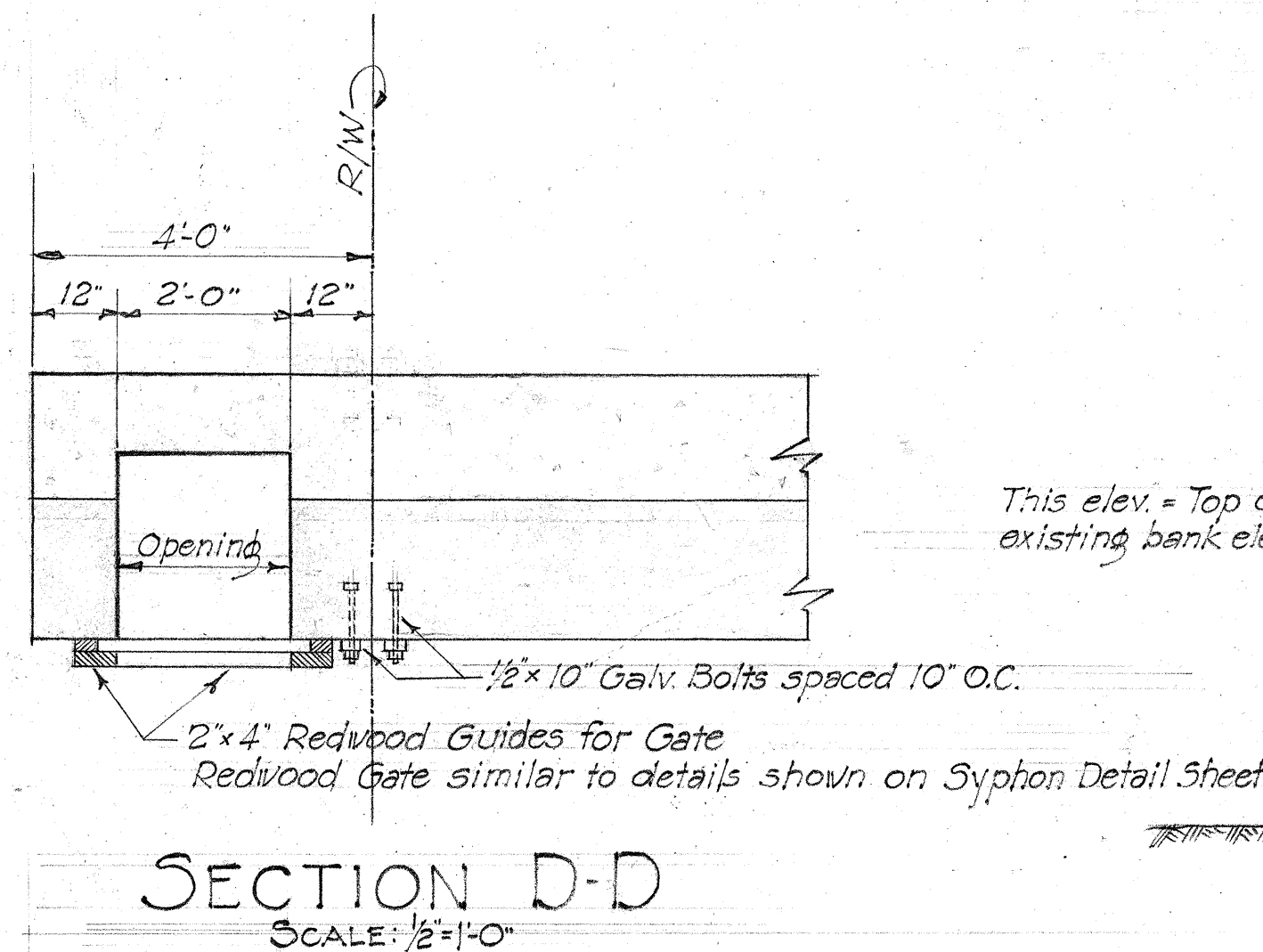




Note:
Culvert Slab designed for H-20 Loading, 25 lbs. per sq. ft. Paving allowance.
 $f_c = 100$, $f_s = 22,000$, $n = 10$
Reinforcing Steel to be Intermediate Grade.
All exposed edges chamfered $\frac{3}{4}''$ unless otherwise noted.



ESTIMATED QUANT.	
Item	Quantity
Class B Conc.	12 c.y.
Reinf. Steel	865 lbs.
C.R. Masonry	89 c.y.
Str. Exc.	110 c.y.
Channel Exc.	42 c.y.

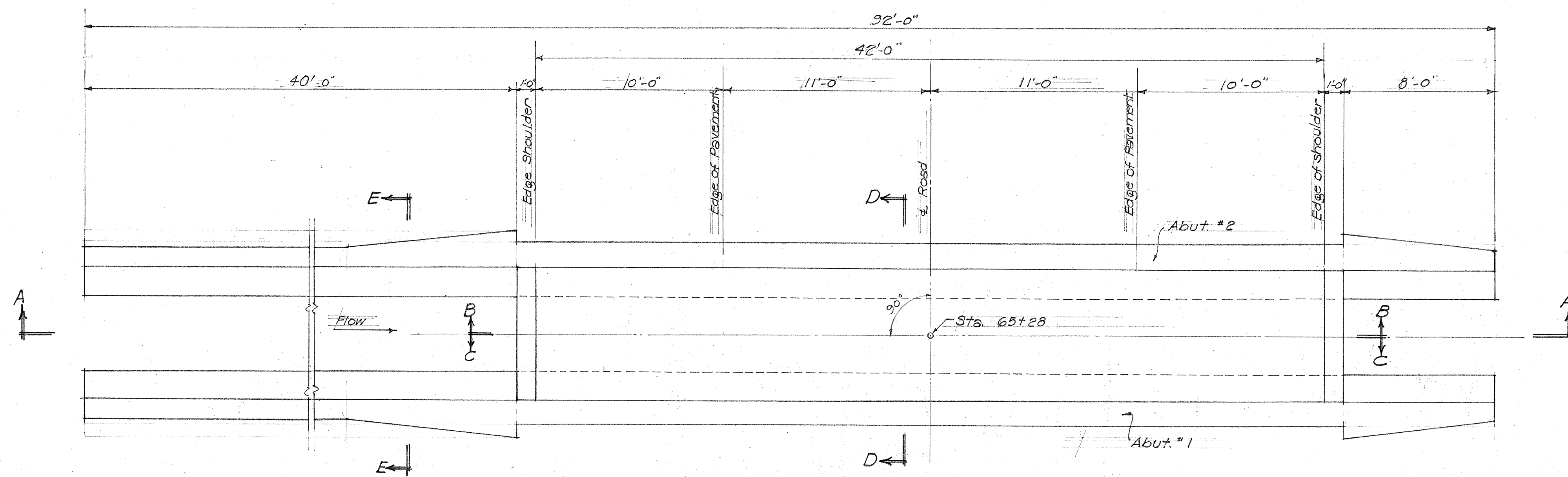


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4'x3.5' FLAT SLAB SYPHON
STA. 73+30
DEC. 1942 D.A.-NR-3

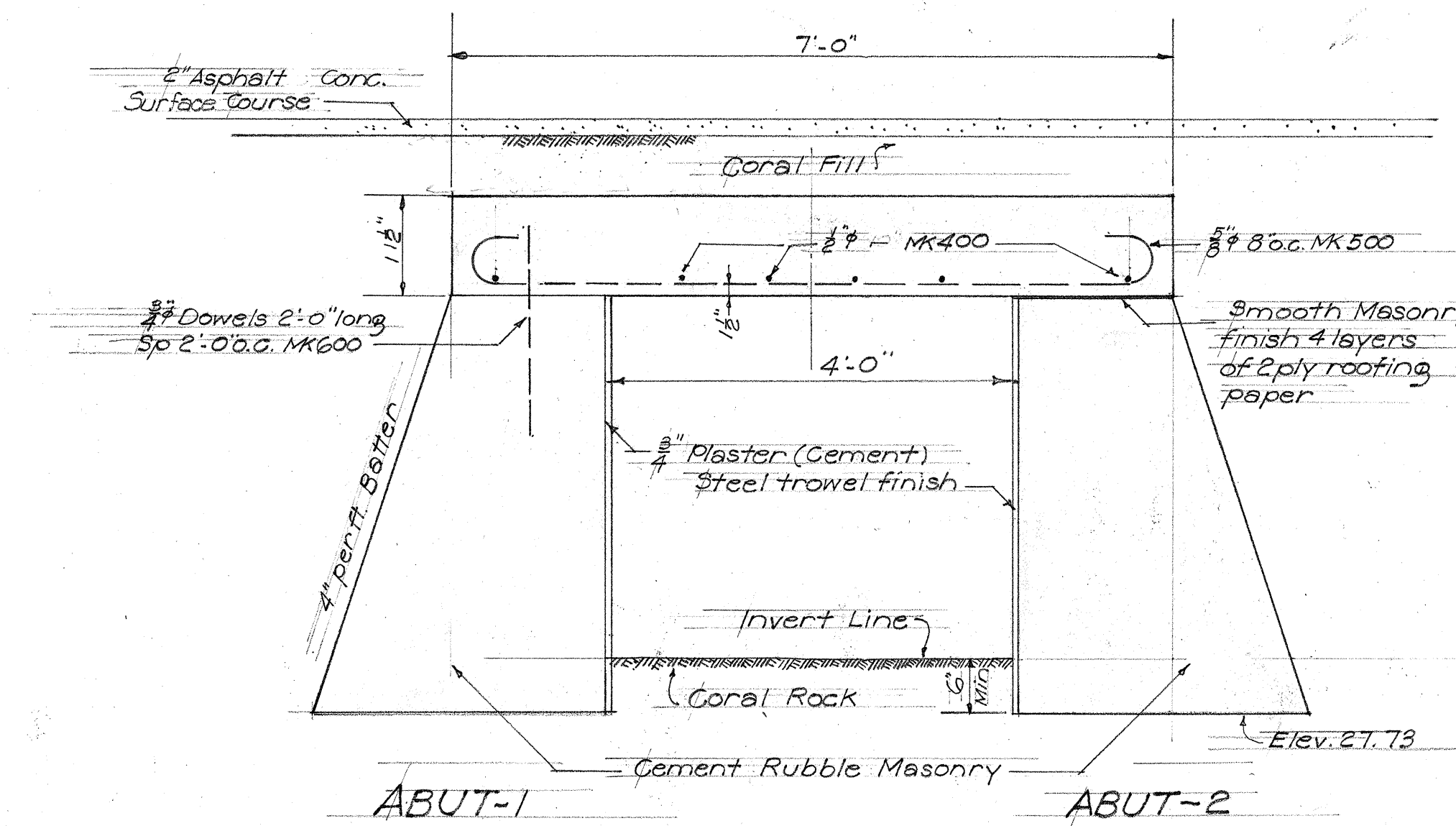
SHEET No. OF SHEETS

5113.9A

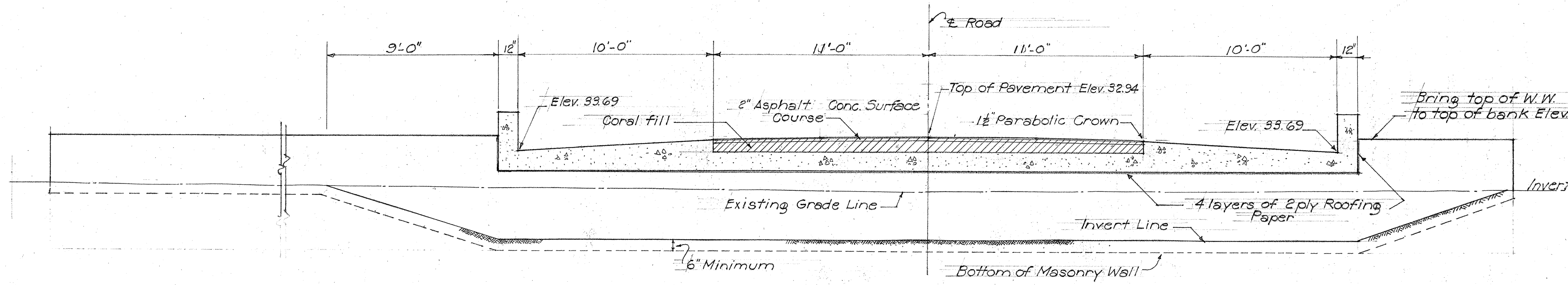
DESIGNED BY: *E.K.*
DRAWN BY: *E.K.*
CHECKED BY: *E.K.*
NOTE BOOK
QUANTITIES CHECKED BY: *E.K.*
No.



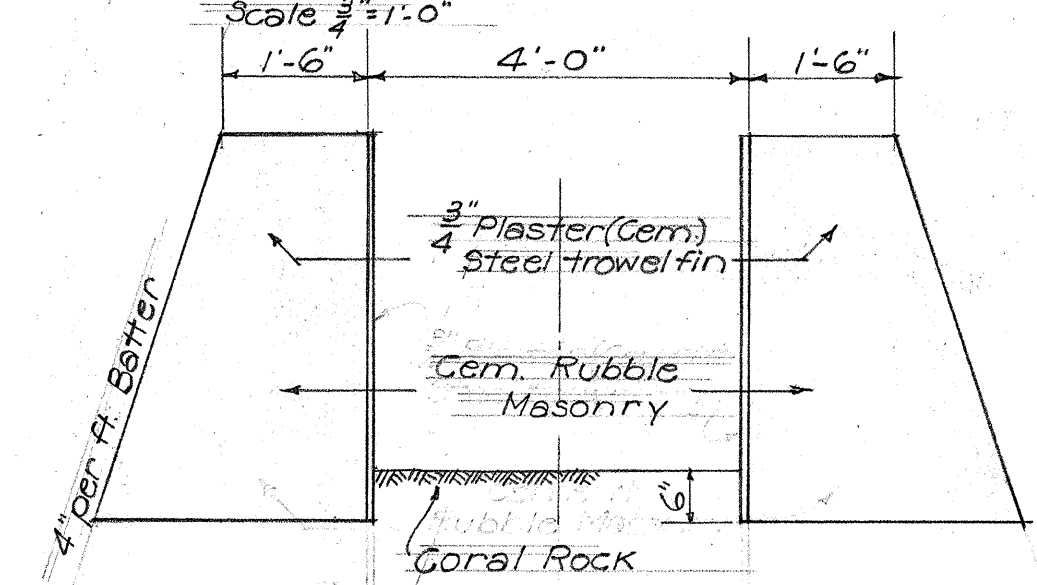
LAYOUT - PLAN
Scale $\frac{1}{4}$ " = 1'-0"



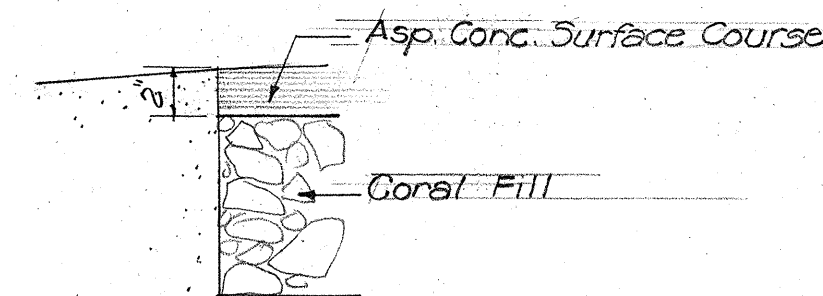
SECTION D-D
Scale $\frac{3}{8}$ " = 1'-0"



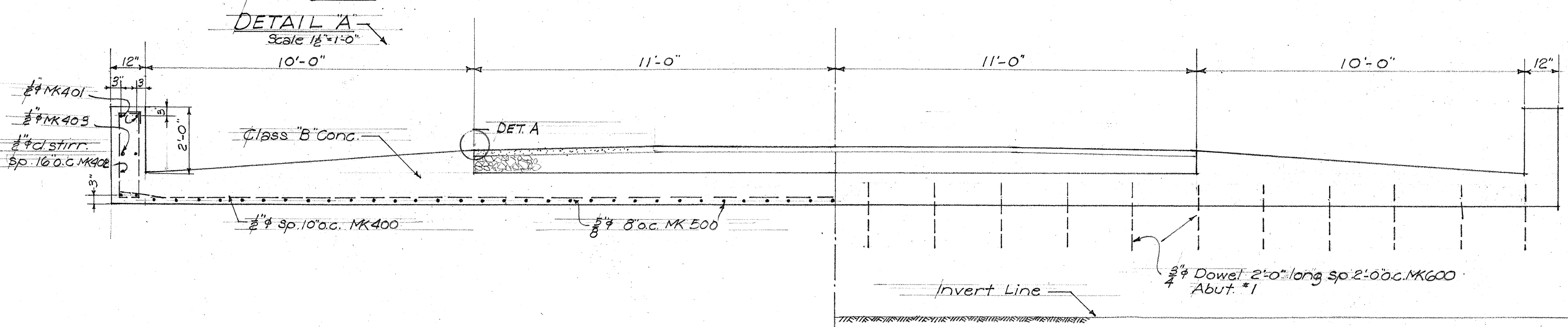
SECTION A-A
Scale $\frac{1}{4}$ " = 1'-0"



SECTION E-E
Scale $\frac{1}{2}$ " = 1'-0"



DETAIL A
Scale $\frac{1}{8}$ " = 1'-0"



ONE-HALF SECTION B-B SHOWING REINFORCEMENT
Scale $\frac{3}{8}$ " = 1'-0"

ONE-HALF SECTION C-C
Scale $\frac{3}{8}$ " = 1'-0"

ESTIMATED QUANT.

ITEM	QUANTITY
Class B Conc.	13.5 c.y.
Reinf. Steel	865 lbs
C. R. Masonry	56 c.y.
Str. Excavation	67 c.y.
Channel Excavation	14 c.y.

NOTE: For further details see Sheet 9A.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

4' x 3.5' FLAT SLAB SYPHON

STA. 65+28

DEC. 1942 DA-NR-3

SHEET No. OF SHEETS

5113.913