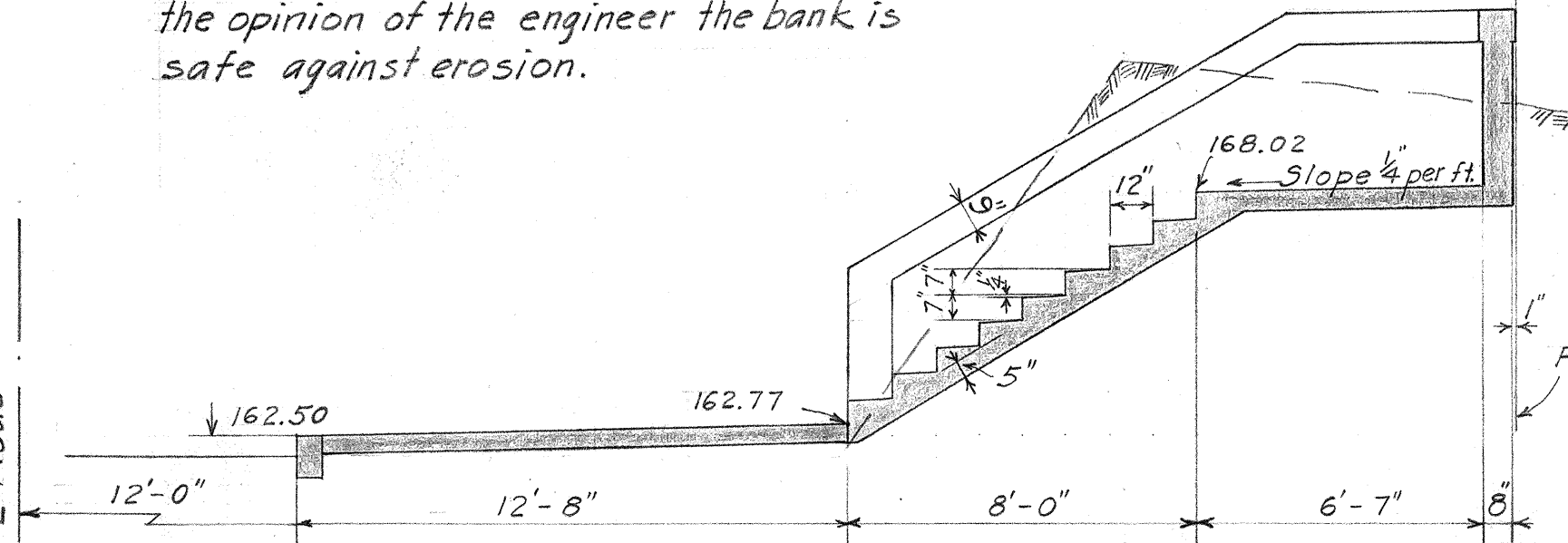
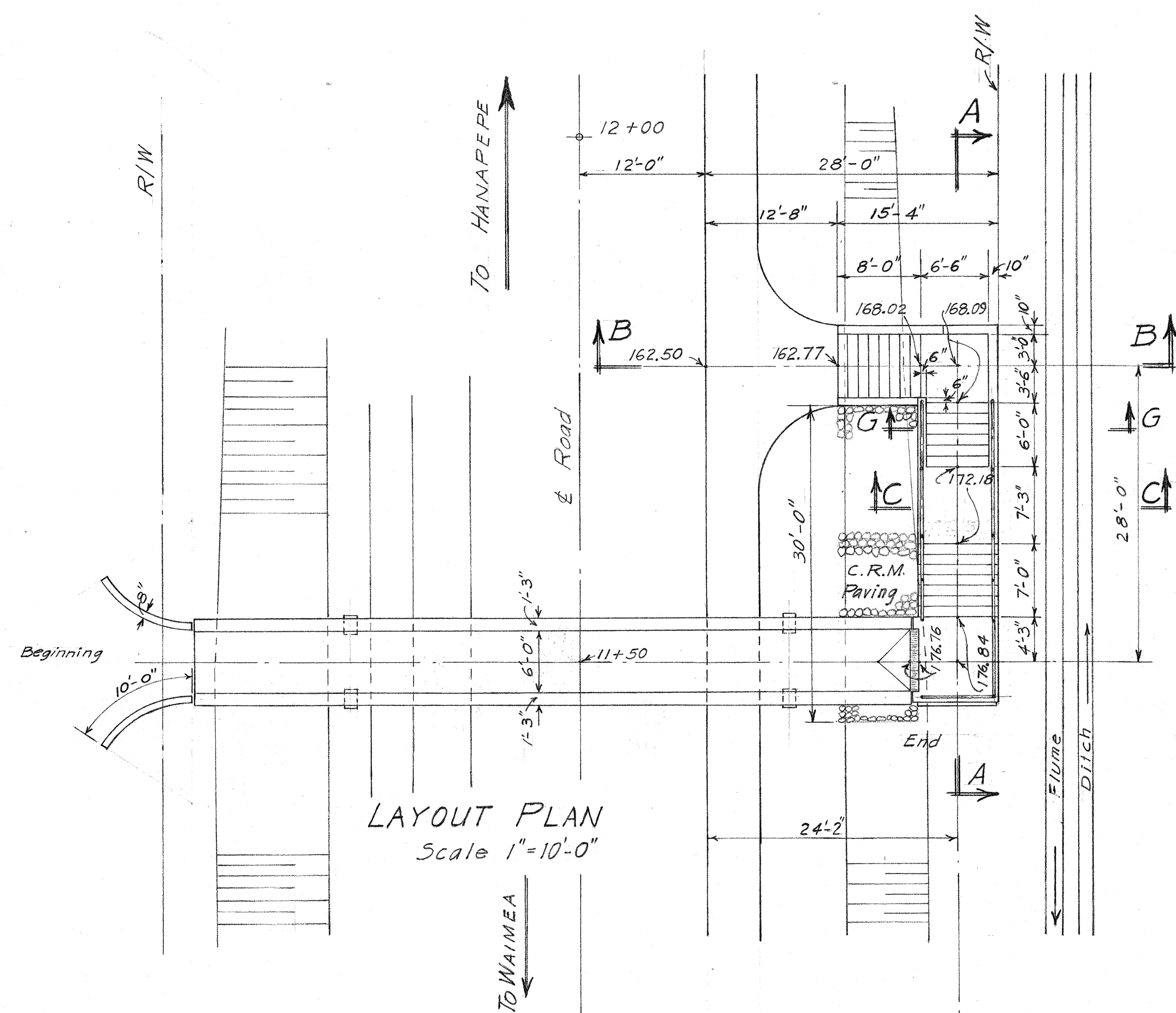
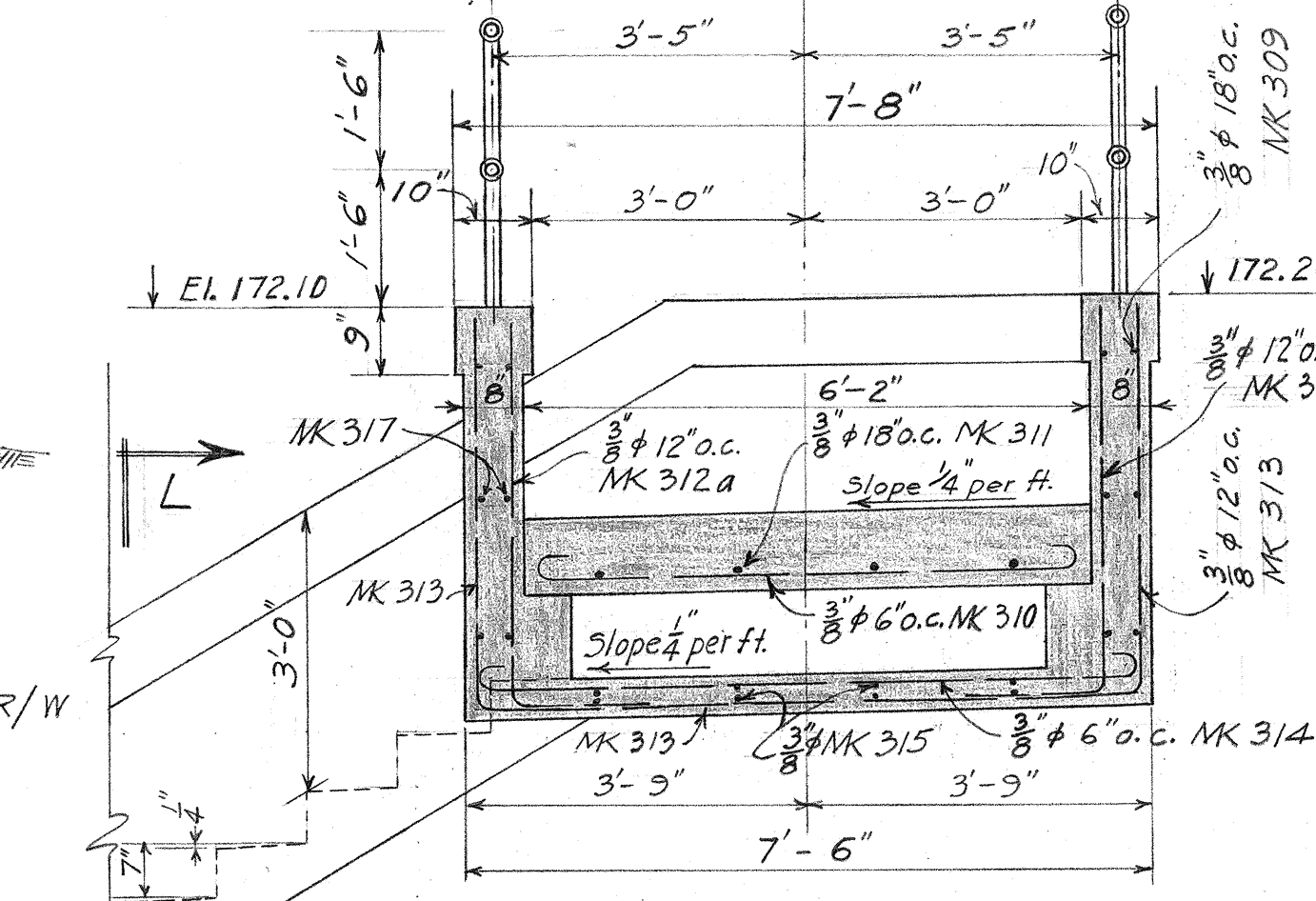


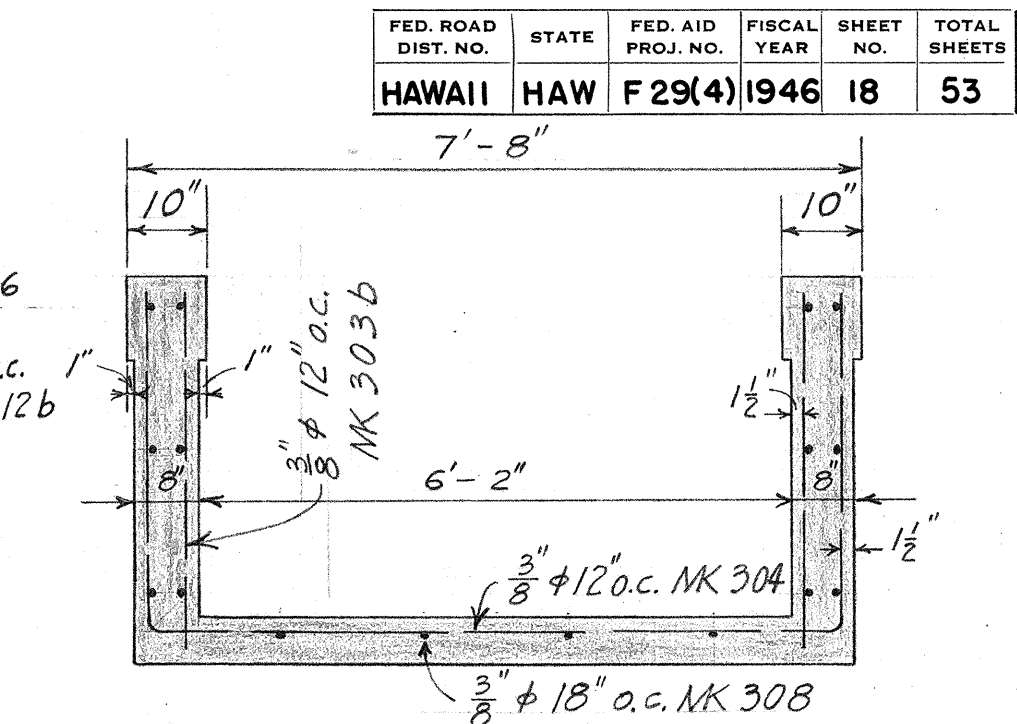
C.R.M. Paving on bank may be omitted if in the opinion of the engineer the bank is safe against erosion.



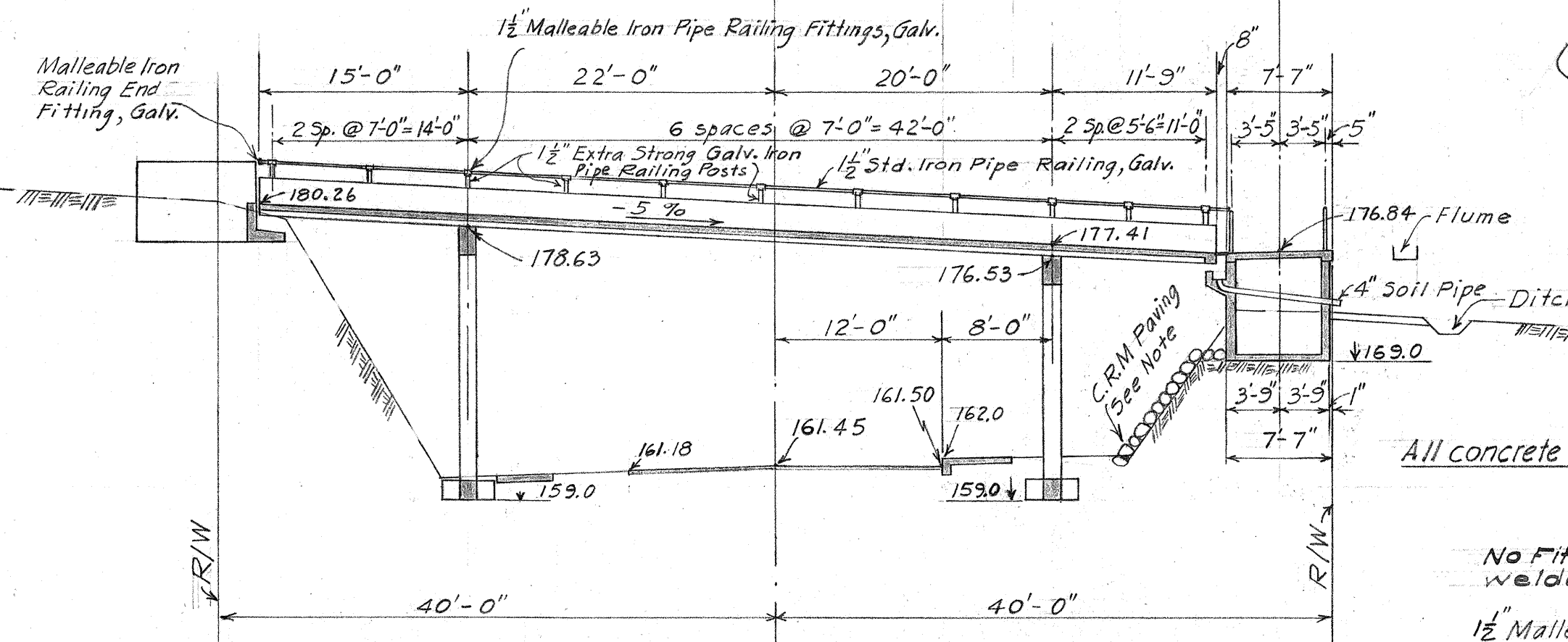
SECTION B-B
 $\frac{1}{4}'' = 1'-0''$



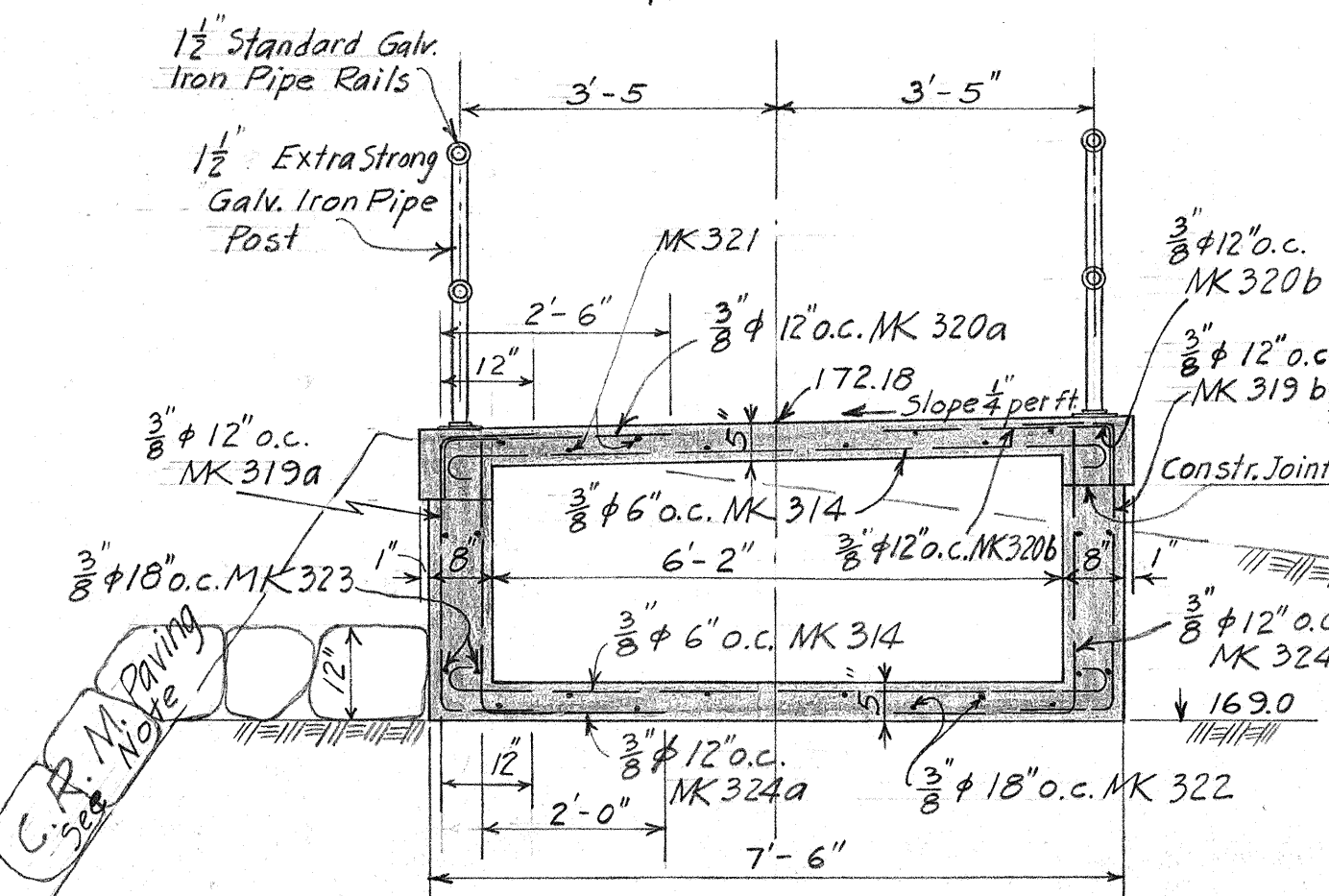
SECTION G-G
 $\frac{1}{2} = 1' - 0''$



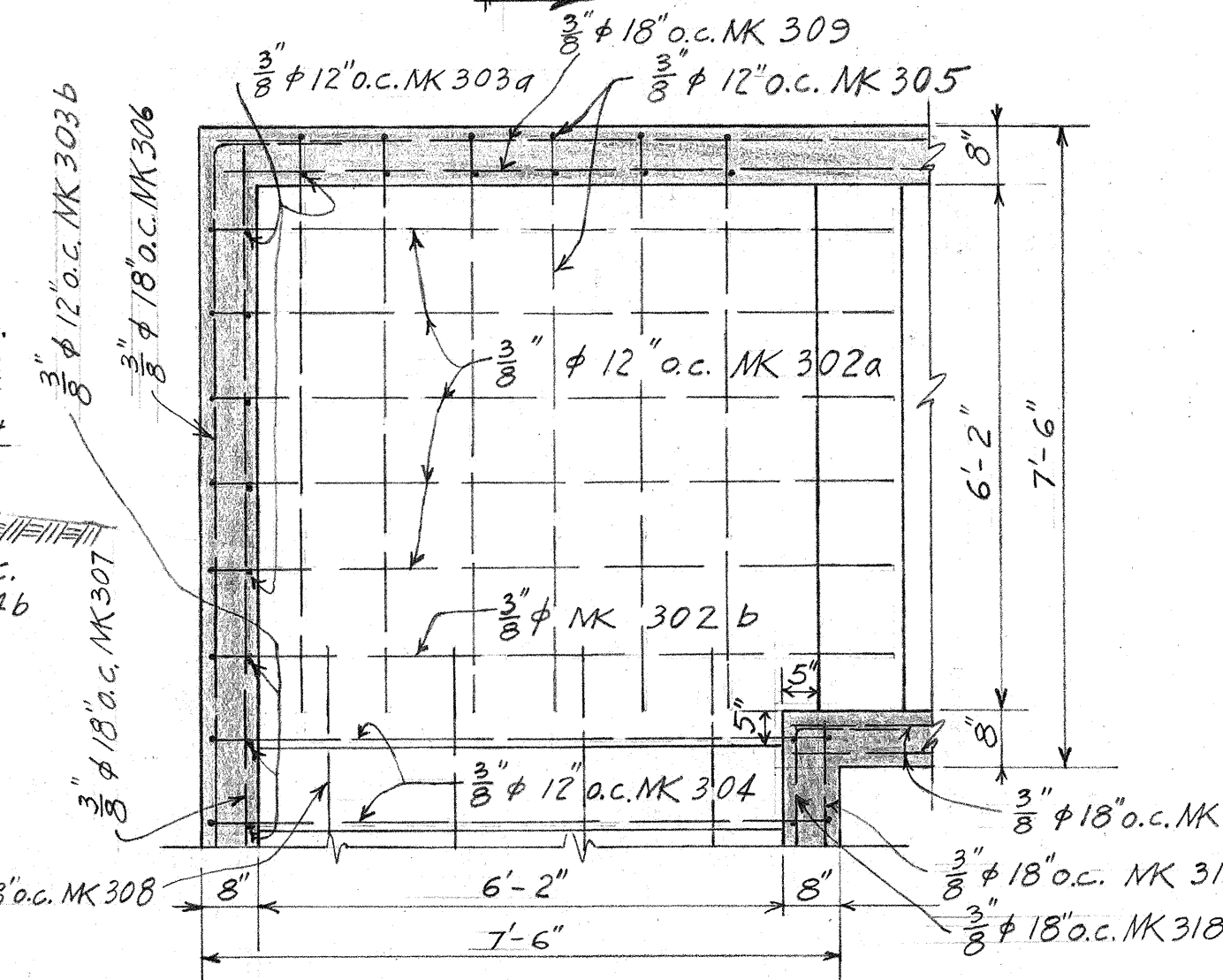
SECTION L-L
 $\frac{1}{2}'' = 1'-0''$



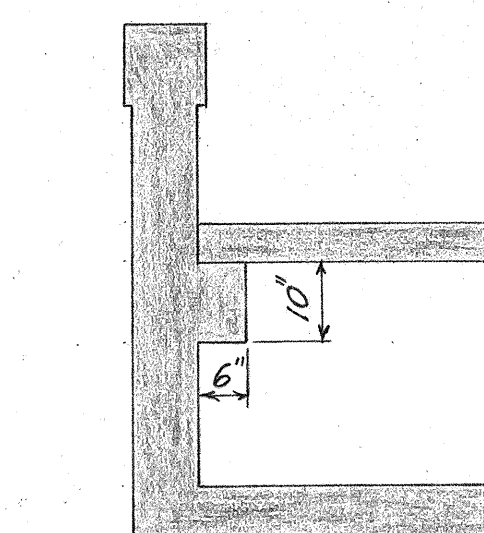
SECTION AT STA. 11+50 *Straight Bends. Pipe galvaniz*
Scale 1" = 10' - 0" *Rail welded at one end*



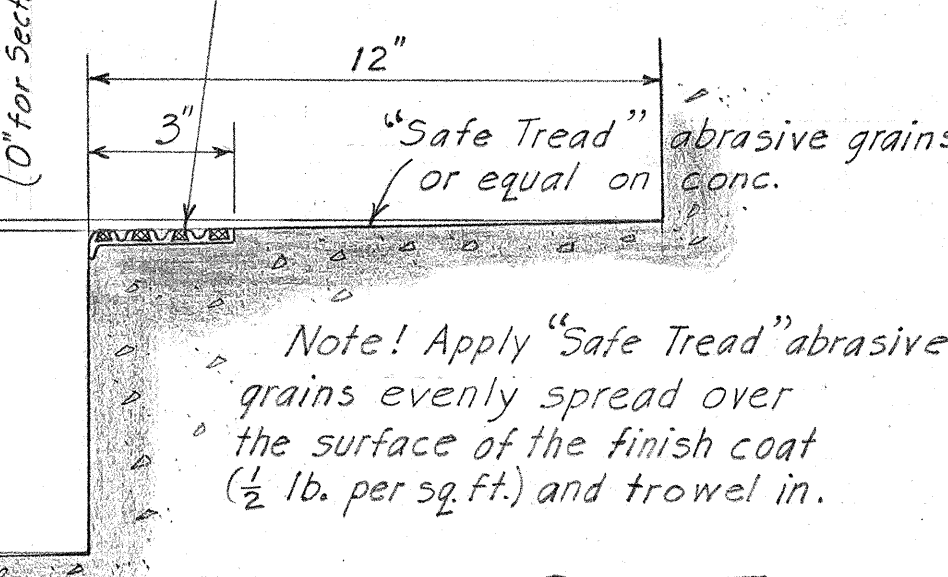
SECTION C-C
 $\frac{1}{2} = 1'-0''$



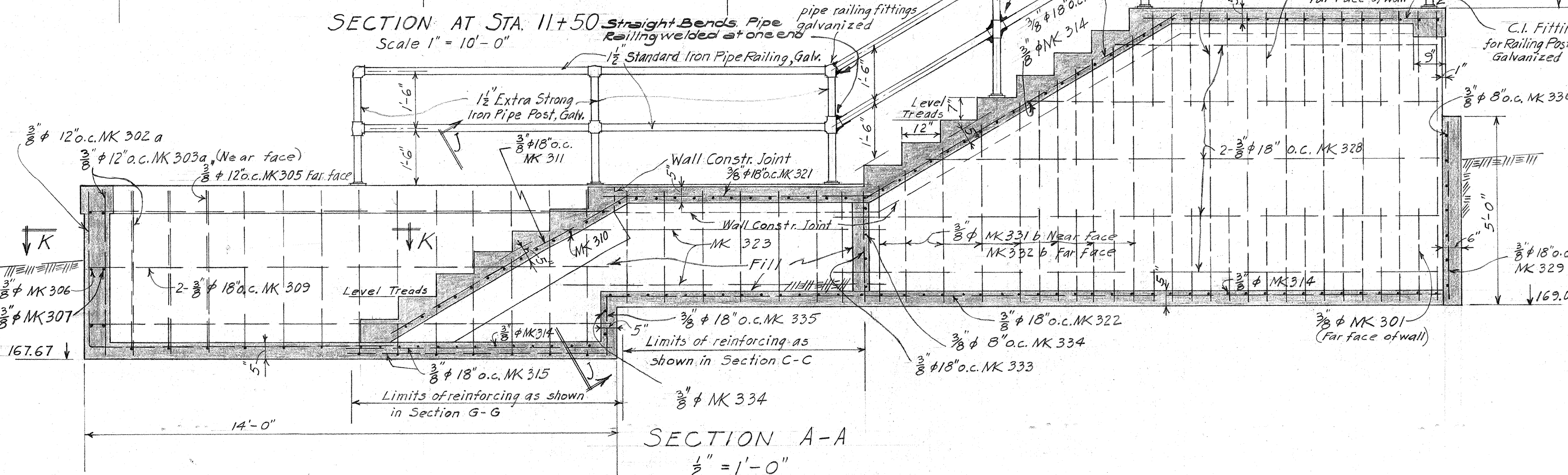
SECTION K-K
 $\frac{1}{2} = 1'-0''$



SECTION J-J



DETAIL OF CONC. TREAD
3" = 1'-0"



SECTION A-A
 $\frac{1}{2}'' = 1' - 0''$

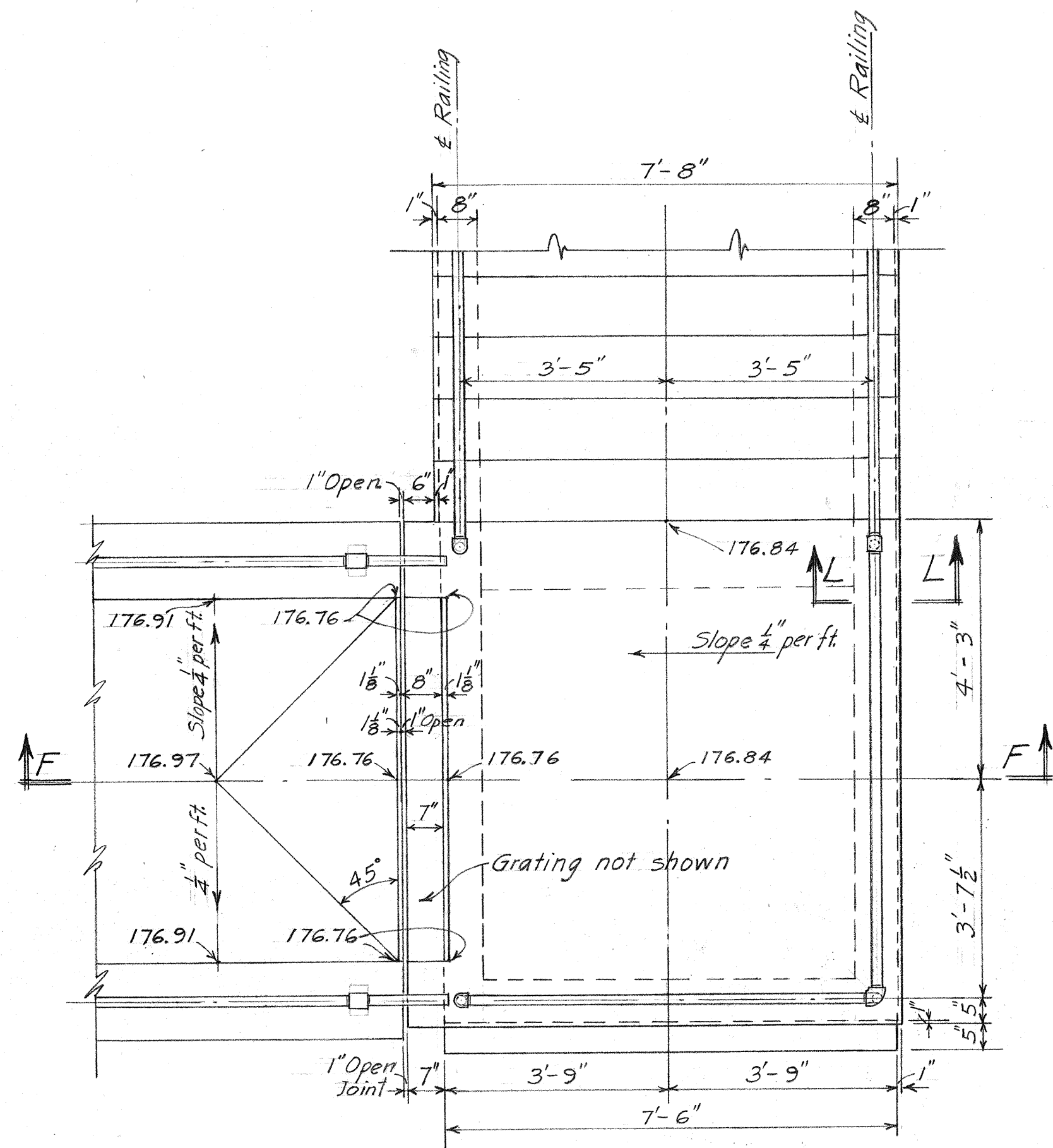
ESTIMATED QUANTITIES

Class A-1 Concrete	59.8 Cu.Yds.
Reinf. Steel	6808. Lbs.
Structural Excavation	68.5 Cu.Yds.
C.R.M. Paving	13.5 Cu.Yds.
Single Rail Pipe Railing	134. Linear Ft.
Double Rail Pipe Railing	56. Linear Ft.

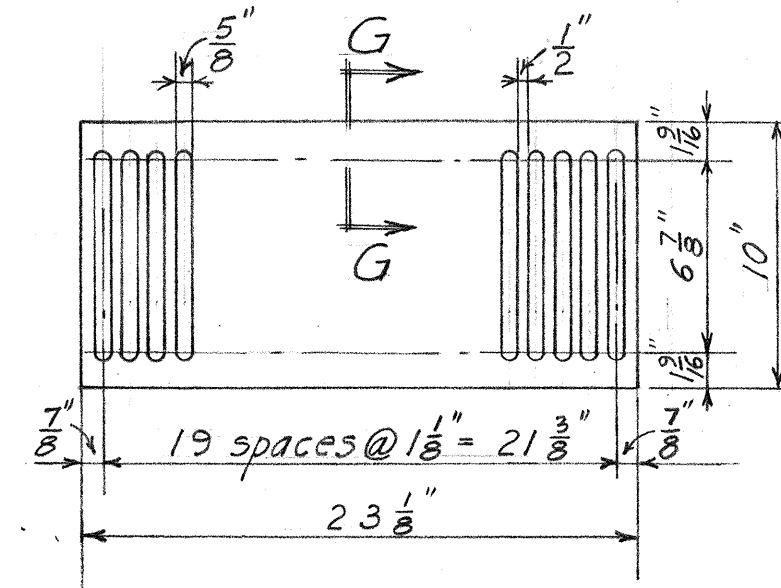
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UNDERPASS
STATION 11 + 50

KAUAI BELT ROAD F.A.P.F 29(4)
August, 1946

SHEET No 1 OF 3 SHEETS

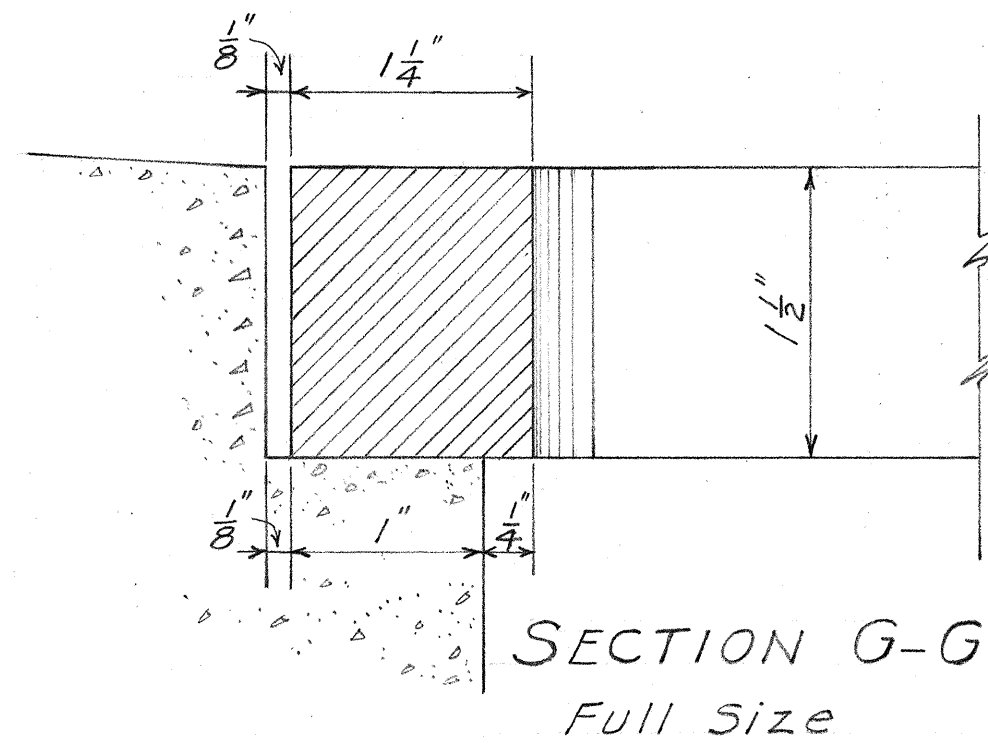


PLAN M-M
 $\frac{1}{2}'' = 1'-0''$



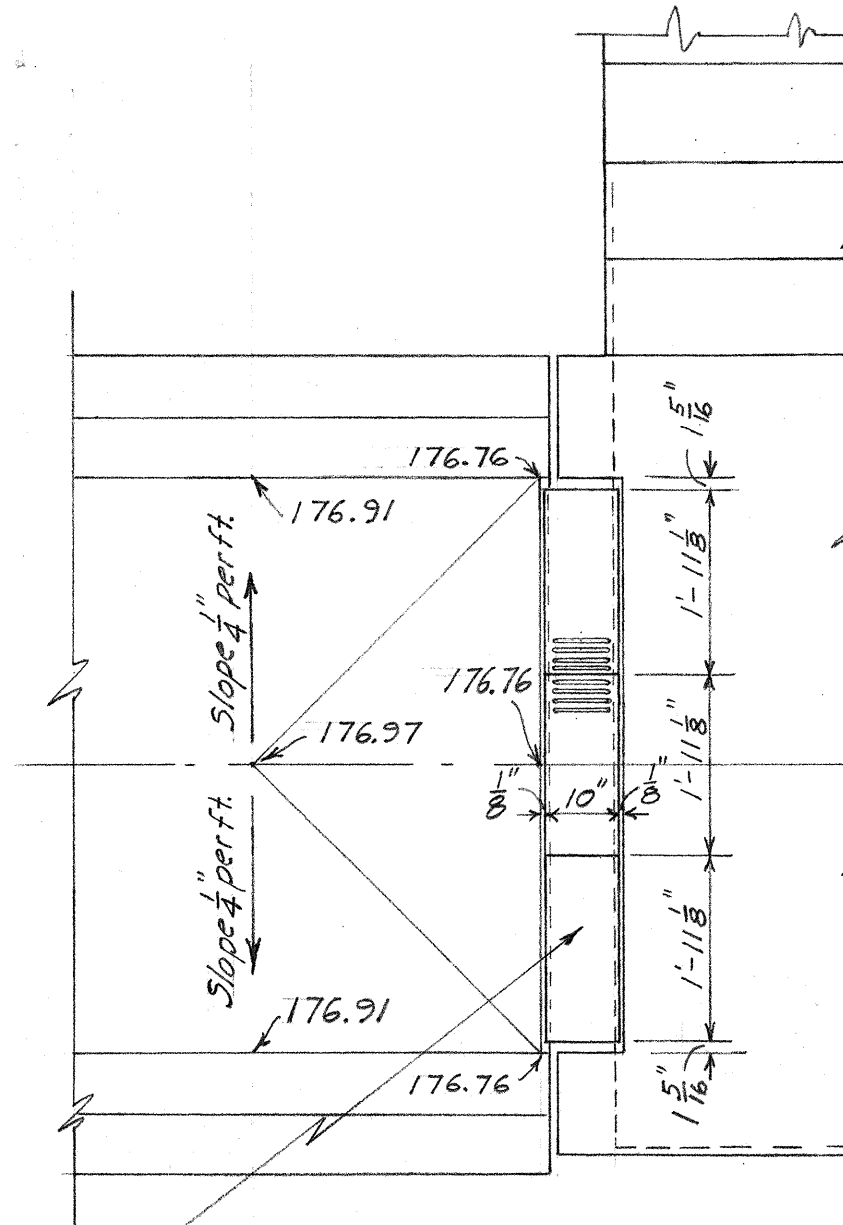
PLAN C.I. GRATING
3 Required
Scale $1\frac{1}{2}'' = 1'-0''$

Note: C.I. Gratings are incidental to concrete and will not be paid for separately.

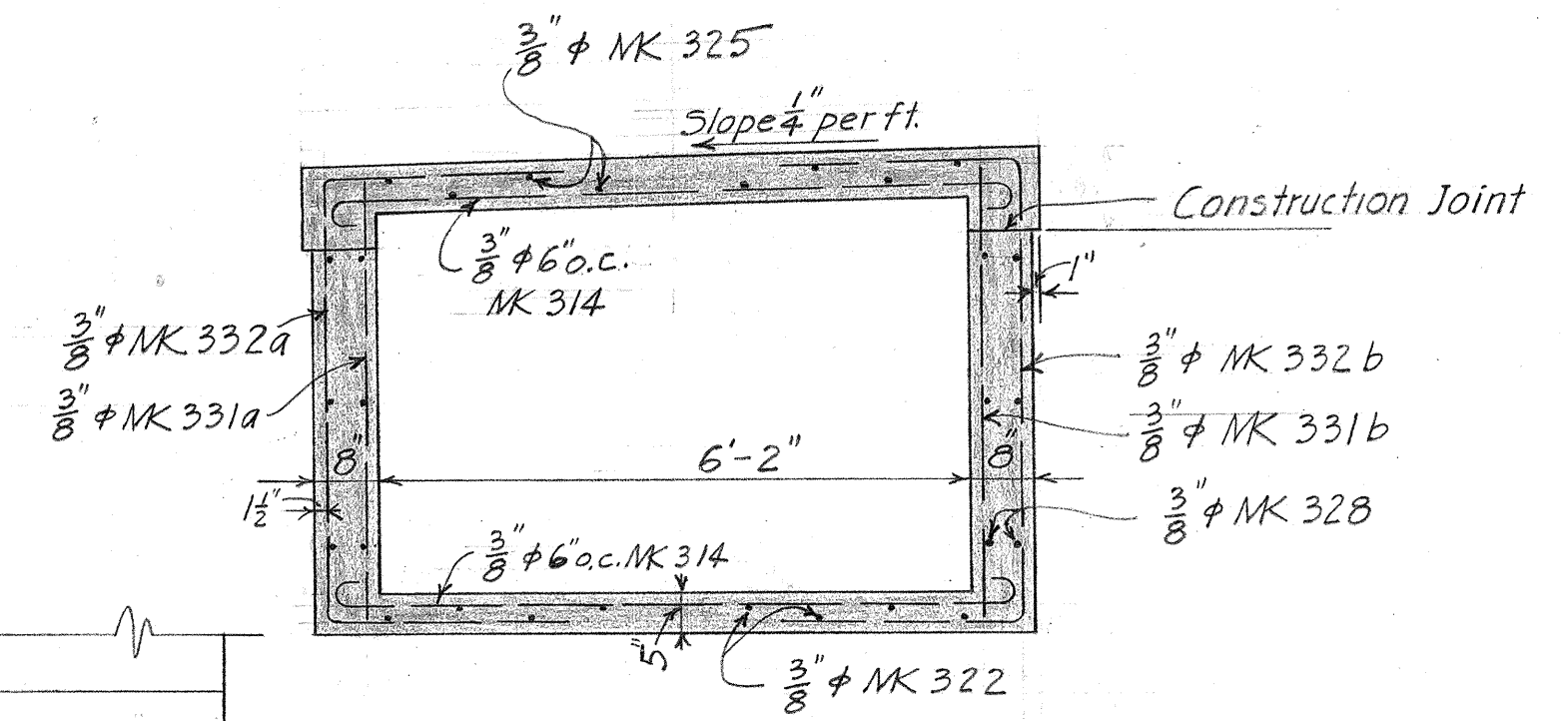


SECTION G-G
Full Size

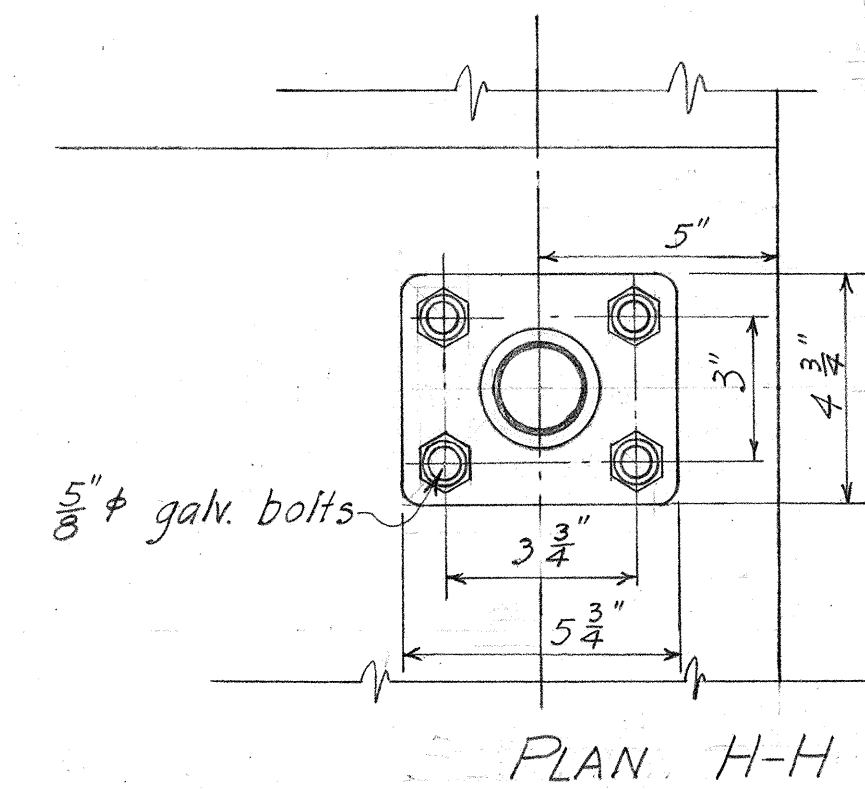
See Detail for Grating



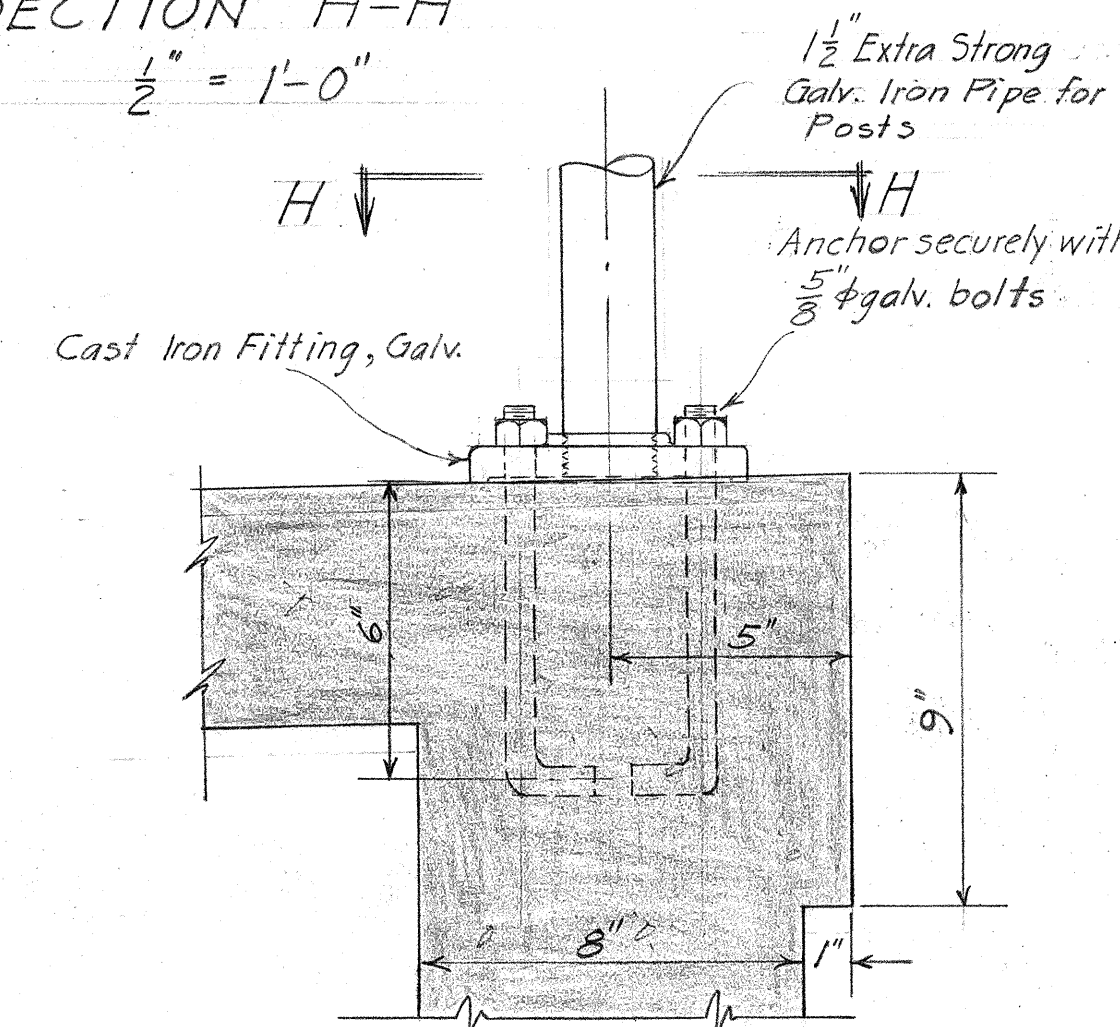
PLAN AT END
 $\frac{1}{2}'' = 1'-0''$



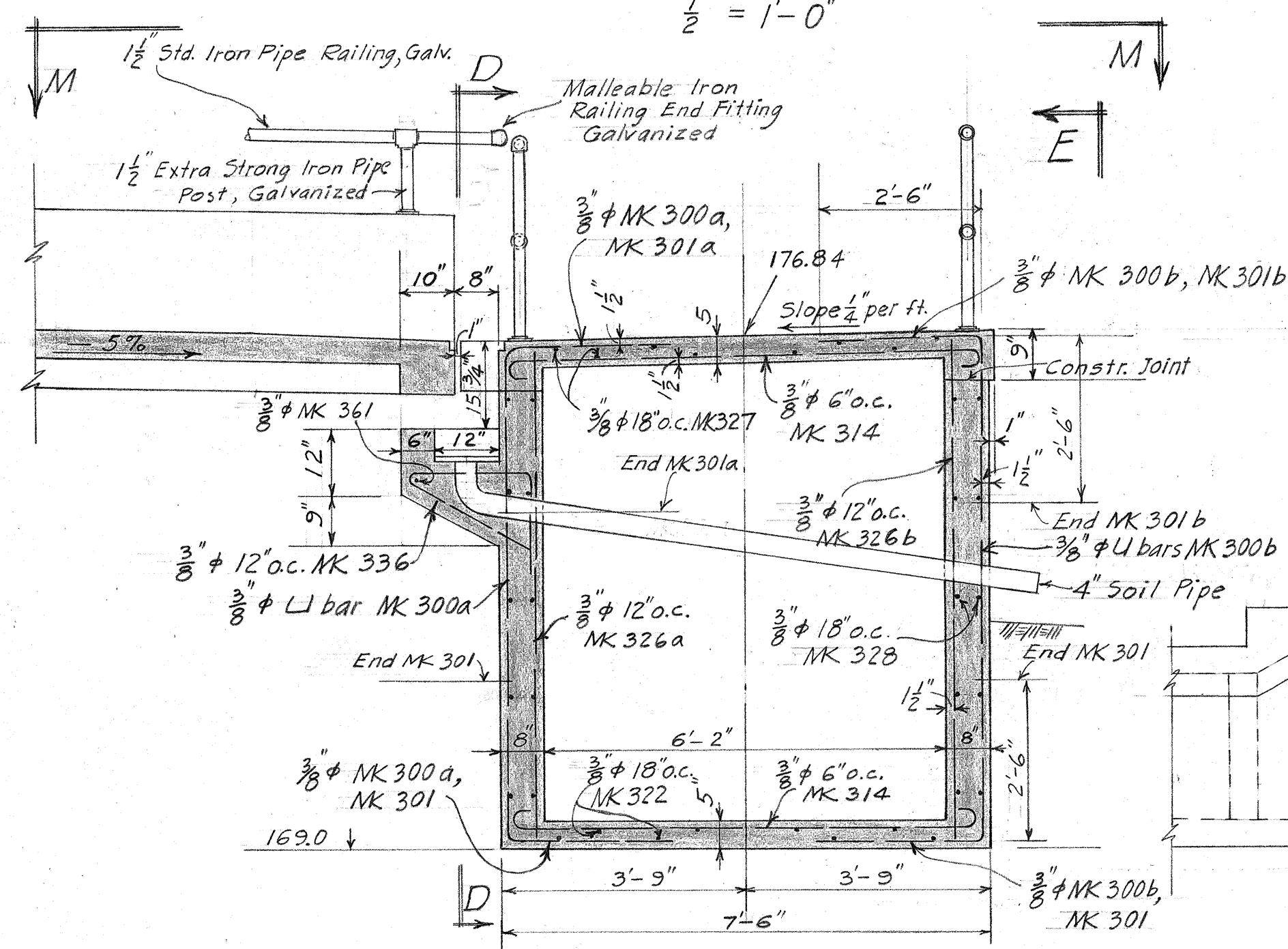
SECTION H-H
 $\frac{1}{2}'' = 1'-0''$



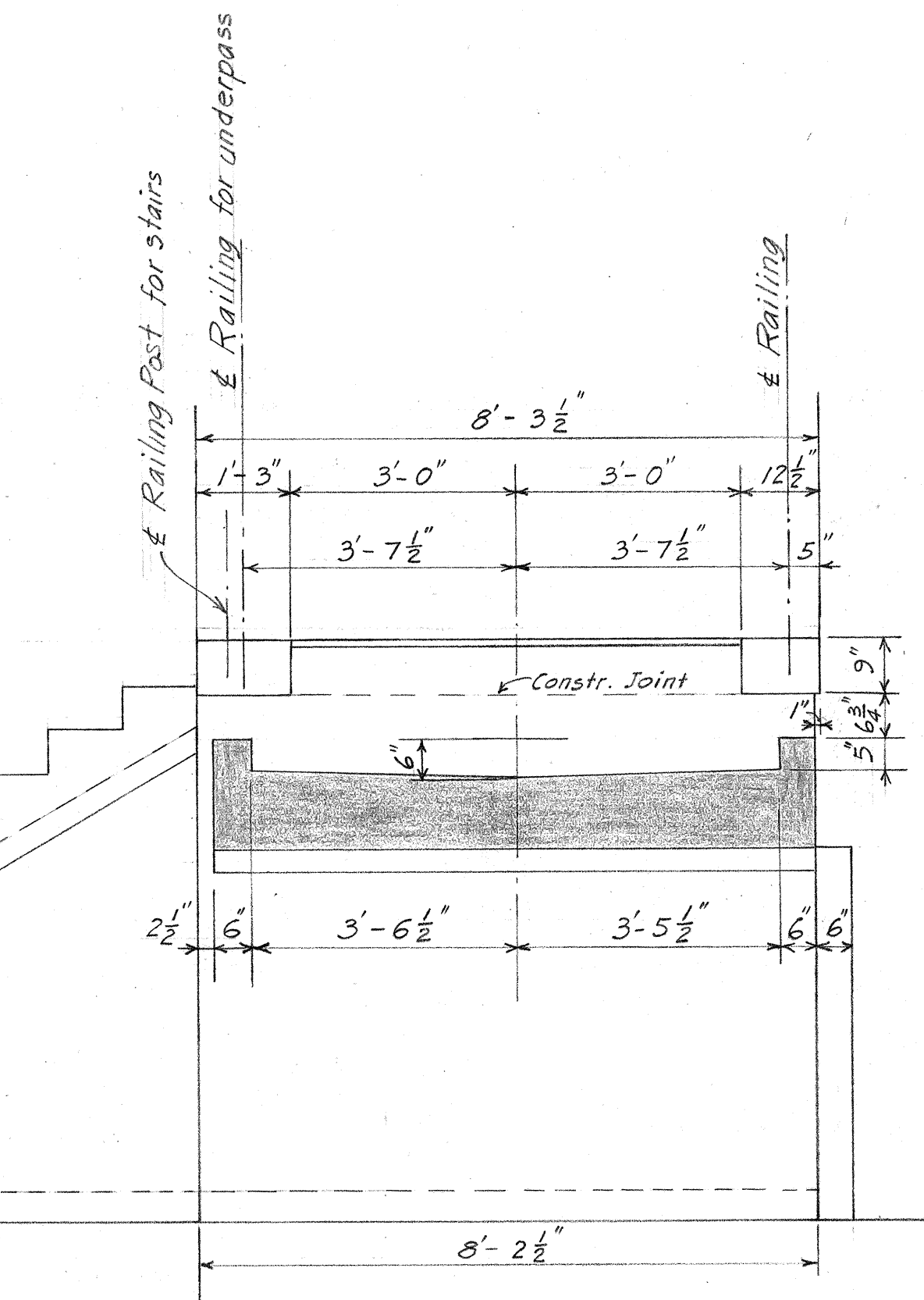
PLAN H-H



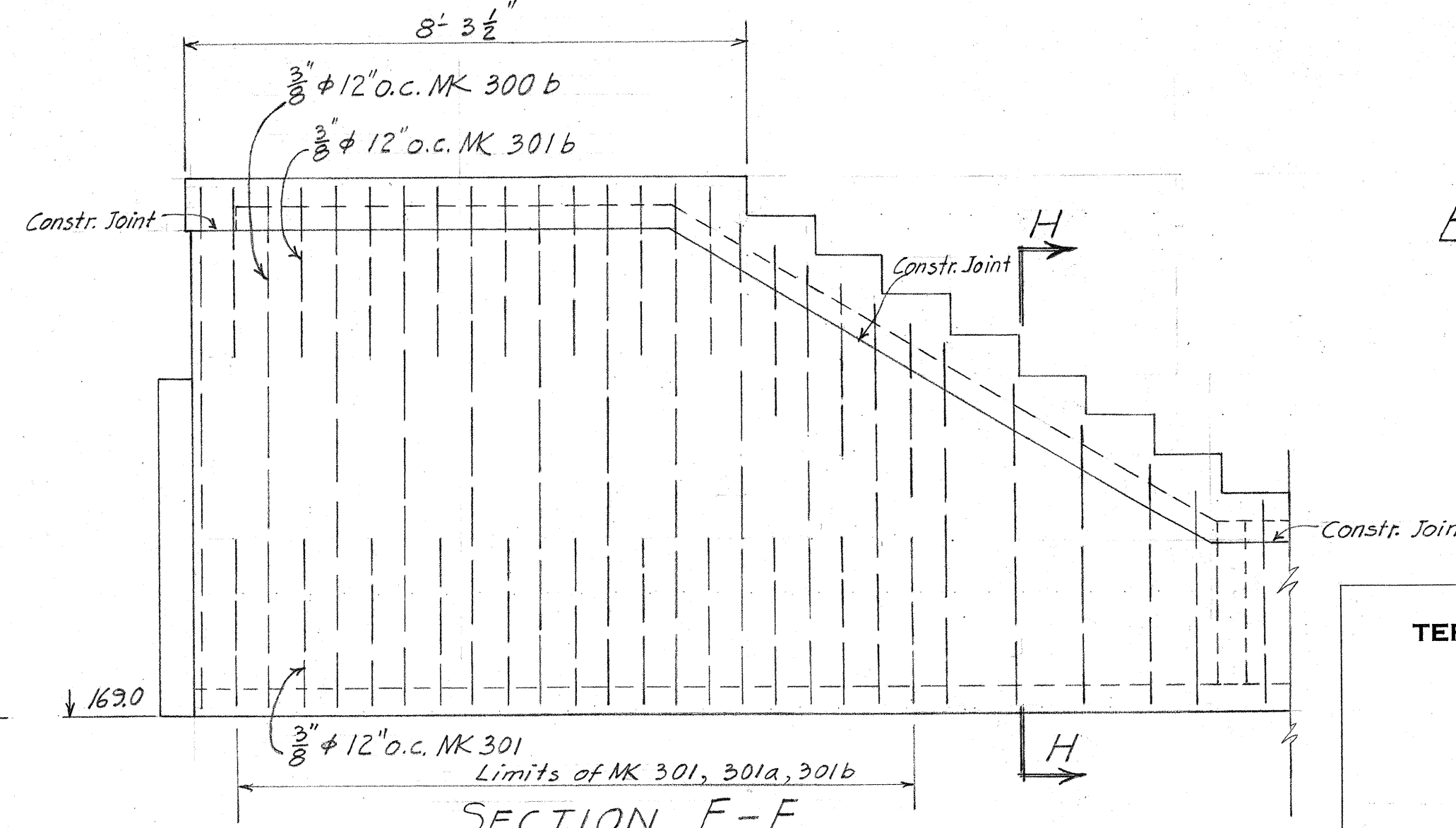
ELEVATION L-L



SECTION F-F
 $\frac{1}{2}'' = 1'-0''$



SECTION D-D
 $\frac{1}{2}'' = 1'-0''$



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

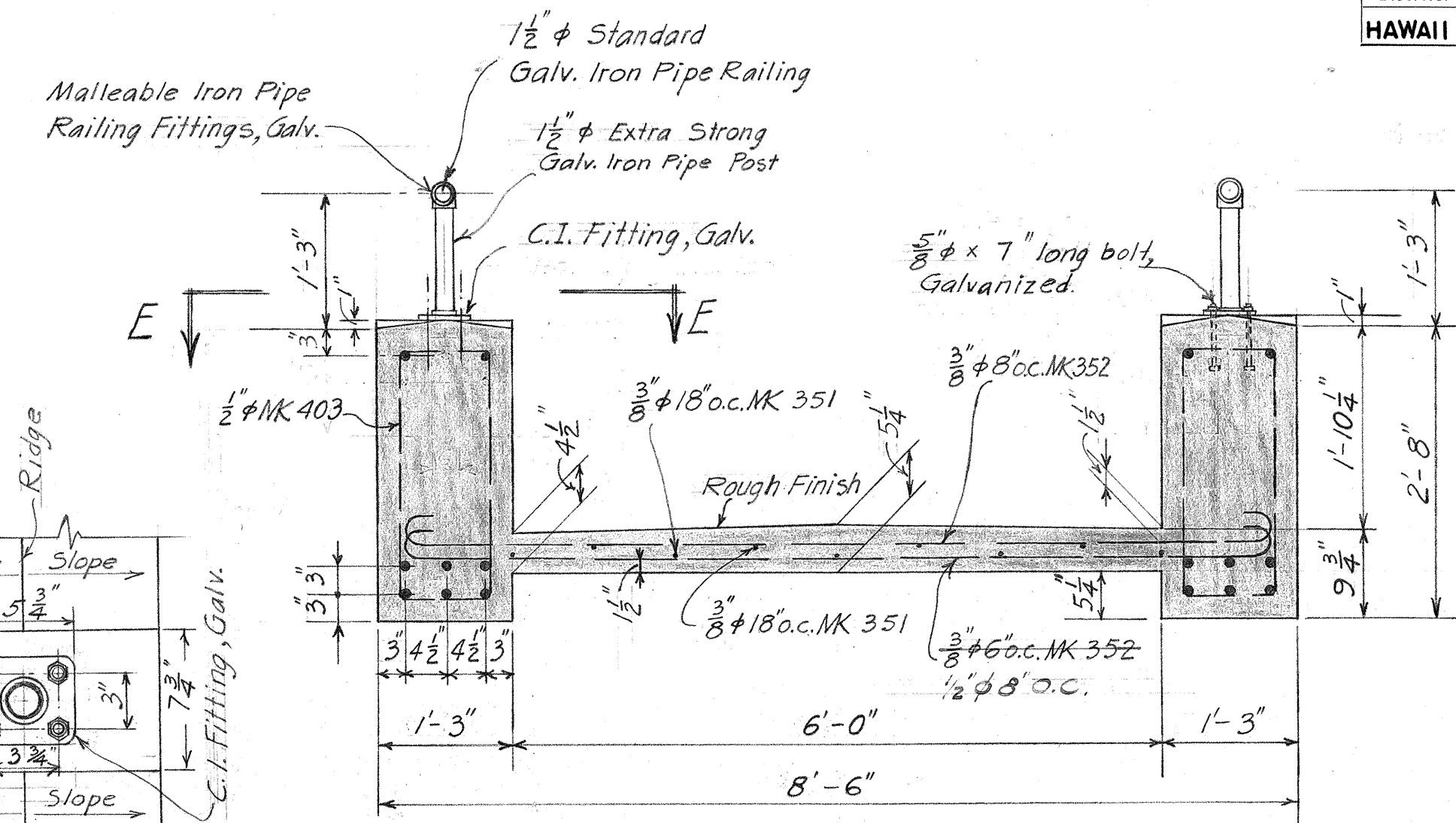
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UNDERPASS
STATION 11+50
KAUAI BELT ROAD F.A.P.F 29(4)
AUGUST, 1946
SHEET No 2 OF 3 SHEETS

3185.19

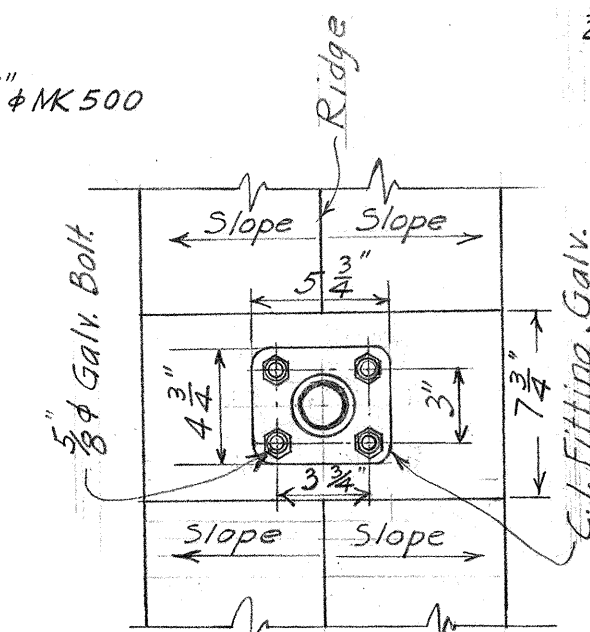
DESIGNED BY: J. L. Okamoto
DRAWN BY: J. L. Okamoto
CHECKED BY: J. L. Okamoto
DATE: Aug. 1946
ORIGINAL PLAN NOTE BOOK No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F29(4)	1946	20	53

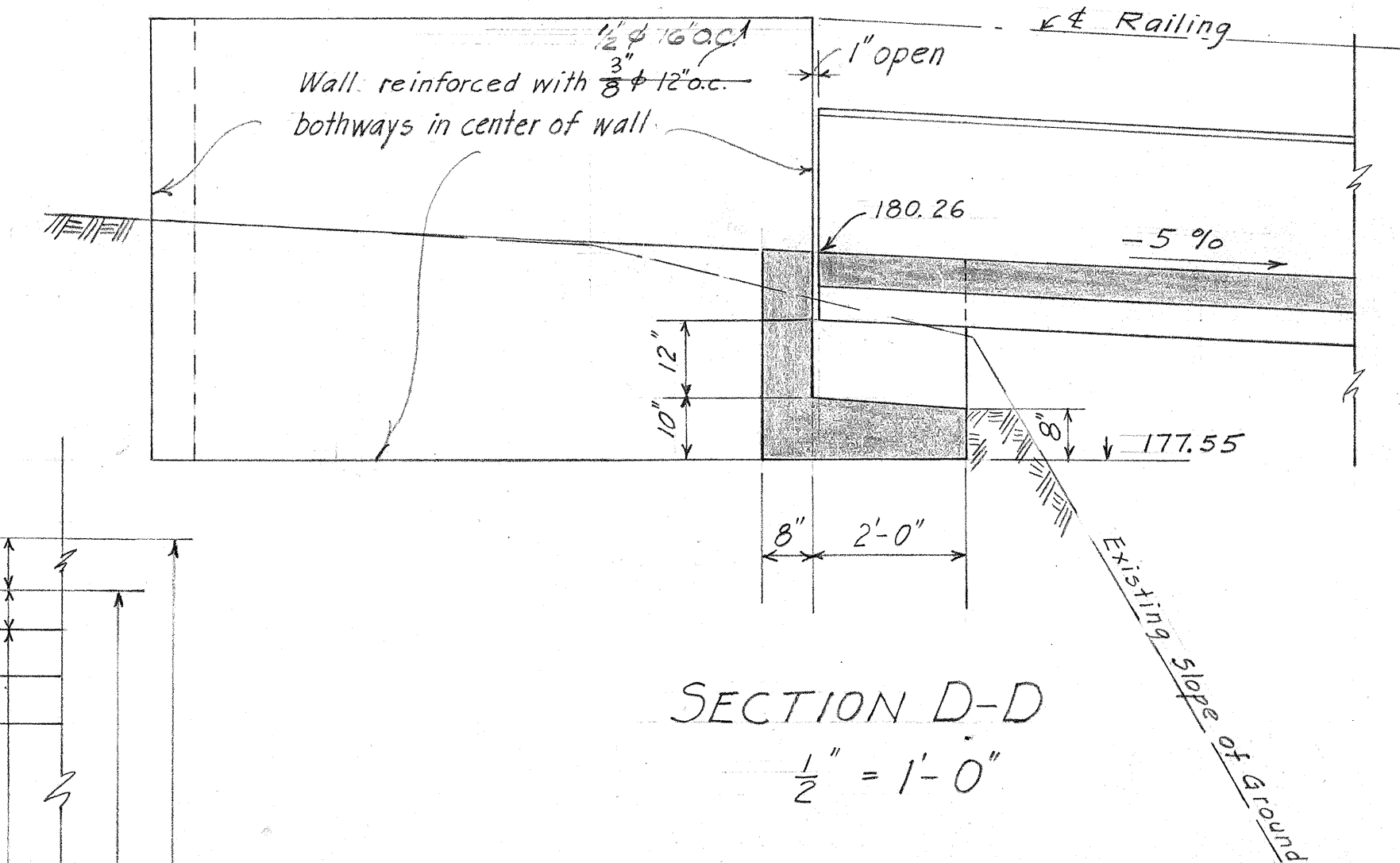
Design Features: Live Load 100[#] per sq. ft.
 $f_c = 1000^{\#}$
 $f_s = 20000^{\#}$
 Steel Intermediate Grade



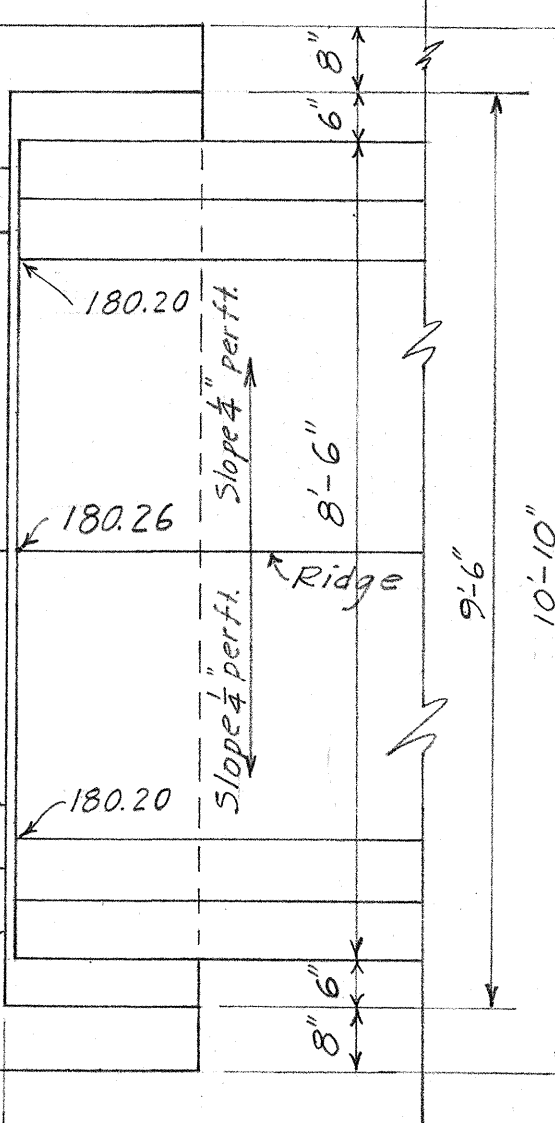
SECTION C-C
 $\frac{3}{4} = 1'-0''$



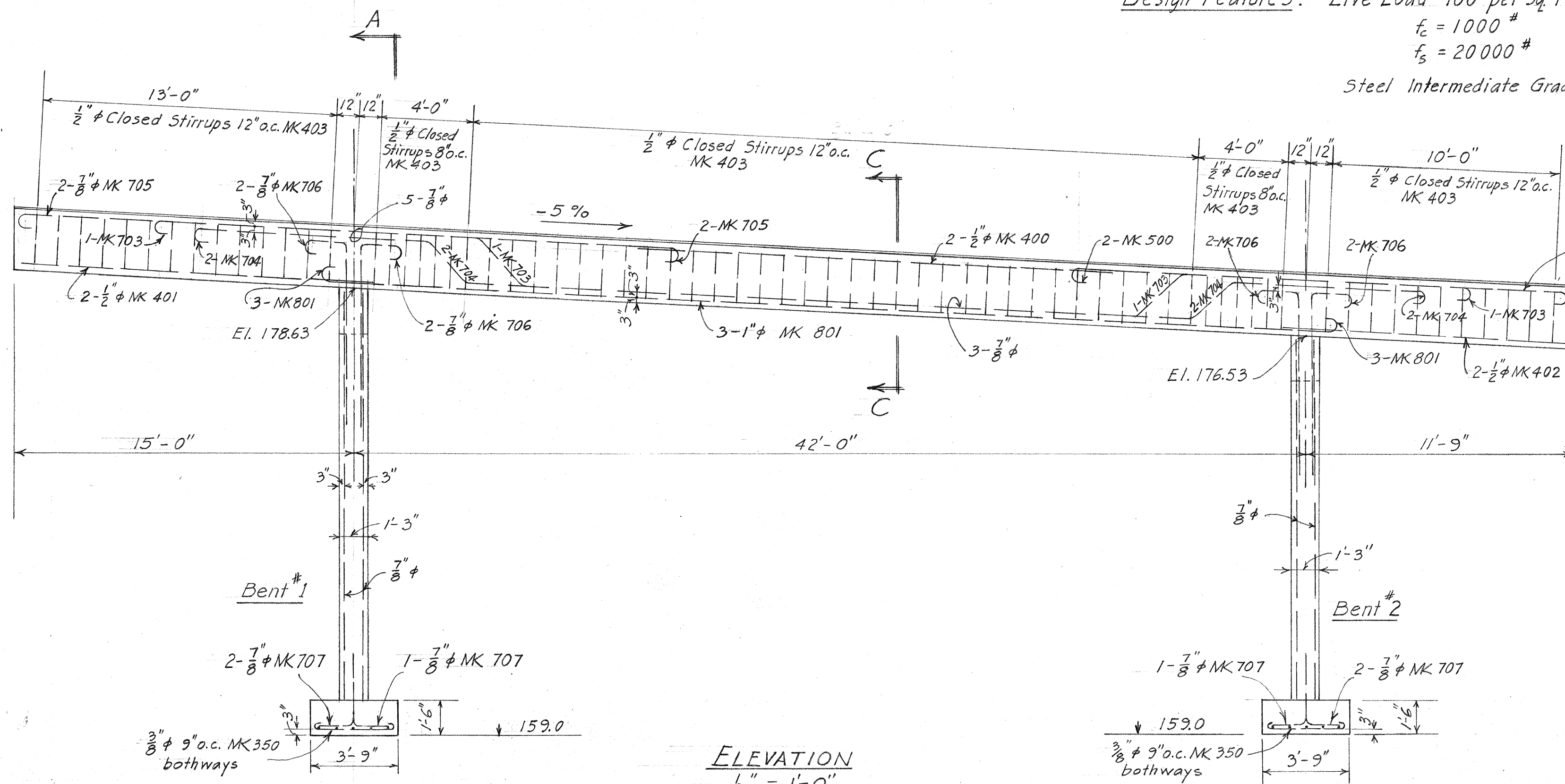
SECTION E-E
1 1/2" = 1'-0"



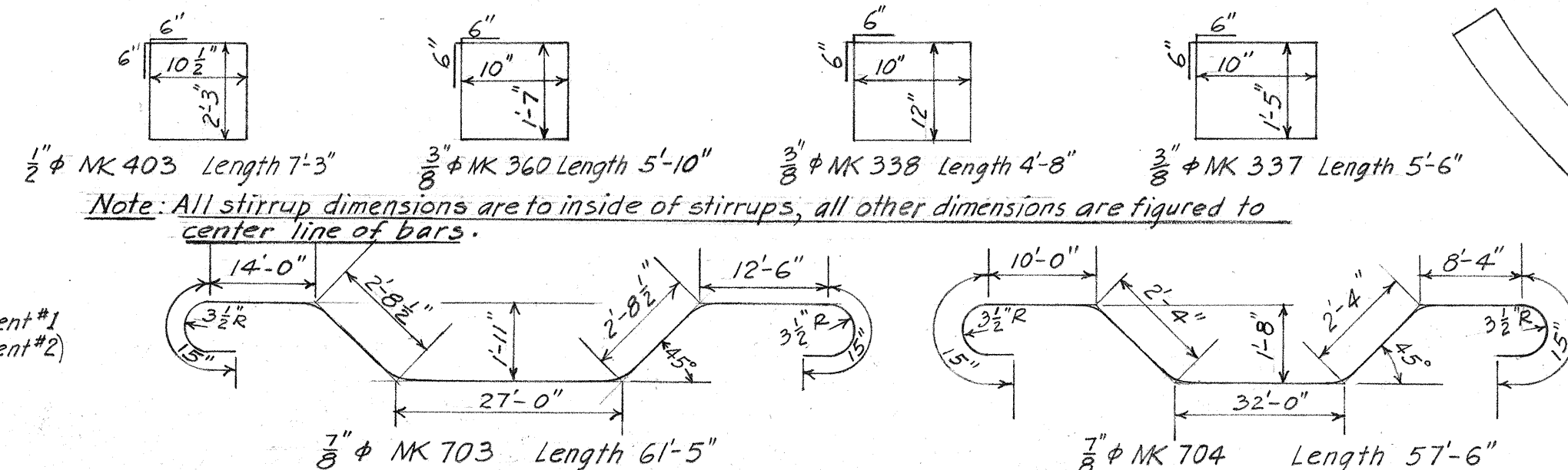
SECTION D-D
 $\frac{1}{2}'' = 1'-0''$



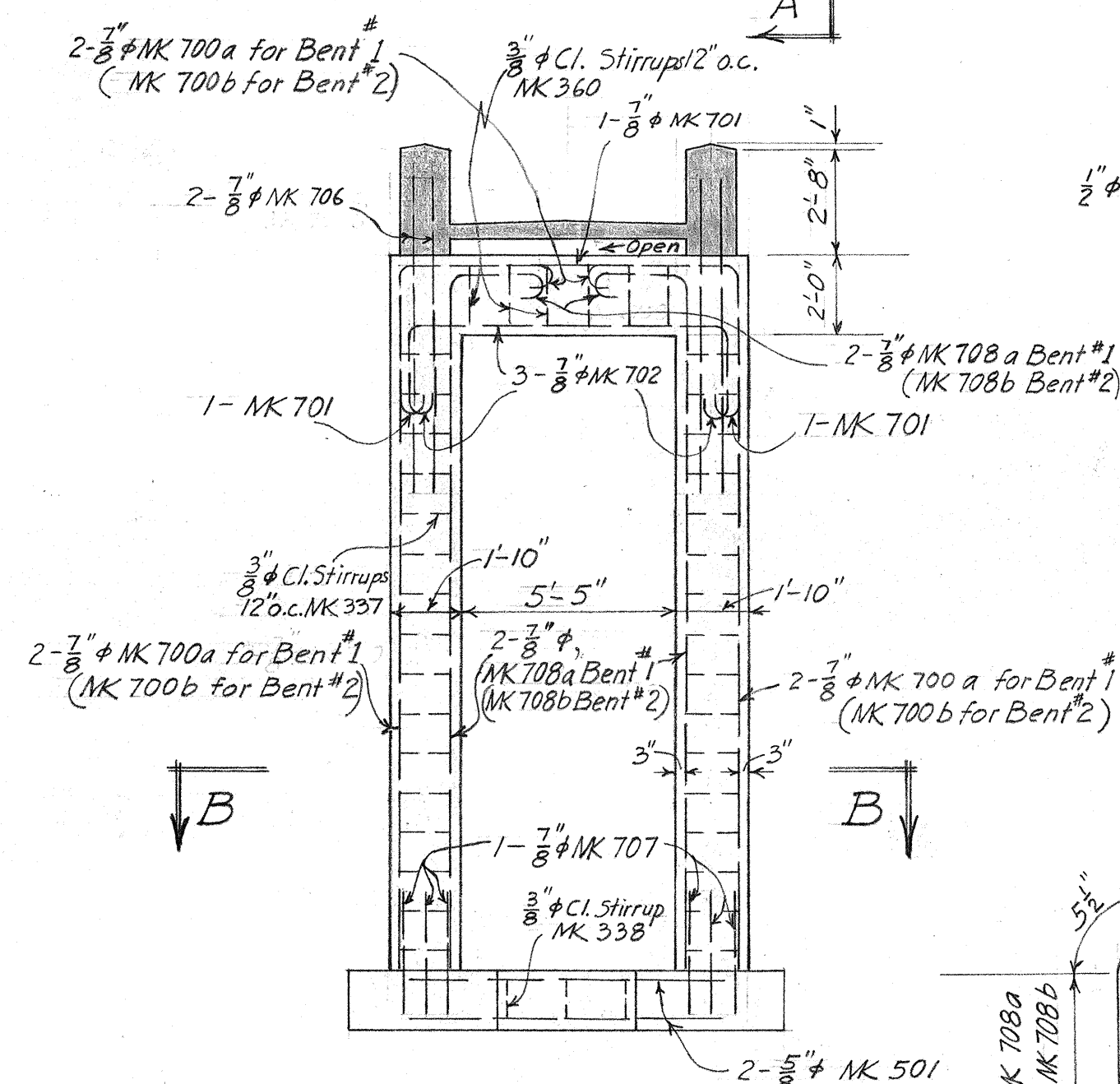
PLAN AT BEG.



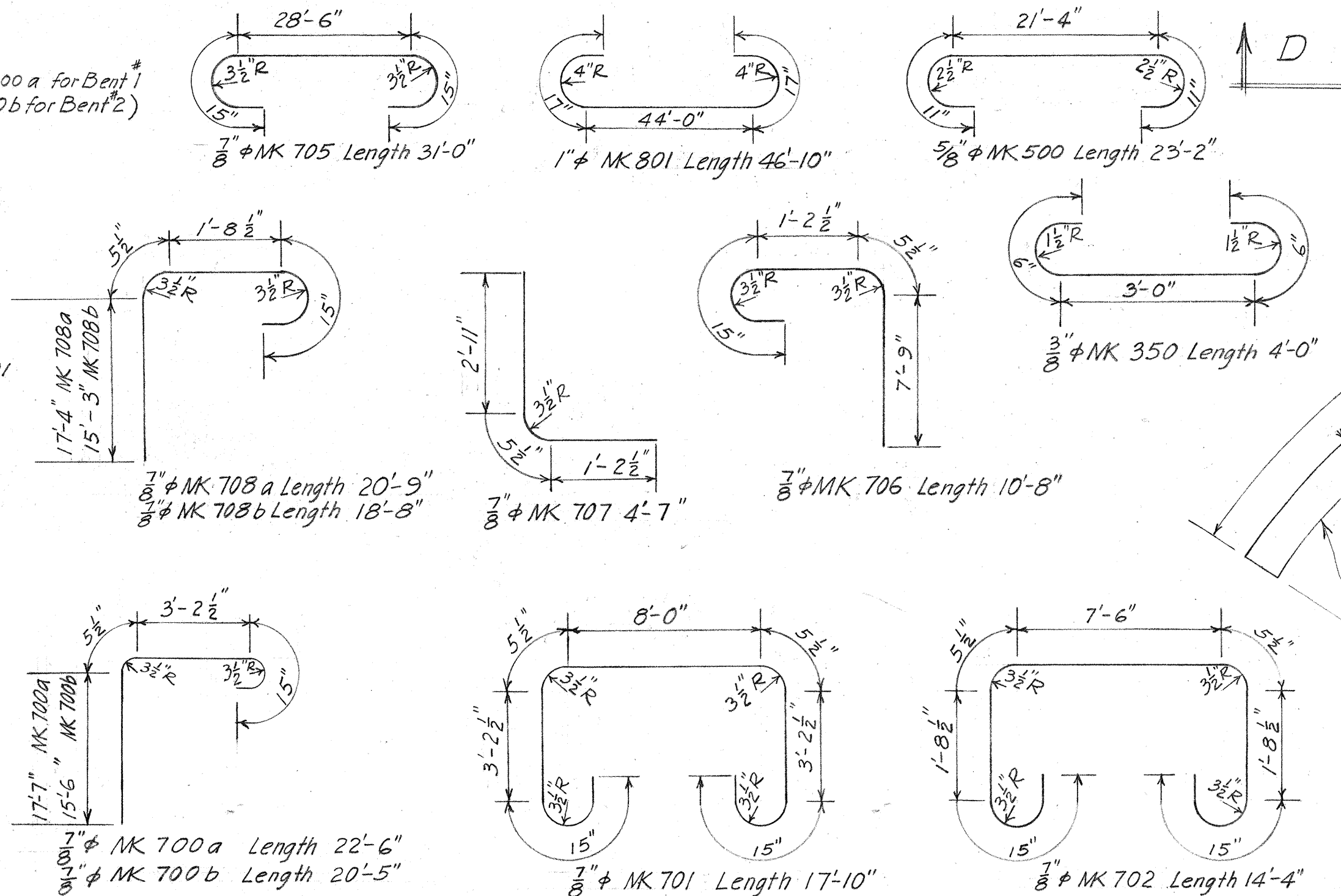
ELEVATION
 $\frac{1}{4}'' = 1'-0''$



Note: All stirrup dimensions are to inside of stirrups, all other dimensions are figured to center line of bars.



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



PLAN B-B
 $\frac{1}{4}'' = 1'-0''$

ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY <i>W. R. Barfels</i> DRAWN BY <i>J. I. Okamoto</i> TRACED BY	DATE " Aug. 1936 " Aug. 1936 " "
NOTE BOOK	QUANTITIES BY <i>J. I. O.</i> QUANTITIES CHECKED BY <i>P. Yamashita</i> CHECKED BY <i>W. R. Barfels</i>	" Aug. 1936 " Aug. 1936 " Aug. 1936
No.		

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UNDERPASS
STATION 11+50
KAUAI BELT ROAD F.A.P.E. 29(4)
AUGUST, 1946

SHEET No 3 OF 3 SHEETS