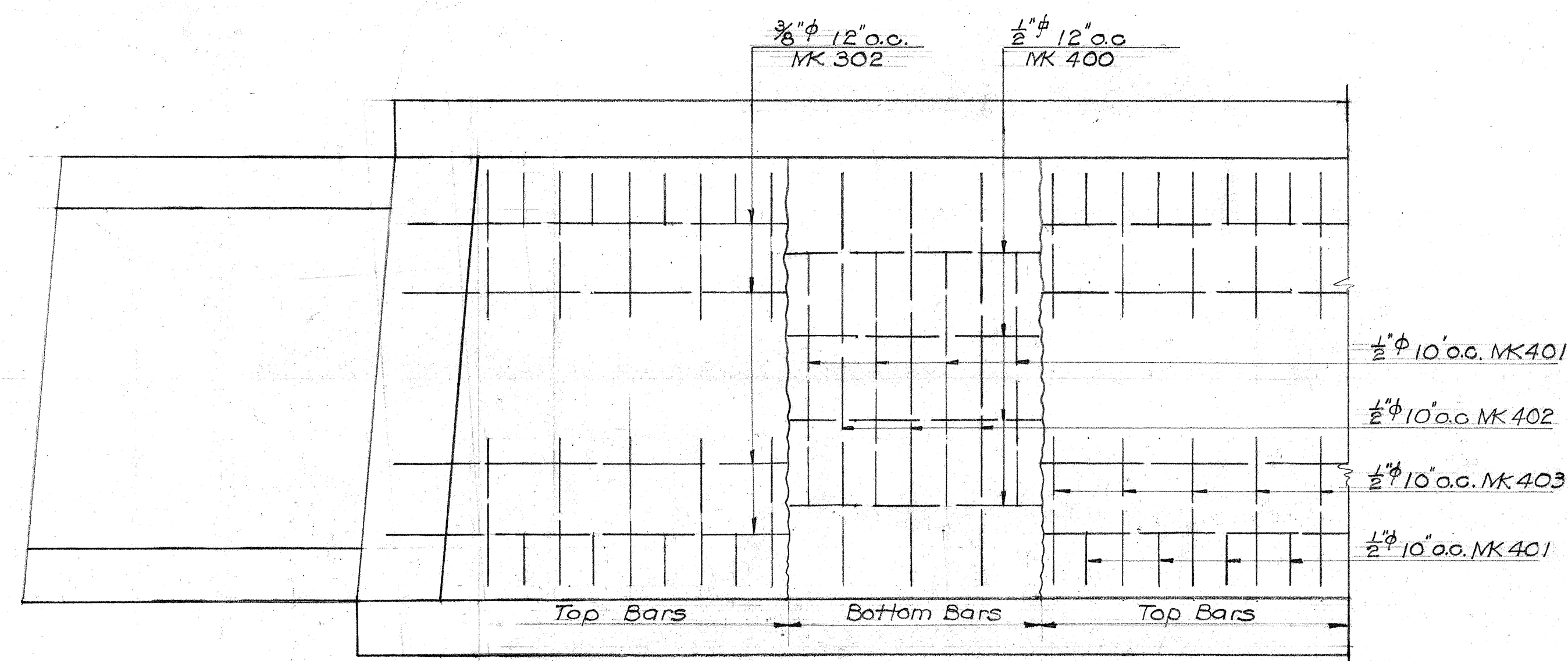
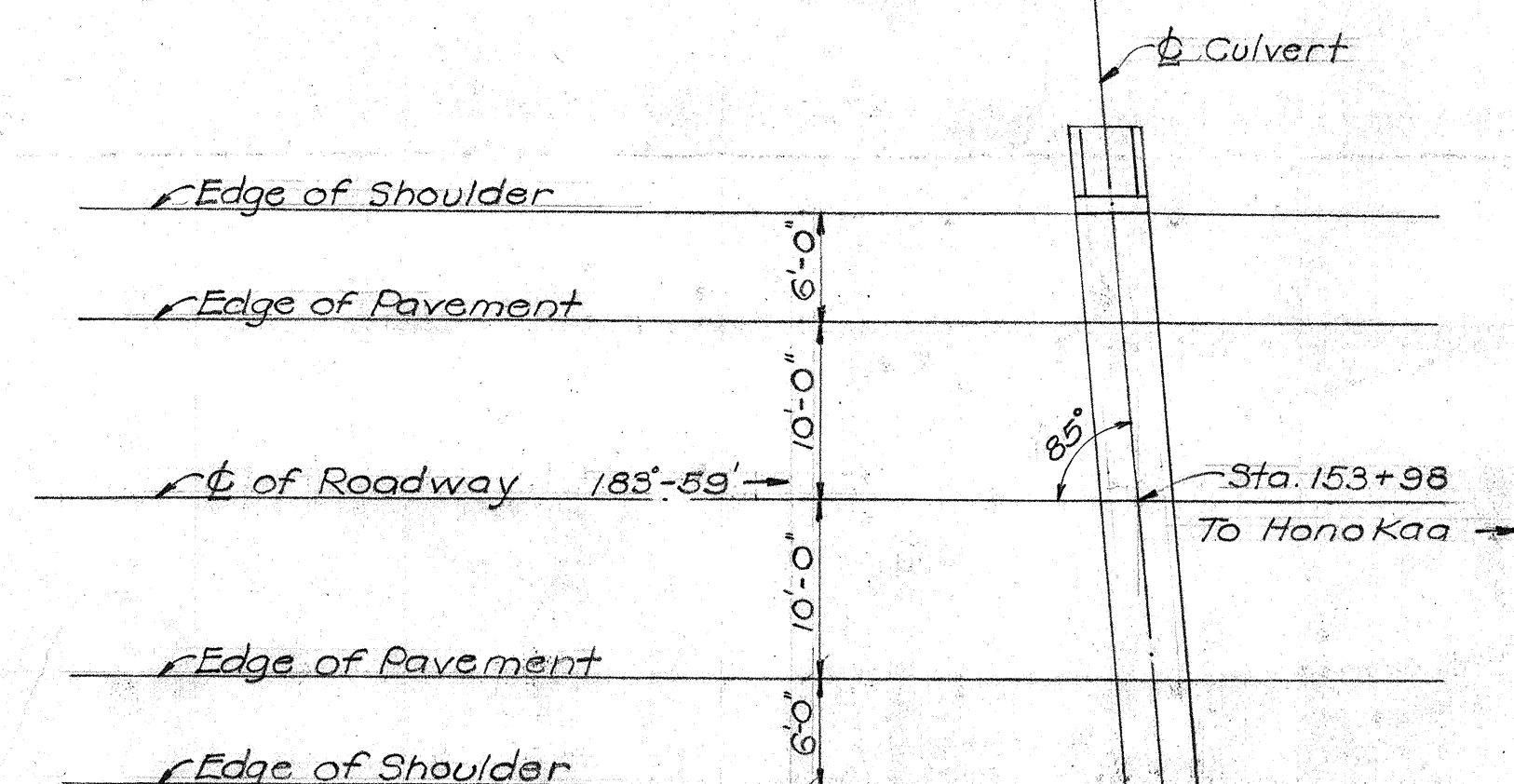


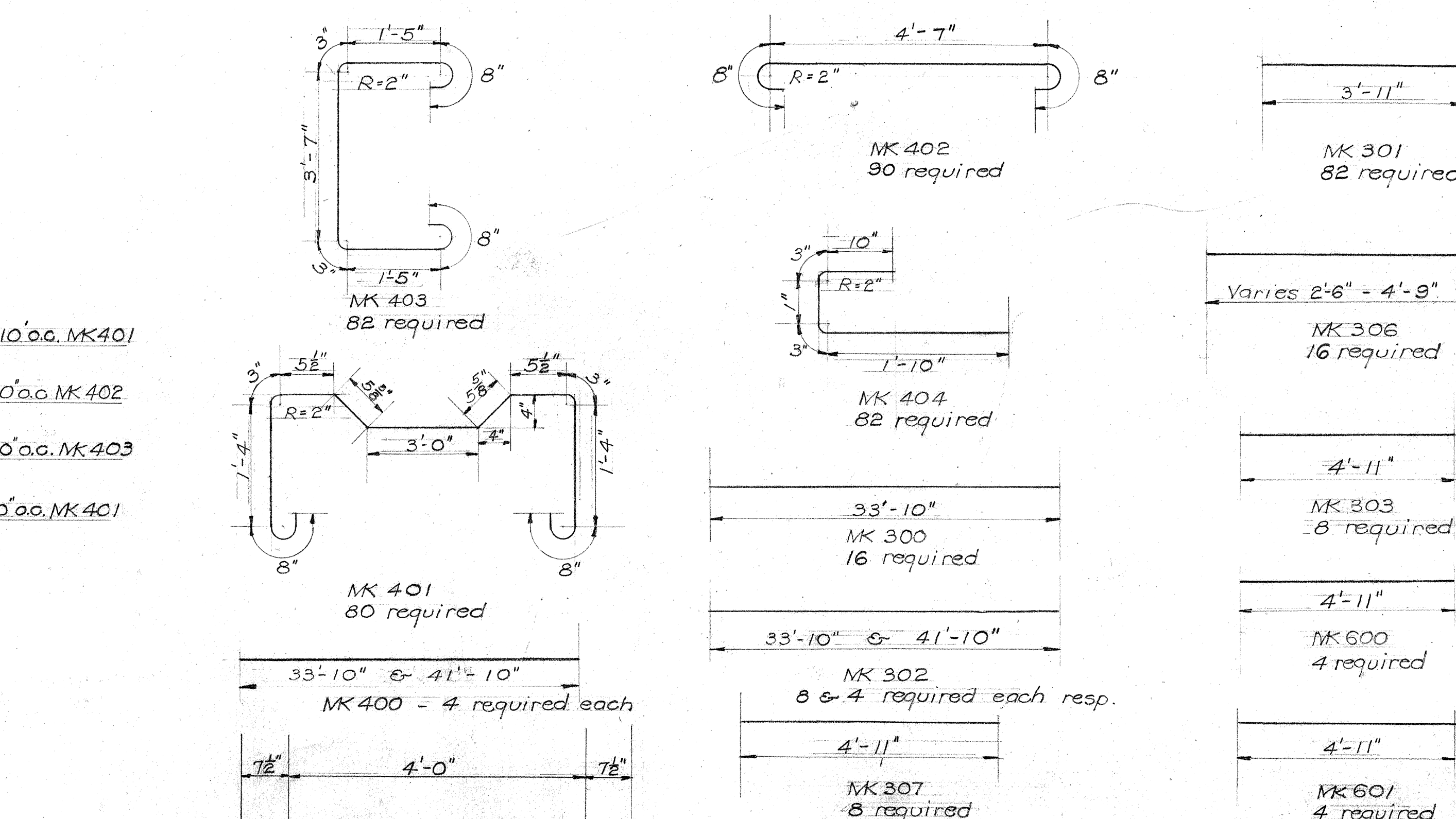
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	14-B(1)	1941	26	92



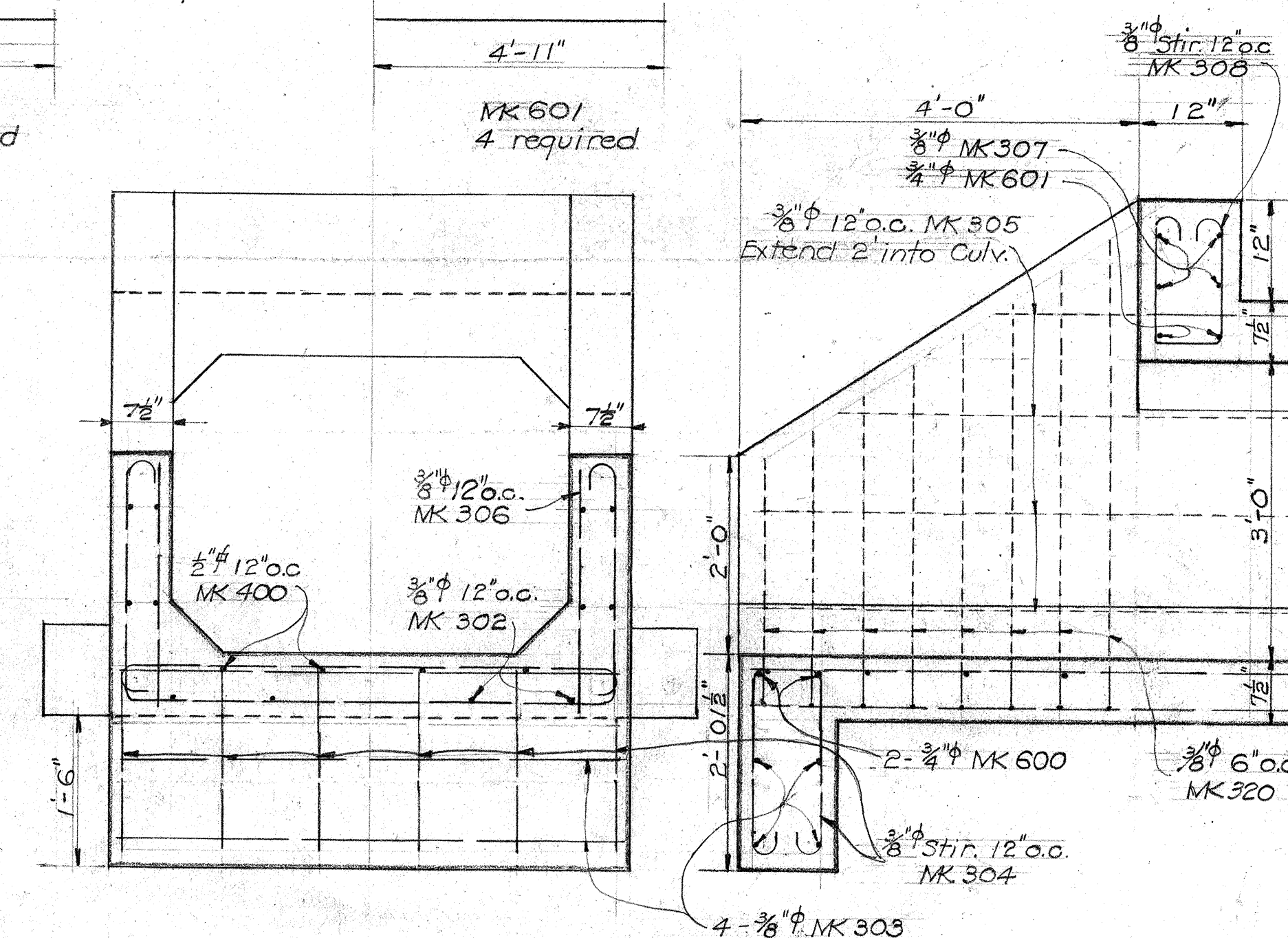
PLAN SHOWING STEEL ARRANGEMENT
Scale: $\frac{3}{4}$ " = 1'-0"



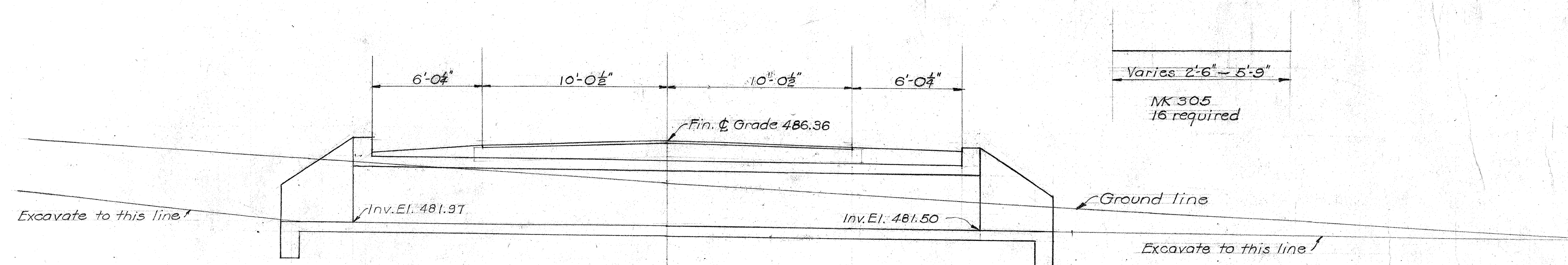
PLAN
Scale: 1" = 10'



NORMAL SECTION
Scale: $\frac{3}{4}$ " = 1'-0"



SECTIONS - INTAKE & OUTLET
Scale: $\frac{3}{4}$ " = 1'-0"



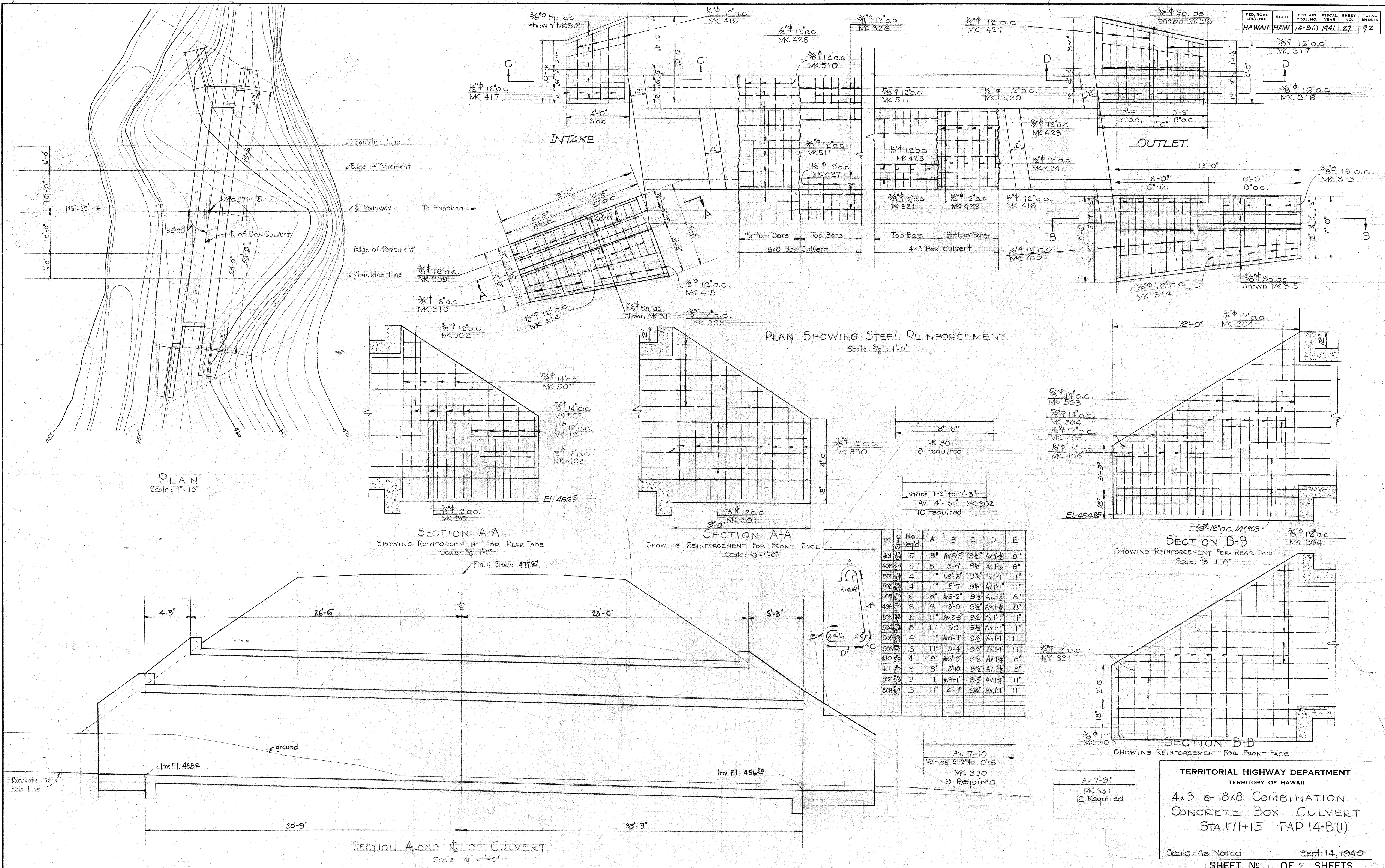
SECTION ALONG CULVERT
Scale: $\frac{1}{4}$ " = 1'

ESTIMATED QUANTITIES
Class "A" Concrete = 18 c.y.
Reinforcing Steel = 2440 lbs.
Structural Excavation = 41 c.y.
Channel Excavation = 12 c.y.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4x3 CONCRETE BOX CULVERT
Sta. 153+98
F.A.P. 14-B(1)
Scale: As Noted
Aug. 6, 1940

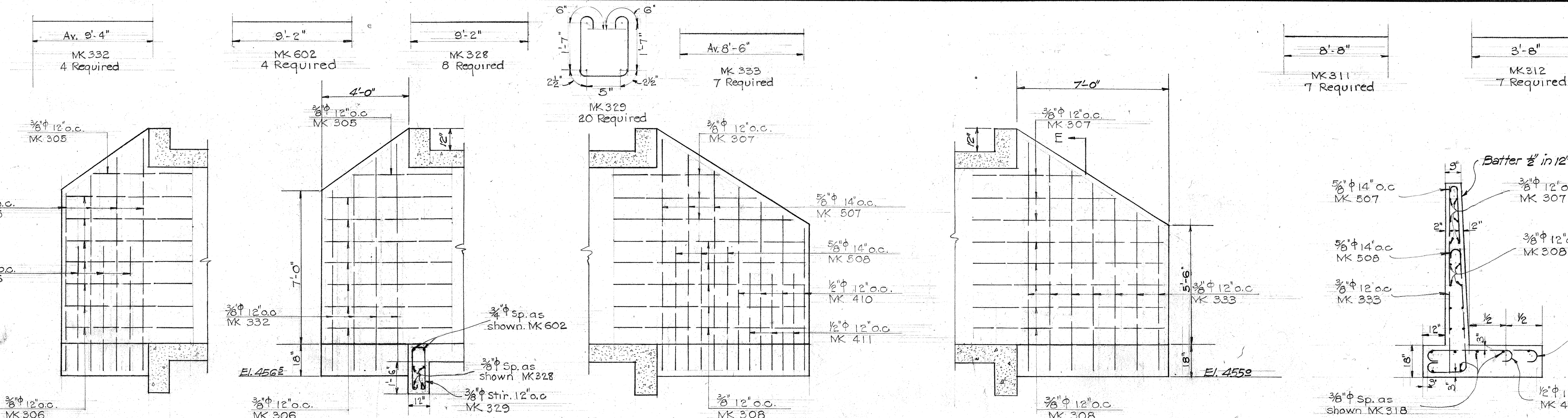
SHEET No. 1 OF 1 SHEETS

5039.26



DATE: 10/14/40
DESIGNED BY: H. S. BING
DRAWN BY: H. S. BING
CHECKED BY: H. S. BING
ORIGINAL PLAN NO. 5039.27
NOTE BOOK NO. 5039.27

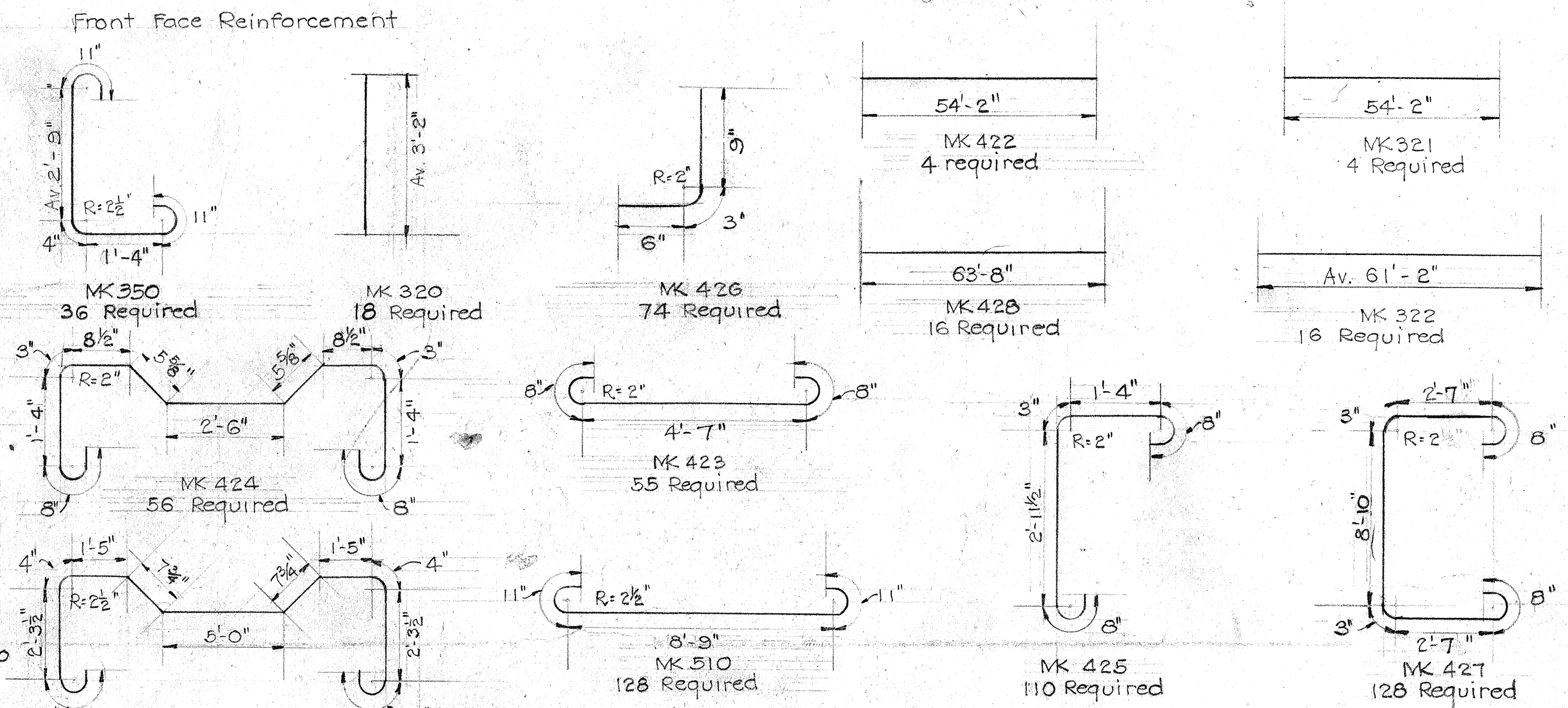
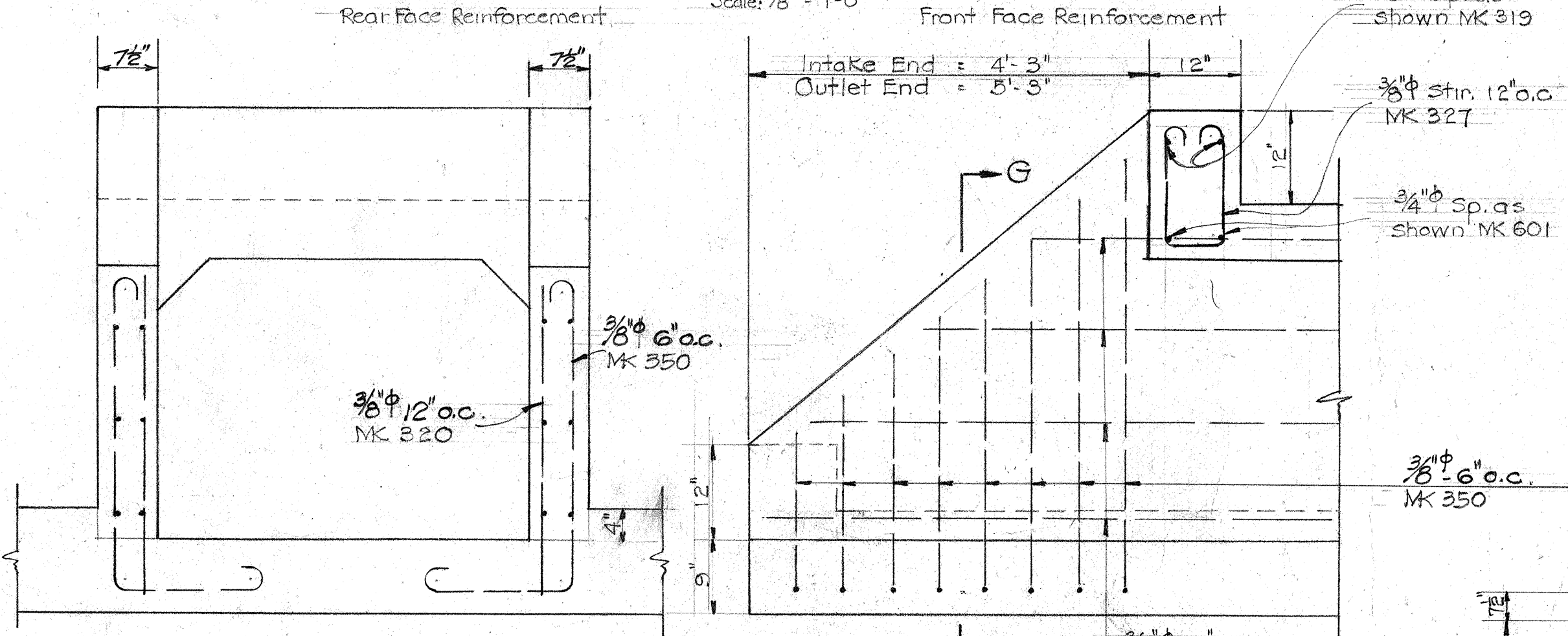
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4x3 & 8x8 COMBINATION
CONCRETE BOX CULVERT
STA. 171+15 FAP 14-B(1)
Scale: As Noted
SHEET No 1 OF 2 SHEETS



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

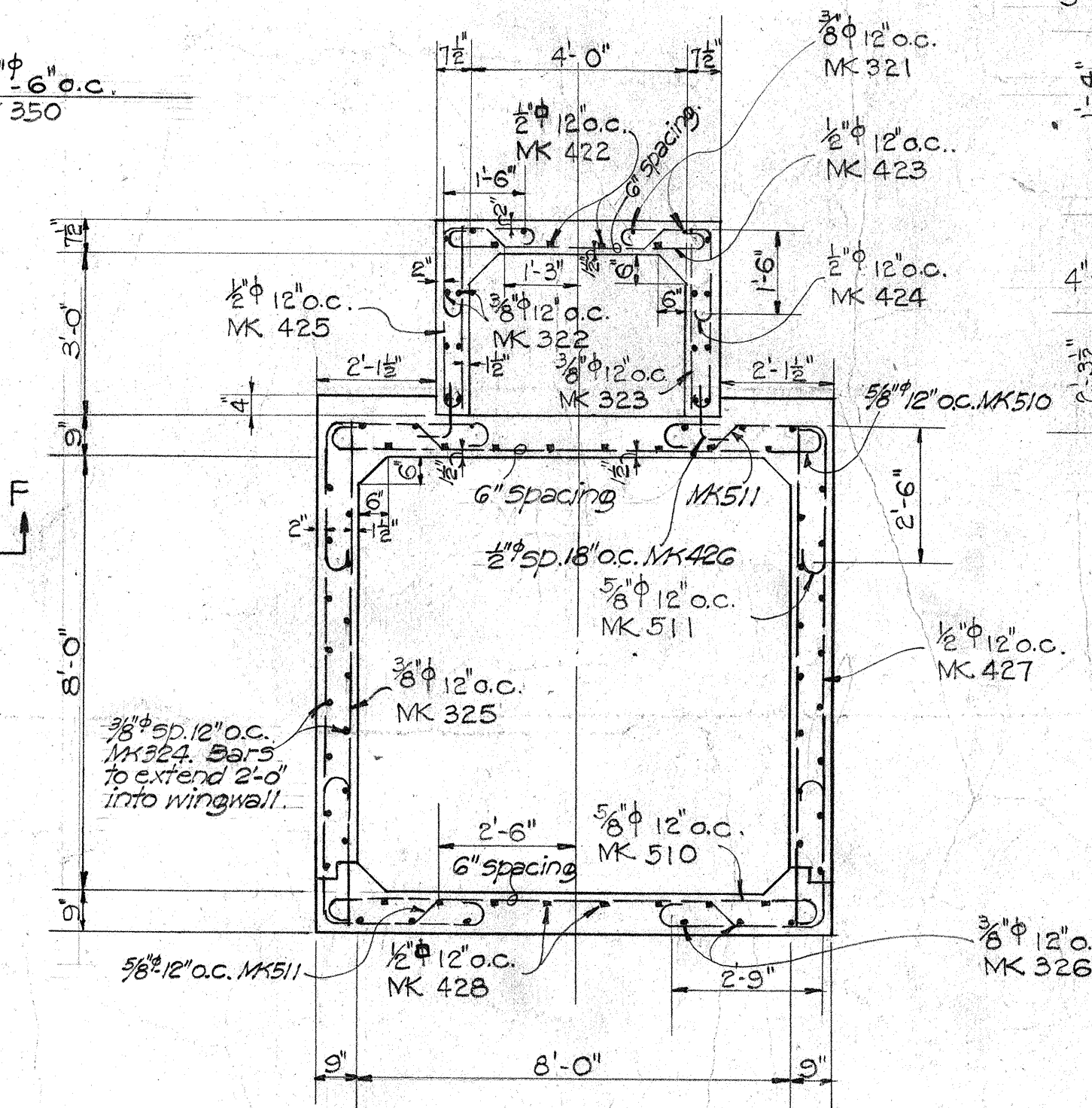
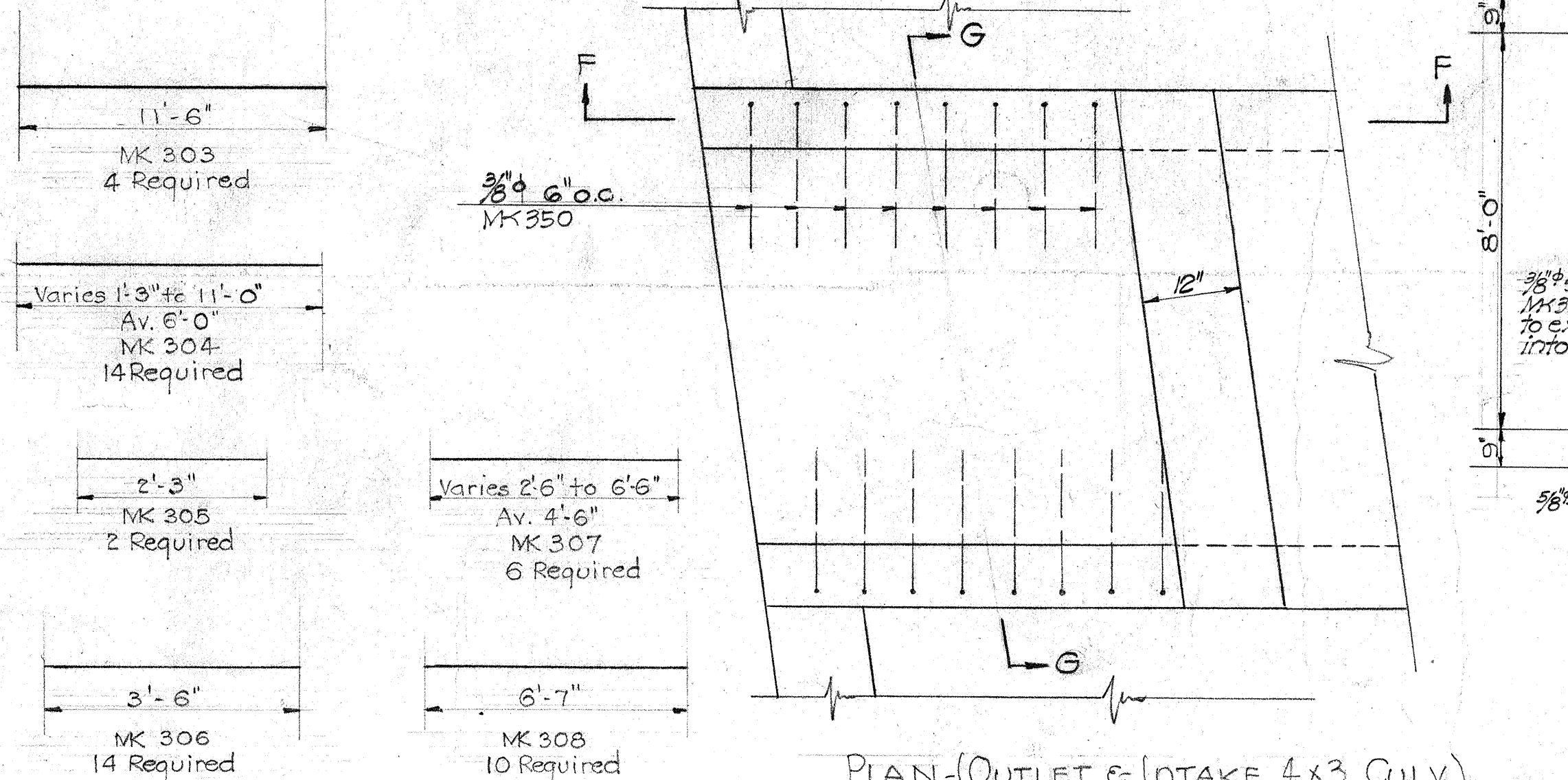
SECTION D-D
Scale: 3/8" = 1'-0"

SECTION EE
TYPICAL FOR WINGWALLS
Scale: 3/8" = 1'-0"



SECTION G-G
Scale: 3/4" = 1'-0"

SECTION FF
Scale: 3/4" = 1'-0"



MK	Size	Inch	A	E
309	3/8"	4	Av. 2'-9"	6"
310	3/8"	3	Av. 4'-0"	6"
414	1/2"	4	Av. 3'-2"	8"
415	1/2"	5	Av. 4'-4"	8"
416	1/2"	4	Av. 4'-0"	8"
417	1/2"	4	Av. 2'-8"	8"
313	3/8"	4	Av. 2'-9"	6"
314	3/8"	5	Av. 3'-9"	6"
418	1/2"	6	Av. 3'-2"	8"
419	1/2"	6	Av. 4'-5"	8"
316	3/8"	3	Av. 2'-9"	6"
317	3/8"	2	Av. 3'-7"	6"
420	1/2"	3	Av. 3'-0"	8"
421	1/2"	4	Av. 4'-3"	8"

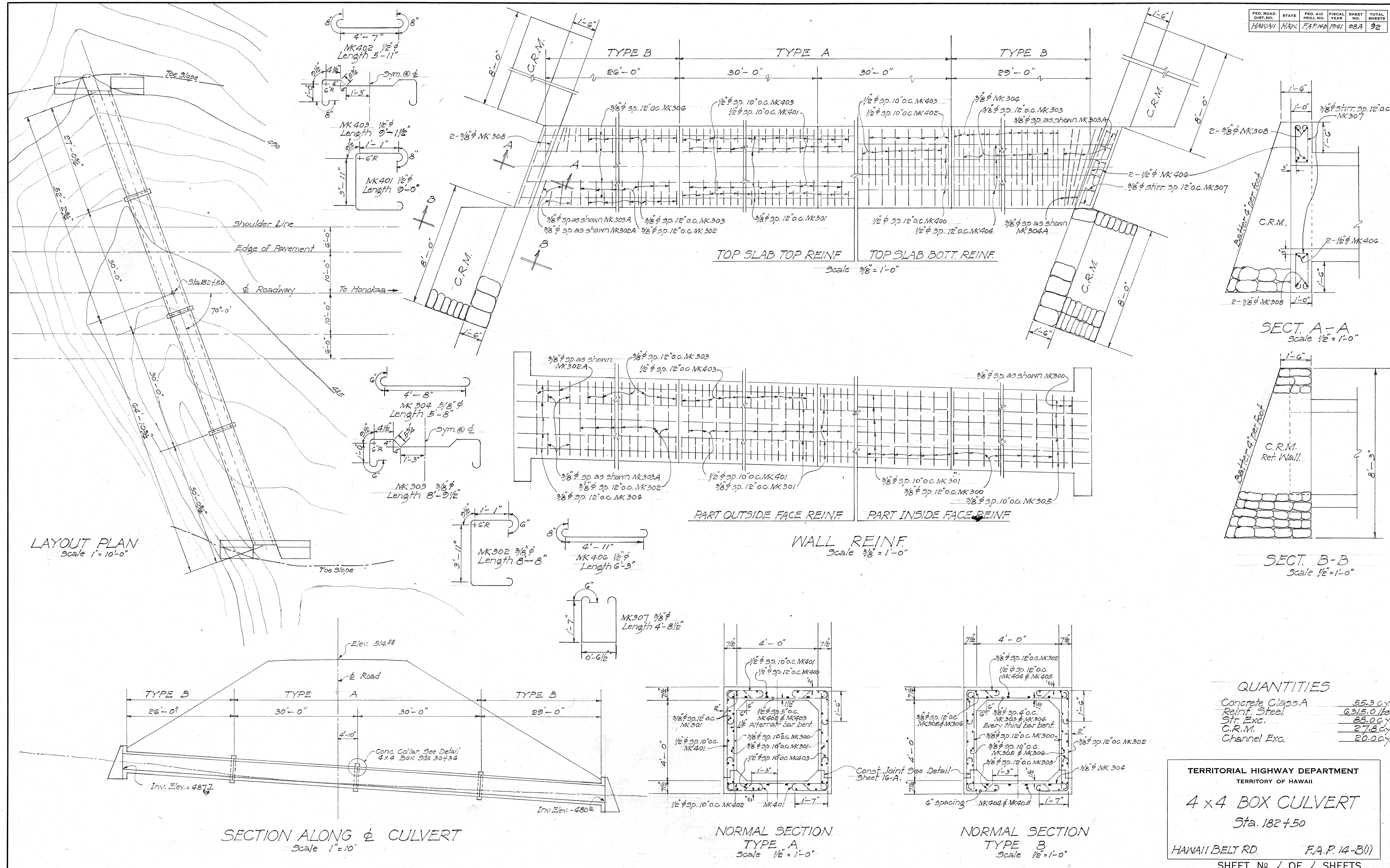
ESTIMATED QUANTITIES

Class "A" Concrete	100.3 c.y.
Reinforcing Steel	10,460 lbs
Structural Excavation	84 c.y.
Channel Excavation	74 c.y.

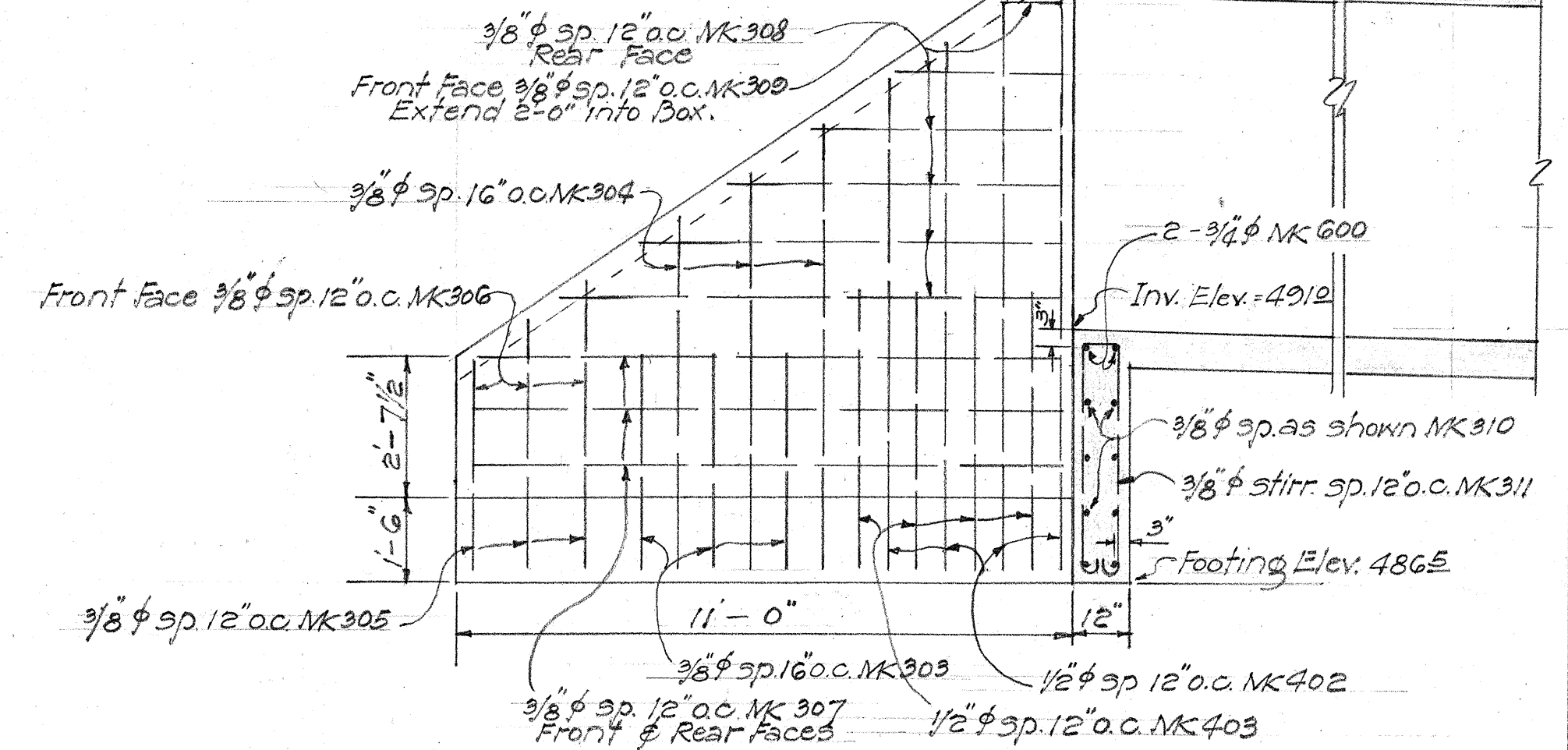
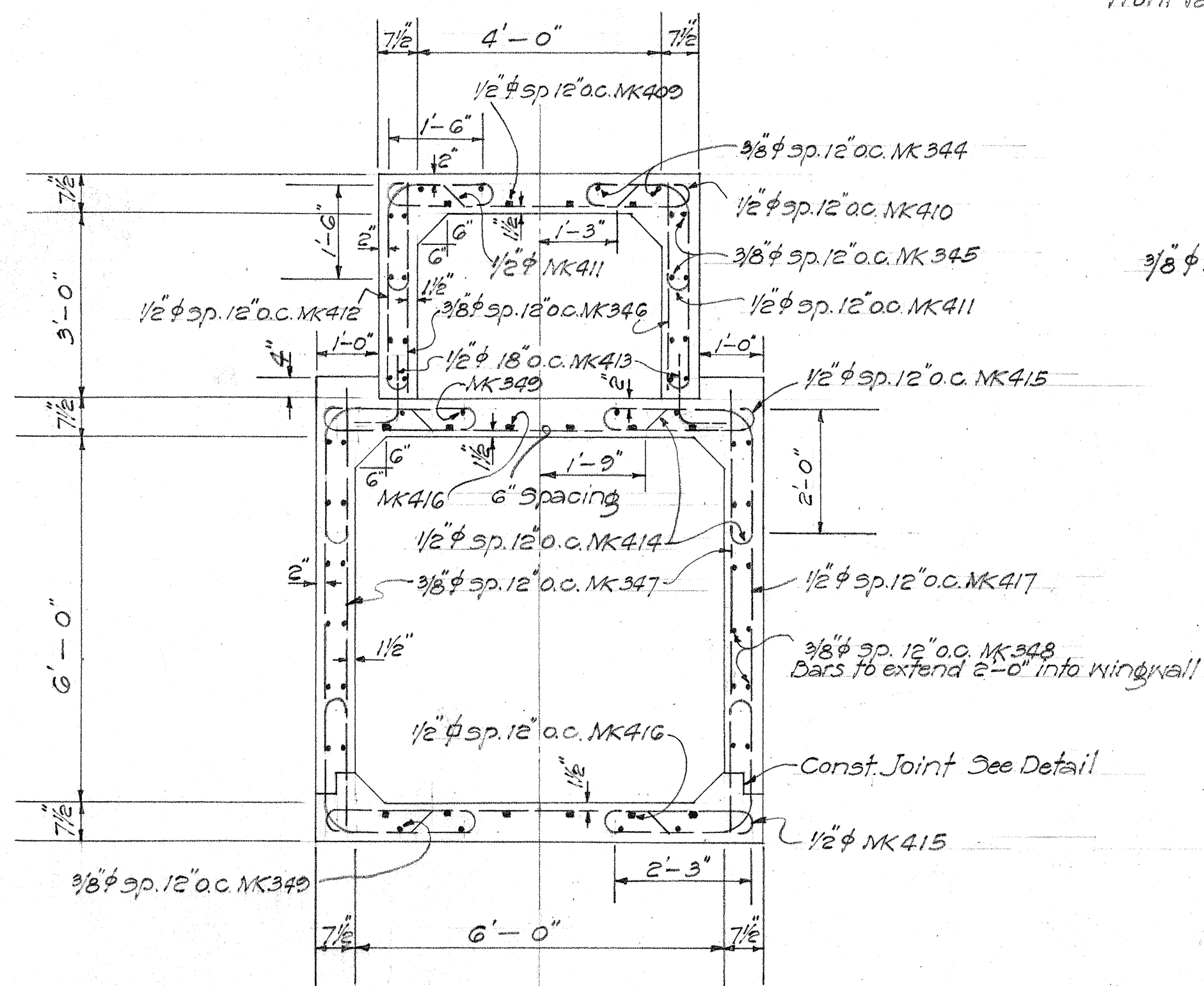
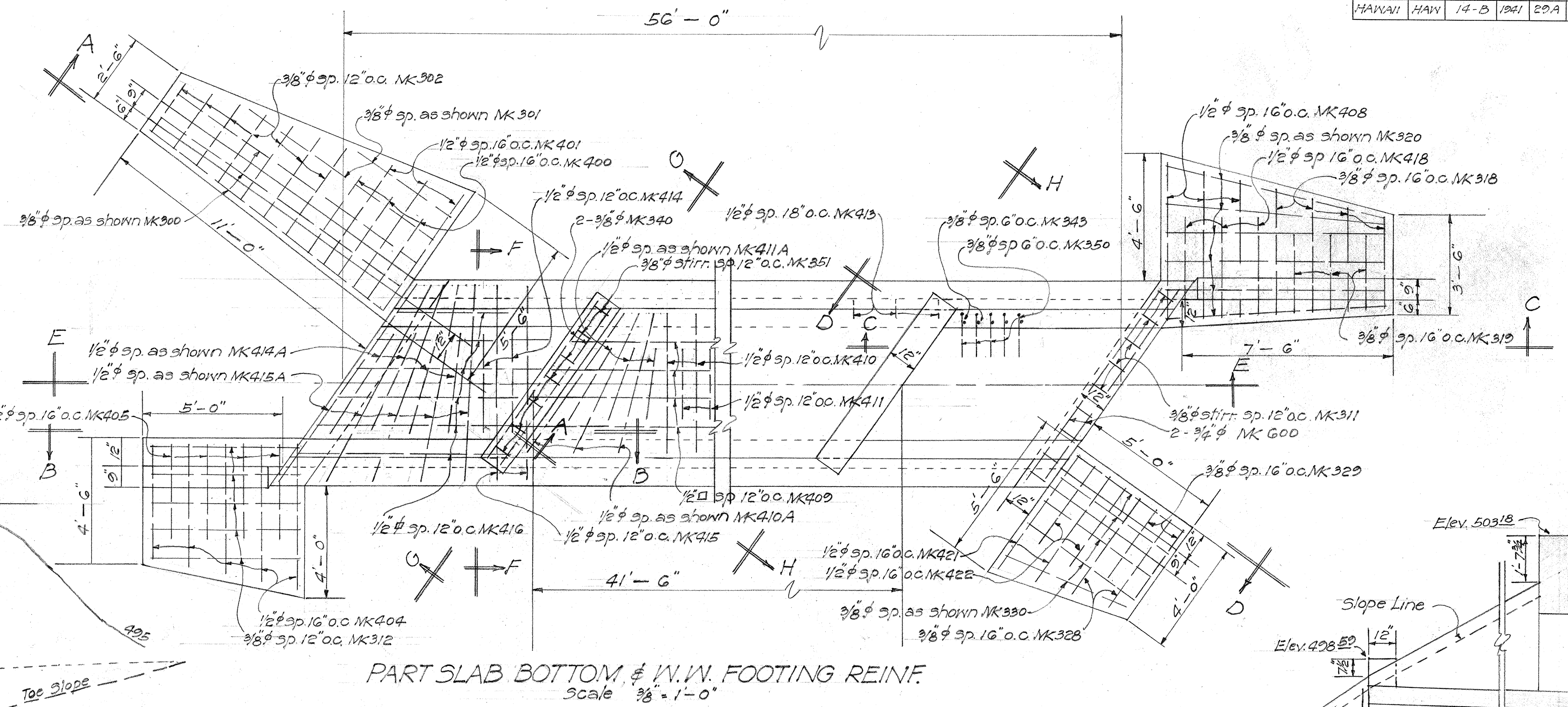
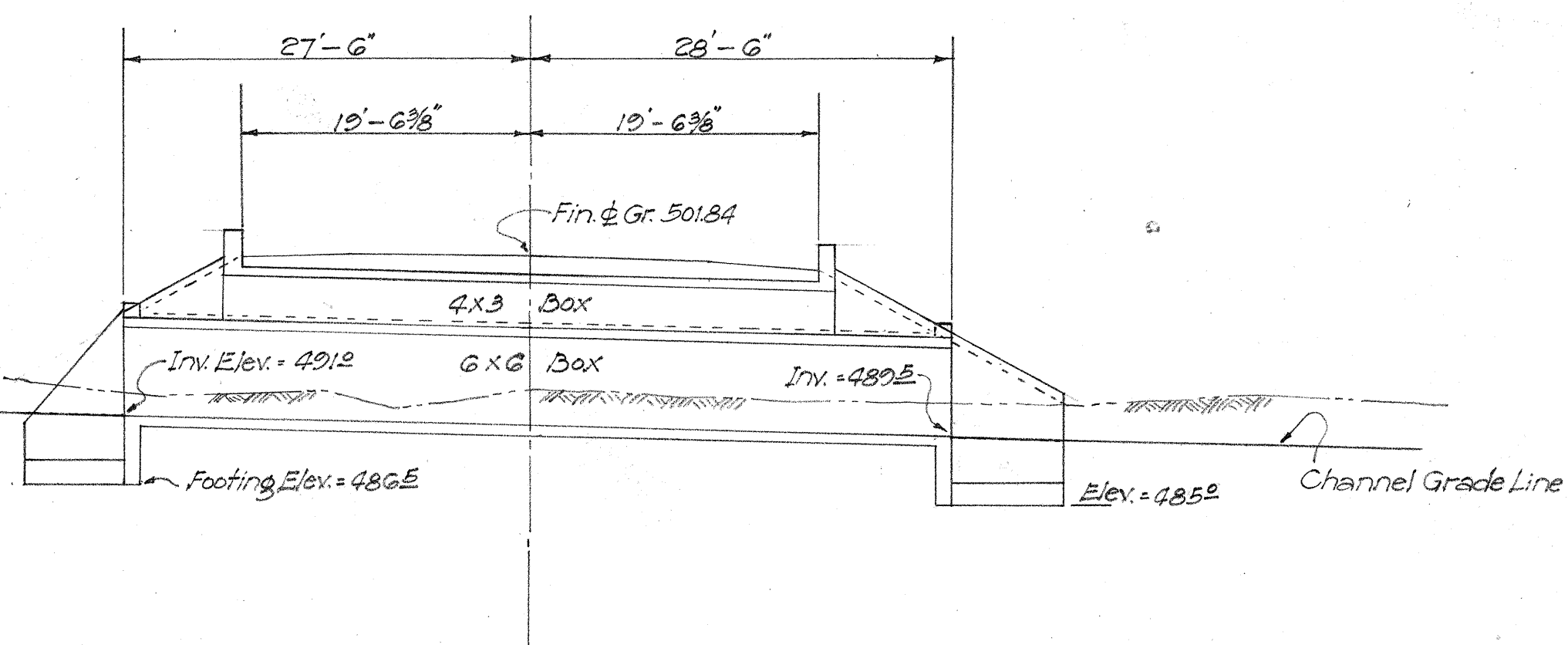
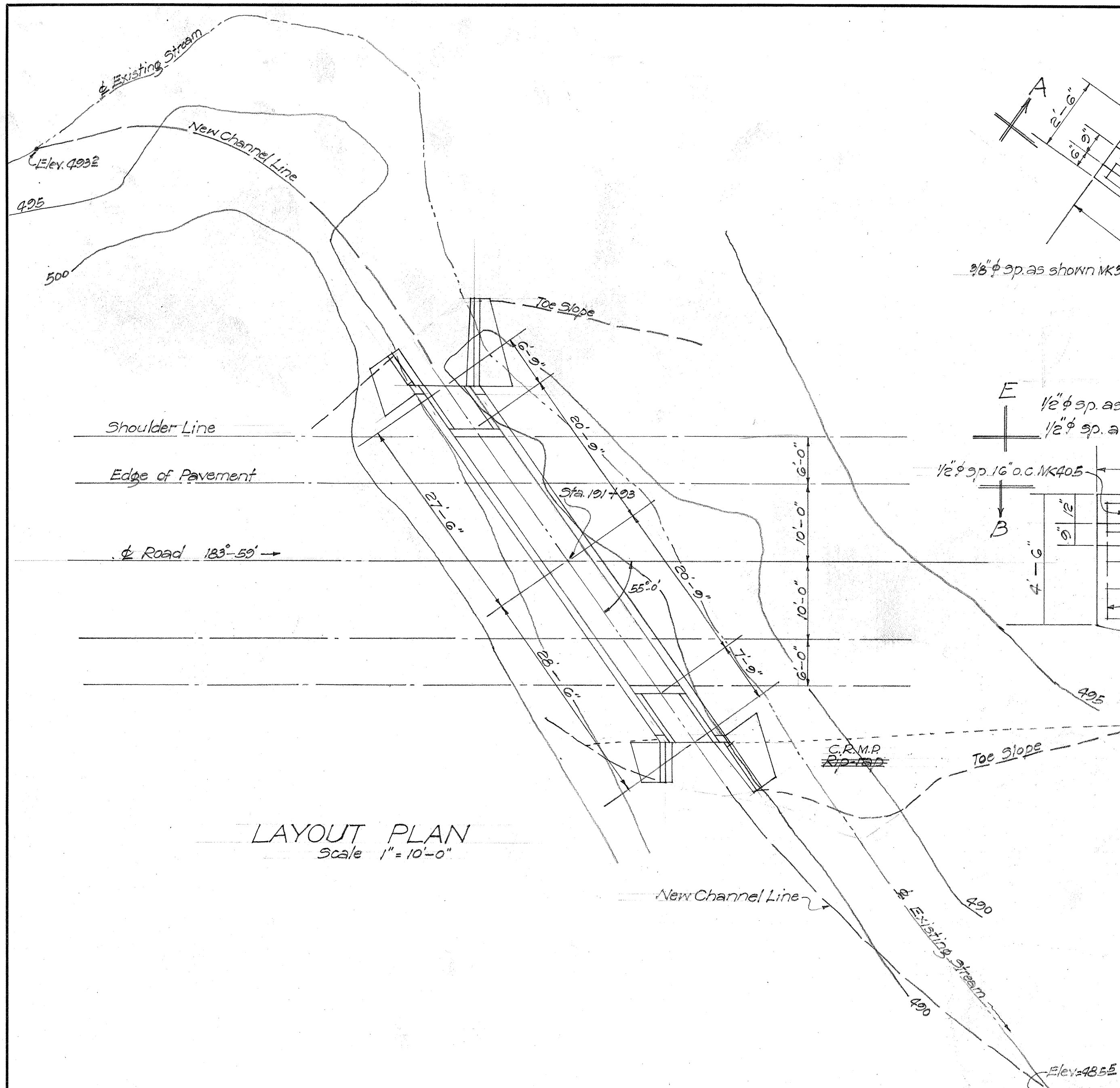
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4x3 & 8x8 COMBINATION
CONCRETE BOX CULVERT
STA. 171+15 FAD 14-B(1)
Scale As Noted Sept. 1940
SHEET No 2 OF 2 SHEETS

DATE: Aug 22, 1941
DESIGNED BY: H. H. CHANG
CHECKED BY: H. H. CHANG
QUANTITIES CHECKED BY: H. H. CHANG
NOTE BOOK NO. 1

5039.28



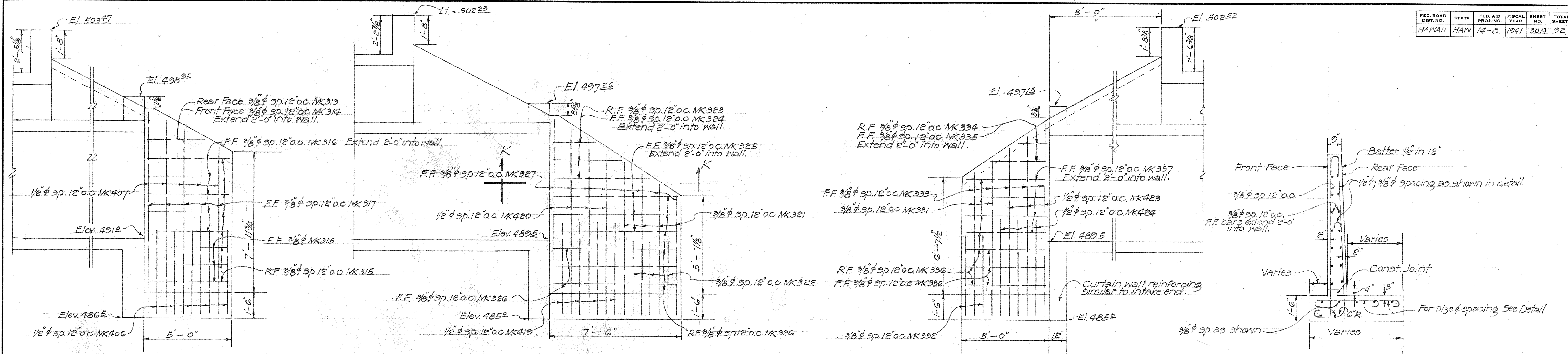
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	14-B	1941	20A	22



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4x3 & 6x6 COMBINATION
BOX CULVERT
STA. 191 + 93
HAWAII BELT RD. F.A.P. 14-B
SHEET NO. 1 OF 2 SHEETS

5039.29A

DATE: 1/27/41
DESIGNED BY: J. J. [illegible]
CHECKED BY: J. J. [illegible]
QUANTITIES CHECKED BY: [illegible]
NOTE BOOK: [illegible]
No. [illegible]

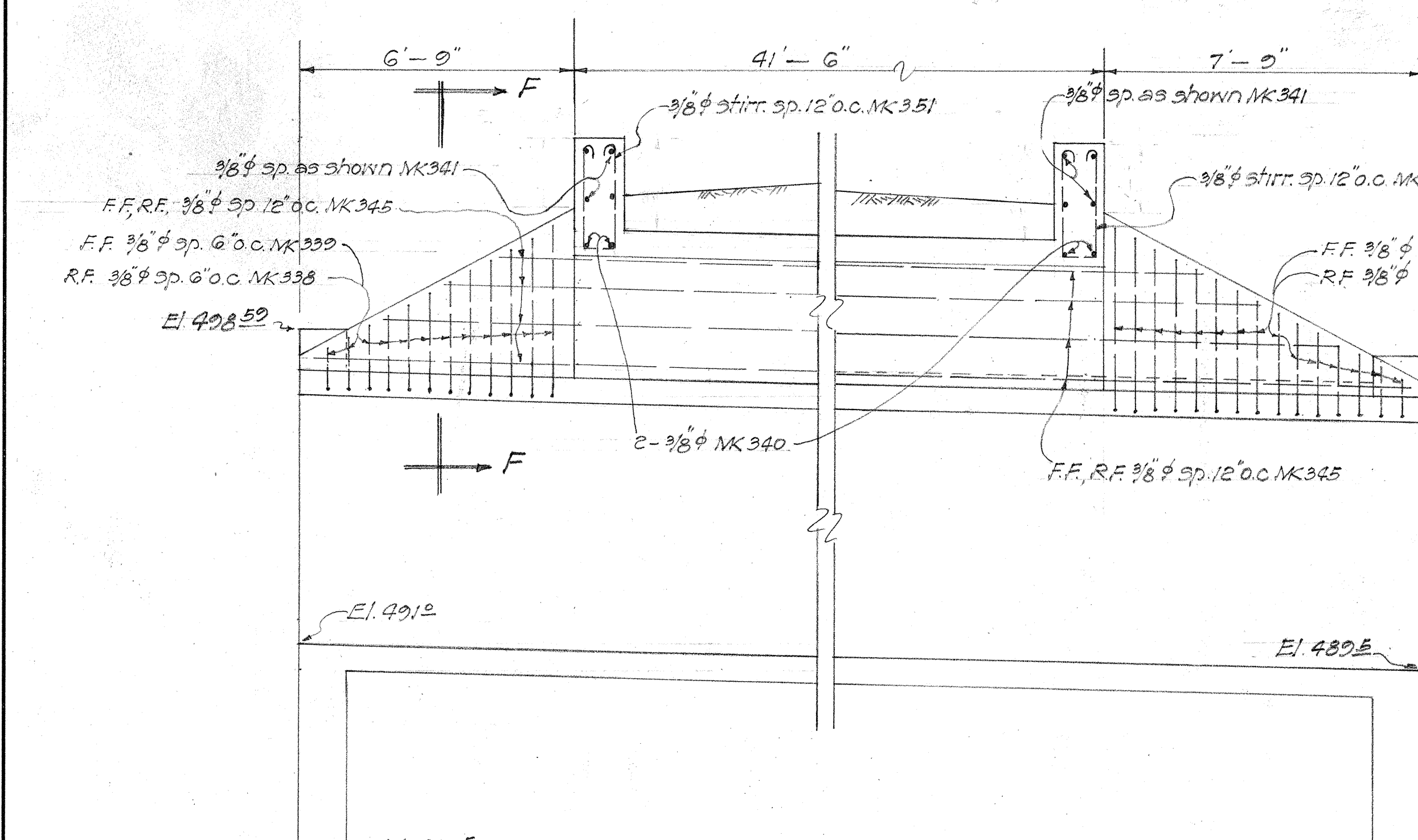


SECTION B-B
Scale 3/8" = 1'-0"

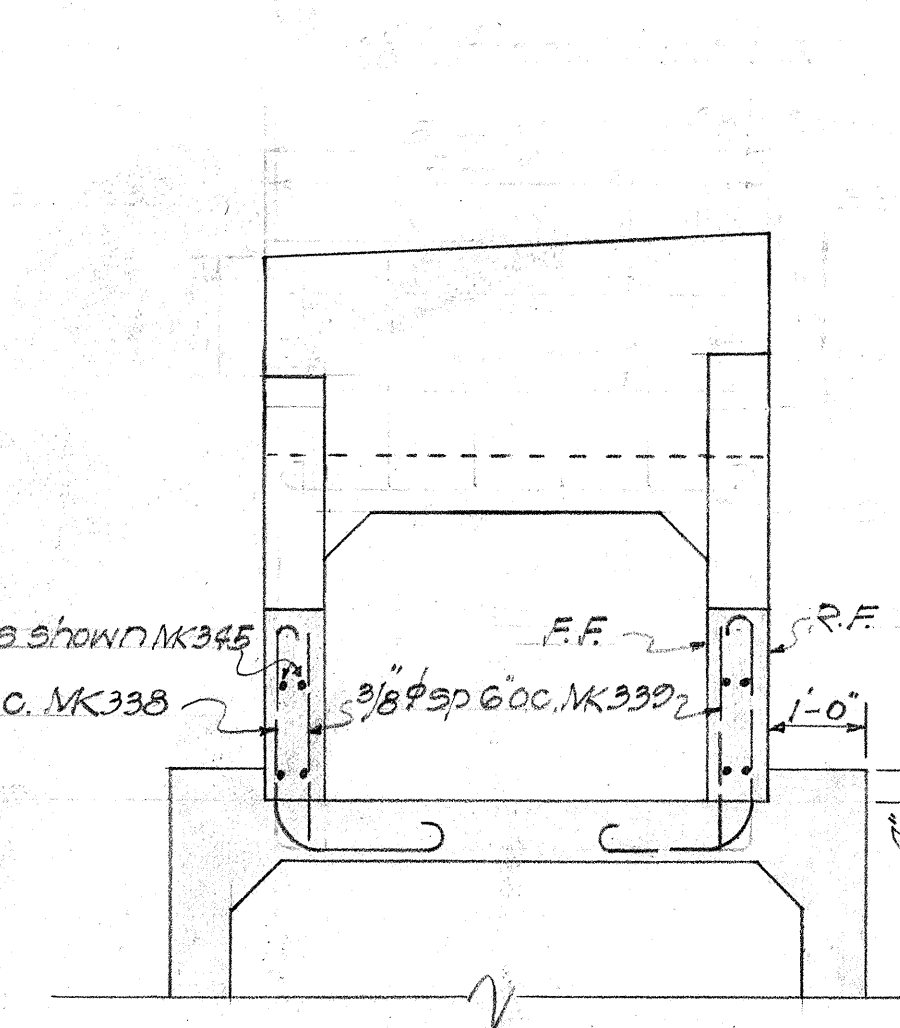
SECTION C-C
Scale 3/8" = 1'-0"

SECTION D-D
Scale 3/8" = 1'-0"

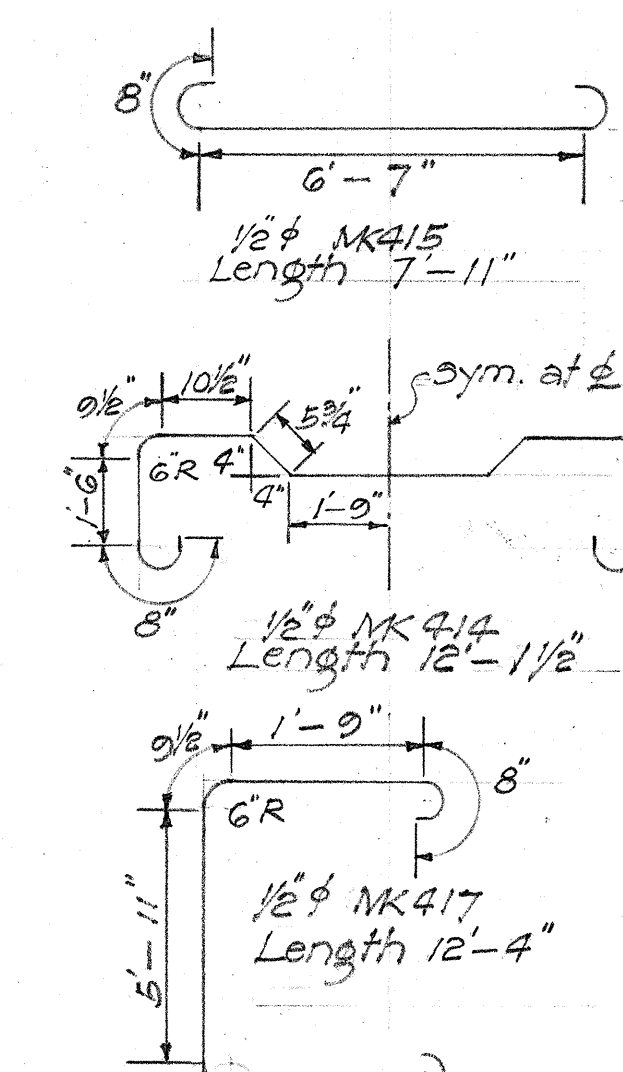
WINGWALL SECTION
Scale 3/8" = 1'-0"



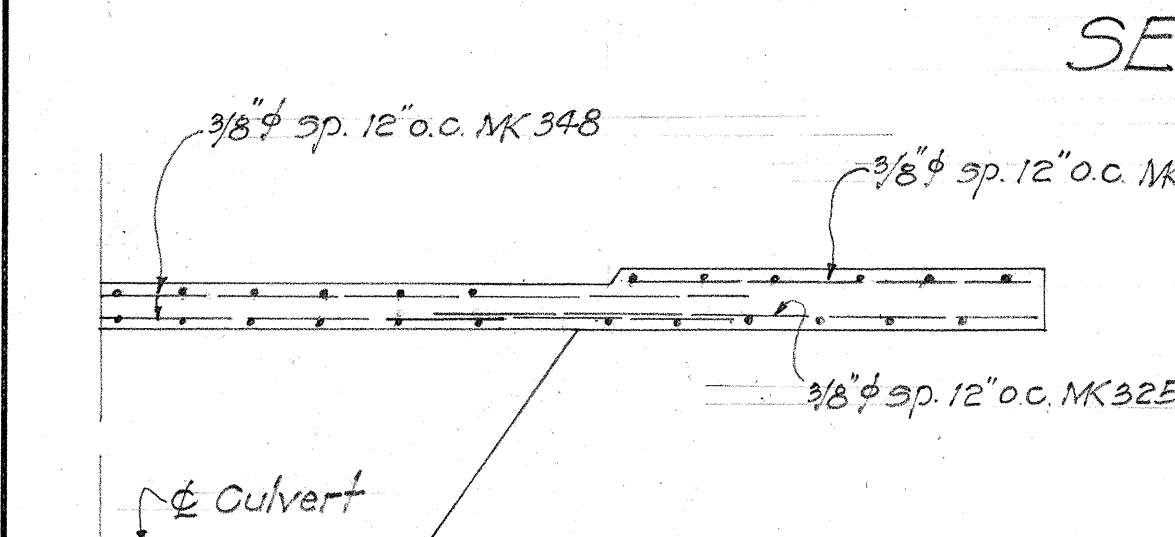
SECTION E-E
Scale 3/8" = 1'-0"



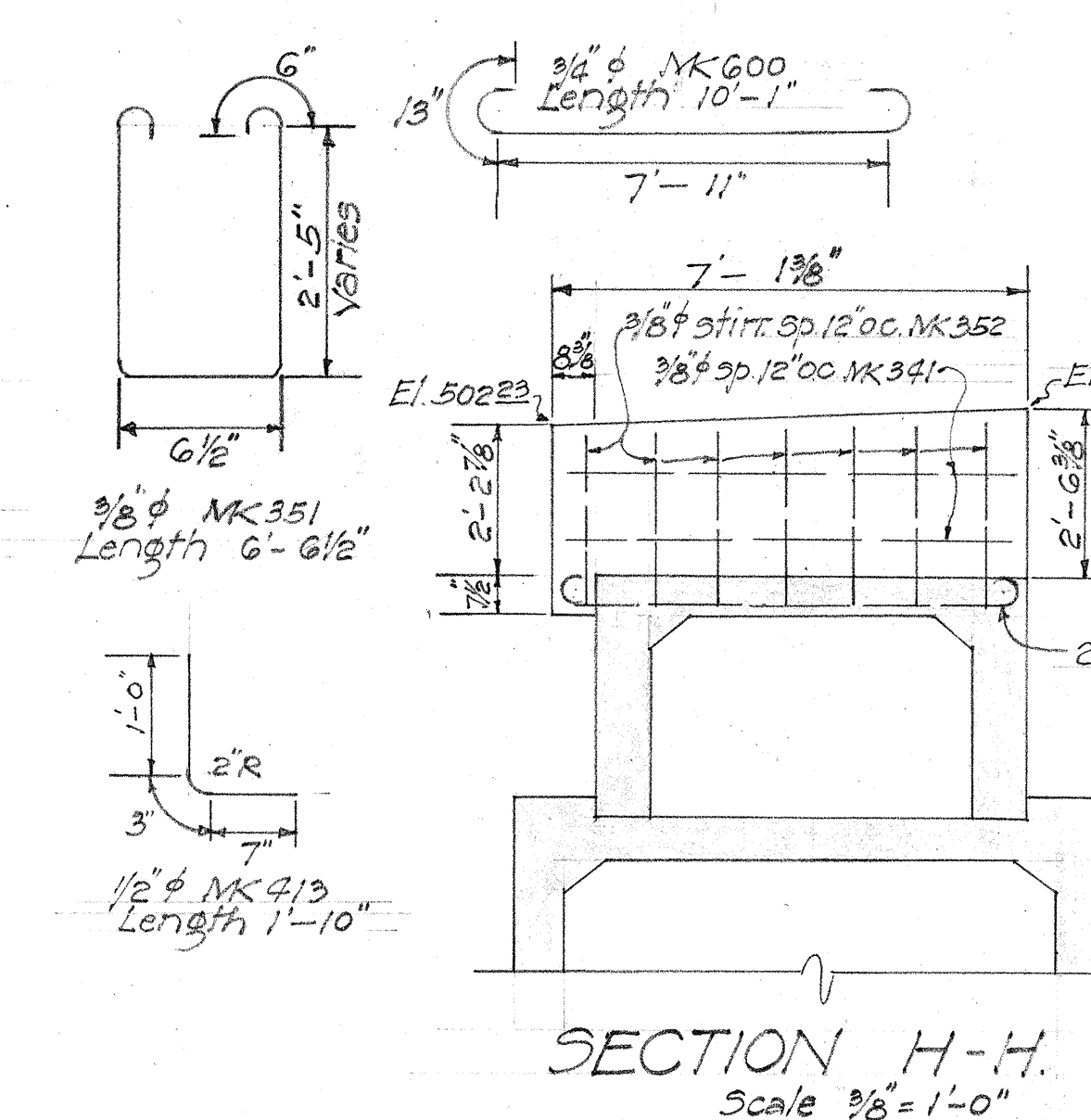
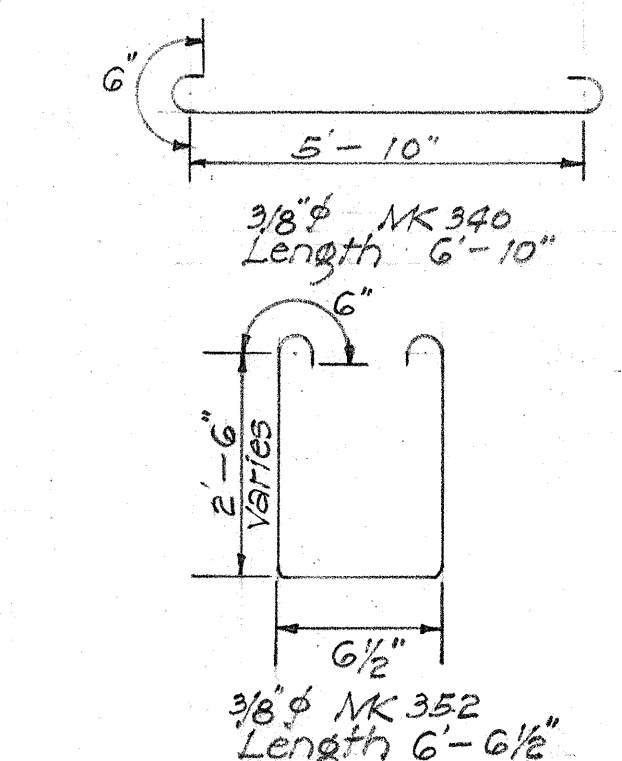
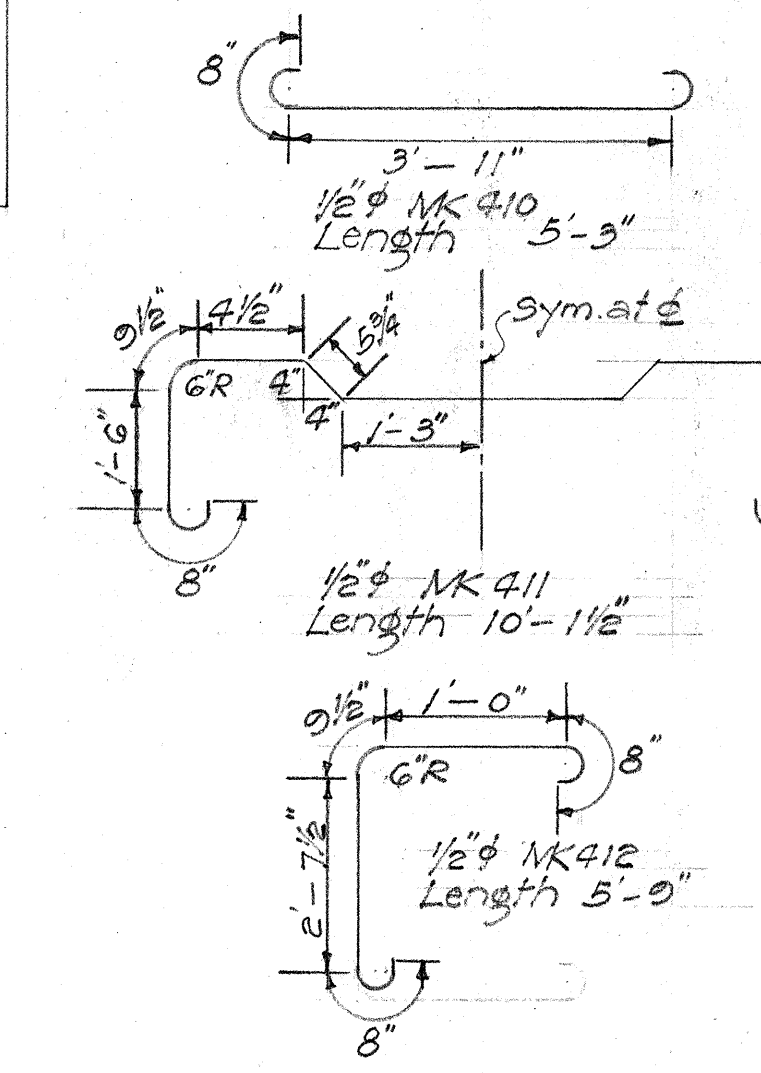
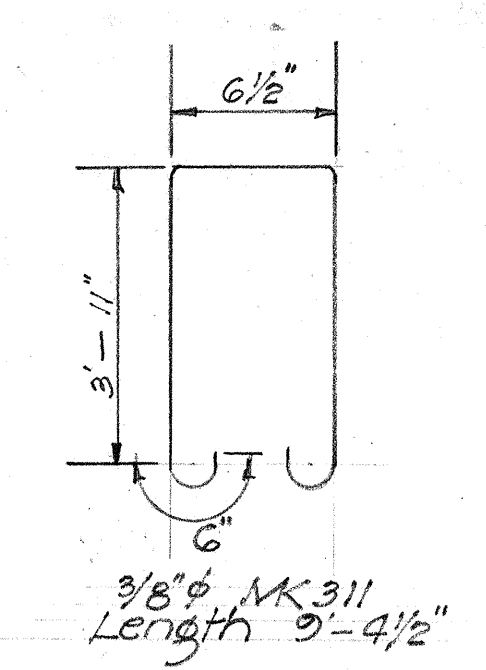
SECTION F-F
Scale 1/2" = 1'-0"



SECTION G-G
Scale 3/8" = 1'-0"



SECTION K-K
Scale 3/8" = 1'-0"



SECTION H-H
Scale 3/8" = 1'-0"

QUANTITIES

Class "A" Concrete	68.5 C.Y.
Reinf. Steel	6,575.0 lbs.
Str. Exc.	106.0 C.Y.
Channel Exc.	70.0 C.Y.
Rip-Rap CRMP	12.0 C.Y.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
**4x3 #6x6 COMBINATION
BOX CULVERT**
STA. 191+93
HAWAII BELT RD. F.A.P. 14-B
SHEET No 2 OF 2 SHEETS

5039.30A

SURVEY PLOTTED BY: JH/12/41
DESIGNED BY: JH/12/41
TRACED BY: JH/12/41
QUANTITIES BY: JH/12/41
CHECKED BY: JH/12/41
NOTE BOOK
No.