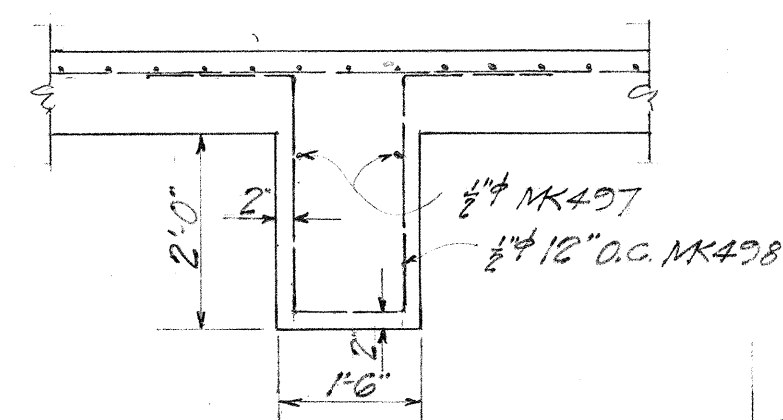


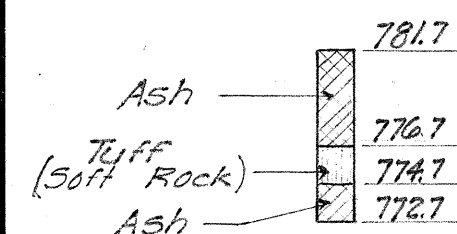
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 3(11)	1950	11	57

ESTIMATED QUANTITIES

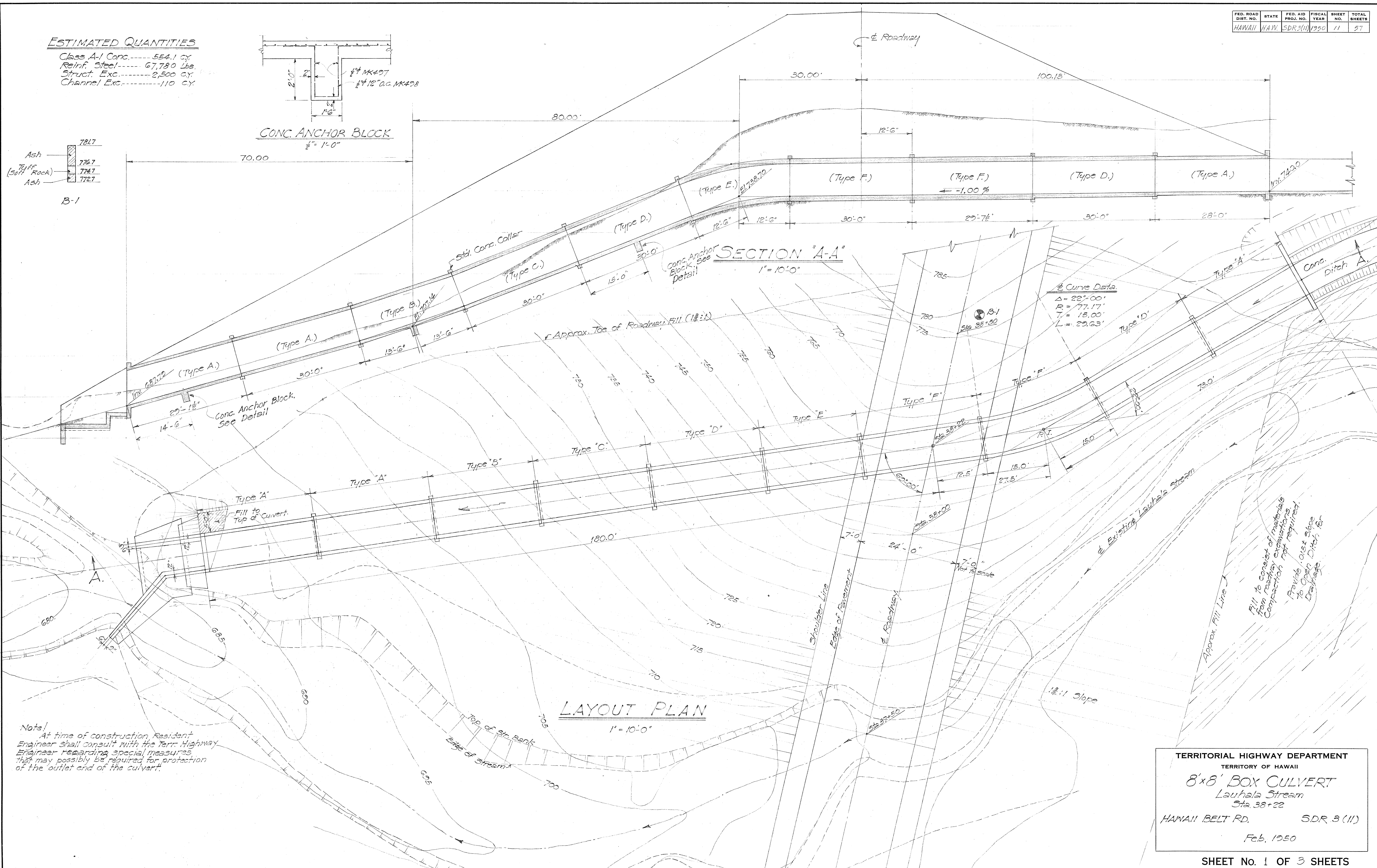
Class A-1 Conc.-----554.1 cy.
Reinf. Steel-----67,780 lbs.
Struct. Exc-----2,500 c.y.
Channel Exc-----110 c.y.



CONC. ANCHOR BLOCK
1/2" = 1'-0"



B-1



TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

8'x8' BOX CULVERT

Lauhala Stream
Sta. 38+22

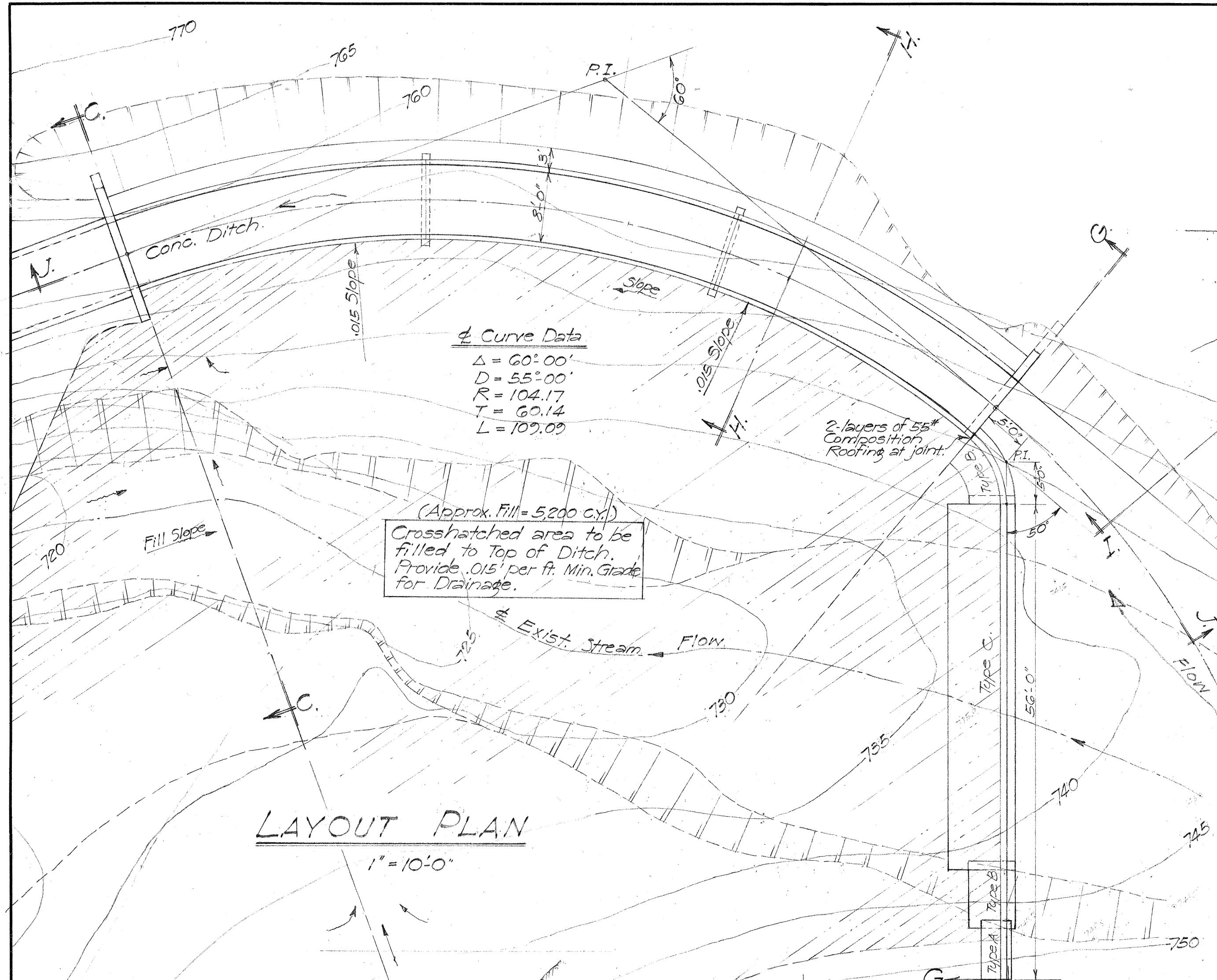
HAWAII BELT RD. SDR 3 (11)

Feb. 1950

SHEET NO. 1 OF 3 SHEETS

5426.11

DESIGNED BY	DATE
TRACED BY	1/27/50
QUANTITIES BY	
QUANTITIES CHECKED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	



LAYOUT PLAN
1" = 10'-0"

(SECTION "C-C")
ELEVATION - HEADWALL
1" = 10'-0"

INTAKE HEADWALL REINF.
1" = 10'-0"

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

SECT. "E-E"
3/8" = 1'-0"

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

SECTION "J-J"
1" = 10'-0"

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

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

ELEVATION "G-G"
1" = 10'-0"

DETAIL OF CONC. DITCH
3/8" = 1'-0"

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

TYPE "A"
3/8" = 1'-0"

TYPE "B"
3/8" = 1'-0"

TYPICAL SECTIONS
(Retaining Wall.)

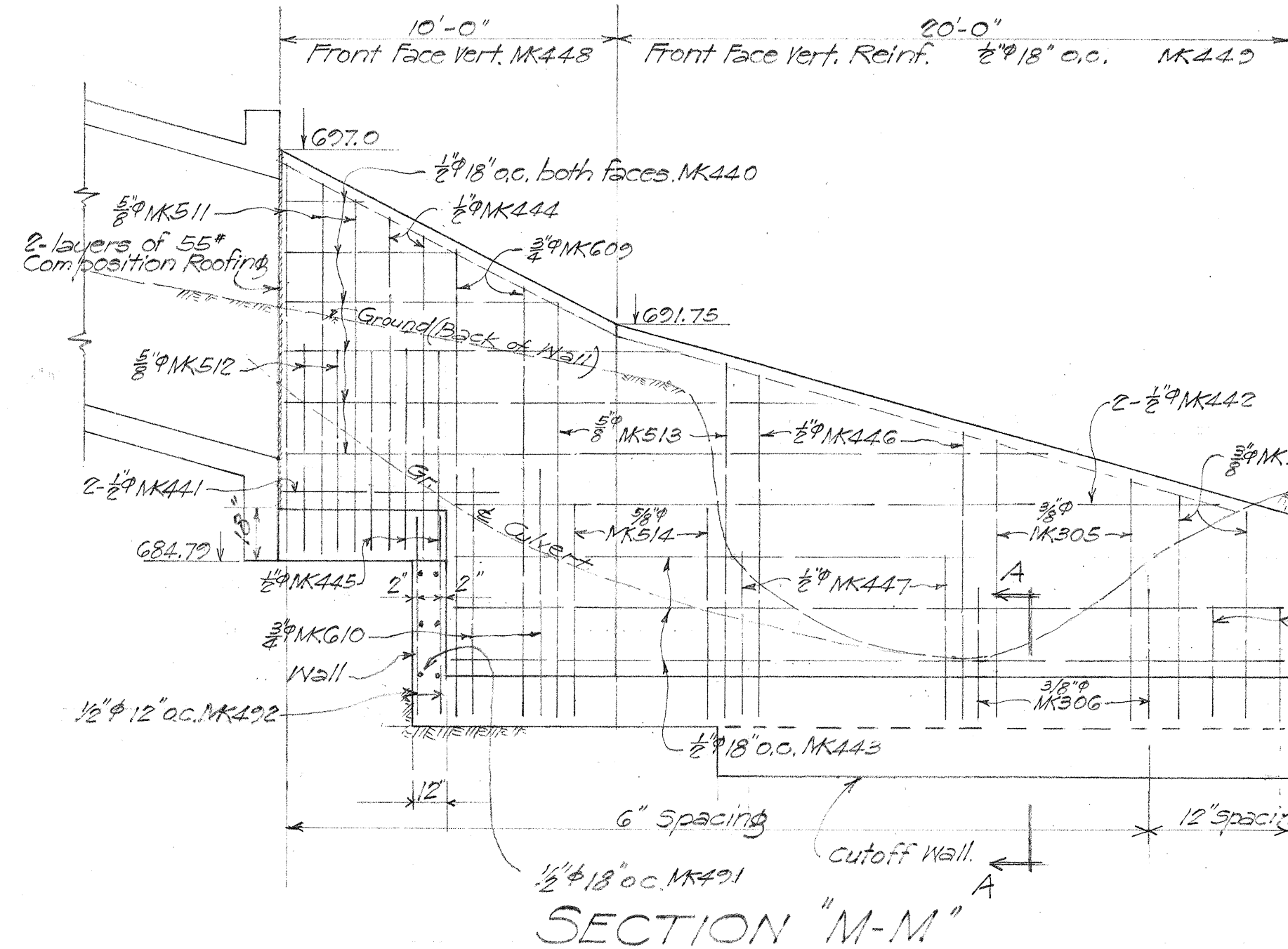
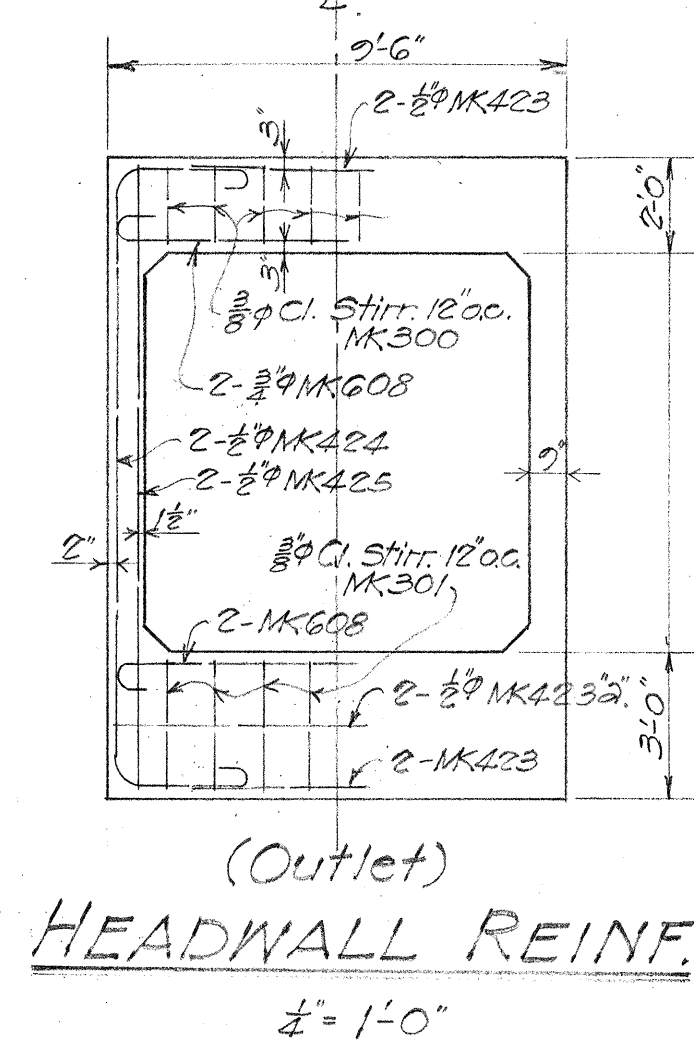
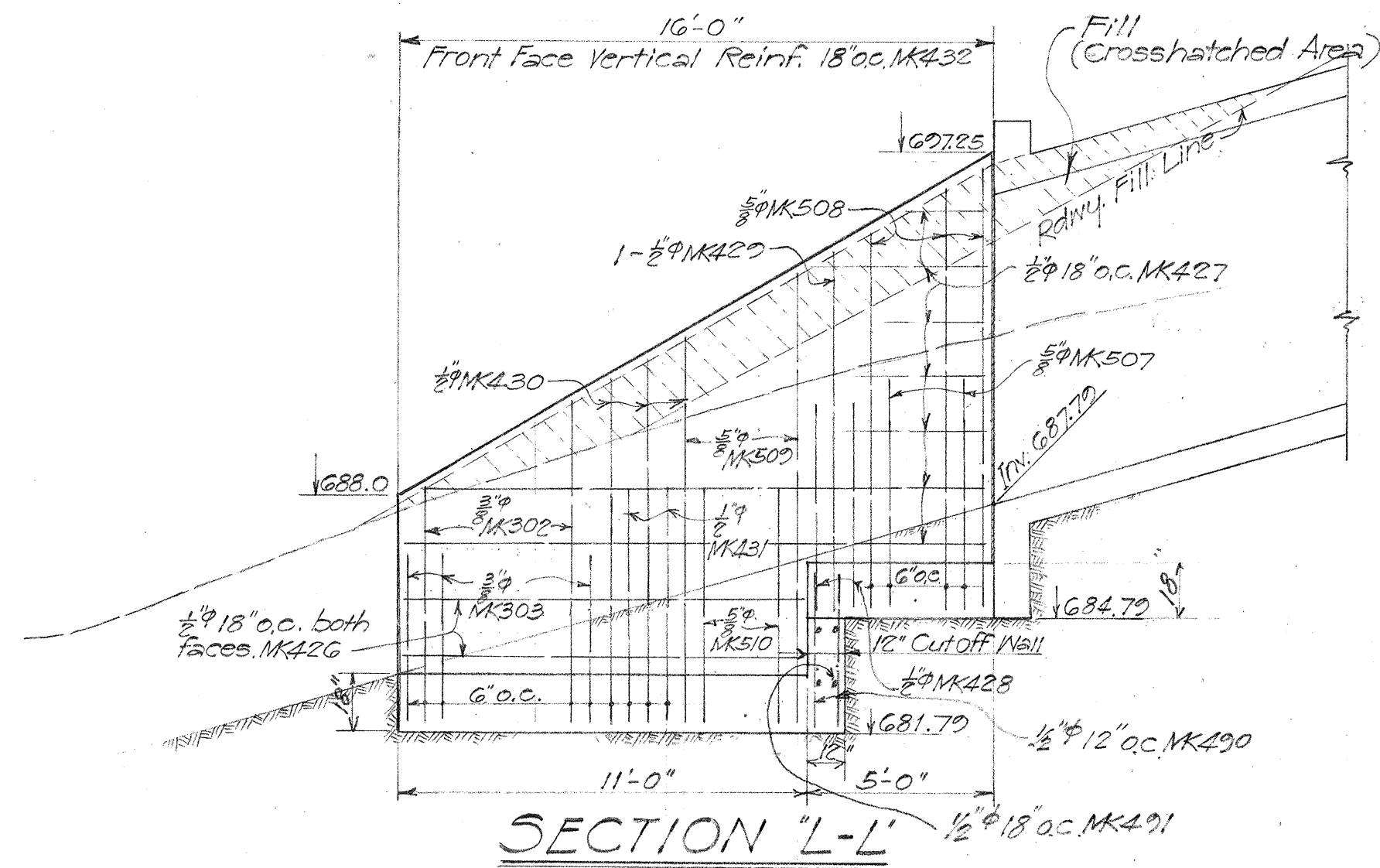
TYPE "C"
3/8" = 1'-0"

WINGWALL FTG. WALL
DETAIL
1/4" = 1'-0"

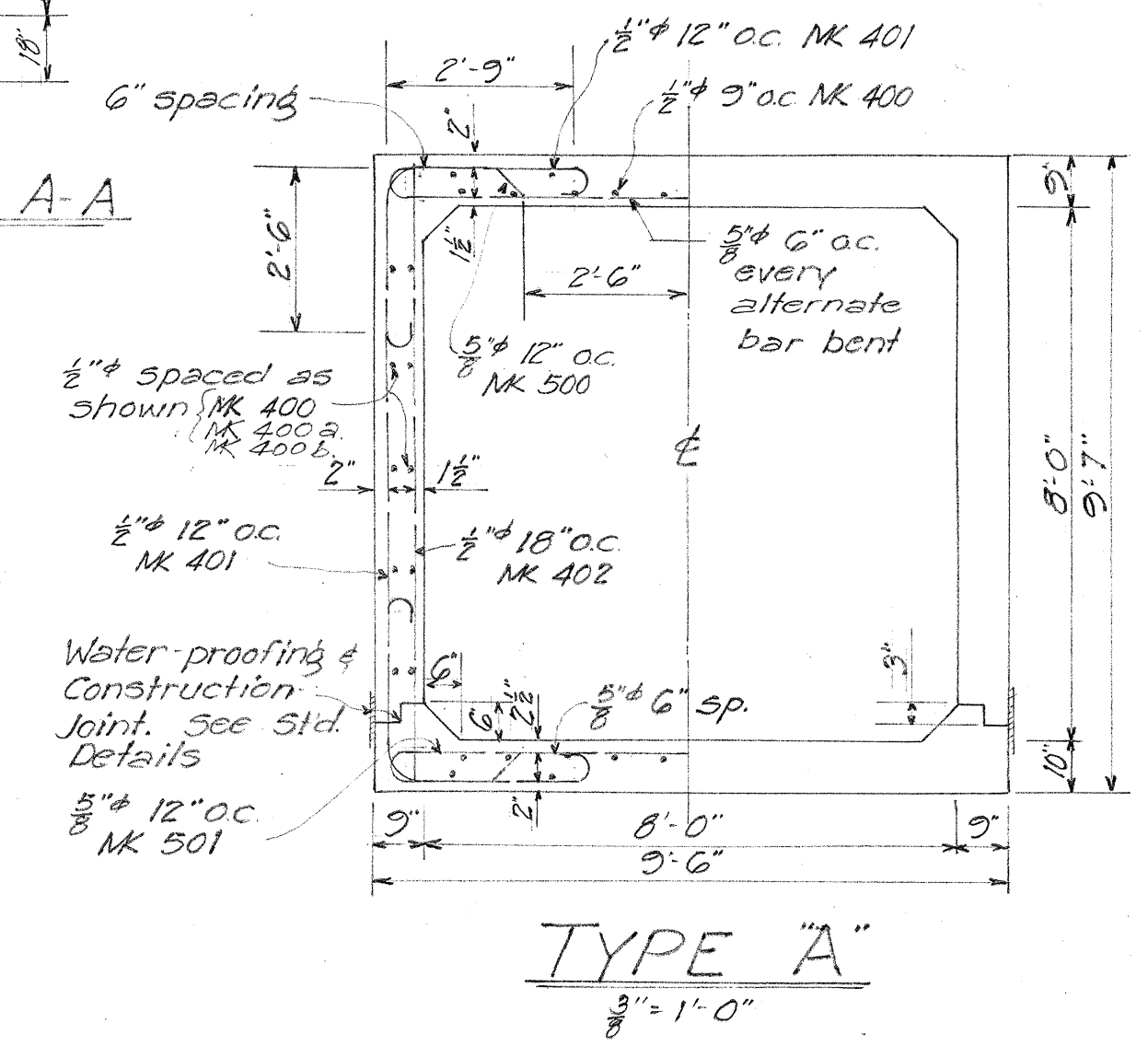
NOTE: See 8'x8' Conc. Box Culvert Sta. 47+50, Sheet # 3 for details of Conc. Ditch Joint.

ELEVATION "X-X"
1/2" = 1'-0"

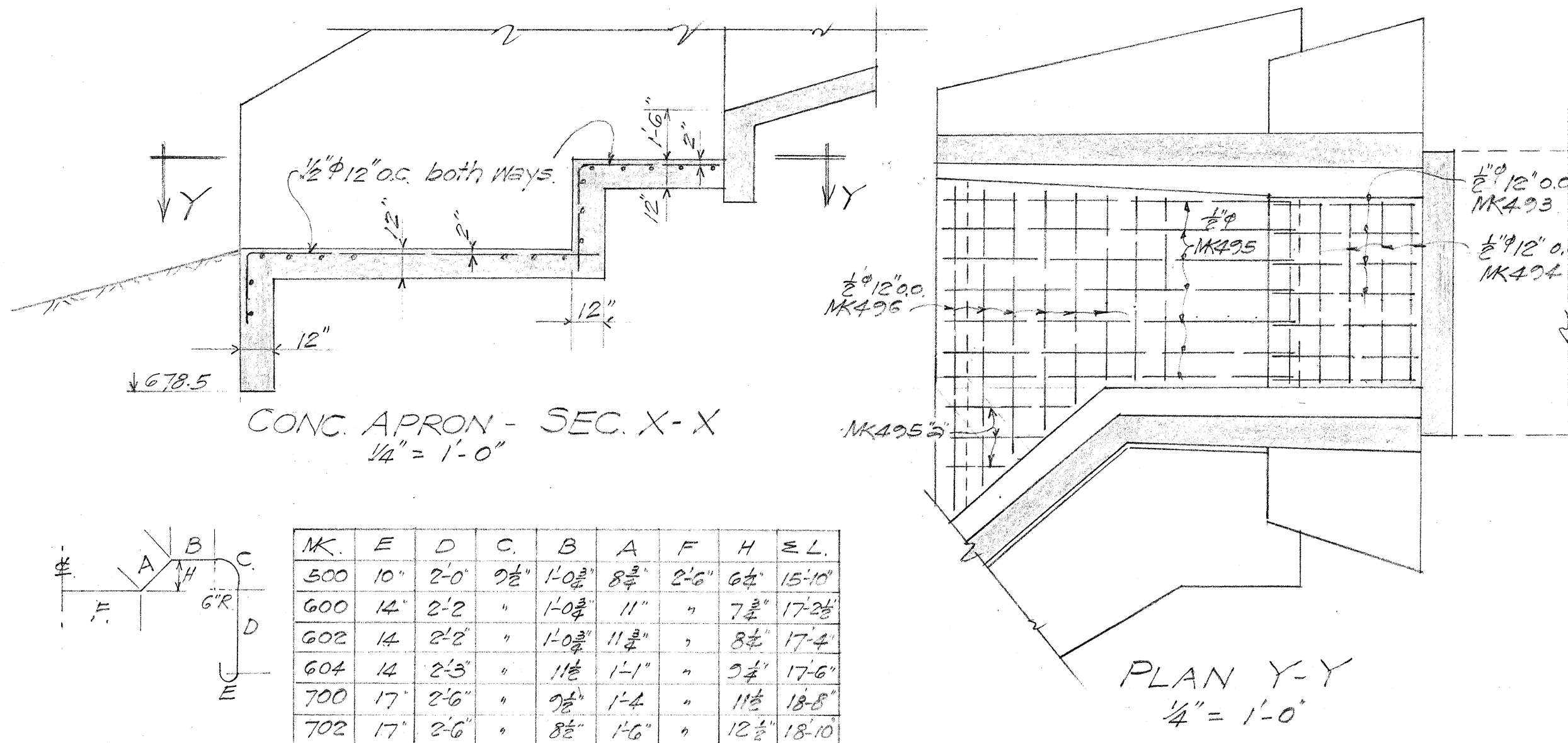
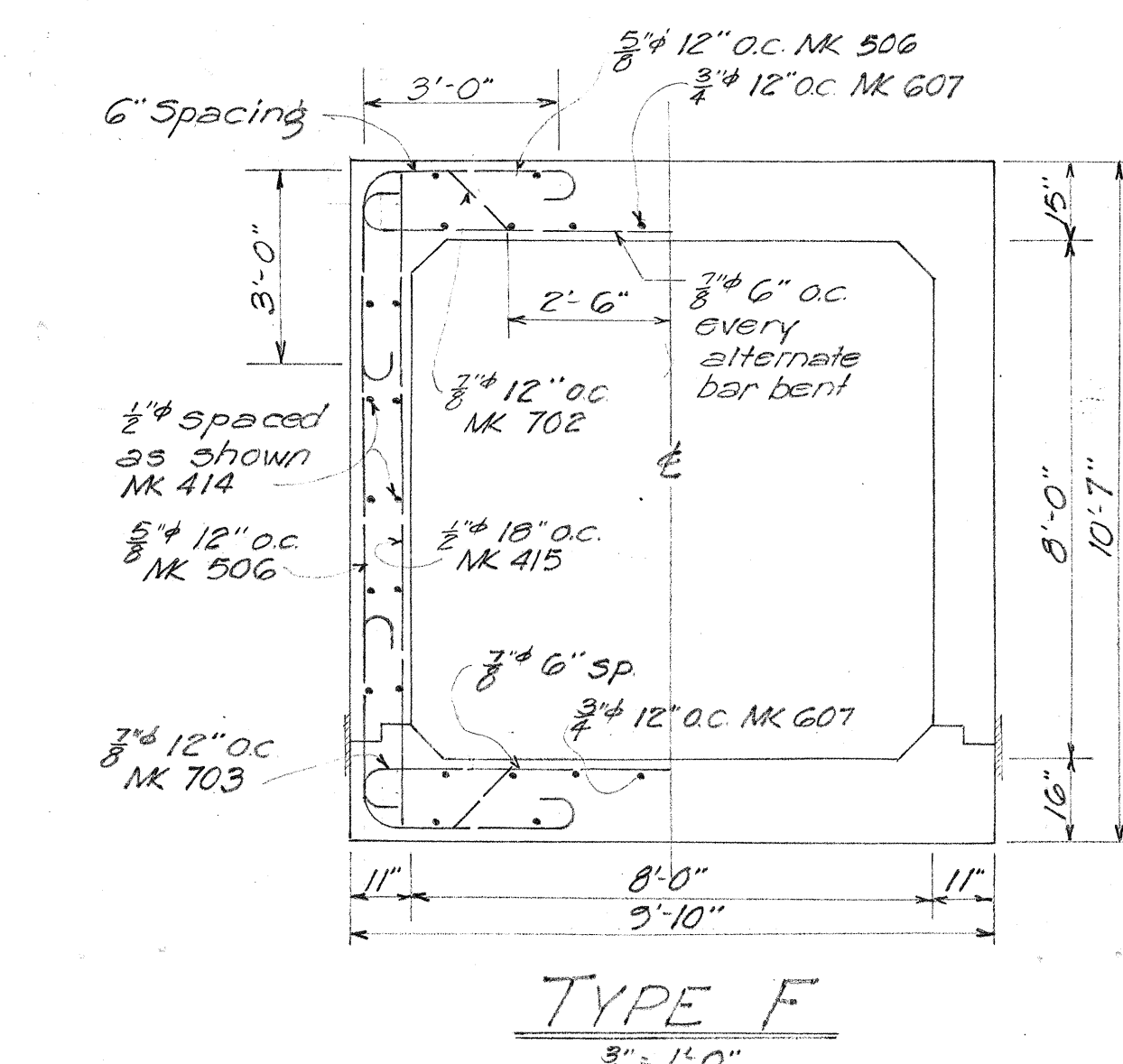
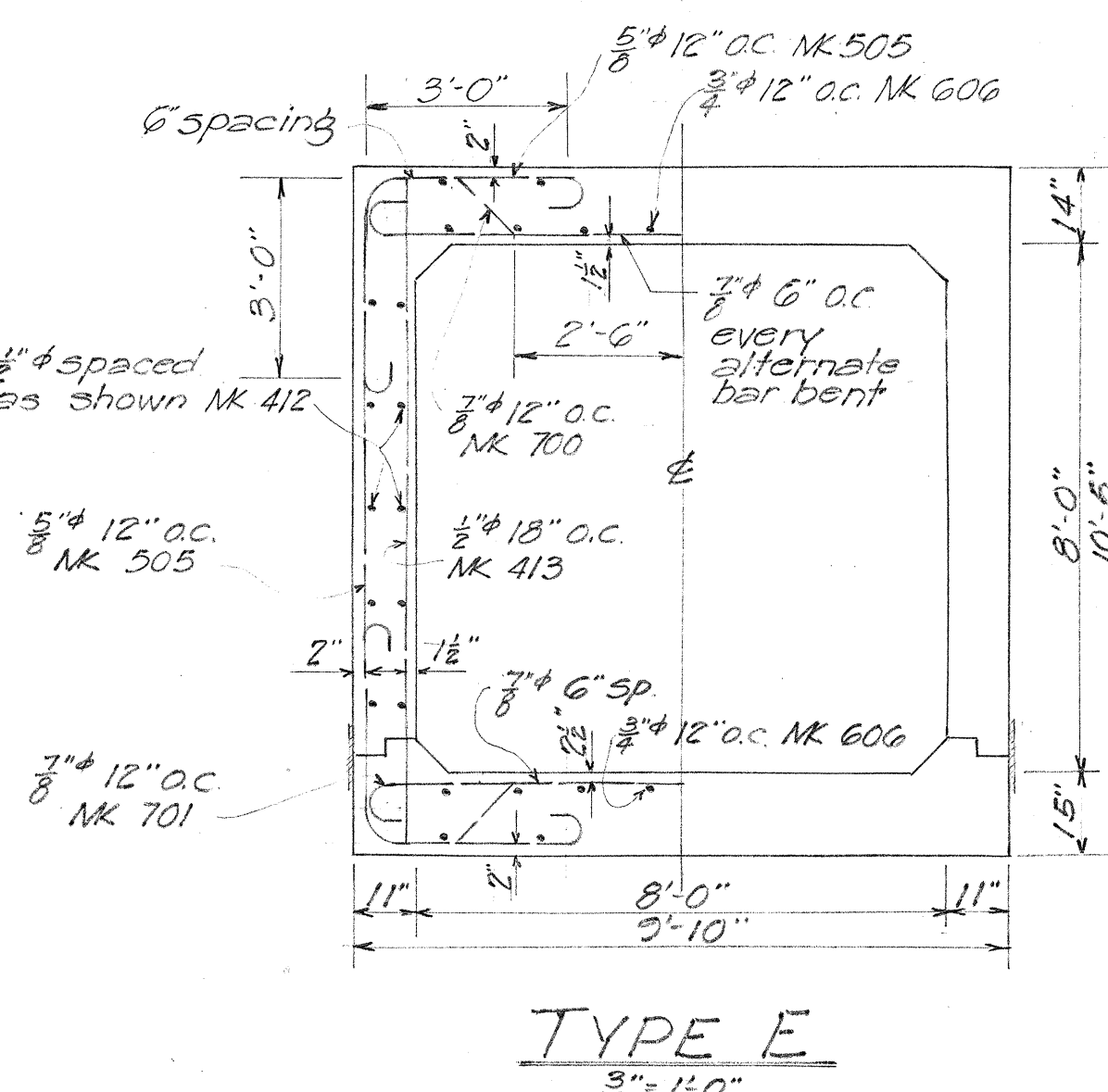
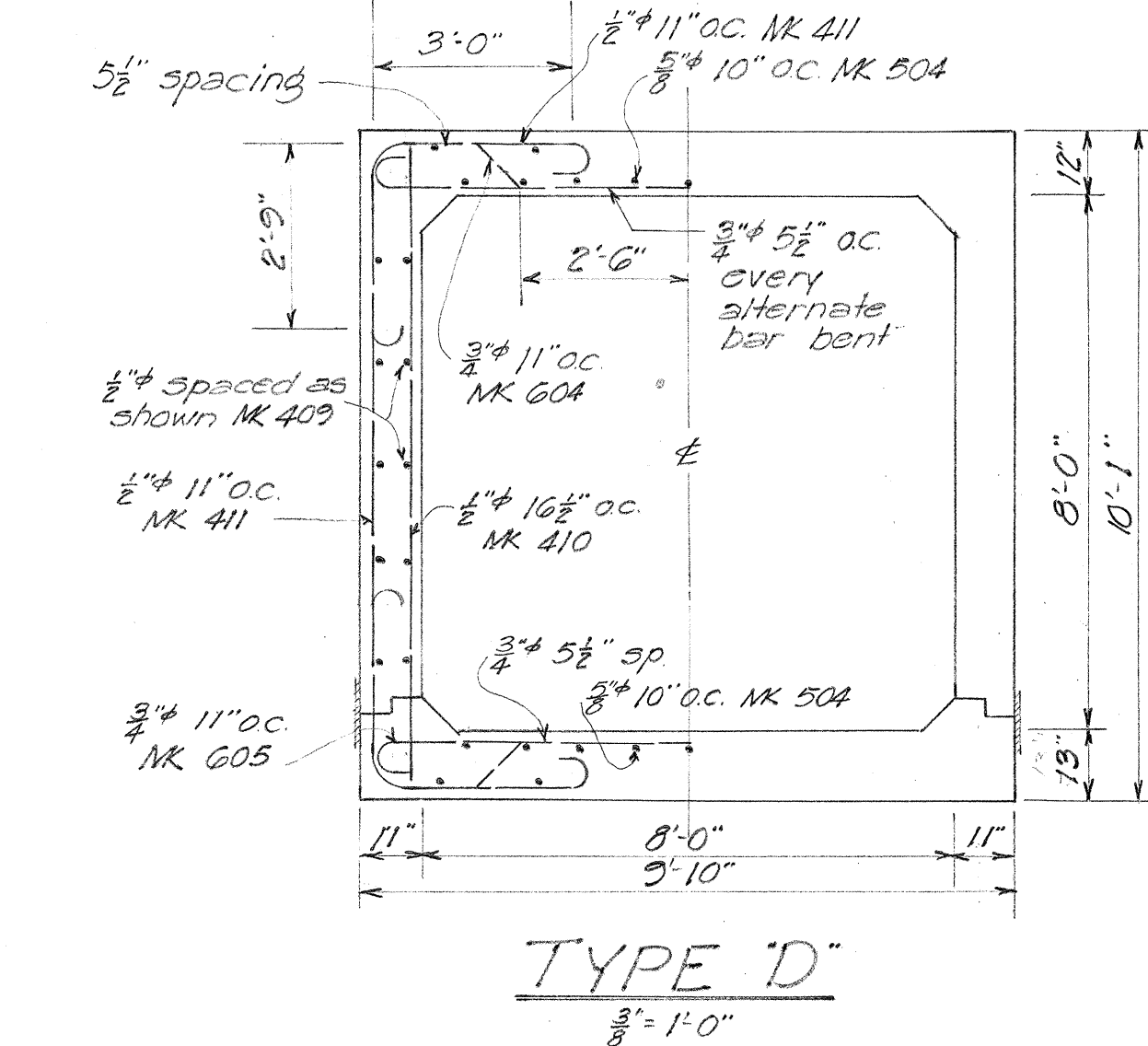
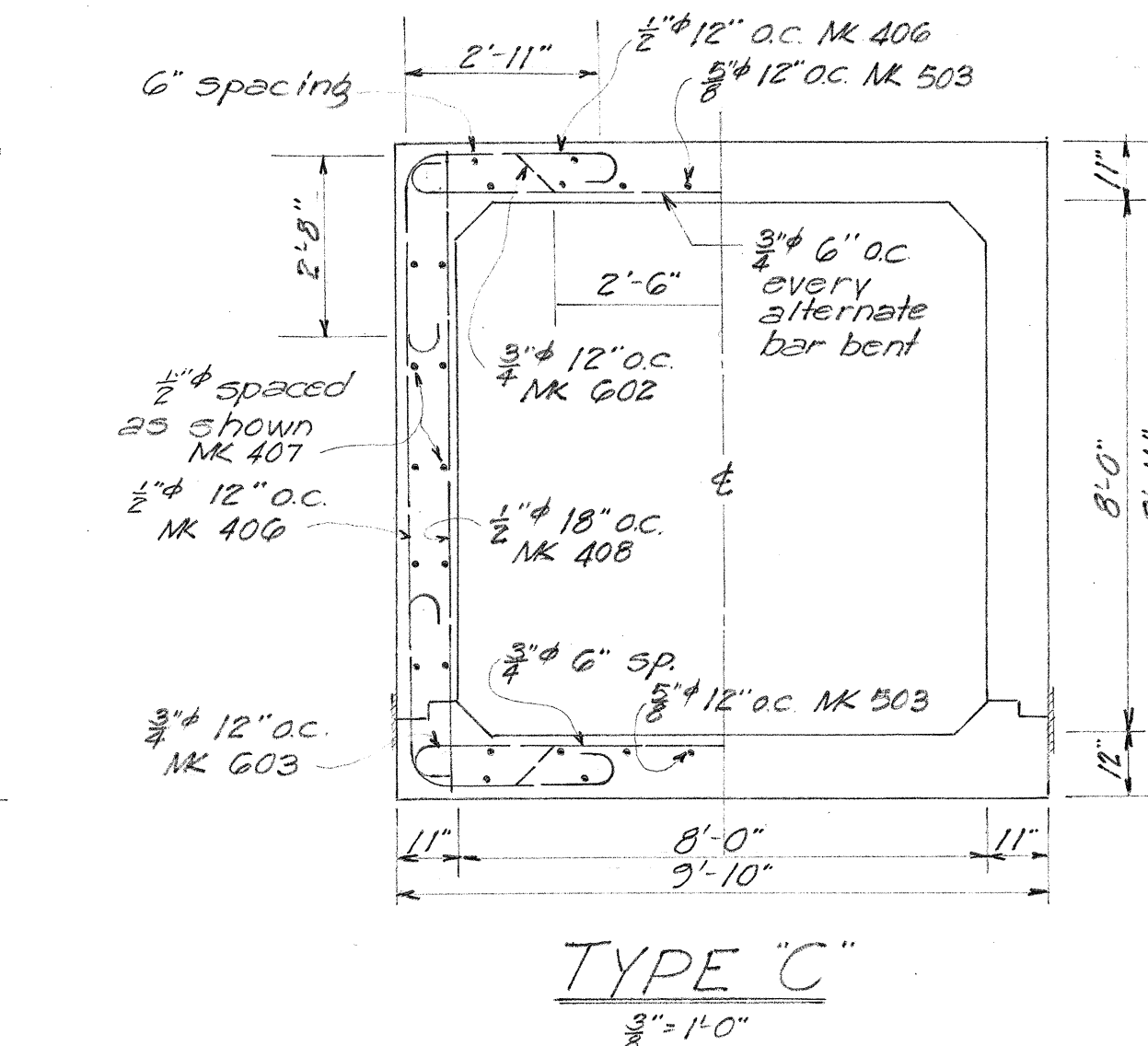
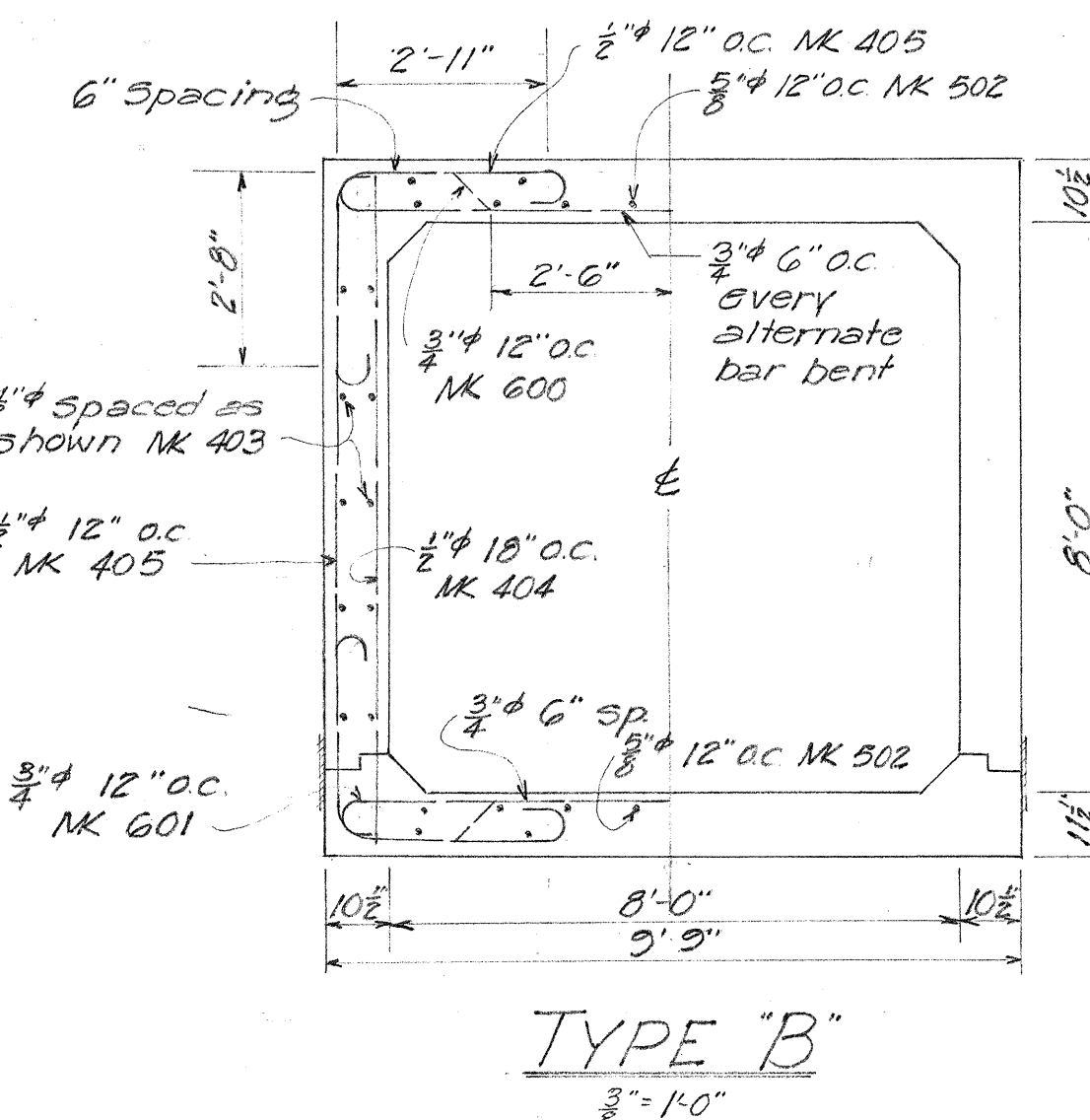
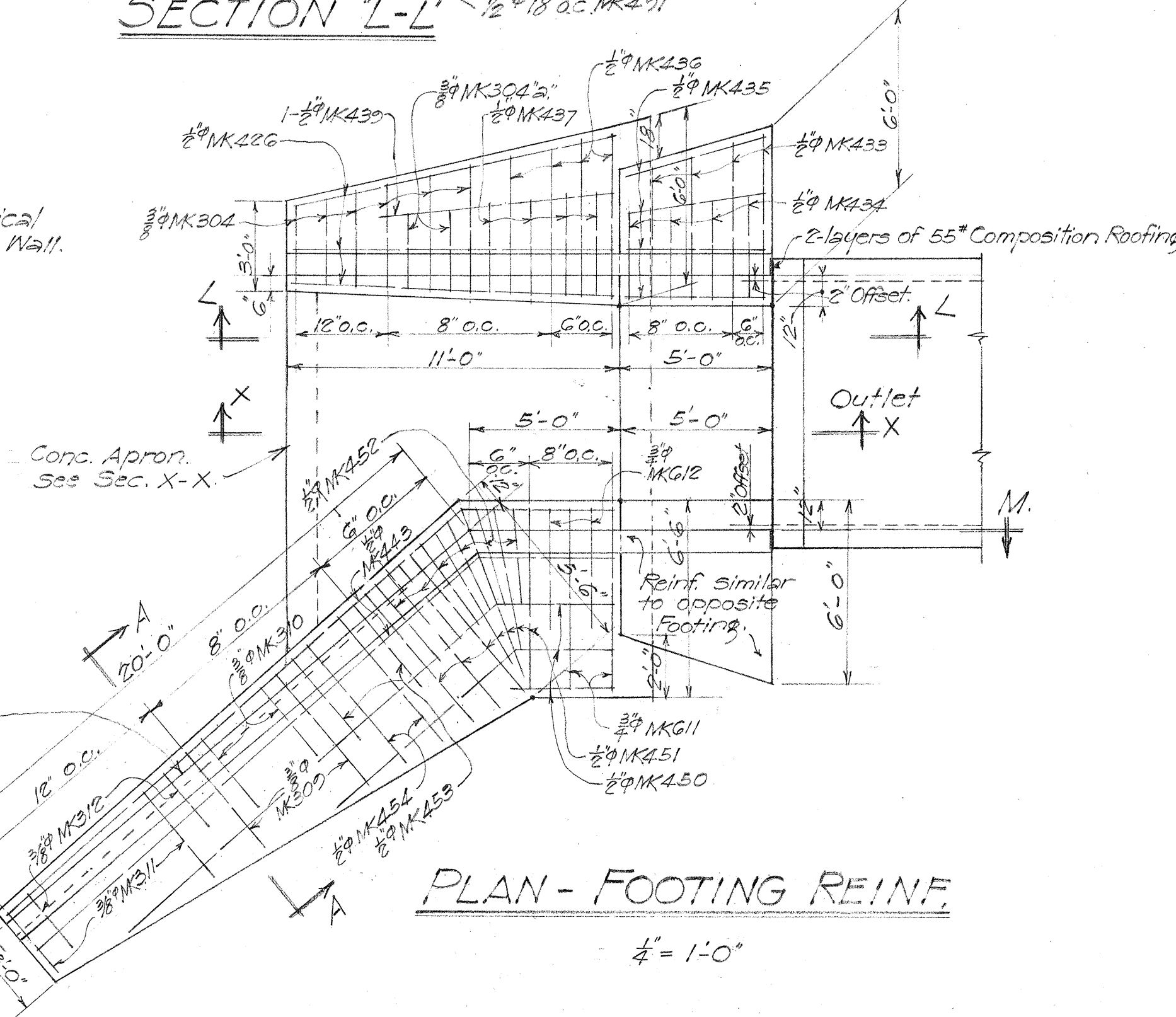
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
8'x8' BOX CULVERT
Lauhala Stream
Sta. 38+22
HAWAII BELT RD. SDR 3 (11)
Feb. 1950



SECTION A-A
1/4" = 1'-0"



NOTE:
See Sheet #2 for Typical Section of Retaining Wall.



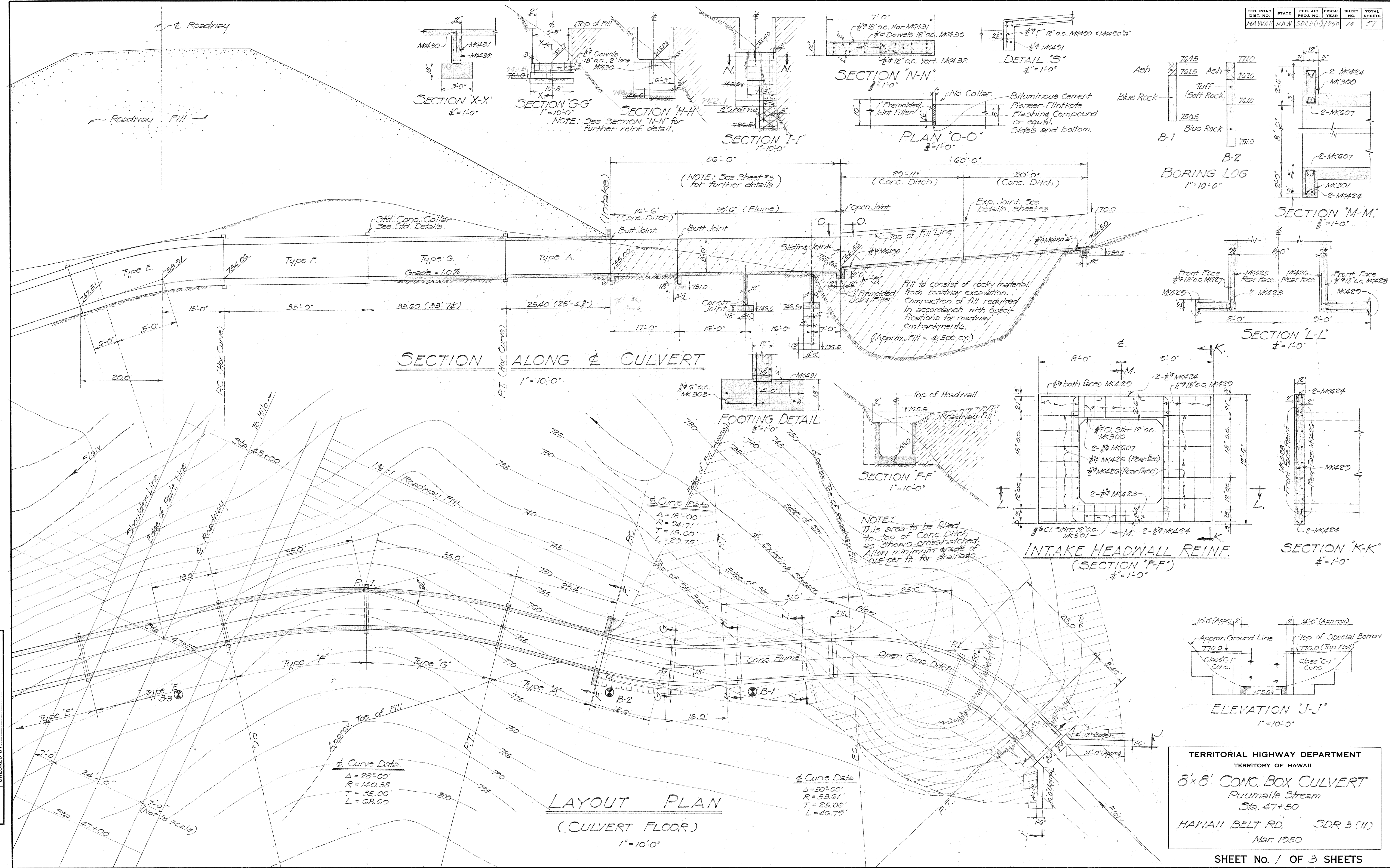
NK	A	B	C	D	Σ L
401	8'	2'-3"	9'	8'-3"	15'-3"
405	8'	2'-5"	"	8'-6"	16'-3"
406	8'	2'-5"	"	8'-7"	16'-4"
411	8'	2'-6"	"	8'-9"	16'-8"
505	10'	2'-6"	"	9'-1"	17'-4"
506	10'	2'-6"	"	9'-3"	17'-6"

NK	A	B	Σ L
501	10'	8'-3"	10'-3"
601	14'	8'-10"	11'-2"
603	14'	8'-11"	11'-3"
605	14'	8'-11"	11'-3"
701	17'	8'-9"	11'-7"
703	17'	8'-9"	11'-7"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
8'x8' BOX CULVERT
Lauhala Stream
Sta. 38+22
HAWAII BELT RD. SDR 3 (11)
Feb. 1950

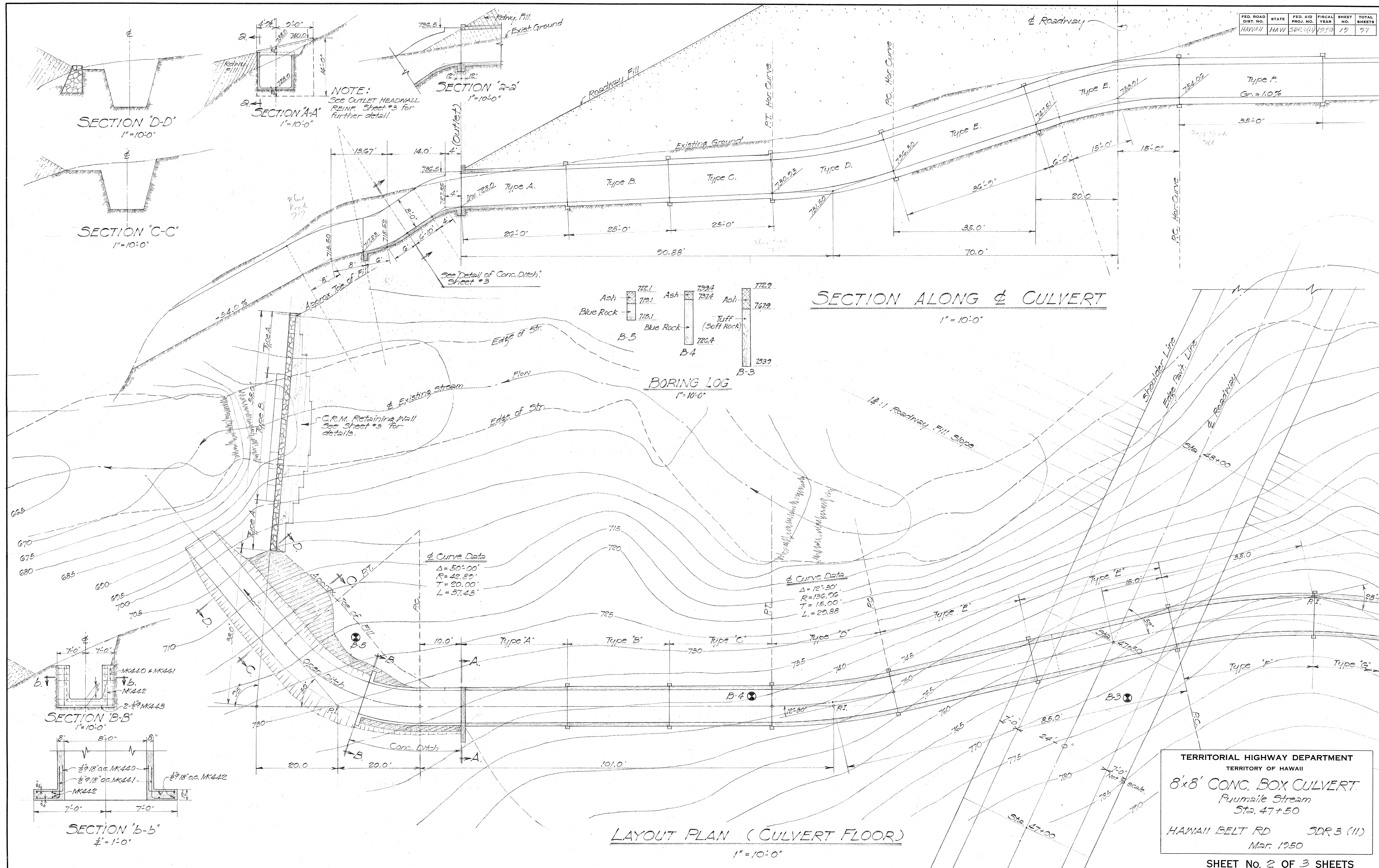
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]
NOTE: [Note]

SURVEY PLOTTED BY: DATE: 1/16/50
 DESIGNED BY: K. K. I. I. I.
 TRACED BY: K. K. I. I. I.
 QUANTITIES CHECKED BY: K. K. I. I. I.
 NO. 14



TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
8'x8' CONC. BOX CULVERT
 Puumale Stream
 Sta. 47+50
 HAWAII BELT RD. SDR 3 (11)
 MAR. 1950

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDR 3(11)	1950	15	27

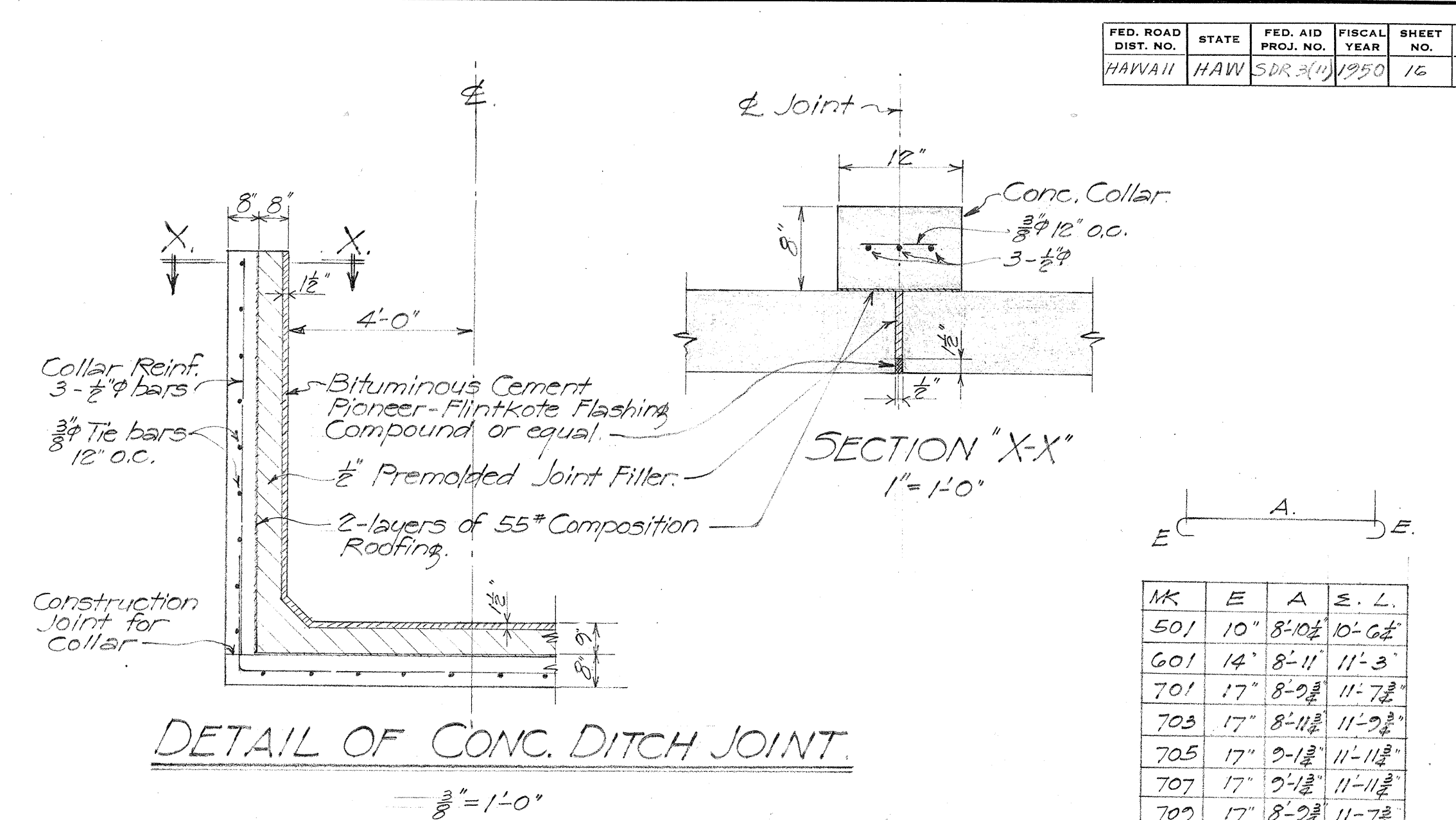
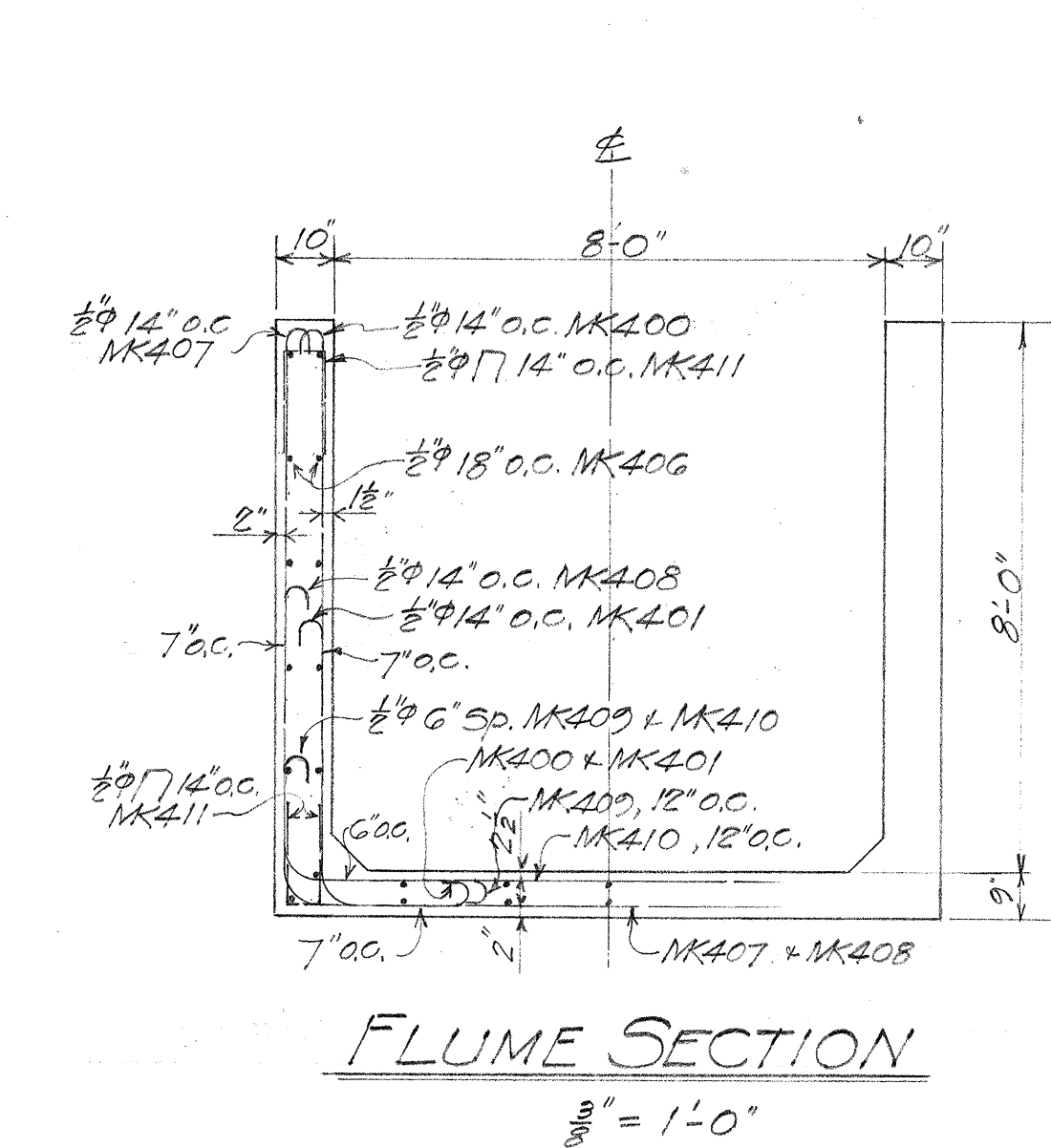
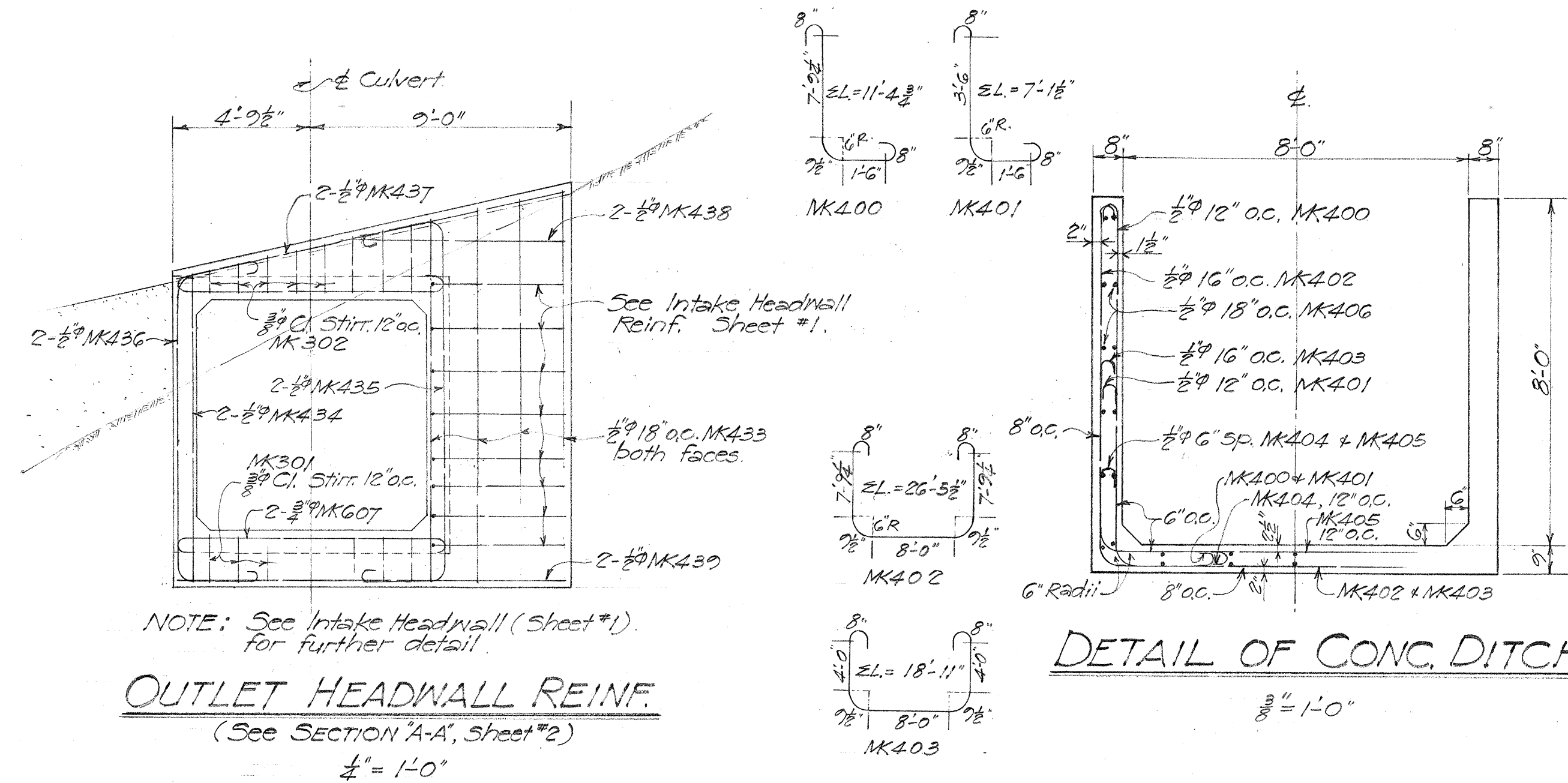


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
8'x8' CONC. BOX CULVERT
Puumale Stream
Sta. 47+50
HAWAII BELT RD SDR 3 (11)
Mar. 1950

SHEET No. 2 OF 3 SHEETS

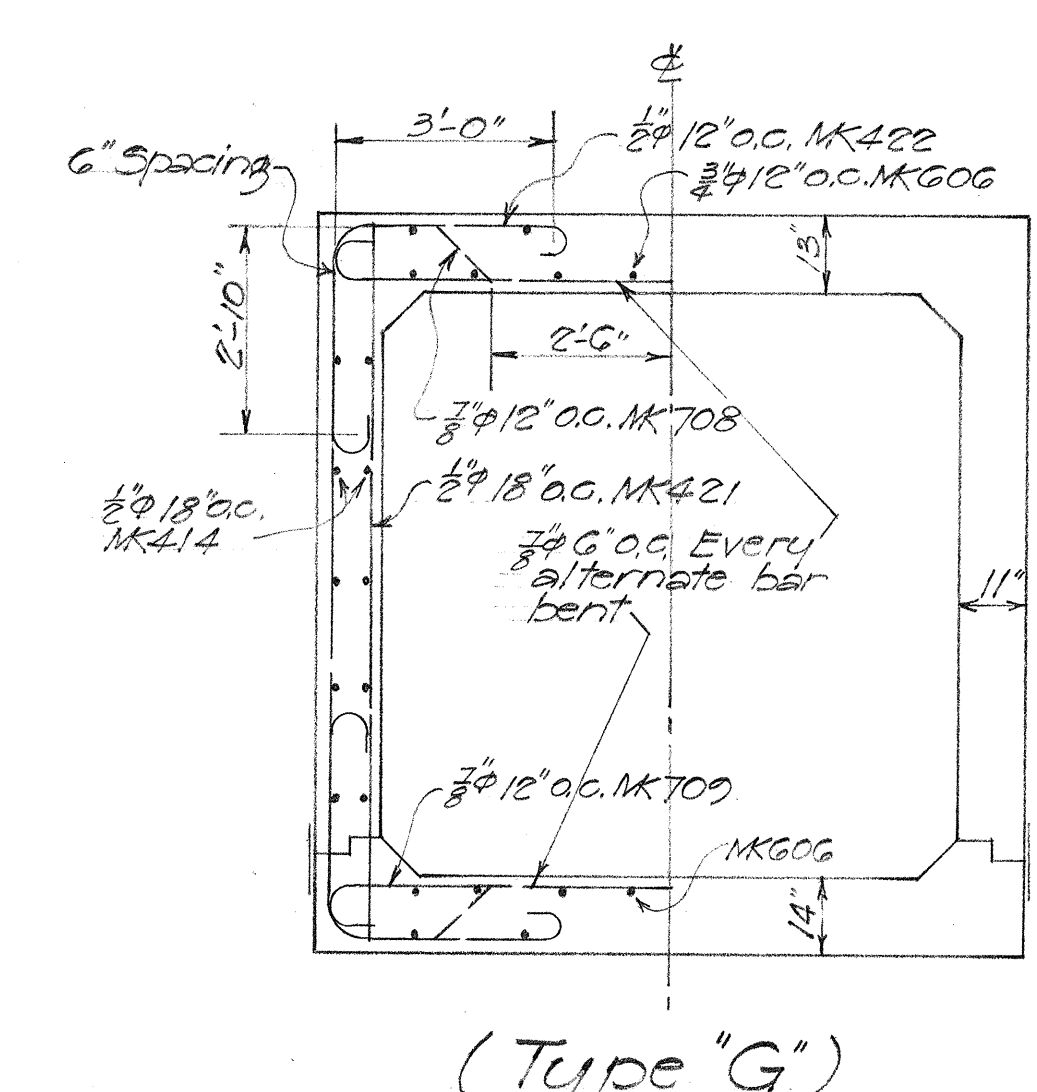
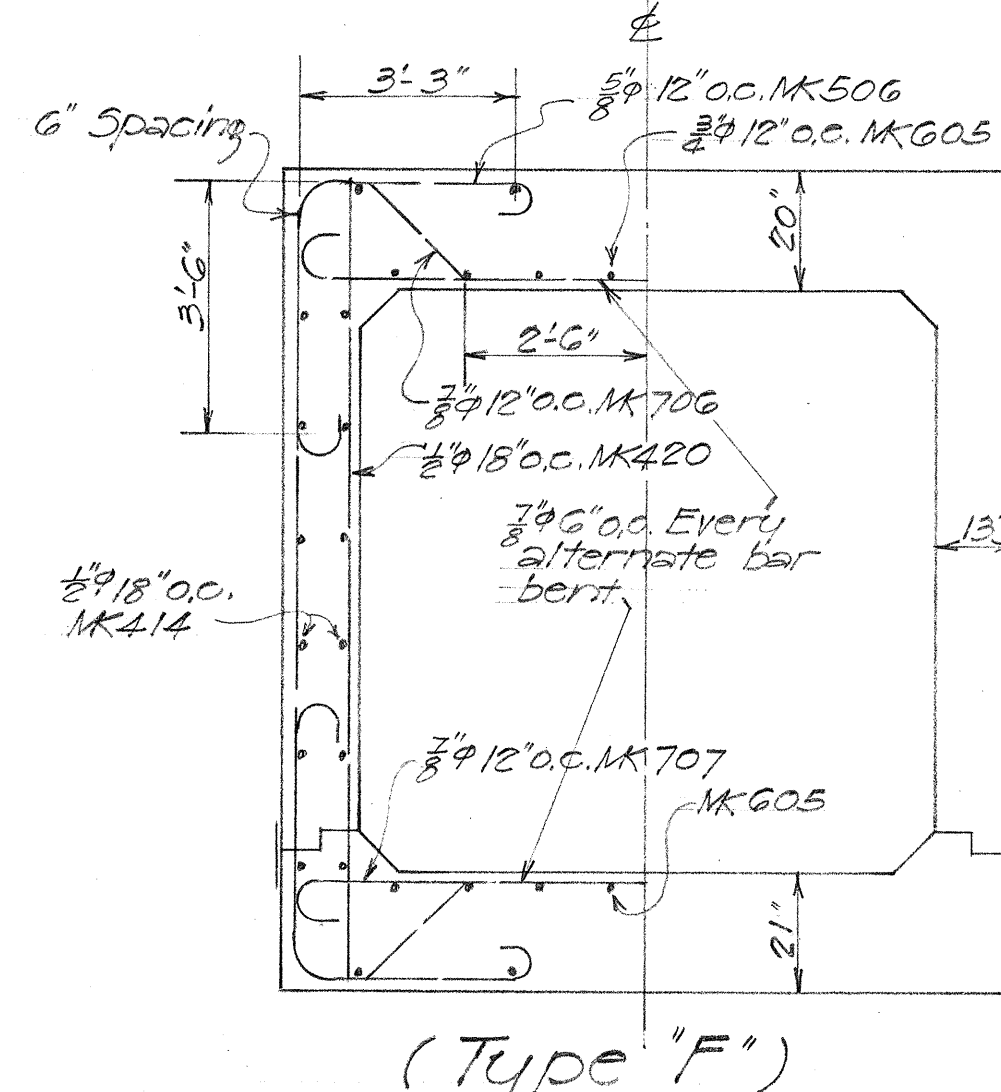
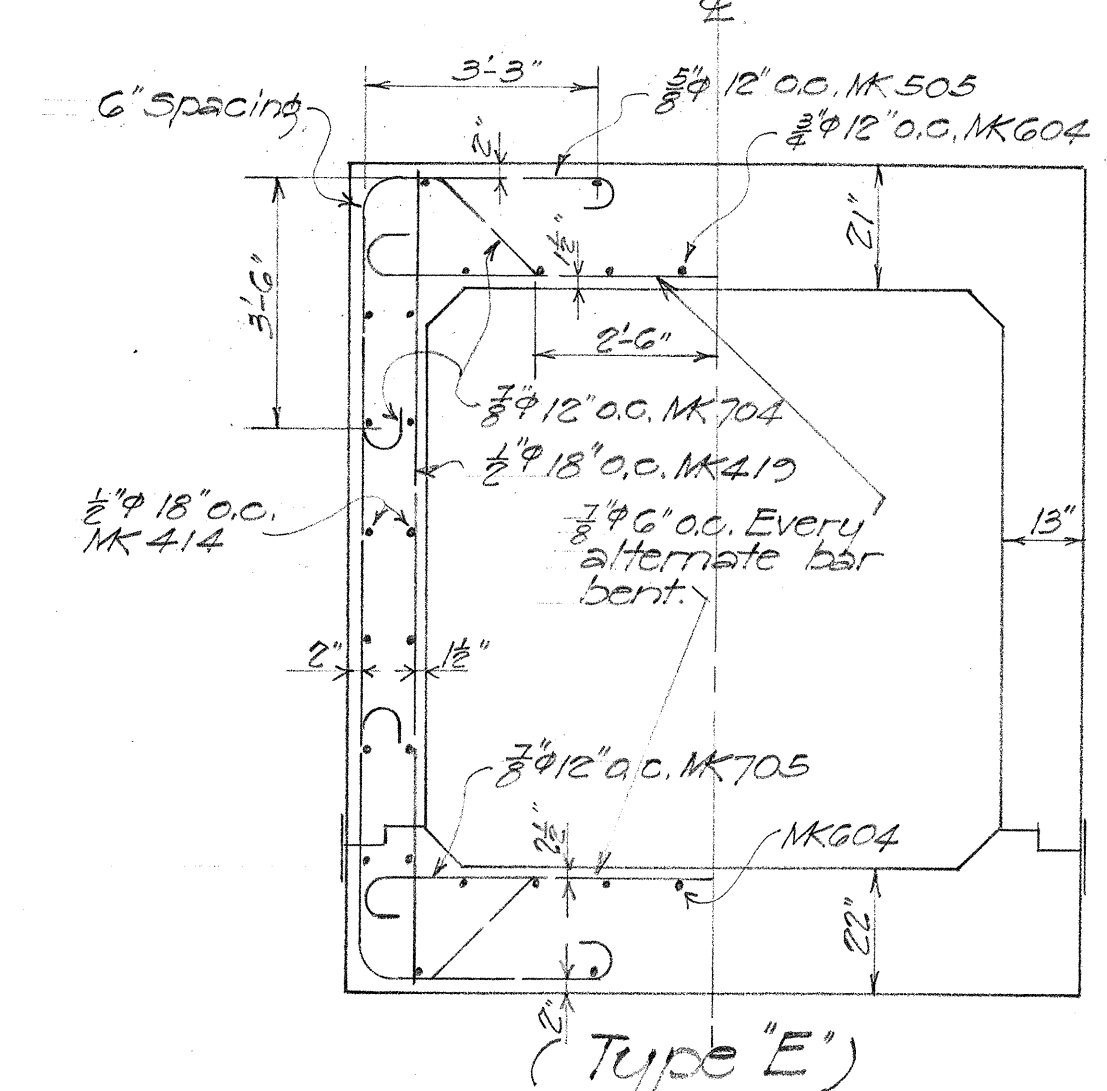
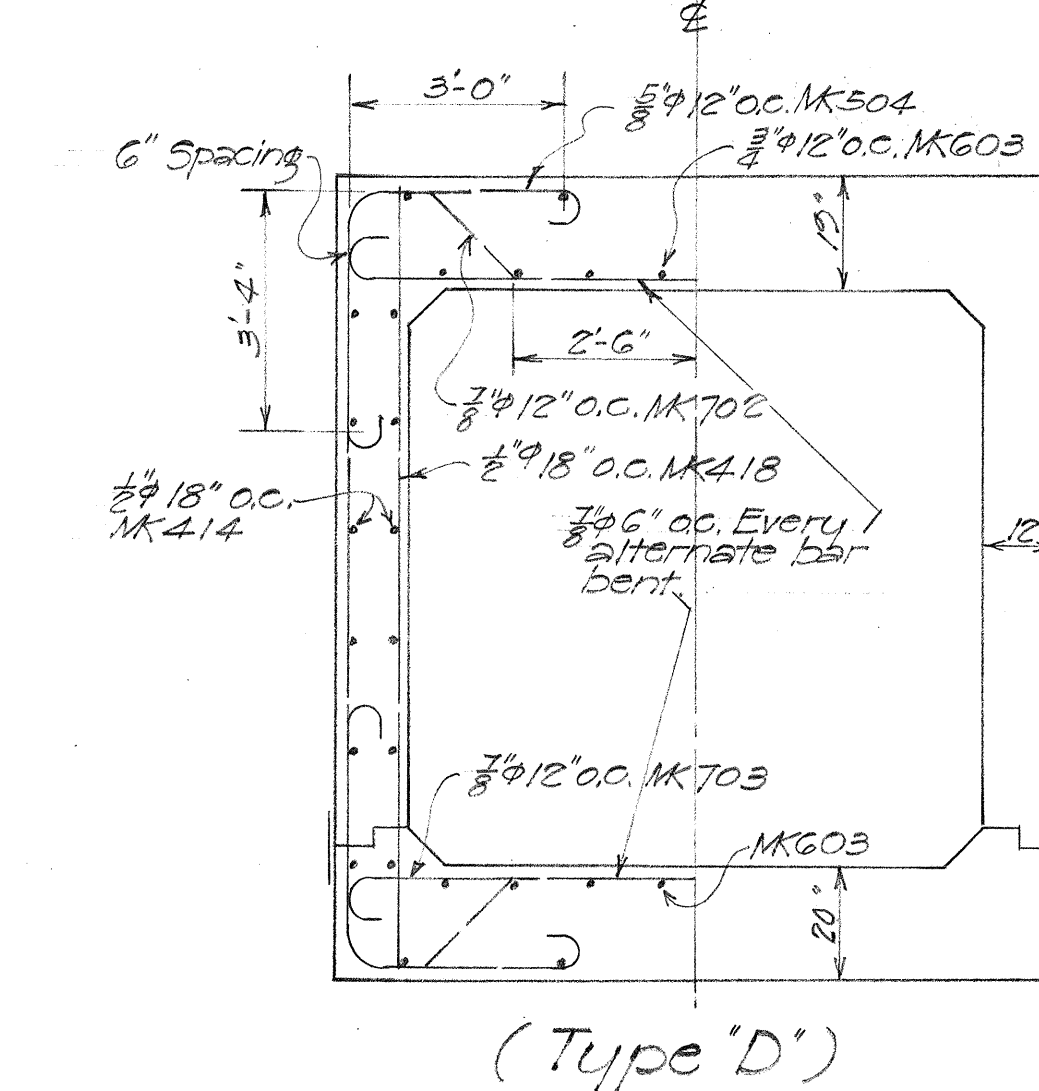
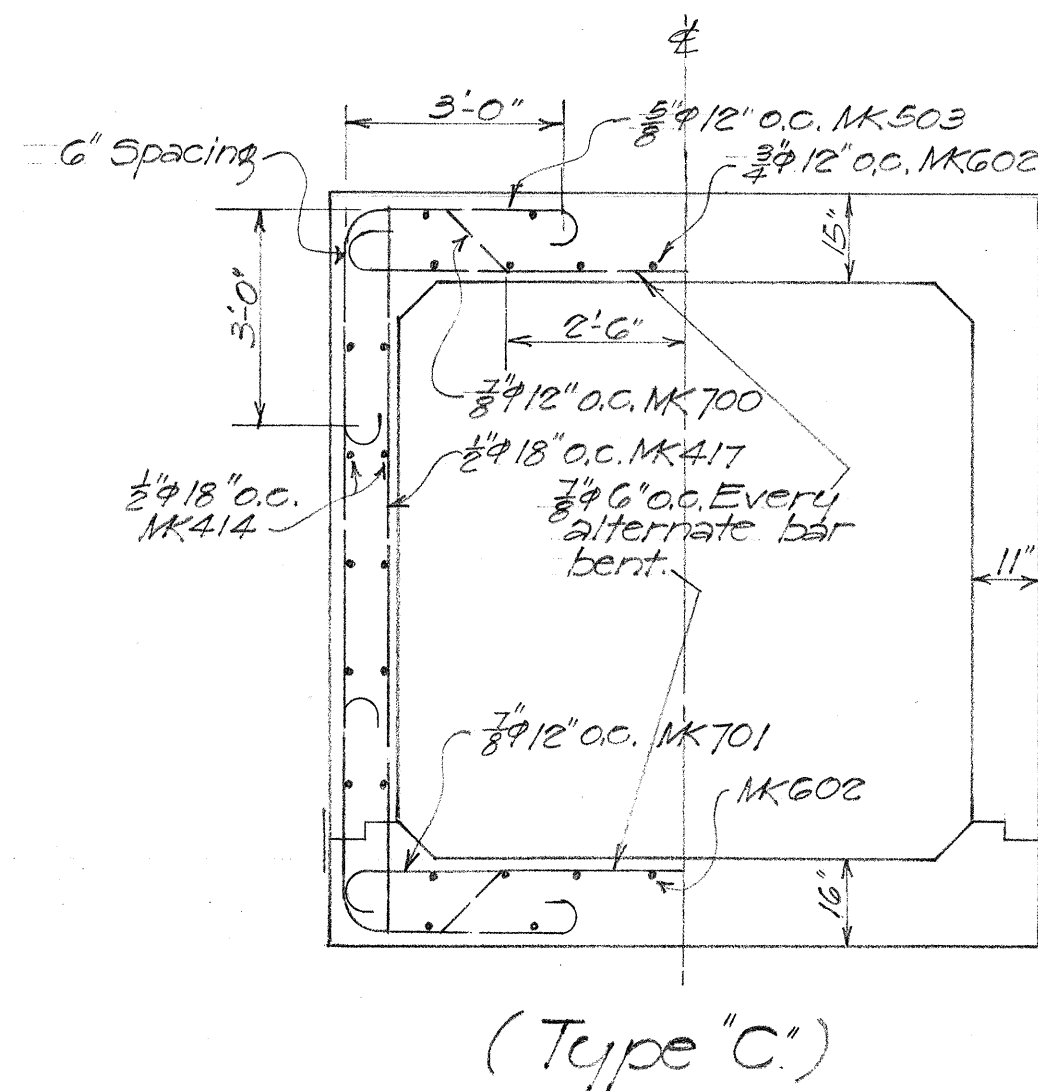
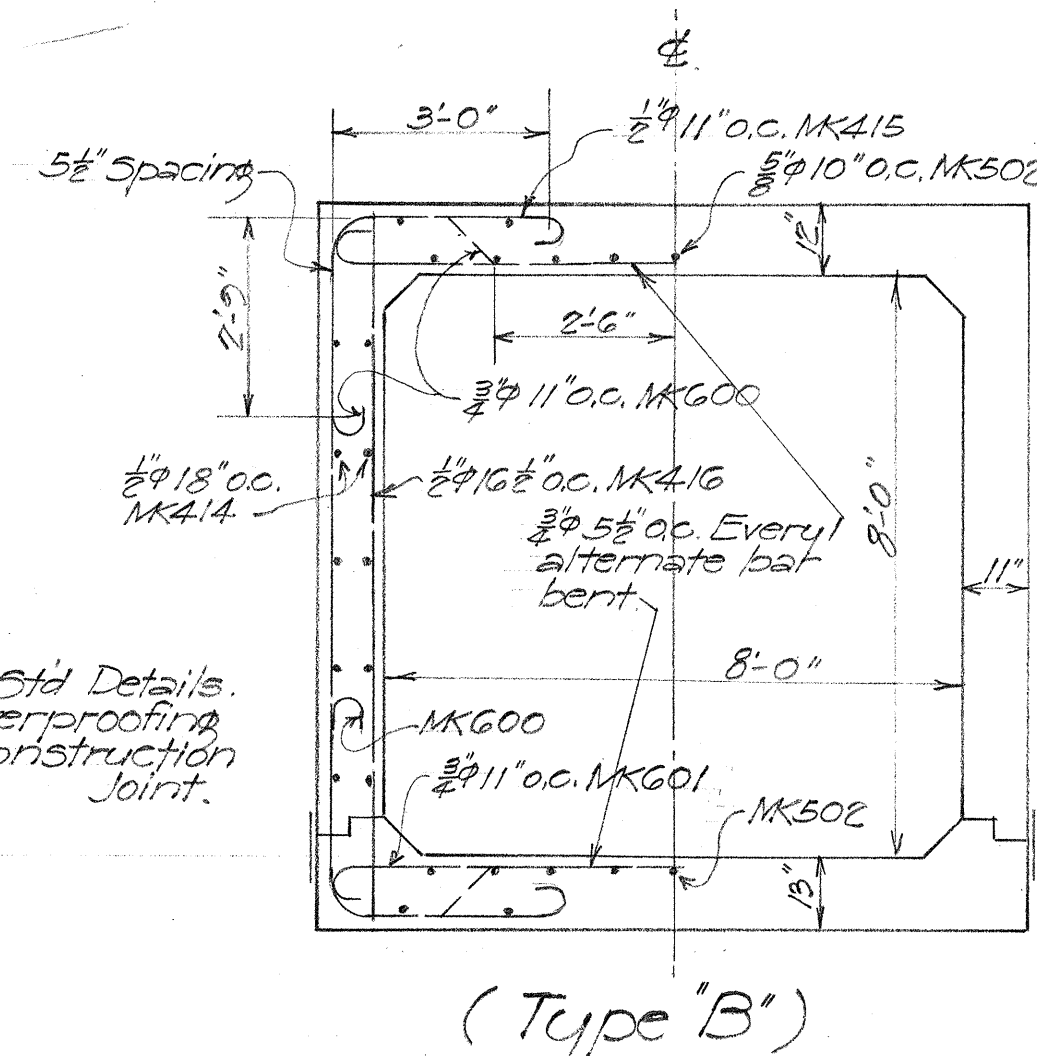
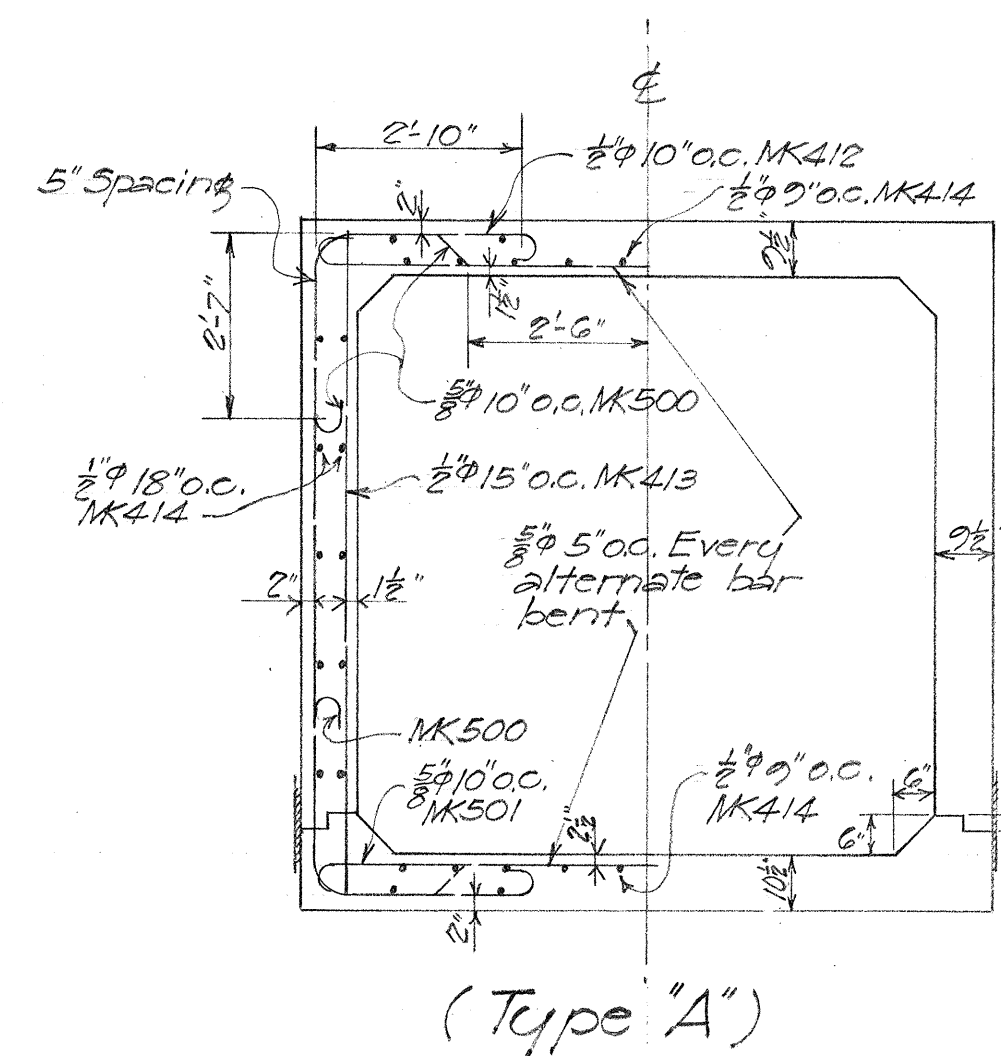
5426.15

SURVEY PLOTTED BY: DATE: 11/1/50
 DRAWN BY: K. K. KENNEDY
 CHECKED BY: J. J. JENNINGS
 ORIGINAL PLAN NO. 104
 NOTE BOOK NO. 104

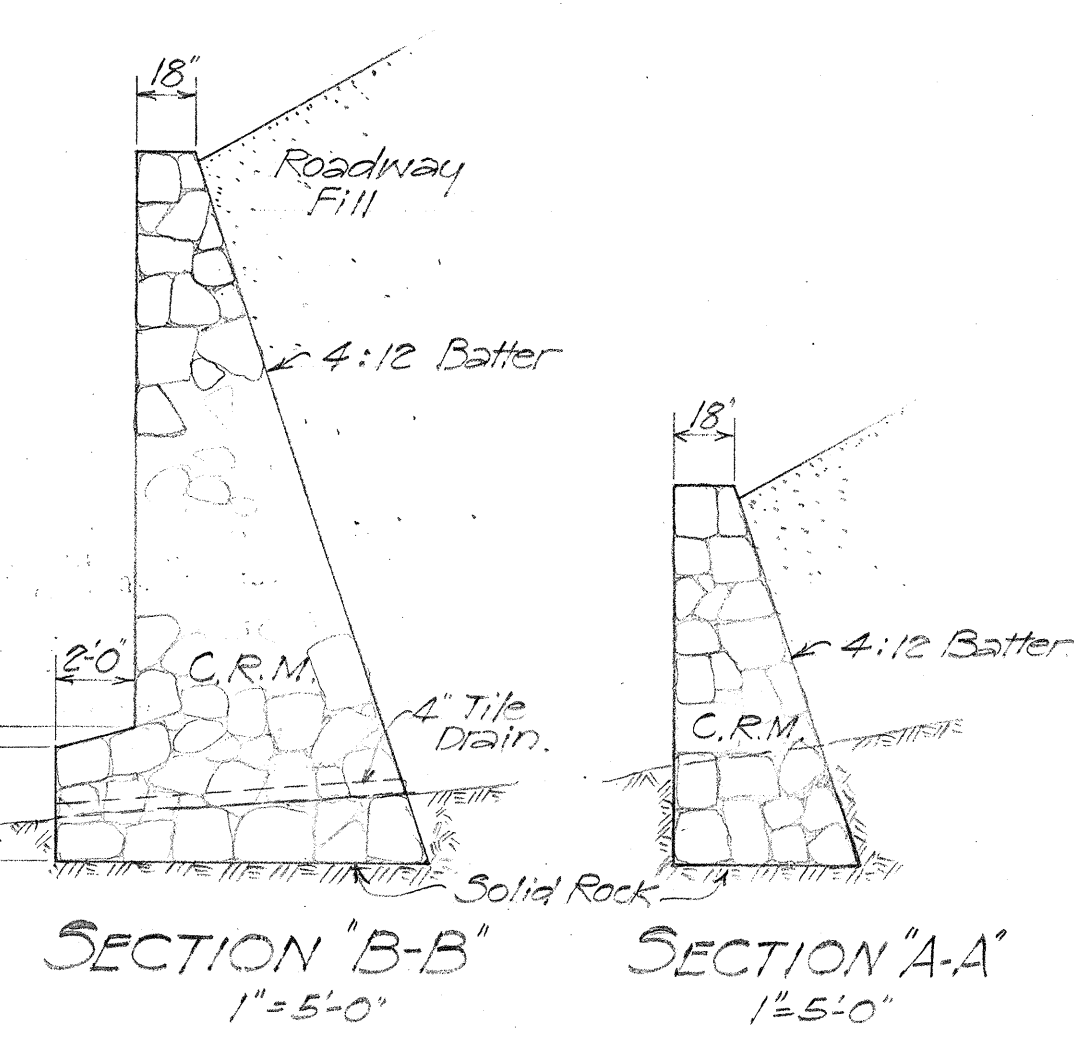
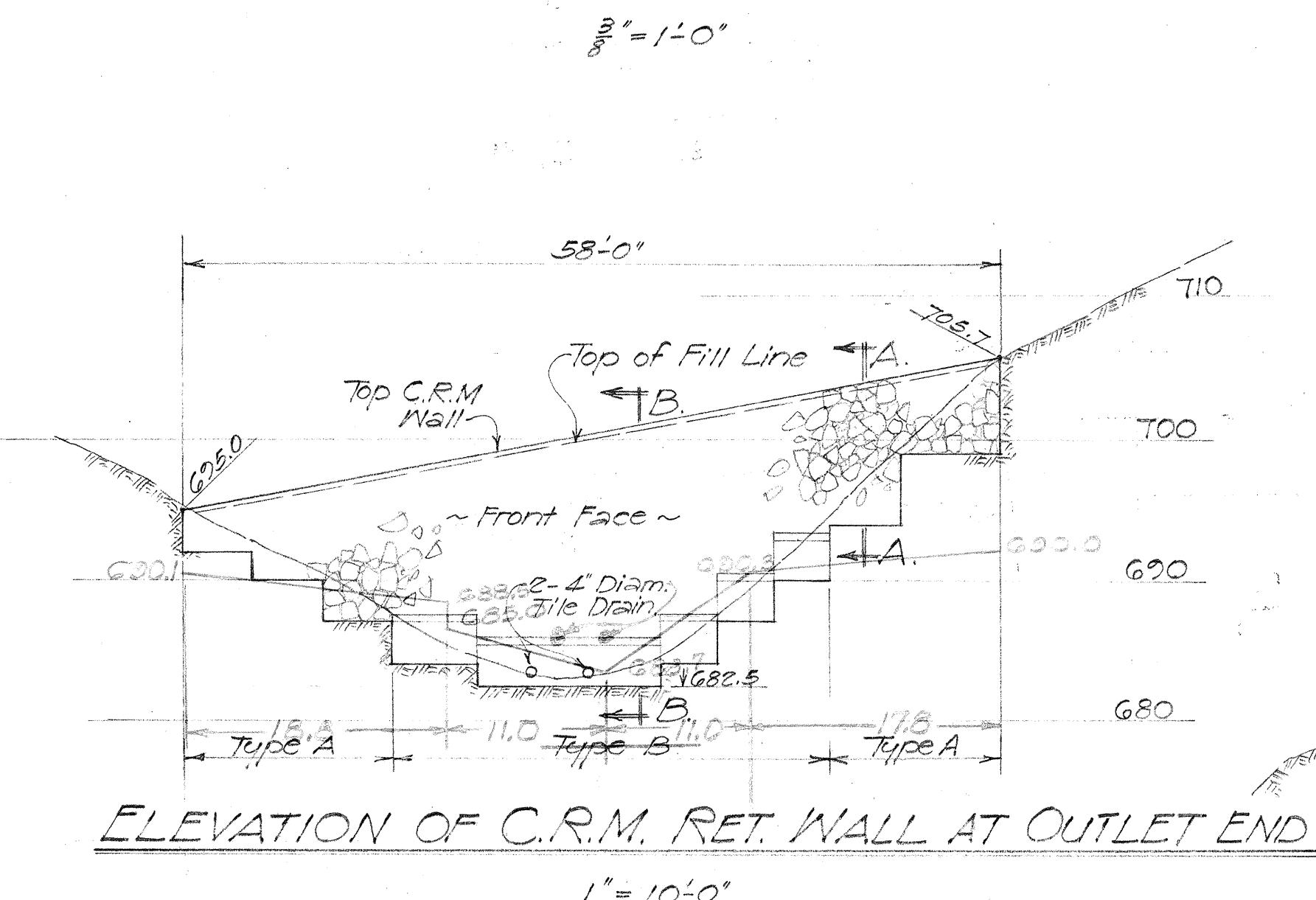


MARK	E	A	E. L.
501	10'	8'-10"	10'-0"
601	14'	8'-11"	11'-3"
701	17'	8'-2"	11'-7"
703	17'	8'-11"	11'-9"
705	17'	9'-13"	11'-11"
707	17'	9'-4"	11'-11"
709	17'	8'-2"	11'-7"

NOTE: MK701 = MK709
MK705 = MK707



CULVERT SECTIONS



ESTIMATED QUANTITIES

Class "A-1" Conc.	574.4 CY
Class "C-1" Conc.	27 CY
C.R.M.	100 CY
Reinf. Steel	62,725 Lbs
Struct. Exc.	2,100 CY
Channel Exc.	300 CY

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
8'x8' CONC. BOX CULVERT
Puumale Stream
Sta. 47+50
HAWAII BELT RD. SDR 3 (11)
MAR, 1950

SURVEY PLOTTED BY: DATE: 10/2/50
DRAWN BY: K. K. K. K.
CHECKED BY: K. K. K. K.
NOTE BOOK NO. 1000

MARK	E	C	A	B	E. L.
412	8'	2'-4"	2'-4"	8'-4"	15'-11"
415	8'	2'-6"	2'-6"	8'-5"	15'-8"
503	10'	2'-6"	2'-3"	17'-6"	
504	10'	2'-6"	2'-11"	18'-2"	
505	10'	2'-9"	10'-3"	19'-0"	
506	10'	2'-9"	10'-4"	18'-10"	
422	8'	2'-6"	8'-11"	16'-10"	

MARK	E	D	C	B	A	F	H	E. L.
500	10'	2'-11"	2'-6"	1'-0"	2'-6"	2'-6"	6'-8"	16'-15"
600	14'	2'-3"	11'-1"	1'-1"	2'-6"	2'-6"	17'-0"	
700	17'	2'-6"	5'-8"	1'-5"	2'-6"	1'-0"	18'-7"	
702	17'	2'-10"	5'-8"	1'-11"	2'-6"	1'-4"	19'-10"	
704	17'	3'-0"	4'-8"	2'-2"	2'-6"	1'-6"	20'-6"	
706	17'	3'-0"	5'-8"	2'-0"	2'-6"	1'-5"	20'-5"	
708	17'	2'-4"	10'-8"	1'-3"	2'-6"	10'-8"	18'-4"	