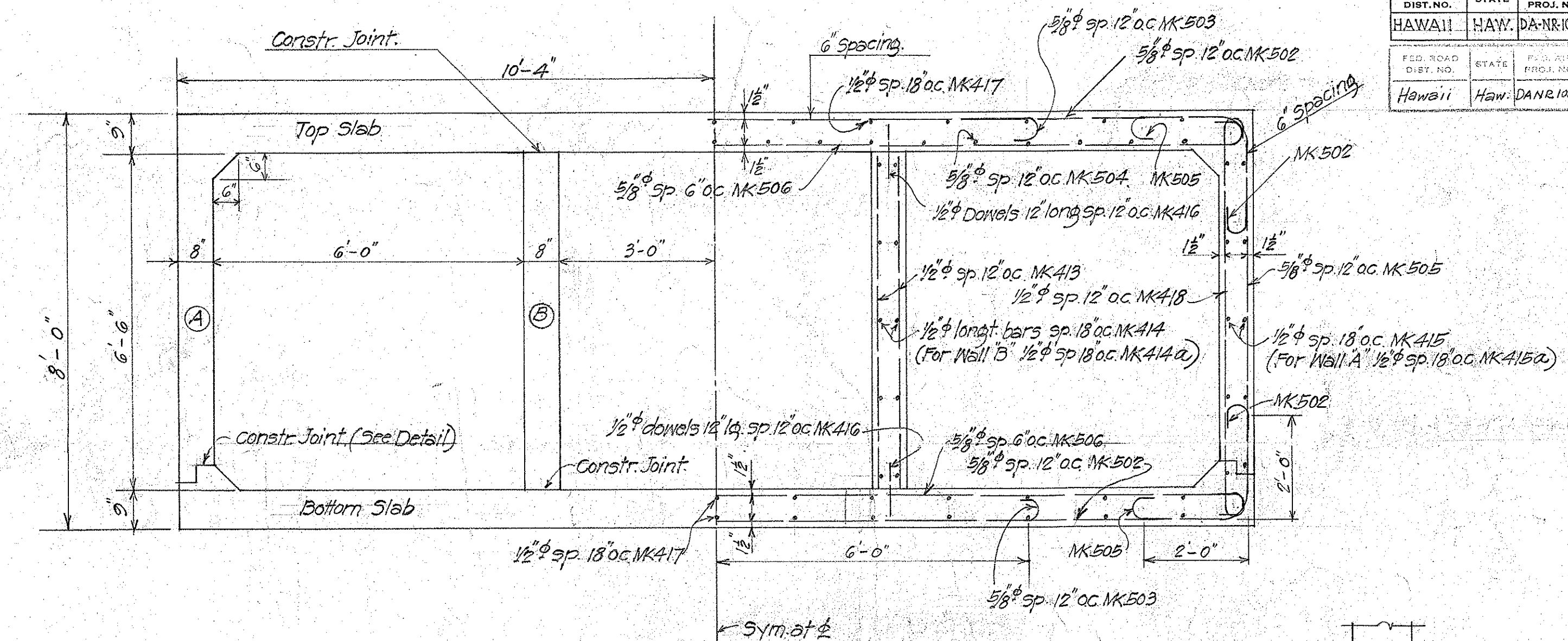


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DANR10B1	1943	13	17
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DANR10B1	1943	9	12

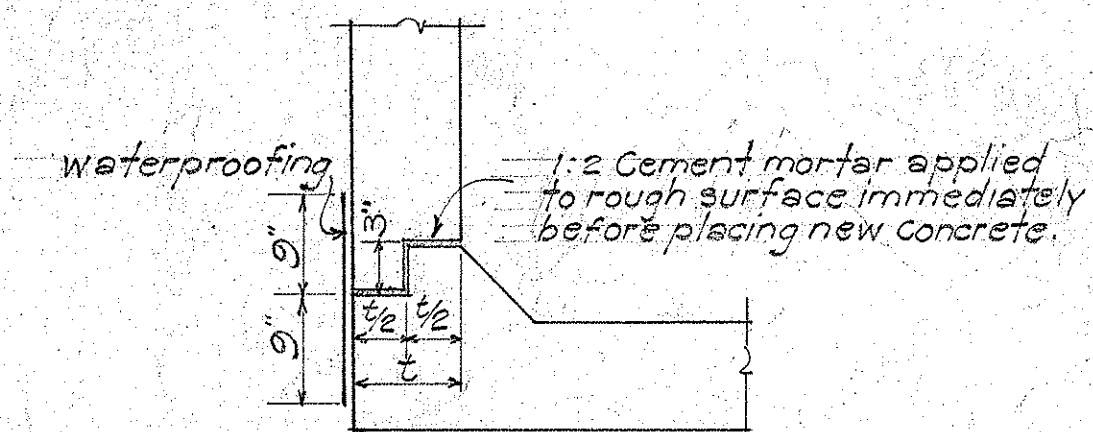


NORMAL SECTION OF TRUNK A-A

Scale 1/2" = 1'-0"

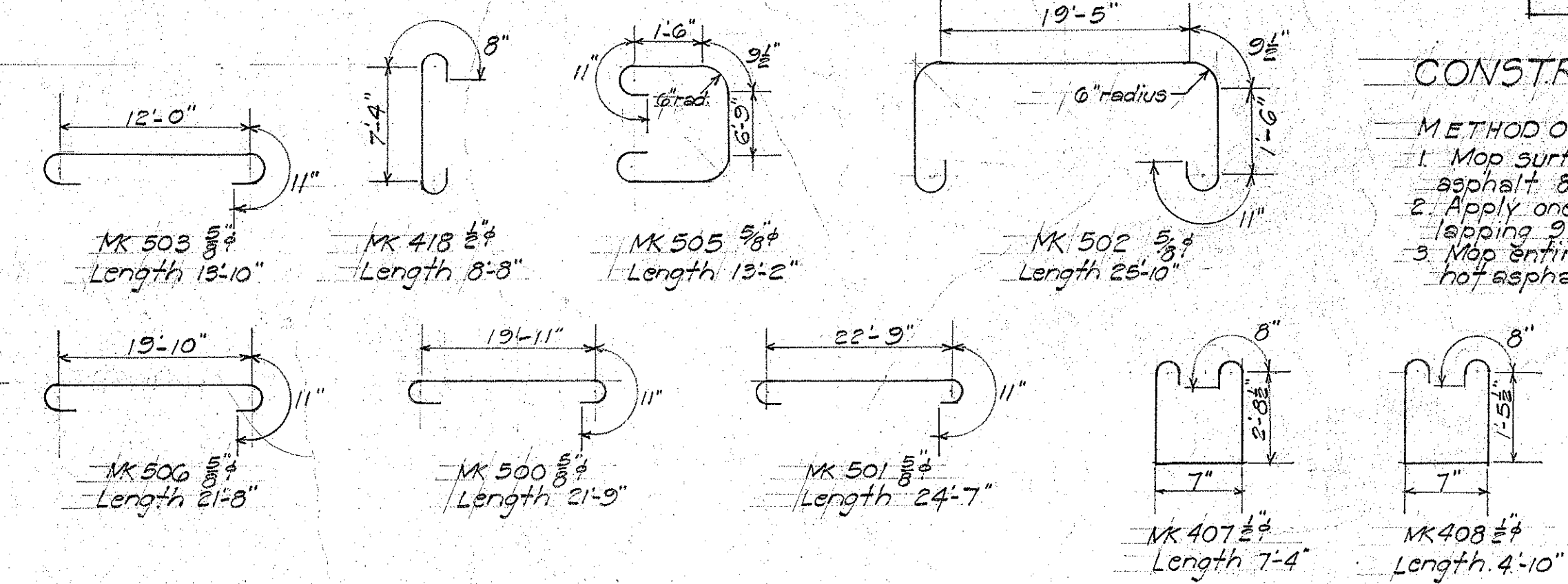
Design Load H-20
 $f_s = 22,000 \text{ #/sq. in.}$
 $f_c = 1,000 \text{ #/sq. in.}$

Note: All concrete to be Class A.
 Structure to have integral waterproofing,
 Tricoseal or equal. See special provisions.



CONSTRUCTION JOINT DETAIL

METHOD OF APPLYING WATERPROOFING:
 1. Map surface 12" either side of joint with asphalt. 85-100 penetration applied at 200°F.
 2. Apply one layer of poly roofing paper, lapsing 2" either side of joint, to hot asphalt.
 3. Map entire surface with a thick coat of hot asphalt.



ITEM	QUANTITIES
Class A Conc.	200.00 Cu. Yds.
Reinf. Steel	25,482 lbs.
Structural Exc.	234 Cu. Yds.
Hand Placed Rock Fill	20.00 Cu. Yds.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII

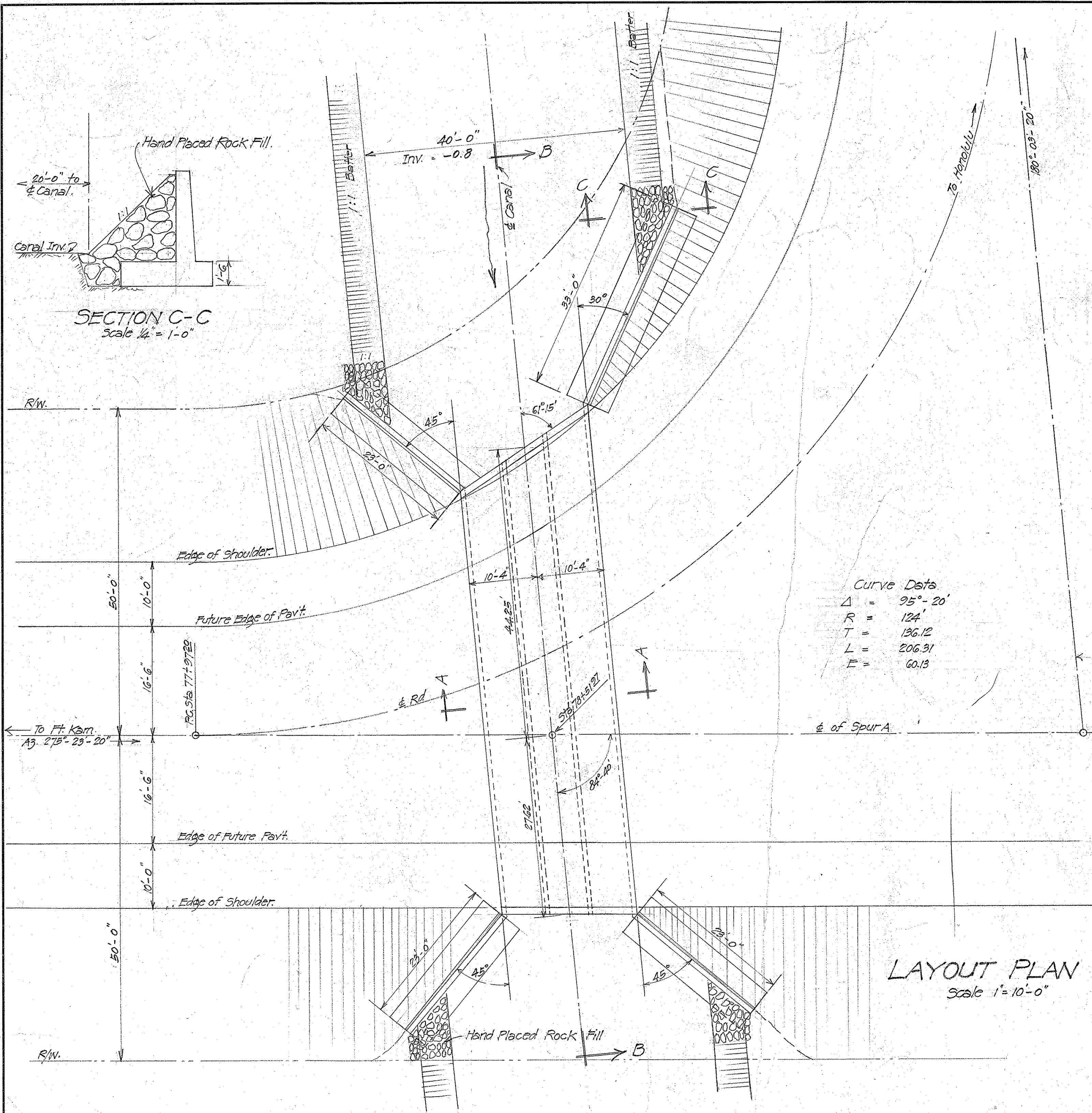
BOX CULVERT

Sta. 78+51.97

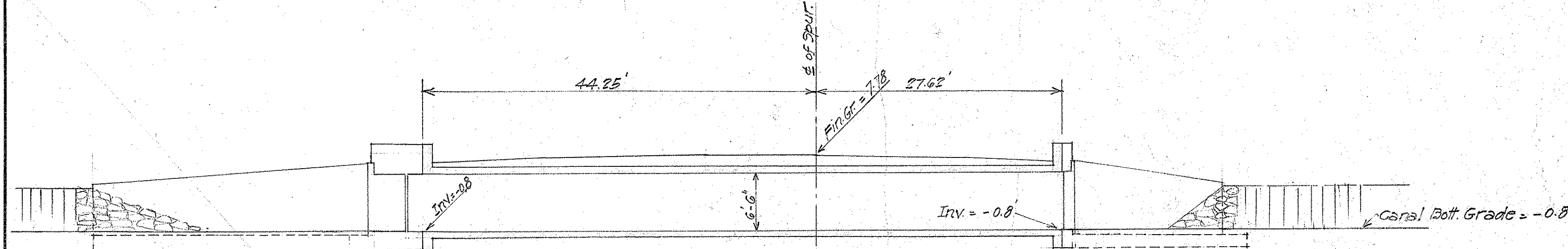
JOHN RODGER KEEHI LAGOON - DANR 10B1
 ACCESS ROAD

November, 1943

SHEET No. 1 OF 3 SHEETS



LAYOUT PLAN
 Scale 1" = 10'-0"



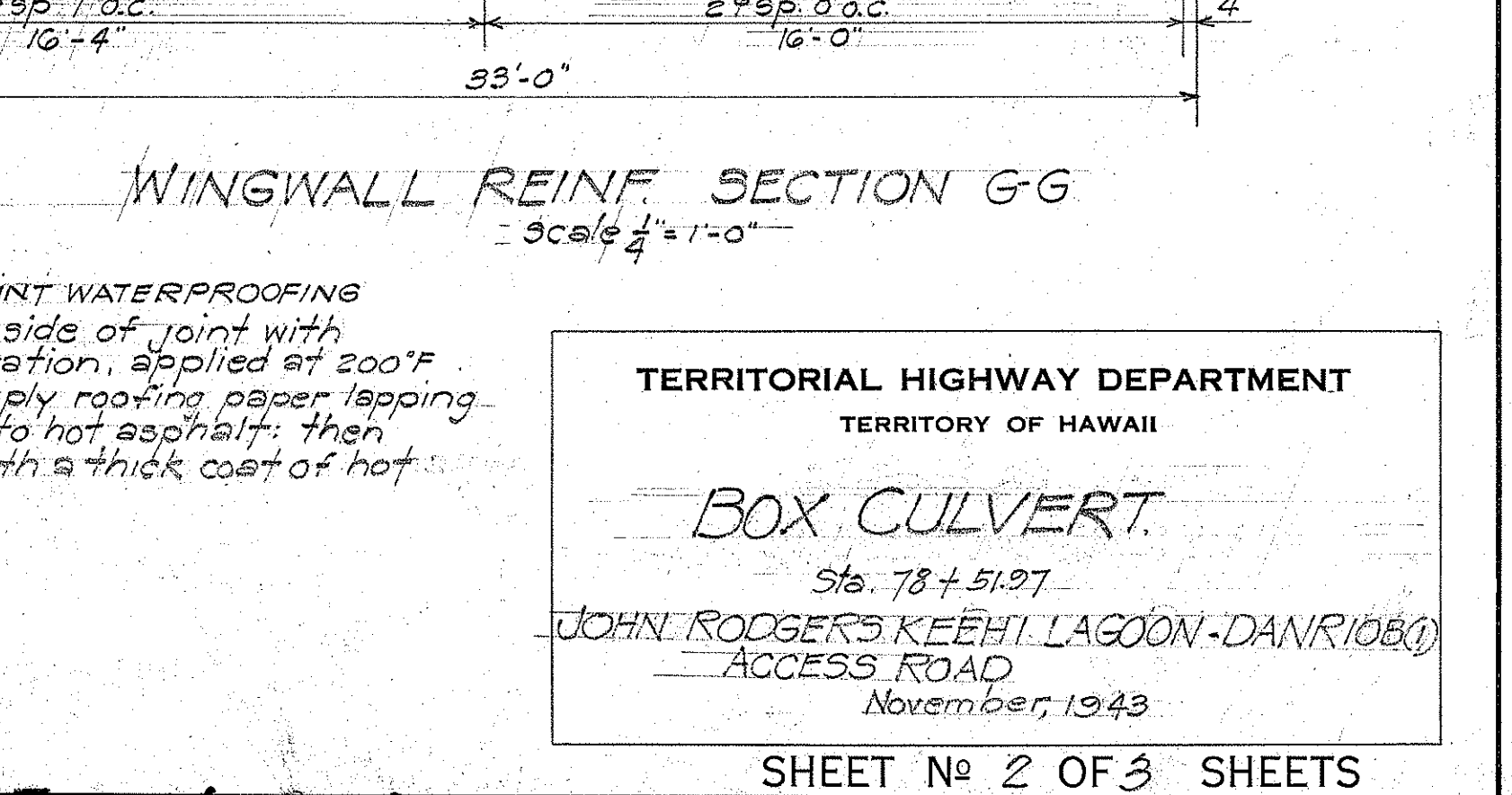
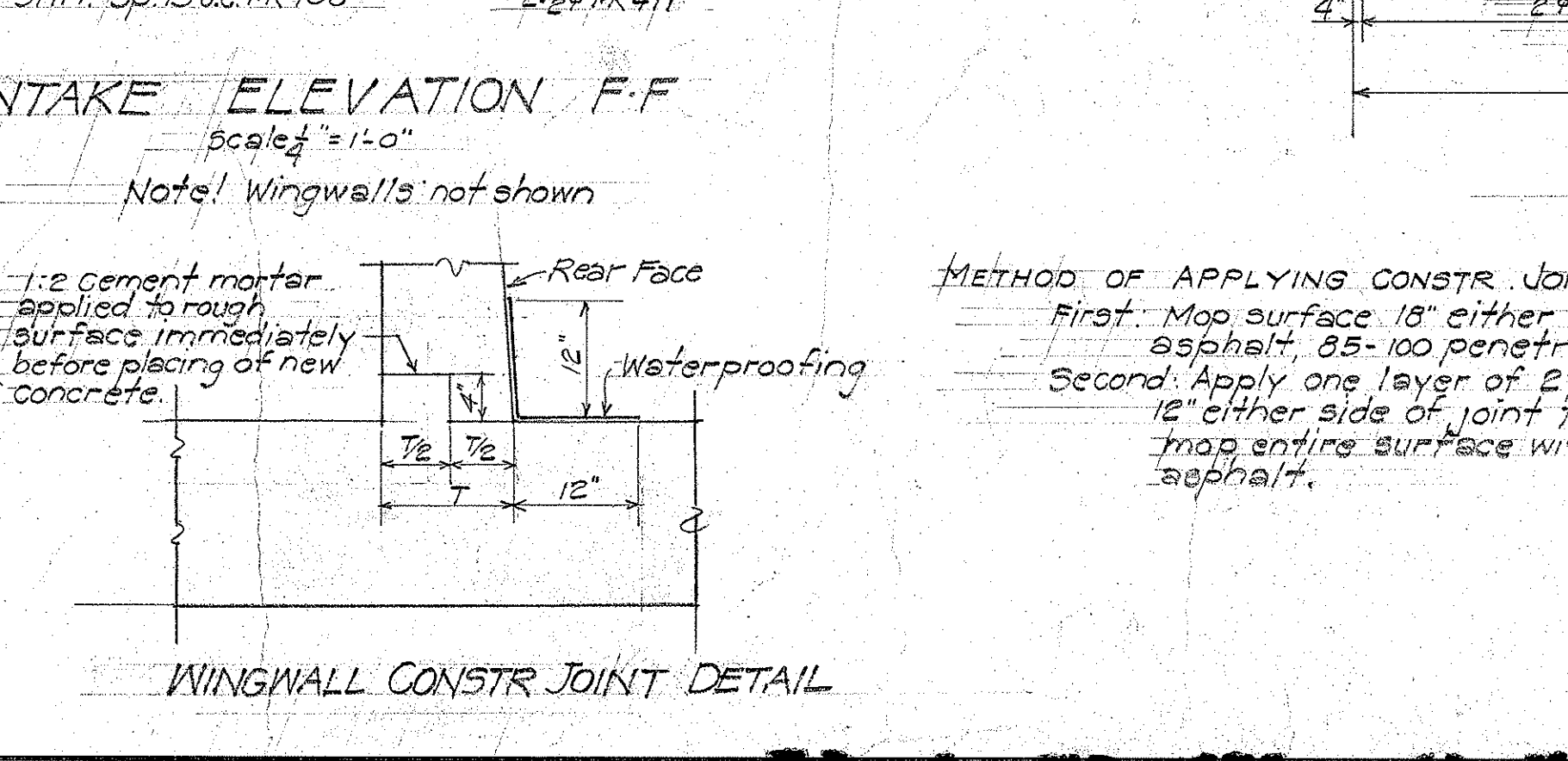
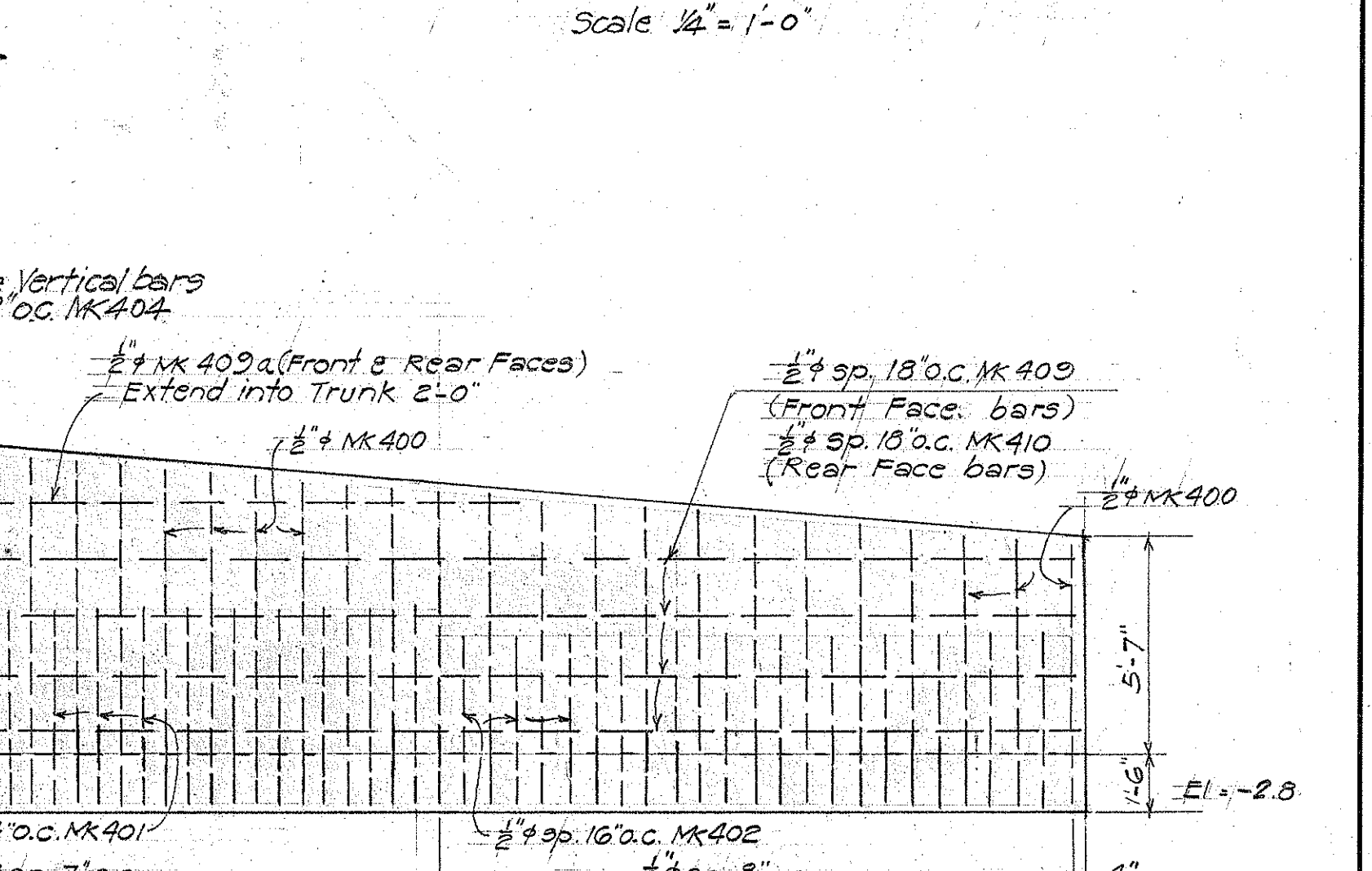
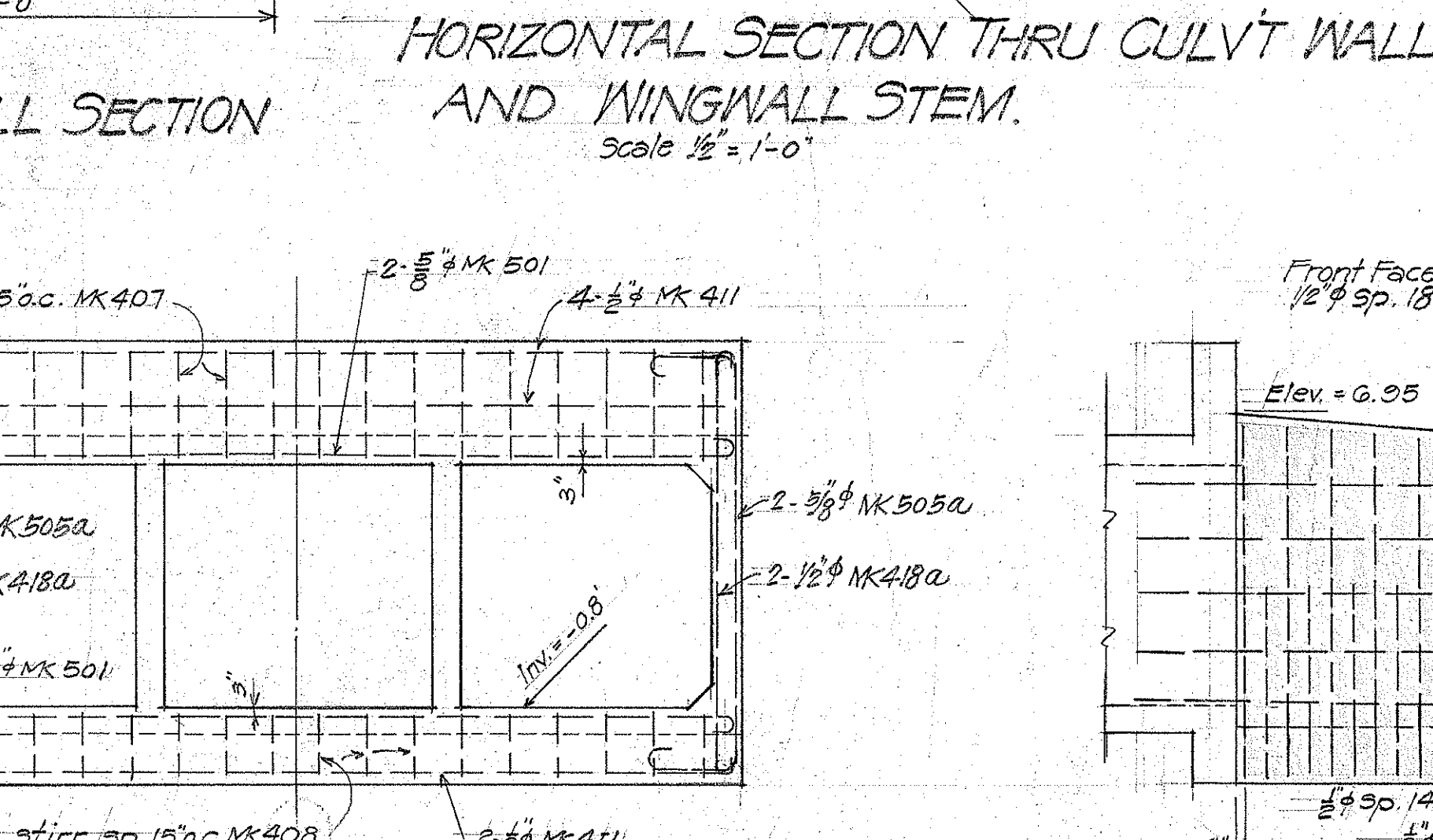
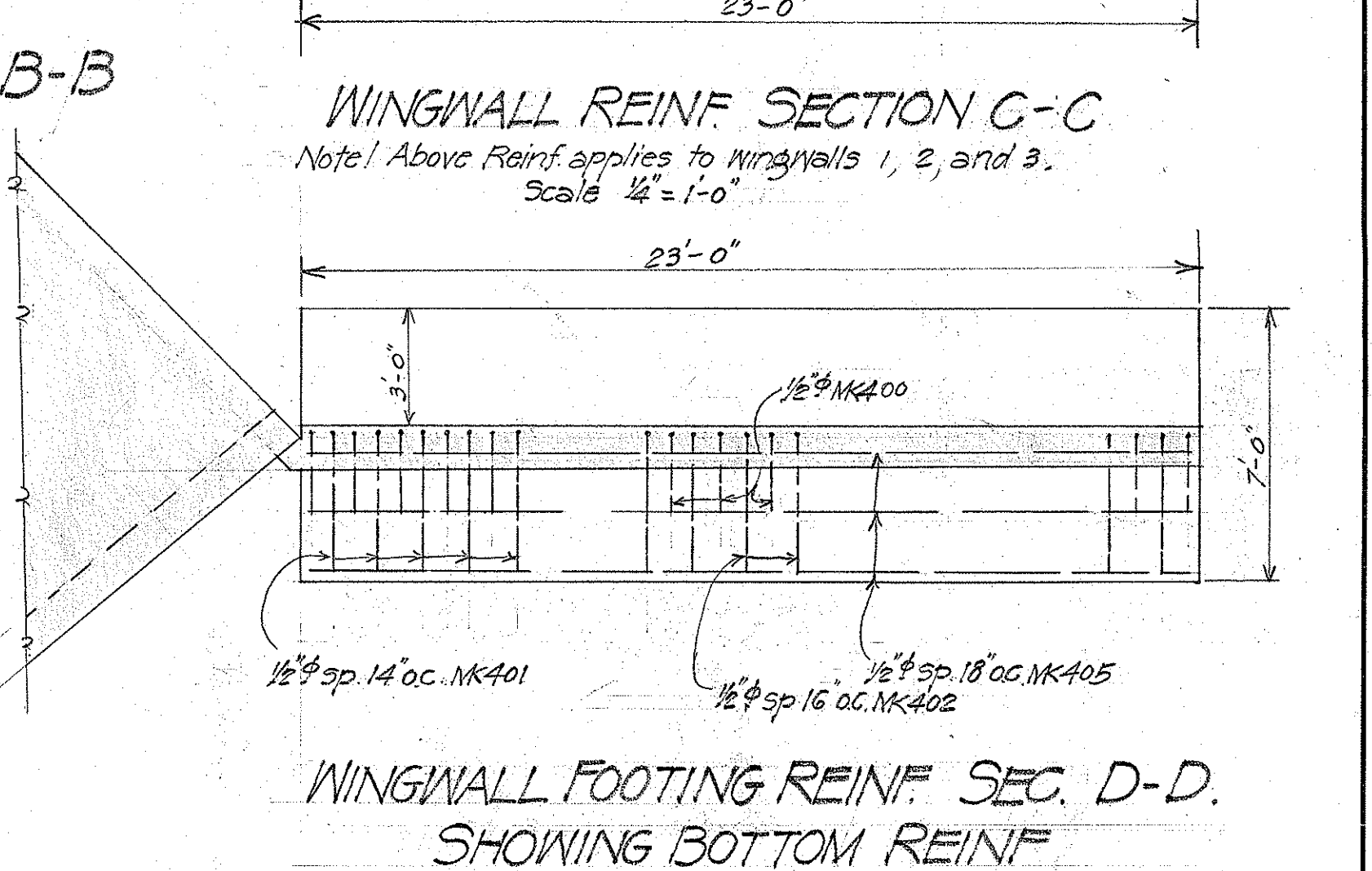
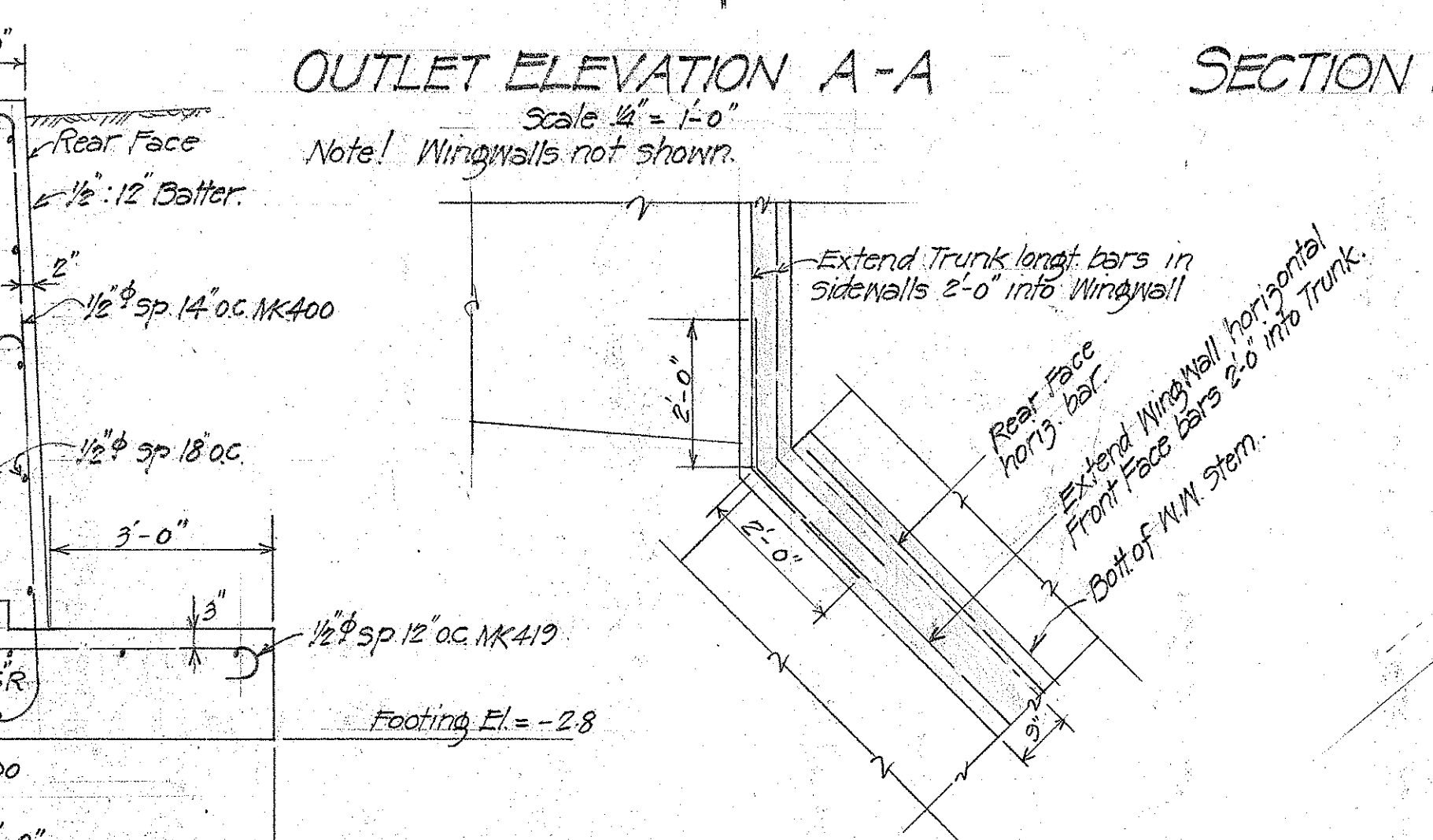
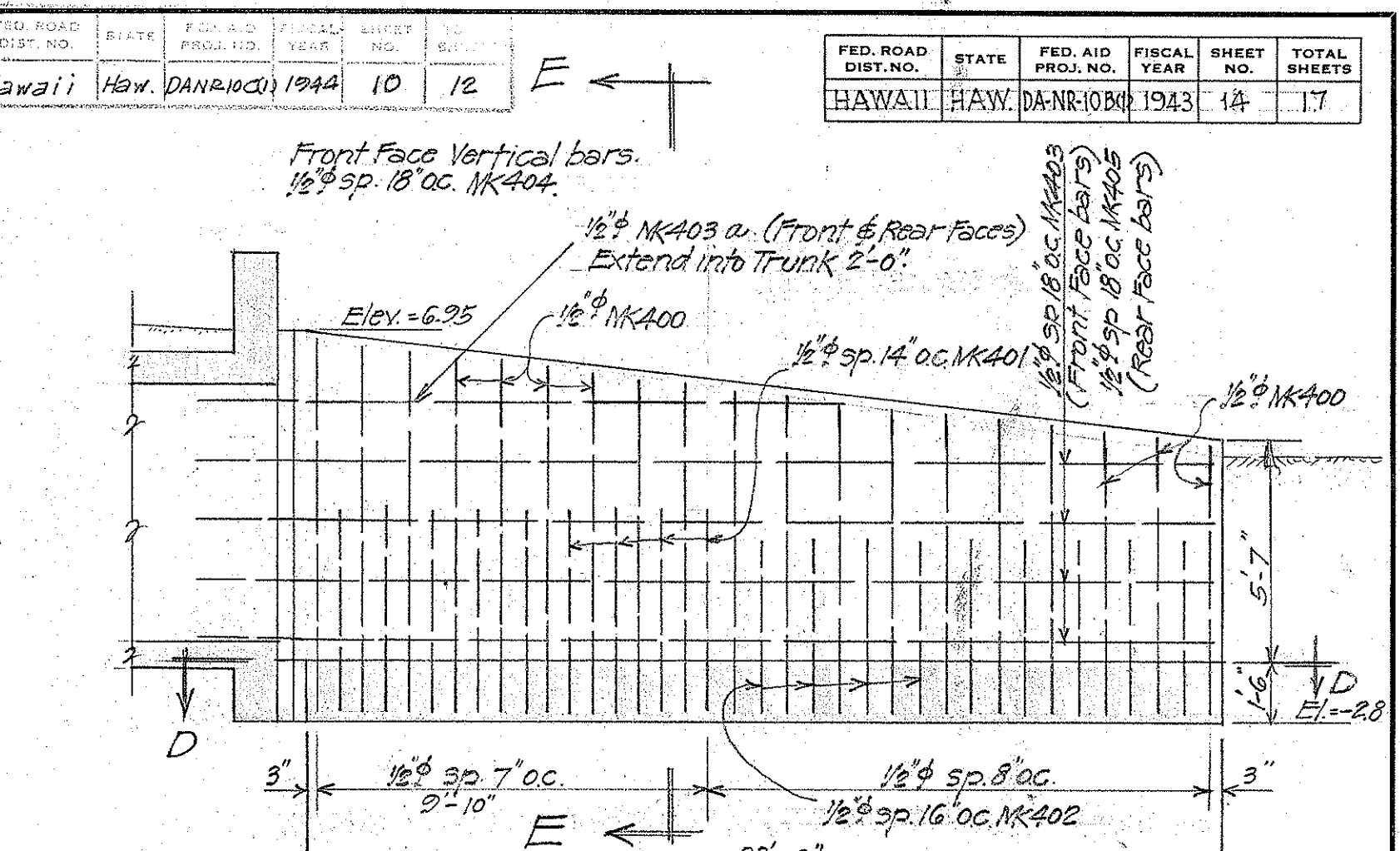
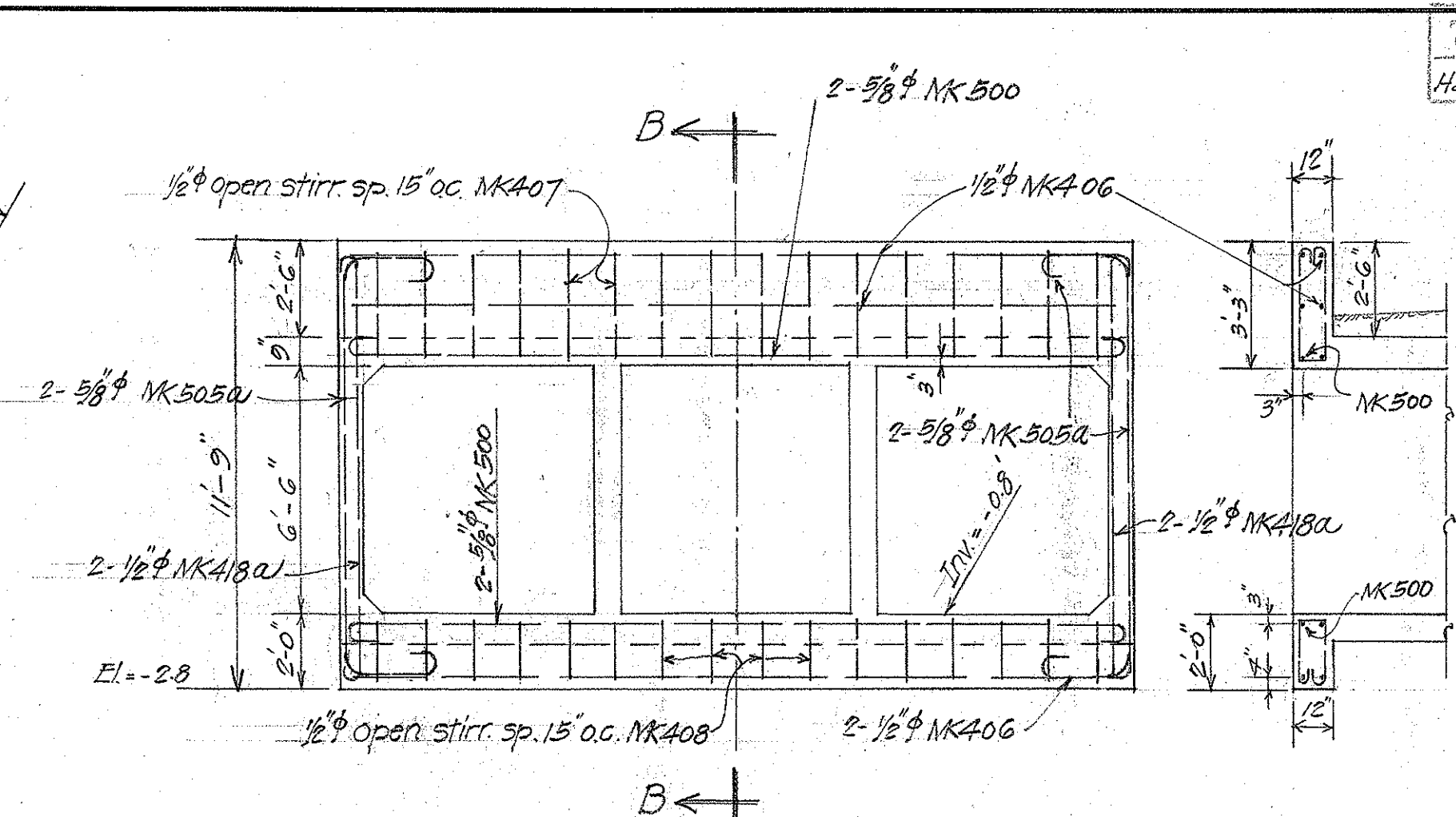
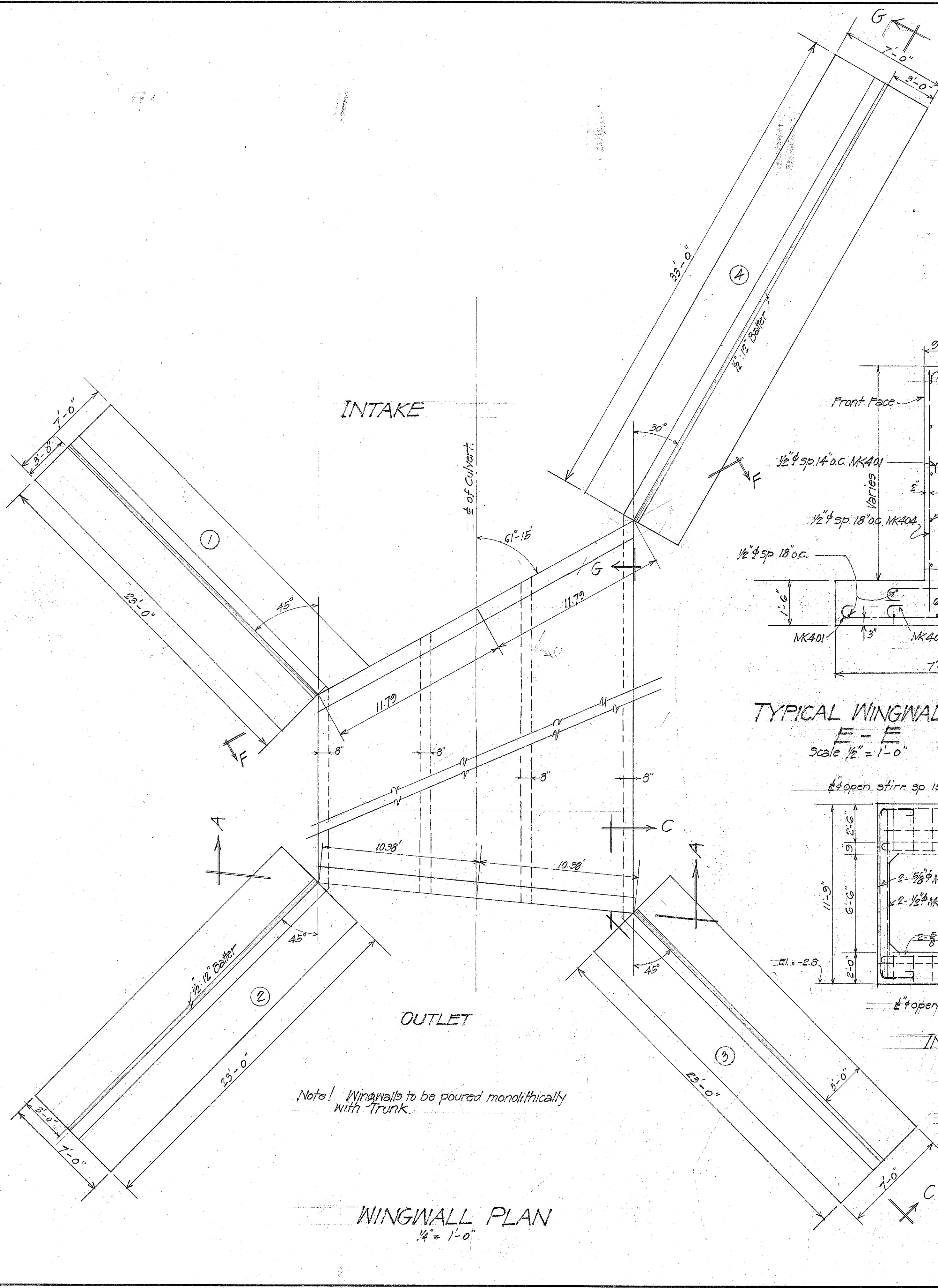
SECTION B-B
 Scale 1" = 1'-0"

Note: All elevations based on MLLW Datum.

ORIGINAL PLAN	DATE
DESIGNED BY	11/1/43
DRAWN BY	11/1/43
CHECKED BY	11/1/43
NOTED BY	11/1/43
QUANTITIES CHECKED BY	11/1/43
CHECKED BY	11/1/43

PART OF 5118. 5127.13

FED. ROAD DIST. NO.	STATE	PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DANR1080	1943	10	17



METHOD OF APPLYING CONSTR. JOINT WATERPROOFING

First: Map surface 18" either side of joint with asphalt, 85-100 penetration, applied at 200°F

Second: Apply one layer of 2-ply roofing paper lapping 12" either side of joint to hot asphalt; then map entire surface with a thick coat of hot asphalt.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BOX CULVERT.
Sta. 78+51.97
JOHN RODGERS KEEHI LAGOON - DANR1080
ACCESS ROAD
November, 1943

SHEET No 2 OF 3 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY <i>W. C. Bartels</i>	DATE <i>Nov. 1953</i>
	DESIGNED BY <i>W. C. Bartels</i>	" " " "
	DRAWN BY <i>P. Vanabala</i>	" " " "
	TRACED BY	" " " "
NOTE BOOK	QUANTITIES BY <i>P. Vanabala</i>	" " " "
	QUANTITIES CHECKED BY <i>P. V.</i>	" " " "
No.	CHECKED BY <i>W. C.</i>	" " " "

