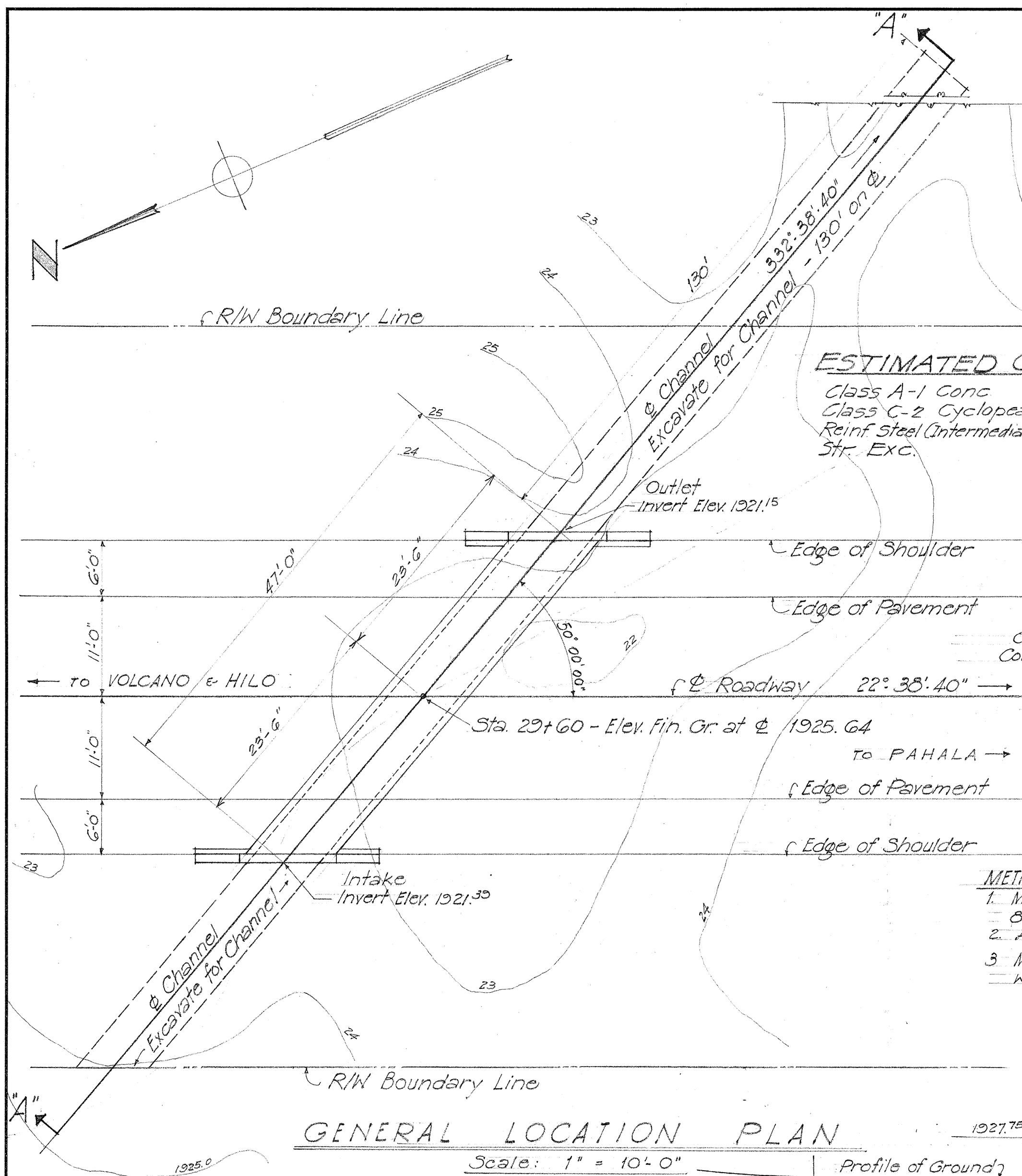
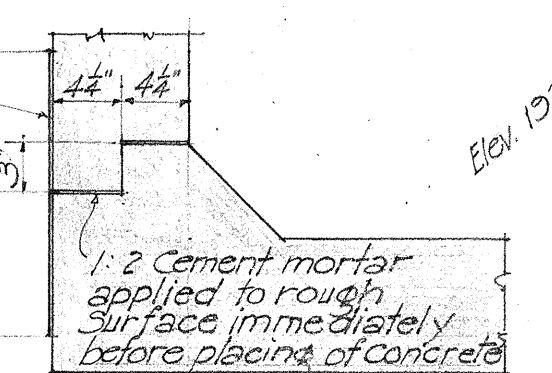




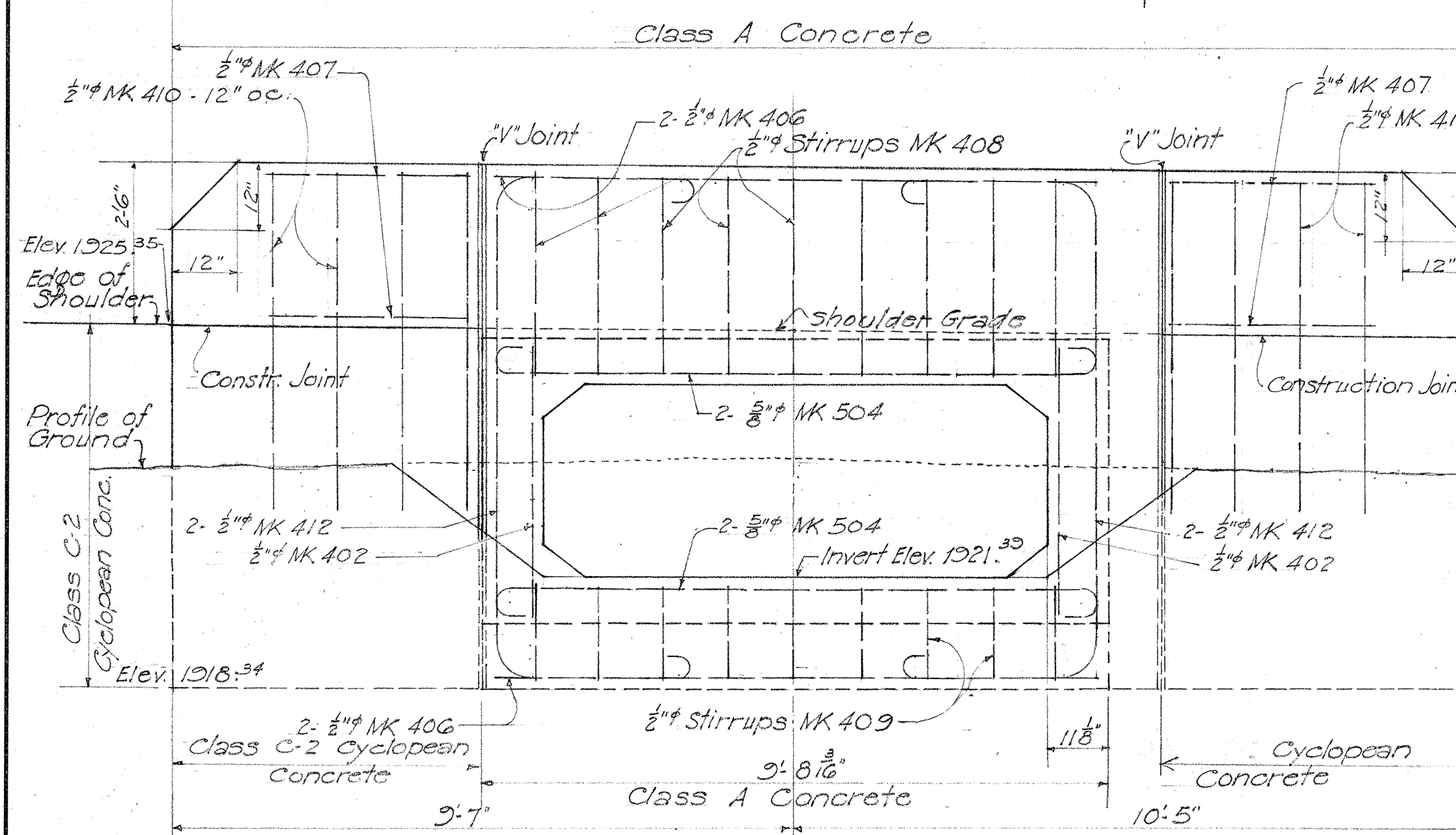
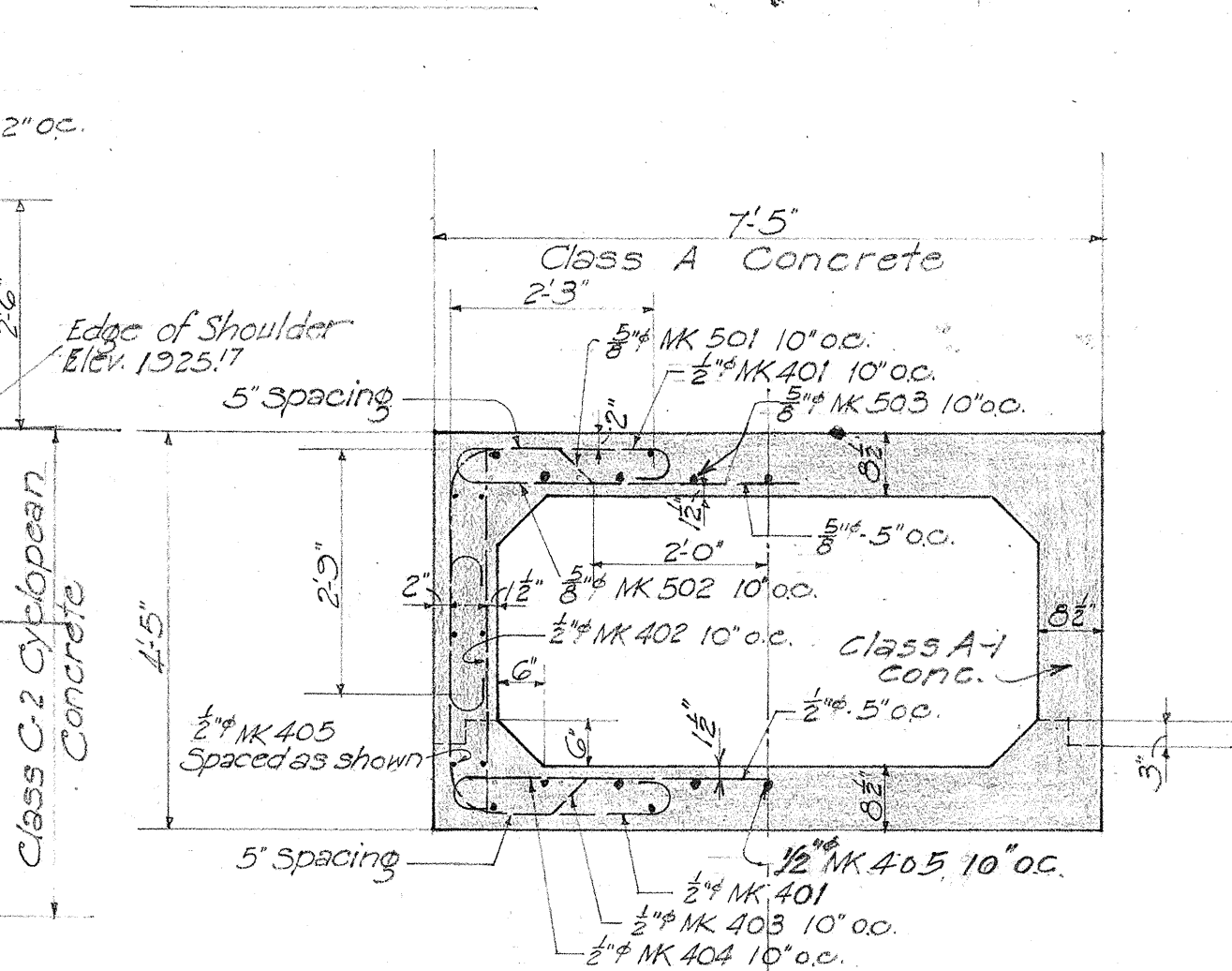
ESTIMATED QUANTITIES
 Class A-1 Conc. 31.55 CY
 Class C-2 Cyclopean Conc. 8.9 CY
 Reinf. Steel (Intermediate Grade) 4,860 lbs
 Str. Exc. 75.0 CY

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

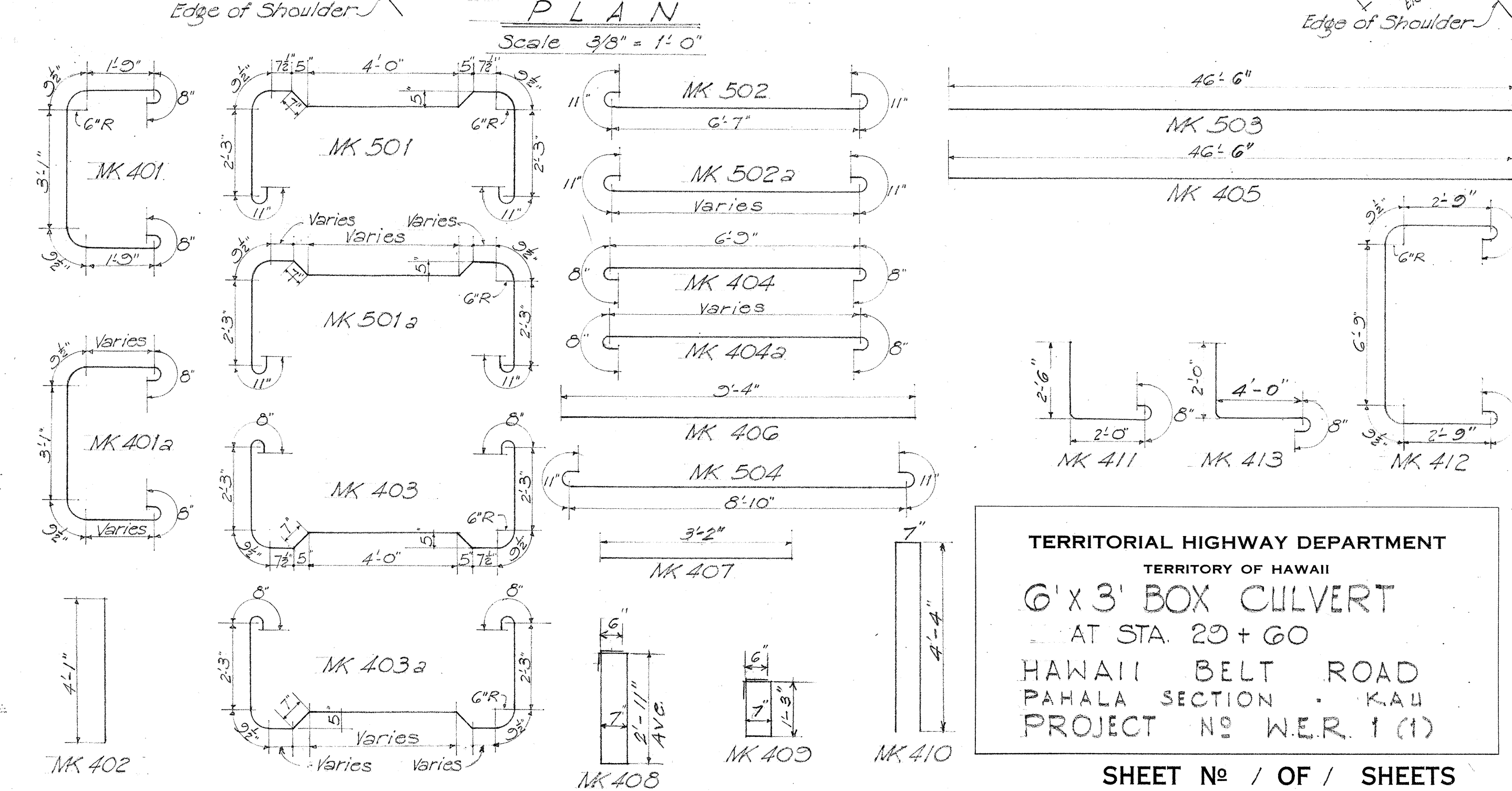
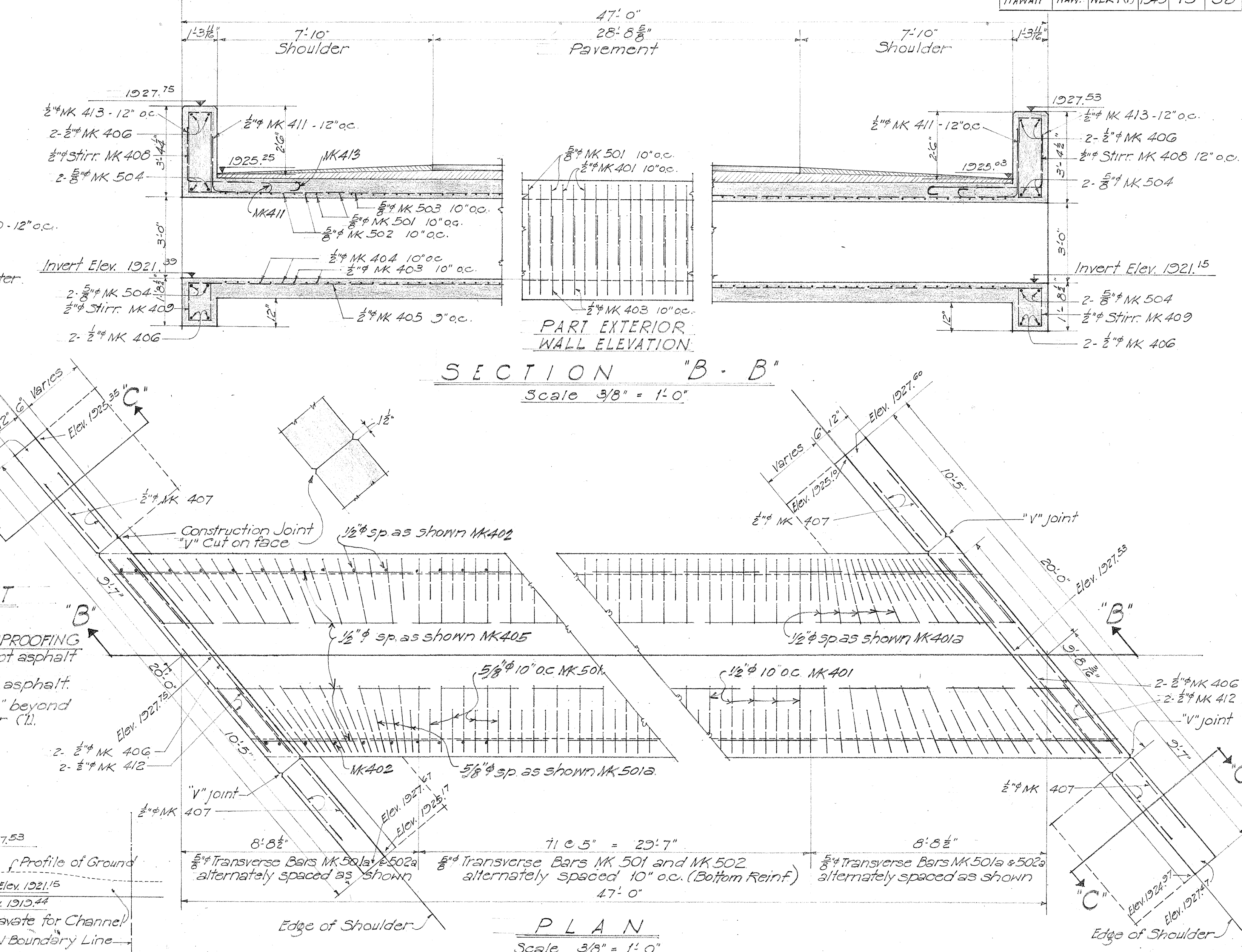


- METHOD OF APPLYING CONSTRUCTION JOINT WATERPROOFING**
1. Map surface either side of joint as required with hot asphalt - 85-100 penetration applied at 200°F.
 2. Apply one layer of 55# Composition Roofing to hot asphalt.
 3. Map entire surface of composition roofing and 3" beyond with a thick coat of asphalt as specified under (1).

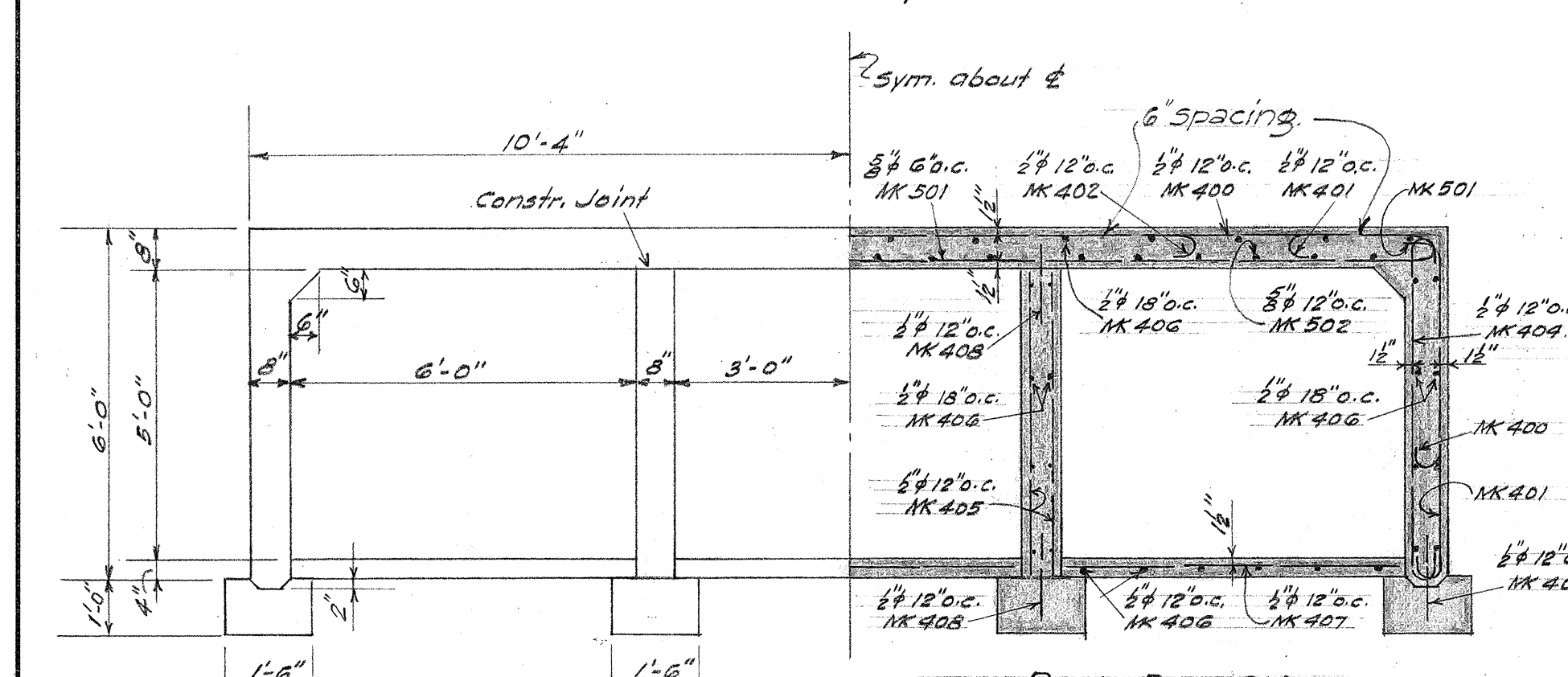
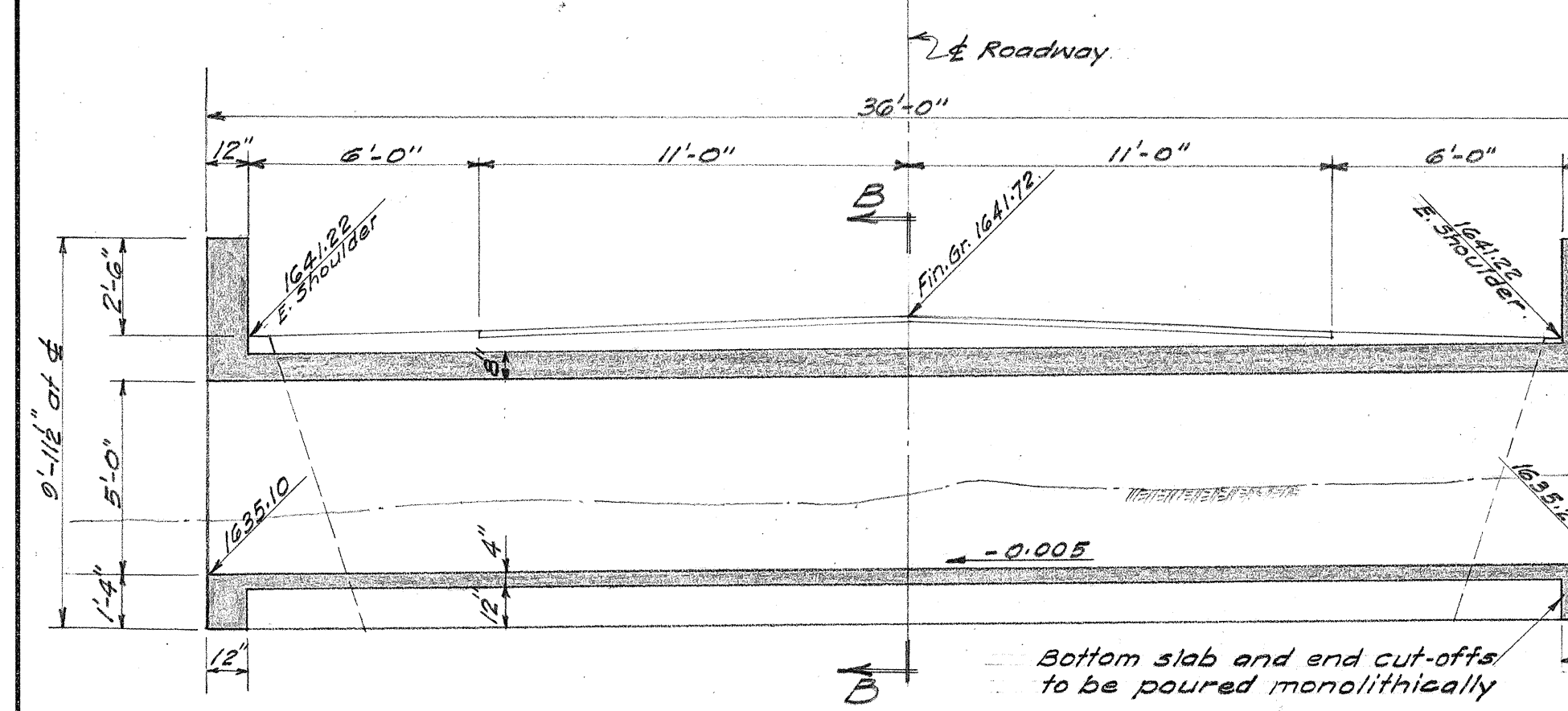
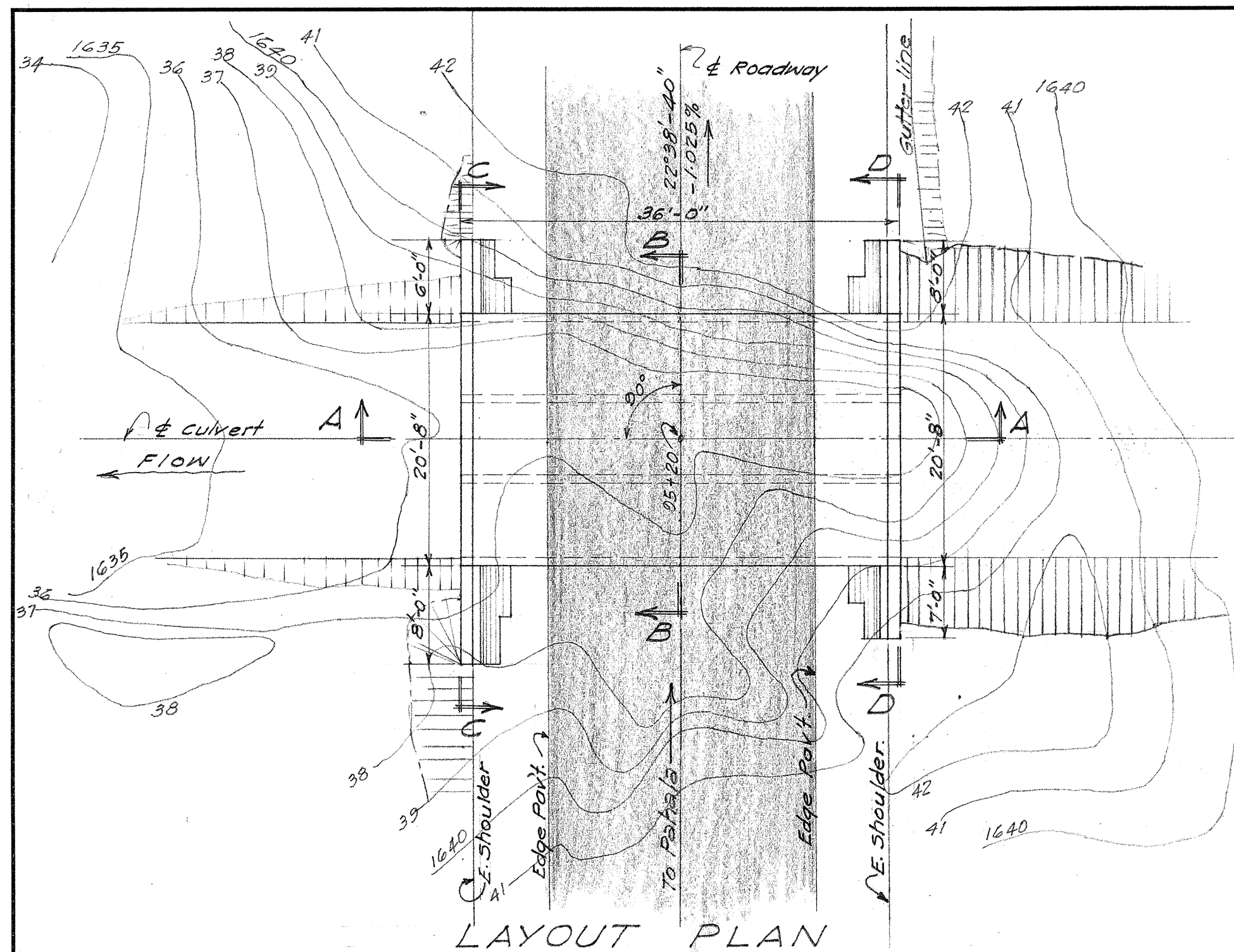
SECTION "A-A"
Scale: 1" = 10'-0"



NOTE: STEEL ARRANGEMENT AT OUTLET SIMILAR

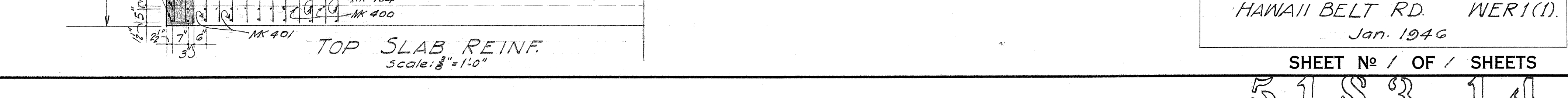
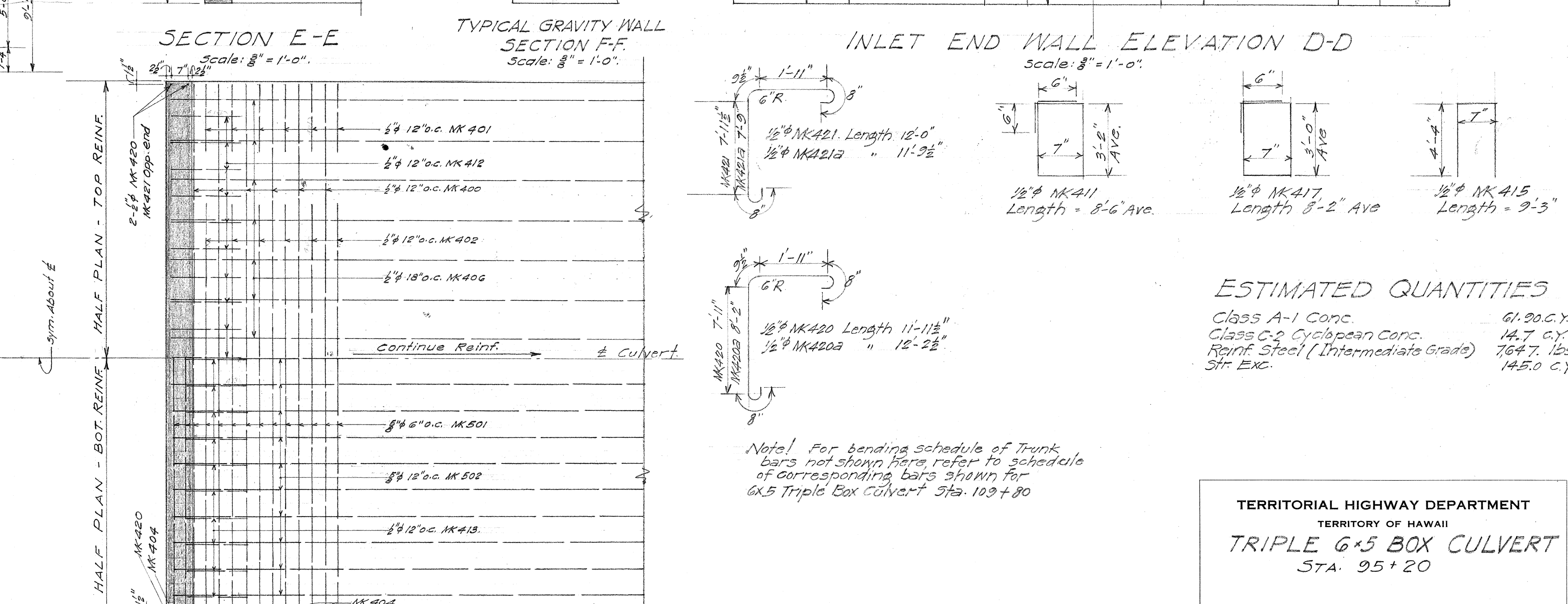
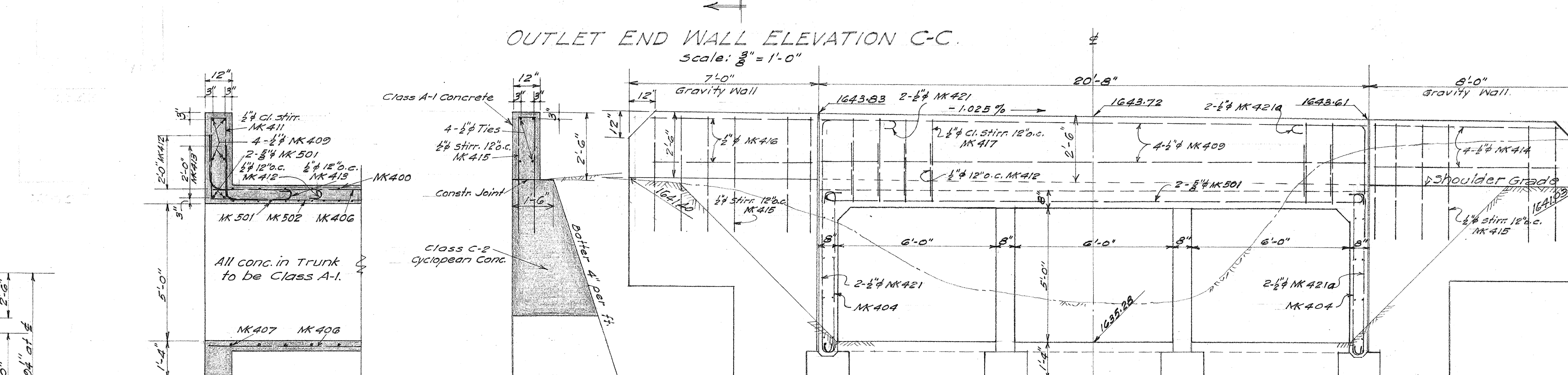
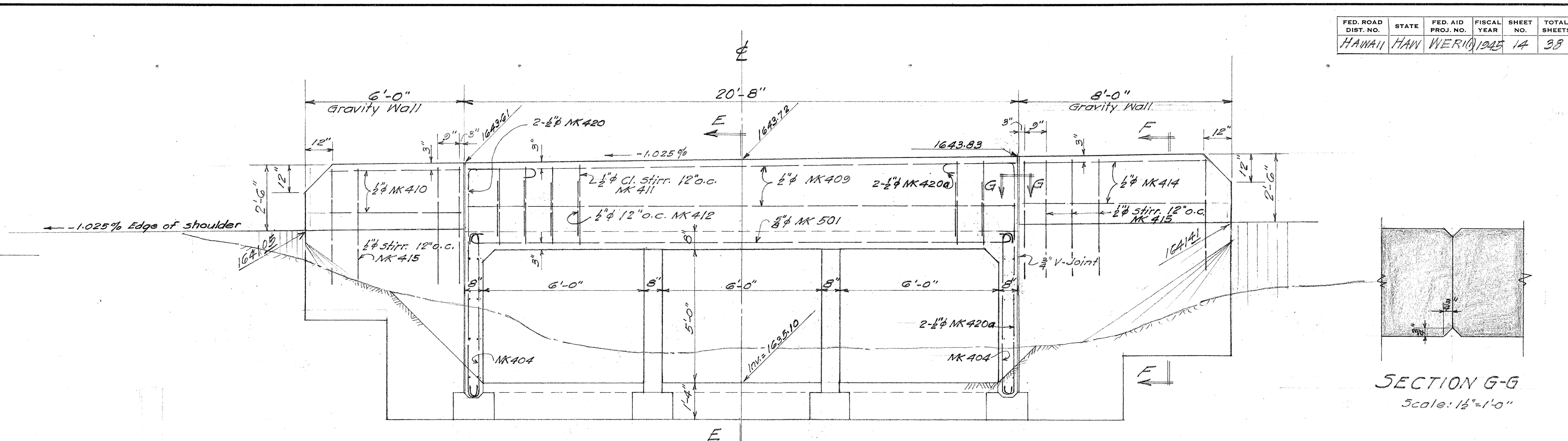


TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
6'x3' BOX CULVERT
 AT STA. 23+60
 HAWAII BELT ROAD
 PAHALA SECTION - KAU
 PROJECT NO. W.E.R. 1(1)



Sequence of pours: 1-Footings, 2-Interior Walls, 3-Bottom Slabs, 4-Outside Walls and Top Slab.

NOTE: Excavate footings to neat lines. Overcuts must be filled with concrete at contractor's expense. Outside Walls and Top Slab to be poured monolithically.



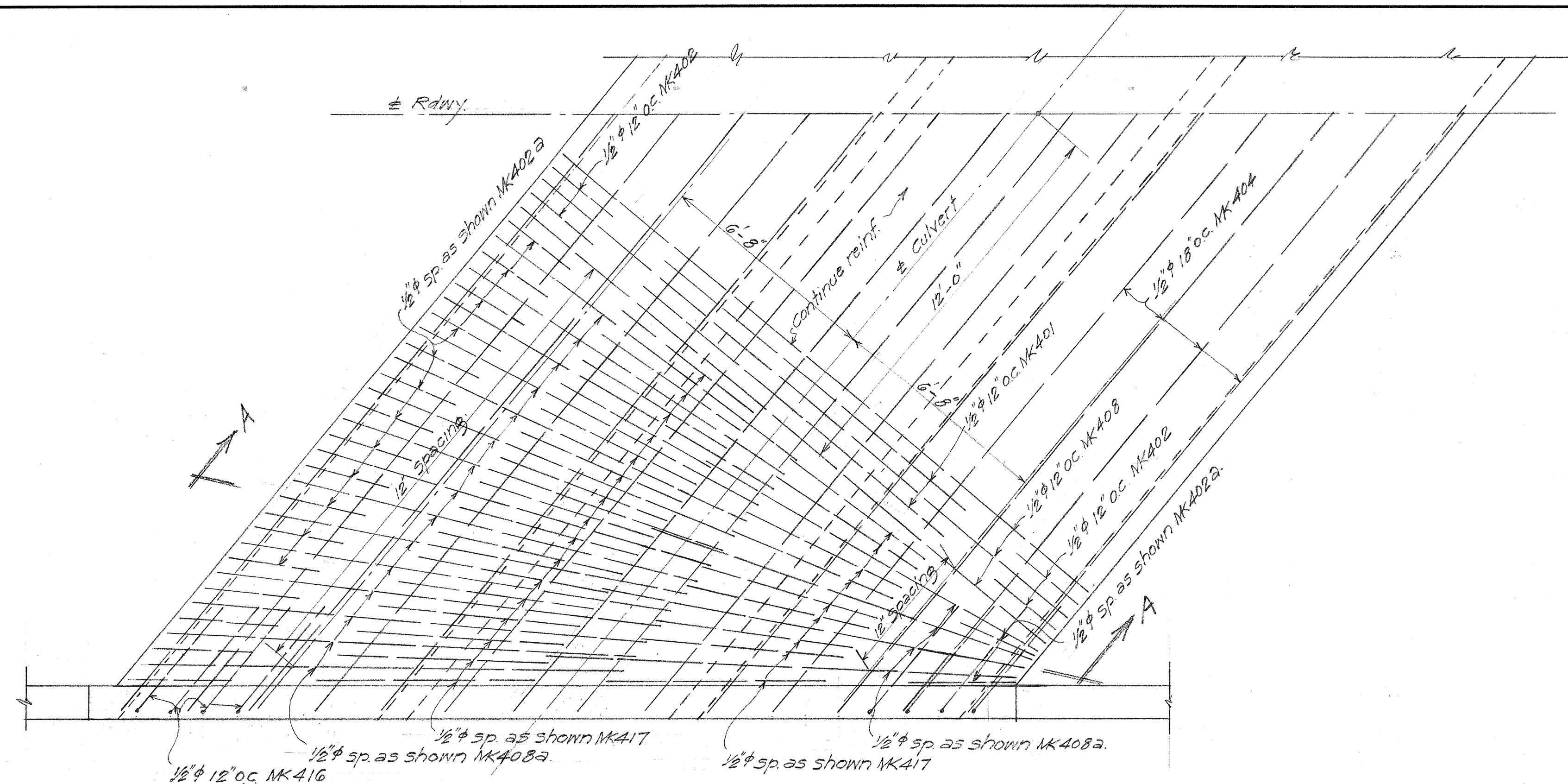
ESTIMATED QUANTITIES

Class A-1 Conc.	61.20 C.Y.
Class C-2 Cyclopean Conc.	14.7 C.Y.
Reinf. Steel (Intermediate Grade)	7647 lbs.
Str. Exc.	145.0 C.Y.

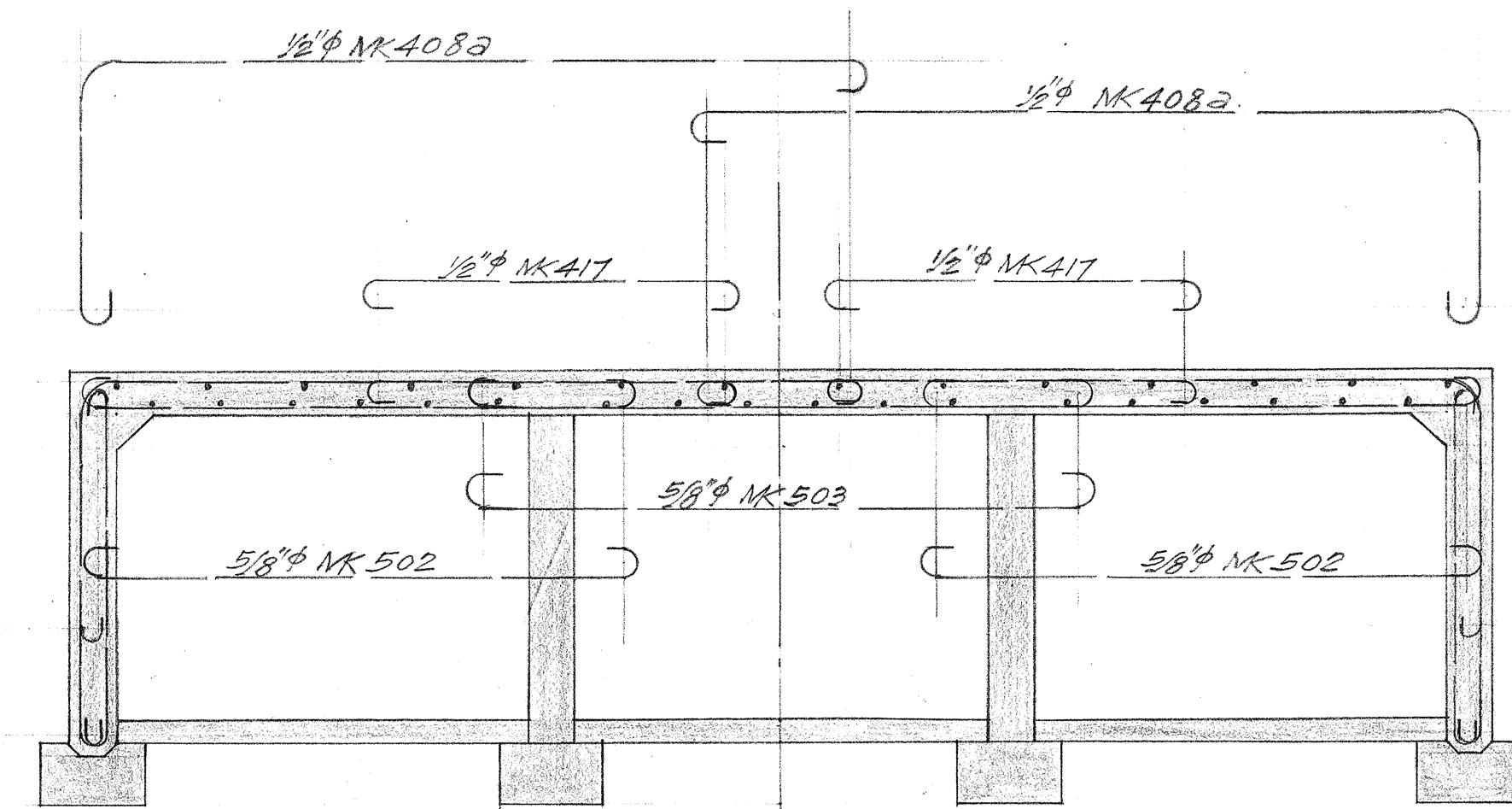
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
TRIPLE 6x5 BOX CULVERT
STA. 95+20
HAWAII BELT RD. WER1(1).
Jan. 1946

DATE: 1/15/46
DESIGNED BY: H. S. HARRIS
DRAWN BY: J. S. HARRIS
CHECKED BY: J. S. HARRIS
ORIGINAL PLAN NO. 1007 K&C, N.Y.

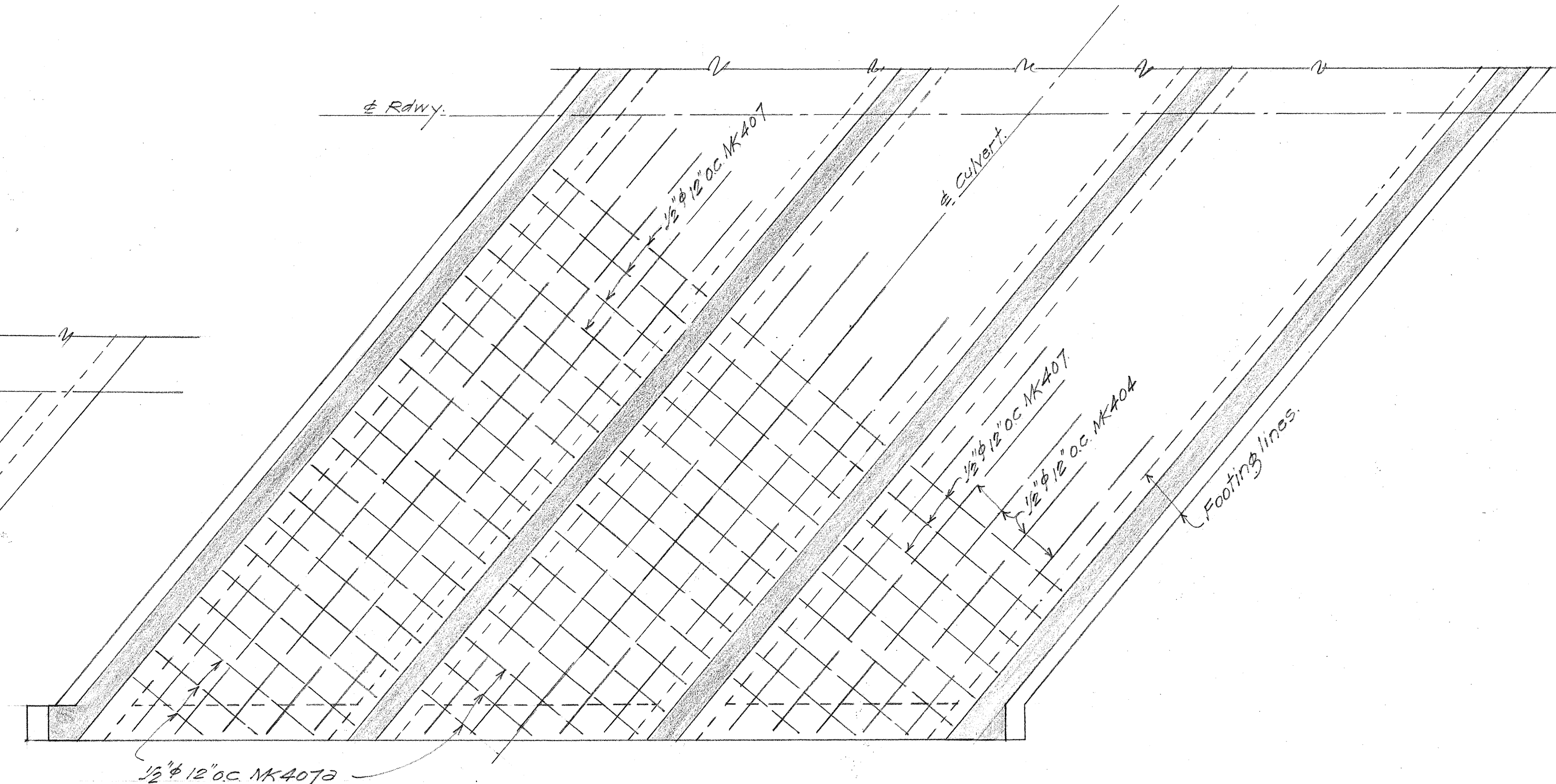
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	WER 1(1)	1945	16	38



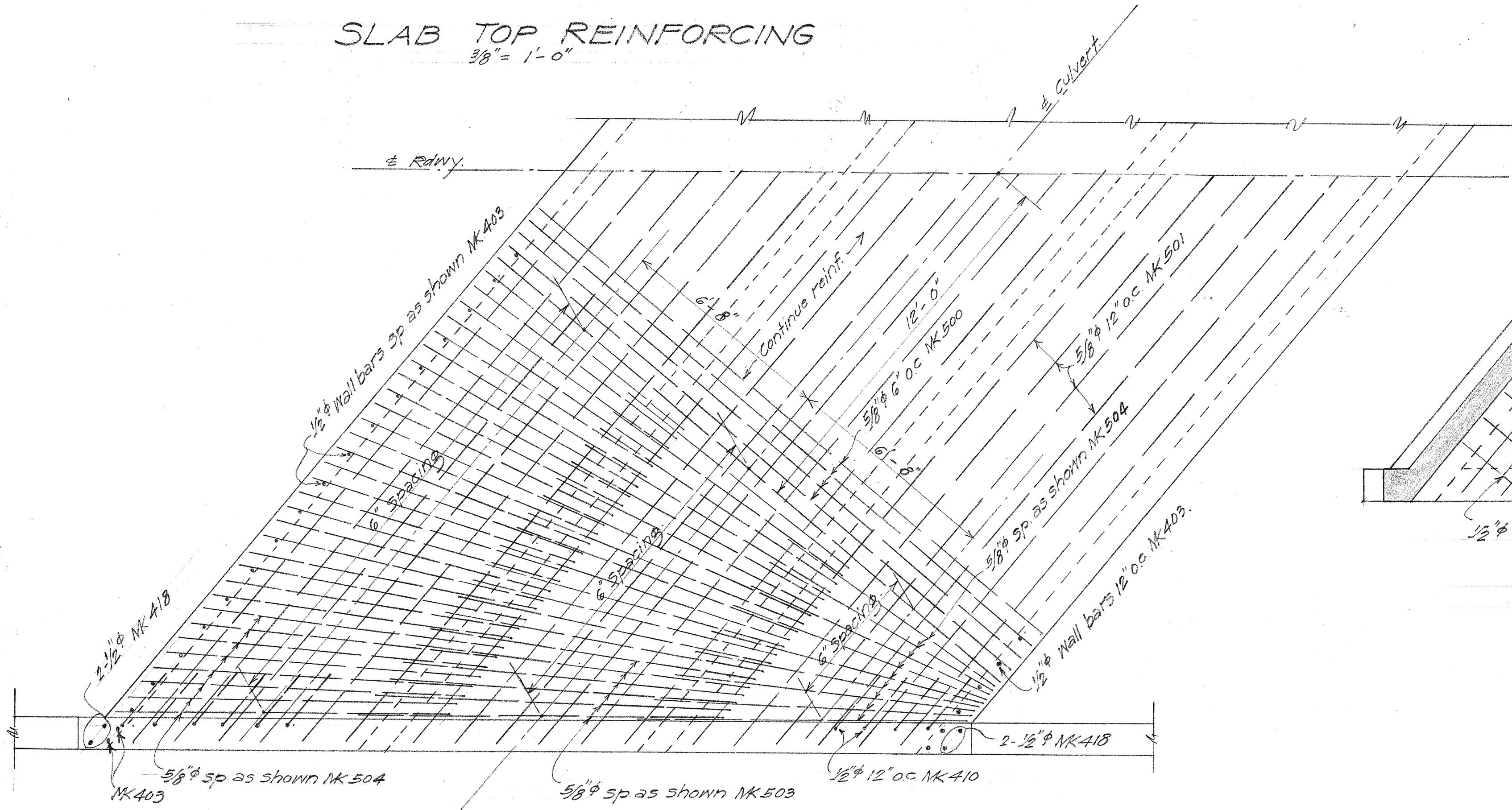
SLAB TOP REINFORCING
3/8" = 1'-0"



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



FLOOR SLAB REINFORCING
3/8" = 1'-0"

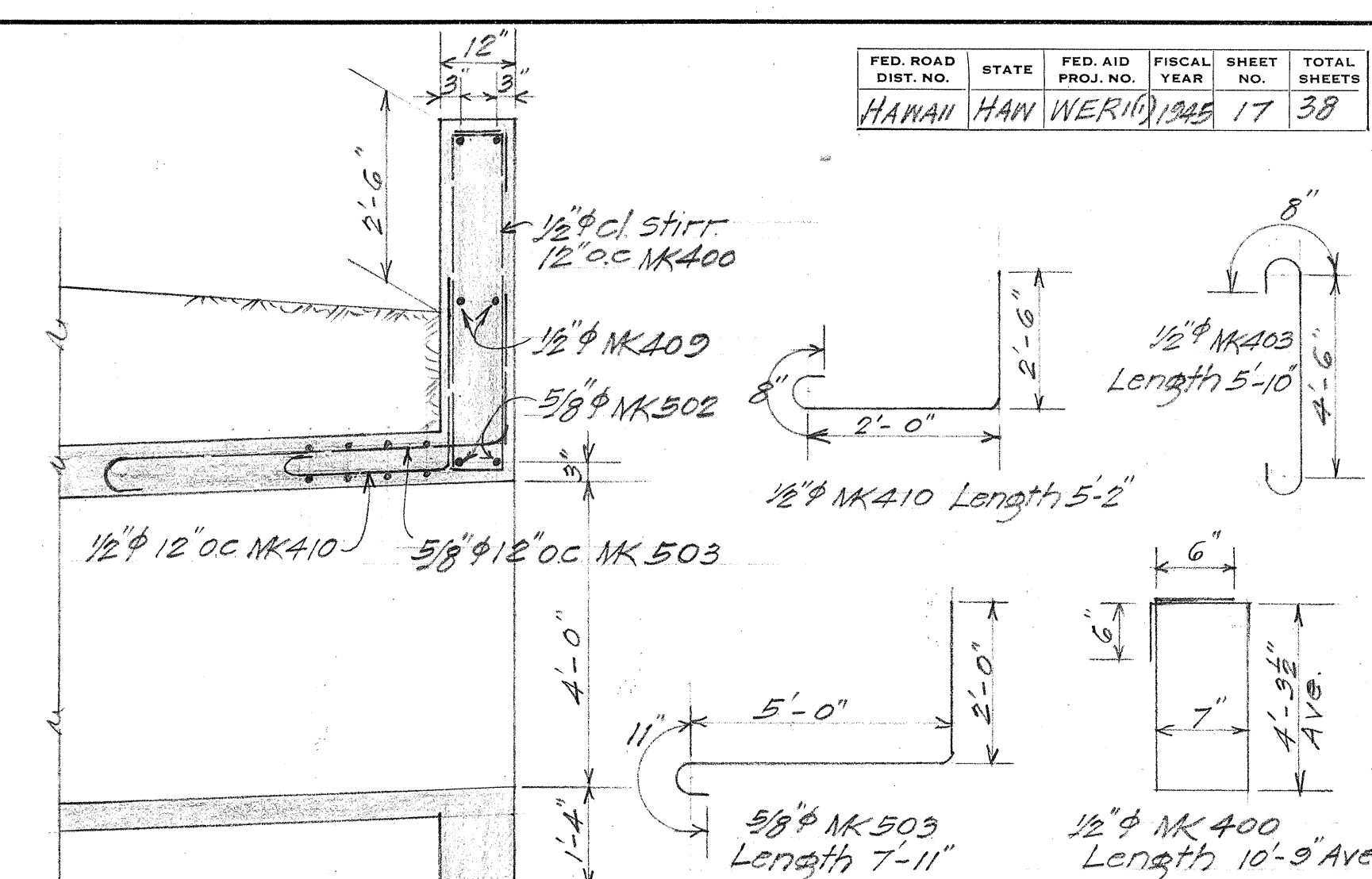
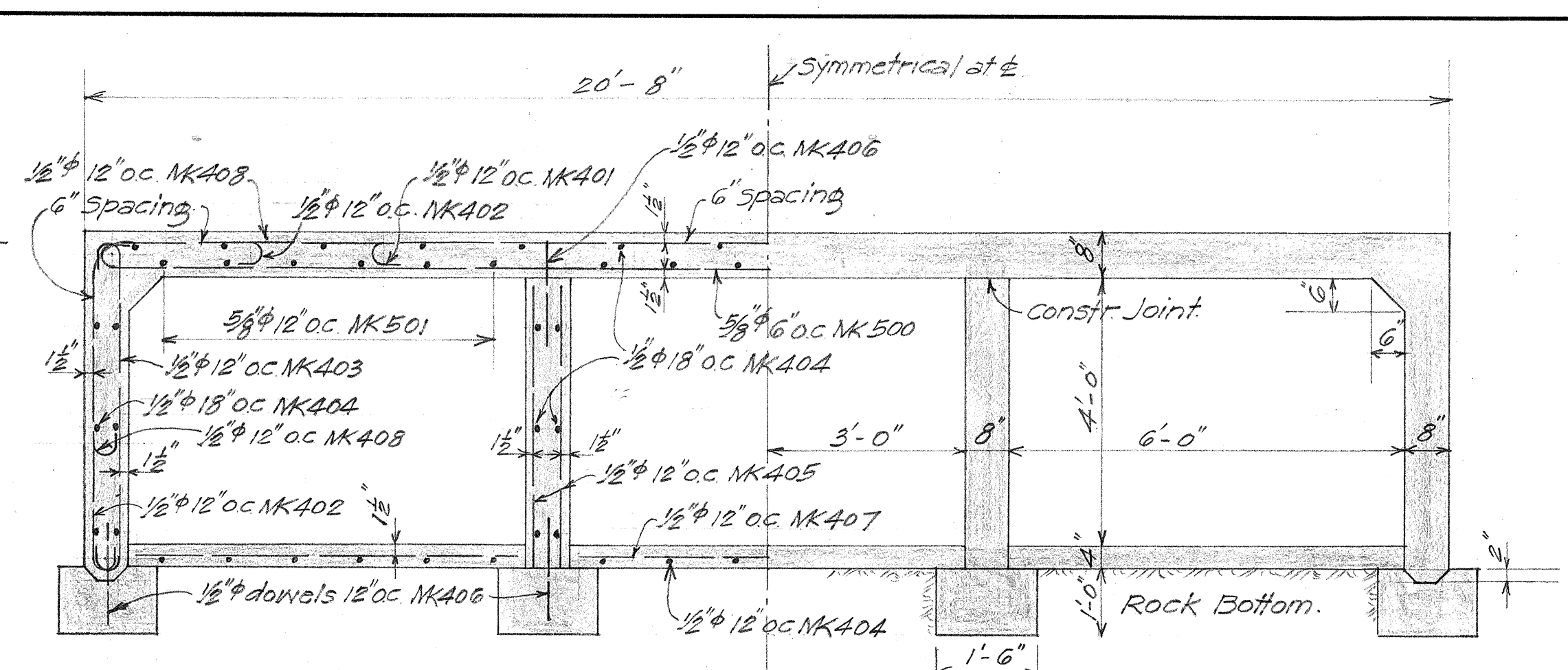
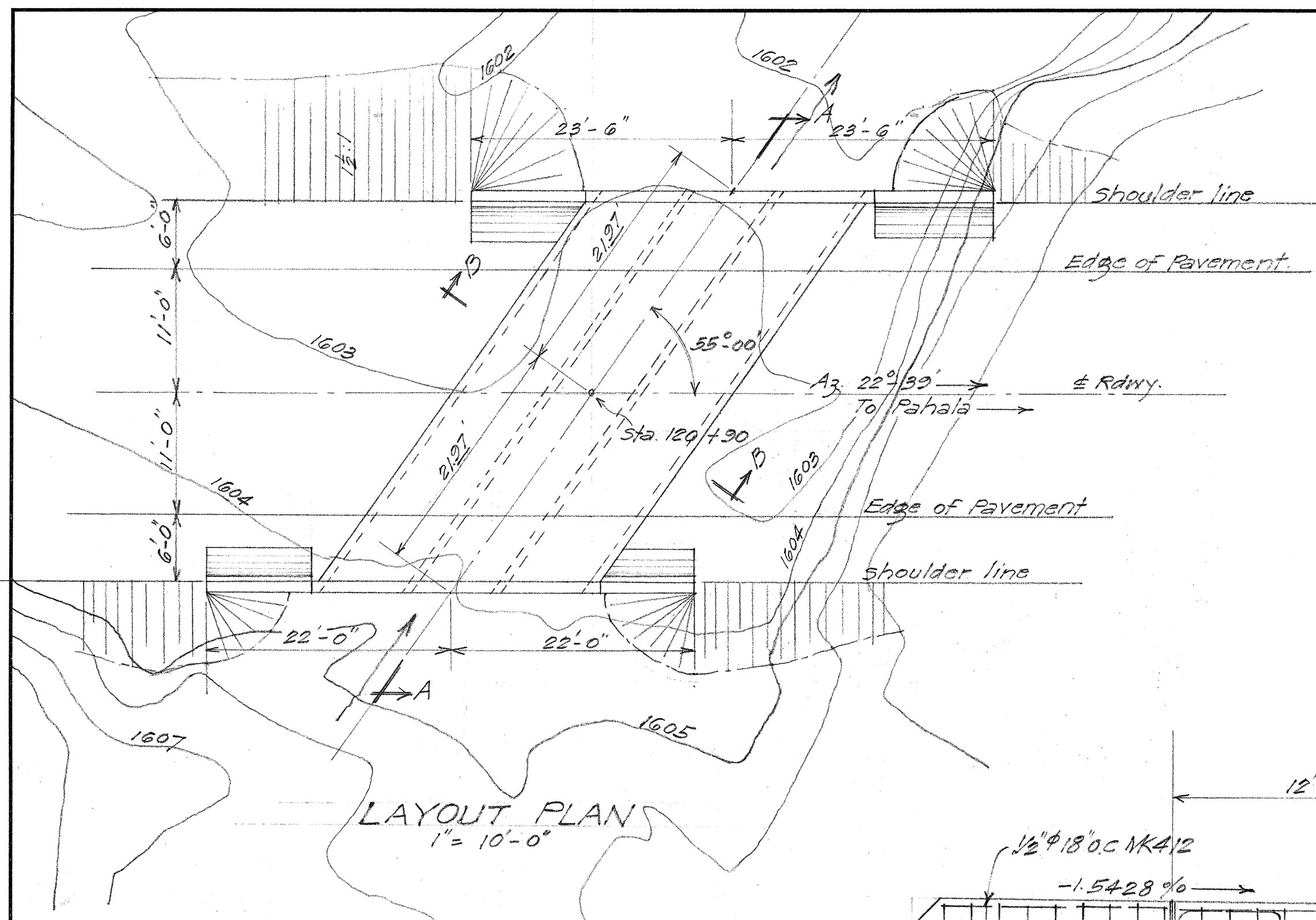


SLAB BOTTOM REINFORCING
3/8" = 1'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	10/22/44
DRAWN BY	11/1/44
CHECKED BY	11/1/44
NOTED BY	11/1/44
QUANTITIES CHECKED BY	11/1/44
CHECKED BY	11/1/44

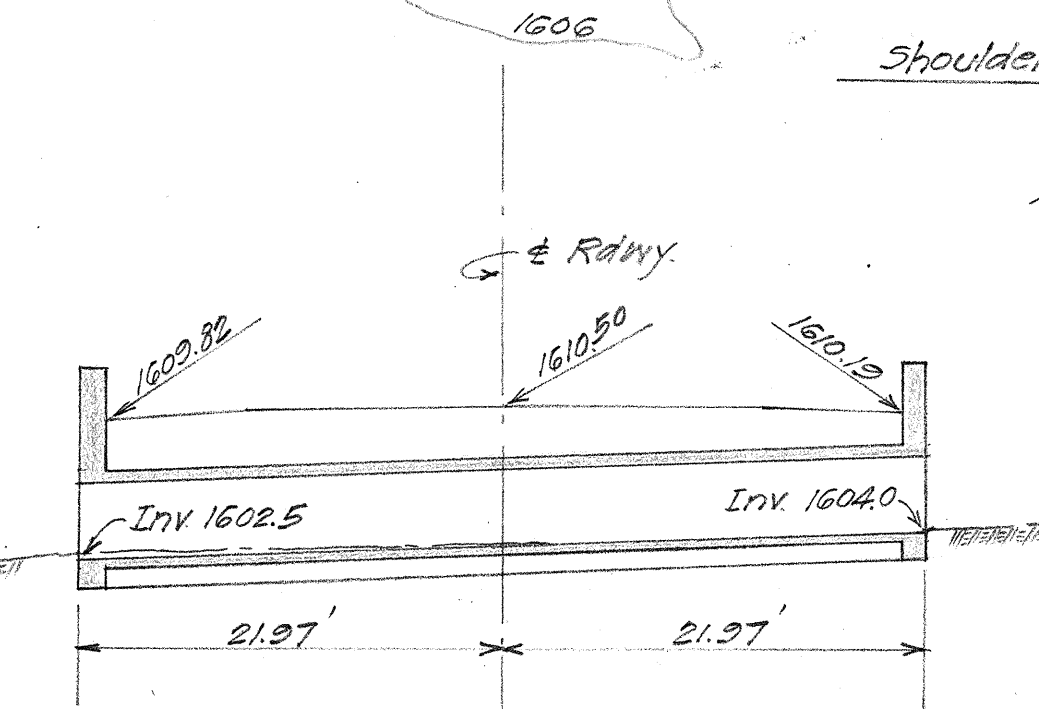
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
TRIPLE 6x5 BOX
CULVERT
Sta 103+80
HAWAII BELT RD. WER 1(1)
Jan. 1946

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	WER 1(1)	1946	17	38

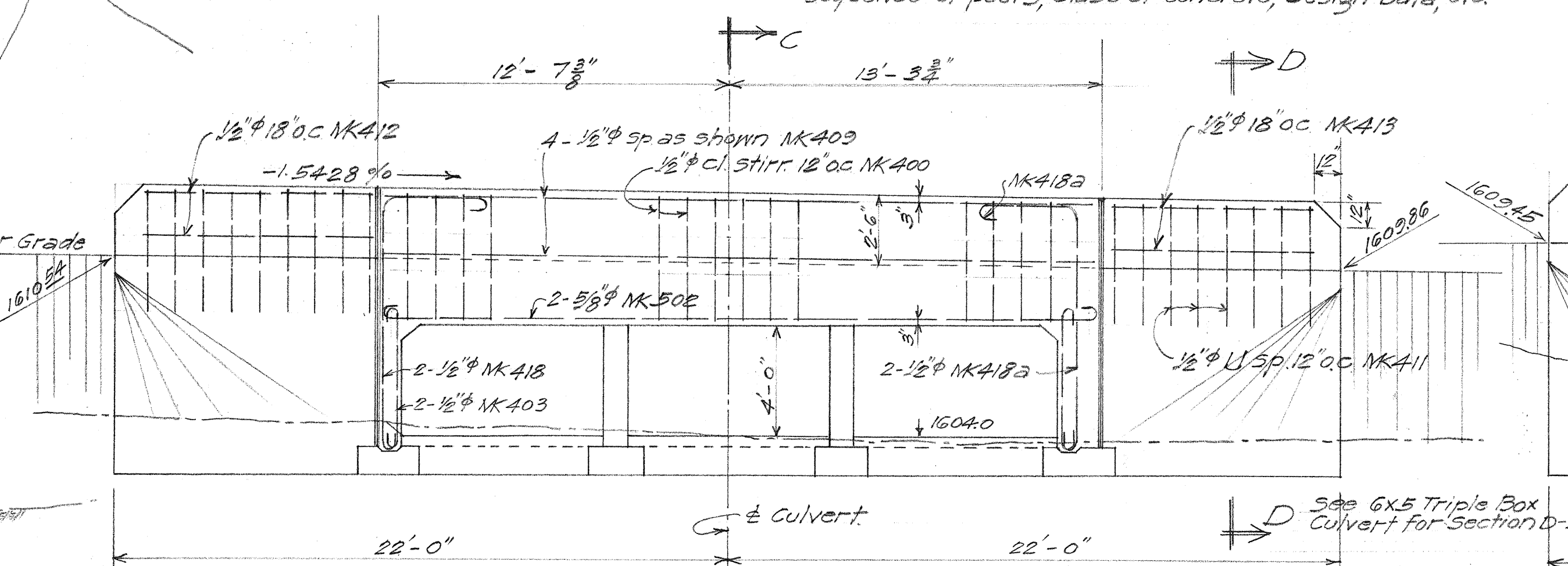


NORMAL SECTION B-B
 $\frac{1}{2}" = 1'-0"$
 See 6x5 Triple Box Culvert for notes regarding sequence of pours, Class of concrete, Design Data, etc.

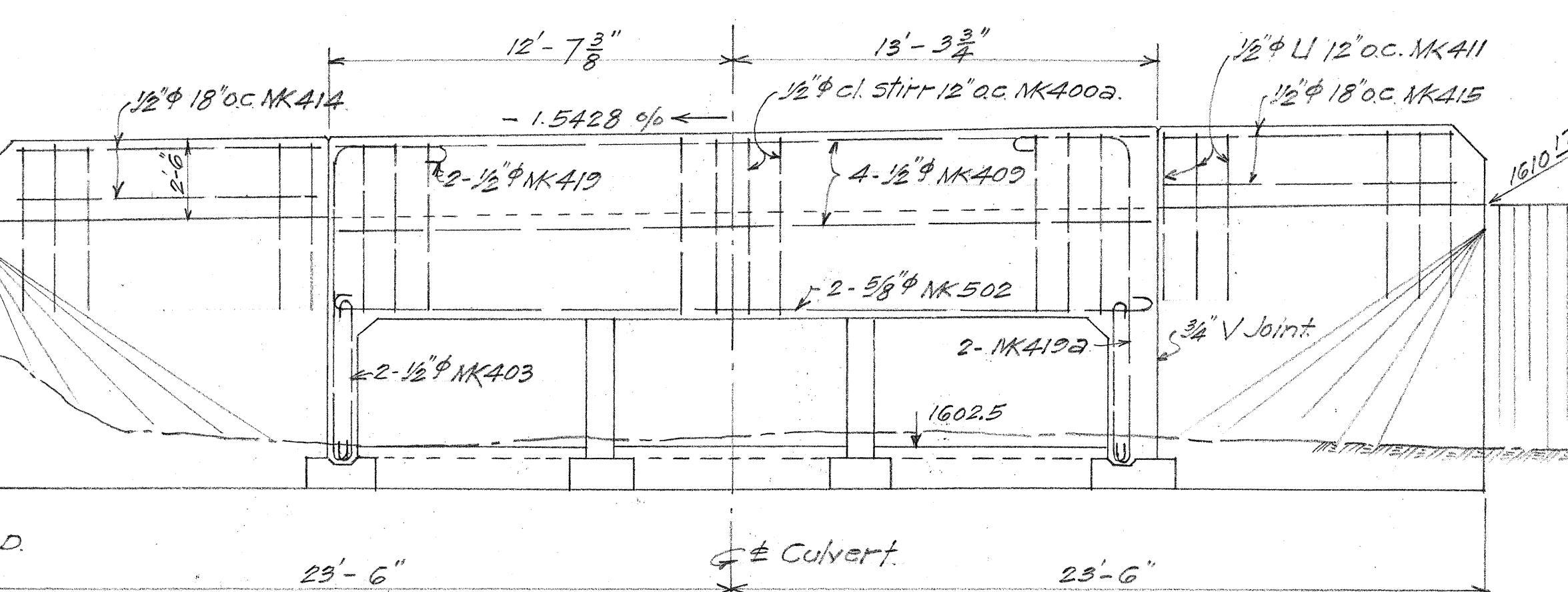
SECTION C-C
 $\frac{1}{2}" = 1'-0"$
 Note! Refer to 6x5 Triple Box Culvert at 109+80 for steel bending schedule not shown on this sheet.



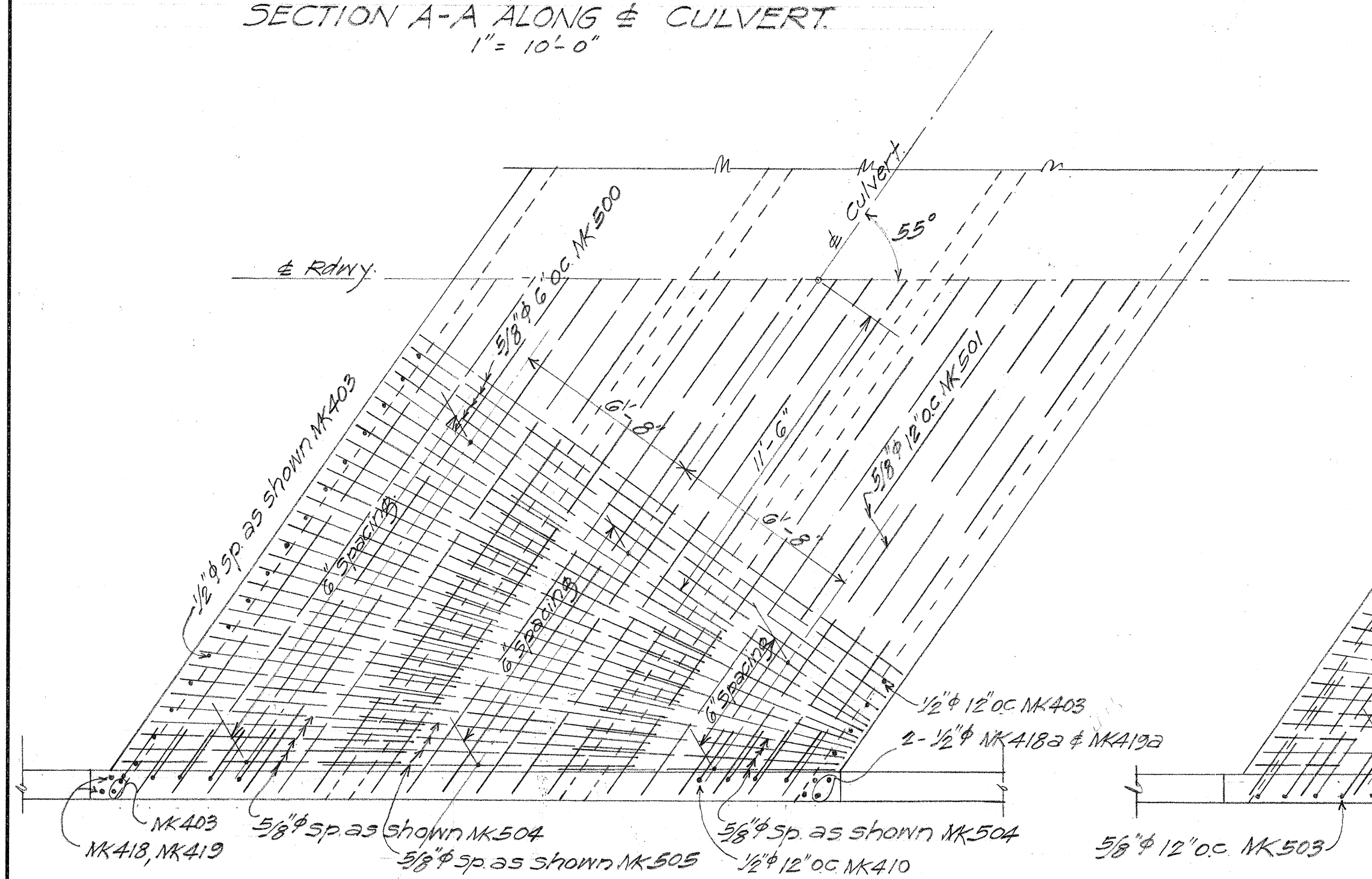
SECTION A-A ALONG CULVERT
 $1" = 10'-0"$



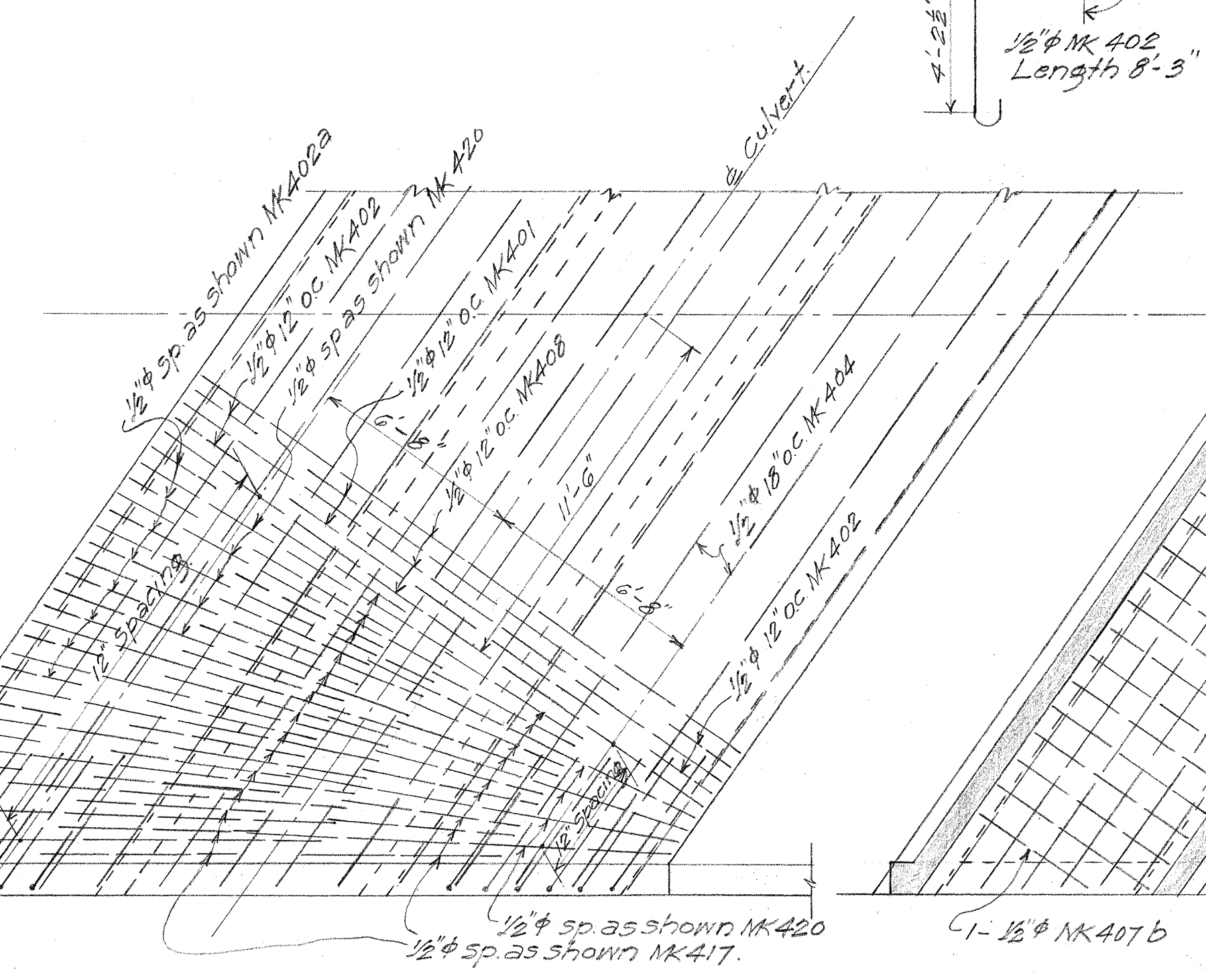
INTAKE ELEVATION
 $\frac{1}{4}" = 1'-0"$



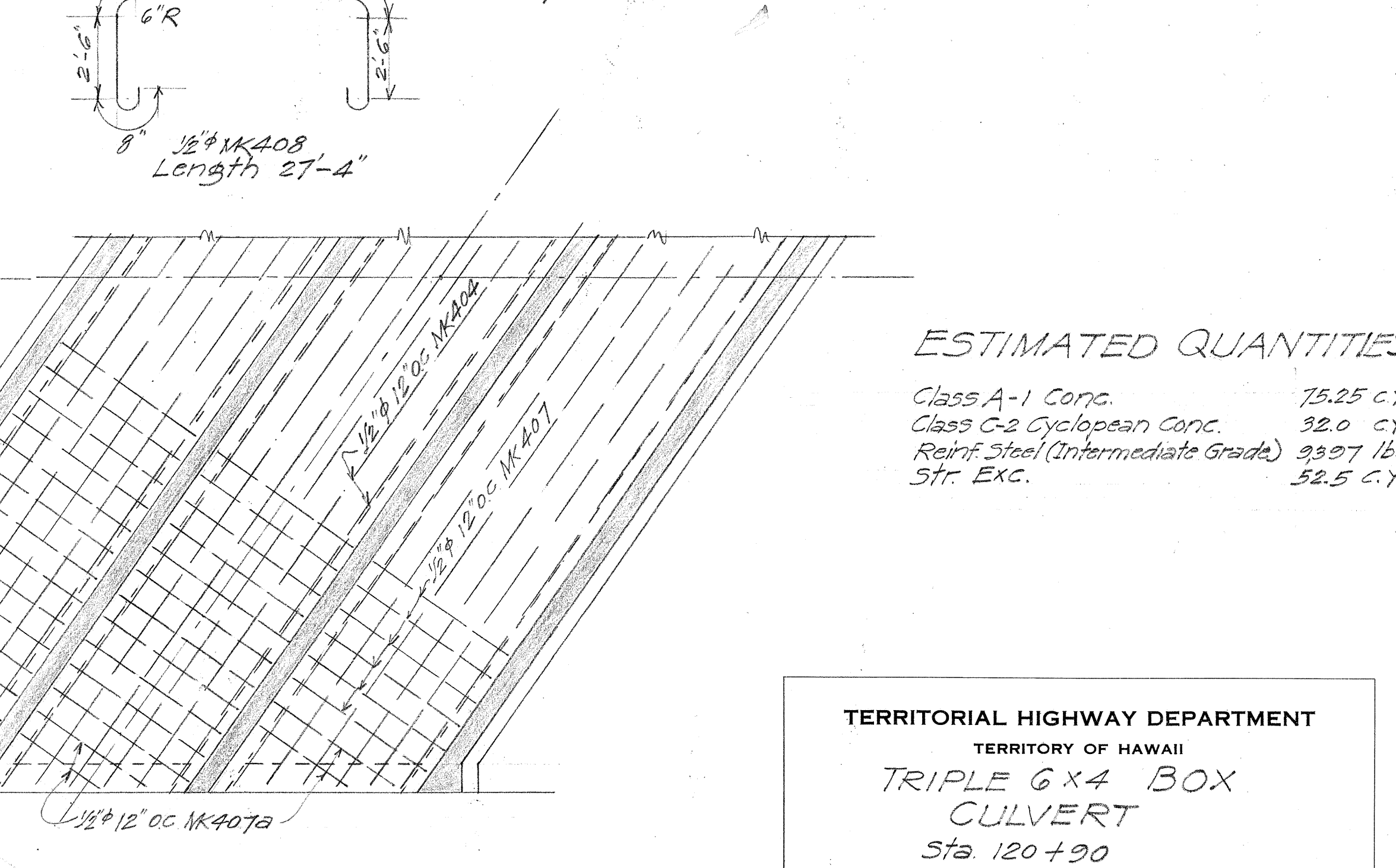
OUTLET ELEVATION
 $\frac{1}{4}" = 1'-0"$



SLAB BOTTOM REINFORCING
 $\frac{1}{4}" = 1'-0"$



SLAB TOP REINFORCING
 $\frac{1}{4}" = 1'-0"$



FLOOR SLAB REINFORCING
 $\frac{1}{4}" = 1'-0"$

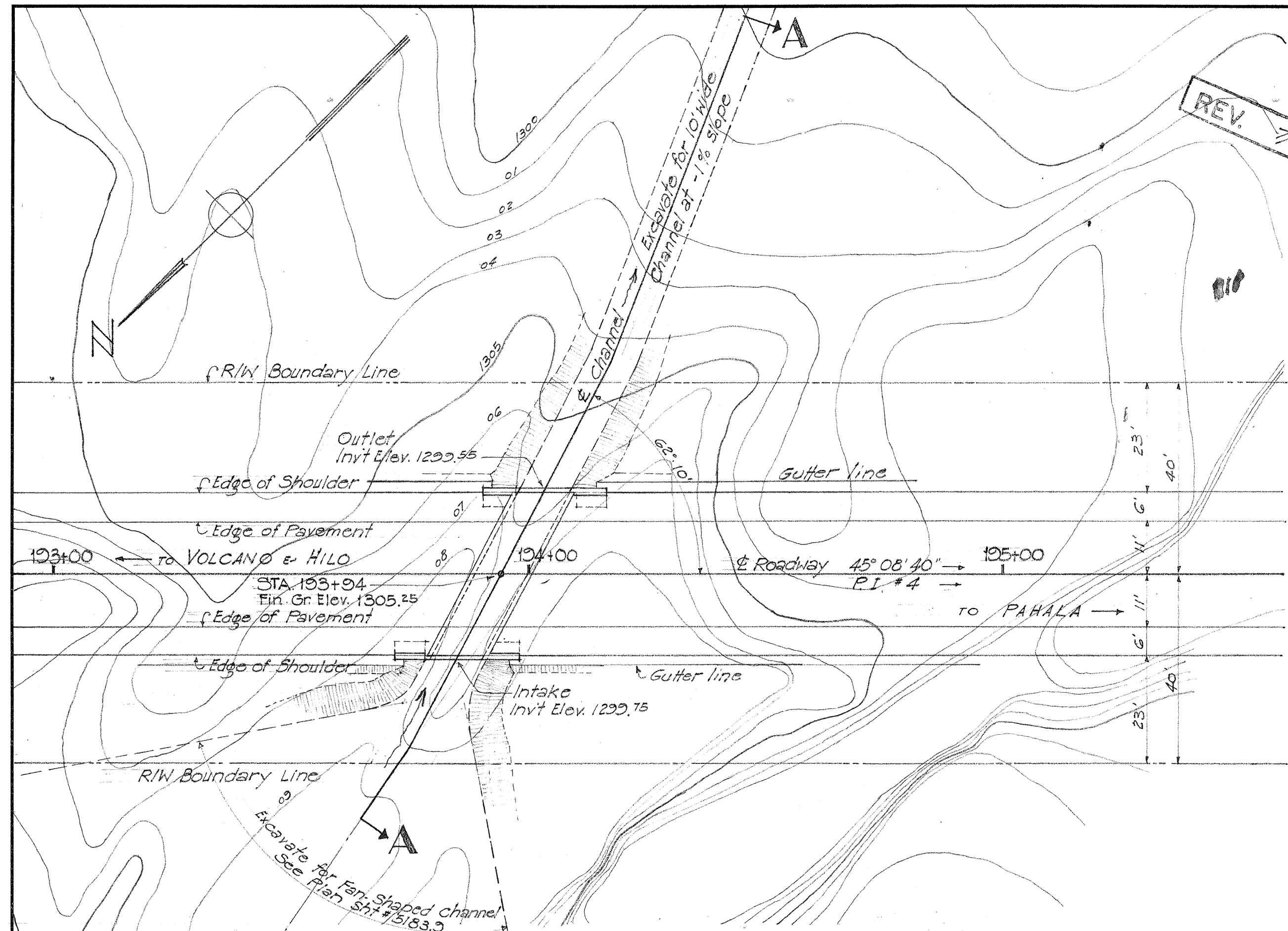
ESTIMATED QUANTITIES

Class A-1 Conc.	75.25 CY
Class C-2 Cyclopean Conc.	32.0 CY
Reinf Steel (Intermediate Grade)	93.97 lbs
STR EXC.	52.5 CY

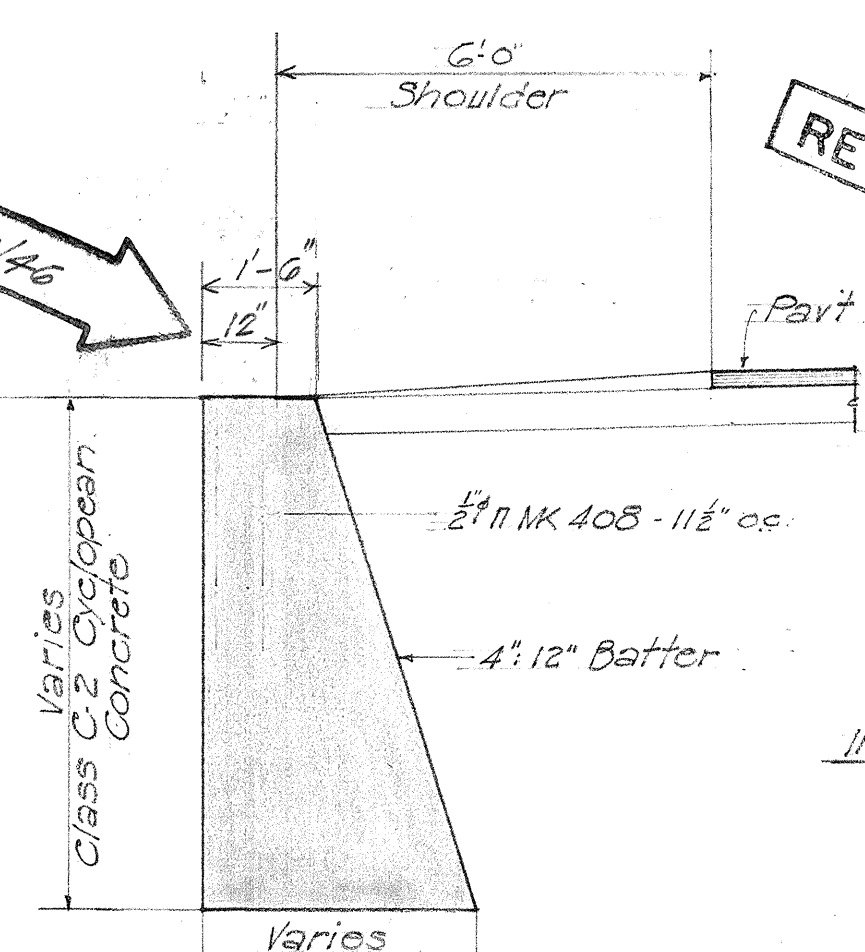
TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
TRIPLE 6x4 BOX CULVERT
 Sta 120+90
 HAWAII BELTRD WER 1(1)
 Jan 1946

ORIGINAL PLAN	DATE
DESIGNED BY	1/25/46
DRAWN BY	1/25/46
CHECKED BY	1/25/46
QUANTITIES CHECKED BY	1/25/46
NOTE BOOK	
NO.	

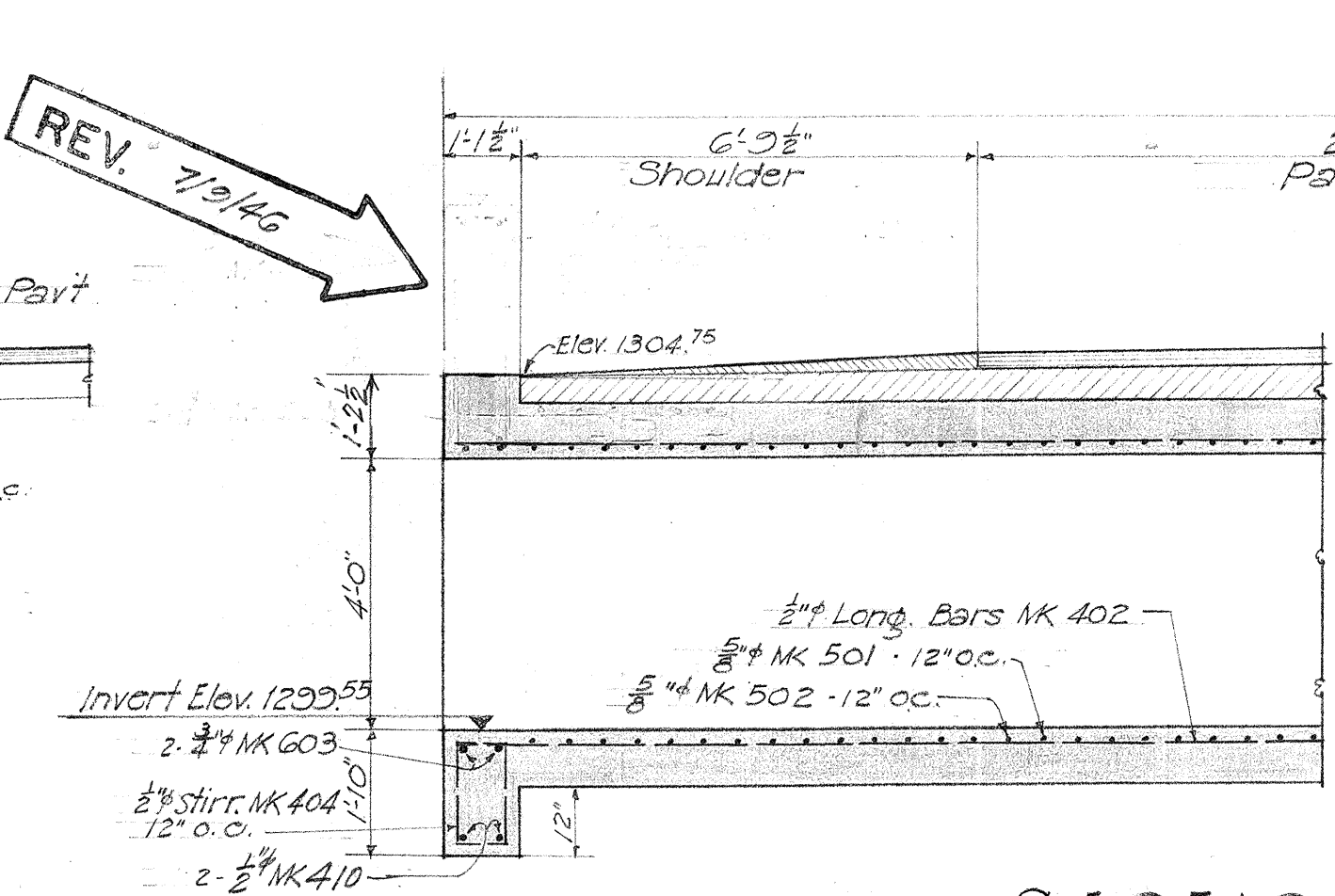
Revised: July 9, 1946
Parapet Wall omitted.
Quantities changed.



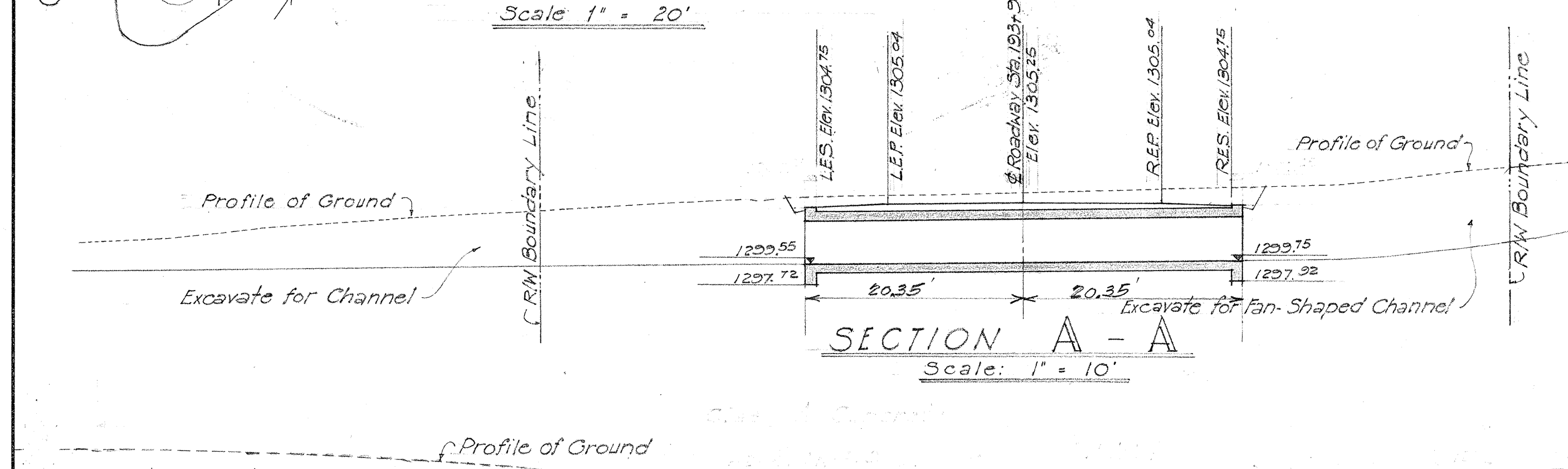
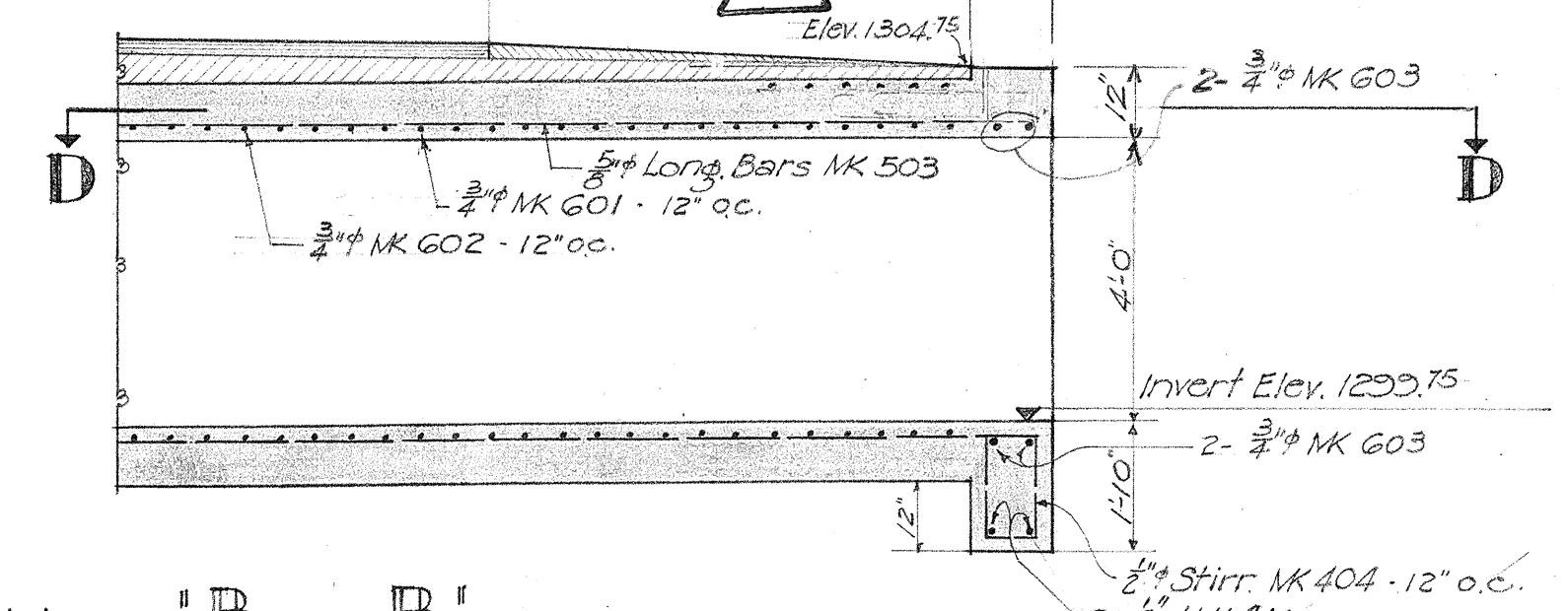
GENERAL LOCATION PLAN
Scale: 1" = 20'



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



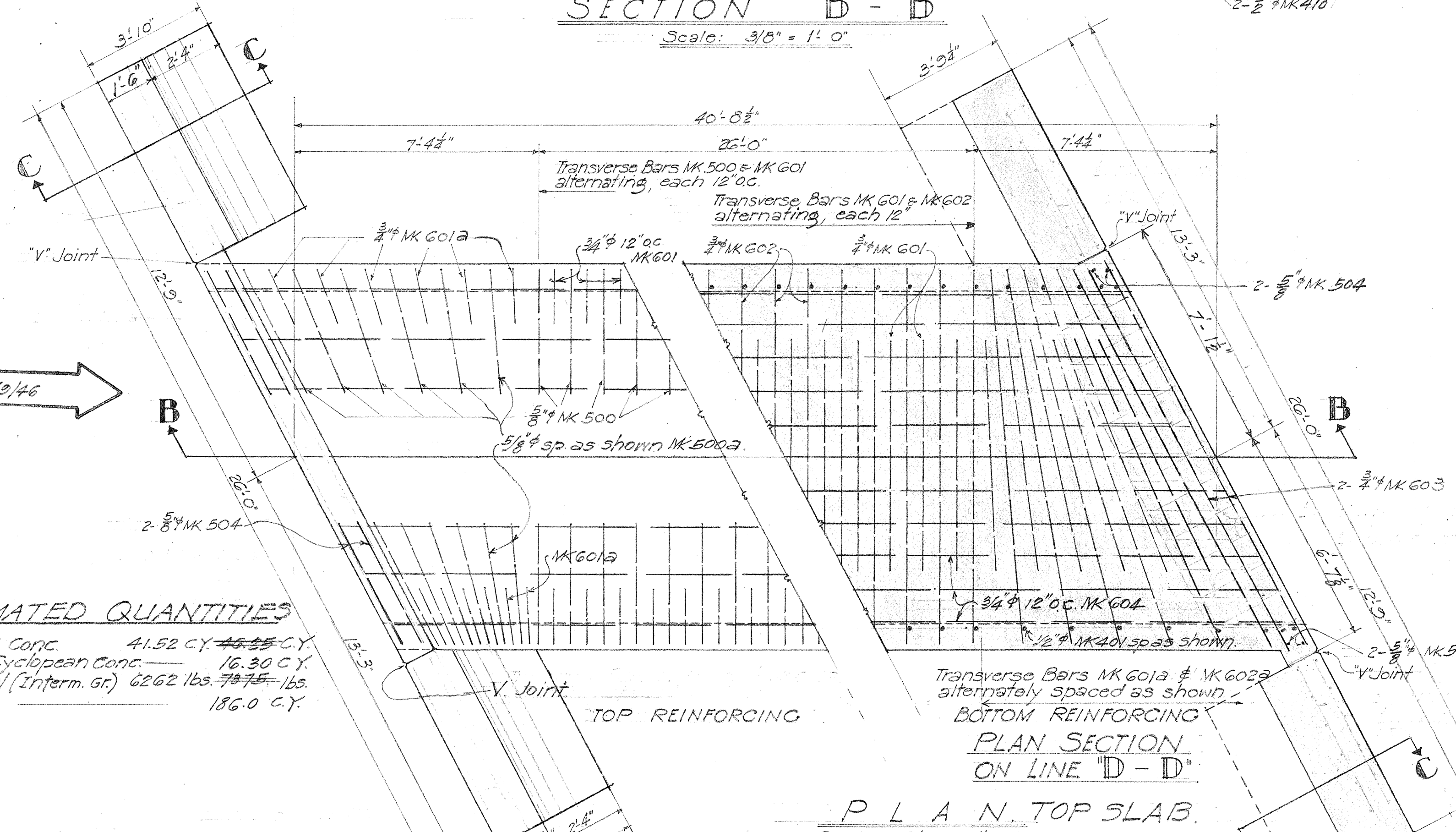
SECTION 'B-B'
Scale: 3/8" = 1' 0"



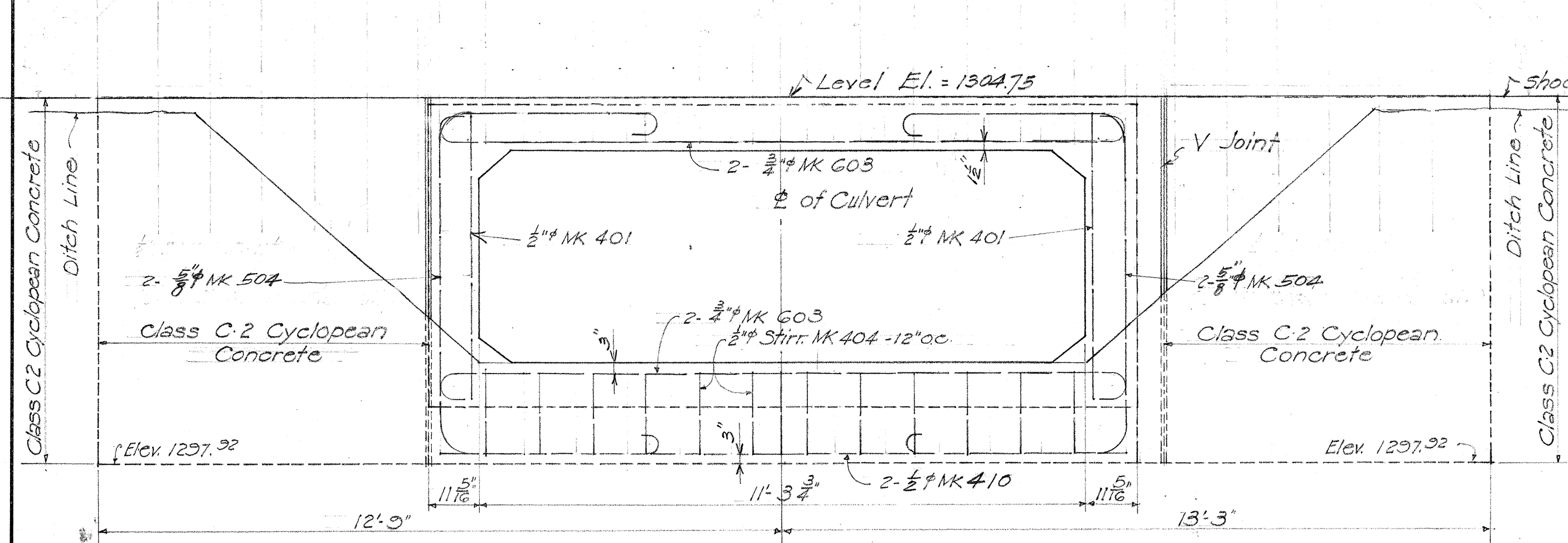
SECTION 'A-A'
Scale: 1" = 10'

ESTIMATED QUANTITIES

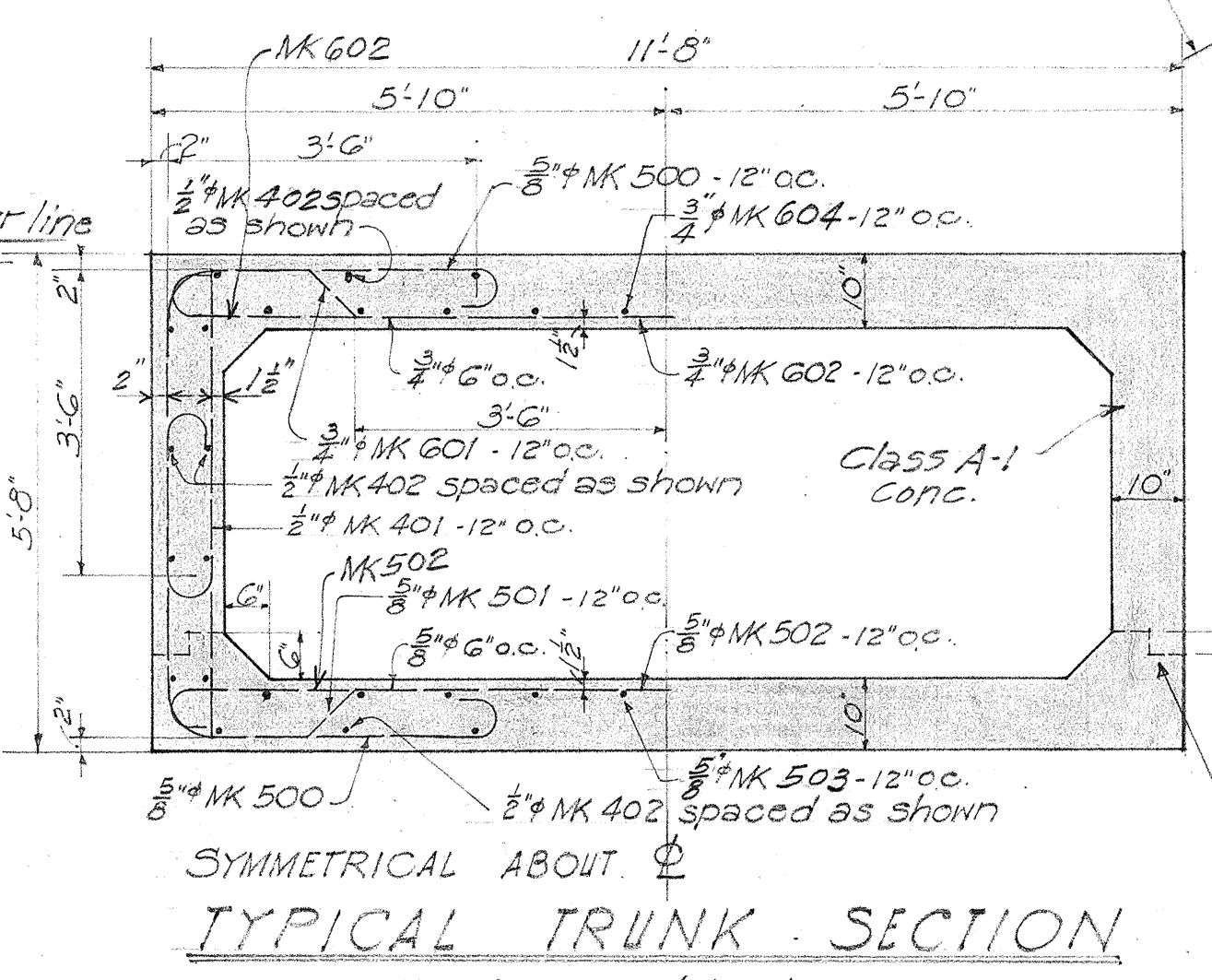
Class A-1 Conc. 41.52 C.Y. ~~46.25~~ C.Y.
Class C-2 Cyclopean Conc. 16.30 C.Y.
Reinf. Steel (Interm. Gr.) 6262 lbs. ~~7775~~ lbs.
Str. Exc. 186.0 C.Y.



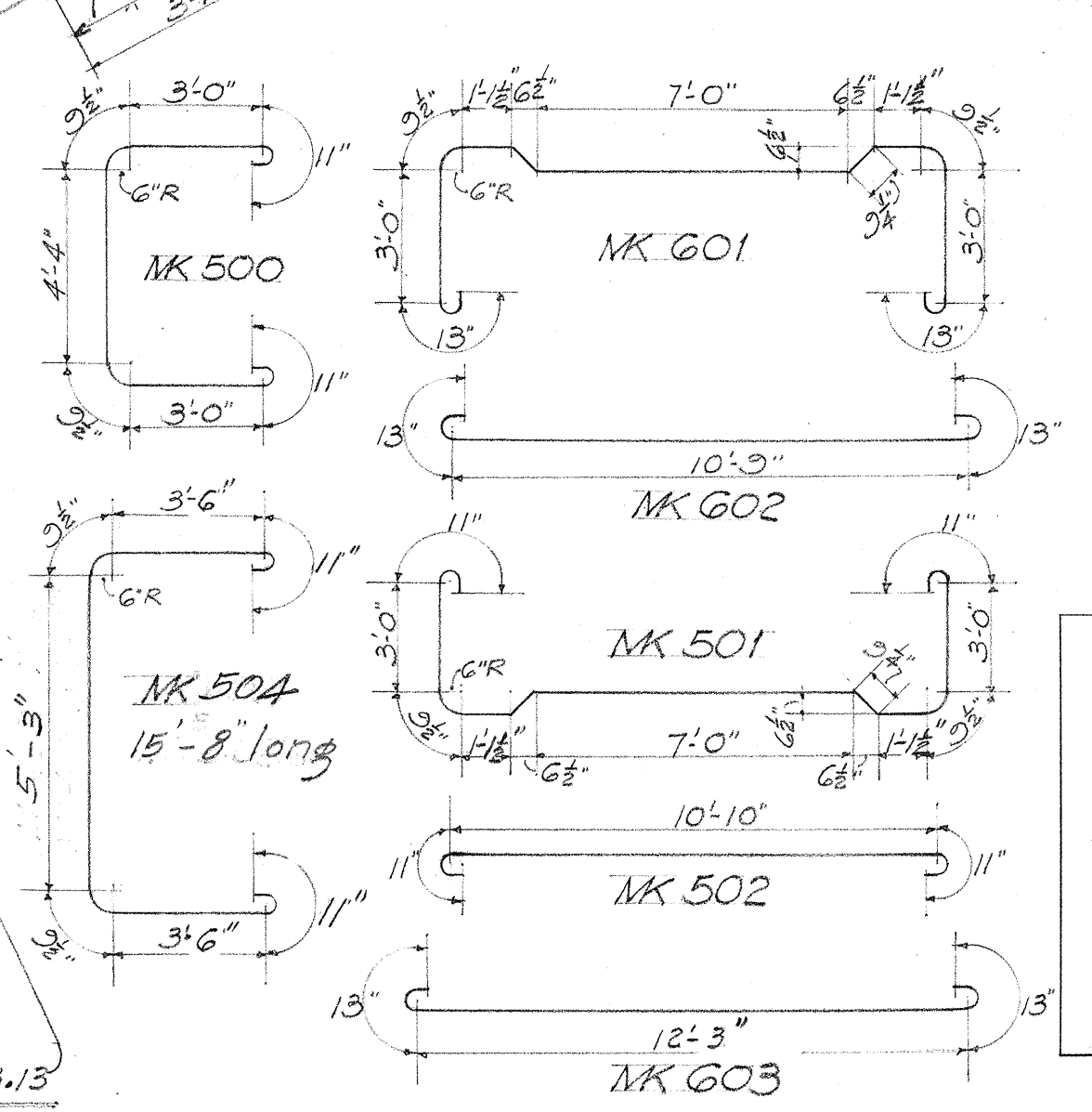
PLAN SECTION ON LINE 'D-D'
Scale: 3/8" = 1' 0"



ELEVATION AT INTAKE
Scale: 1/2" = 1' 0"



TYPICAL TRUNK SECTION
Scale: 1/2" = 1' 0"



Note to Public Rds. Administration.
Structure has no parapet because it is located in a ford. See Sht. No. 5183.2.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
10' x 4' BOX CULVERT
AT STA. 123 + 94
HAWAII BELT ROAD
PAHALA SECTION, KAU
PROJECT NO. WER. 1 (1)

DATE: 7/9/46
DESIGNED BY: H. E. HARRIS
DRAWN BY: R. O. SMITH
CHECKED BY: E. J. HARRIS
ORIGINAL PLAN BOOK NO. 5183.18