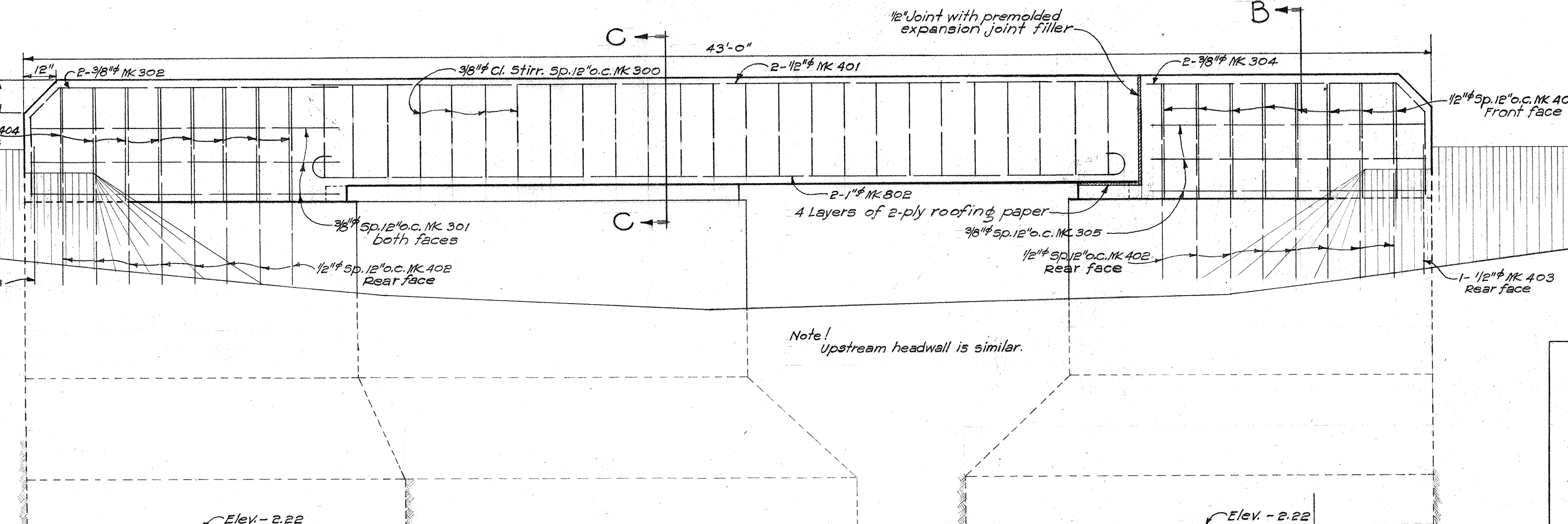
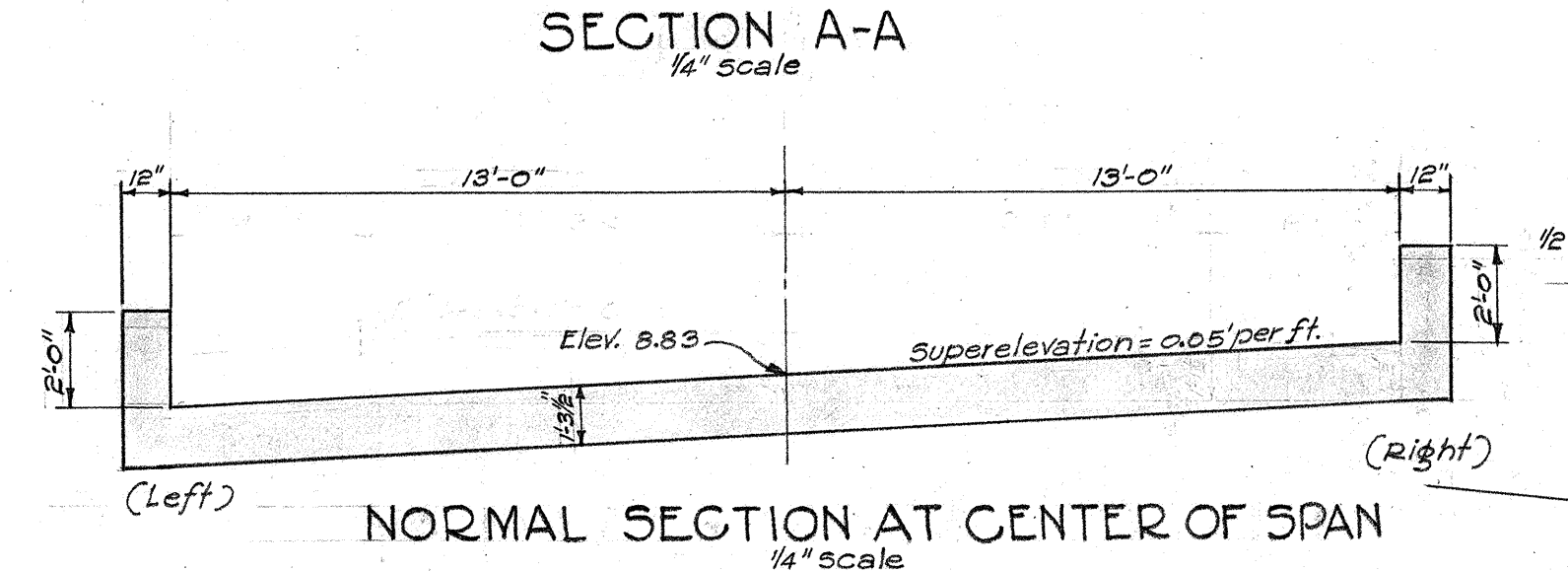
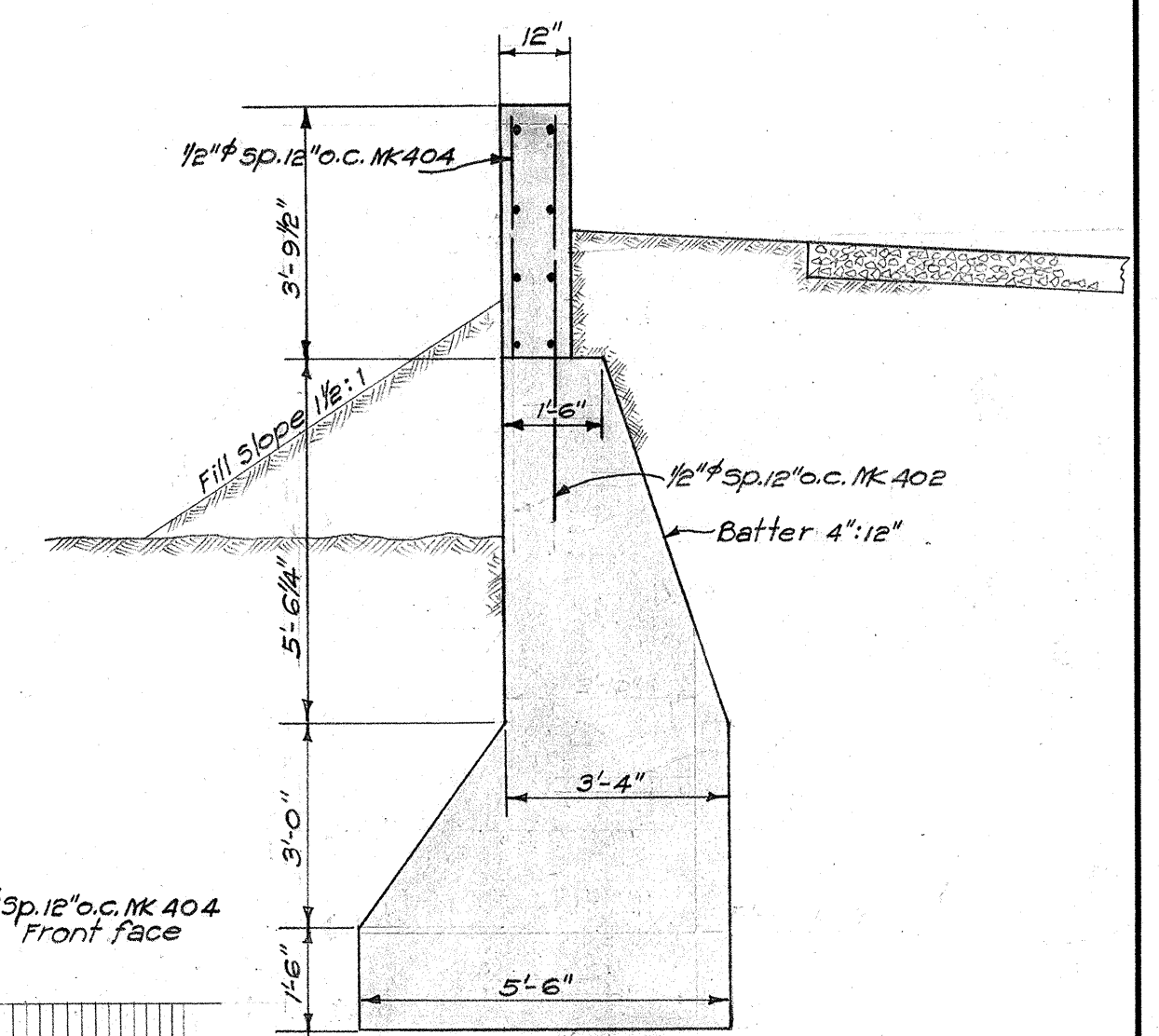
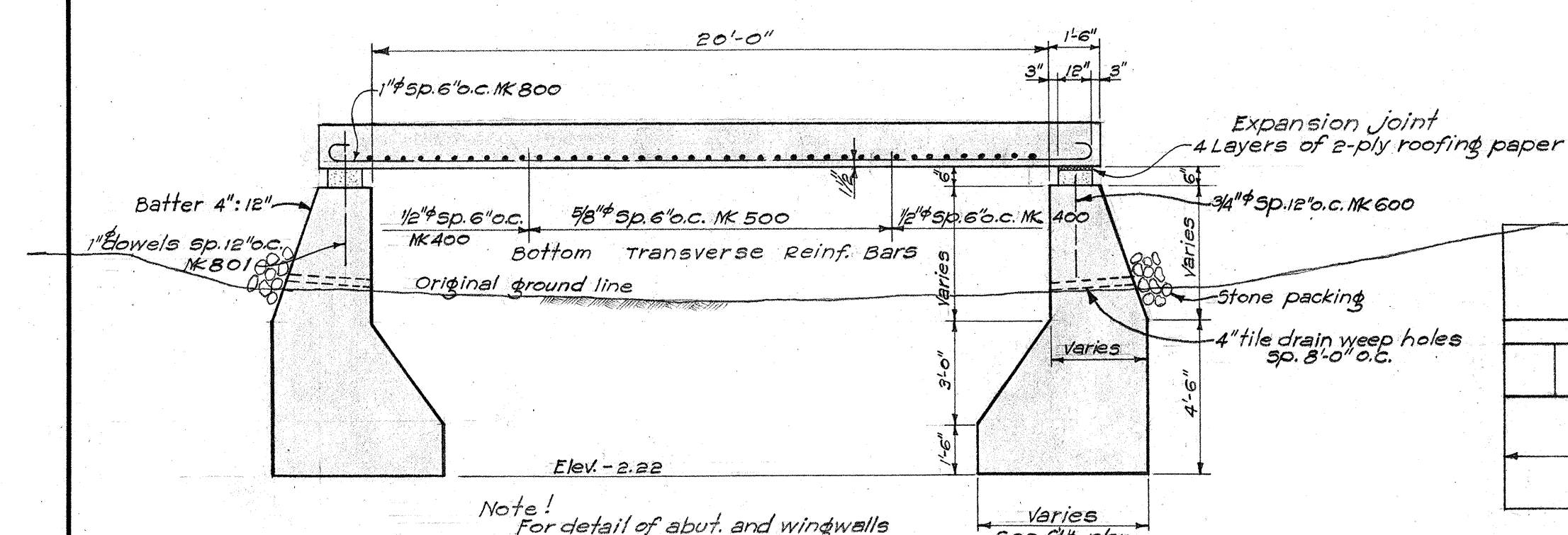
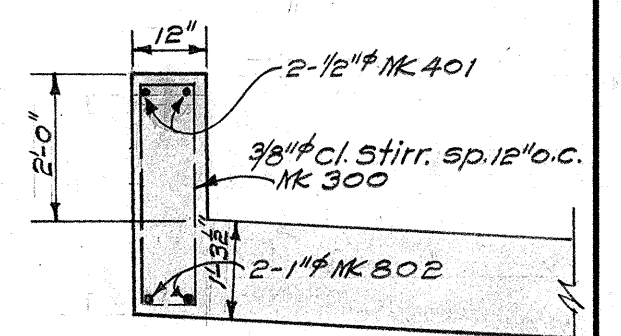
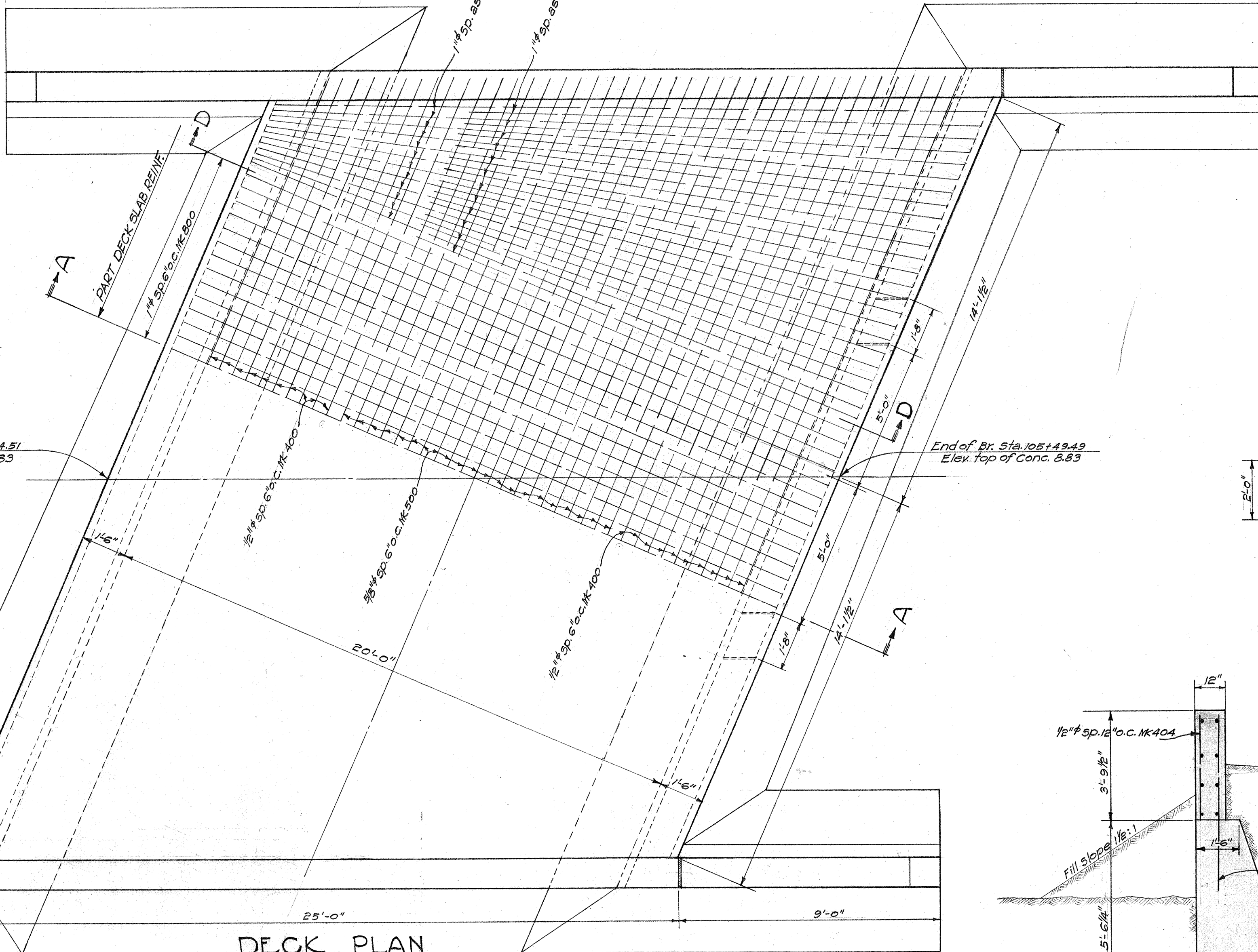
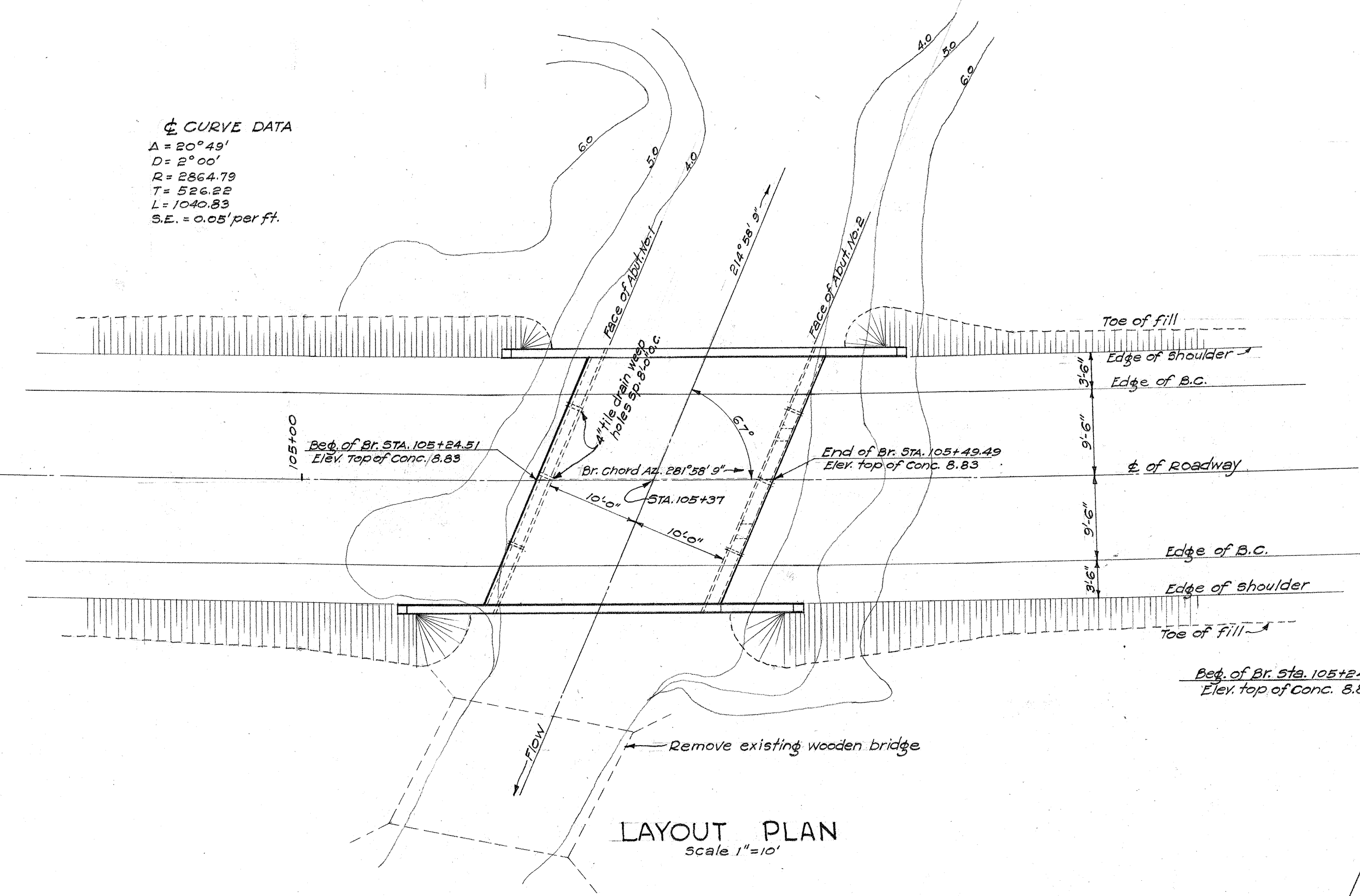


Curve Data
 $A = 20^\circ 49'$
 $D = 2^\circ 00'$
 $R = 2864.79$
 $T = 526.22$
 $L = 1040.83$
 $S.E. = 0.05\%$



ESTIMATED QUANTITIES

REINF. STEEL	6948 LBS
CLASS 'A' CONC.	43.3 C.Y.
CLASS 'B' CONC. WITH BOULDERS OR C.R.M.	111.3 C.Y.
STR. EXC.	162.0 C.Y.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
BRIDGE No. 1
 STA. 105+24.51 TO 105+49.49
 EAST MOLOKAI ROAD F.A.S. 2A(1)

SURVEY PLOTTED BY: DATE: 10/1/58
 DRAWN BY: P. J. 10/1/58
 TRACED BY: P. J. 10/1/58
 QUANTITIES CHECKED BY: P. J. 10/1/58
 NOTE BOOK No. 1

2'-0"

14'-1 1/2"

14'-1 1/2"

Elev. 7.80

Elev. 9.48

Elev. 8.28

2'-0"

1" dowels sp. 12" o.c. 11R B01

Elev. -5.22

Diagram illustrating a vehicle chassis layout with wheel alignment dimensions:

- Top view shows a center-to-center distance of $14'0''$ between the two wheels.
- Side view shows the wheels positioned on a $9'0''$ wide track, with a $6'0''$ offset from the centerline.
- Labels indicate the axle weights: $2400\#$ Rear Axle and $6000\#$ Front Axle.
- Dimensions for wheel spacing are marked as $30'$ to next wheel on both sides.

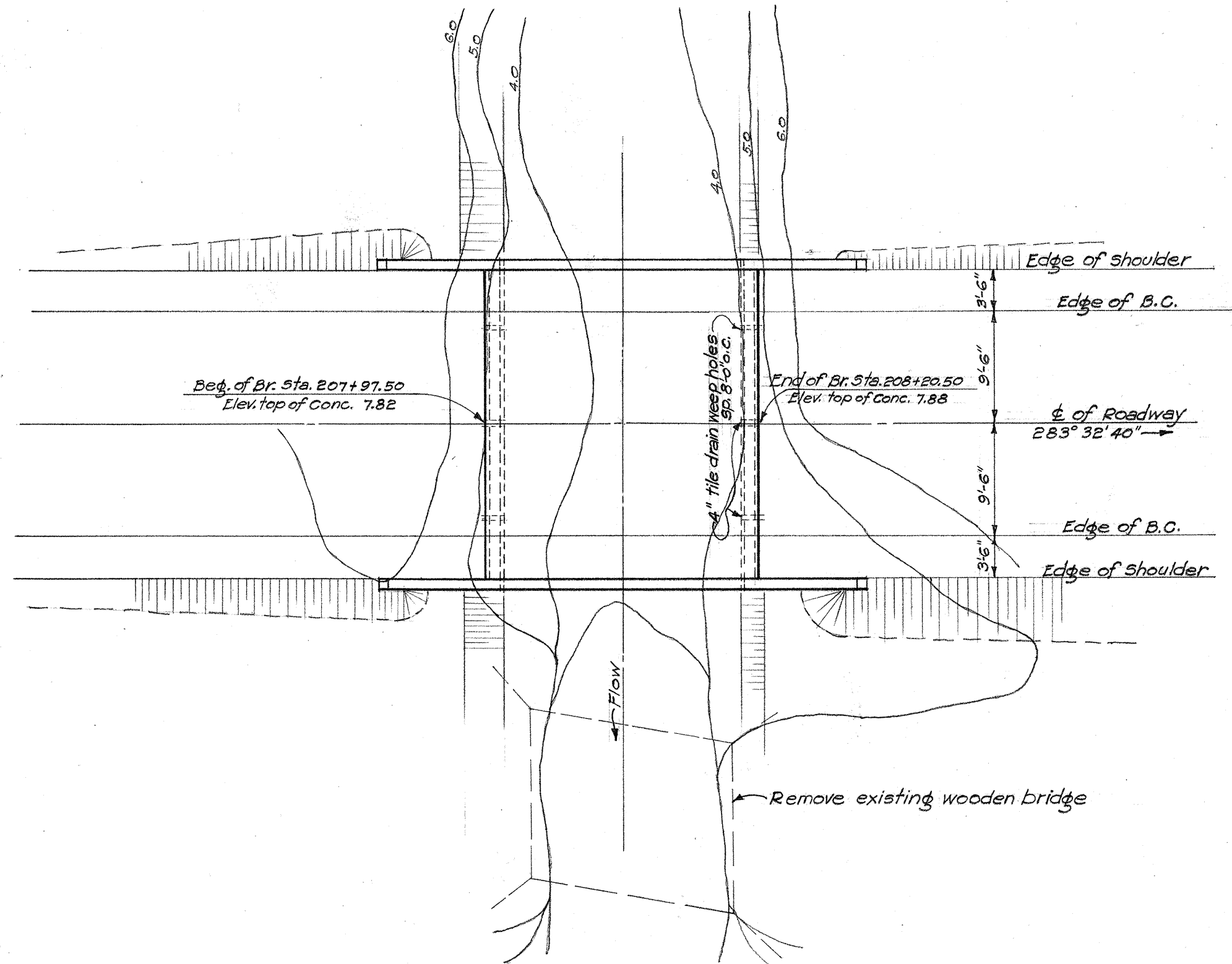
Architectural section drawing of a roof structure. The drawing shows a cross-section of a roof with a sloped deck supported by a wall on the left and a lower wall on the right. The roof deck is labeled "Expansion Joint 4 layers of Ply roofing paper". The wall on the left is labeled "Elev. 6.28". The roof deck is labeled "Elev. 8.18" at the left edge and "Elev. 8.83" at the right edge. The wall on the right is labeled "Elev. 7.80". The roof slope is indicated by a dimension line showing a rise of 1'-0" over a run of 14'-1 1/2". The roof thickness is labeled "2'-0"". The wall on the right is labeled "2'-0"". The roof is supported by a series of vertical hatching lines. A note indicates "3/4" Sp. 12" O.C. MC 600". The drawing is labeled "Elev. -2.22" at the bottom right.

Footing plan showing two abutments, Abut. No. 1 and Abut. No. 2, with detailed dimensions and stationing. The plan includes a centerline, wingwalls, and various structural dimensions. Key dimensions include overall lengths of 16'-7 3/4" and 18'-5 3/4", and widths of 5'-0" and 5'-6". Stationing points are marked as "End of Br. Sta. 105+49.49" and "Beg. of Br. Sta. 105+24.51". A section line A-A is indicated.

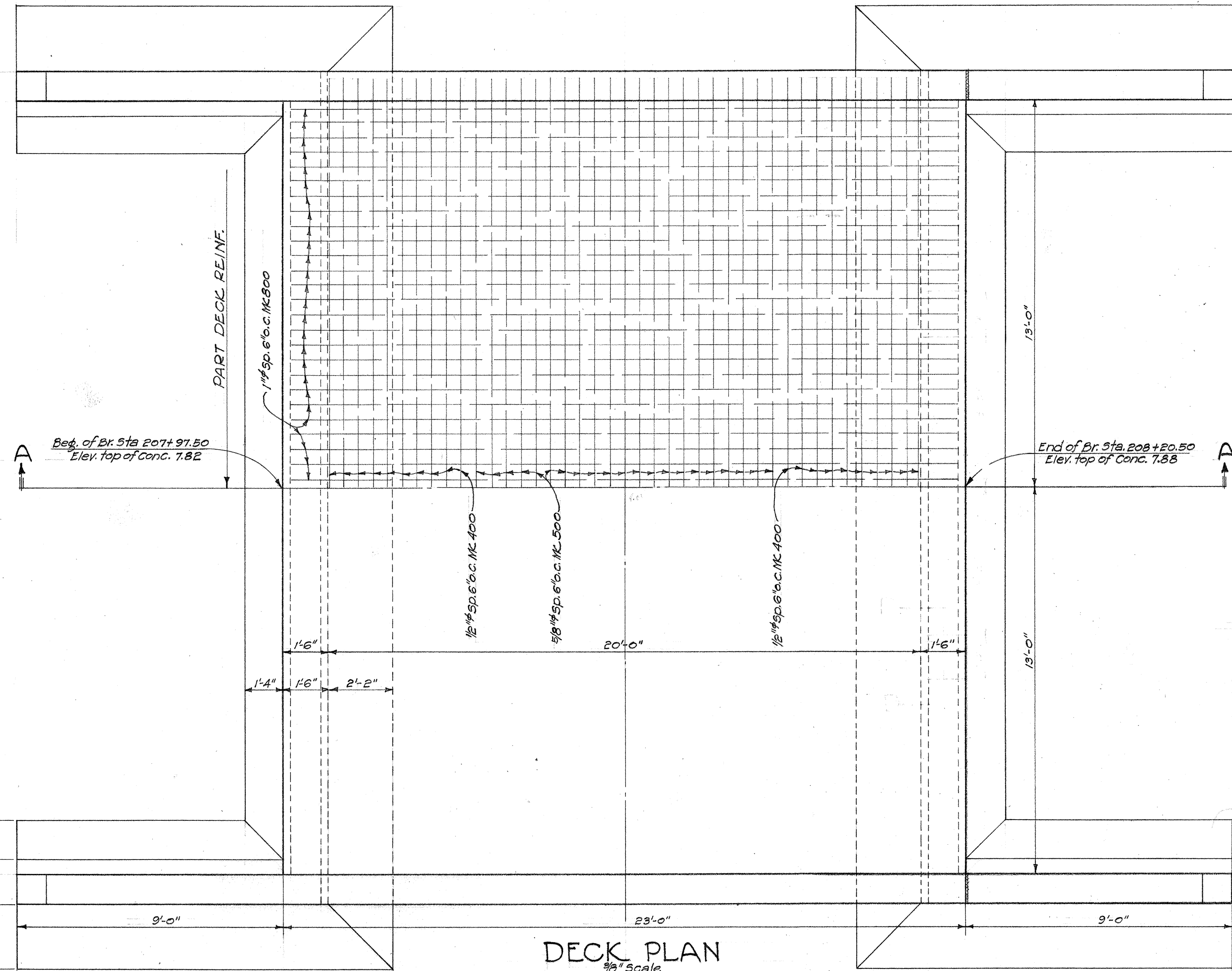
Technical drawing of a wing wall cross-section. The drawing includes the following dimensions and labels:

- Top width: 3" (left), 1/2" (center), 3" (right)
- Top section height: 6"
- Left side height: Varies
- Left side section height: 3'-0"
- Bottom left section height: 1'-6"
- Right side height: 4'-6"
- Bottom width: Varies - Min. = 5'-0", Max. = 5'-6"
- Labels:
 - Conc. seat - Class "A"
 - 1" # dowels sp. 12" o.c. MK 801
 - Batter 4":12"
 - About 1/2 wingwalls to be of Class "B" Conc. with boulders or G.E.M. (See Special Provisions)
 - 2'-2"

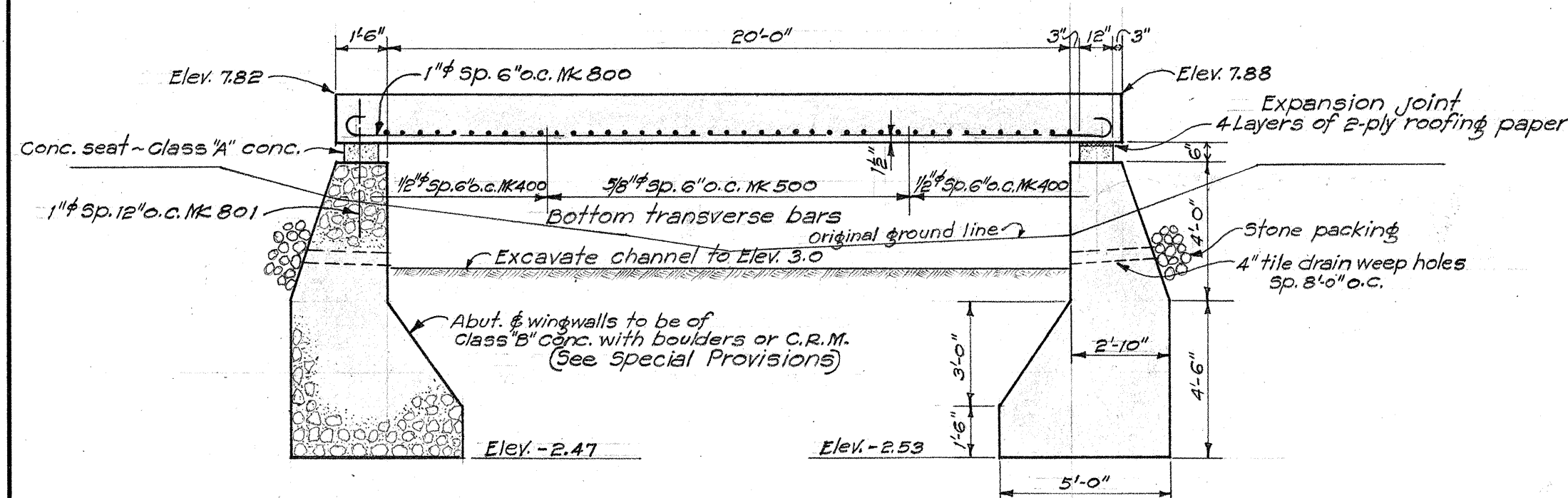
4477.26



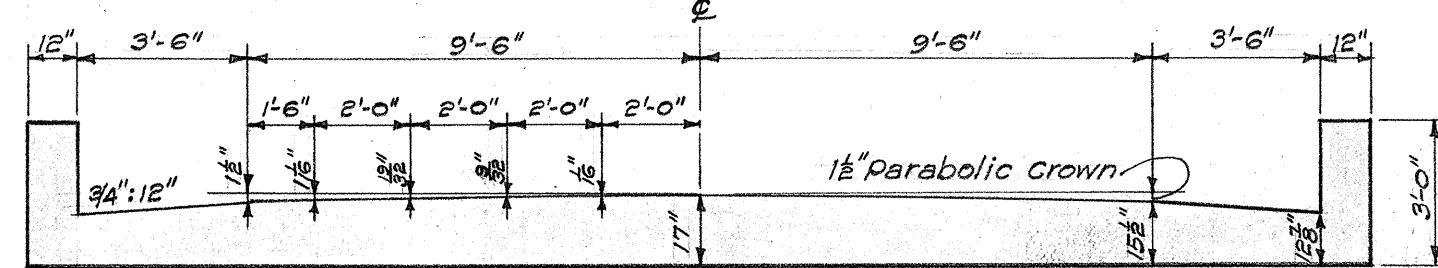
LAYOUT PLAN
Scale 1"=10'



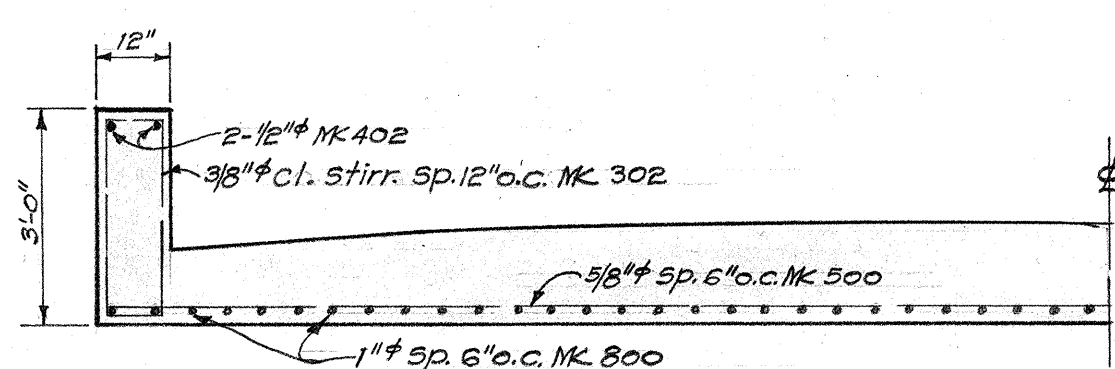
DECK PLAN
3/8" Scale



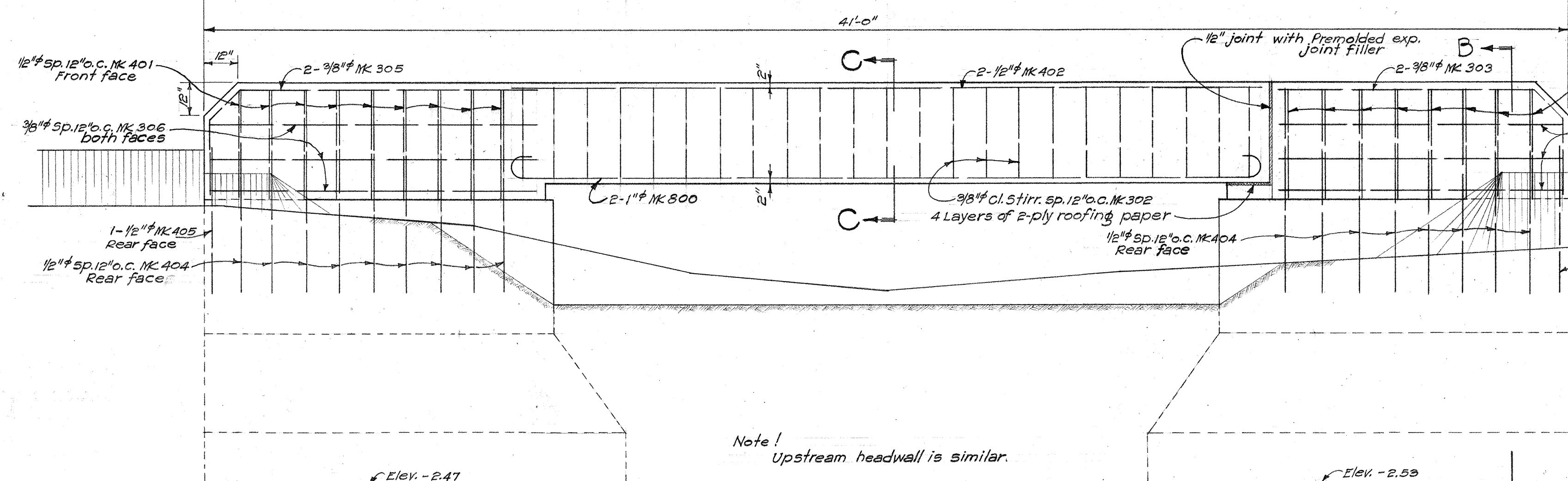
SECTION A-A
1/4" Scale



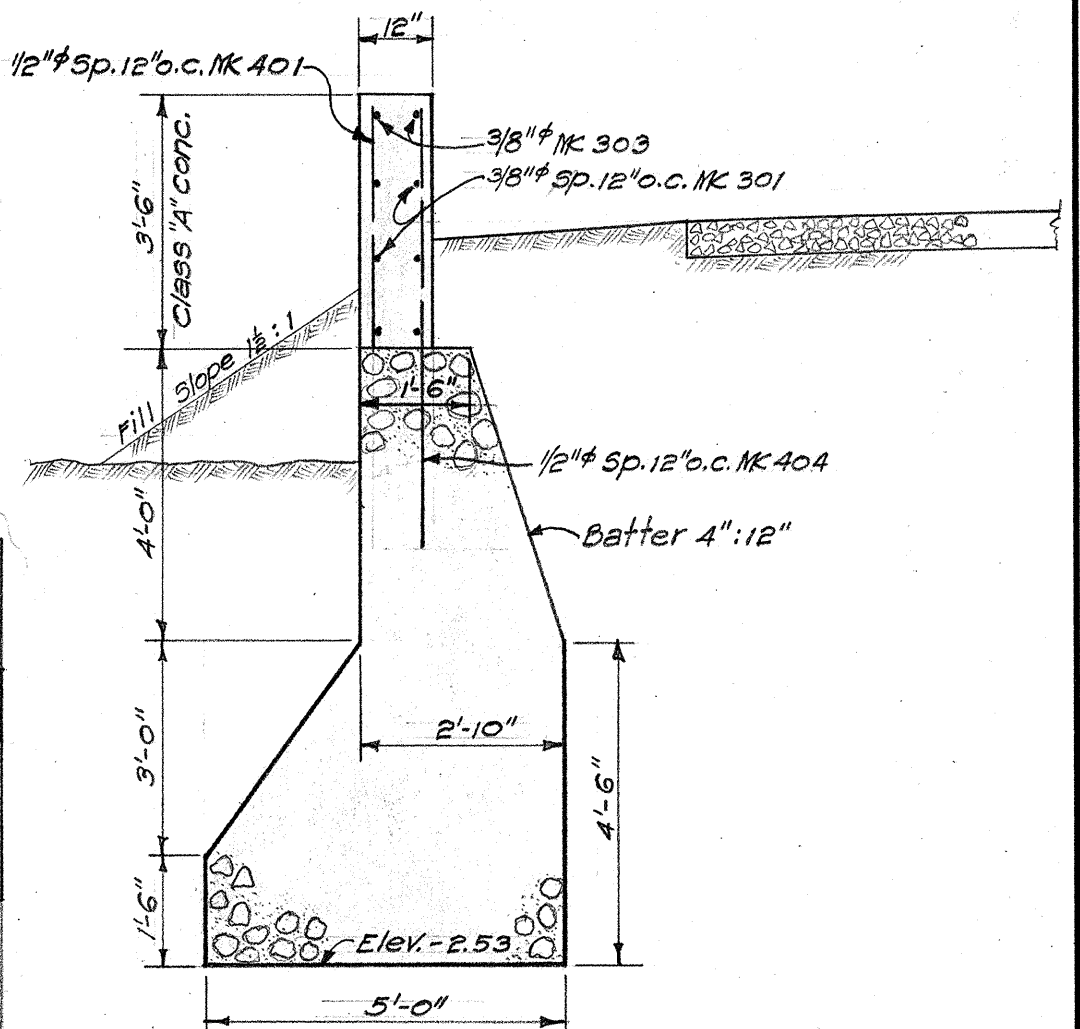
CROSS-SECTION OF DECK
1/4" Scale



SECTION C-C
3/8" Scale



DOWNSTREAM ELEVATION
3/8" Scale

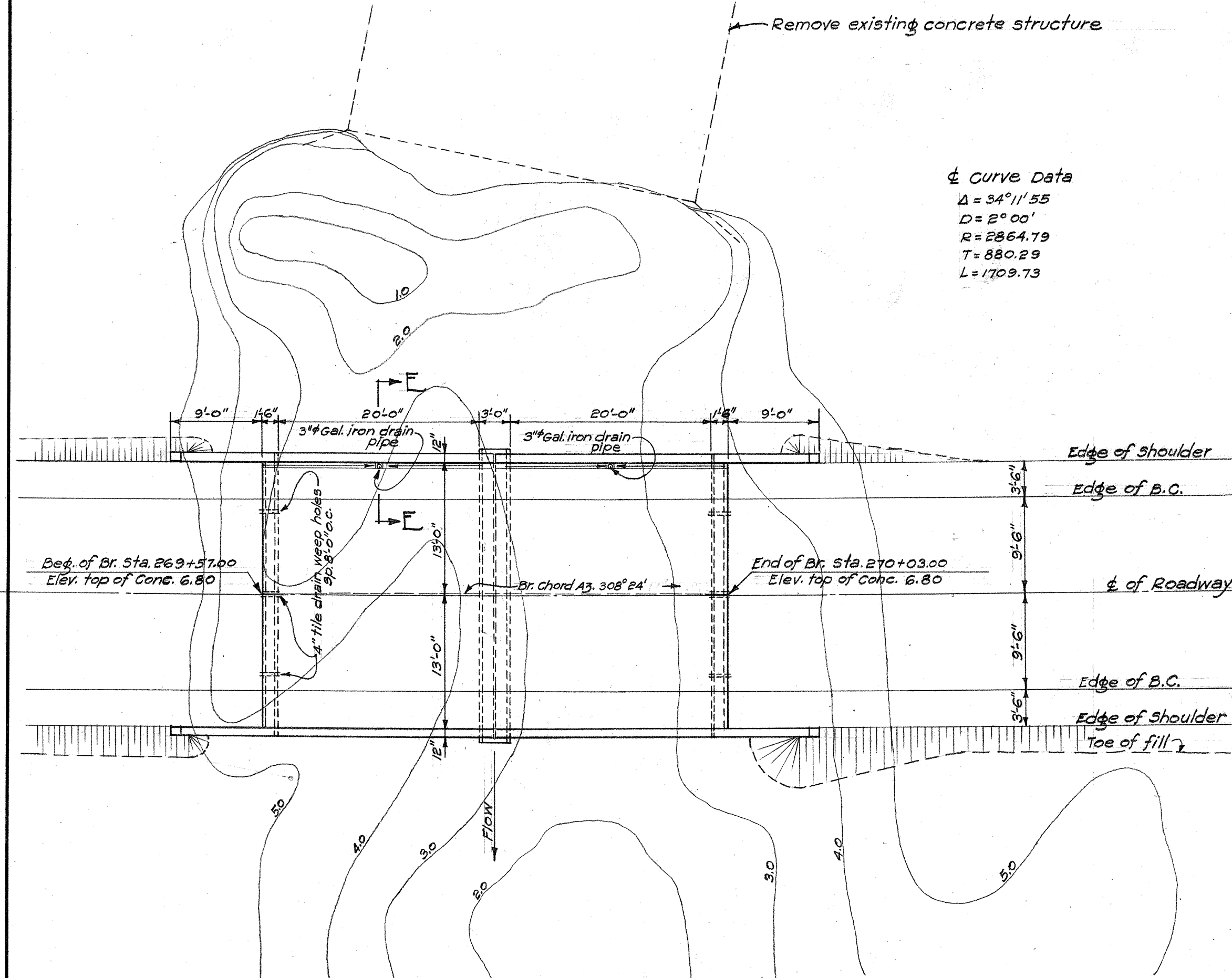


SECTION B-B
3/8" Scale

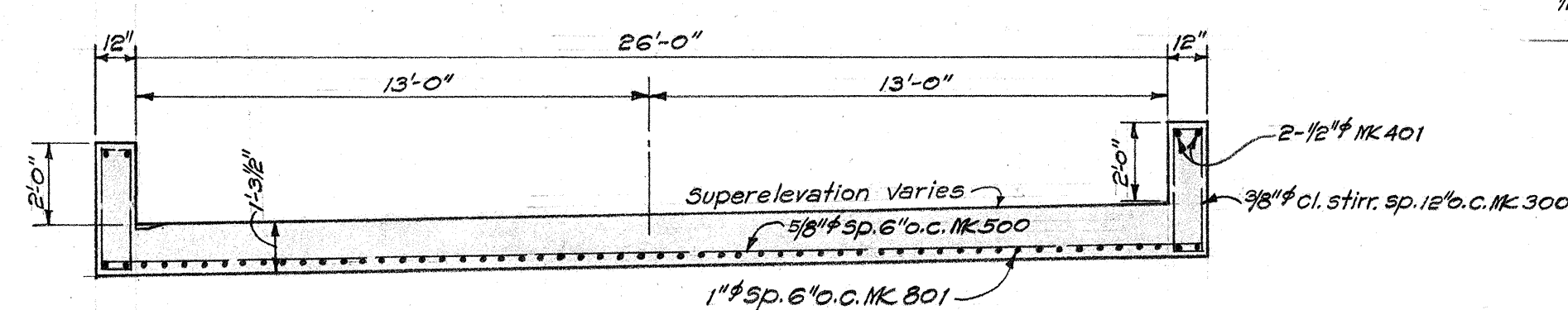
ESTIMATED QUANTITIES

REINF. STEEL	5474 LBS
CLASS A CONC.	40.1 C.Y.
CLASS B CONC. WITH BOULDERS OR C.R.M.	95.2 C.Y.
STR. EXC.	177.0 C.Y.
CHANNEL EXC.	37.0 C.Y.

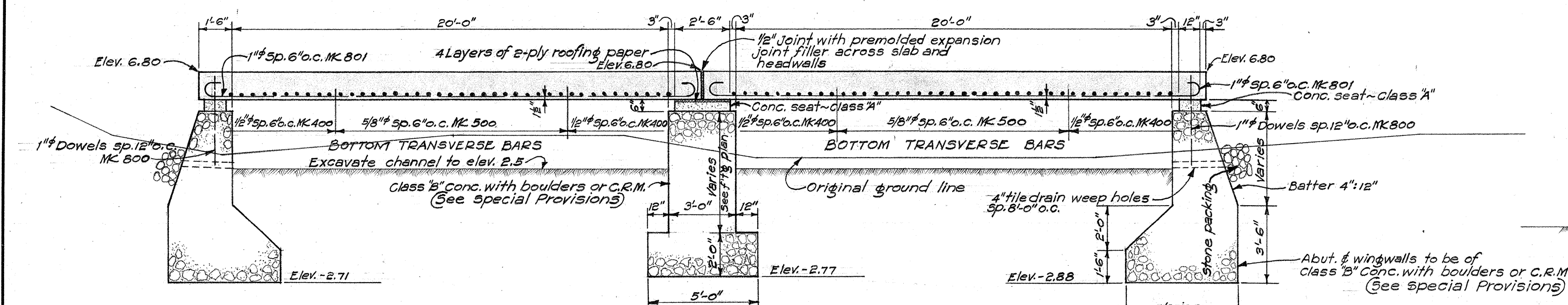
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 2
STA. 207+97.50 TO 208+20.50
EAST MOLOKAI ROAD F.A.S. 2A(1)



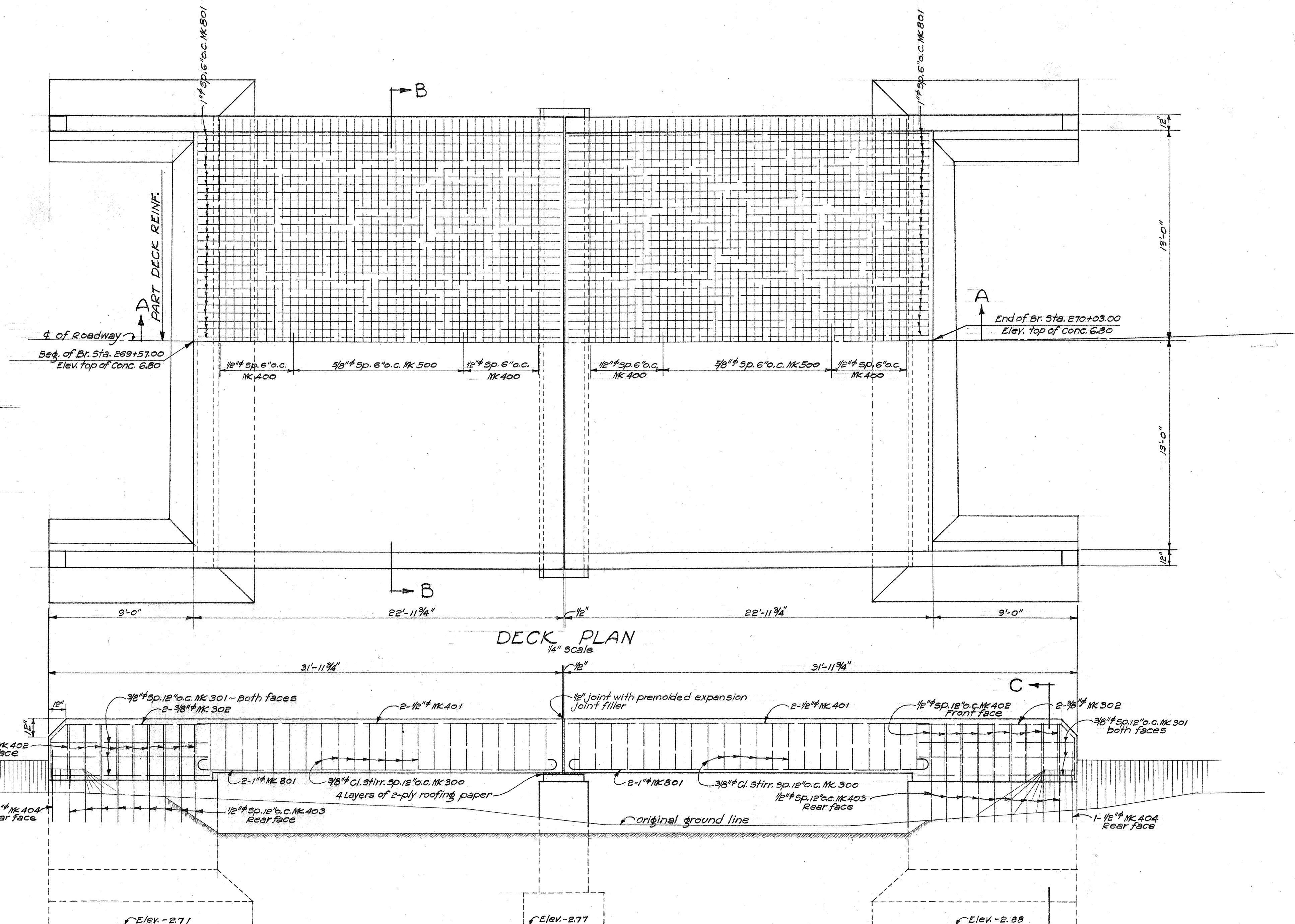
LAYOUT PLAN
Scale 1"=10'



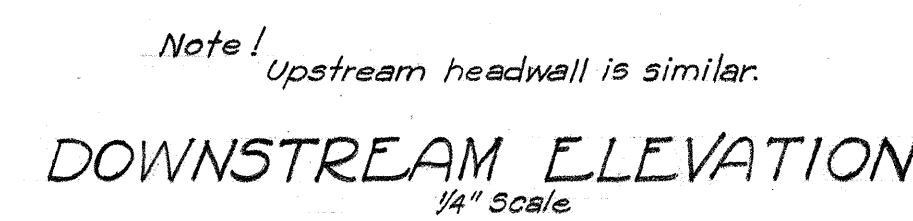
SECTION B-B
1/4" Scale



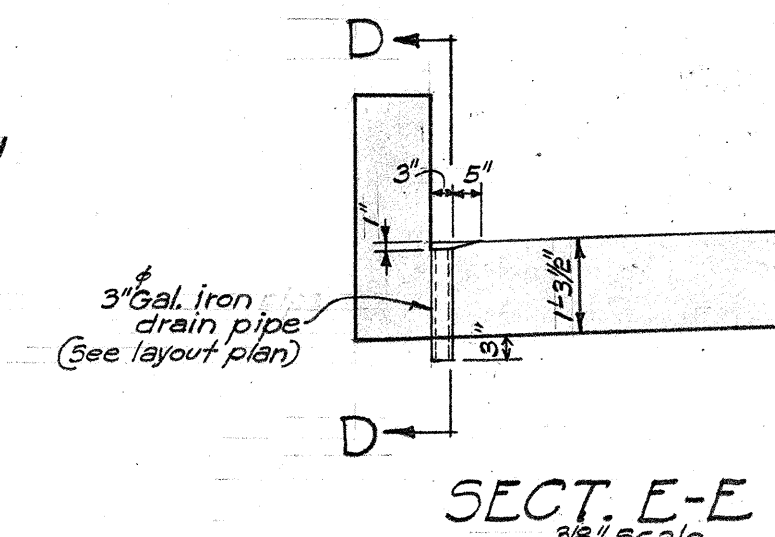
SECTION A-A
1/4" Scale



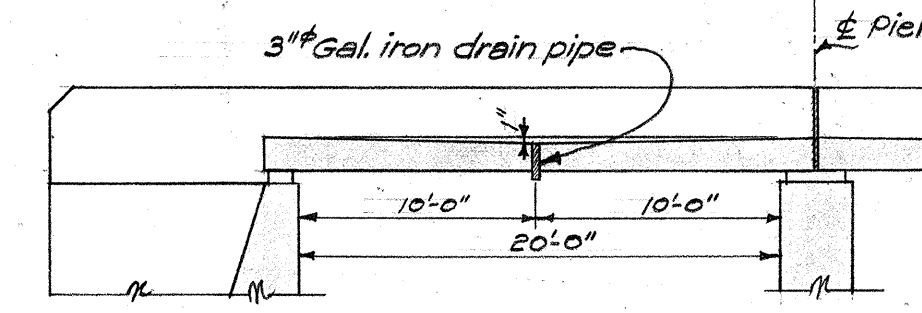
DECK PLAN
1/4" scale



SECTION C-C
1/4" scale



SECT. E-E

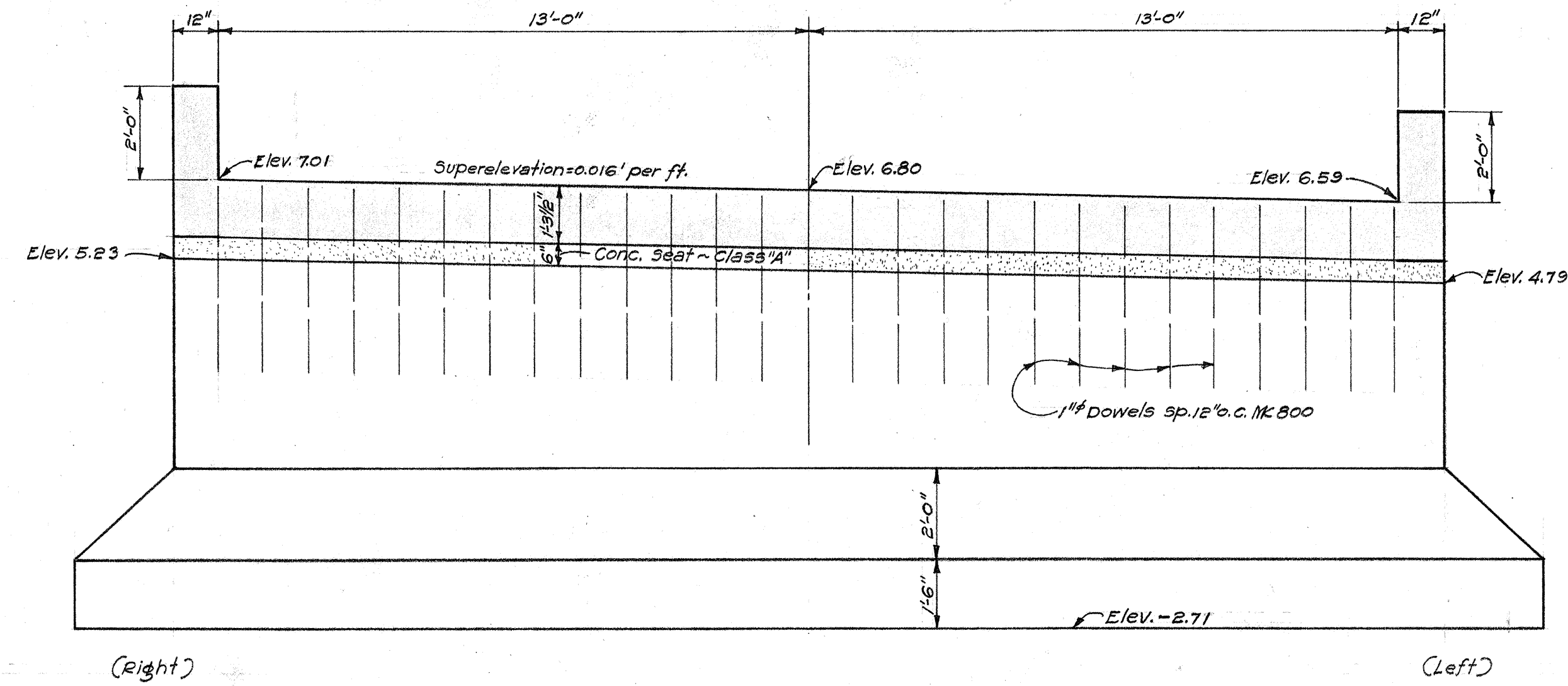


SECT. D-D
1/8" Scale

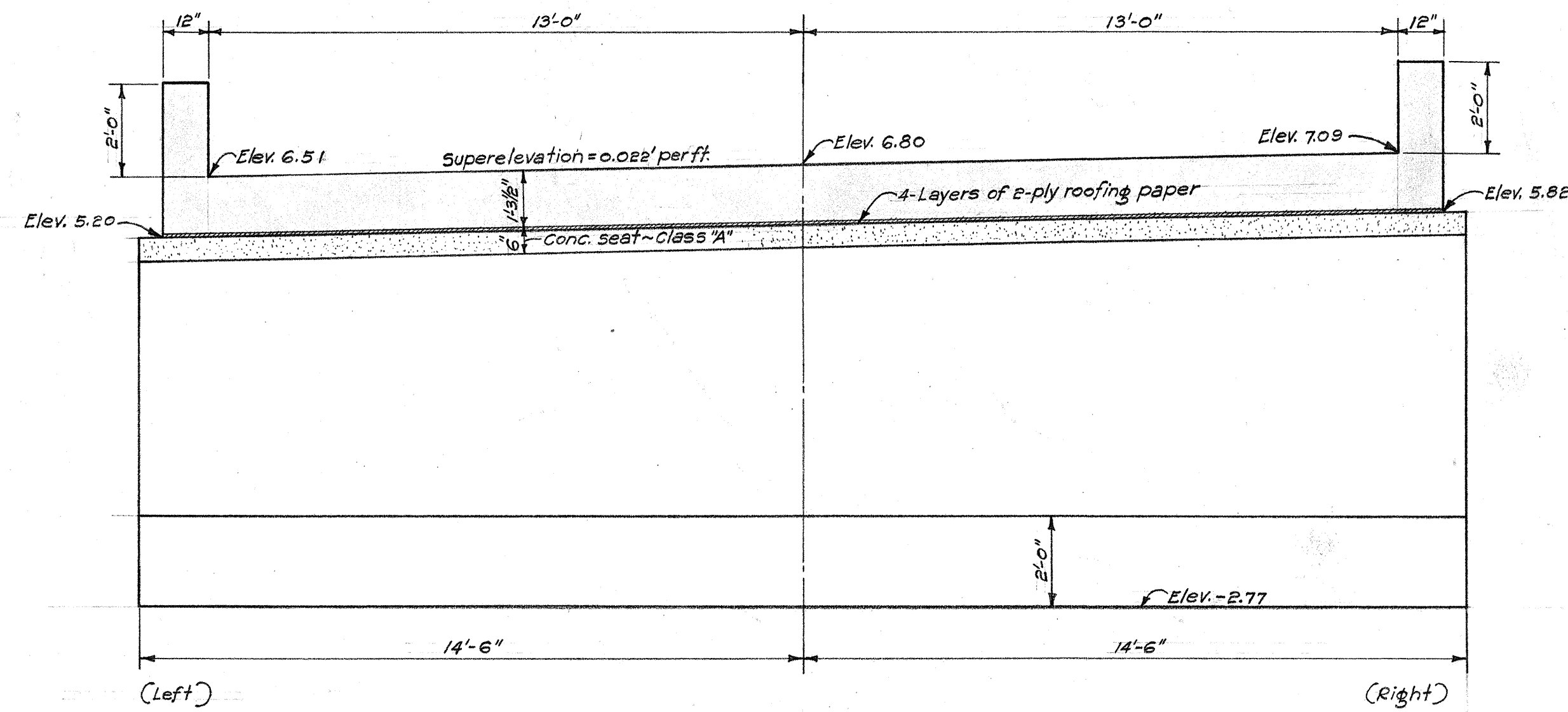
ESTIMATED QUANTITIES	
REINF. STEEL	10641 LBS
CLASS "A" CONC.	75.7 C.Y.
CLASS "B" CONC. WITH BOULDERS OR C.R.M.	114.5 C.Y.
STR. EXC.	179 C.Y.
CHANNEL EXC.	30 C.Y.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 3
STA. 269+57.00 To 270+03.00
EAST MOLOKAI ROAD F.A.S. 2A(1)

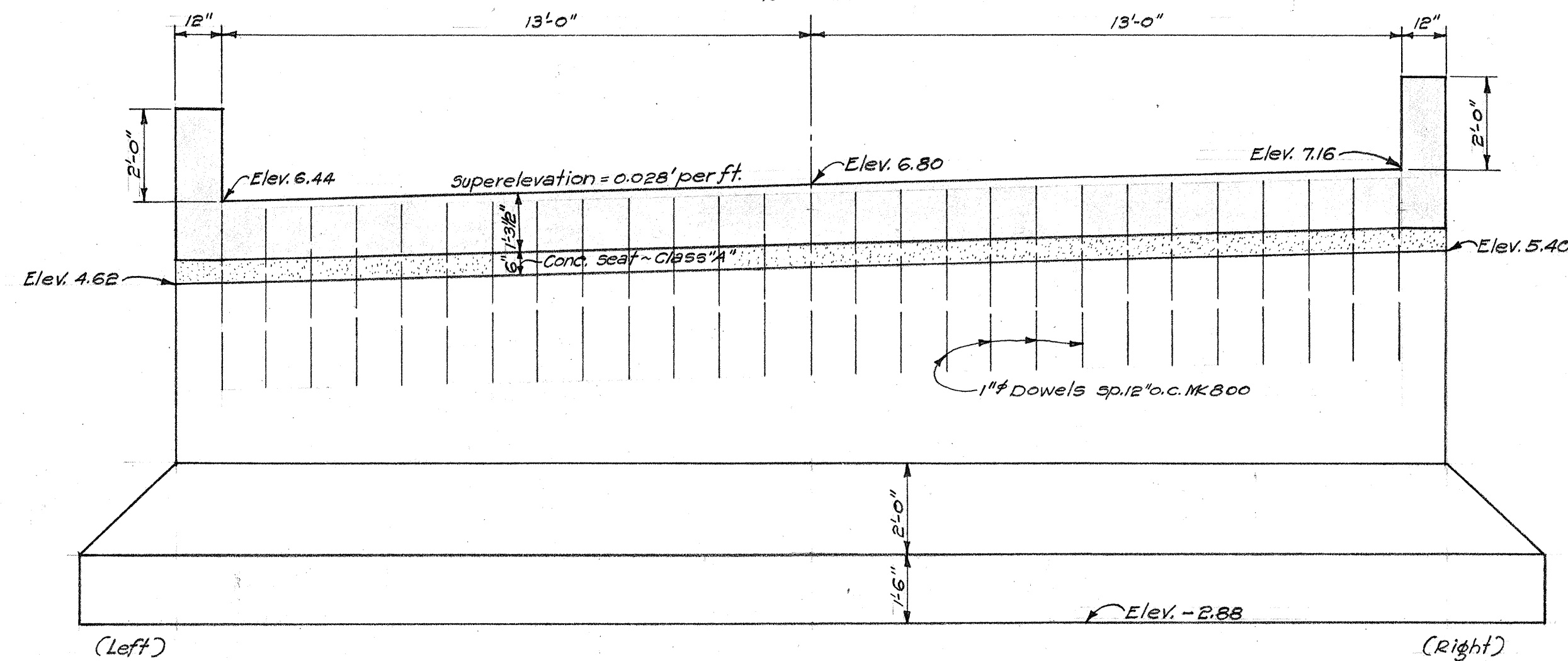
ORIGINAL PLAN	SURVEY PLOTTED BY <i>W. E. Bartels</i> DESIGNED BY <i>W. E. Bartels</i> DRAWN BY <i>P. Kang</i> TRACED BY <i>P. K.</i> QUANTITIES BY <i>P. K.</i> QUANTITIES CHECKED BY <i>T. Ting</i> CHECKED BY <i>W. E. B.</i>	DATE " <i>Sept. 1938</i> " " " " " " " " " " " "
NOTE BOOK		
No.		



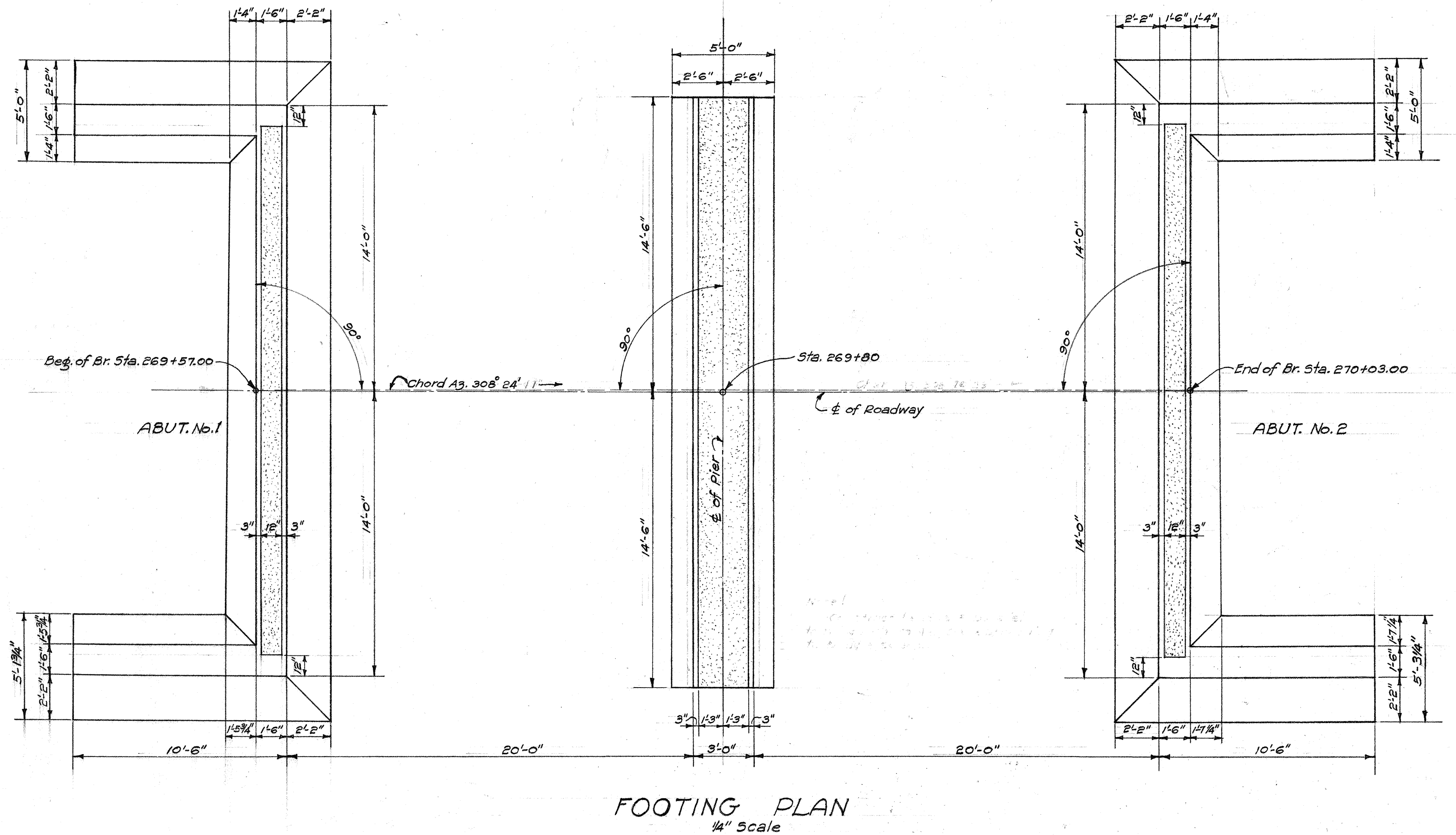
ABUTMENT No. 1
3/8" Scale



PIER ELEVATION
3/8" Scale



ABUTMENT No. 2
3/8" Scale



FOOTING PLAN
1/4" Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 3
STA. 269+57.00 TO 270+03.00
EAST MOLOKAI ROAD F.A.S. 2A(1)

SHEET No. 2 OF 2 SHEETS

4477.29

SURVEY PLOTTED BY: DATE: 8/1/31
DRAWN BY: H. E. KANG
CHECKED BY: H. E. KANG
ORIGINAL PLAN
NOTE BOOK
No.

STEEL SCHEDULE

FOR BRIDGES No.1, No.2, & No.3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F.A.S. 2A(1)	1935	30	65

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
800		BRIDGE No.1 deck	1"φ	24'-8"	27	1	27	666.09	2.67	177.8
803		"	1"φ	Var. AV. 25'-7"	12	2	24	613.92	"	163.9
804		"	1"φ	Var. AV. 19'-0"	12	2	24	456.0	"	121.7
400		"	1/2"φ	29'-11"	10	2	20	598.4	0.67	40.1
500		"	5/8"φ	29'-11"	21	1	21	628.32	1.04	65.3
801		Abut. No.1	1"φ	4'-0"	28	1	28	112.0	2.67	29.9
600		Abut. No.2	3/4"φ	3'-0"	27	1	27	81.0	1.50	12.1
401		Headwalls	1/2"φ	25'-0"	2	2	4	100.0	0.67	6.7
300		"	3/8"φ	7'-10"	25	2	50	391.5	0.38	14.9
802		"	1"φ	27'-3"	2	2	4	109.0	2.67	29.1
301		"	3/8"φ	9'-6"	6	2	12	114.0	0.38	4.3
404		"	1/2"φ	3'-6"	8	4	32	112.0	0.67	7.5
302		"	3/8"φ	12'-3"	2	2	4	49.0	0.38	1.9
402		"	1/2"φ	6'-0"	8	4	32	192.0	0.67	12.9
403		"	1/2"φ	4'-0"	1	4	4	16.0	0.67	1.1
305		"	3/8"φ	8'-6"	6	2	12	103.2	0.38	3.9
304		"	3/8"φ	11'-3"	2	2	4	45.0	0.38	1.7
GRAND TOTAL BRIDGE No.1 6948*										

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
800		BRIDGE No.2 deck	1"φ	24'-8"	52	1	52	1282.84	2.67	342.5
400		"	1/2"φ	27'-6"	10	2	20	550.0	0.67	36.8
500		"	5/8"φ	27'-6"	21	1	21	577.5	1.04	60.1
800	See previous sketch	headwalls	1"φ	24'-8"	2	2	4	98.68	2.67	26.3
402		"	1/2"φ	22'-6"	2	2	4	90.0	0.67	6.0
302		"	3/8"φ	7'-4"	23	2	46	337.18	0.38	12.8
305		"	"	12'-6"	2	2	4	50.0	0.38	1.9
306		"	"	9'-9"	6	2	12	117.0	0.38	4.4
401		"	1/2"φ	3'-3"	8	2	34	110.5	0.67	7.4
404		"	"	6'-0"	8	2	34	204.0	0.67	13.7
405		"	"	4'-3"	1	4	4	17.0	0.67	1.1
303		"	3/8"φ	11'-2"	2	2	4	44.68	0.38	1.7
301		"	"	8'-6"	6	2	12	102.0	0.38	3.9
801		Abut. No.1	1"φ	4'-0"	27	1	27	108.0	2.67	28.8
GRAND TOTAL BRIDGE No.2 5474*										

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
801		BRIDGE No.3 deck	1"φ	24'-8"	52	2	104	2565.68	2.67	685.0
400		"	1/2"φ	27'-6"	10	4	40	1100.0	0.67	73.7
500		"	5/8"φ	27'-6"	21	2	42	1155.0	1.04	120.1
801	See previous sketch	headwalls	1"φ	24'-8"	2	4	8	197.36	2.67	52.7
401		"	1/2"φ	22'-6"	2	4	8	180.0	0.67	12.1
300		"	3/8"φ	7'-10"	22	4	88	689.04	0.38	26.2
302		"	3/8"φ	12'-3"	2	4	8	98.0	0.38	3.7
301		"	3/8"φ	9'-9"	6	4	24	234.0	0.38	8.9
402		"	1/2"φ	3'-6"	9	4	36	126.0	0.67	8.4
403		"	1/2"φ	6'-0"	9	4	36	216.0	0.67	14.5
404		"	1/2"φ	4'-3"	1	4	4	17.0	0.67	1.1
800		Abut. No.1, & No.2	1"φ	4'-0"	27	2	54	216.0	2.67	57.7
GRAND TOTAL BRIDGE No.3 10641*										

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to inside of stirrups; all other dimensions are figured to center line of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGES No.1, No.2, & No.3

EAST MOLOKAI ROAD

F.A.S. 2A (1)

SHEET No. OF SHEETS

4477.30

PLAN
NOTE BOOK
No.
DRAWN BY: P. K. King
CHECKED BY: P. K. King
QUANTITIES BY: P. K. King
CHECKED BY: P. K. King
DATE: Oct. 1935