

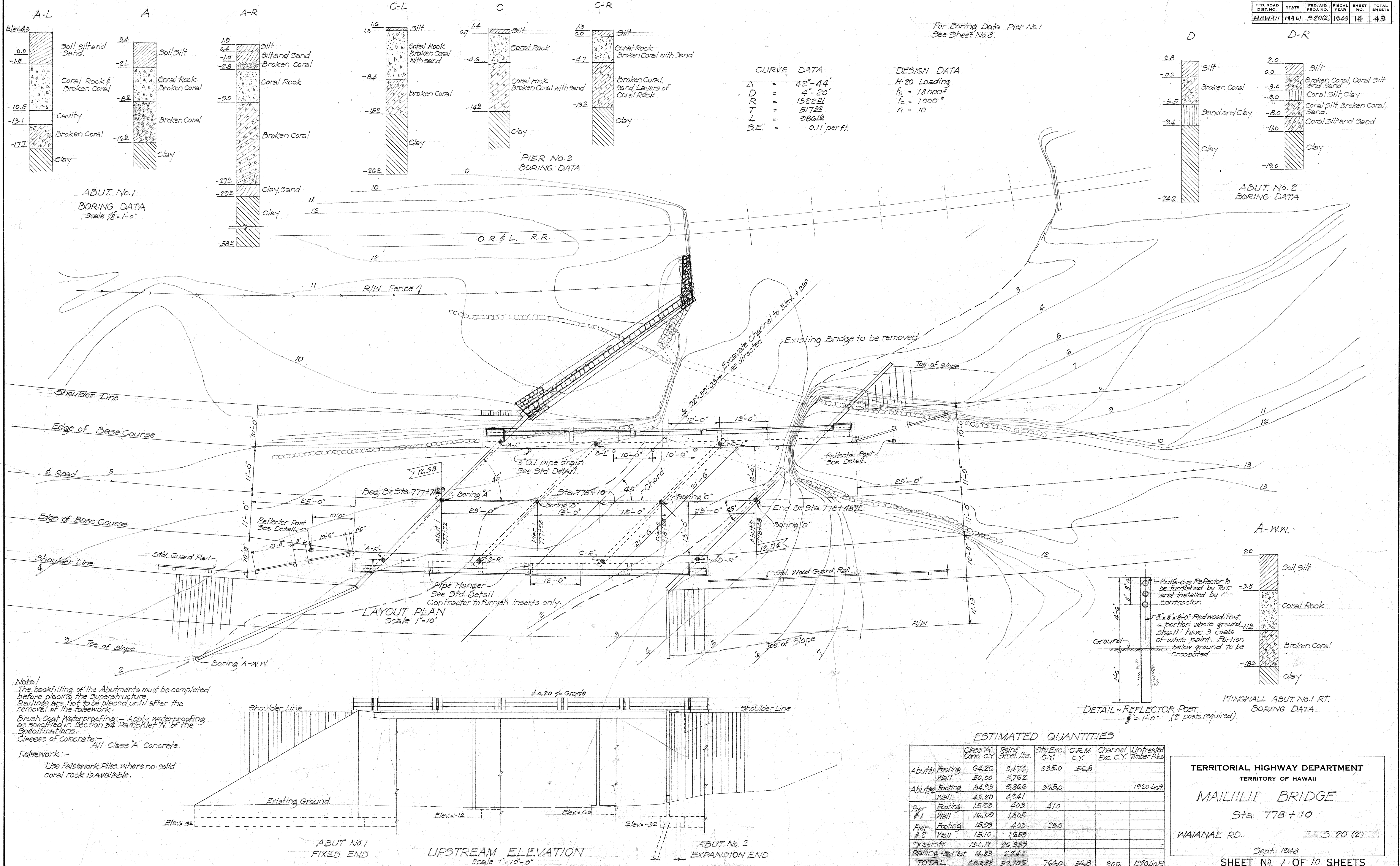
For Boring Data Pier No.1
See Sheet No.8.

CURVE DATA

Δ = 42°-44'
D = 4'-20"
R = 1322.21
T = 517.23
L = 286.16
S.E. = 0.11' per ft.

DESIGN DATA

H-20 Loading.
f_s = 18,000#
f_c = 1,000#
n = 10



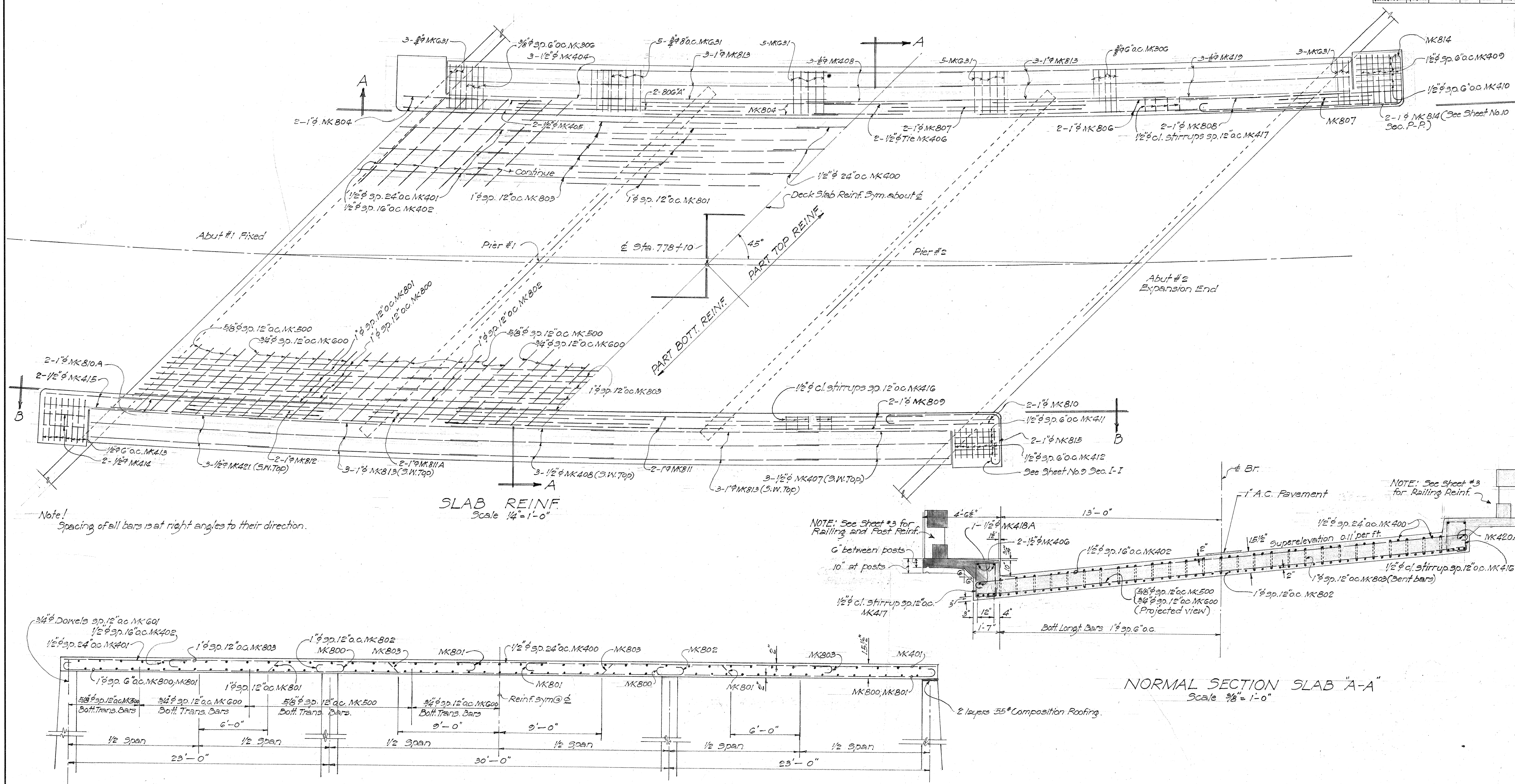
Note:
The backfilling of the Abutments must be completed before placing the superstructure.
Railings are not to be placed until after the removal of the falsework.
Brush Coat Waterproofing - Apply waterproofing as specified in Section 34 Pamphlet N of the Specifications.
Classes of Concrete - All Class "A" Concrete.
Falsework - Use Falsework Piles where no solid coral rock is available.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAILILILI BRIDGE
Sta. 778 + 10
WAIANAE RD.
S. 20 (2)

Sept. 1948
SHEET No. 1 OF 10 SHEETS

5096.14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT SHE
HAWAII	HAW	320(2)	1949	15	4

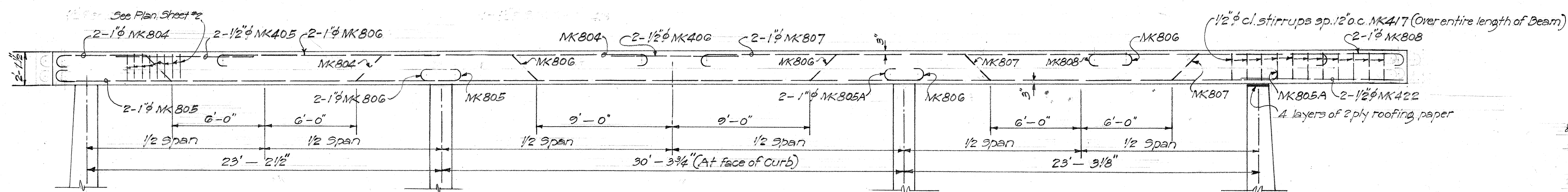


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAILILI'I BRIDGE
Sta. 778 + 10
WAI'ANAE RD. S 20' (2)
Sept. 1948
SHEET No 2 OF 10 SHEETS

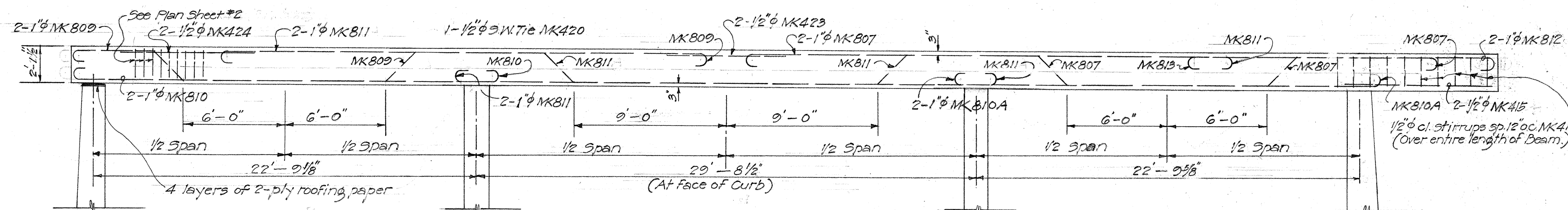
SHEET No 2 OF 70 SHEETS

5096.15

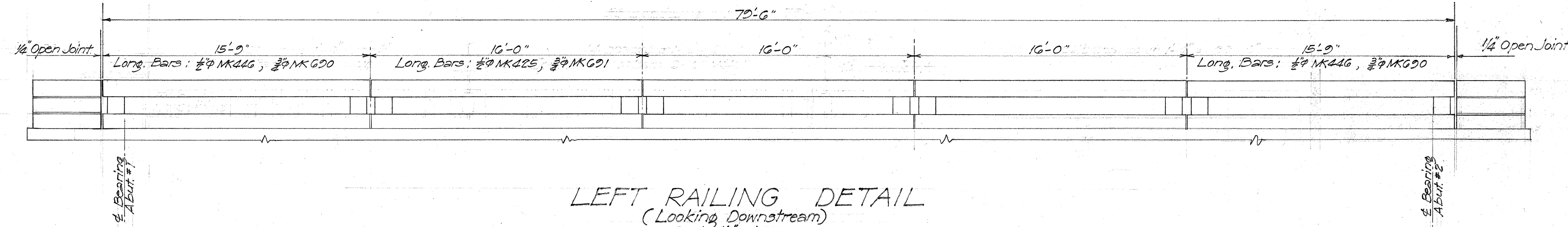
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	520 (2)	1948	16	43



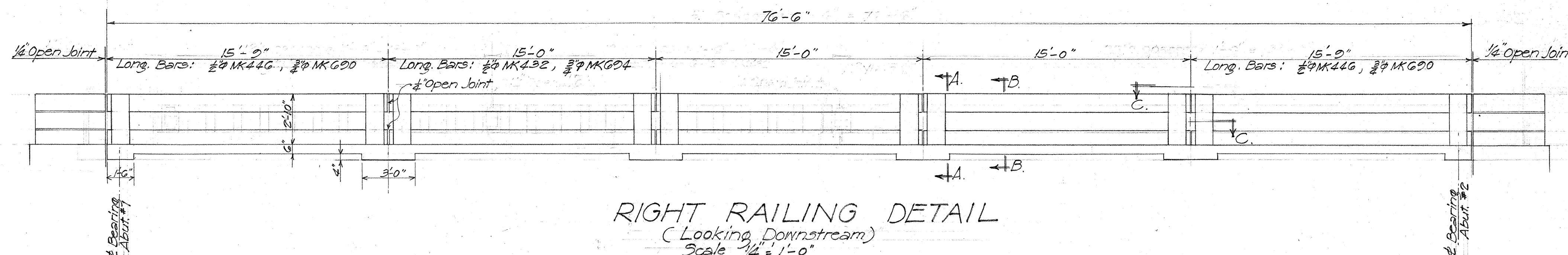
LEFT SIDEWALK BEAM REINF. SEC. A-A
Scale 1/4" = 1'-0"



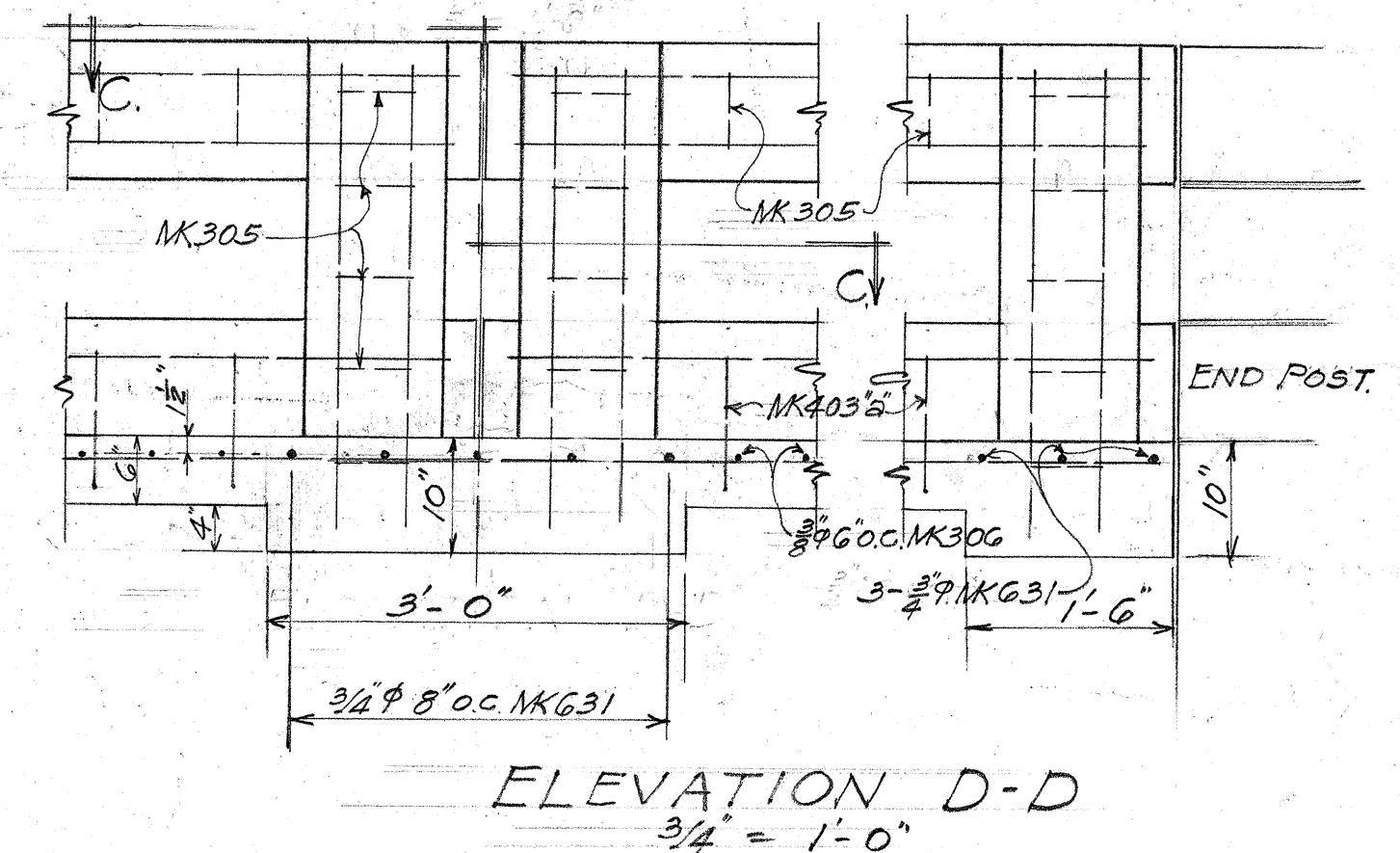
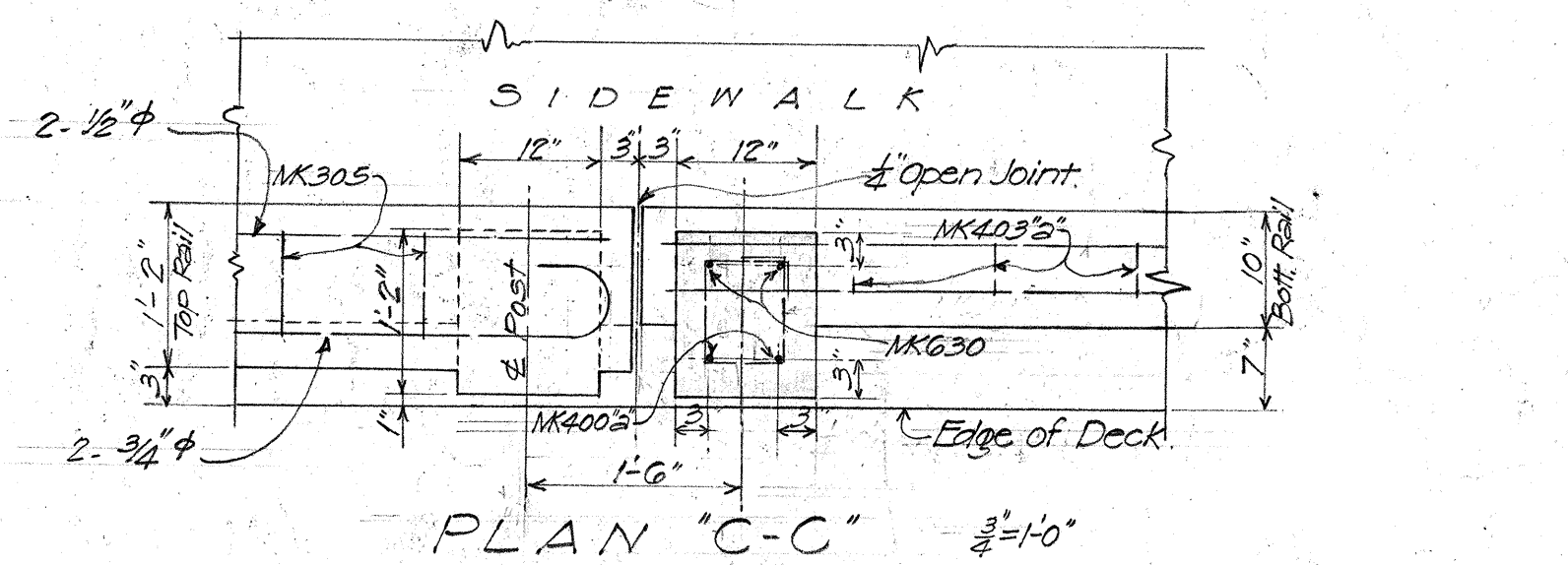
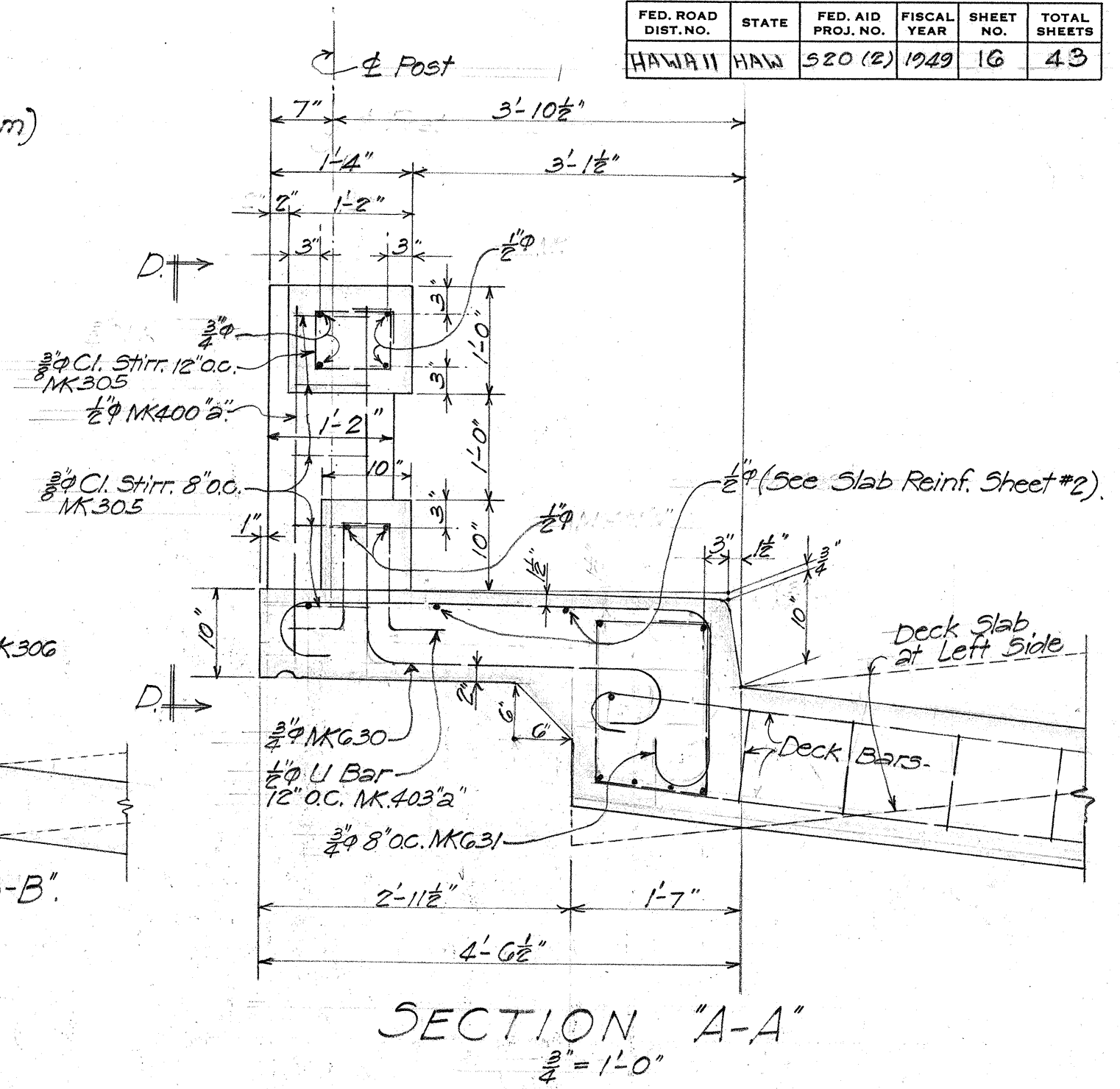
RIGHT SIDEWALK BEAM REINF. SEC. B-B
Scale 1/4" = 1'-0"



LEFT RAILING DETAIL
(Looking Downstream)
Scale 1/4" = 1'-0"

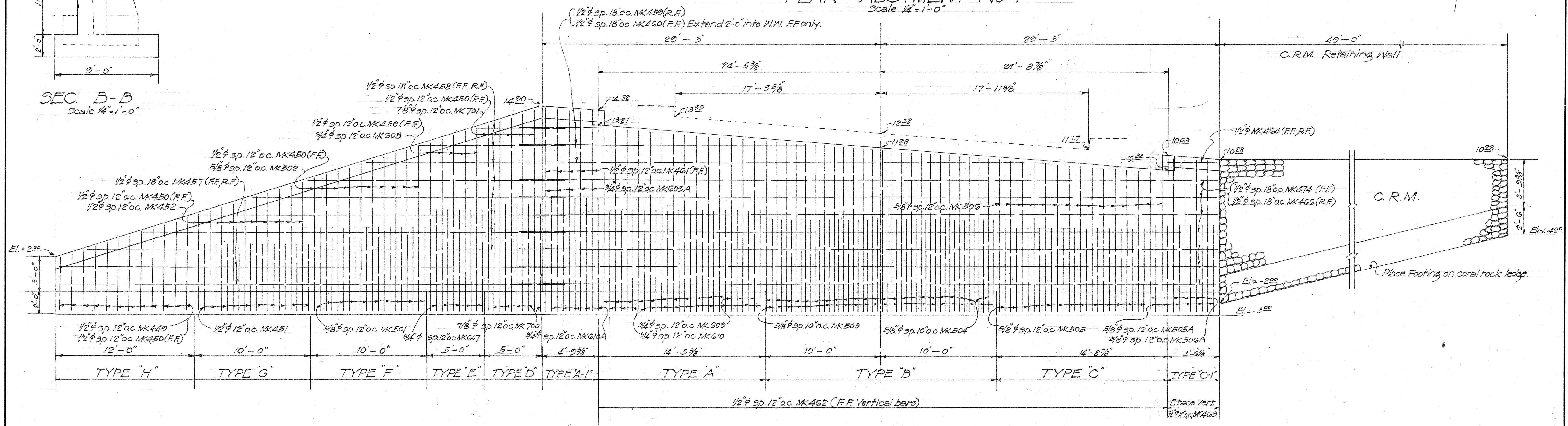
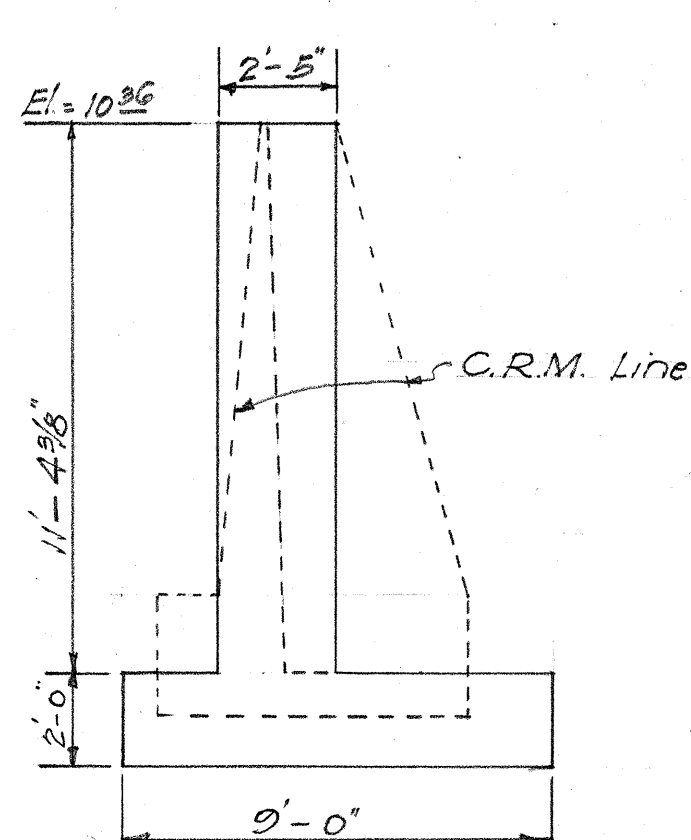
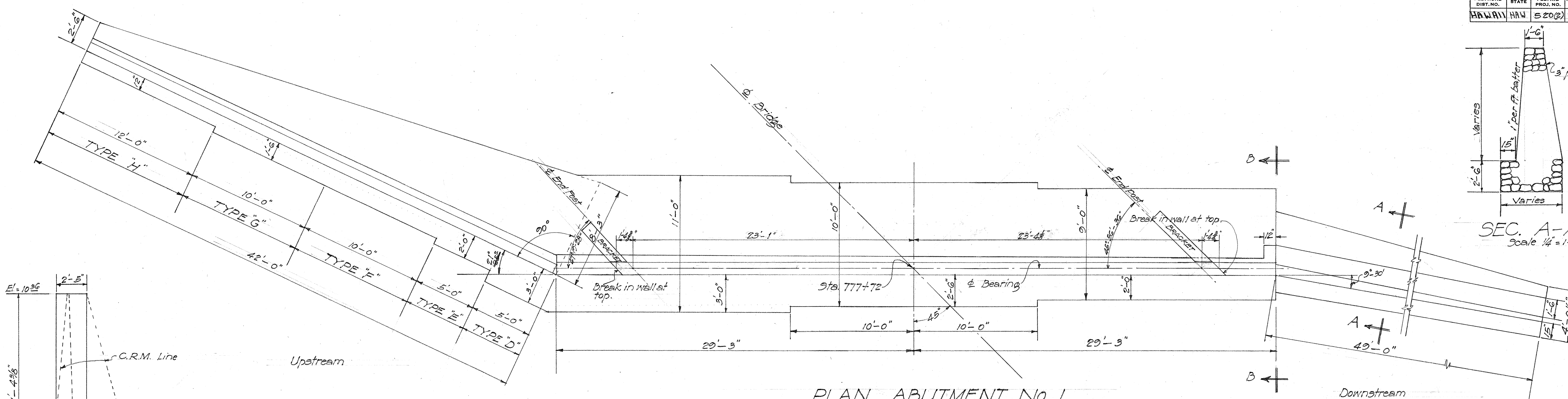
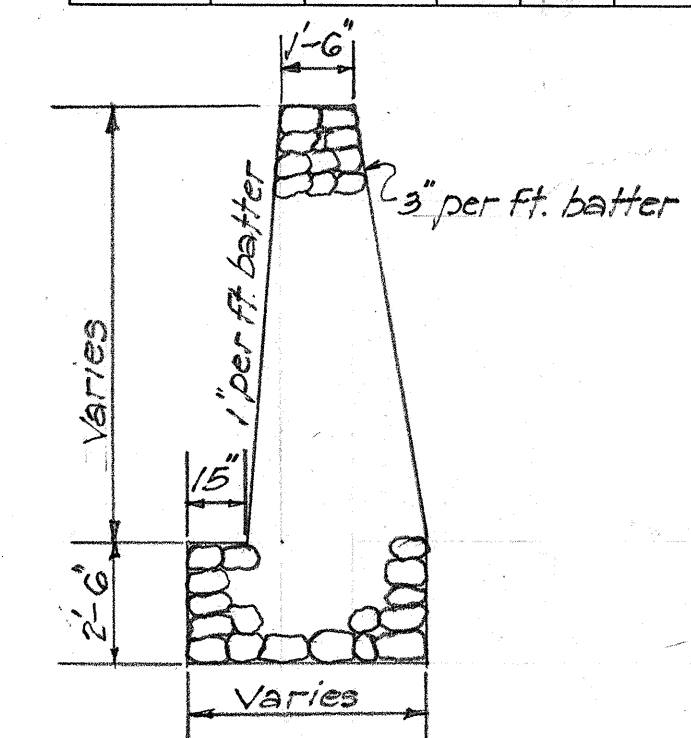


RIGHT RAILING DETAIL
(Looking Downstream)
Scale 1/4" = 1'-0"



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAILILILI BRIDGE
Sta. 778 + 10
WAIANAE RD.
Sept. 1948
SHEET No. 3 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HI	520(2)	1949	17	43



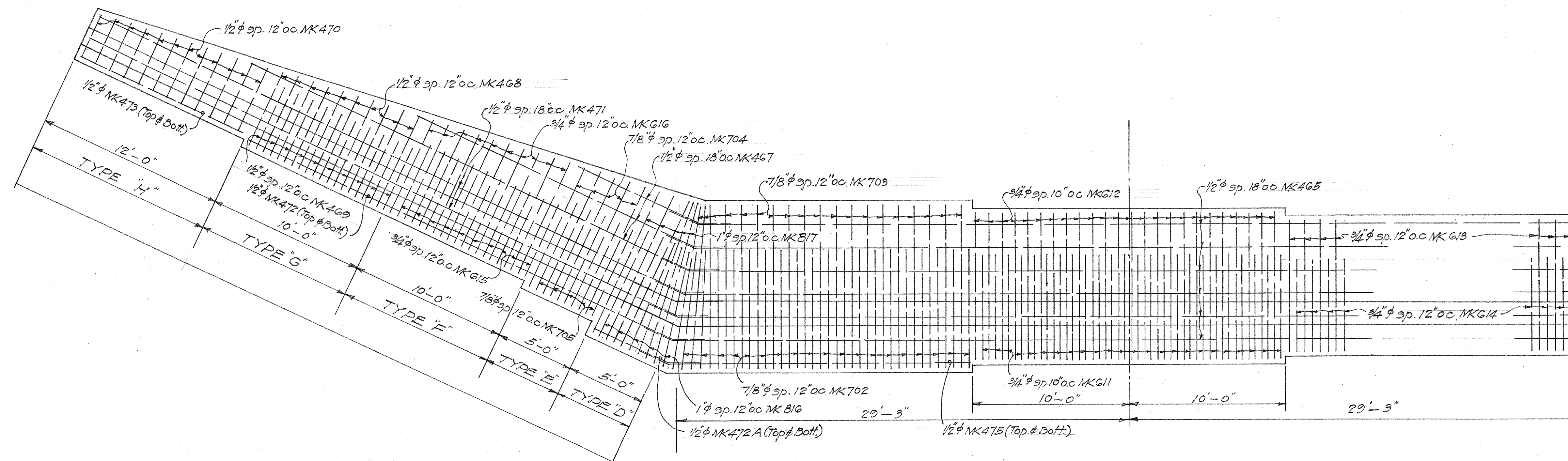
ELEVATION ABUTMENT No. 1
Scale 1/4" = 1'-0"
(Looking against stationing)

NOTE:
All elevations and distances of Abutment refer to ϕ Bearing.
F.F. = Front Face
R.F. = Rear Face

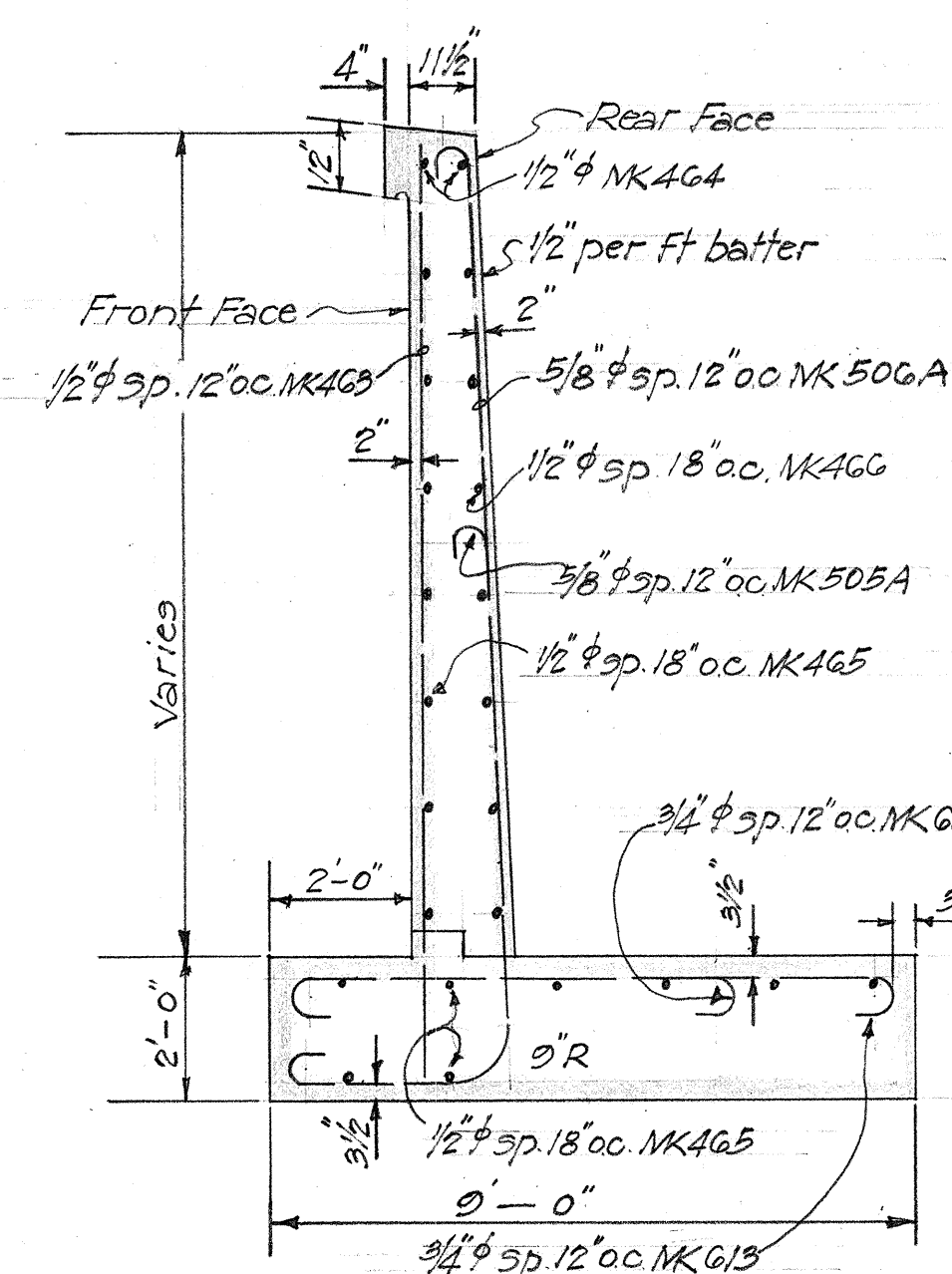
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAILILIE BRIDGE
Sta. 778+10
WAIANAE RD.
Sept. 1948
SHEET No. 4 OF 10-SHEETS

DESIGNED BY: J. J. ...
DRAWN BY: J. J. ...
CHECKED BY: J. J. ...
ORIGINAL PLAN
NOTE BOOK
No.

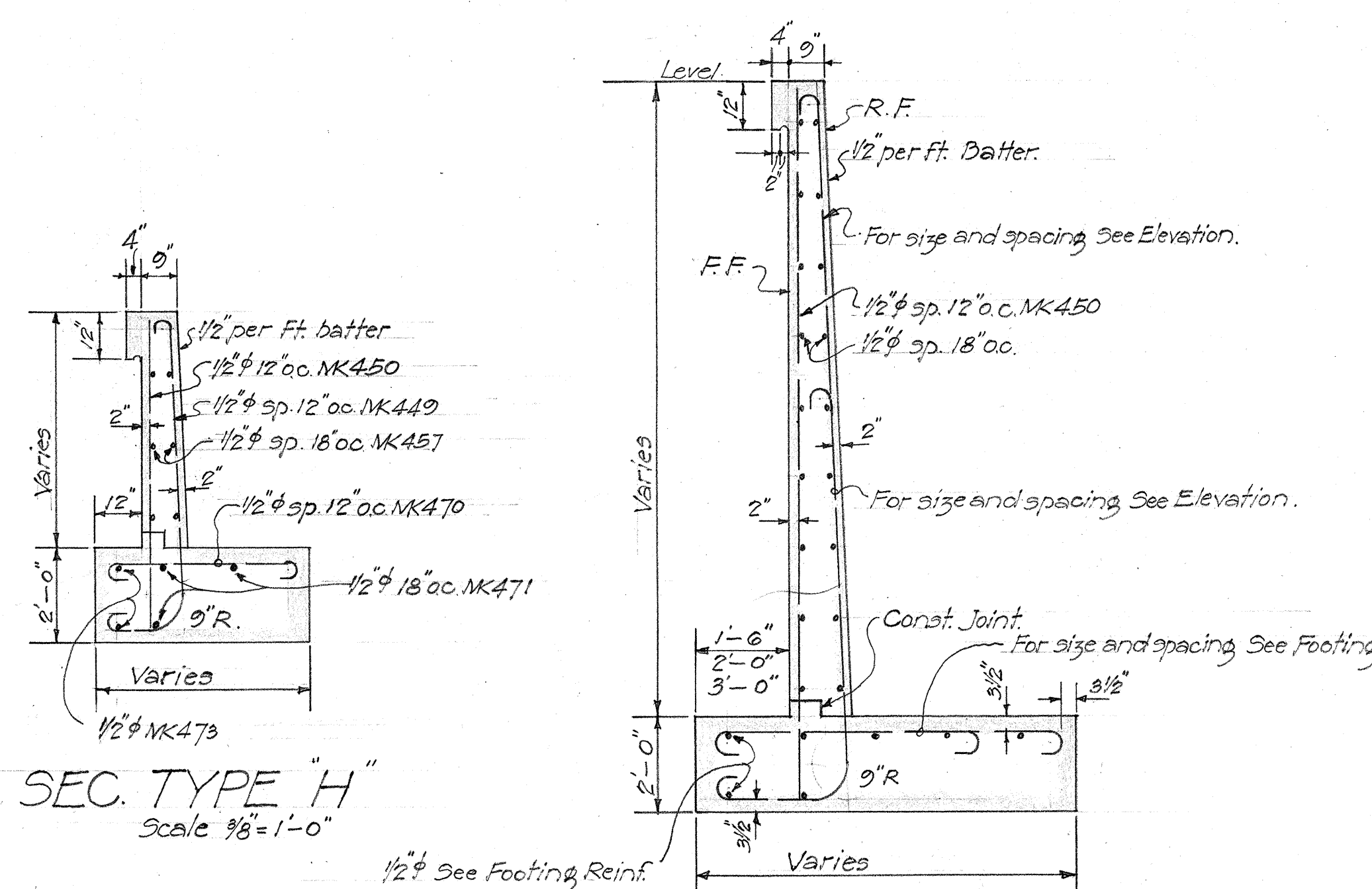
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	520(2)	1949	18	45



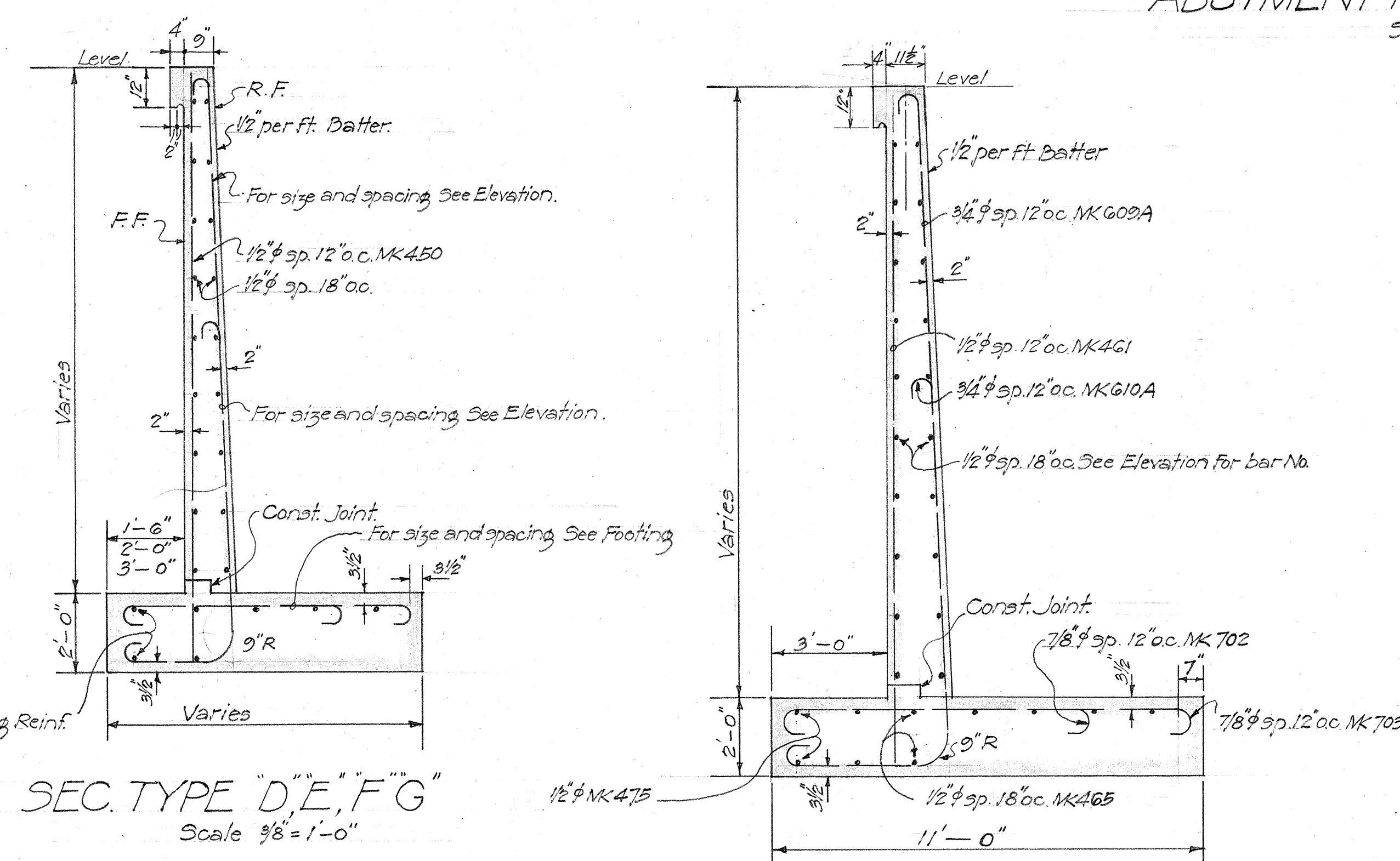
ABUTMENT No.1 FOOTING REINF.
Scale 1/4" = 1'-0"



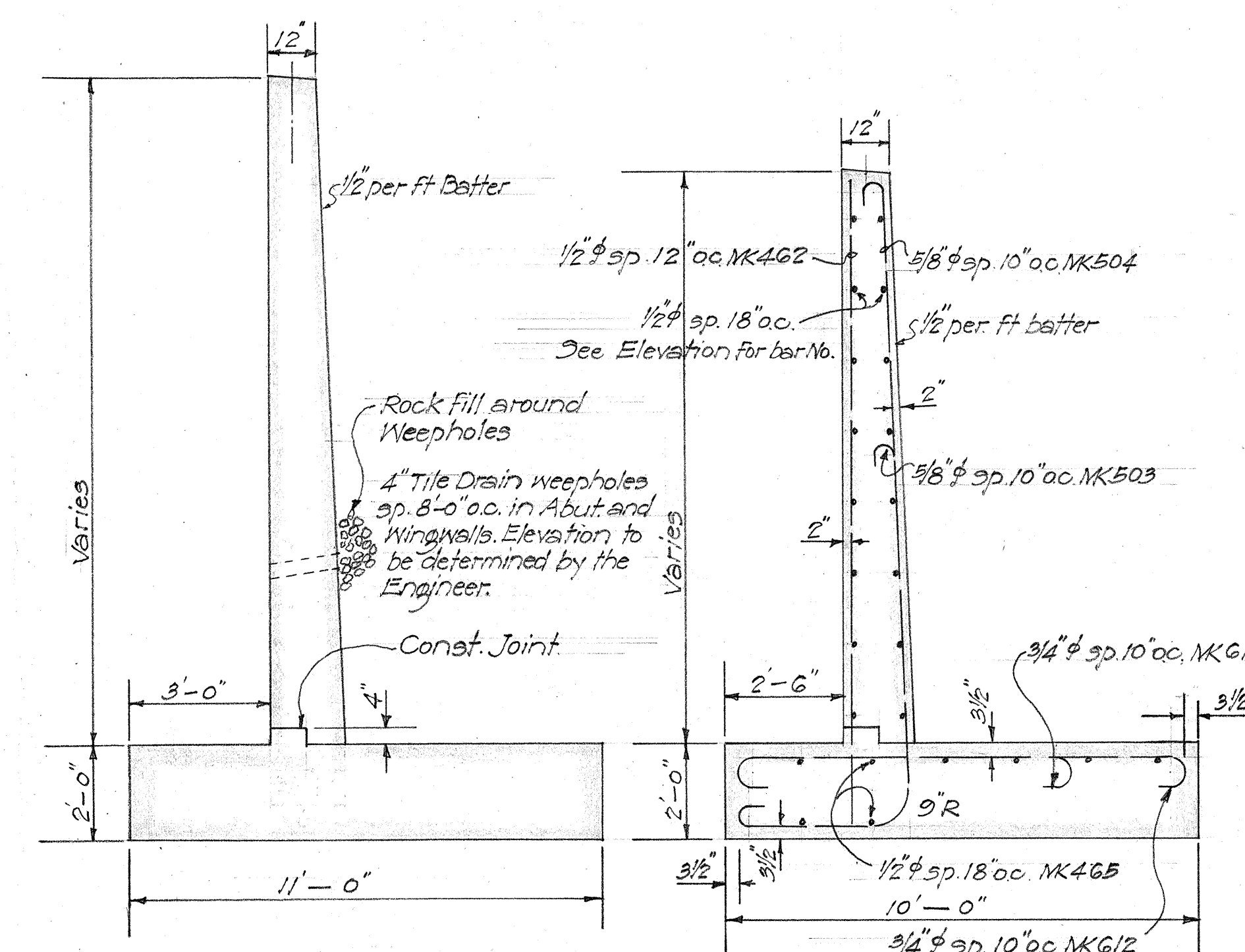
SEC. TYPE 'C-1'
Scale $\frac{3}{8}" = 1'-0"$



SEC. TYPE "H"
Scale $\frac{3}{8}'' = 1'-0''$

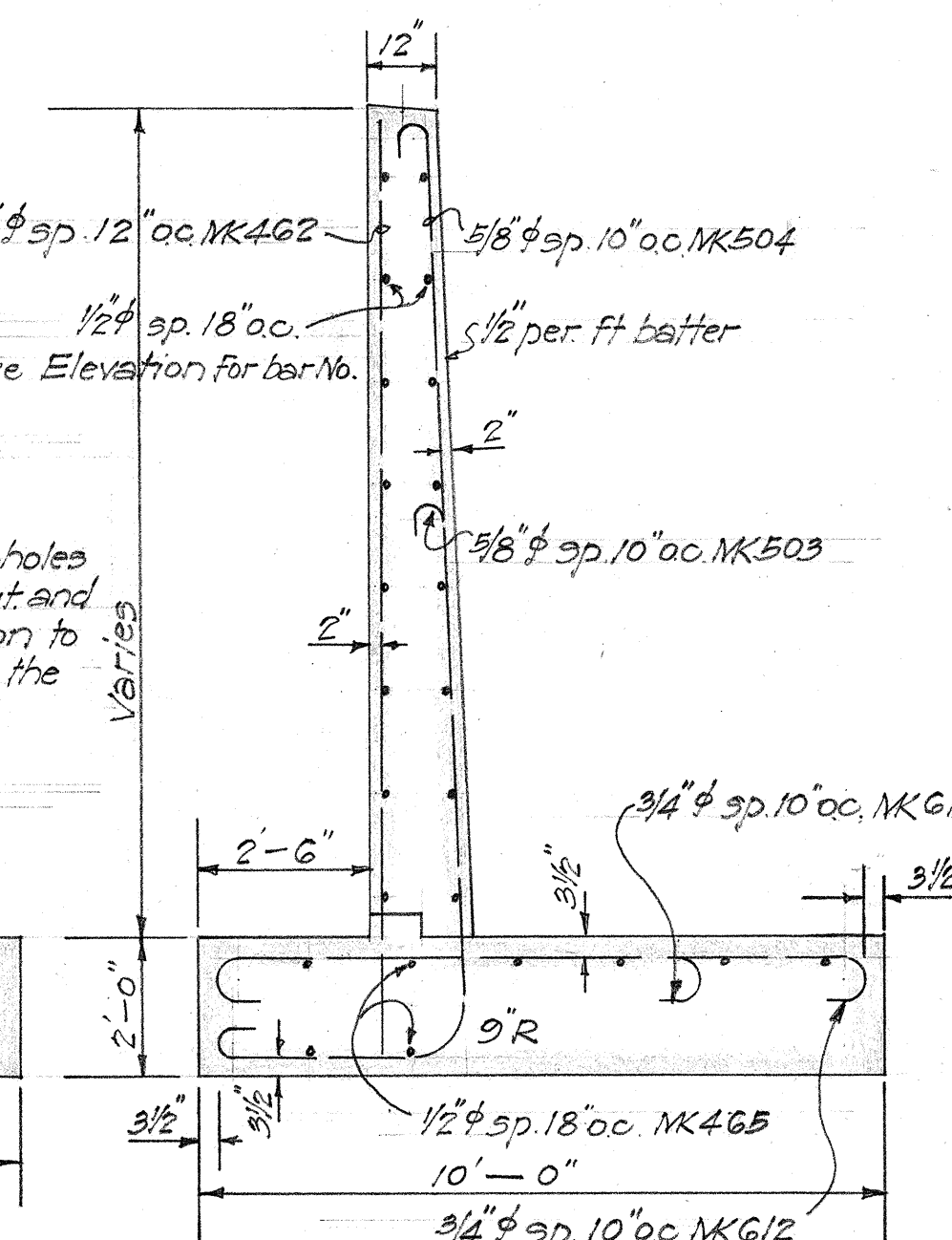


SEC. TYPE "D" "E" "F" "G"
Scale 3/8" = 1'-0"

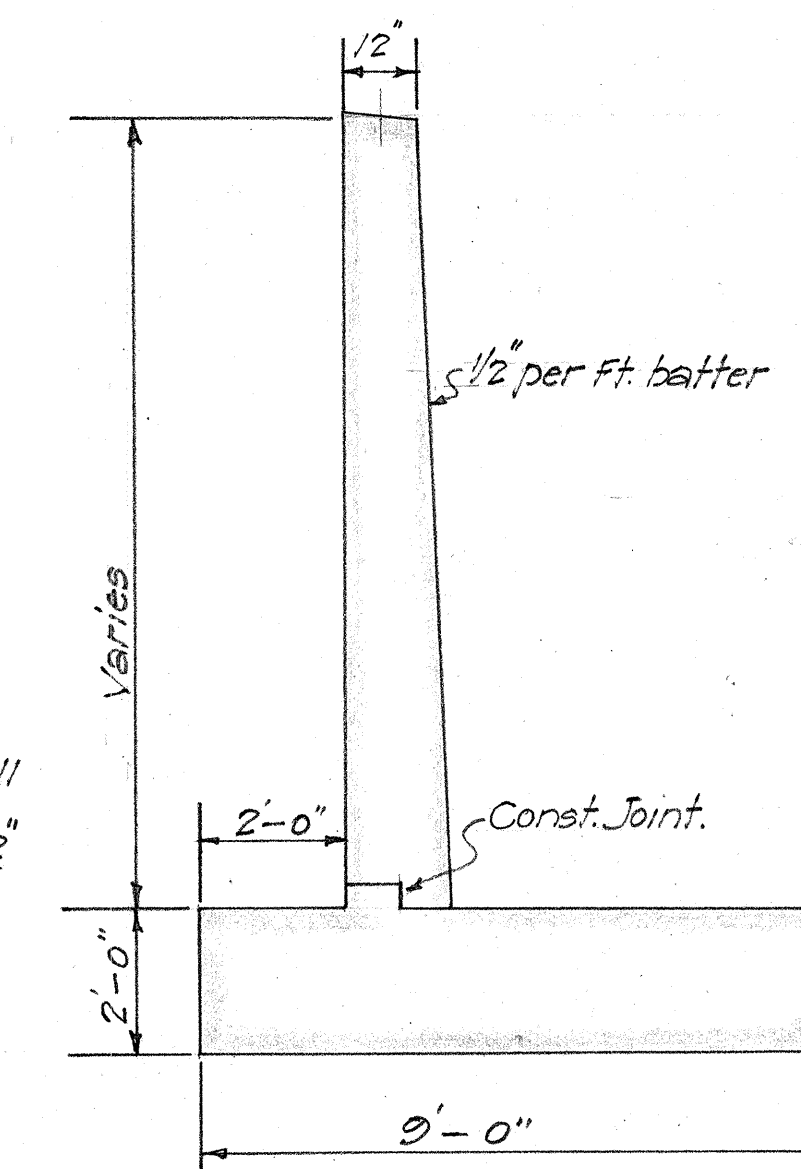


SEC. TYPE "A"
Scale 3/8" = 1'-0"

Reinf. similar to Type "A-1". For bar No. See Elevation and Footing Reinf.

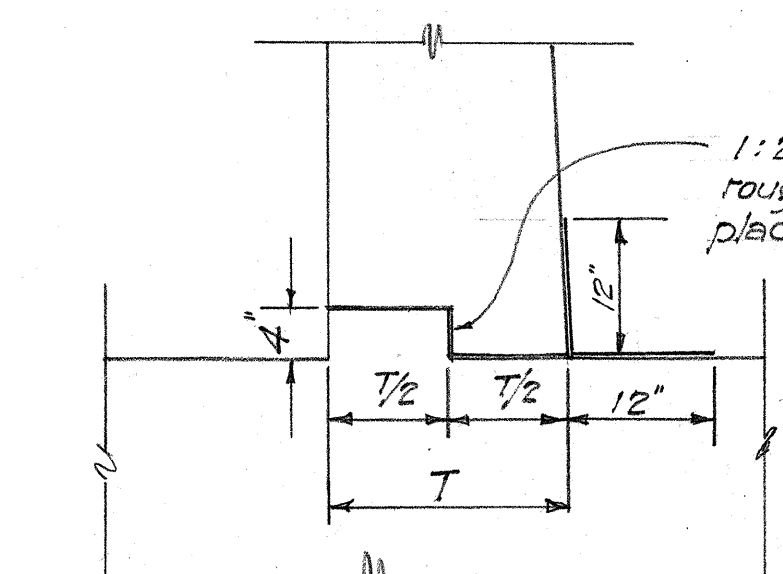


SEC. TYPE "B"
Scale 3/8" = 1'-0"



SEC. TYPE "C"
Scale $\frac{3}{8}" = 1'-0"$

Reinf. similar to Type "C-1". For bar No.
See Elevation and Footing Reinf.



CONST. JOINT DETAIL

METHOD OF APPLYING CONST. JOINT WATERPROOFING

1. Mop surface 18" either side of joint with asphalt 85-100 penetration applied at 200° F.
2. Apply one layer of 2-ply roofing paper lapping 12" either side of joint to hot asphalt.
3. Mop entire surface with a thick coat of hot asphalt.

ORIGINAL PLAN	SURVEY PLOTTED BY.....	DATE.....
	DESIGNED BY.....	".....
	DRAWN BY.....	".....
	TRACED BY.....	".....
	QUANTITIES BY.....	".....
	QUANTITIES CHECKED BY.....	".....
	CHECKED BY.....	".....

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAILING BRIDGE

Sta. 778 + 10

WAIANAE RD.

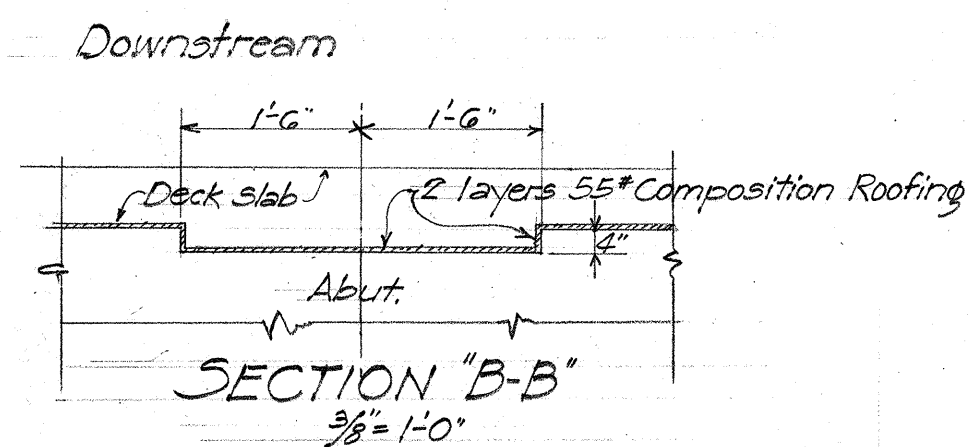
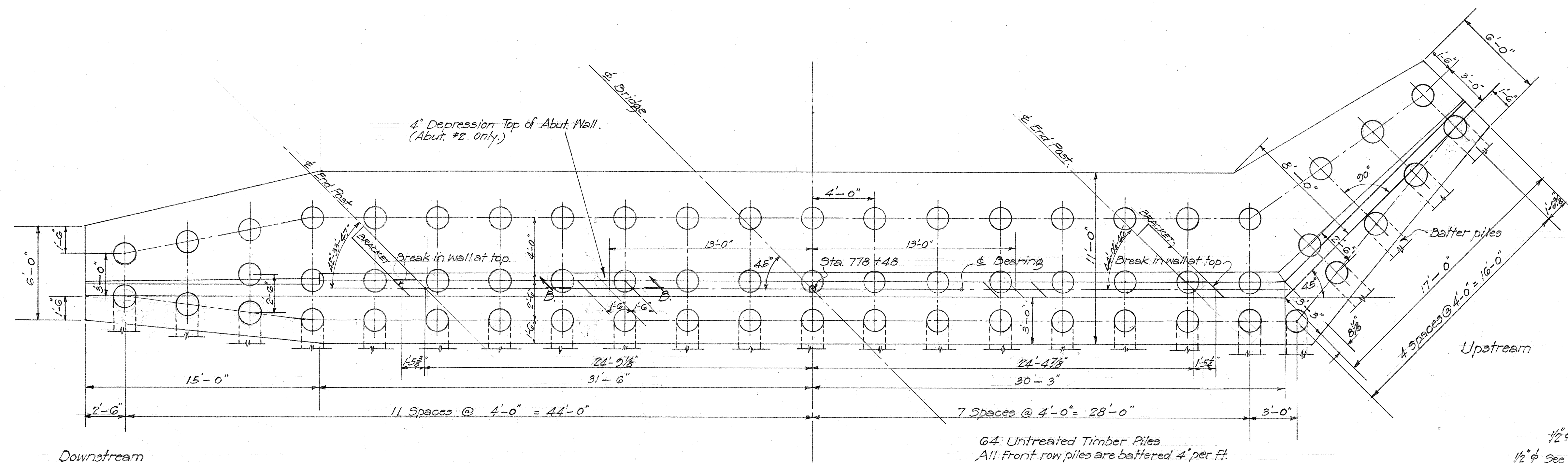
FAS 20 (2) 15 (2)

Sept 1948

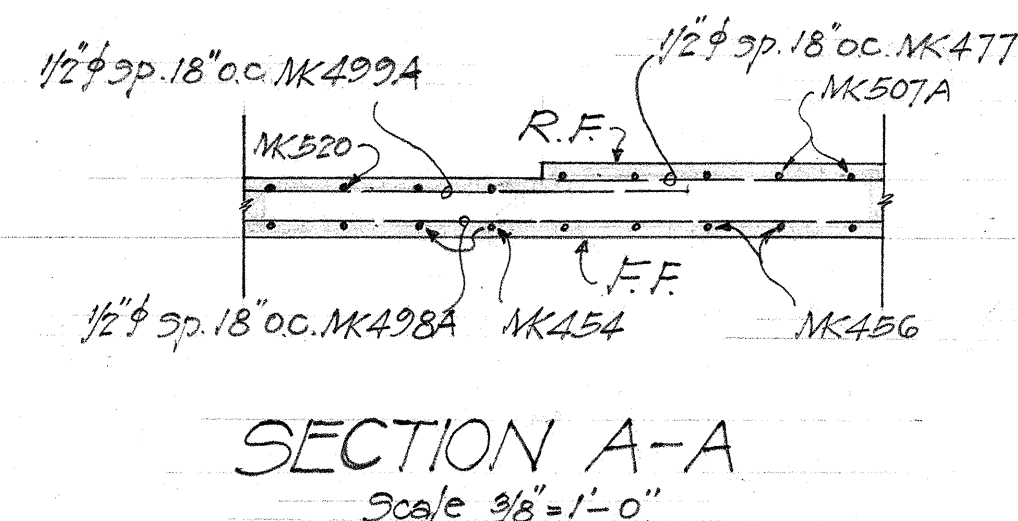
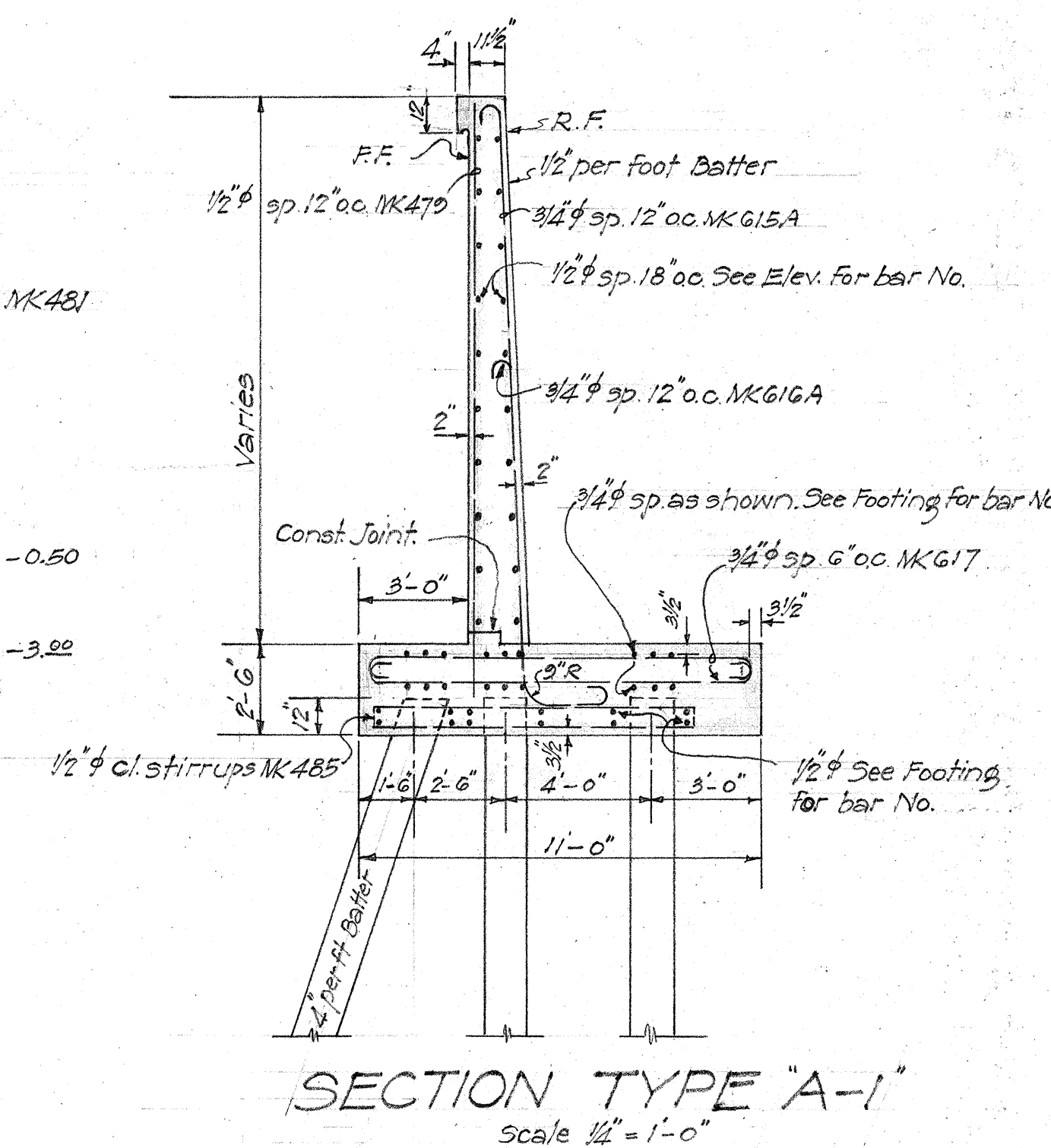
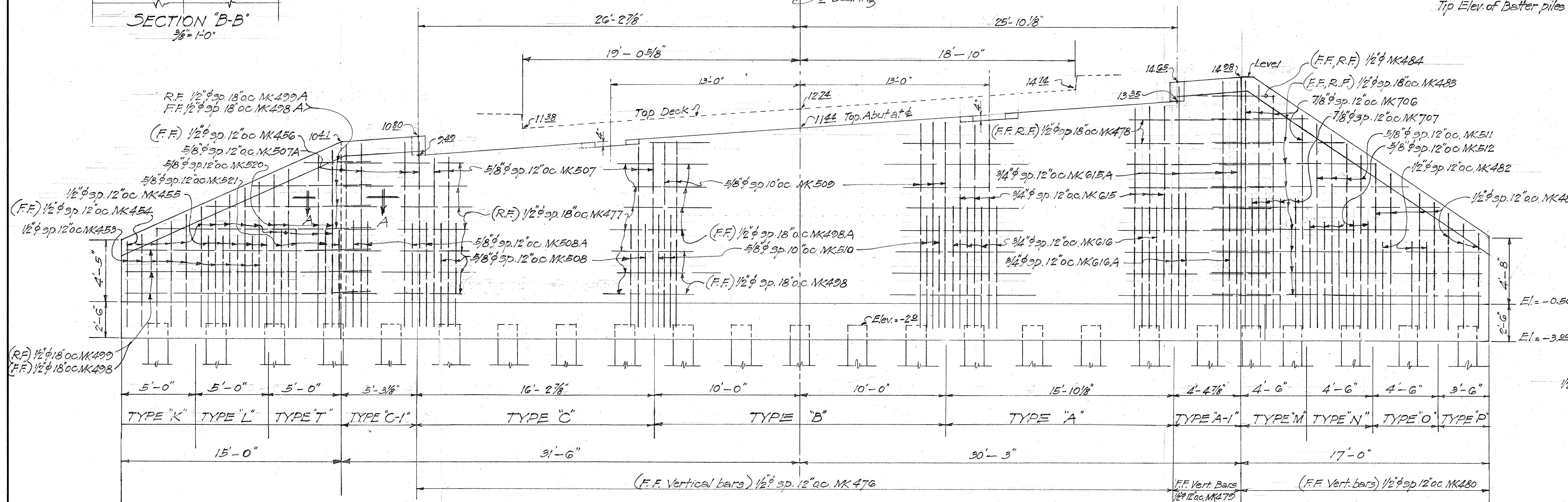
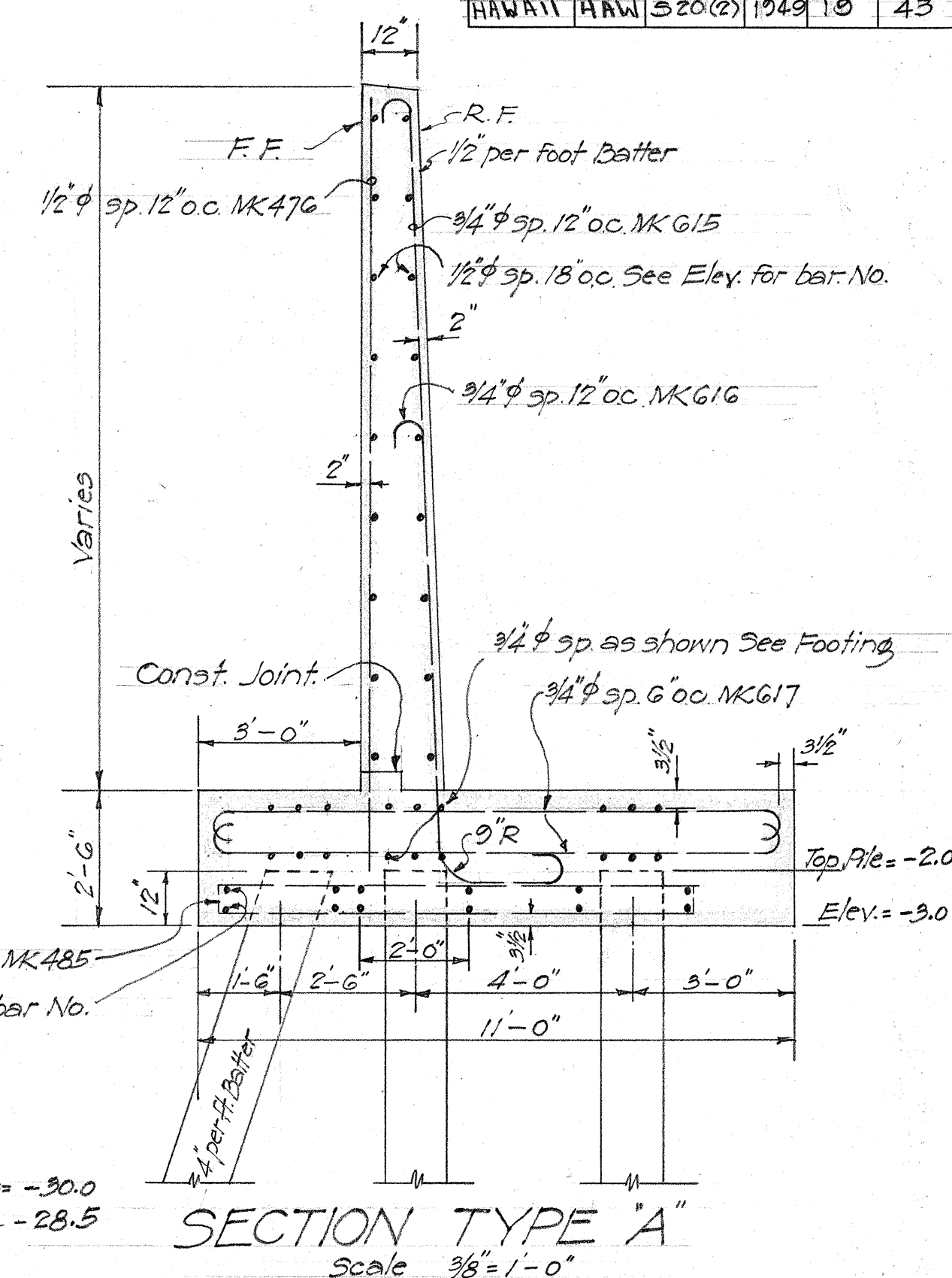
SHEET No 5 OF 10 SHEETS

5096.18

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HA	520(2)	1949	10	43



Tip Elev. of vertical piles = -30.0
Tip Elev. of Batter piles = -28.5



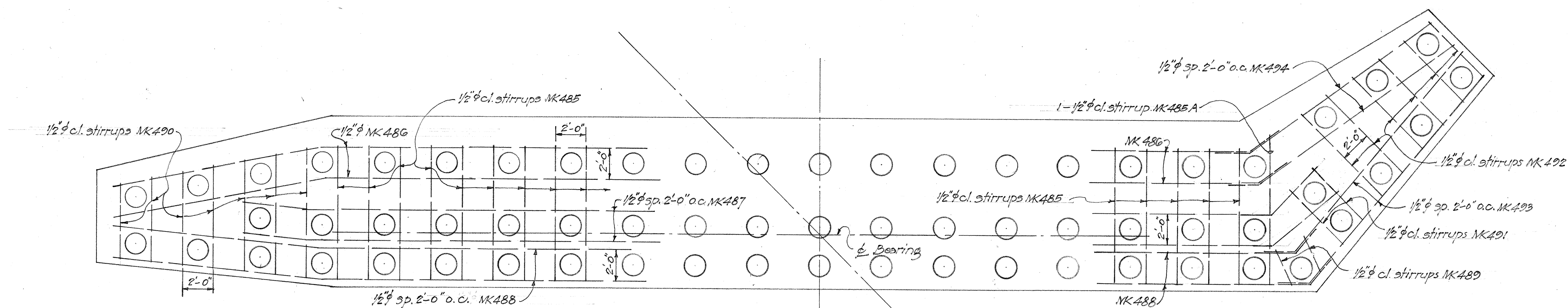
ELEVATION ABUTMENT No 2
Scale 1/4" = 1'-0"

Note! All elevations are at ± Bearing.

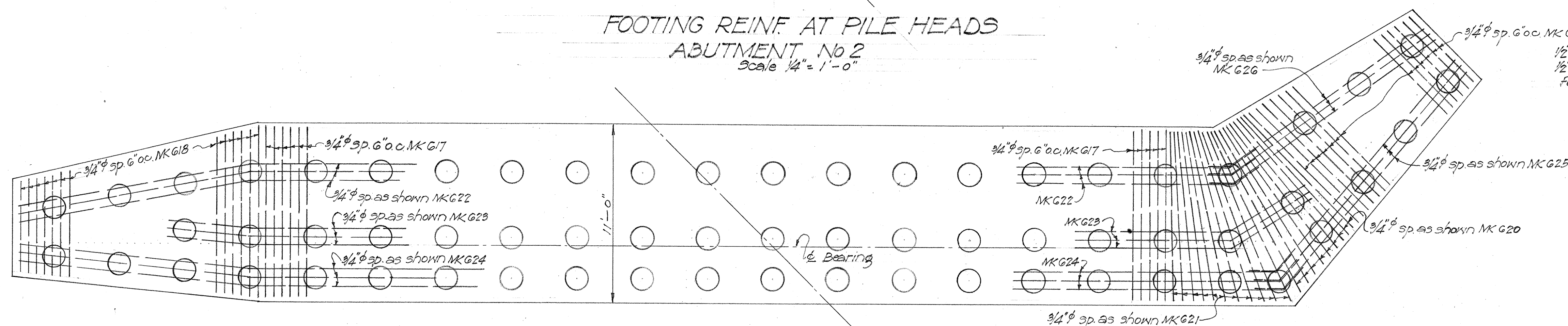
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAILILILI BRIDGE
Sta. 778 + 10
WAIANAE RD.
Sept. 1948
SHEET No 6 OF 10 SHEETS

5096.19

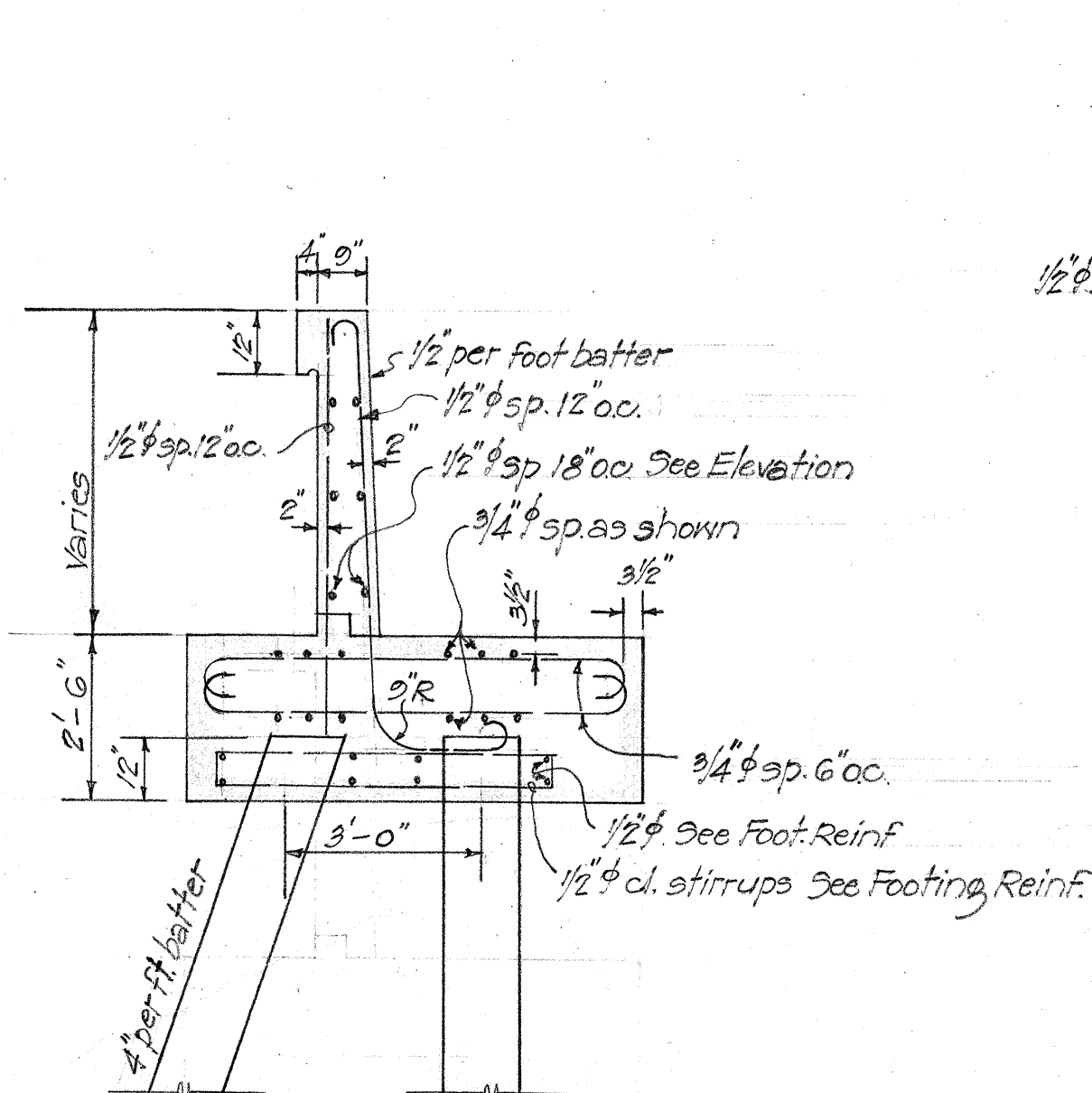
ORIGINAL PLAN
DESIGNED BY
DRAWN BY
CHECKED BY
DATE
OCT 1948
OCT 1948
OCT 1948
OCT 1948



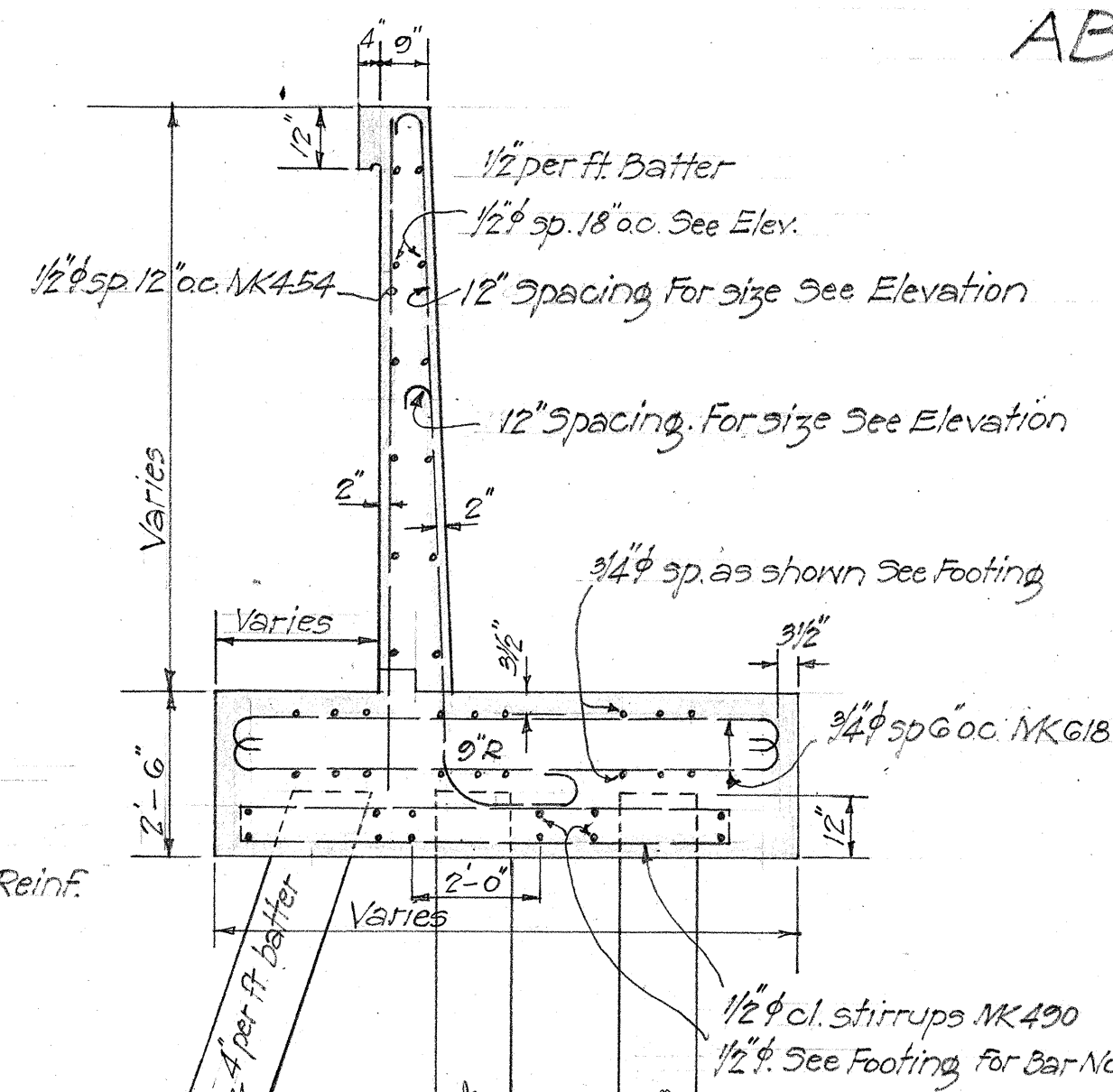
FOOTING REINF. AT PILE HEADS
ABUTMENT No 2
Scale 1/4" = 1'-0"



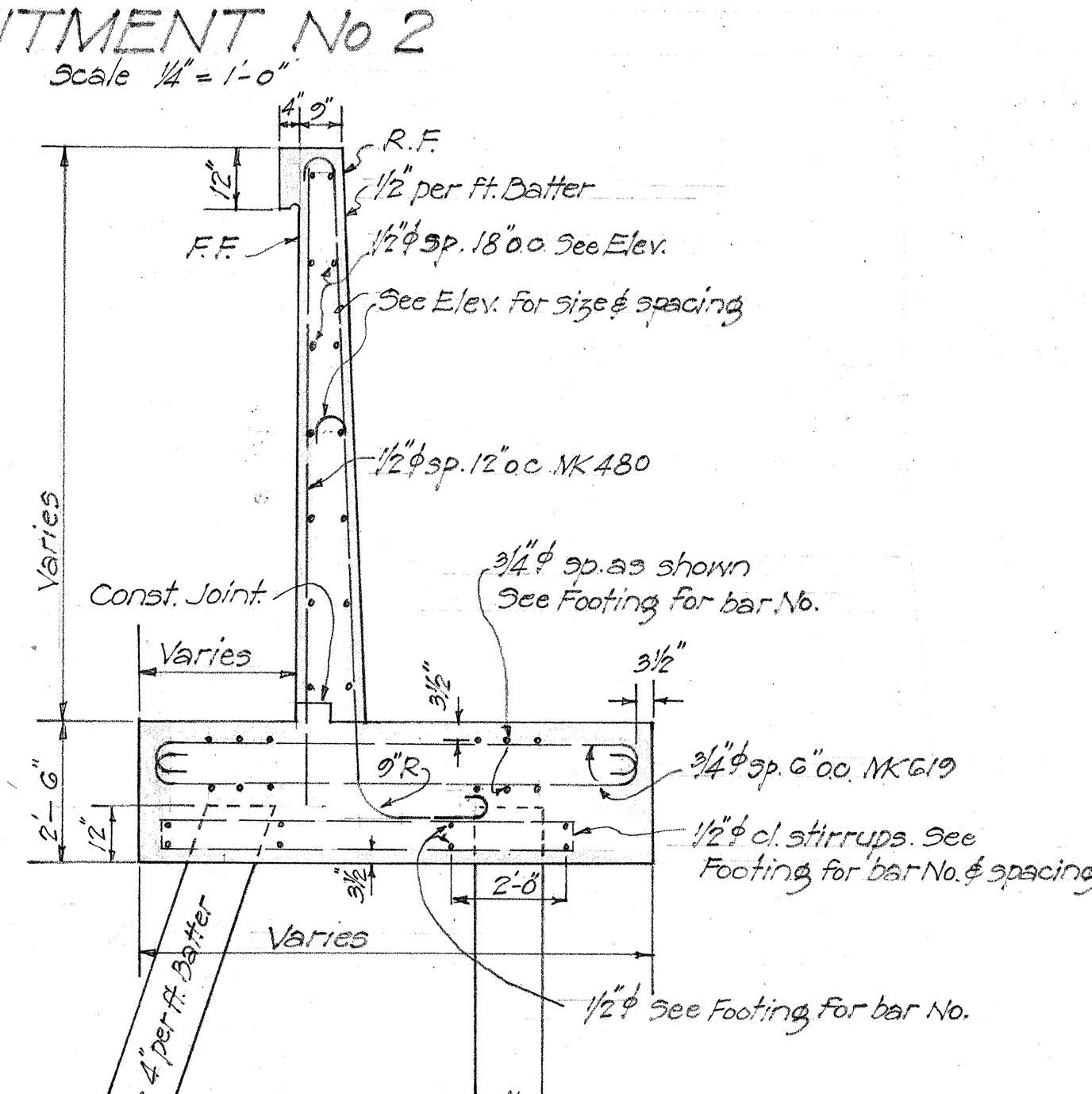
FOOTING REINF. ABOVE PILE HEADS
ABUTMENT No 2
3ca/e $\frac{1}{4}" = 1'-0"$



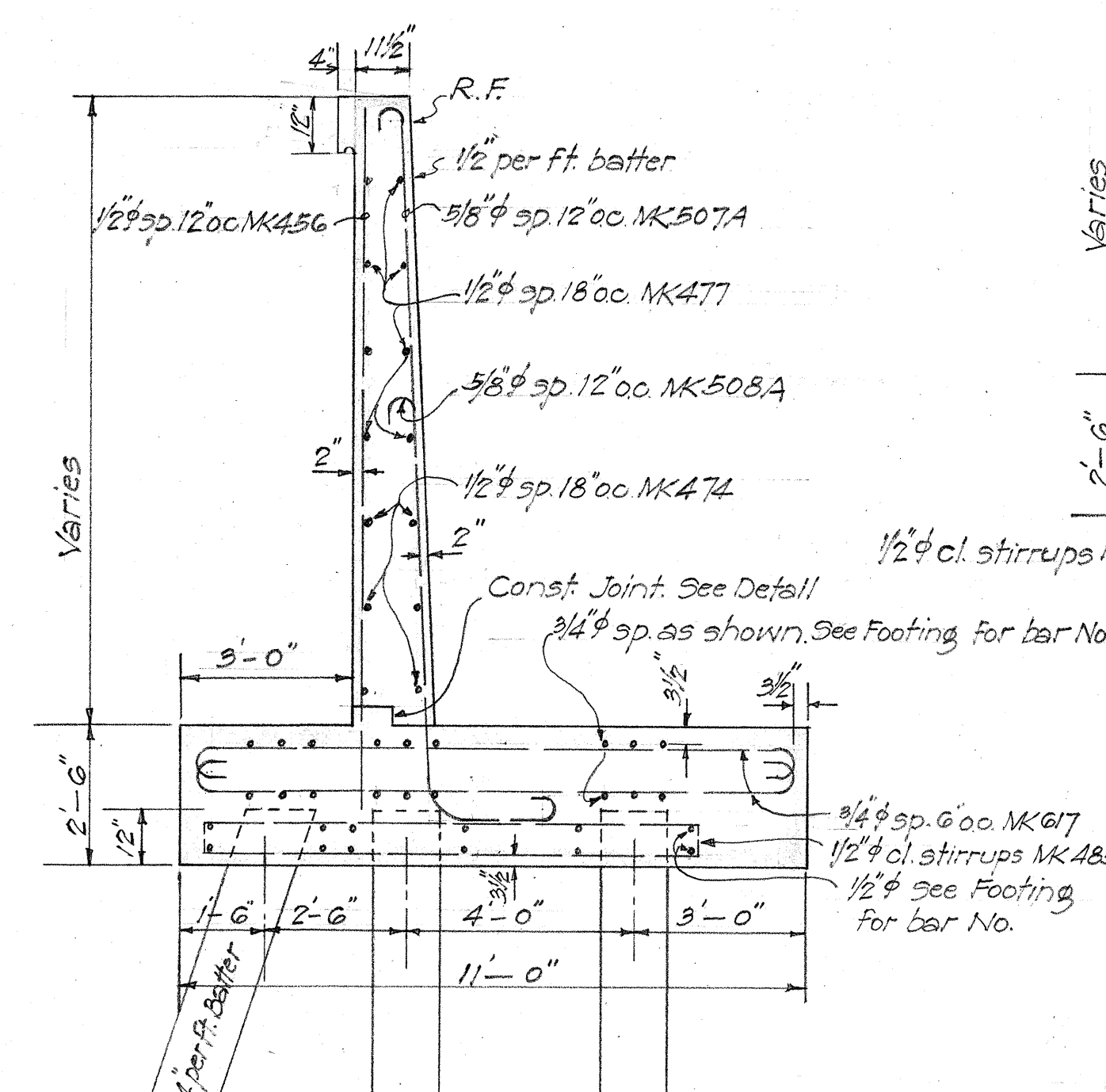
SECTION TYPES "K", "P"
Scale $\frac{3}{8}'' = 1'-0''$



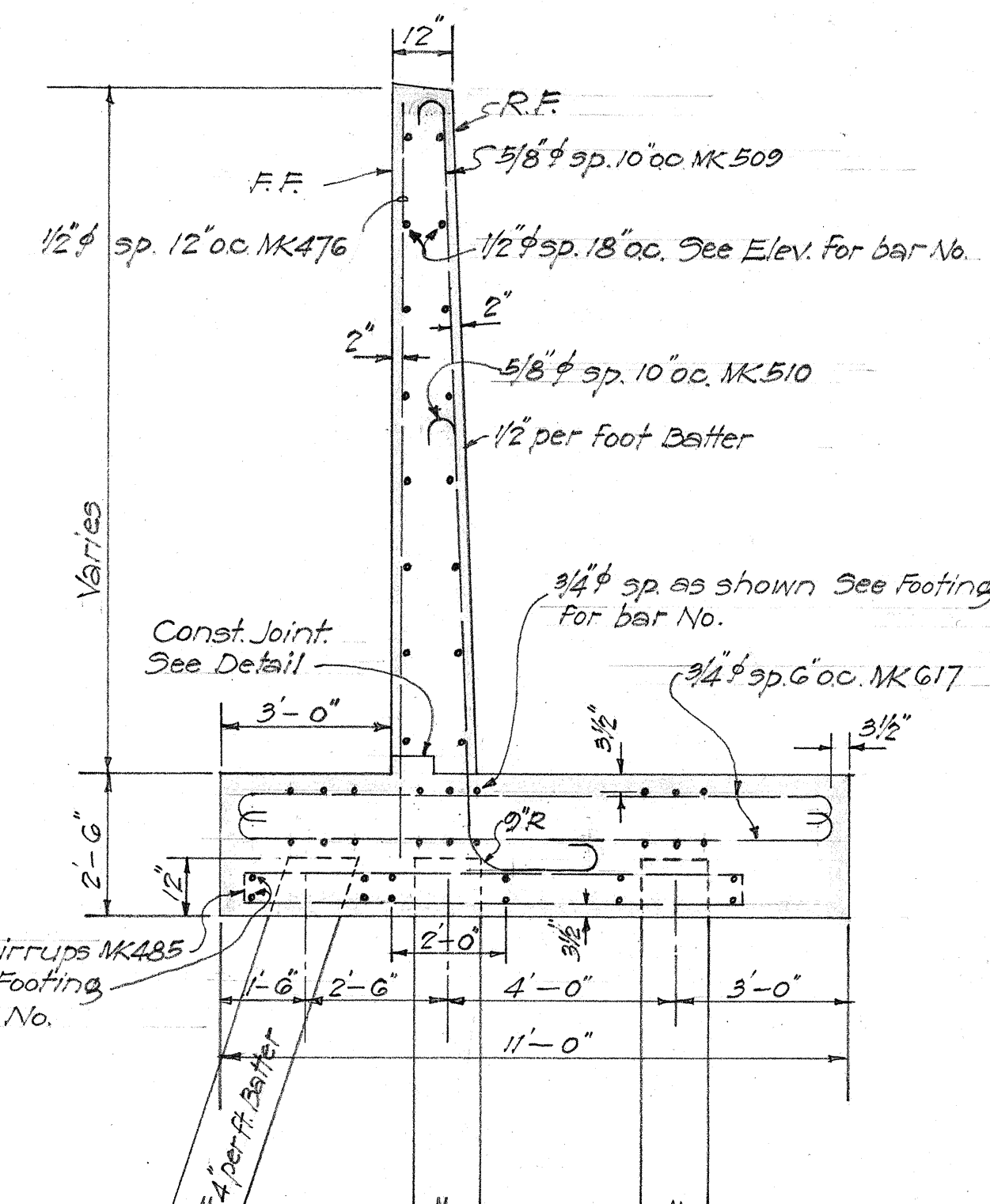
SECTION TYPE "L", "T"
Scale $\frac{3}{8}'' = 1'-0''$



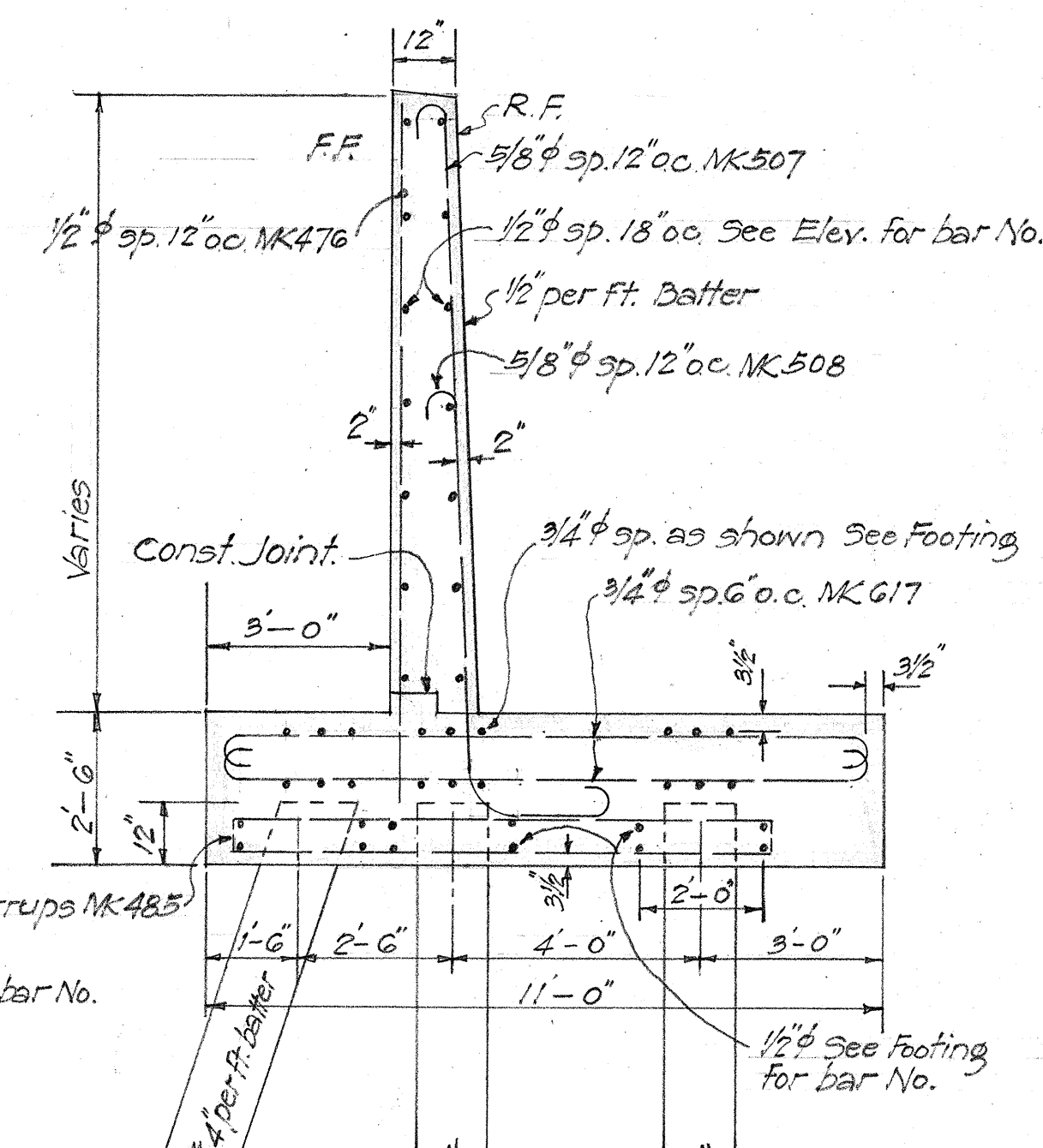
SECTION TYPES "M," "N," "O"
Scale 3/8" = 1'-0"



SECTION TYPE "C-1"
Scale $\frac{3}{8}'' = 1'-0''$



SECTION TYPE "B"
Scale $\frac{3}{8}'' = 1'-0''$



SECTION TYPE "C"
Scale $\frac{3}{8}'' = 1'-0''$

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAILING BRIDGE

Sta. 778 + 10

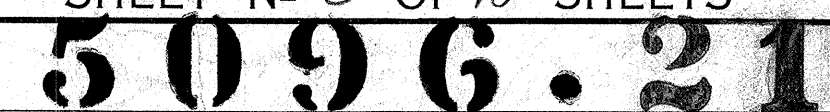
WAIANAE RD.

Sept. 1948

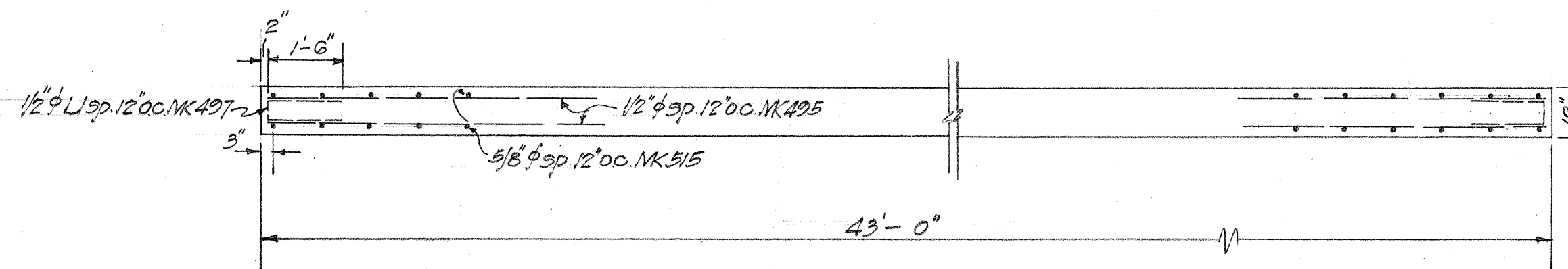
SHEET № 7 OF 10 SHEETS

5096.20

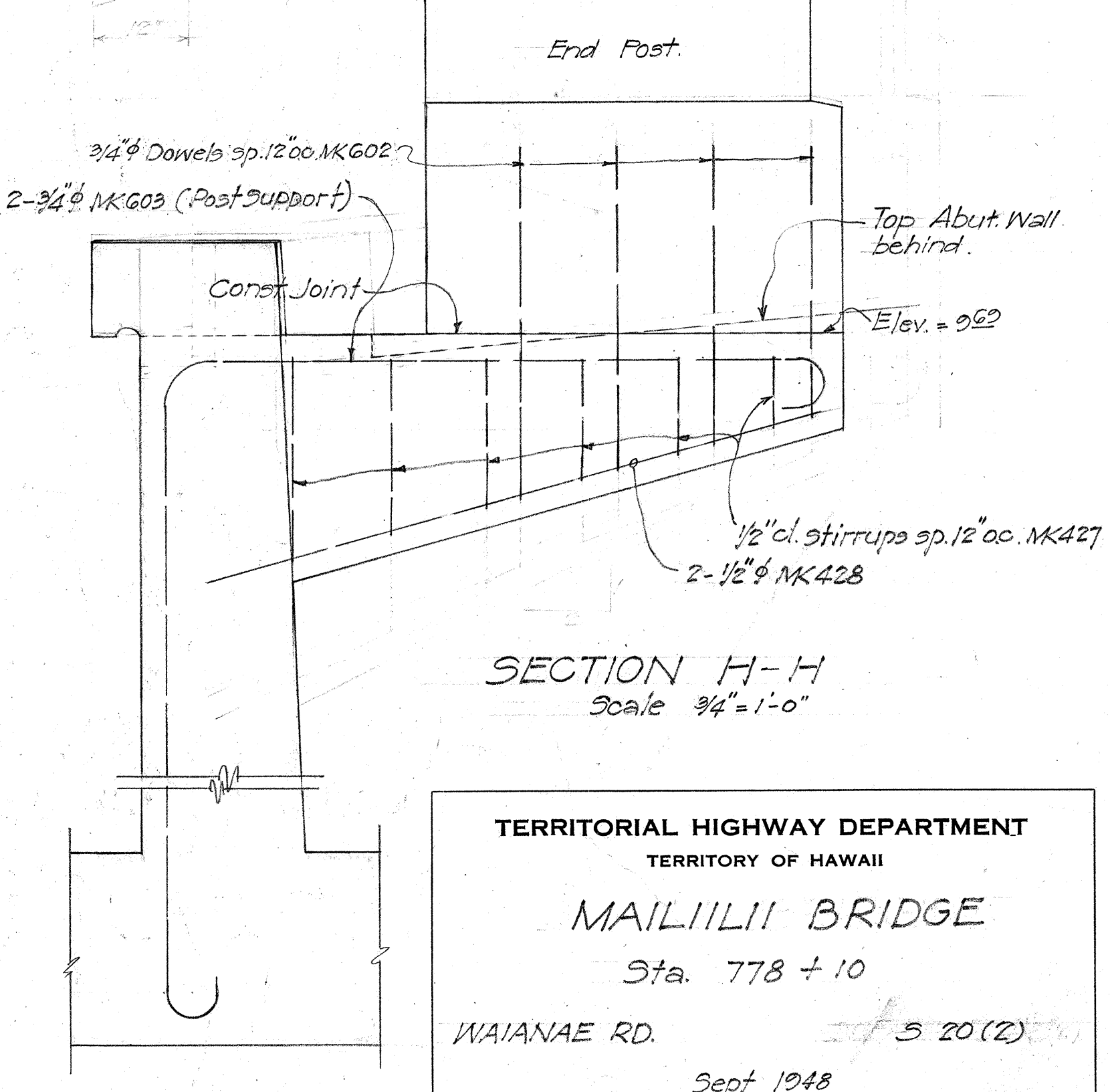
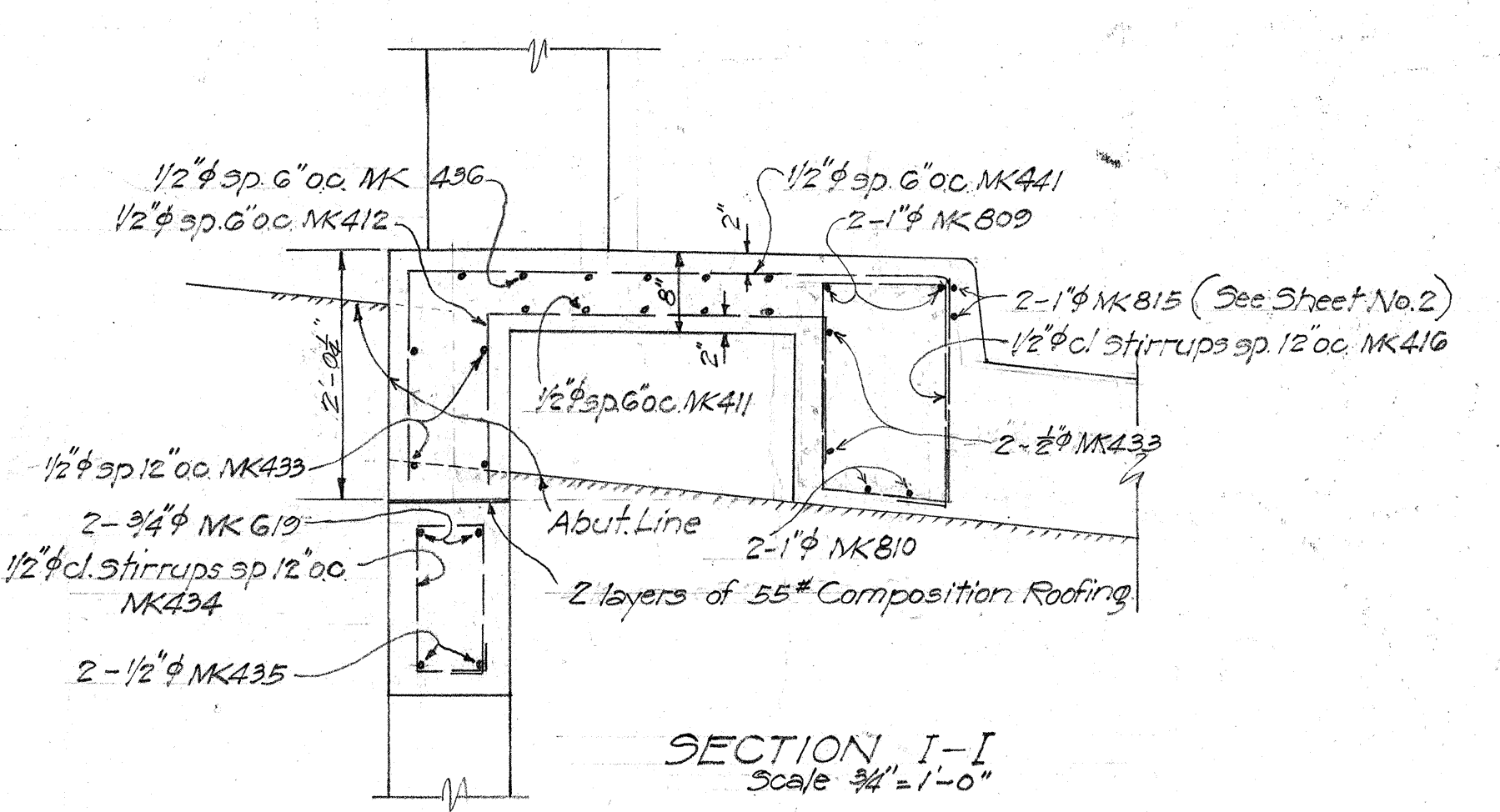
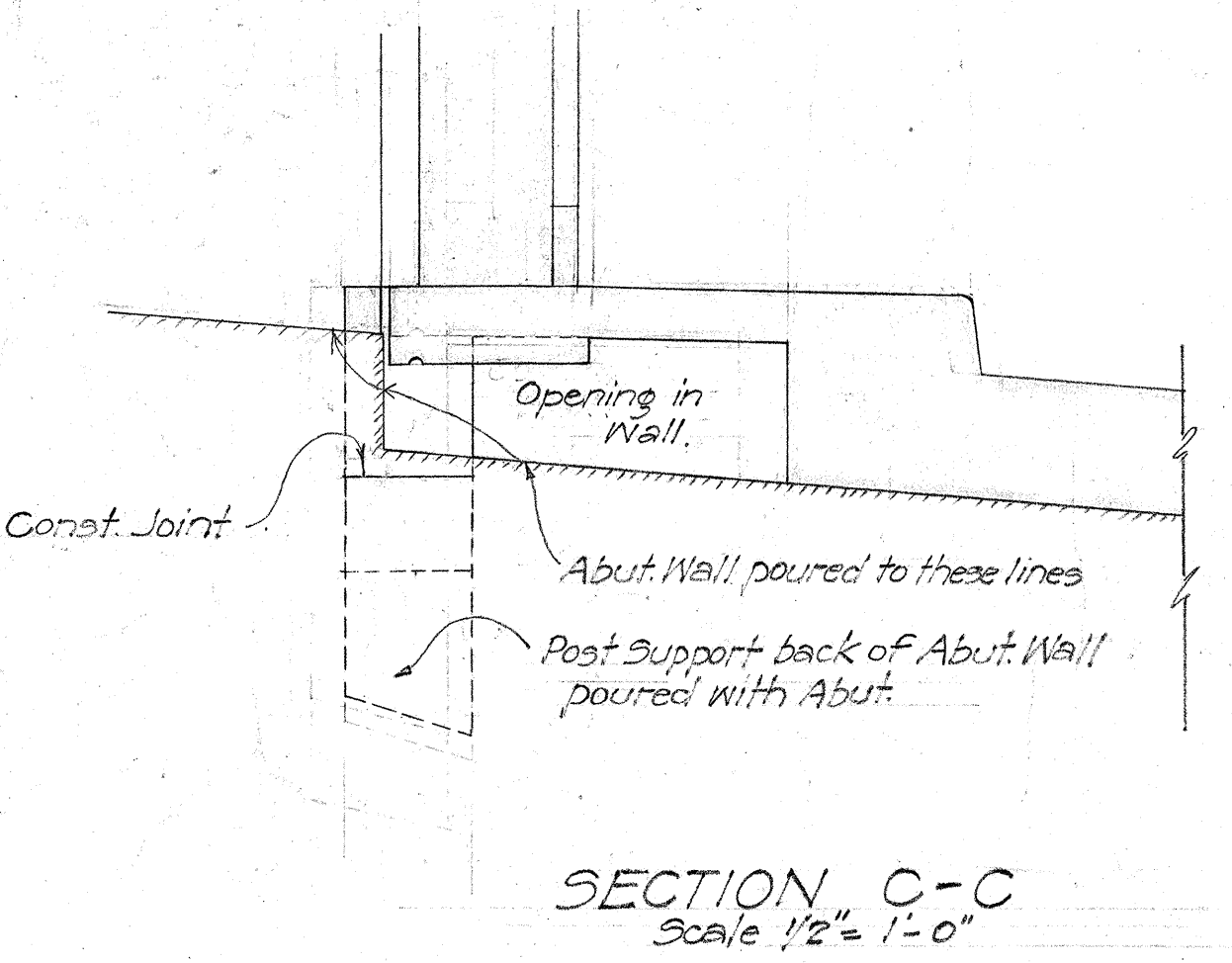
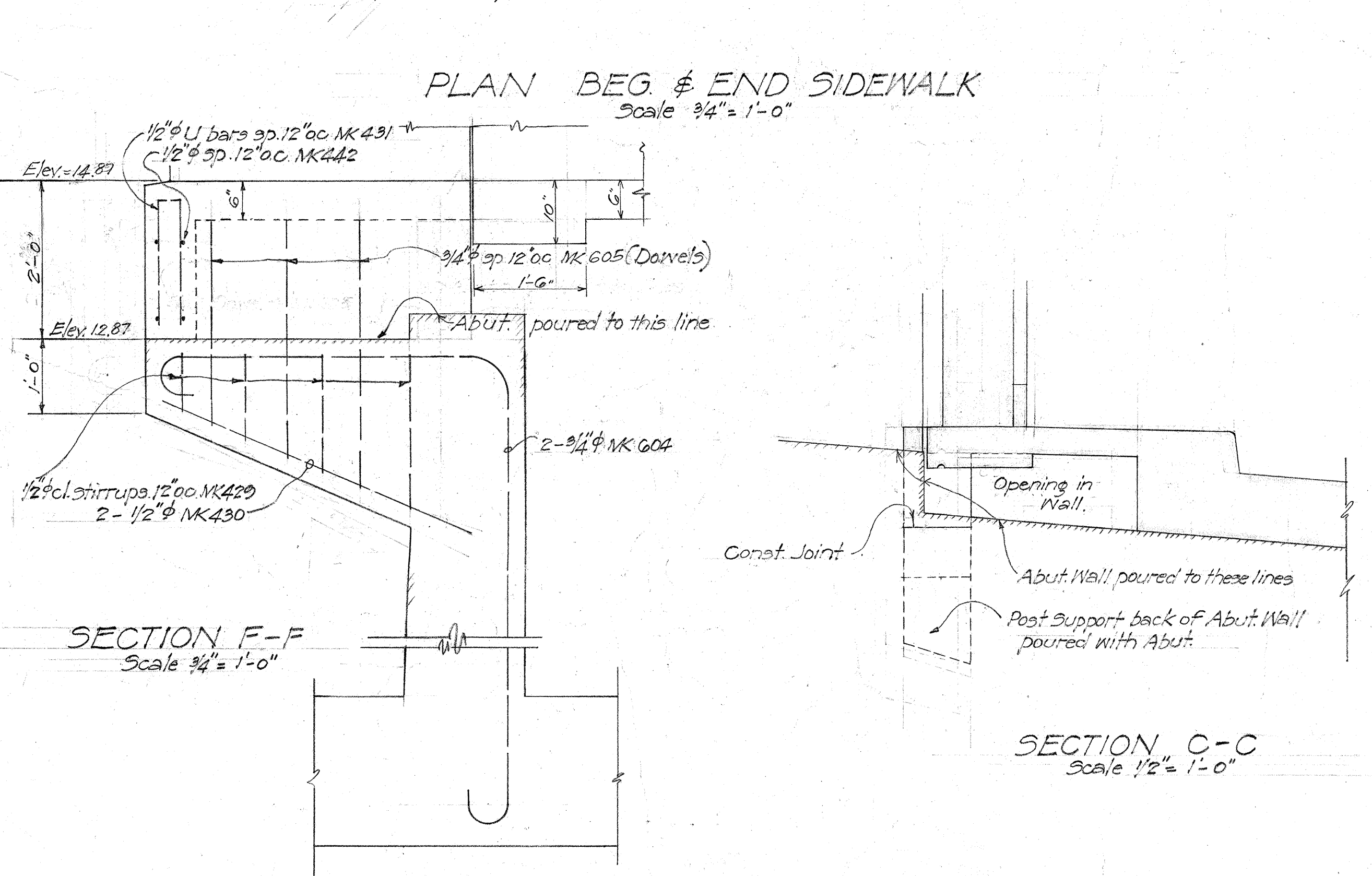
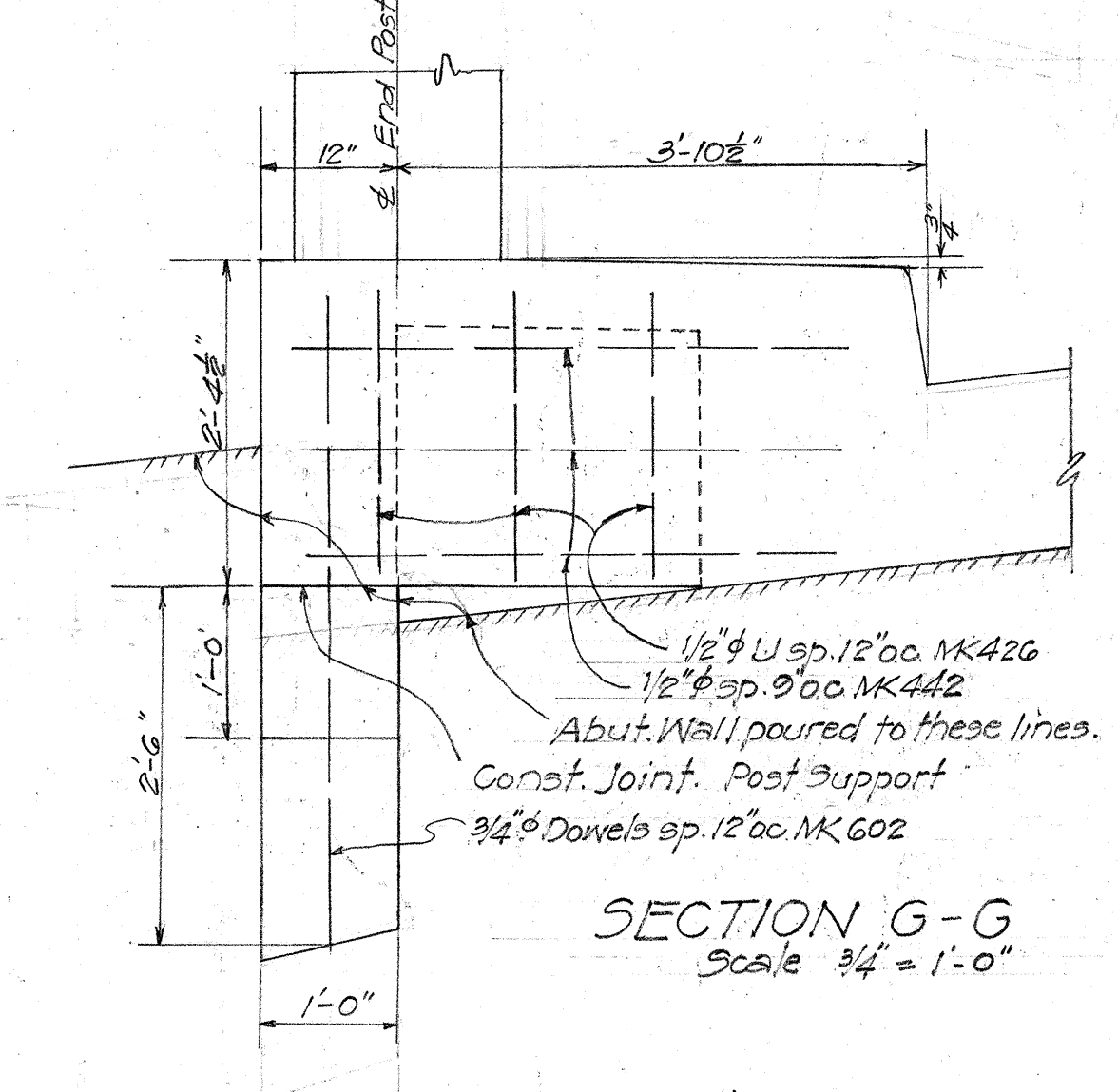
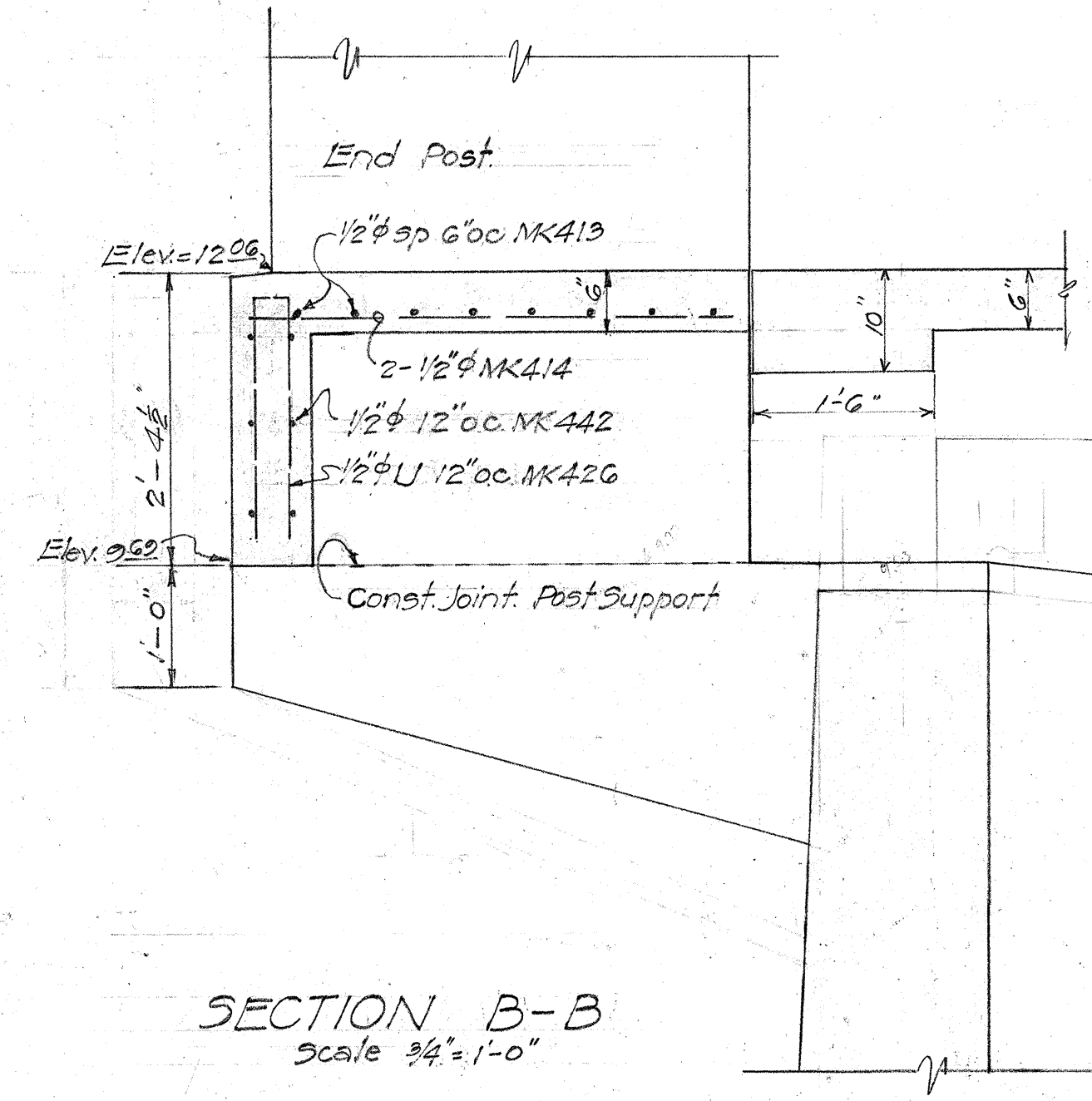
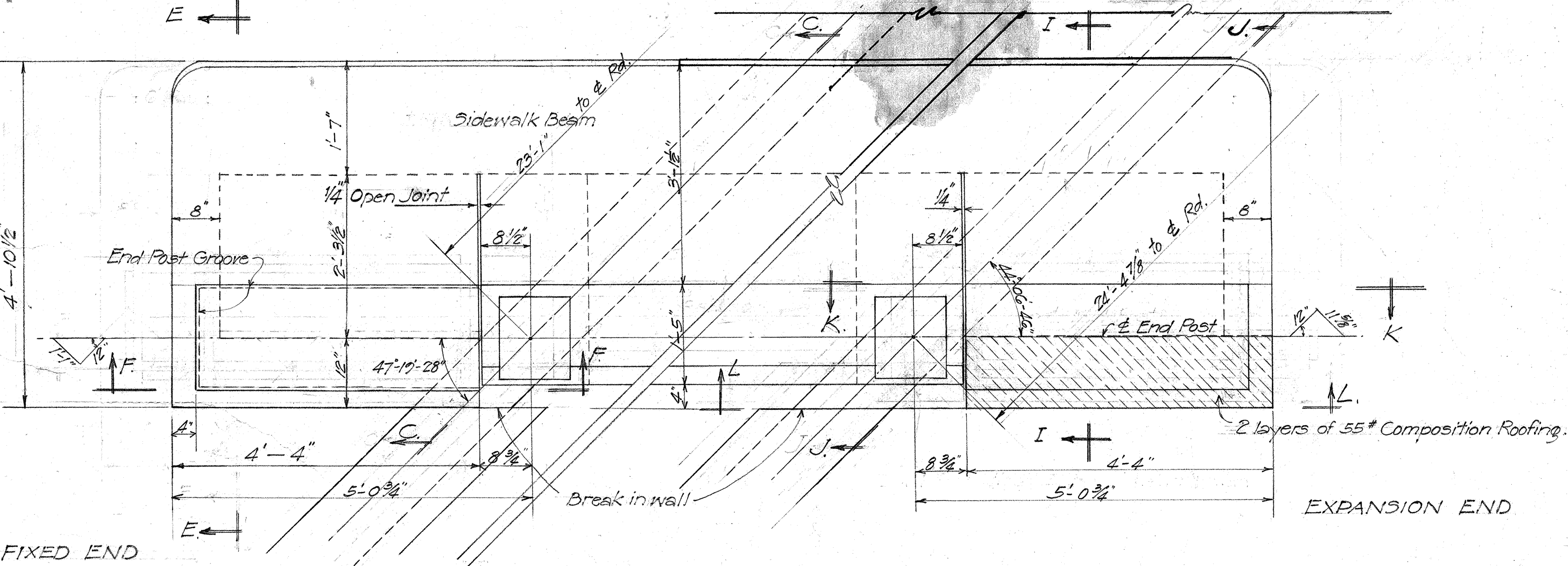
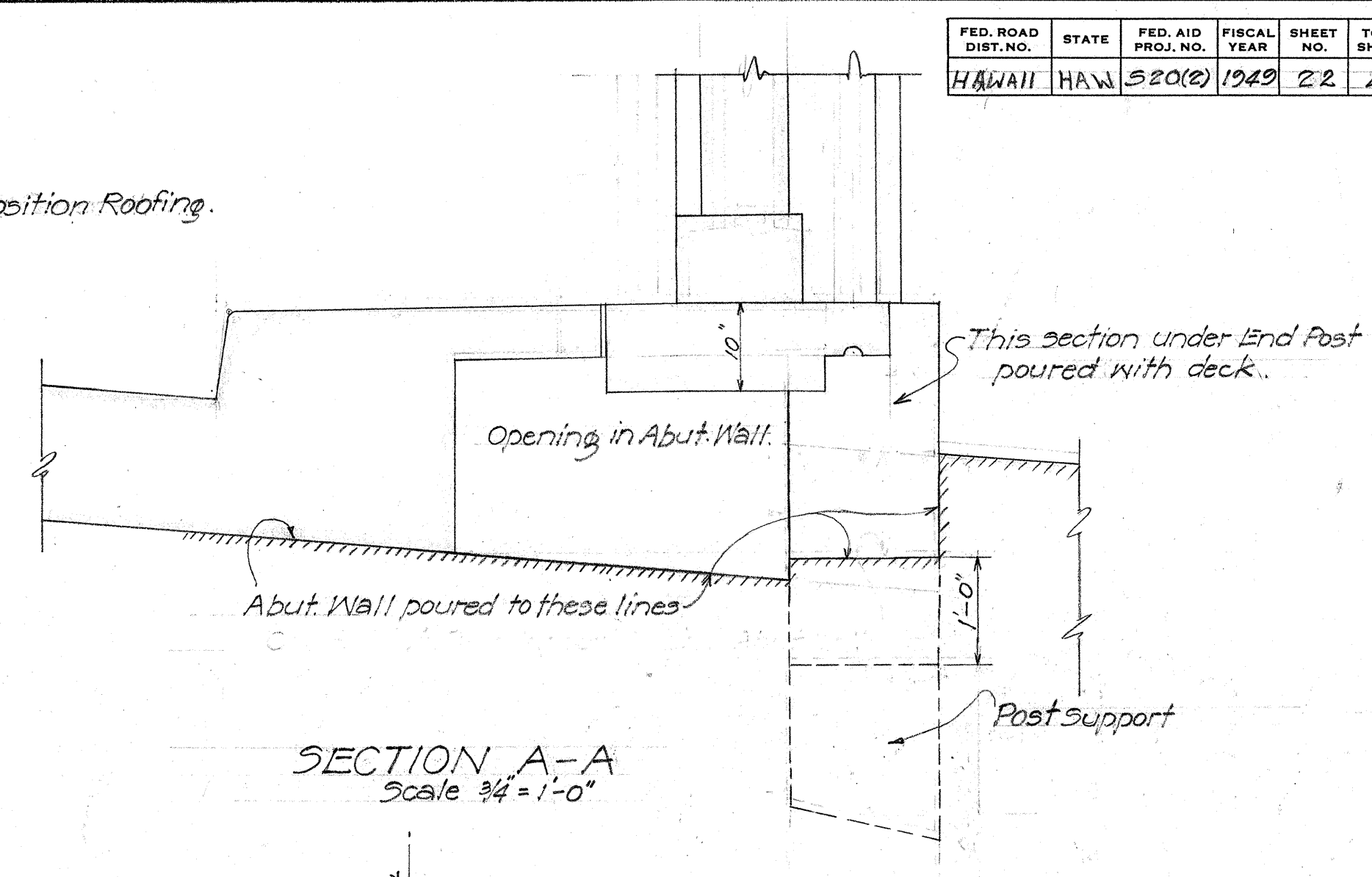
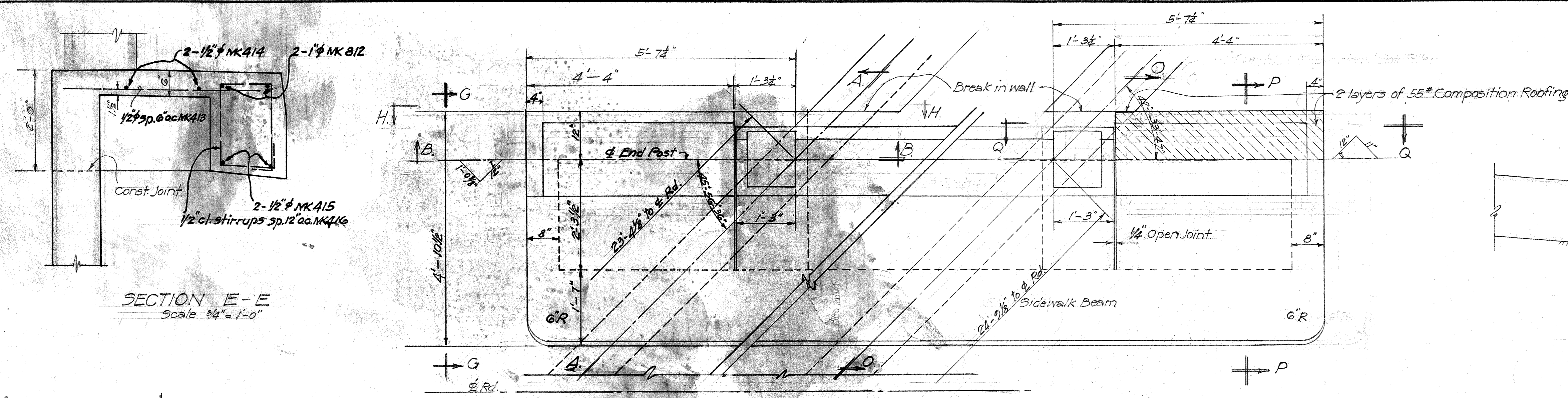
ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY DRAWN BY TRACED BY QUANTITIES BY QUANTITIES CHECKED BY CHECKED BY	DATE " " " " " " " " " " " "
NOTE BOOK	By <i>Boyle</i> <i>P. Yamashita</i> <i>P. Yamashita</i> <i>P. Yamashita</i> <i>P. Yamashita</i> <i>H. Yamamoto</i>	<i>Sept. 1941</i> <i>Sept. 1941</i> <i>Oct. 1941</i> <i>Oct. 1941</i> <i>Oct. 1941</i>
No.		



SEC. AT ϕ PIER No. 2
STA. 778 + 25^o
Scale $\frac{3}{8}" = 1'-0"$



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	520(2)	1949	22	43



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAILILII BRIDGE
Sta. 778 + 10
WAIANAE RD.
SHEET No 9 OF 10 SHEETS
5096.22

ORIGINAL
PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DESIGNED BY
DRAWN BY
QUANTITIES BY
CHECKED BY

DATE
10/1/49
10/1/49
10/1/49
10/1/49
10/1/49

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

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
703		ABUT #1 FOOTING	7/8"	12'-4"	19	1	19	234.3	2.04	478
702		"	"	9'-9"	19	1	19	185.3	"	378
612		"	3/4"	11'-1"	24	1	24	265.9	1.50	399
611		"	"	8'-8"	24	1	24	208.1	"	312
613		"	"	10'-1"	19	1	19	191.5	"	287
614		"	"	7'-11"	19	1	19	150.5	"	226
475		"	1/2"	21'-3"	2	1	2	42.5	0.67	28
465		"	1/2"	59'-6"	8	1	8	476.0	"	319
816		WINGWALL FOOTING	1"	9'-11"	5	1	5	496	2.67	132
817		"	"	12'-6"	5	1	5	62.5	"	167
704		"	7/8"	10'-7"	5	1	5	52.9	2.04	108
705		"	"	8'-4"	5	1	5	41.7	"	85
615		"	3/4"	6'-11"	10	1	10	69.2	1.50	104
616		"	"	8'-10"	10	1	10	88.3	"	132
468		"	1/2"	6'-10"	10	1	10	68.3	0.67	46
469		"	"	5'-5"	10	1	10	54.2	"	36
470		"	"	4'-9"	12	1	12	57.0	"	38
473		"	"	11'-6"	2	1	2	23.0	"	15
471		"	"	43'-6"	3	1	3	130.8	"	88
472		"	"	32'-0"	2	1	2	64.0	"	43
472A		"	"	7'-3"	2	1	2	14.5	"	10
467		"	"	21'-6"	3	1	3	64.5	"	43
ABUT No.1 & WINGWALL FOOTING TOTAL										3474
609		ABUT. No.1	3/4"	20'-9 1/2"	14	1	14	291.1	1.50	437
610		"	"	14'-5 1/2"	14	1	14	202.4	"	304
609A		"	"	22'-9"	5	1	5	113.8	"	171
610A		"	"	15'-6"	5	1	5	77.5	"	116
461		"	1/2"	17'-4"	5	1	5	86.7	0.67	58

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
503		ABUT. No.1	5/8"	12'-10"	24	1	24	307.9	1.04	320
504		"	"	18'-6 1/2"	24	1	24	445.0	"	463
505		"	"	11'-6 1/2"	13	1	13	150.0	"	156
506		"	"	16'-9"	15	1	15	251.3	"	261
506A		"	"	17'-3 1/2"	4	1	4	69.7	"	72
506A		"	"	11'-9 1/2"	6	1	6	70.7	"	74
474		"	1/2"	60'-3"	7	1	7	421.8	0.67	283
466		"	"	58'-3"	7	1	7	407.8	"	273
459		"	"	22'-6"	3	1	3	67.5	"	45
460		"	"	22'-6"	3	1	3	73.5	"	49
464		"	"	4'-6"	2	1	2	9.0	"	6
462		"	"	13'-10"	48	1	48	663.8	"	445
463		"	"	13'-2"	6	1	6	79.0	"	53
700		WINGWALL ABUT #1	7/8"	15'-0 1/2"	5	1	5	75.2	2.04	153
701		"	"	22'-2 1/2"	5	1	5	111.1	"	227
607		"	3/4"	13'-2"	5	1	5	65.9	1.50	99
608		"	"	19'-4"	5	1	5	96.7	"	145
501		"	5/8"	10'-9 1/2"	10	1	10	107.9	1.04	112
502		"	"	16'-2 1/2"	10	1	10	162.1	"	169
451		"	1/2"	8'-9 1/2"	10	1	10	87.9	0.67	59
452		"	"	12'-7"	10	1	10	125.8	"	84
449		"	"	8'-6"	12	1	12	102.0	"	68
450		"	"	11'-0"	42	1	42	462.0	"	310
457		"	"	43'-9"	2	2	4	175.0	"	117
458		"	"	24'-9"	8	2	16	396.0	"	265
601		ABUT #1	3/4"	3'-0"	36	1	36	108.0	1.50	162
602		"	"	3'-2"	4	1	4	12.7	"	19
605		"	"	3'-3"	3	1	3	9.8	"	15

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
603		ABUT No.1	3/4"	20'-3"	2	1	2	40.5	1.50	61
427		"	1/2"	4'-10"	6	1	6	29.0	0.67	19
428		"	"	6'-4"	2	1	2	12.7	"	9
430		"	"	4'-6"	2	1	2	9.0	"	6
429		"	"	4'-8"	4	1	4	18.7	"	13
604		"	3/4"	21'-5"	2	1	2	42.8	1.50	64
ABUT. No.1 & WINGWALL TOTAL										5762
485		ABUT #2 & W.W. FOOTING	1/2"	19'-3"	30	1	30	577.5	0.67	387
486		"	"	75'-9"	2	2	4	303.0	"	203
487		"	"	71'-0"	2	2	4	284.0	"	190
488		"	"	78'-6"	2	2	4	314.0	"	210
489		"	"	6'-9"	2	1	2	13.5	"	9
490		"	"	14'-11"	7	1	7	104.4	"	70
491		"	"	11'-1"	2	1	2	22.2	"	15
492		"	"	14'-1"	6	1	6	84.5	"	57
494		"	"	17'-0"	2	2	4	68.0	"	46
485A		"	"	21'-1"	1	1	1	21.1	"	14
617		"	3/4"	12'-1"	111	2	222	2681.8	1.50	4023
618		"	"	9'-7"	30	2	60	574.8	"	862
493		"	1/2"	19'-2"	2	2	4	76.7	0.67	51
619		"	3/4"	9'-3"	23	2	46	425.5	1.50	638
621		"	"	12'-4"	11	2	22	271.3	"	407

CONTRACTOR'S NOTE

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

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAILILILI BRIDGE

WAIANA E RD. 520(2)

Oct. 1941

SHEET No. 1 OF 3 SHEETS

DESIGNED BY: P. Yamashita
DATE: Oct. 1941
DRAWN BY: P. Yamashita
CHECKED BY: J. I. Iwamoto
QUANTITIES BY: P. Yamashita
NOTE BOOK

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

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
G20		ABUT #2 & W.W. FOOTING	1/2"	11'-11" V.B. AV.	9	2	18	214.6	1.50	322
G22		"	"	76'-4" V.B. AV.	3	2	6	458.0	"	687
G23		"	"	70'-9" V.B. AV.	3	2	6	424.5	"	637
G24		"	"	79'-2" V.B. AV.	3	2	6	475.0	"	713
G25		"	"	19'-2" V.B. AV.	3	2	6	115.0	"	173
G26		"	"	16'-10" V.B. AV.	3	2	6	101.0	"	152
ABUT No. 2 & WINGWALL FOOTING TOTAL										3,866
507		ABUT #2 & WINGWALL	1/2"	15'-7" V.B. AV.	16	1	16	249.3	1.04	259
508		"	"	10'-8" V.B. AV.	15	1	15	160.1	"	167
507A		"	"	16'-1" V.B. AV.	6	1	6	96.4	"	100
508A		"	"	10'-10" V.B. AV.	6	1	6	65.0	"	68
509		"	"	16'-11" V.B. AV.	24	1	24	406.1	"	422
510		"	"	11'-3" V.B. AV.	24	1	24	270.0	"	281
G15		"	"	18'-6" V.B. AV.	15	1	15	277.5	1.50	416
G16		"	"	12'-3" V.B. AV.	15	1	15	183.8	"	276
G15A		"	"	20'-7" V.B. AV.	5	1	5	102.9	"	154
G16A		"	"	13'-3" V.B. AV.	5	1	5	66.3	"	99
706		"	"	20'-0" V.B. AV.	5	1	5	100.0	2.04	204
707		"	"	13'-2" V.B. AV.	4	1	4	52.7	"	108
511		"	"	16'-4" V.B. AV.	4	1	4	65.3	1.04	68
512		"	"	11'-0" V.B. AV.	5	1	5	55.0	"	57
481		"	"	11'-11" V.B. AV.	8	1	8	95.4	0.67	64
482		"	"	9'-1" V.B. AV.	4	1	4	36.3	"	24
483		"	"	15'-8" V.B. AV.	9	2	18	282.1	"	189
484		"	"	7'-0" V.B. AV.	2	1	2	14.0	"	9
498		"	"	78'-9" V.B. AV.	3	1	3	236.3	"	158
498A		"	"	71'-3" V.B. AV.	4	1	4	285.0	"	191
478		"	"	31'-0" V.B. AV.	2	2	4	124.0	"	83

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
477		ABUT #2 & WINGWALL	1/2"	63'-6" V.B. AV.	7	1	7	444.5	0.67	298
499		"	"	16'-9" V.B. AV.	3	1	3	50.3	"	34
499A		"	"	9'-6" V.B. AV.	4	1	4	38.0	"	25
456		"	"	12'-7" V.B. AV.	6	1	6	75.5	"	51
520		"	"	14'-8" V.B. AV.	5	1	5	73.4	1.04	76
521		"	"	10'-3" V.B. AV.	5	1	5	51.3	"	53
453		"	"	10'-10" V.B. AV.	10	1	10	108.3	0.67	73
455		"	"	9'-3" V.B. AV.	5	1	5	46.3	"	31
454		"	"	8'-11" V.B. AV.	15	1	15	133.8	"	90
476		"	"	13'-7" V.B. AV.	50	1	50	679.0	"	455
479		"	"	16'-8" V.B. AV.	5	1	5	83.4	"	56
480		"	"	12'-0" V.B. AV.	17	1	17	204.0	"	137
G19		"	"	22'-7 1/2" V.B. AV.	2	1	2	45.3	1.50	68
434		"	"	5'-0" V.B. AV.	4	1	4	20.0	0.67	13
435		"	"	5'-10" V.B. AV.	2	1	2	11.7	"	8
G06		"	"	18'-7 1/2" V.B. AV.	2	1	2	37.3	1.50	56
437		"	"	4'-8" V.B. AV.	4	1	4	18.7	0.67	13
438		"	"	5'-0" V.B. AV.	2	1	2	10.0	"	7
ABUT No. 2 & WINGWALL TOTAL										4,941
518		PIER #1 FOOTING	1/2"	5'-10" V.B. AV.	43	1	43	250.7	1.04	261
496		"	"	42'-5" V.B. AV.	5	1	5	212.1	0.67	142
PIER No. 1 FOOTING TOTAL										403
518	See previous sketch	PIER #2 FOOTING	1/2"	5'-10" V.B. AV.	43	1	43	250.7	1.04	261
496	"	"	"	42'-5" V.B. AV.	5	1	5	212.1	0.67	142
PIER No. 2 FOOTING TOTAL										403

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
515		PIER #1	1/2"	13'-3" V.B. AV.	41	2	82	1086.5	1.04	1130
513		"	"	10'-4" V.B. AV.	1	2	2	20.7	"	22
516		"	"	13'-6" V.B. AV.	1	2	2	27.0	"	28
495A		"	"	23'-6" V.B. AV.	2	2	4	94.0	0.67	63
495		"	"	42'-8" V.B. AV.	9	2	18	768.1	"	515
497		"	"	3'-6 3/8" V.B. AV.	20	1	20	70.1	"	47
PIER No. 1 TOTAL										1,805
495		PIER #2	1/2"	42'-8" V.B. AV.	8	2	16	682.7	0.67	457
495A		"	"	23'-6" V.B. AV.	2	2	4	94.0	"	63
514		"	"	9'-4" V.B. AV.	1	2	2	18.7	1.04	19
517		"	"	12'-7" V.B. AV.	1	2	2	25.2	"	26
497		"	"	3'-6 3/8" V.B. AV.	18	1	18	63.5	0.67	43
519		"	"	12'-3" V.B. AV.	41	2	82	1,004.5	1.04	1,045
PIER No. 2 TOTAL										1,653
804		SUPERSTR. L+ 3W. Beam	1/2"	42'-2 3/4" V.B. AV.	2	1	2	84.5	2.67	226
805		"	"	28'-8" V.B. AV.	2	1	2	57.3	"	153
805A		"	"	28'-1" V.B. AV.	2	1	2	56.2	"	150
806		"	"	49'-5" V.B. AV.	2	2	4	197.7	"	528
807		"	"	44'-8" V.B. AV.	2	2	4	178.7	"	477
405		"	"	9'-0" V.B. AV.	2	1	2	18.0	0.67	12
808		"	"	22'-10" V.B. AV.	2	1	2	45.7	2.67	122

CONTRACTOR'S NOTE

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

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAILILILI BRIDGE

WAIANAE RD. 520(2)

Oct. 1941

SHEET No. 2 OF 3 SHEETS

DESIGNED BY: P. Yamashita
DRAWN BY: P. Yamashita
QUANTITIES CHECKED BY: H. Marub
NOTE BOOK
DATE: Oct. 1941

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

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
406		SUPERSTR. Lt. S.W. Beam	1/2" φ	8'-4"	2	1	2	16.7	0.67	11
422		"	"	10'-8"	2	1	2	21.3	"	14
417		"	"	77'-9"	87	1	87	587.3	"	304
418A		"	"	77'-9"	1	1	1	77.8	"	52
809		Rt. S.W. Beam	1" φ	41'-1"	2	1	2	82.2	2.67	219
810		"	"	27'-4"	2	1	2	54.7	"	146
811		"	"	49'-1"	2	2	4	196.3	"	524
810A		"	"	27'-7"	2	1	2	55.2	"	147
812		"	"	20'-10"	2	1	2	41.7	"	111
415		"	1/2" φ	9'-0"	2	1	2	18.0	0.67	12
416		"	"	6'-5"	84	1	84	539.0	"	361
423		"	"	7'-0"	2	1	2	14.0	"	9
424		"	"	8'-0"	2	1	2	16.0	"	11
420A		"	"	76'-3"	1	1	1	76.3	"	51
800		Deck	1" φ	26'-11"	26	2	52	1400.0	2.67	3738
801		"	"	38'-9 1/2"	27	2	54	2095.7	"	5596
802		"	"	34'-10"	26	1	26	905.6	"	2418
803		"	"	61'-6 1/2"	27	1	27	1661.6	"	4436
400		"	1/2" φ	8'-0"	13	1	13	104.0	0.67	70
401		"	"	11'-4"	13	2	26	294.6	"	197
402		"	"	41'-8"	41	1	41	1708.5	"	1145
500		"	5/8" φ	40'-7"	24	1	24	973.9	1.04	1013
600		"	3/4" φ	40'-7"	25	1	25	1014.5	1.50	1522
631		Sidewalk	"	7'-2"	26	2	52	360.4	"	554
306		"	3/8" φ	6'-4"	256	1	256	1,621.3	0.38	641
404		"	1/2" φ	15'-3"	3	1	3	45.8	0.67	31
419		"	"	18'-3"	3	1	3	54.8	"	37

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
408		SUPERSTR. Sidewalk	1/2" φ	14'-0"	3	2	6	84.0	0.67	56
421		"	"	16'-0"	3	1	3	48.0	"	32
407		"	"	13'-3"	3	1	3	39.8	"	27
413		"	"	4'-0"	8	2	16	64.0	"	43
414		"	"	3'-8"	2	2	4	14.7	"	10
409		"	"	7'-7"	8	1	8	60.7	"	41
410		"	"	5'-11"	6	1	6	35.5	"	24
439		"	"	5'-5"	8	1	8	43.4	"	29
440		"	"	5'-5"	5	1	5	27.1	"	18
433		"	"	3'-10"	6	2	12	46.0	"	31
442		"	"	4'-0"	10	2	20	80.0	"	54
411		"	"	5'-1"	5	1	5	25.4	"	17
412		"	"	5'-2"	8	1	8	41.4	"	28
441		"	"	7'-2"	8	1	8	57.4	"	38
436		"	"	5'-7"	6	1	6	33.5	"	22
431		"	"	3'-6 1/2"	3	1	3	10.6	"	7
426		"	"	4'-2 1/2"	3	1	3	12.6	"	8
814		"	1" φ	24'-1 1/2"	2	1	2	48.3	2.67	129
815		"	"	16'-1 1/2"	2	1	2	32.3	"	86
		Pipe Hanger	1/2" φ	2'-3"	2	10	20	45.0	0.67	30
		"	"	2'-10 1/2"	3	10	30	86.4	"	58
813		Sidewalk Tie	1" φ	20'-0"	6	2	12	240.0	2.67	641
SUPERSTRUCTURE										26,557

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
443		END POST	1/2" φ	5'-0"	4	2	8	40.0	0.67	27
444		"	"	4'-7"	4	4	16	73.1	"	49
448		"	"	4'-8"	4	2	8	37.4	"	25
445		"	"	9'-2"	3	4	12	110.0	"	74
447		RAILING	"	3'-7"	137	1	137	420.0	"	329
446		"	"	15'-4"	2	8	16	245.3	"	164
425		"	"	15'-7"	4	3	12	187.0	"	125
432		"	"	14'-7"	4	3	12	175.0	"	117
420		"	"	3'-3"	2	20	40	150.0	"	87
630		"	3/4" φ	6'-10"	2	20	40	272.5	1.50	409
620		"	"	17'-0"	2	4	8	136.0	"	204
621		"	"	17'-3"	2	3	6	103.5	"	155
624		"	"	16'-3"	2	3	6	97.5	"	146
305		"	3/8" φ	3'-8"	137	1	237	862.0	0.38	330

RAILING & END POST

2,241

GRAND TOTAL

57,105

CONTRACTOR'S NOTE

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TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAILILII BRIDGE

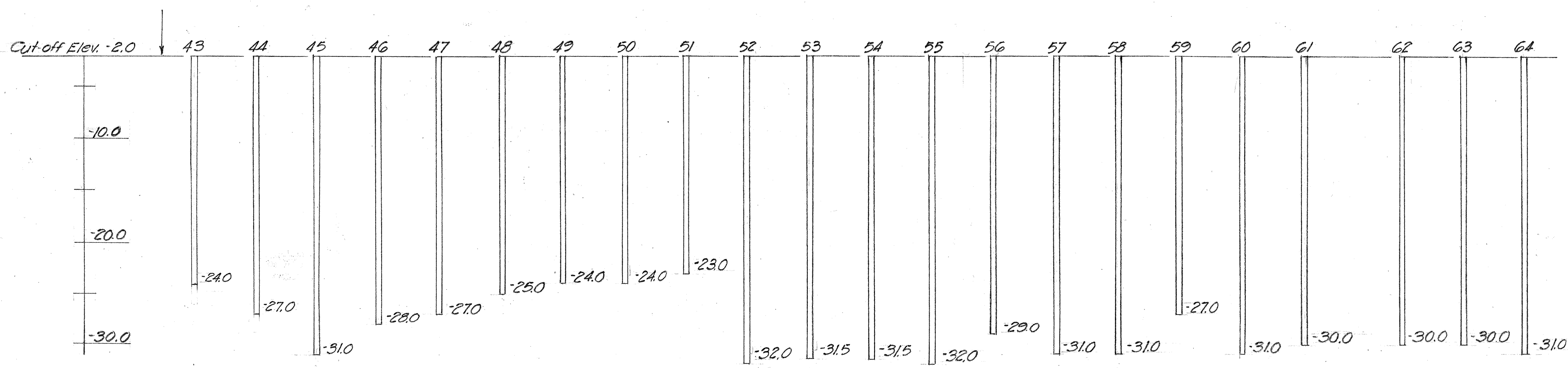
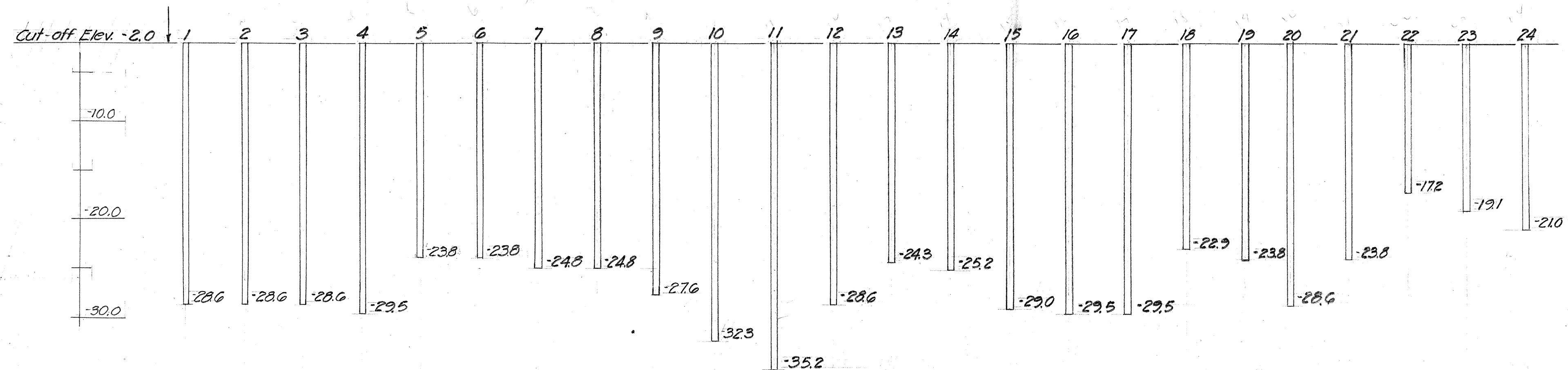
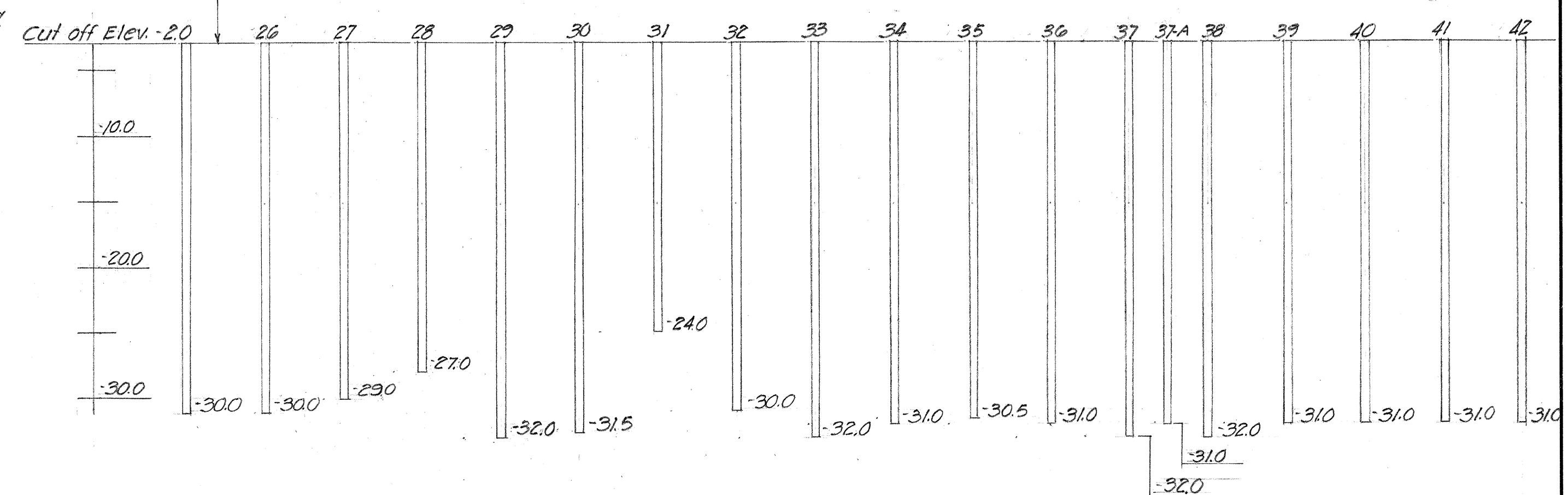
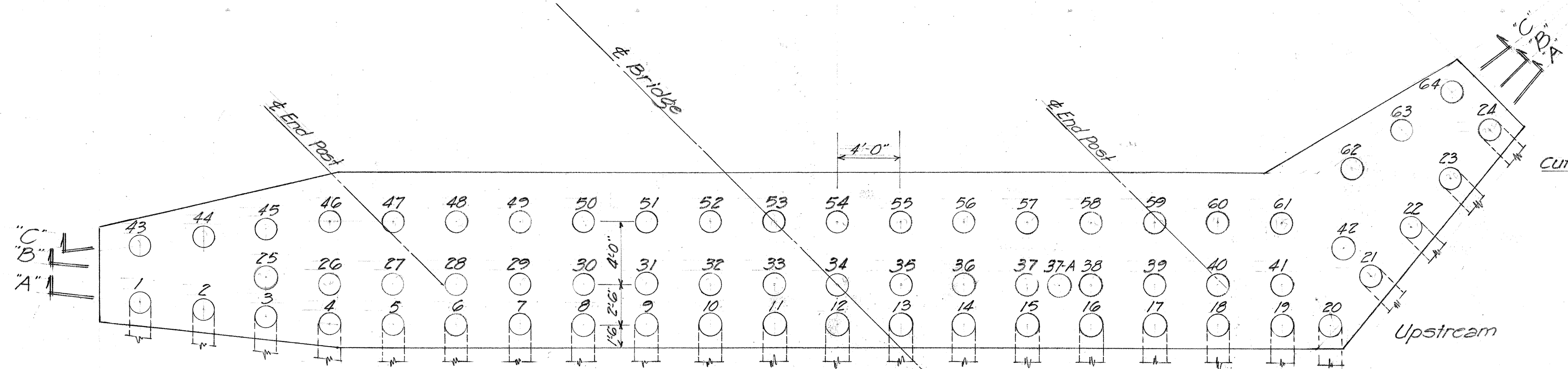
WAIANAE RD. S20(2)

Oct. 1941

SHEET No. 3 OF 3 SHEETS

DESIGNED BY: P. Yamashita
DRAWN BY: P. Yamashita
CHECKED BY: P. Yamashita
DATE: Oct. 1941
NOTE BOOK

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



SURVEY PLOTTED BY	DATE
TRACED BY	
QUANTITIES CHECKED BY	
NO.	

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAILILILI BRIDGE

Sta 778 + 10

WAIANAE RD. Feb 1950

520(2)

SHEET No. / OF / SHEETS