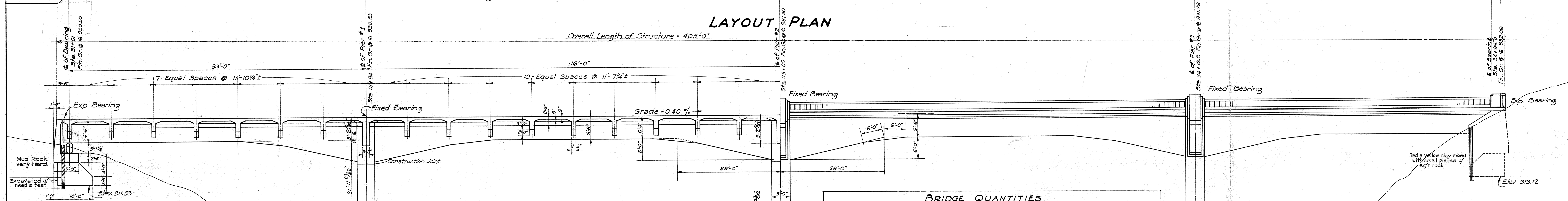


LAYOUT PLAN



HALF SECTION ALONG C

Scale 1"=10'-0"

GENERAL NOTES

Dead Load: Concrete at 150# per cu. ft. Pavement at 25# per sq. ft.
Live Load: Train of 15-ton trucks in two traffic lanes. Impact allowance $\frac{50}{1725}$.
Spacing of trucks: as per diagram.
Concrete: Class A (1:2:4) with all exposed edges chamfered $\frac{3}{4}$ " unless otherwise noted. Allowable compression 750# per sq. inch.
Reinforcing Steel: Intermediate grade, allowable tensile stress 18,000# per sq. inch. All steel to be round or square deformed bars of approved design, square twisted bars not to be considered deformed. All dimensions relating to reinforcing are to centers of bars unless otherwise noted. Where splicing of reinforcing is necessary, bars are to be lapped 40 diameters and splices are to be staggered. Regarding splicing of main longitudinal bars see below. No allowance will be made in the quantities for extra weight of steel required for splicing. Unless otherwise noted the minimum covering measured from the surface of concrete to the face of any steel shall be not less than 2 1/2" in abutments and abutment footings, 2" in beams, girders and handrails and 1 1/4" in slabs. Steel to be held rigidly & accurately in place before & during placing of concrete.
Splices: Splices are permitted in main bars exceeding 80'-0" in length at points to be indicated by the Engineer, to be electrically arc welded using wedge cutbacks and shrouds. Splices to test at least full strength.
Brush Coat Waterproofing: Remove all projections, cement film, dirt, etc. Apply waterproofing as specified. Waterproofing is incidental to the concrete used and will not be paid for separately.
Construction Joints: All construction joints to have surface roughened and 1:2 cement grout applied immediately before second pour. Bottom construction joints to be at top of footings, top construction joints at bottom of girder haunches, railing construction joints at top of curb.

Location	Str. Exc.	BRIDGE QUANTITIES.			16" x 16" Conc. Piles.			Miscellaneous.	
		Class C' conc.	Class A' conc.	Steel.	20' long	25' long	30' long	Conc.	Steel.
Abut. Footings	393.0	107.0	51.0	5979					
Abutments				2970					404
Pier Footings	1,168.0		324.0	17,711	46	42	50		
Piers			297.0	86,155					
Superstructure			1,220.0	283,435				2.0	684
Railing				42.0					
Total	1,561.0	107.0	1,283.0	401,716	46	42	50	2.0	1,088

HALF ELEVATION.

Scale 1"=10'-0"

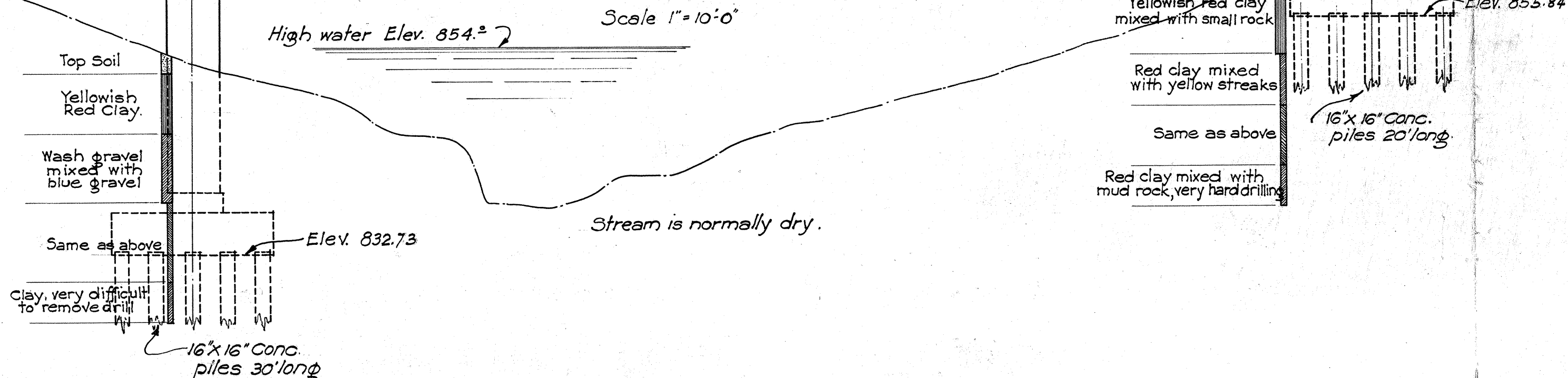
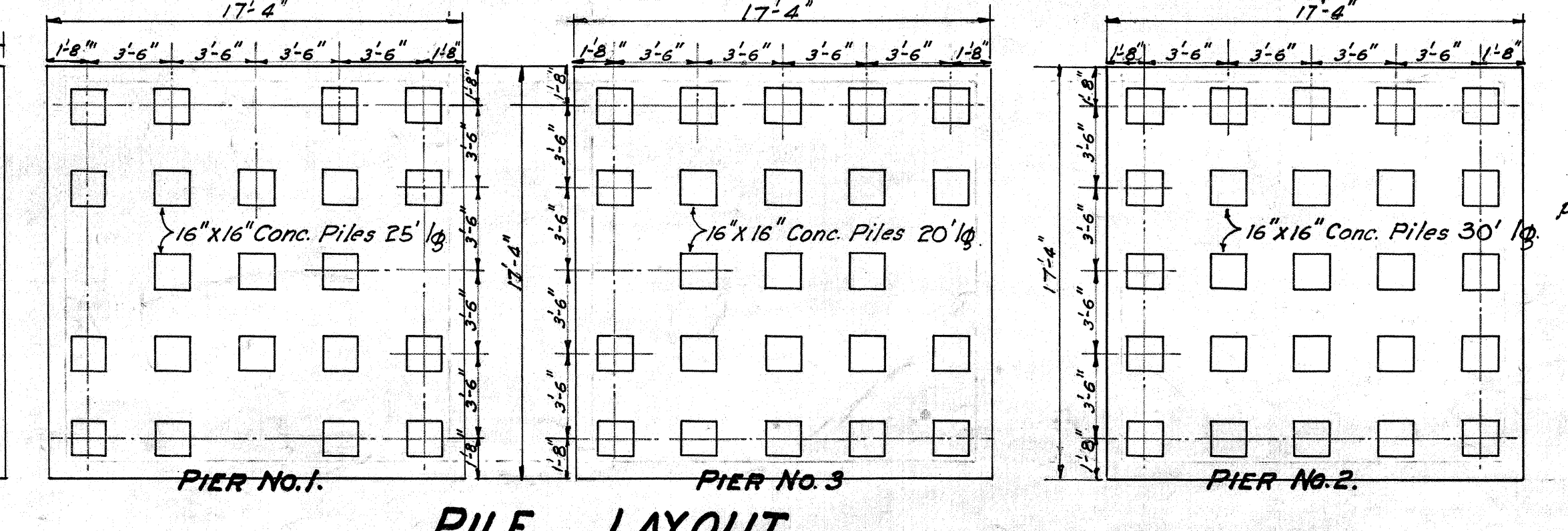
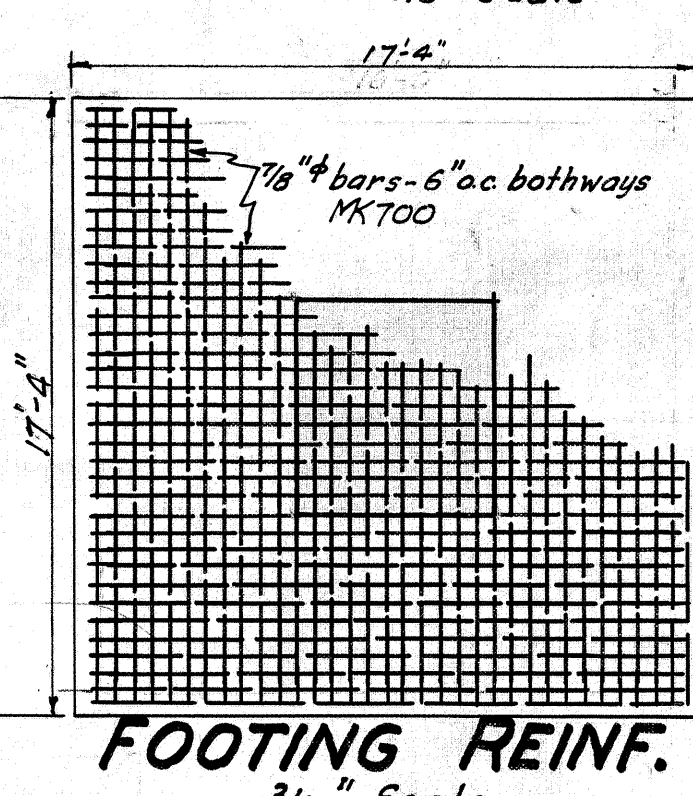
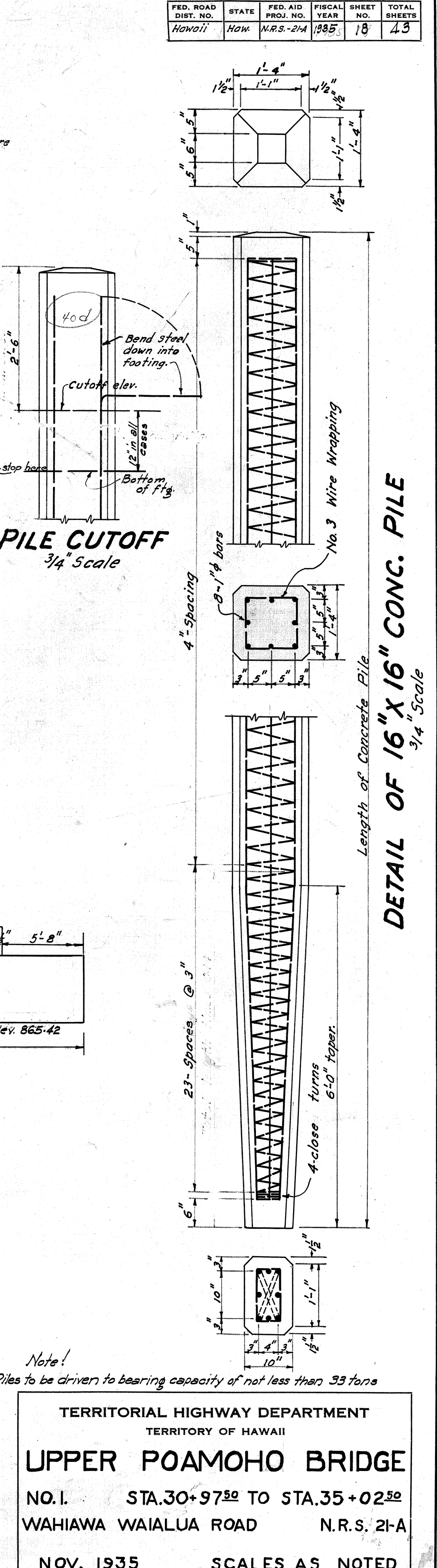
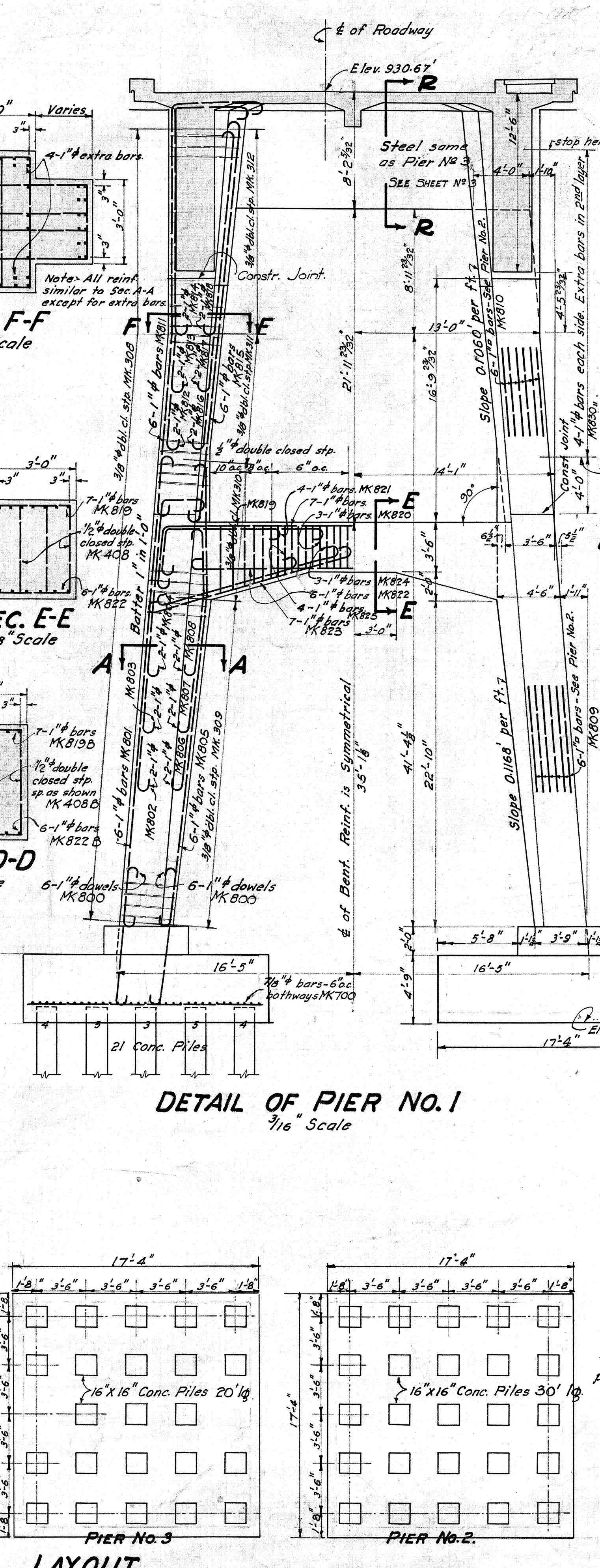
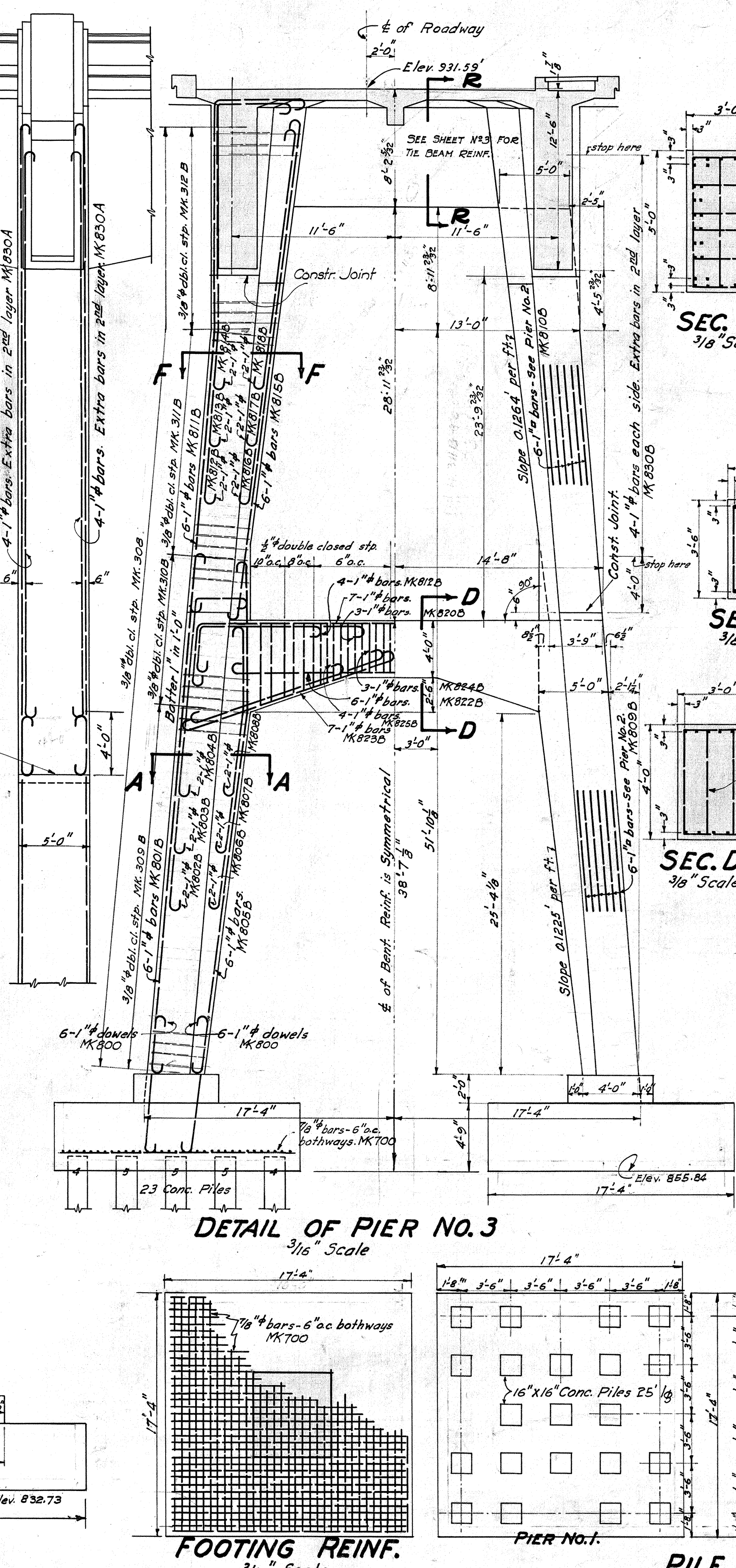
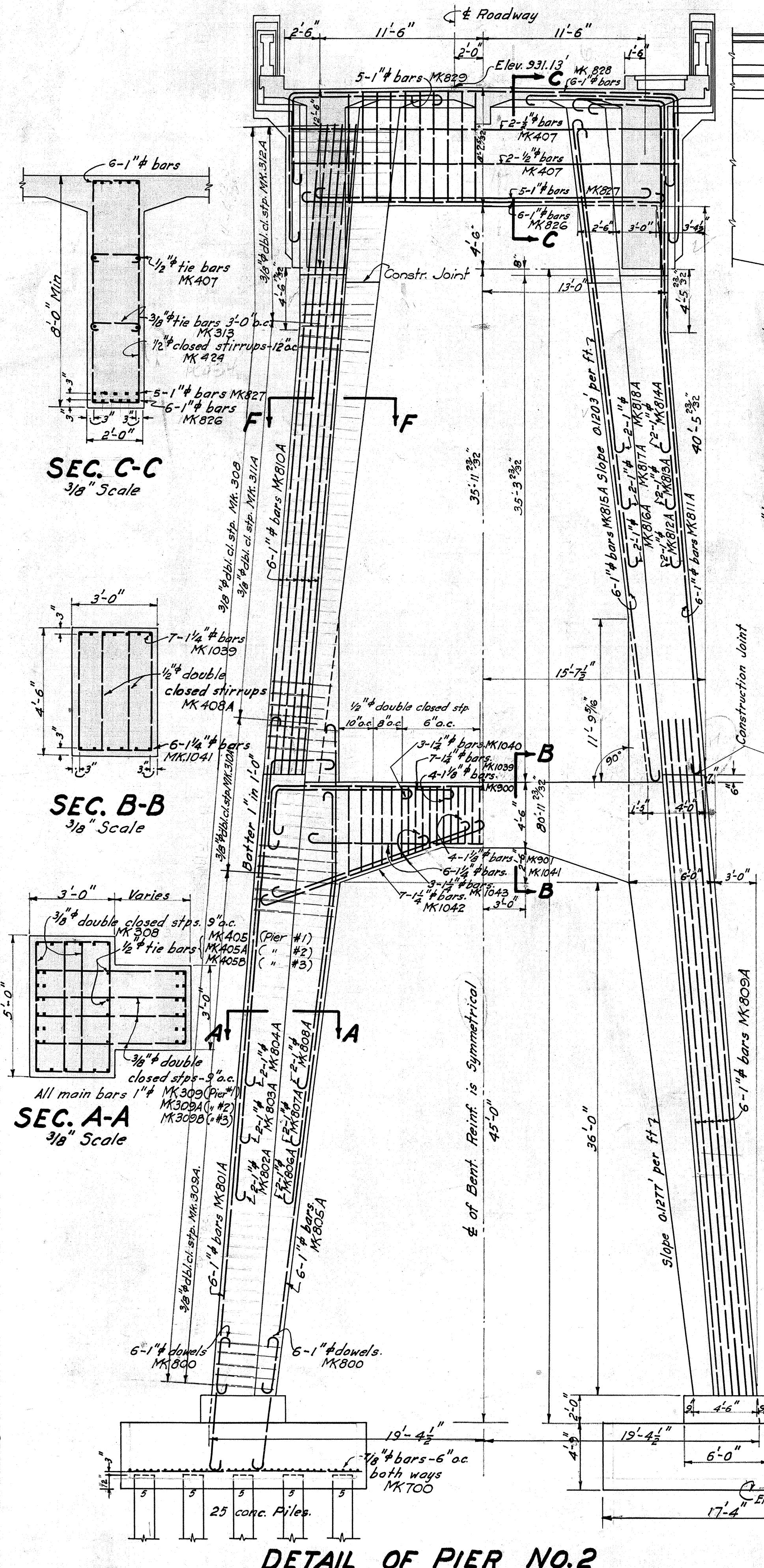


DIAGRAM OF TYPICAL 15 TON TRUCK

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UPPER POAMOHU BRIDGE
No. 1 STA. 30+97.50 TO STA. 35+02.50
WAIHAWA WAIALUA ROAD N.R.S. 21-A
NOV. 1935 SCALES AS NOTED
SHEET NO. 17 OF 43 SHEETS

SURVEY PLOTTED BY: W.B.B.
 DESIGNED BY: C.F.M.
 DRAWN BY: C.F.M.
 CHECKED BY: C.F.M.
 DATE: May 1935
 REVISIONS: None
 NOTE: This drawing is a reproduction of the original drawing and is not to be used for construction purposes.

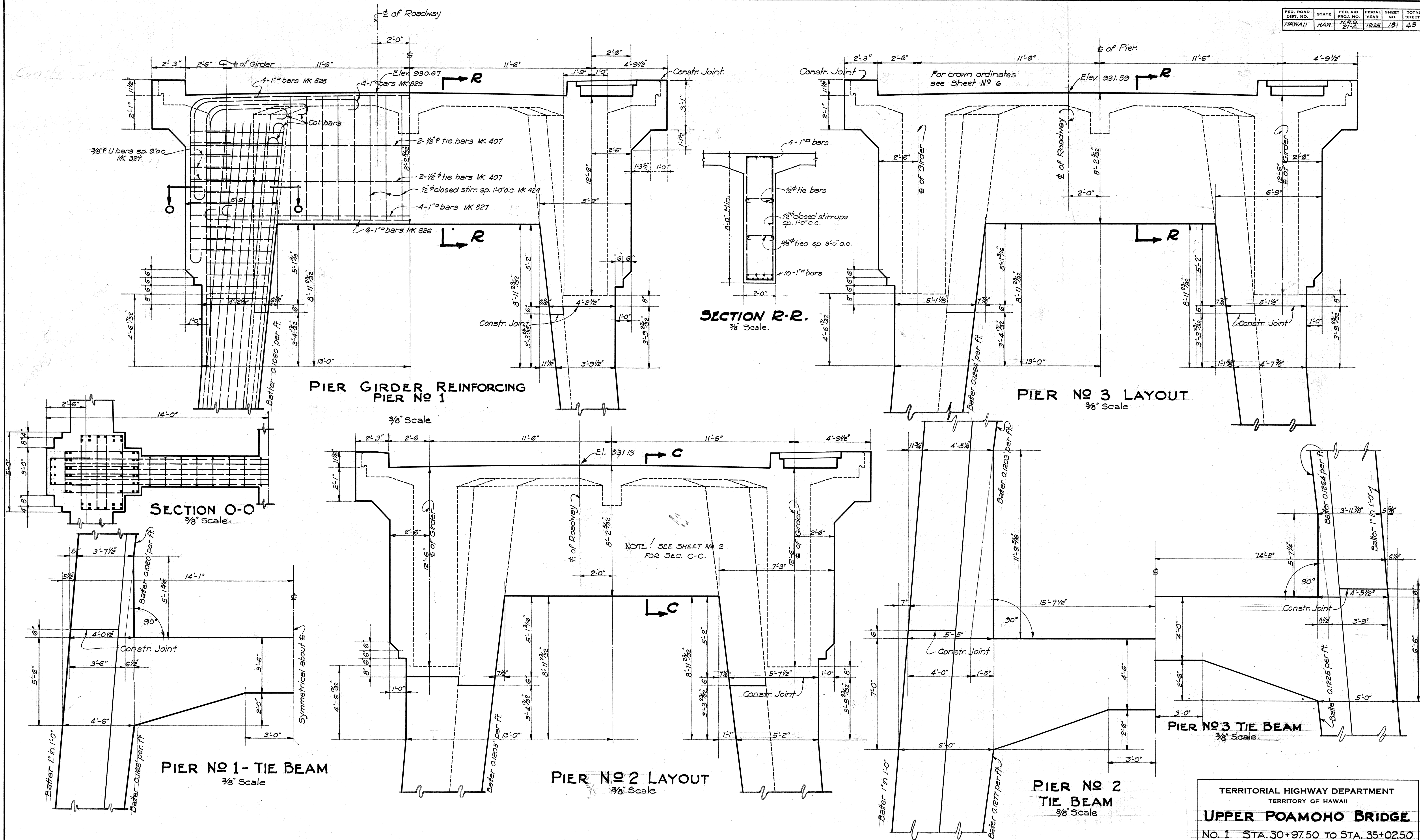
Rev. by J.C.M. Pigs enlarged & deepened May 1936



Note!
 Piles to be driven to bearing capacity of not less than 33 tons

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
UPPER POAMOHU BRIDGE
 NO. 1. STA. 30+97.50 TO STA. 35+02.50
 WAHIAWA WAIALUA ROAD N.R.S. 21-A
 NOV. 1935 SCALES AS NOTED
 SHEET NO. 2 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	N.R.S. 21-A	1935	19	43



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	"
	DRAWN BY	"
	TRACED BY	"
NOTE BOOK	QUANTITIES BY	"
No.	CHECKED BY	"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

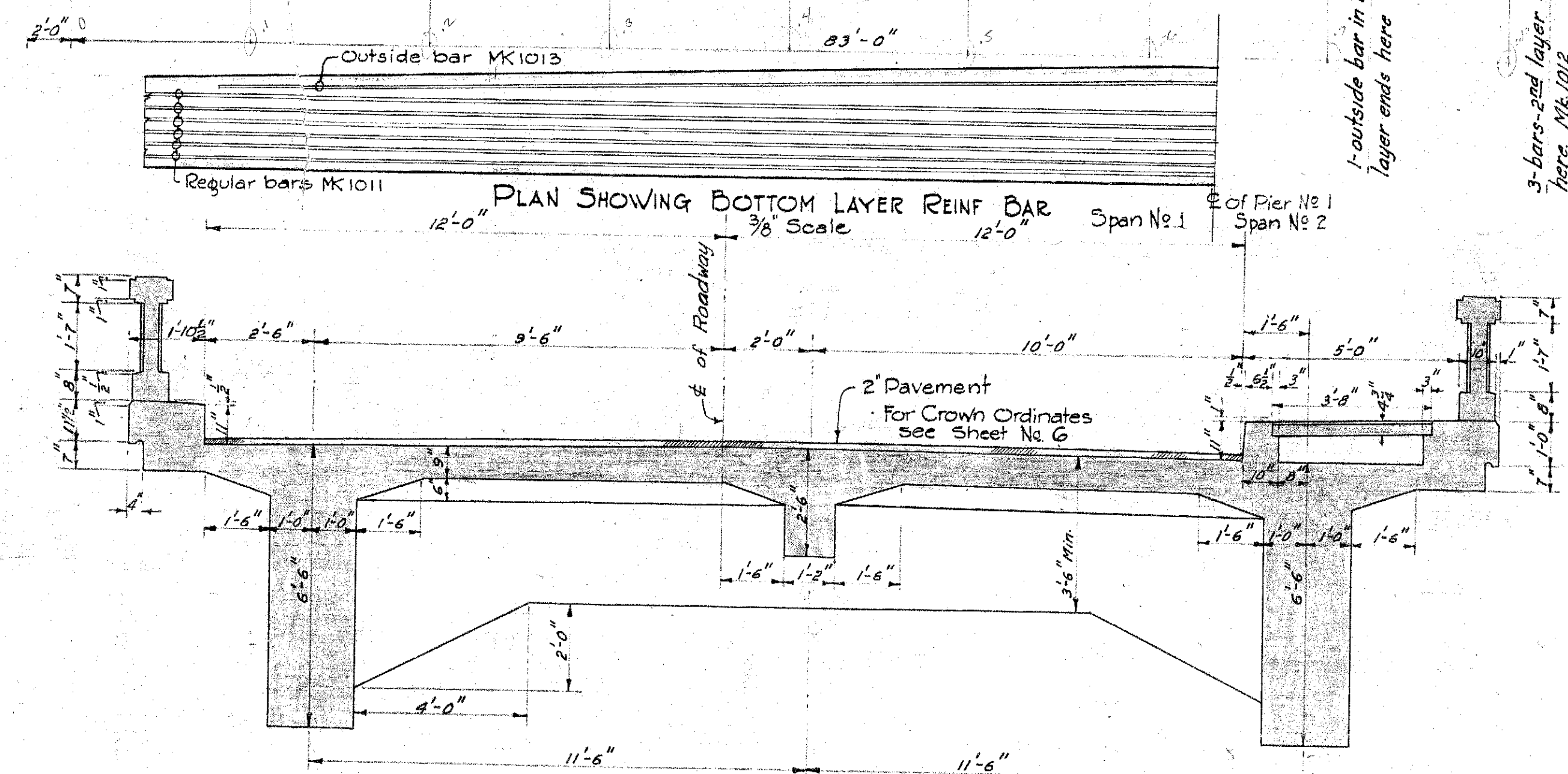
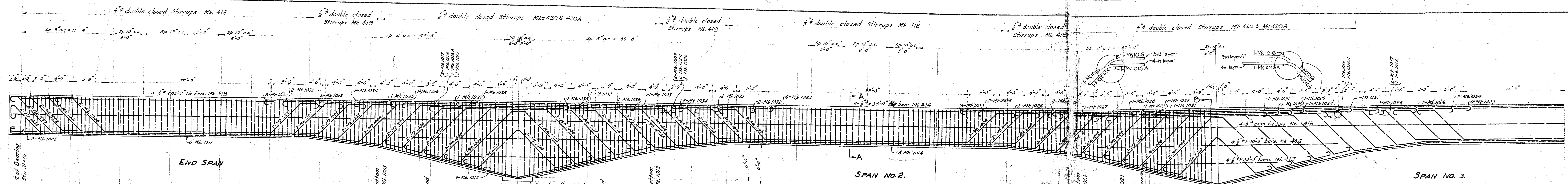
UPPER POAMOHO BRIDGE

NO. 1 STA. 30+97.50 TO STA. 35+02.50
WAHIWA WAIALUA ROAD N.R.S. 21-A

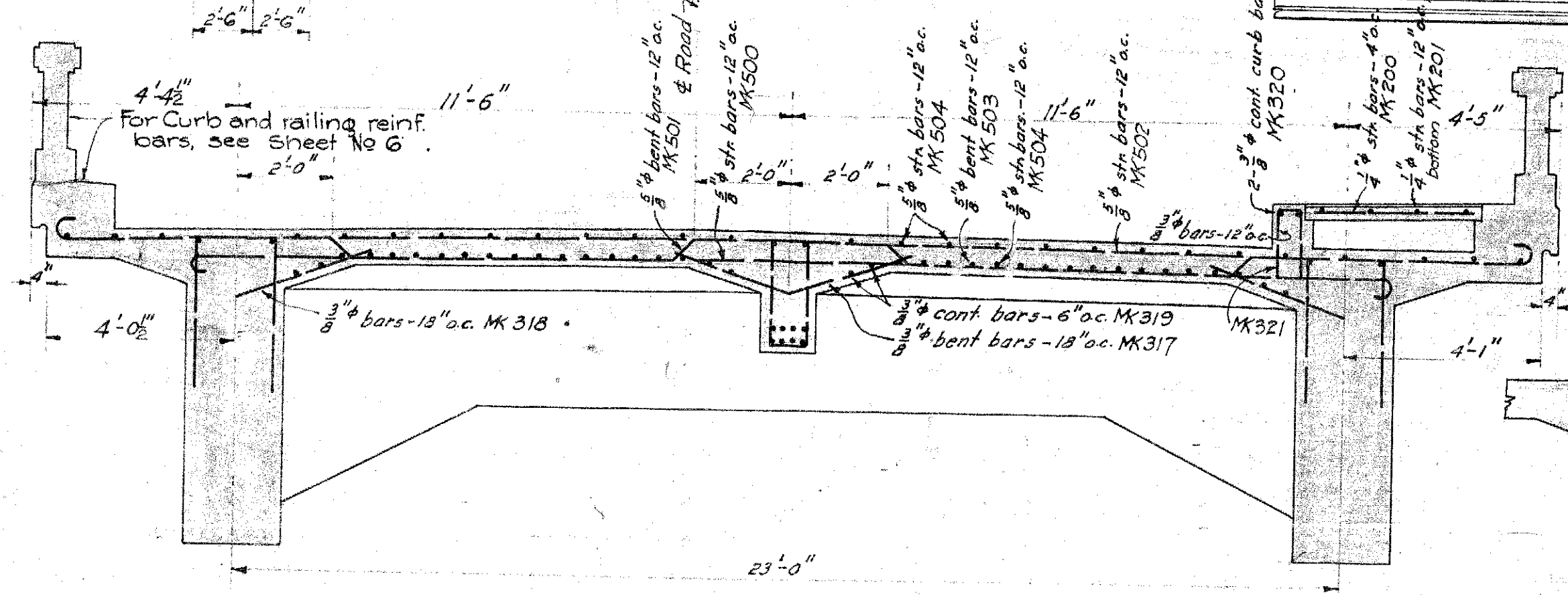
NOV. 1935 SCALES AS NOTED.

SHEET NO 3 OF 10 SHEETS

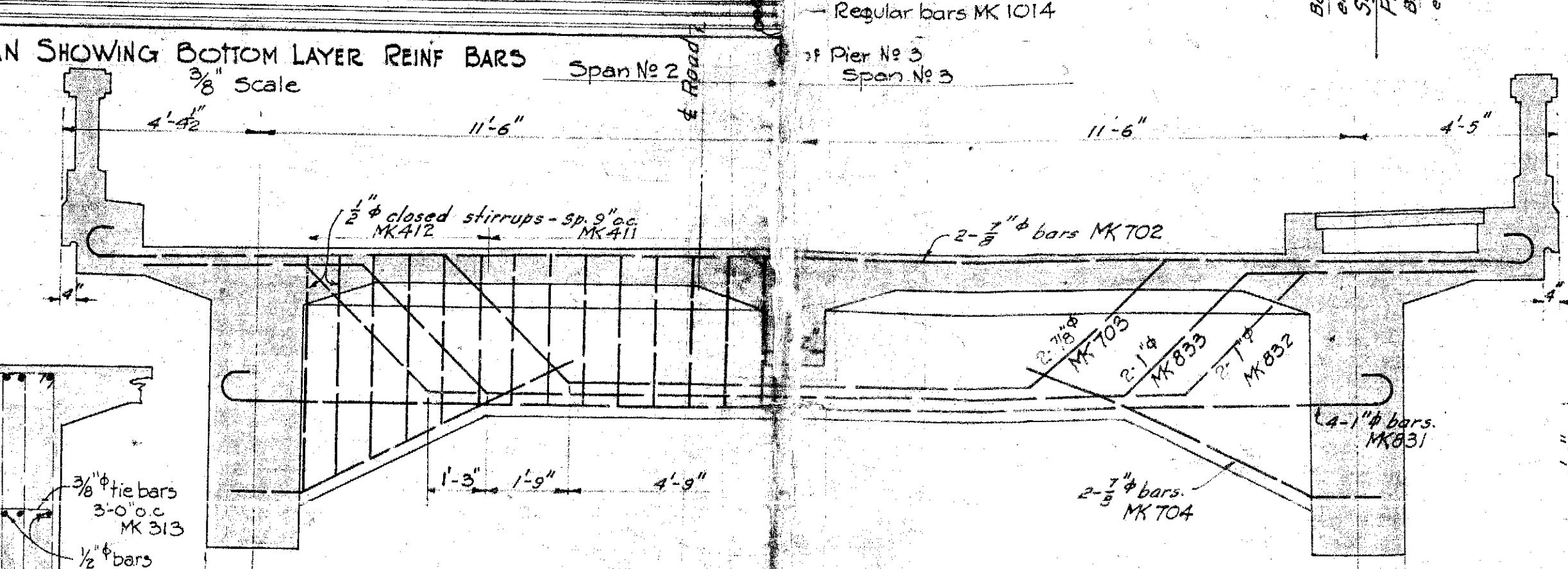
NO.	DATE	BY	CHKD.	APPROVED	REVISION
1	NOV. 1935	W.B. C.F.W.	C.F.W.	W.B. C.F.W.	



TYPICAL CROSS SECTION
3/8 Scale

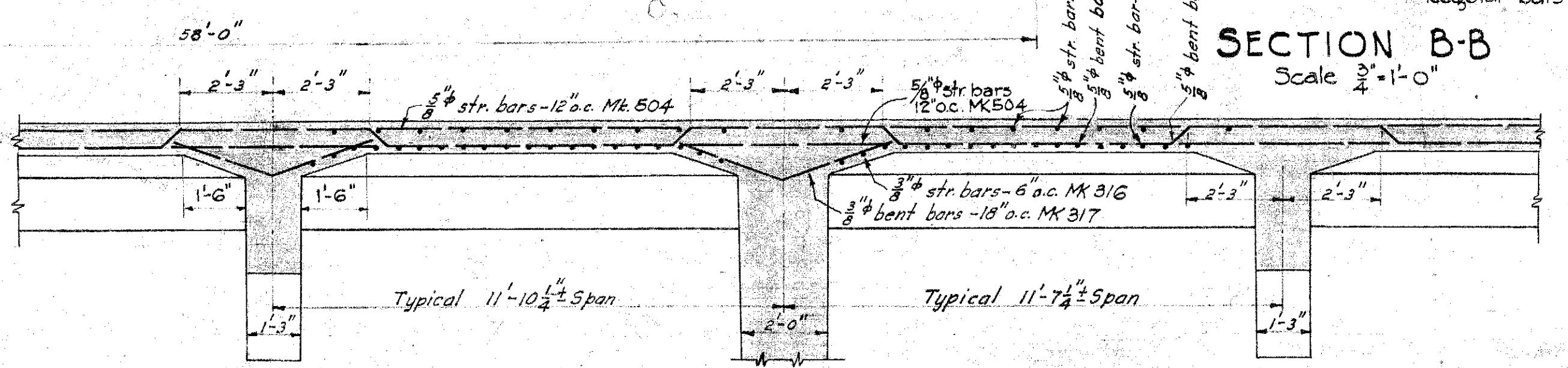


SEC. SHOWING SLAB REINF.
3/8 Scale

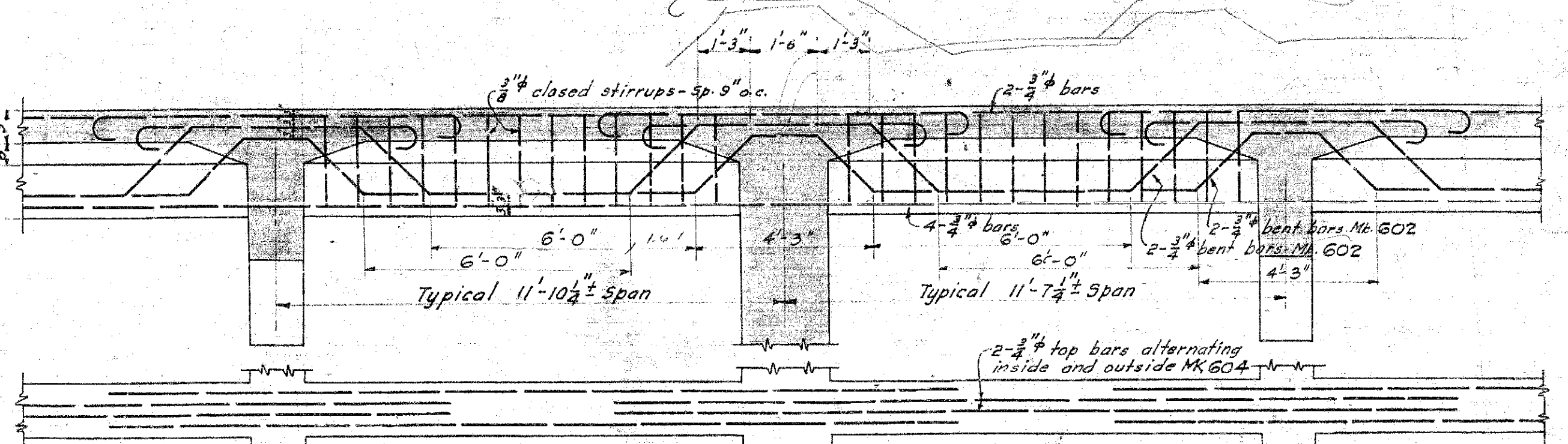


SECTION A-A
3/8 Scale

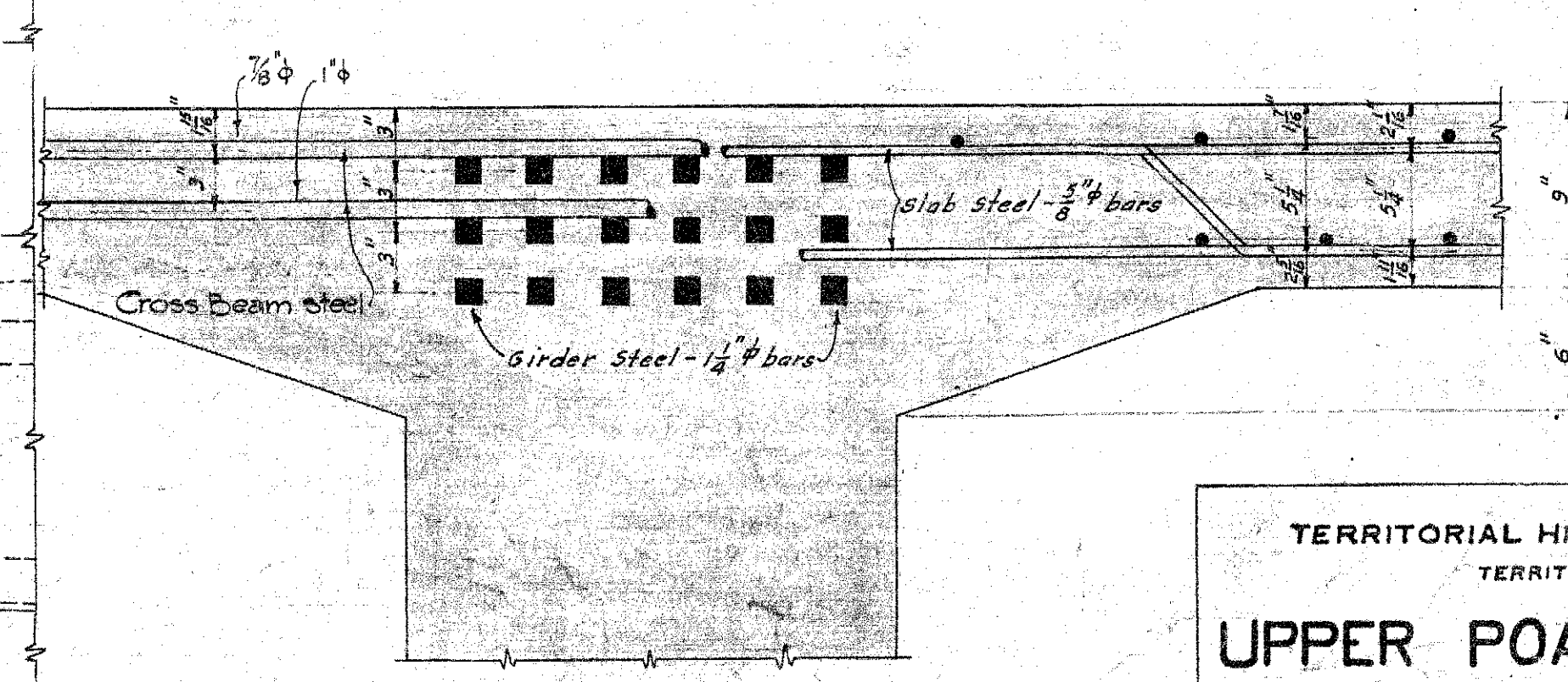
CROSS BEAM REINF.
3/8 Scale



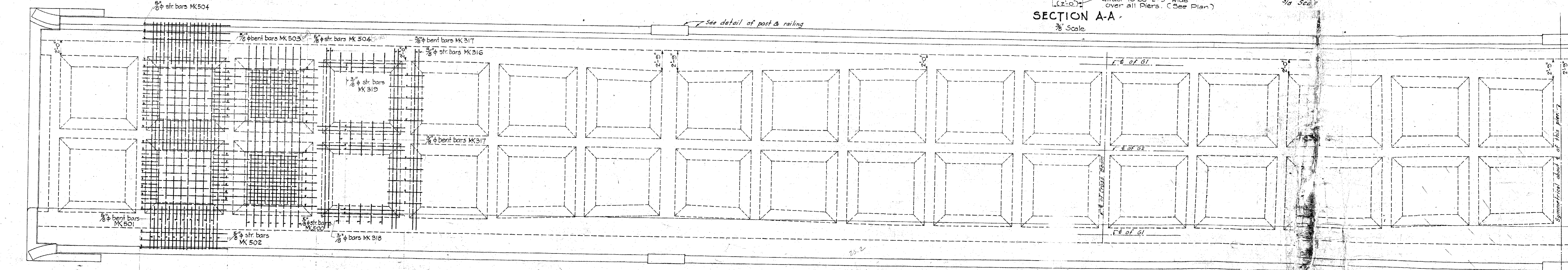
LONGITUDINAL SEC. SHOWING SLAB REINF.
3/8 Scale



PLAN SHOWING ARRANGEMENT OF TOP BARS
REINFORCING FOR G-2
3/8 Scale



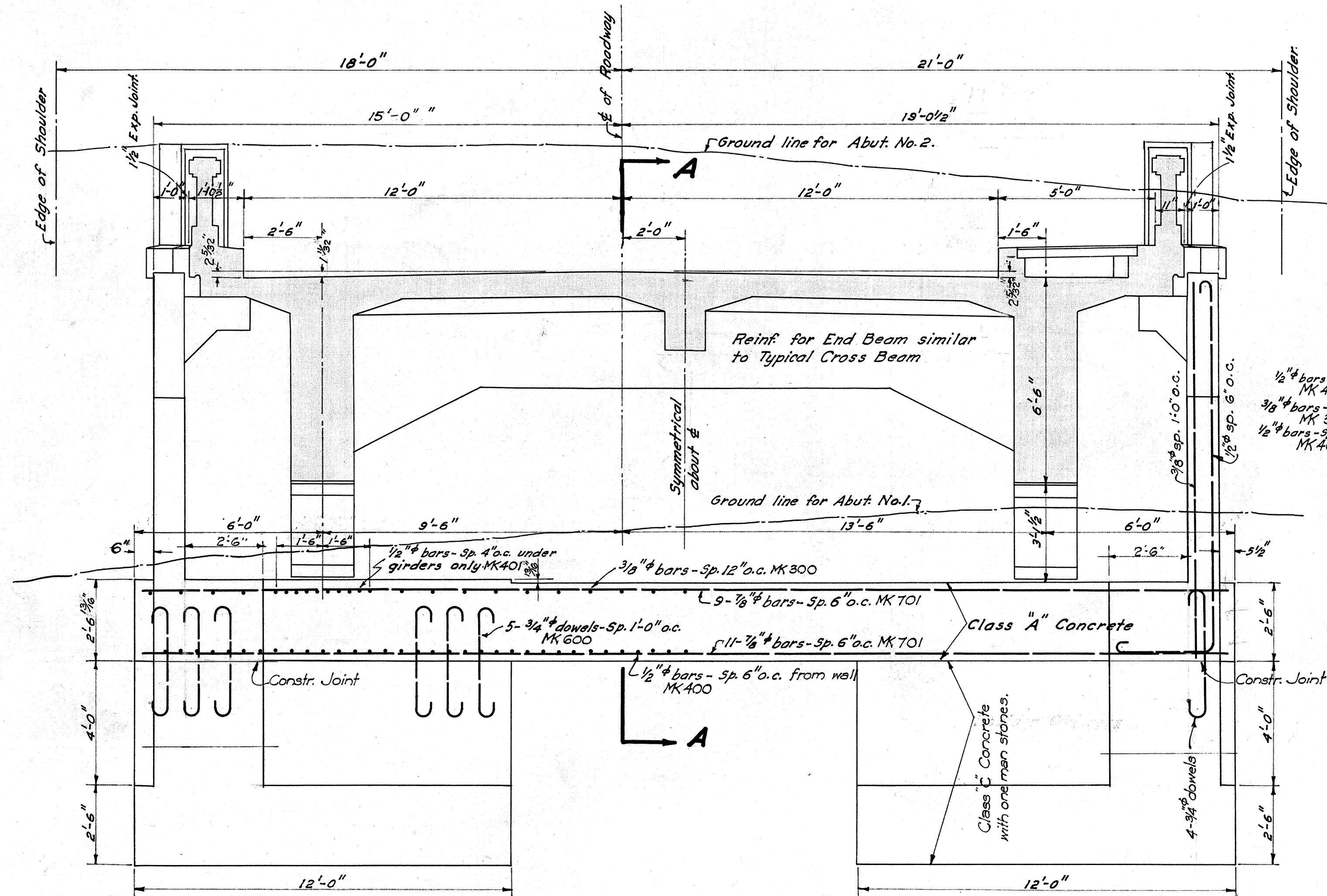
SEC. SHOWING REINF.
1 1/2 Scale



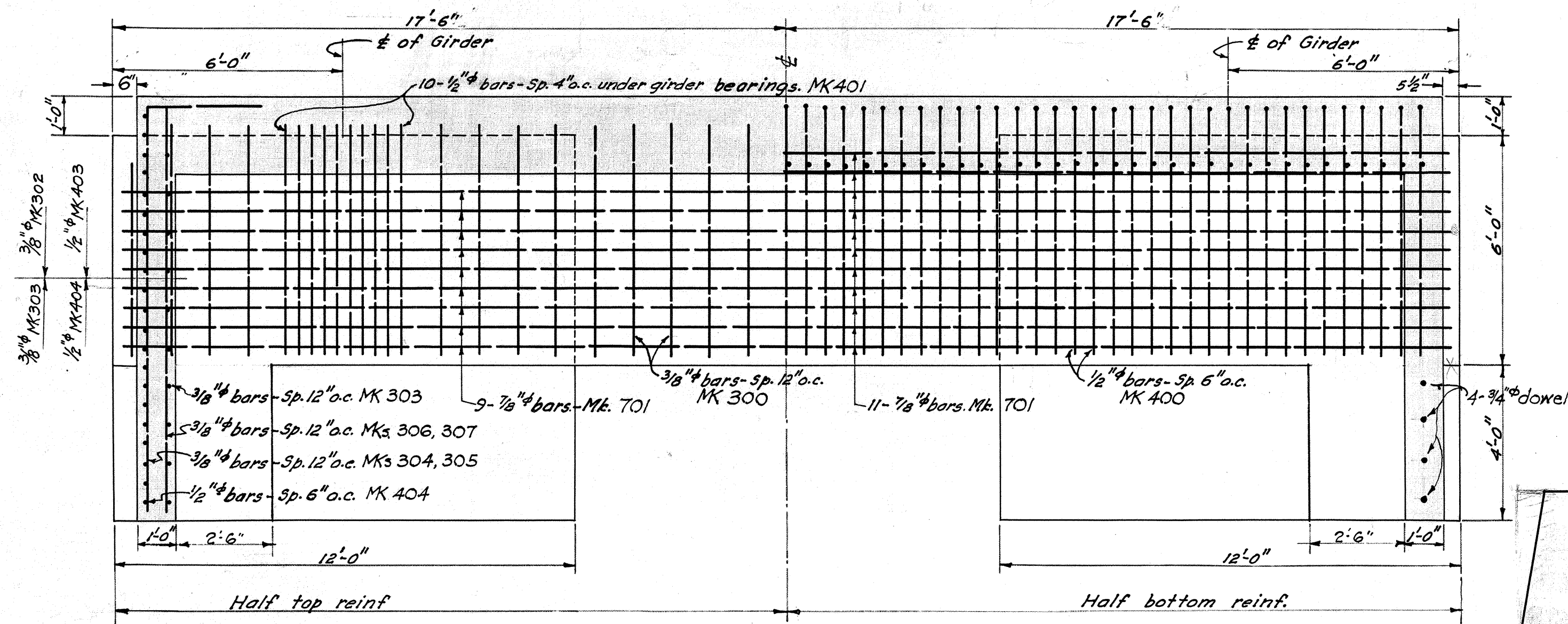
REINF. LAYOUT FOR SLAB
3/8 Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UPPER POAMOHU BRIDGE
NO. 1. STA. 30+97.50 TO STA. 35+02.50
WAHIAWA WAIALUA ROAD N.R.S. 21-A
NOV. 1935 SCALES AS NOTED
SHEET NO. 4 OF 10 SHEETS

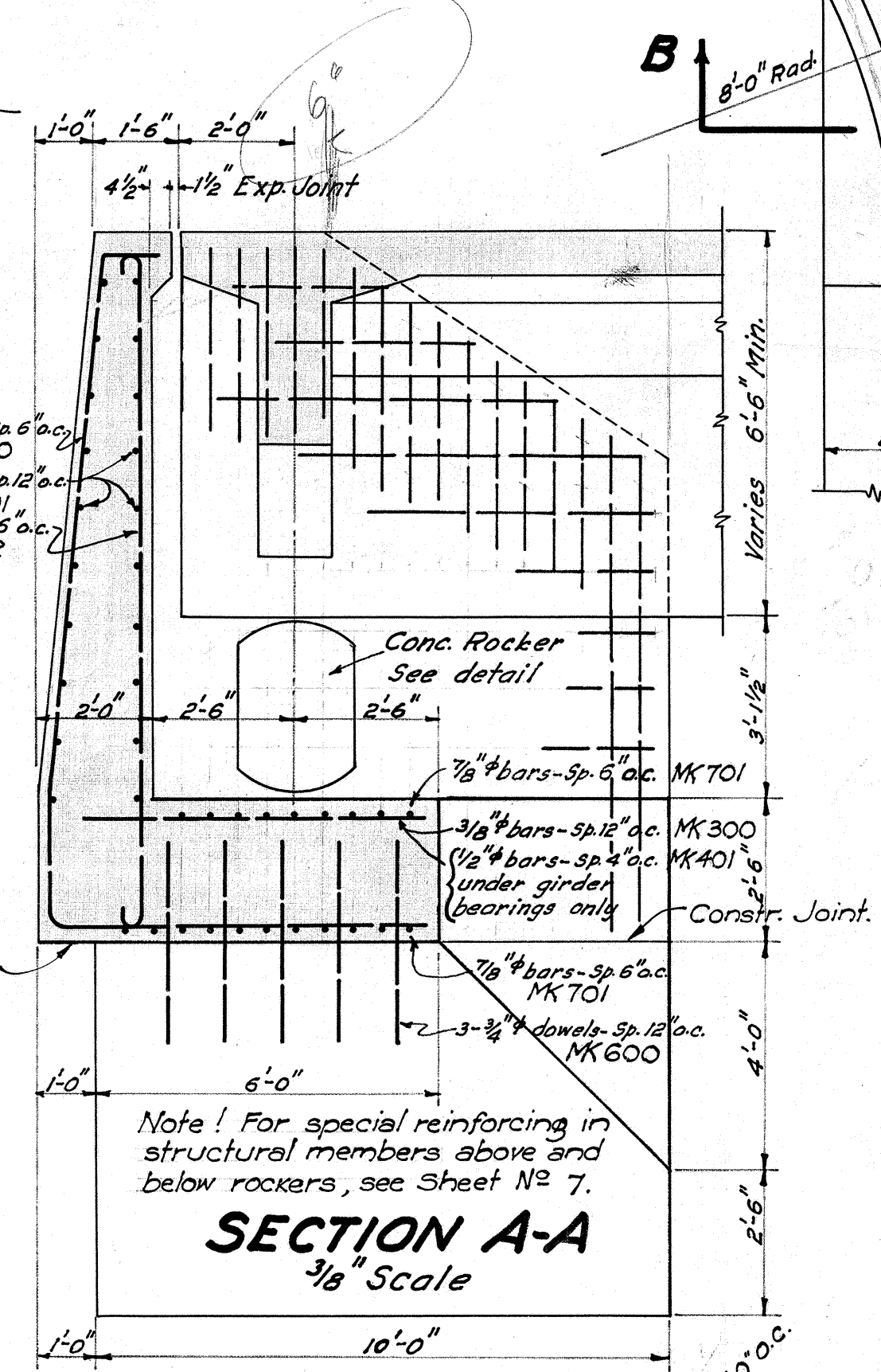
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	N.R.S.-21-A	1935	21	43



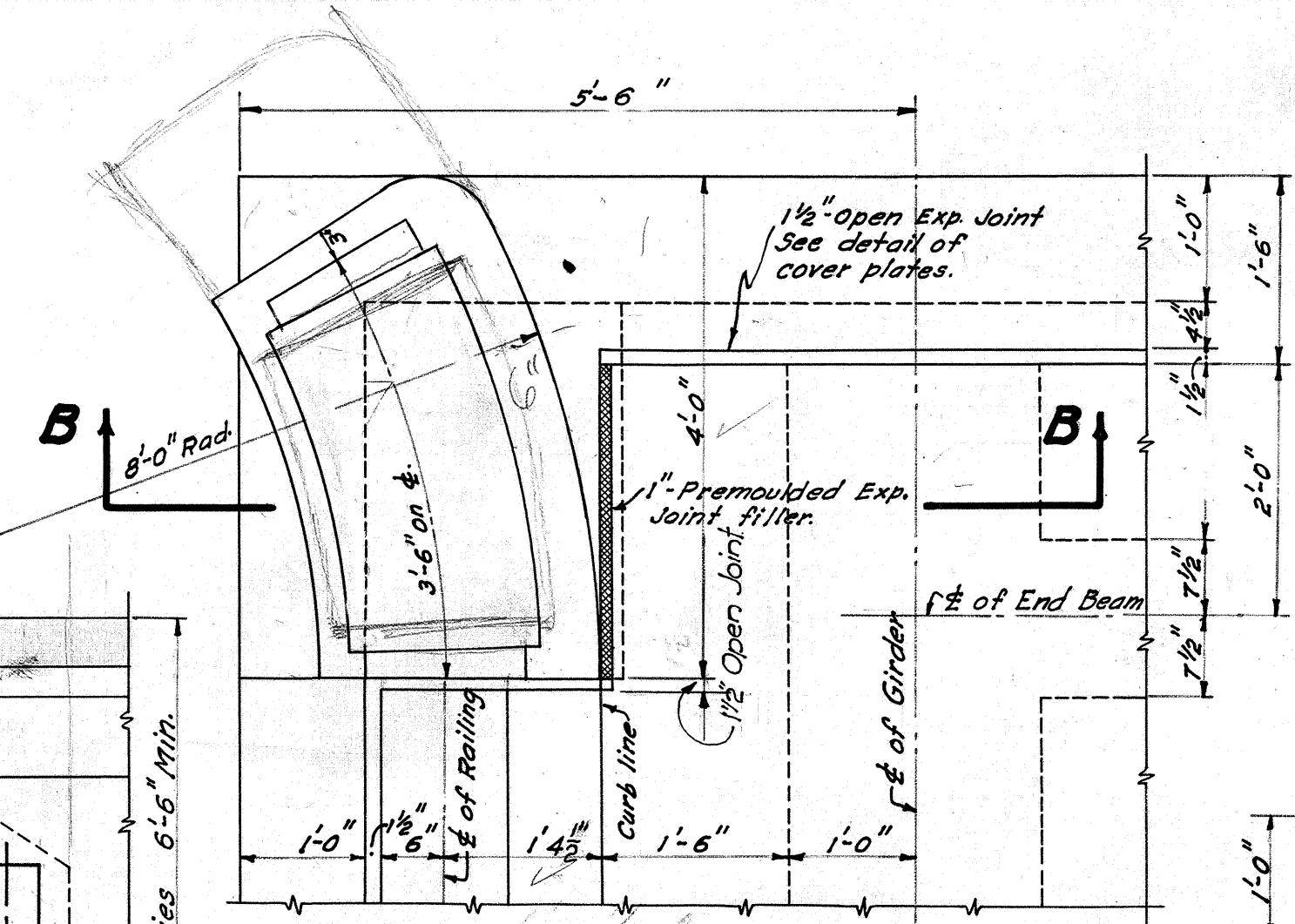
ABUTMENT NO. 2.
3/8" Scale
ABUTMENT NO. 1 IS SIMILAR



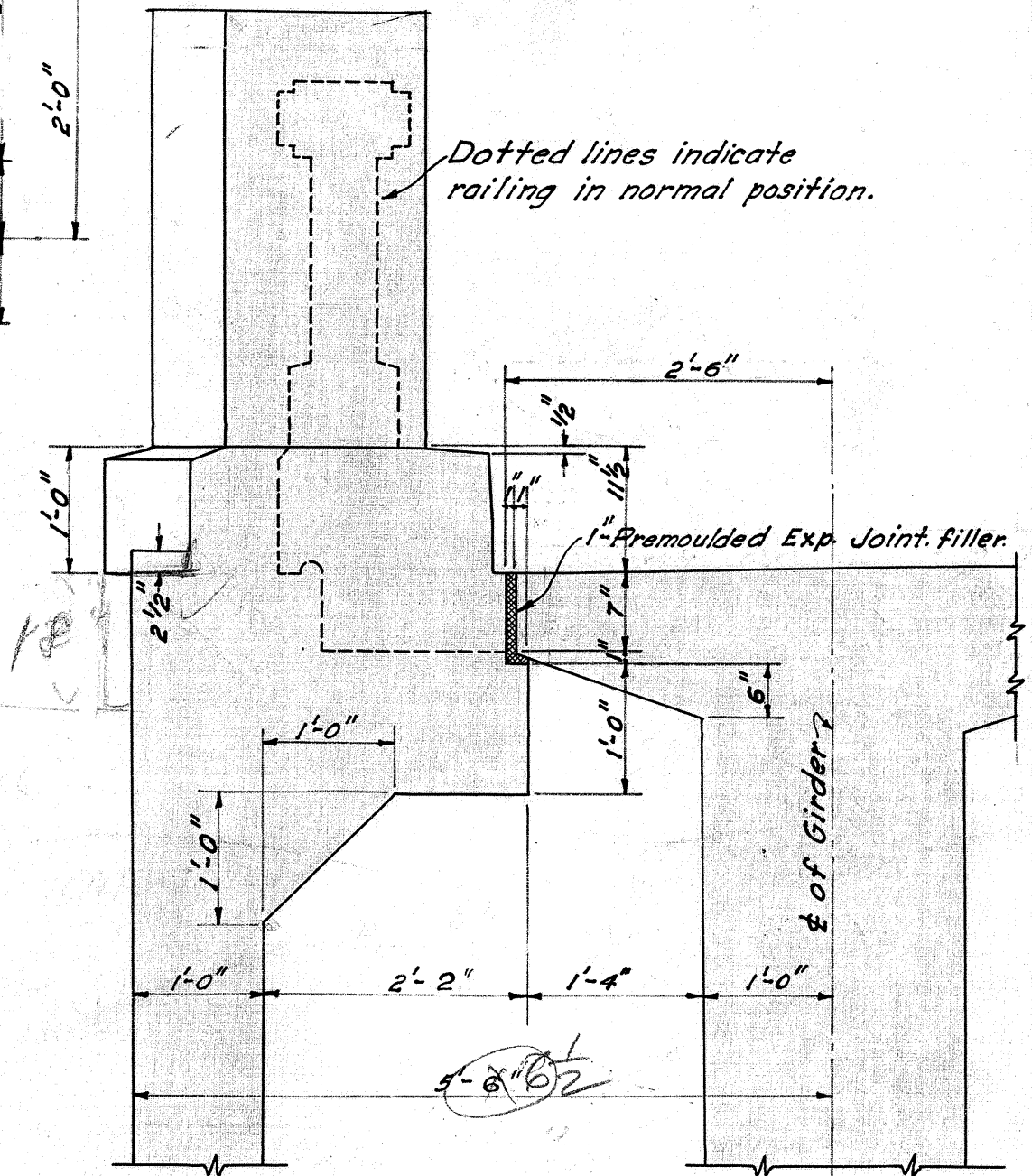
ABUTMENT FOOTING REINF.
3/8" Scale



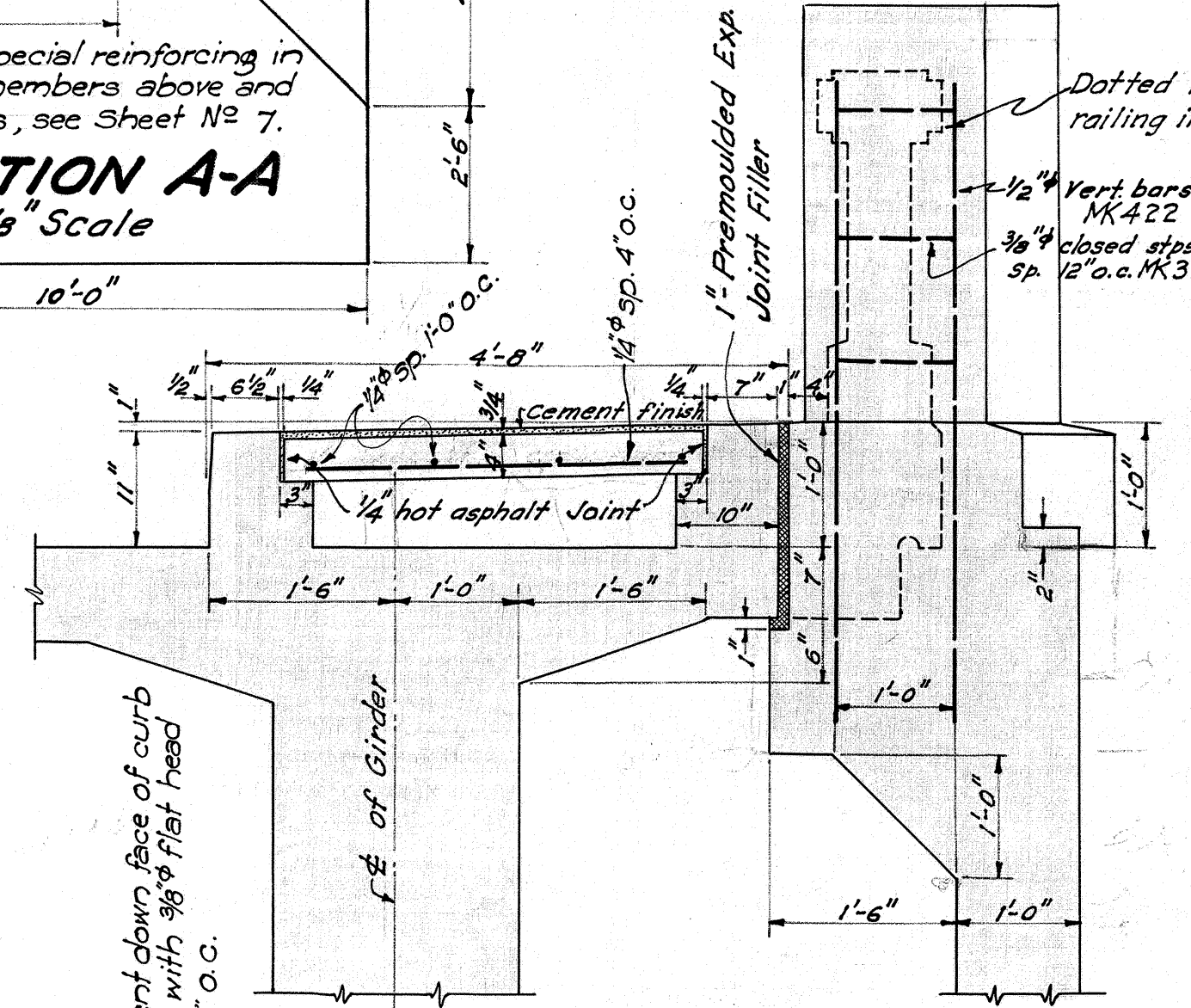
SECTION A-A
3/8" Scale



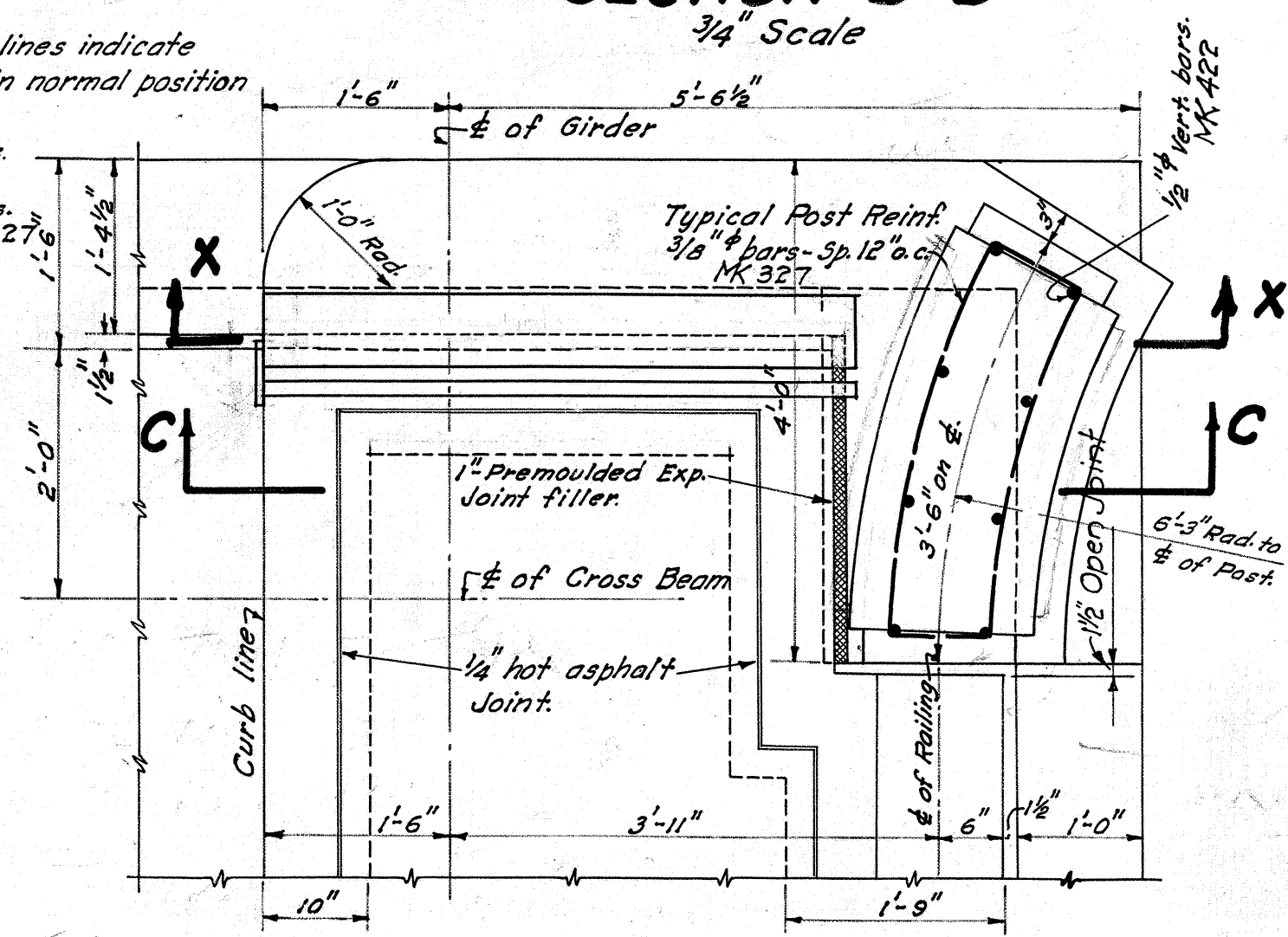
PLAN OF END POST
NORMAL SIDE
3/4 Scale



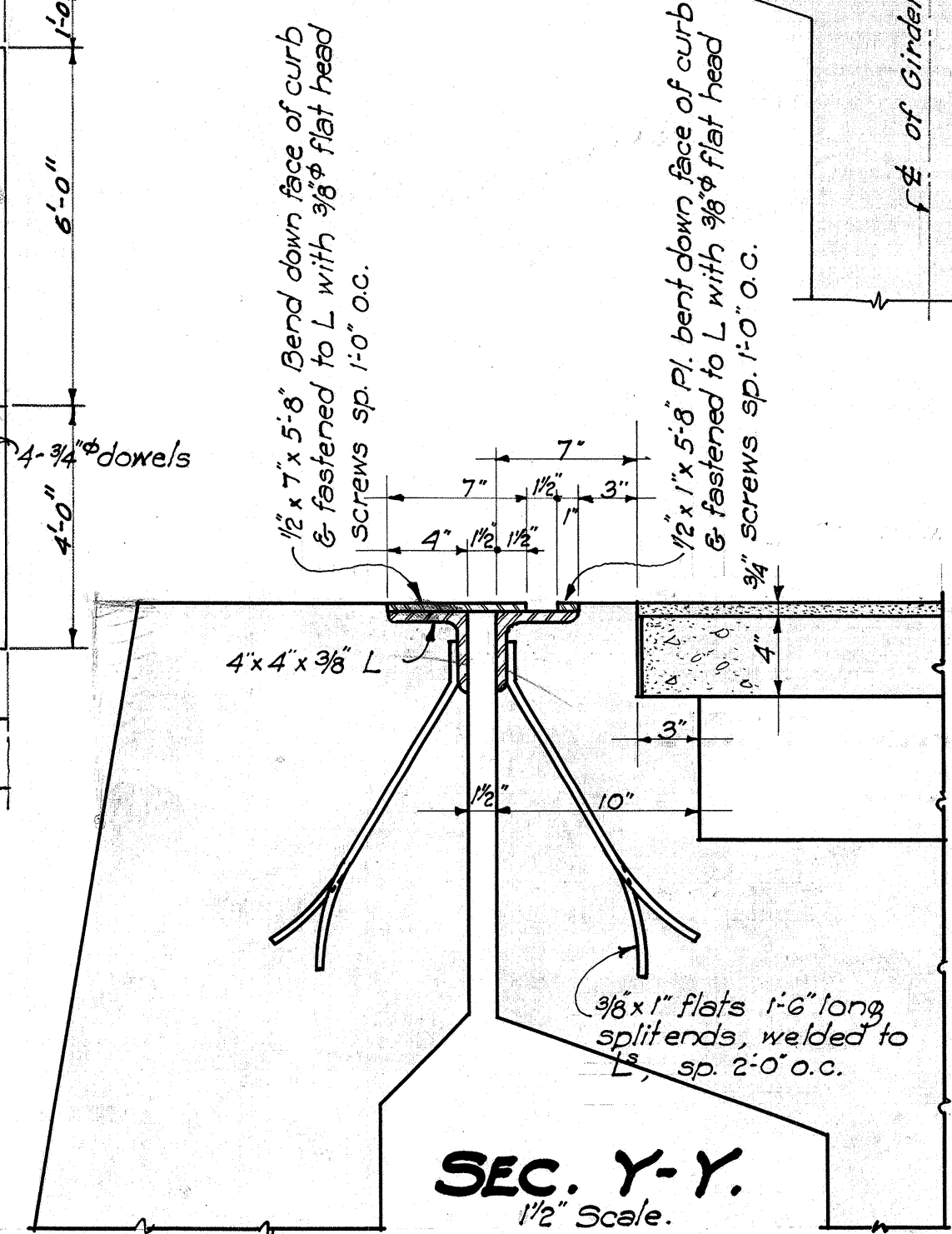
SECTION B-B
3/4 Scale



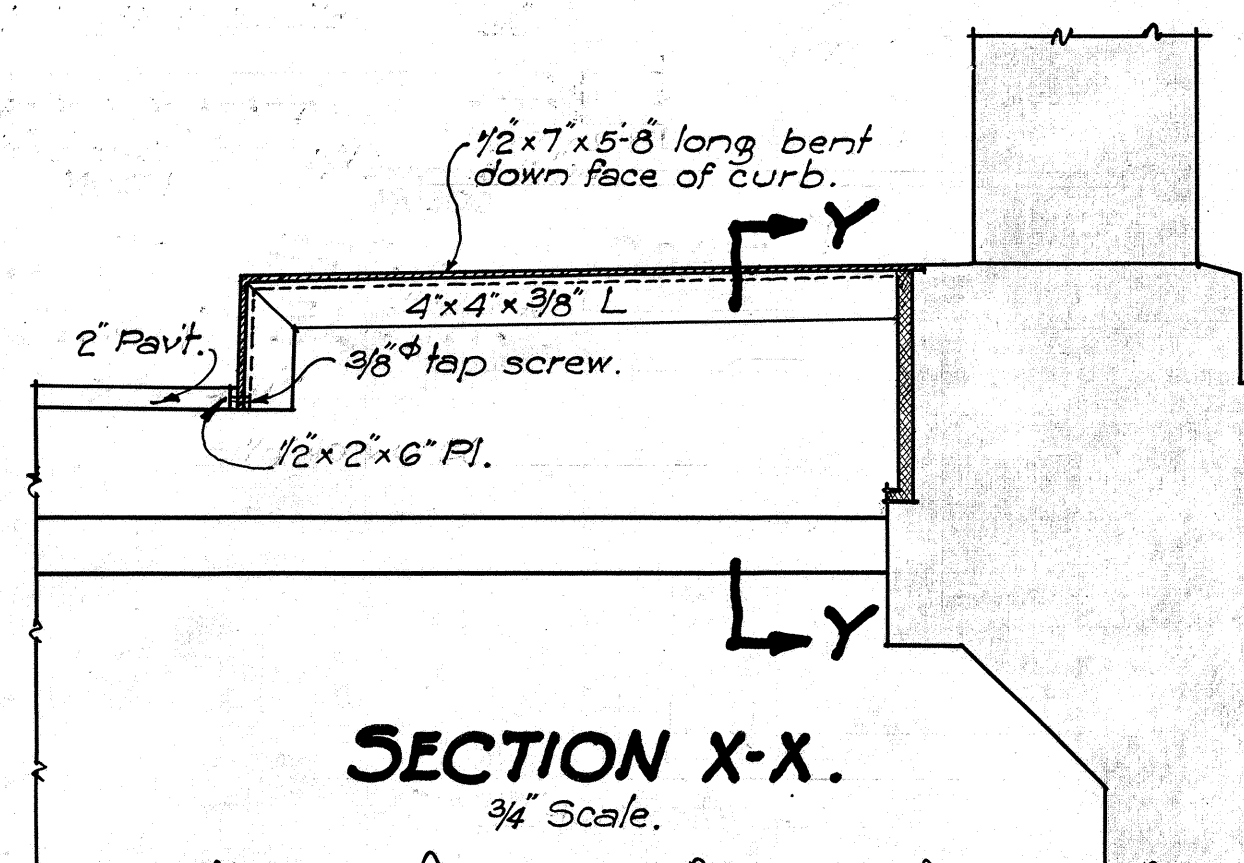
SECTION C-C
3/4 Scale



PLAN OF END POST
SIDEWALK SIDE
3/4 Scale



SEC. Y-Y.
1 1/2" Scale



SECTION X-X.
3/4 Scale

Note! Reinforcing for Normal End Post shall be similar to that shown for Sidewalk Post.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UPPER POAMOHU BRIDGE
NO. 1. STA. 30+97.20 TO STA. 35+02.20
WAIHAWA WAIALUA ROAD N.R.S. 21-A
NOV. 1935 SCALES AS NOTED
SHEET NO. 5 OF 10 SHEETS

Note! All structural steel members to be galvanized.

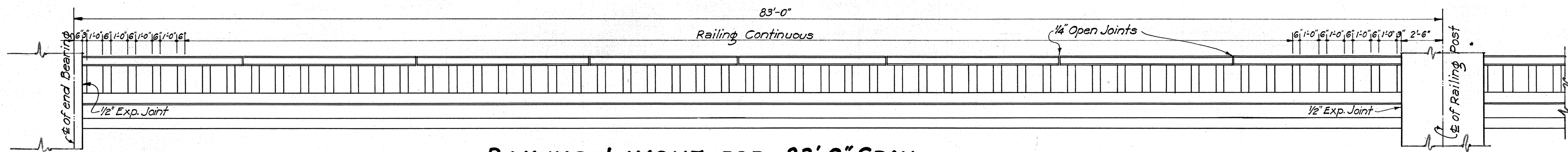
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REVISED JUNE 29 1936

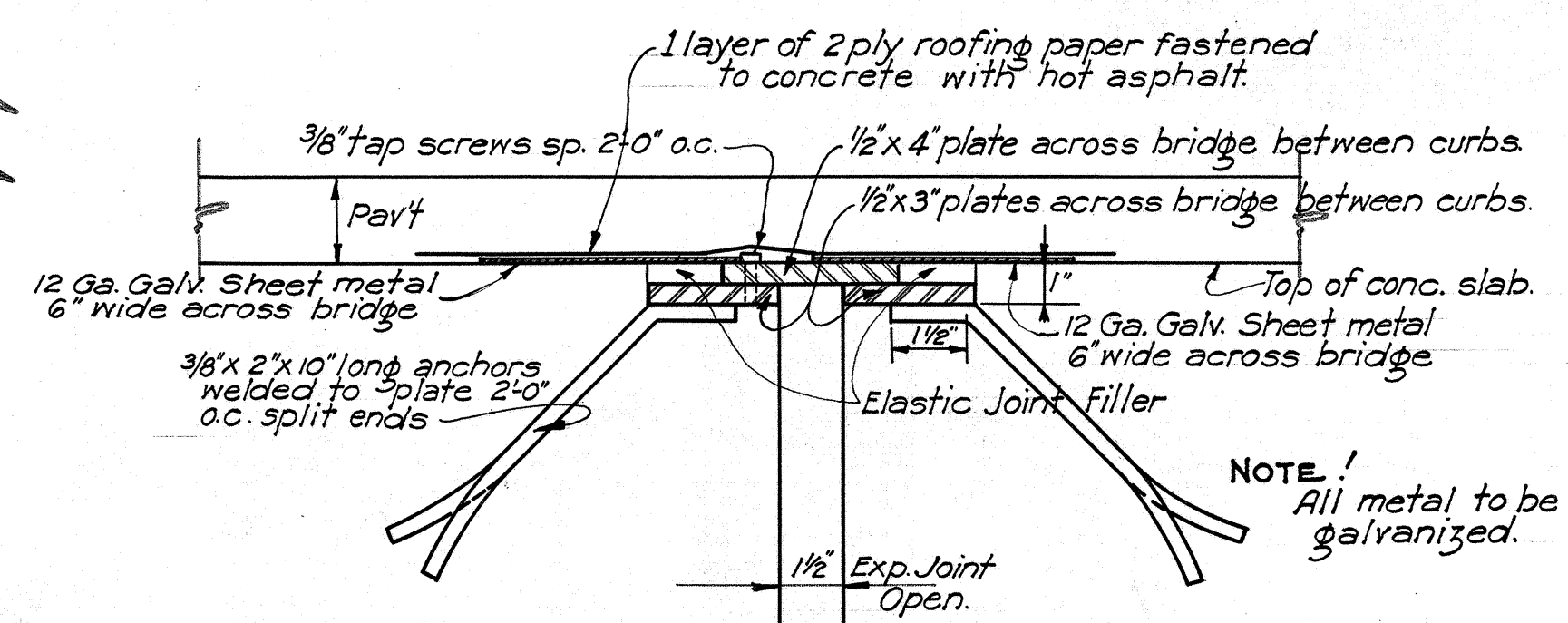
SUPPLEMENT TO
SHEET NO 4346.21A

N.R.S. 21-A.

JUNE 17 1936.

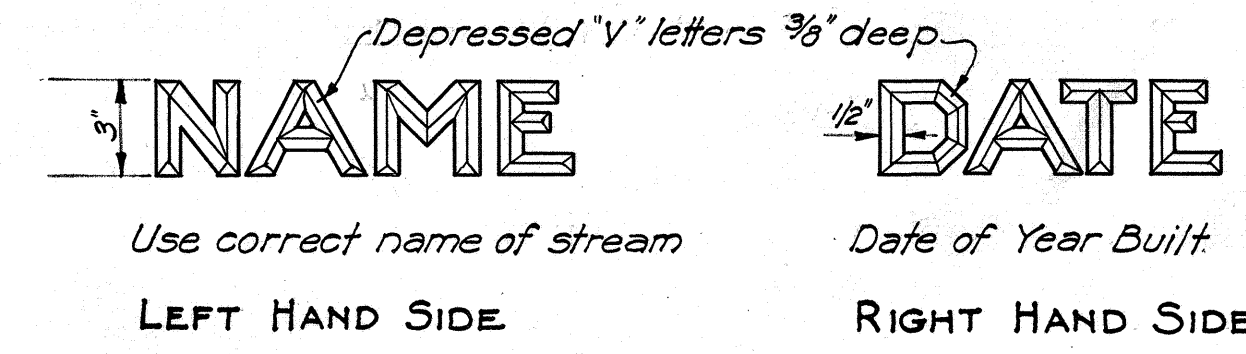


RAILING LAYOUT FOR 83'-0" SPAN
1/4" Scale



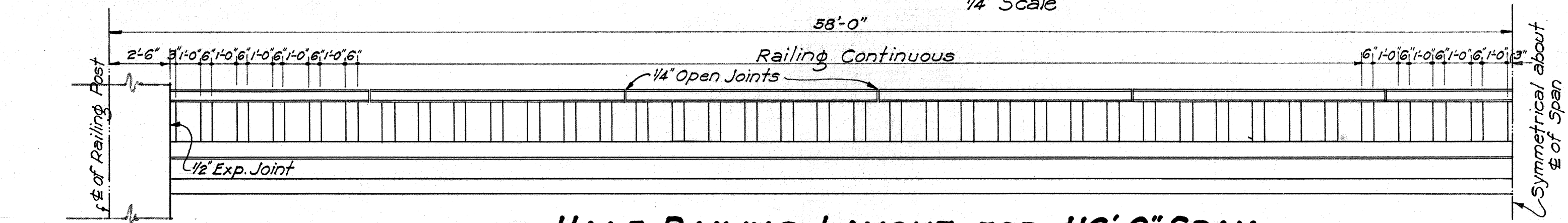
DETAIL OF EXPANSION JOINT

NOTE: Effective precautions must be taken by Contractor to prevent any leakage of pavement binder thru expansion joint at curbs.

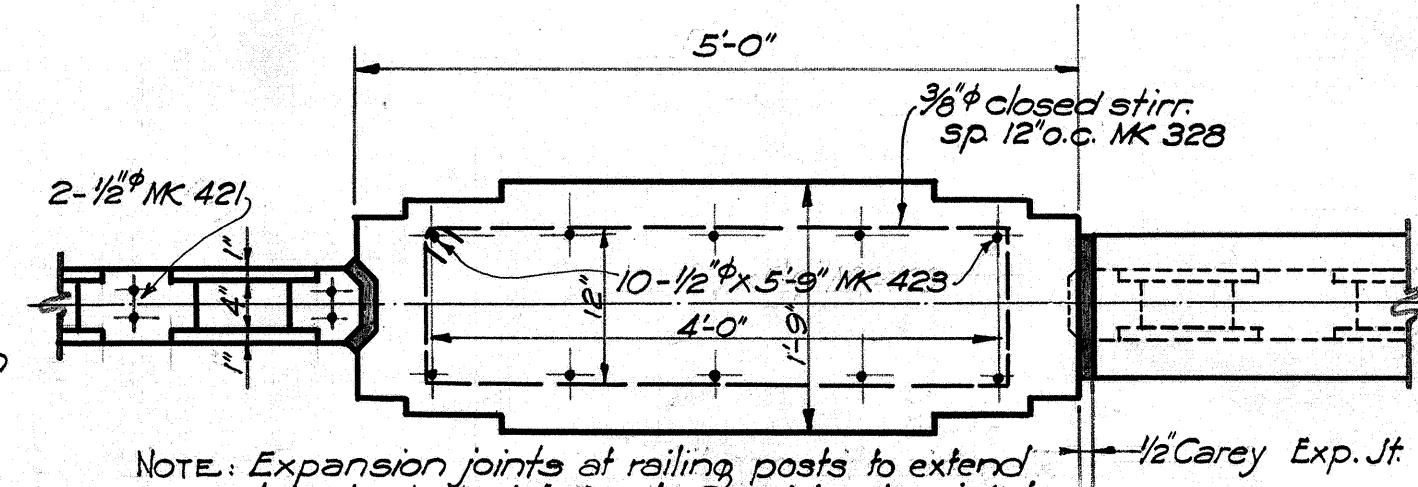


DETAIL OF LETTERS & FIGURES AT BOTH APPROCHES

NOTE: Name of Stream to be placed in left end post panels & date in right end post panels on entering bridge using standard block letters 3" in height.



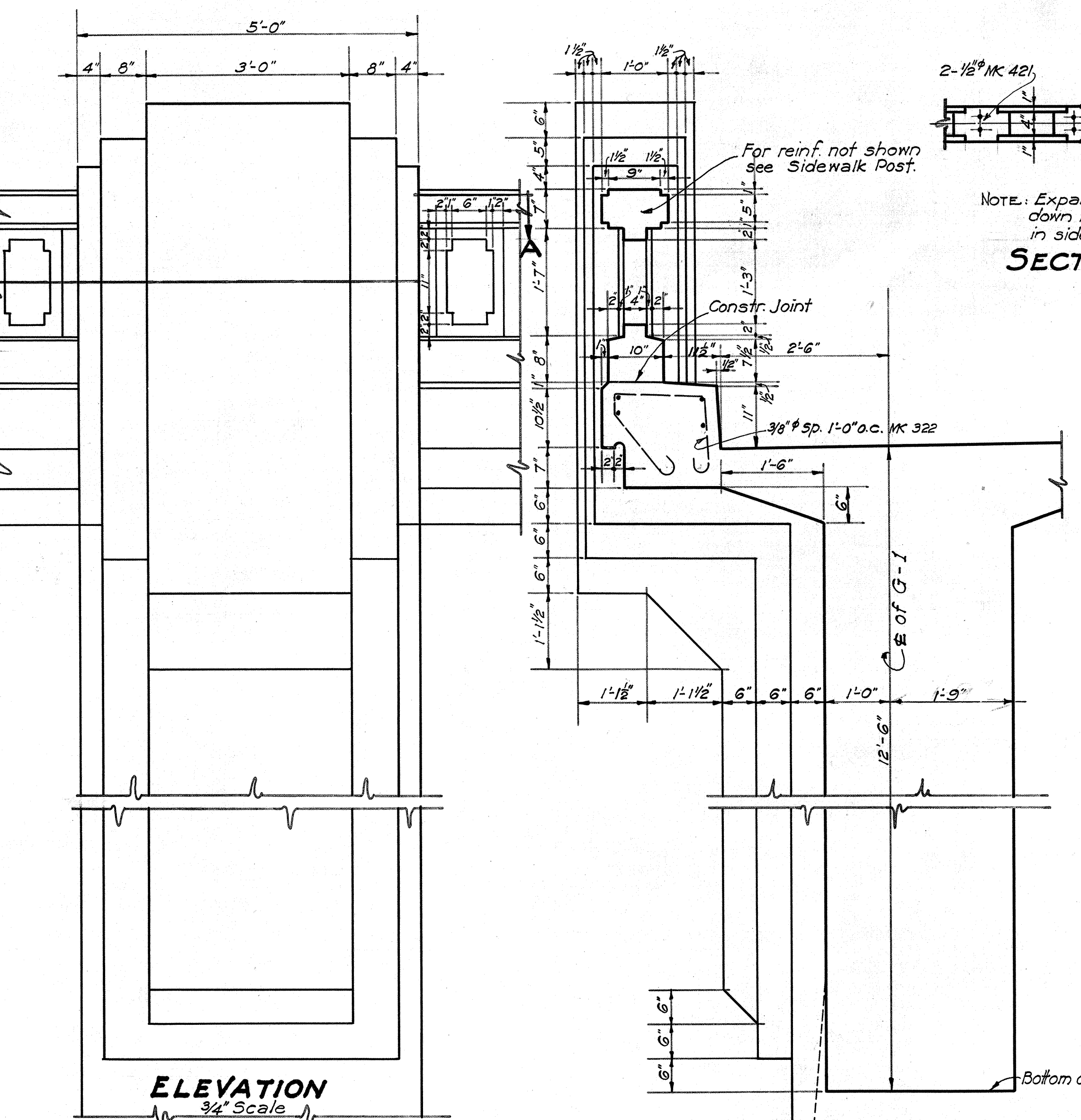
HALF RAILING LAYOUT FOR 116'-0" SPAN
1/4" Scale



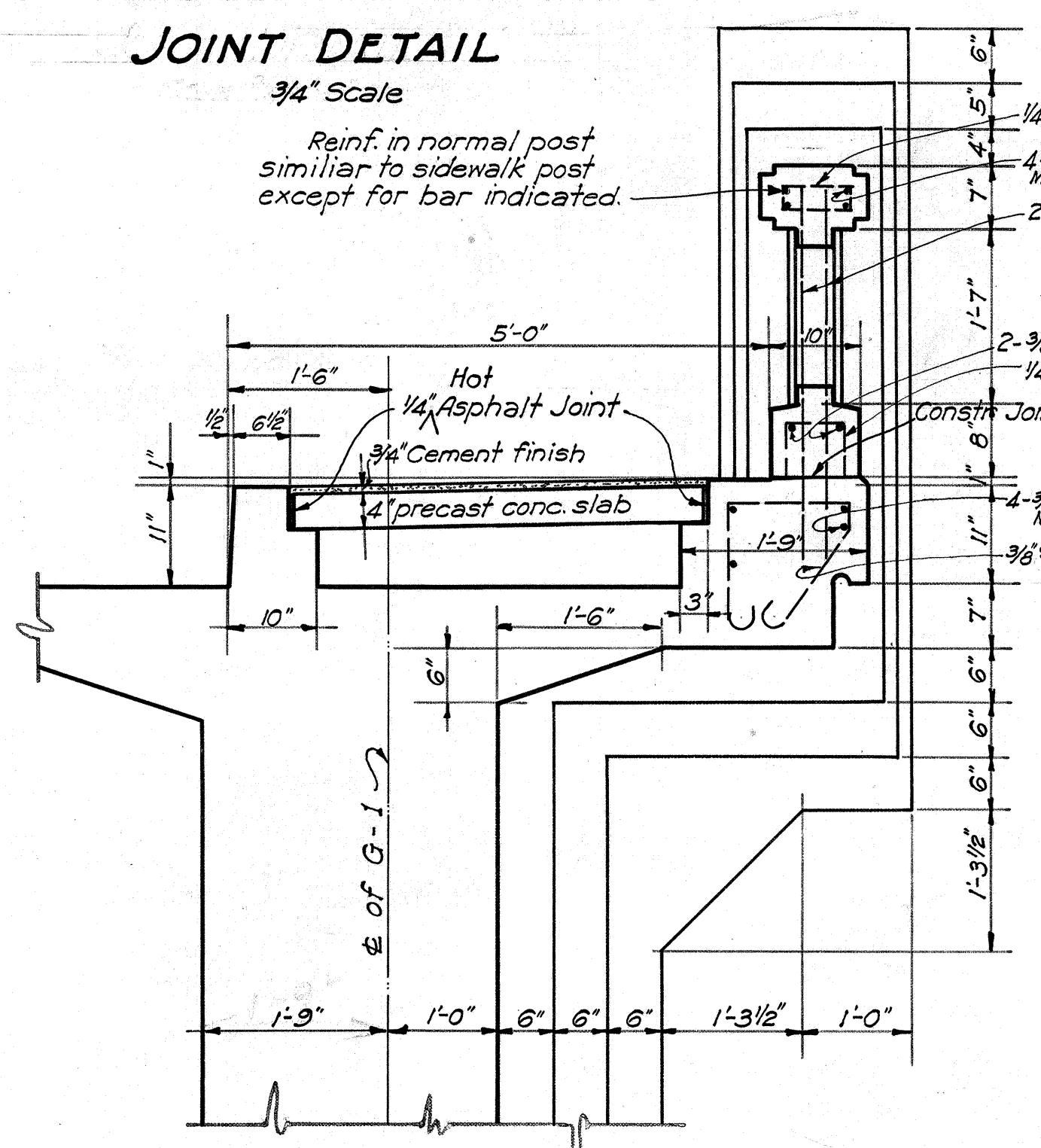
SECT. A-A SHOWING EXPANSION JOINT DETAIL

JOINT DETAIL
3/4" Scale

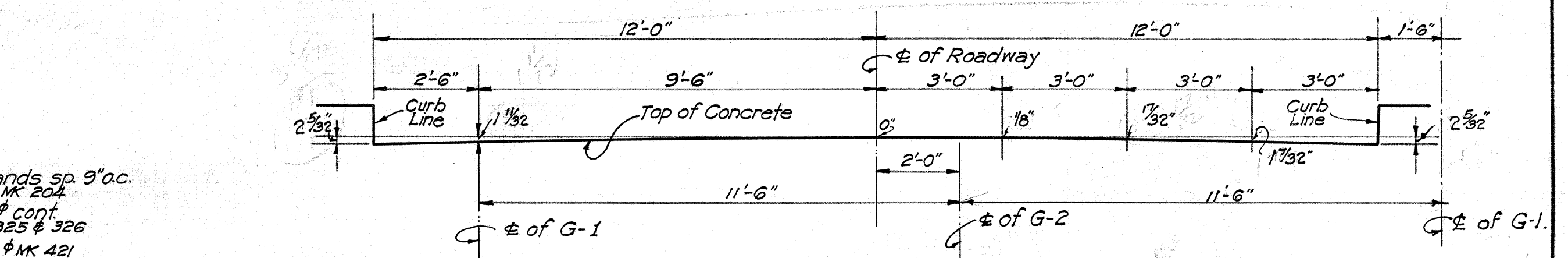
Reinf. in normal post similar to sidewalk post except for bar indicated.



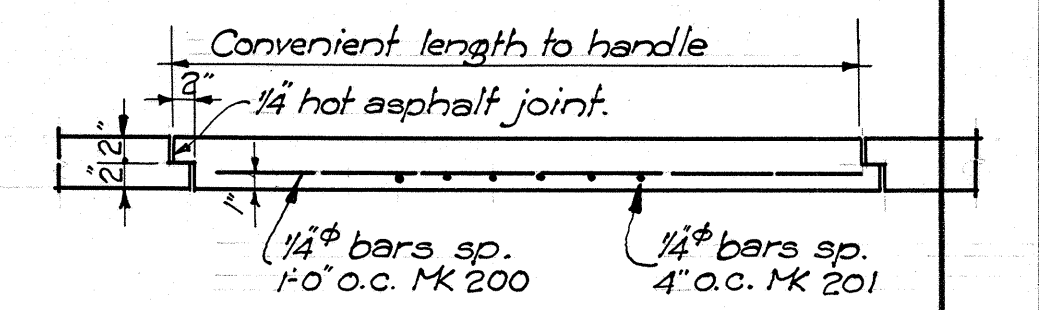
ELEVATION
3/4" Scale



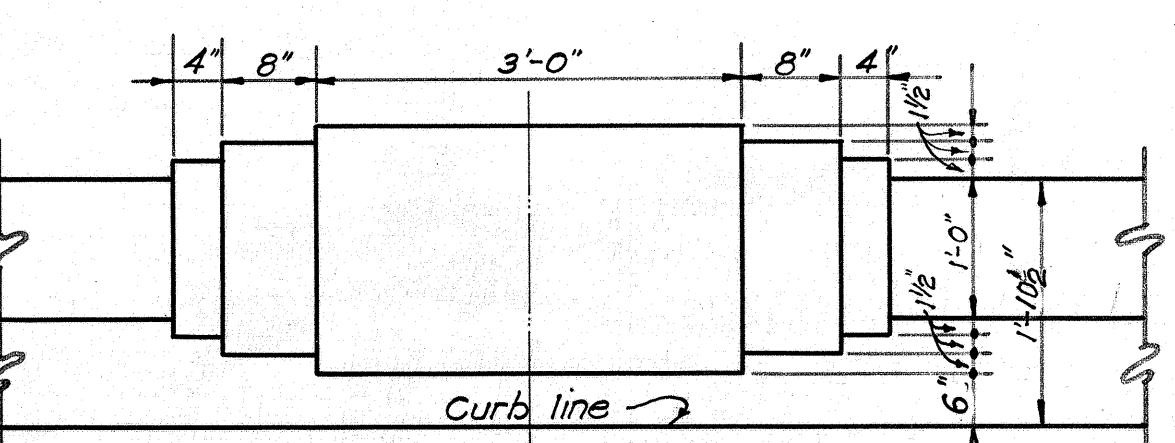
SECTION



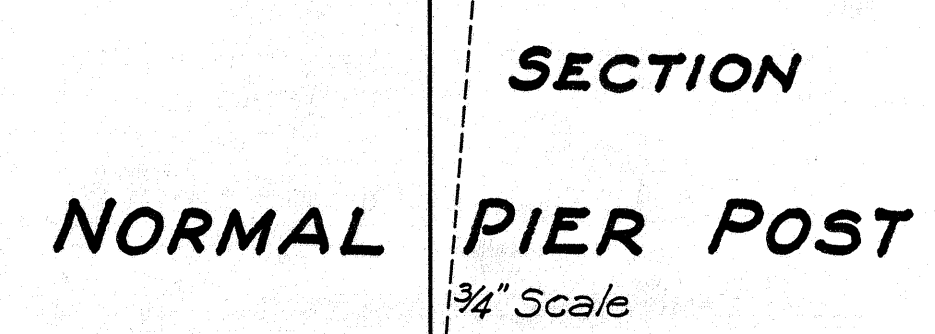
BRIDGE CROWN ORDINATES
3/8" Scale



JOINT DETAIL FOR PRECAST CONCRETE SIDEWALK BLOCKS
3/4" Scale.

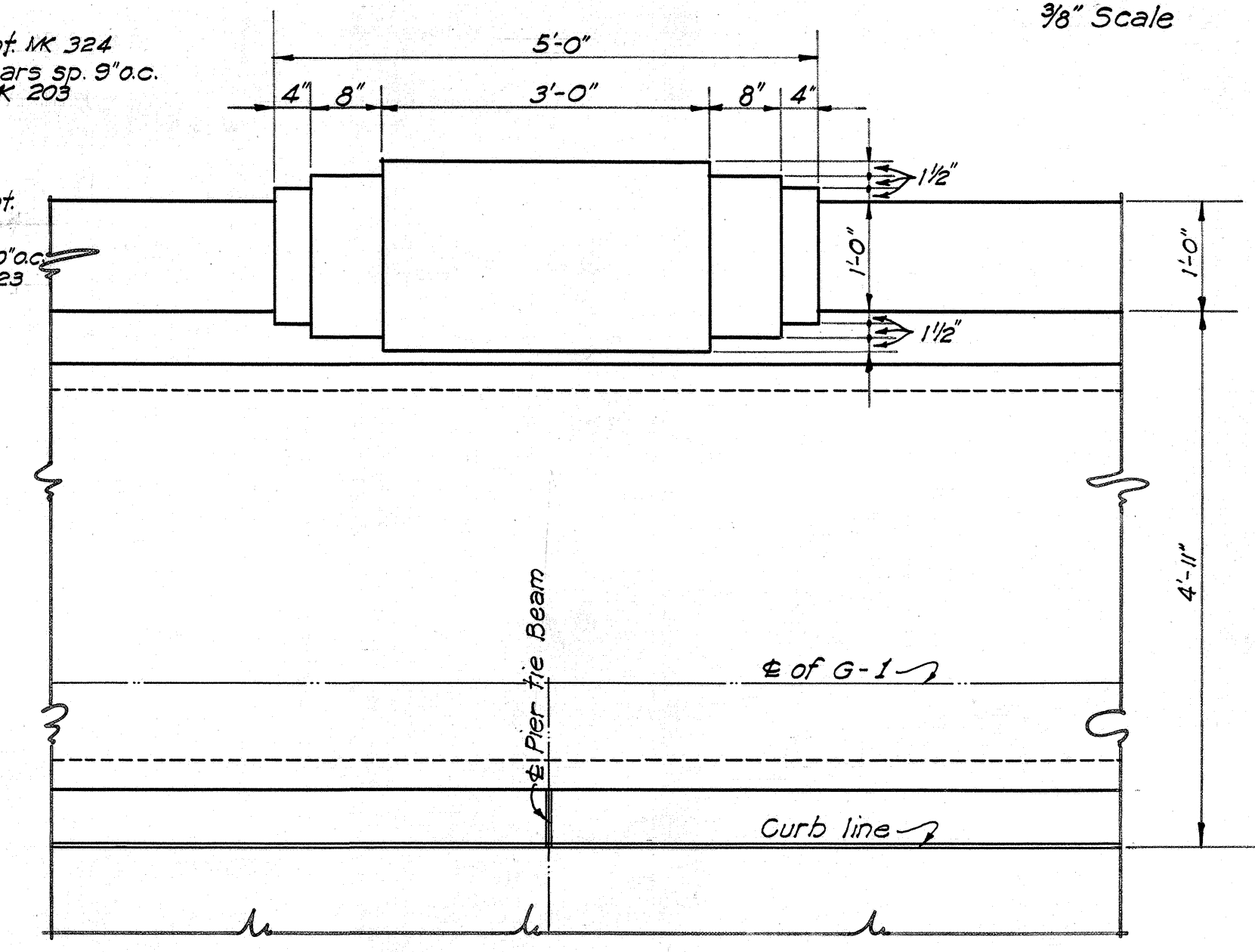


PLAN OF PIER POST
3/4" Scale



NORMAL PIER POST
3/4" Scale

SIDEWALK POST DETAILS
For Dimensions not shown see normal side
3/4" Scale



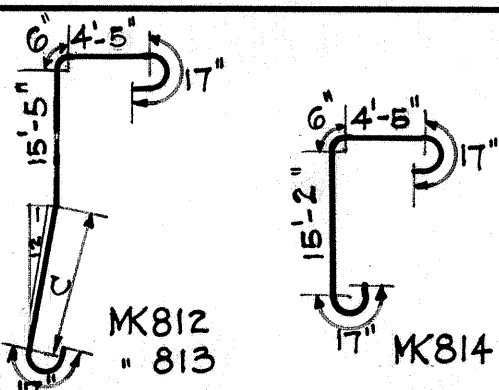
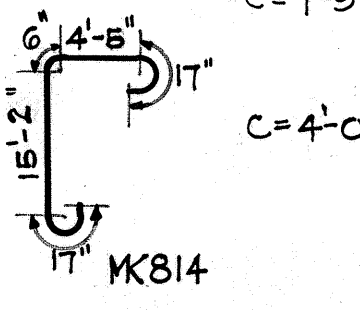
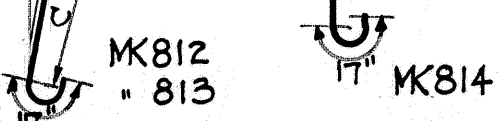
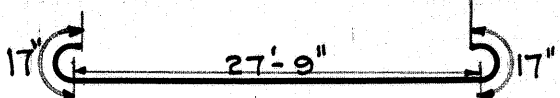
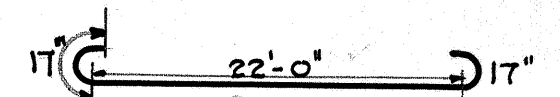
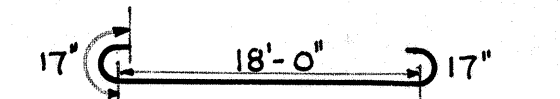
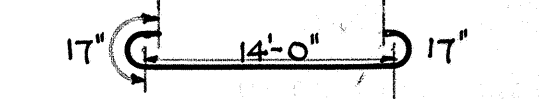
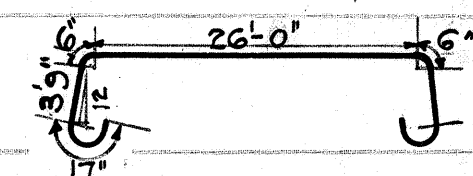
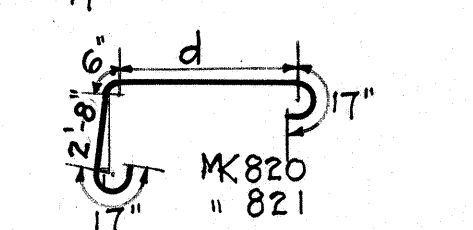
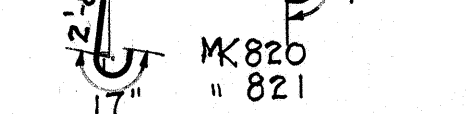
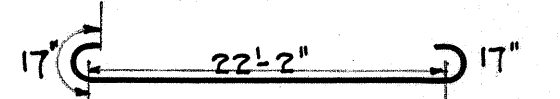
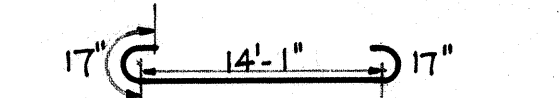
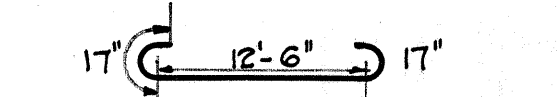
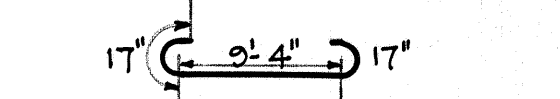
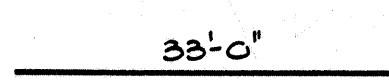
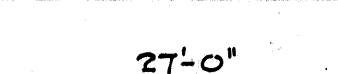
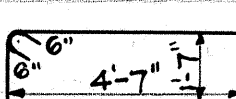
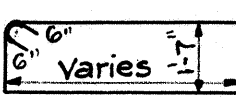
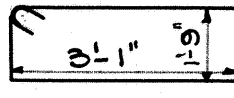
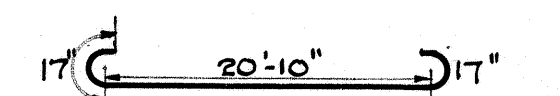
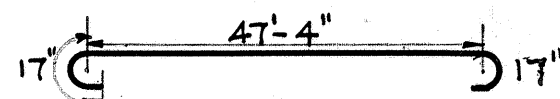
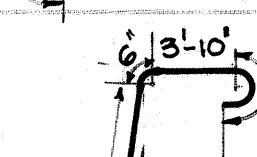
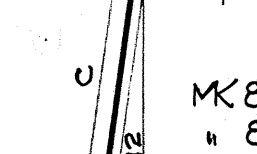
PLAN

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UPPER POAMOHU BRIDGE
No. 1 STA. 30+97.50 TO STA. 35+02.50
WAIHAWA WAIALUA ROAD N.R.S. 21-A.
NOV. 1935 SCALES AS NOTED.
SHEET NO. 22 OF 10 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NRS.21A	1935	24	43

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
700	15'-6"	FOOTINGS Pier #1	7" ϕ	15'-6"	62	6	372	5766	2.07	1,936
800	17" ϕ 9'-0"	" " Dowels	1" $\square$	11'-10"	12	6	72	852	3.44	2,931
600	13" ϕ 5'-2"	Abut. " "	3/4" ϕ	5'-2"	68	2	136	702.67	1.52	1,068
701	34'-6"	" " "	7/8" ϕ	34'-6"	20	2	40	1380	2.07	2,857
300	6'-0"	" " "	3/8" ϕ	6'-0"	27	2	54	324	0.38	123
400	9'-5" ϕ 12" ϕ 10'-3"	" " & Wall	1/2" ϕ	19'-2"	54	2	108	2079	0.68	1,414
400A	6'-0"	" " "	"	20'-0"	13	2	26	520	"	354
401	6'-0"	" " "	"	6'-0"	20	2	40	240	"	163
402	8'-0" ϕ 11'-2"	ABUTMENTS Abut. walls, Vert.	"	12'-6"	54	2	108	1367.28	"	930
402A	8'-0" ϕ 12'-1"	" " "	"	13'-5"	13	2	26	348.92	"	237
403	11'-6" ϕ 15'-8"	Ret. " "	"	15'-8"	9	4	36	564	"	384
404	12'-10" ϕ 13'-6"	" " "	"	13'-6"	12	4	48	648	"	441
301	23'-6"	Abut. " Horiz.	3/8" ϕ	23'-6"	20	2	40	1340	0.38	509
302	11'-8"	Ret. " Vert.	"	11'-8"	4	4	16	187.33	"	71
303	Varies	" " "	"	(Av.) 9'-7"	6	4	24	223	"	85
304	10'-6"	" " Horiz.	"	13'-6"	6	4	24	325	"	123
305	Varies	" " "	"	(Av.) 9'-3"	4	4	16	148	"	56
306	10'-6"	" " "	"	10'-6"	6	4	24	252	"	96
307	Varies	" " "	"	(Av.) 6'-3"	4	4	16	100	"	38
801	32'-5"	PIERS Pier #1 Vert.	1" $\square$	35'-3"	6	2	12	423	3.44	1,448
802	C = 19'-8"	" " "	"	25'-4"	2	2	4	101.33	"	349
803	C = 15'-8"	" " "	"	21'-4"	2	2	4	85.33	"	294
804	C = 11'-8"	" " "	"	17'-4"	2	2	4	69.33	"	238
805	C = 13'-6"	" " "	"	20'-9"	2	2	4	83	"	286
806	C = 9'-6"	" " "	"	16'-9"	2	2	4	67	"	230
807	C = 5'-6"	" " "	"	12'-9"	2	2	4	51	"	175
809	d = 31'-8"	" " "	"	34'-6"	12	2	24	828	"	2,848
810	d = 26'-4"	" " "	"	29'-2"	12	2	24	700	"	2,408
811	"	" " "	"	37'-1"	6	2	12	445	"	1,531

MK	DESCRIPTION	LOCATION	SIZE	LENGTH	№ OF BARS IN EA. UNIT	№ OF UNITS	TOTAL № OF BARS	TOTAL LENGTH	WT. PER FT.	TOTAL WEIGHT
812	 C = 7'-9"	Pier#1 Vert.	1"□	30'-11"	2	2	4	123.67	3.44	425
813	 C = 4'-0"	" " "	"	27'-2"	2	2	4	108.67	"	374
814	 MK812 = 813 MK814	" " "	"	22'-11"	2	2	4	91.67	"	315
815	 17" 27'-9" 17"	" " "	"	30'-7"	6	2	12	367	"	1,262
816	 17" 22'-0" 17"	" " "	"	24'-10"	2	2	4	99.33	"	342
817	 17" 18'-0" 17"	" " "	"	20'-10"	2	2	4	83.33	"	287
818	 17" 14'-0" 17"	" " "	"	16'-10"	2	2	4	67.33	"	232
819	 6'-4'-5" 15'-5" 5" MK820 = 821	" " Tiebeam	"	37'-4"	7	1	7	261.33	"	899
820	 6'-4'-5" d 2'-5" 17" MK820 = 821	" " "	"	16'-5"	3	2	6	98.5	"	339
821	 6'-4'-5" 2'-5" 17" MK820 = 821	" " "	"	13'-5"	4	2	8	107.33	"	369
822	 17" 22'-2" 17"	" " "	"	25'-0"	6	1	6	150	"	516
823	 17" 14'-1" 17"	" " "	"	16'-11"	7	2	14	236.83	"	815
824	 17" 12'-6" 17"	" " "	"	15'-4"	3	2	6	92	"	316
825	 17" 9'-4" 17"	" " "	"	12'-2"	4	2	8	97.33	"	335
405	 33'-0"	" " Vert. 1/2"φ	3/8"φ	33'-0"	4	2	8	264	0.68	180
406	 27'-0"	" " "	"	27'-0"	4	2	8	216	"	148
308	 6" 4'-7" 1"	Stirrups for Piers #1, 2 & 3.	3/8"φ	13'-4"	Pier#1 296 " #2 468 " #3 352	1116	14,880	0.38	5,654	
309	 6" Varies 1"	Max 4'-0" Min 3'-6" Av. 3'-9"	Pier#1 Stirrs.	(Av.) 11'-8"	60	2	120	1,400	"	532
310	 6" Varies 1"	max 4'-0" min 3'-0" Av. 3'-6"	" " "	(Av.) 11'-2"	26	2	52	580.67	"	221
311	 6" Varies 1"	max 3'-4" min 3'-0" Av. 3'-2"	" " "	(Av.) 10'-6"	24	2	48	504	"	192
312	 6" Varies 1"	max 4'-10 1/4" min 3'-5 1/4" Av. 4'-2"	" " "	(Av.) 12'-6"	38	2	76	950	"	361
408	 6" 3'-1" 1"	" " Tie-Bm. 1/2"φ	1/2"φ	10'-8"	13	2	26	277.33	0.68	189
409	 6" Varies 1"	max 4'-11" min 3'-3" Av. 4'-1"	" " "	(Av.) 12'-8"	22	2	44	557.33	"	379
830	 17" 20'-10" 17"	" " Vert. 1"□	1"□	23'-8"	8	2	16	378.67	3.44	1,303
801A	 17" 47'-4" 17"	Pier#2	"	50'-2"	6	2	12	602	"	2,071
802A	 6'-3'-10" 17" C = 30'-4"	" " "	"	37'-6"	2	2	4	150	"	516
803A	 6'-3'-10" 17" C = 26'-4"	" " "	"	33'-6"	2	2	4	134	"	461
804A	 6'-3'-10" 17" C = 22'-4"	" " "	"	29'-6"	2	2	4	118	"	405

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
805A	17" ϕ 49'-8"	Pier #2 Vert.	1" $\square$	49'-8"	6	2	12	596	3.44	2,394
806A	C = 22'-6"	" " "	"	31'-4"	2	2	4	125.33	"	428
807A	C = 18'-6"	" " "	"	27'-4"	2	2	4	109.33	"	376
808A	C = 14'-6"	" " "	"	23'-4"	2	2	4	93.33	"	321
809A	17" ϕ 47'-0"	" " "	"	49'-10"	12	2	24	1196	"	4,114
810A	17" ϕ 45'-2"	" " "	"	48'-0"	12	2	24	1152	"	3,963
811A	6'-5'-8" ϕ 17" ϕ 55'-7"	" " "	"	55'-7"	6	2	12	667	"	2,294
812A	C = 16'-0"	" " "	"	39'-5"	2	2	4	151.67	"	542
813A	C = 12'-0"	" " "	"	35'-5"	2	2	4	141.67	"	487
814A	C = 8'-0"	" " "	"	31'-5"	2	2	4	125.67	"	432
815A	17" ϕ 46'-0"	" " "	"	48'-10"	6	2	12	586	"	2,016
816A	17" ϕ 30'-4"	" " "	"	33'-2"	2	2	4	132.67	"	456
817A	17" ϕ 26'-4"	" " "	"	29'-2"	2	2	4	116.67	"	401
818A	17" ϕ 22'-4"	" " "	"	25'-2"	2	2	4	100.67	"	346
830A	17" ϕ 39'-0"	" " "	"	41'-10"	8	2	16	669.33	"	2,303
1039	28'-10" ϕ 21" ϕ 41'-0"	" " Tiebm. 1/4" ϕ	1/4" ϕ	41'-0"	7	1	7	287	5.37	1,541
900	11'-9 3/4" ϕ 18'-2"	" " "	1/8" ϕ	18'-2"	4	2	8	145.33	4.35	632
1040	8'-9" ϕ 15'-6"	" " "	1/4" ϕ	15'-6"	3	2	6	93	5.37	499
1041	21" ϕ 24'-0"	" " "	"	27'-6"	6	1	6	165	"	886
1042	21" ϕ 16'-0"	" " "	"	19'-6"	7	2	14	273	"	1,466
901	19" ϕ 14'-0"	" " "	1/8" ϕ	17'-2"	4	2	8	137.33	4.35	597
1043	21" ϕ 11'-0"	" " "	1/4" ϕ	14'-6"	3	2	6	87	5.37	467
405A	47'-6"	" " Vert. 1/2" ϕ	1/2" ϕ	47'-6"	4	2	8	380	0.68	258
406A	45'-9"	" " "	"	45'-9"	4	2	8	366	"	249

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on 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 occur in the steel schedule. Contractor shall check steel schedule before placing order.

All stirrup dimensions are to inside of stirrups; all other dimensions are figured on ϕ of bar.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

UPPER POAMOHO BRIDGE

No. 1 - STA. 30+97.50 TO STA. 35+02.50

WAIHAWA WAIALUA ROAD N.R.S. 21A

DEC. 1935

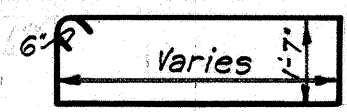
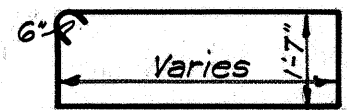
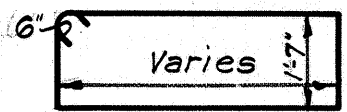
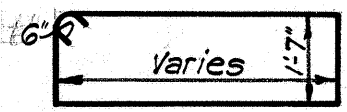
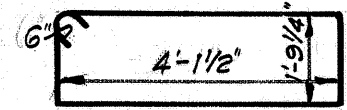
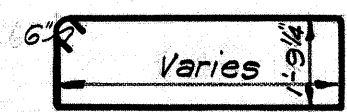
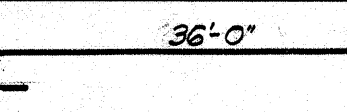
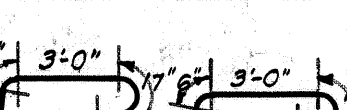
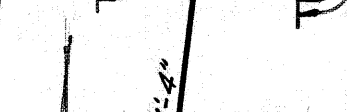
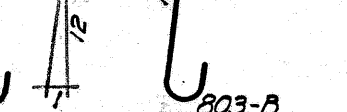
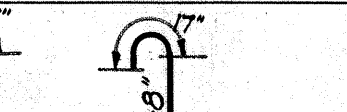
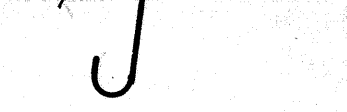
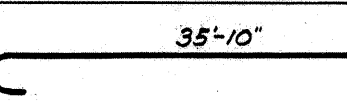
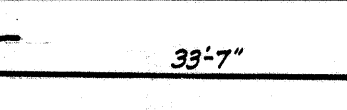
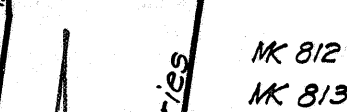
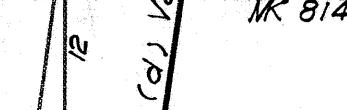
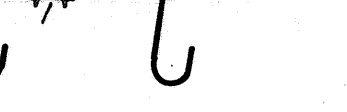
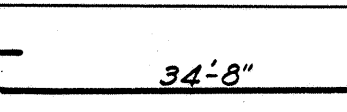
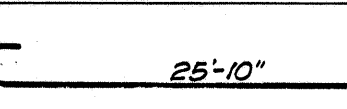
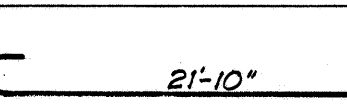
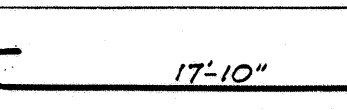
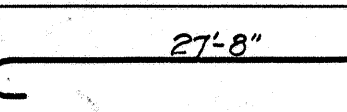
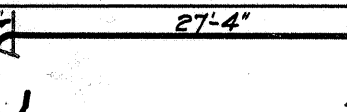
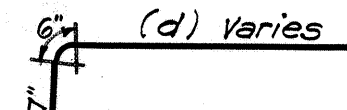
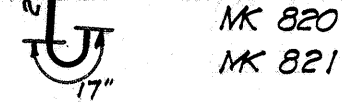
SHEET No. 8 OF 10 SHEETS

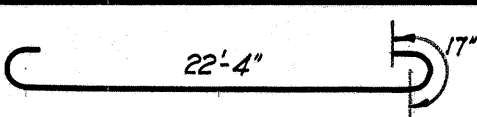
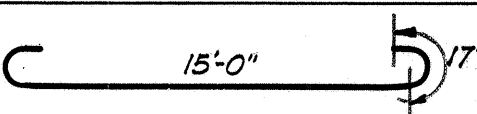
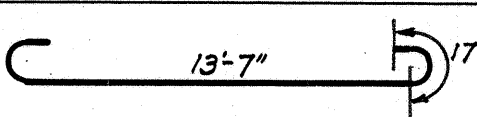
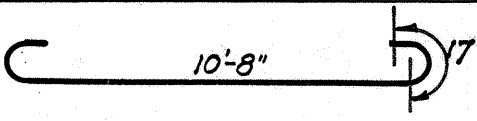
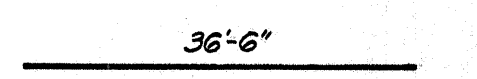
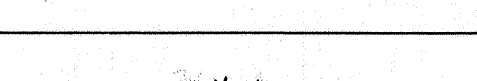
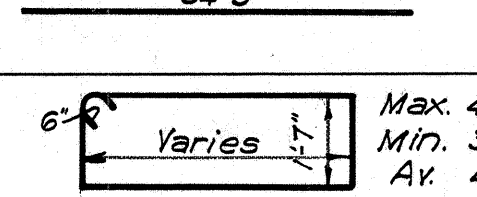
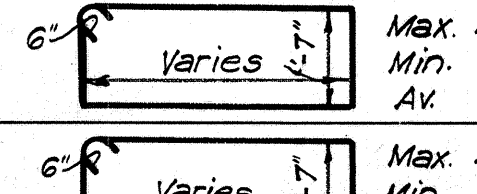
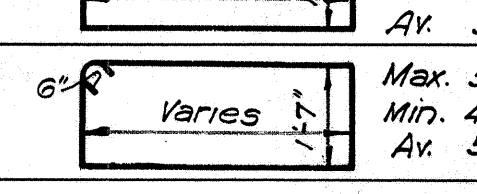
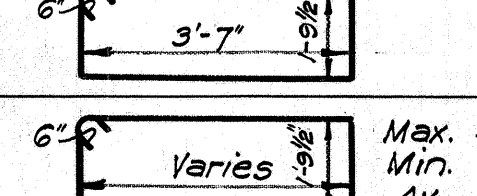
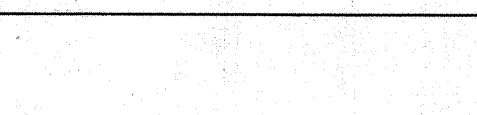
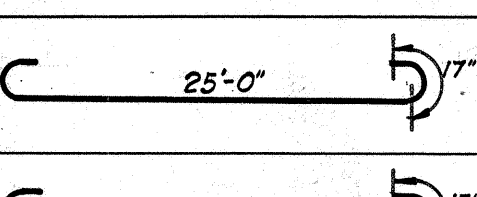
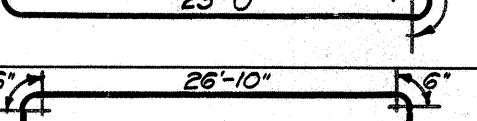
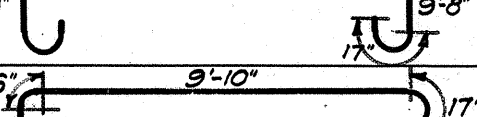
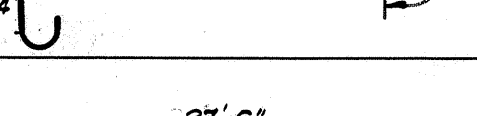
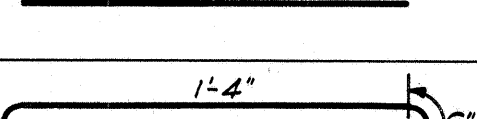
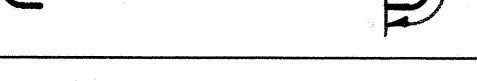
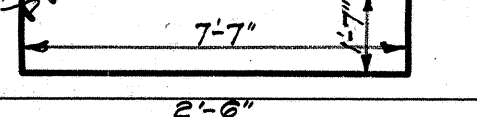
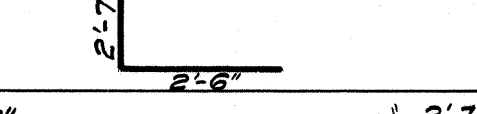
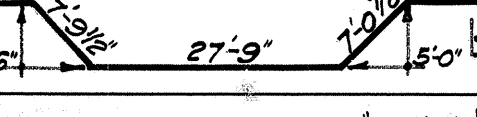
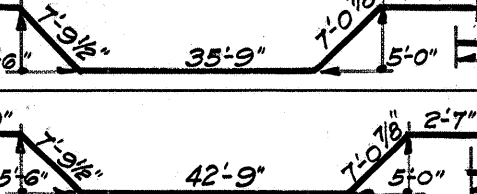
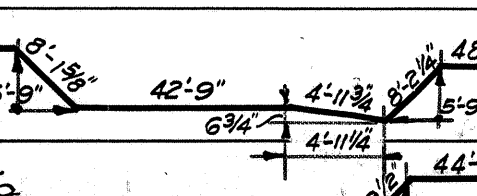
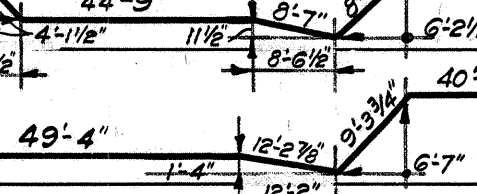
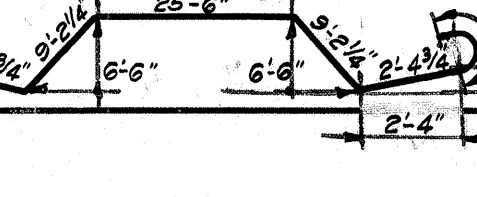
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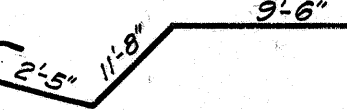
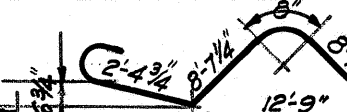
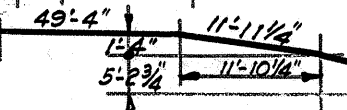
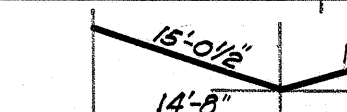
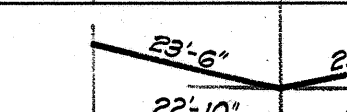
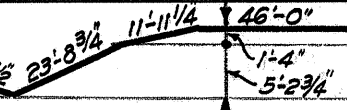
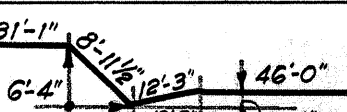
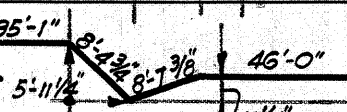
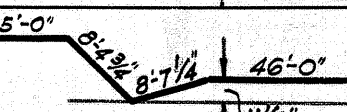
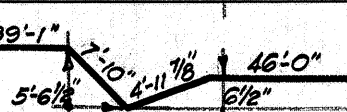
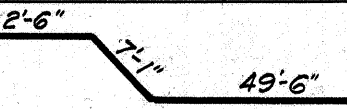
SURVEY PLOTTED BY	DATE
DRAWN BY	NOV. 1935
NOTED BY	DEC. "
QUANTITIES BY	H.M.C. CEN.
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	N.R.S. 21-A	1935	25	43

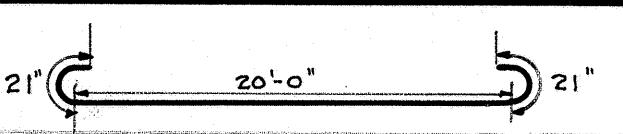
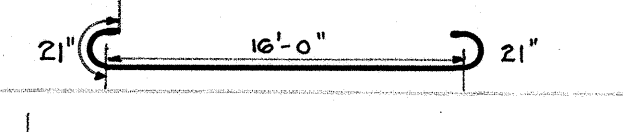
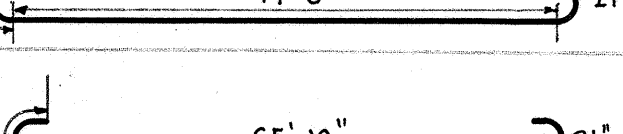
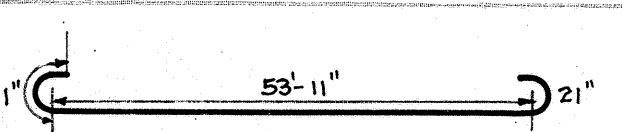
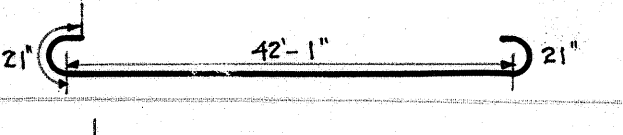
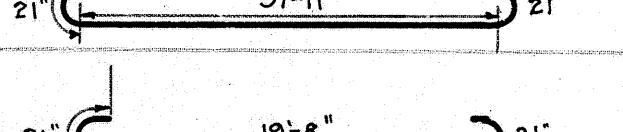
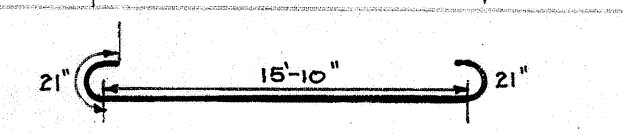
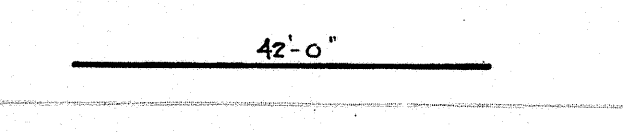
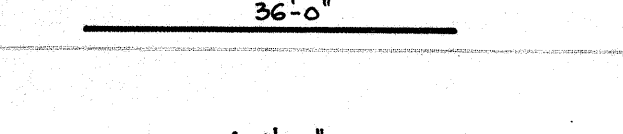
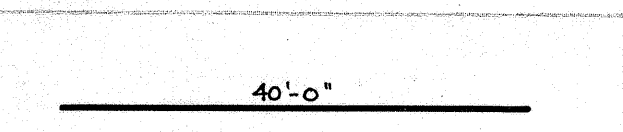
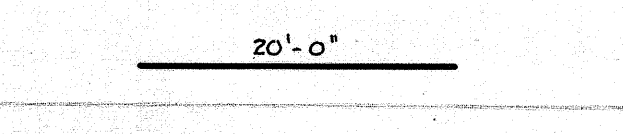
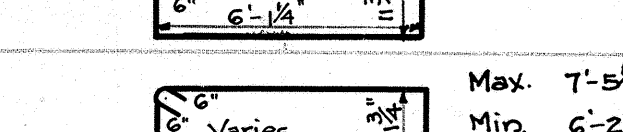
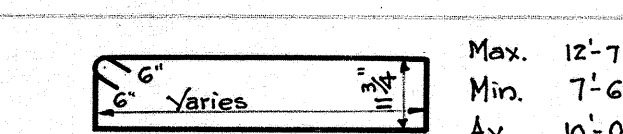
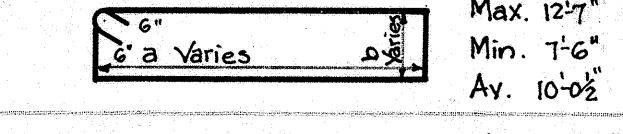
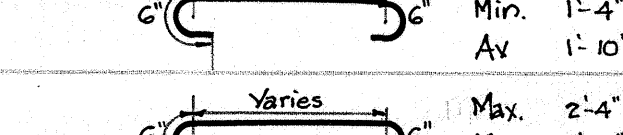
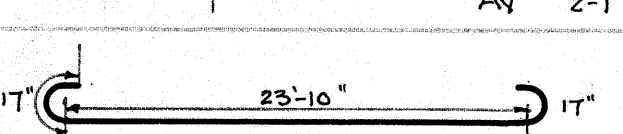
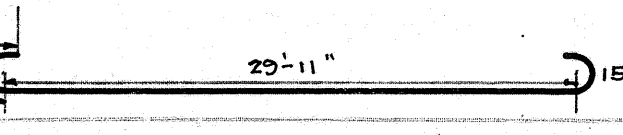
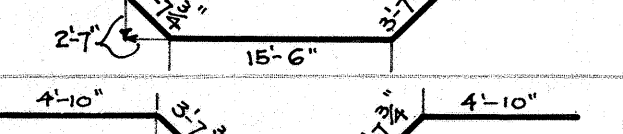
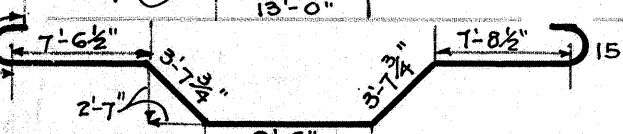
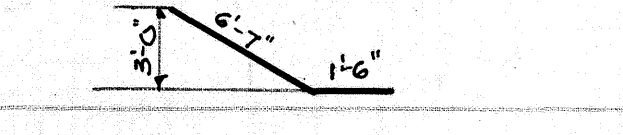
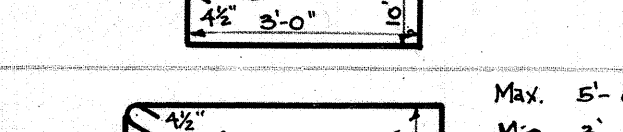
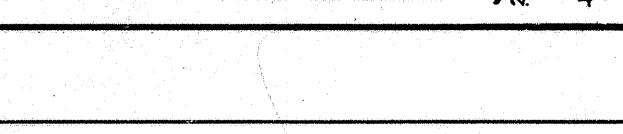
MK	DESCRIPTION	LOCATION	SIZE	LENGTH	NO OF BARS IN EA UNIT	NO OF UNITS	TOTAL NO OF BARS	TOTAL LENGTH	WT. PER FT.	TOTAL WEIGHT
309A	 Max. 5'-6" Min. 4'-0" Av. 4'-9"	PIERS PIER #2 Stirrups	3/8"	Av. 13'-8"	36	2	192	2624.0	0.38	997
310A	 Max. 5'-5" Min. 4'-0" Av. 4'-8 1/2"	"	"	Av. 13'-7"	28	2	56	760.67	"	289
311A	 Max. 4'-8" Min. 4'-1" Av. 4'-4 1/2"	"	"	Av. 12'-11"	74	2	148	1911.67	"	726
312A	 Max. 6'-5 1/4" Min. 4'-10 1/4" Av. 5'-7 3/4"	"	"	Av. 15'-6"	38	2	76	1178.0	"	448
408A	 4'-1 1/2" x 1'-0"	Tie Beam	1/2"	12'-10"	12	2	24	308.0	0.68	209
409A	 Max. 6'-5" Min. 4'-3" Av. 5'-4"	"	"	Av. 15'-3"	22	2	44	671.0	"	456
801B	 36'-0" x 1'-0"	PIER #3 Vert.	1"	38'-10"	6	2	12	466.0	3.44	1603
802B	 Max. 4'-7" Min. 3'-8" Av. 4'-1 1/2"	"	"	27'-8"	2	2	4	110.67	"	381
803B	 Max. 4'-3" Min. 3'-7" Av. 3'-11"	"	"	23'-8"	2	2	4	94.67	"	326
804B	 Max. 5'-11 1/2" Min. 4'-3 1/4" Av. 5'-1 1/2"	"	"	19'-8"	2	2	4	78.67	"	271
805B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	38'-3"	6	2	12	459.0	"	1579
806B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	22'-2"	2	2	4	88.67	"	305
807B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	18'-2"	2	2	4	72.67	"	250
808B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	14'-2"	2	2	4	56.67	"	195
809B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	38'-8"	12	2	24	928.0	"	3192
810B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	36'-5"	12	2	24	874.0	"	3007
811B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	44'-4"	6	2	12	532.0	"	1830
812B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	35'-1"	2	2	4	140.33	"	483
813B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	31'-1"	2	2	4	124.33	"	428
814B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	27'-1"	2	2	4	108.33	"	373
815B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	37'-6"	6	2	12	450.0	"	1548
816B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	28'-8"	2	2	4	114.67	"	394
817B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	24'-8"	2	2	4	98.67	"	339
818B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	20'-8"	2	2	4	82.67	"	284
830B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	30'-6"	8	2	16	488.0	"	1679
819B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	X Ties	"	38'-8"	7	1	7	270.67	"	931
820B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	16'-9"	3	2	6	100.50	"	346
821B	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	13'-9"	4	2	8	110.0	"	378

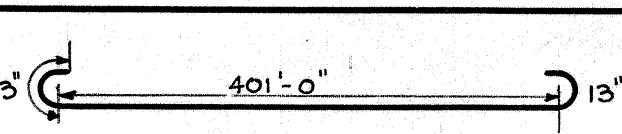
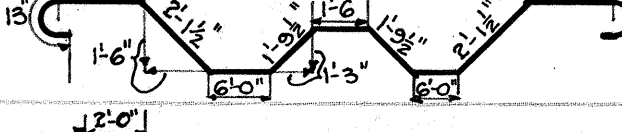
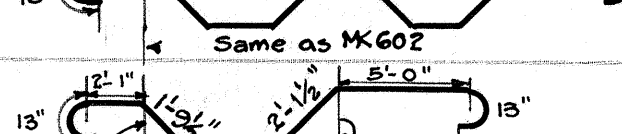
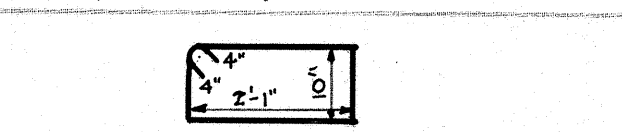
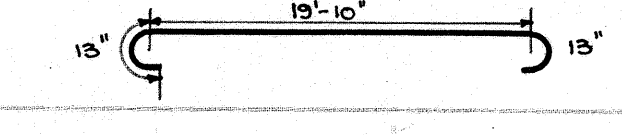
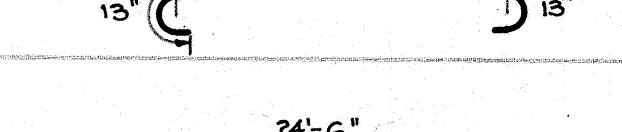
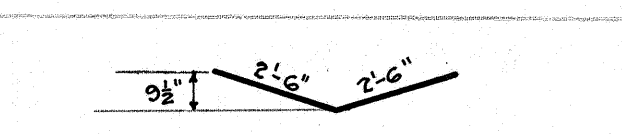
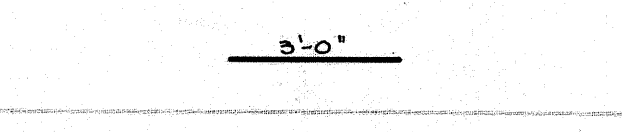
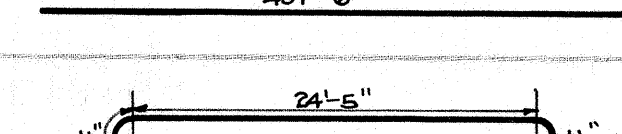
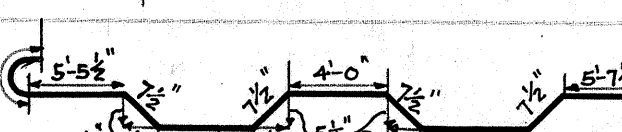
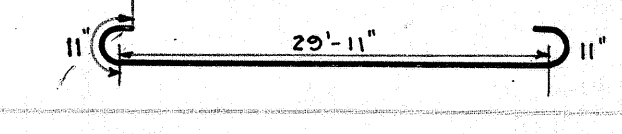
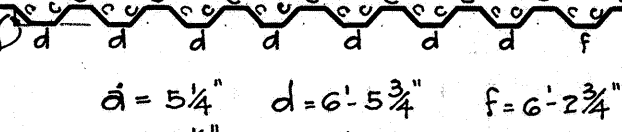
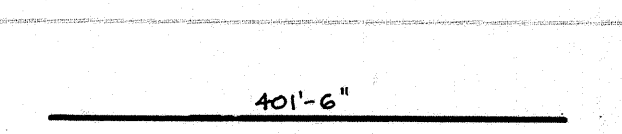
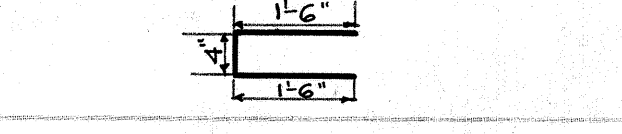
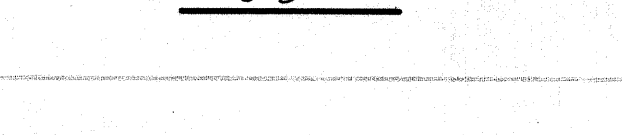
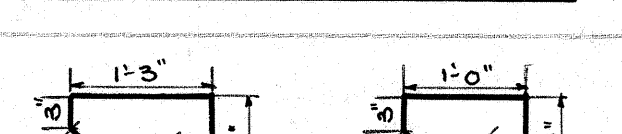
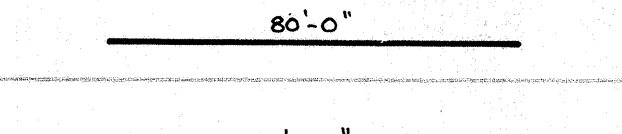
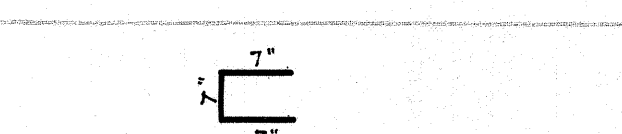
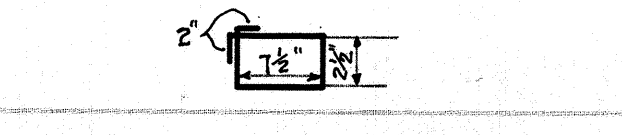
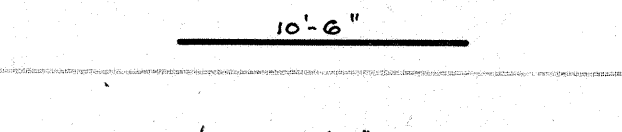
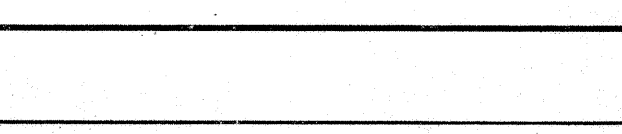
MK	DESCRIPTION	LOCATION	SIZE	LENGTH	NO OF BARS IN EA UNIT	NO OF UNITS	TOTAL NO OF BARS	TOTAL LENGTH	WT. PER FT.	TOTAL WEIGHT
822B		PIER #3 x ties	1"φ	25'-2"	6	1	6	151.0	3.44	519
823B		"	"	17'-10"	7	2	14	249.67	"	859
824B		"	"	16'-5"	3	2	6	98.50	"	339
825B		"	"	13'-6"	4	2	8	108.0	"	372
405B		Vert.	1/2"φ	36'-6"	4	2	8	292.0	0.68	199
406		"	"	34'-3"	4	2	8	274.0	"	186
309B		Stirr.	3/8"φ	Av. 12'-3"	68	2	136	1666.0	0.38	633
310B		"	"	Av. 12'-5"	26	2	52	645.67	"	245
311B		"	"	Av. 12'-0"	44	2	88	1056.0	"	401
312B		"	"	Av. 14'-5"	38	2	76	1095.67	"	416
408B		x ties	1/2"φ	11'-9"	12	2	24	282.0	0.68	192
409B		"	"	Av. 13'-3"	22	2	44	583.0	"	396
826		SUPERSTR. Pier Tie Bms	1"φ	27'-10"	6	3	18	501.0	3.44	1723
827		"	"	25'-10"	Pier 1 - 4 2 - 5 3 - 4	13	335.83	"	1155	
828		"	"	30'-0"	Pier 1 - 4 2 - 6 3 - 4	14	700.0	"	2408	
829		"	"	18'-6"	Pier 1 - 8 2 - 10 3 - 8	26	481.0	"	1655	
407		"	1/2"φ	27'-6"	4	3	12	330.0	0.68	224
313		"	3/8"φ	2'-4"	G-1 - 184 Tie Bm 48	232	541.33	0.38	208	
424		"	1/2"φ	19'-4"	20	3	60	1160.0	0.68	789
327		"	3/8"φ	7'-7"	22	3	66	500.50	0.38	190
1000		GIRDERS G-1	1 1/2"φ	51'-4"	4	2	8	410.67	5.37	2205
1001		"	"	62'-7"	4	2	8	500.67	"	2689
1002		"	"	66'-7"	4	2	8	532.67	"	2860
1003		"	"	116'-7"	4	2	8	932.67	"	5008
1004		"	"	118'-5"	4	2	8	947.33	"	5087
1005		"	"	114'-7"	4	2	8	916.67	"	4923
1006		"	"	52'-2"	6	2	12	626.0	"	3362

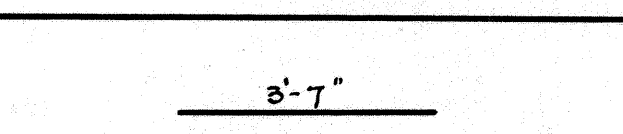
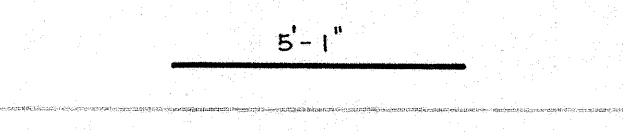
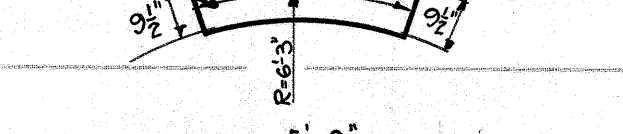
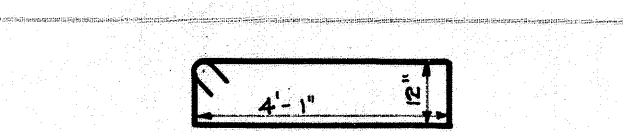
MK	DESCRIPTION	LOCATION	SIZE	LENGTH	NO OF BARS IN EA UNIT	NO OF UNITS	TOTAL NO OF BARS	TOTAL LENGTH	WT. PER FT.	TOTAL WEIGHT
1007	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	GIRDERS G-1	1/4"	46'-9"	6	2	12	561.0	5.37	3013
1008	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	41'-2"	6	2	12	494.0	"	2653
1009	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	35'-1"	6	2	12	421.0	"	2261
1010	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	26'-2"	6	2	12	314.0	"	1686
1011	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	88'-10"	12	2	24	2132.0	"	11449
1012	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	30'-1"	6	2	12	361.0	"	1939
1013	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	47'-0"	3	2	6	282.0	"	1514
1014	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	121'-5"	12	2	24	2914.0	"	15648
1015	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	157'-7"	4	2	8	1260.67	"	6770
1016	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	167'-0"	2	2	4	668.0	"	3587
1016A	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	157'-0"	2	2	4	628.0	"	3372
1017	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	166'-7"	4	2	8	1332.67	"	7156
1018	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	72'-3"	4	2	8	518.0	"	3104
1019	 Max. 4'-10" Min. 3'-10" Av. 4'-4"	"	"	64'-3"	4	2	8	514.0	"	2

STEEL SCHEDULE

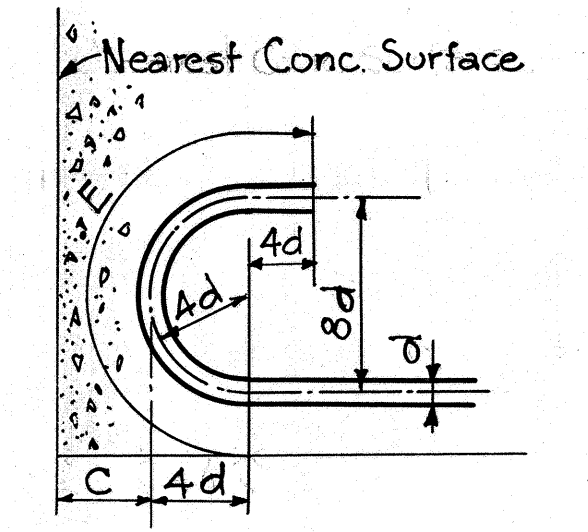
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	NRS 21A	1935	26	43

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
1030		SUPERST. G-1	1/4"	23'-6"	1	2	2	47	5.37	252
1031		"	"	19'-6"	1	2	2	39	"	209
1032		"	"	81'-2"	4	2	8	649.33	"	3,487
1033		"	"	69'-4"	4	2	8	554.67	"	2,979
1034		"	"	57'-5"	4	2	8	459.33	"	2,467
1035		"	"	45'-7"	2	2	4	182.33	"	979
1036		"	"	41'-5"	2	2	4	165.67	"	890
1037		"	"	23'-2"	2	2	4	92.67	"	498
1038		"	"	19'-4"	2	2	4	77.33	"	415
413		"	1/2"	42'-0"	8	2	16	672	0.68	457
414		"	"	36'-0"	8	2	16	576	"	392
415		"	"	40'-1"	4	2	8	3,212	"	2,184
416		"	"	40'-0"	12	2	24	960	"	653
417		"	"	20'-0"	12	2	24	480	"	326
418		"	Stirrs	15'-2"	500	2	1000	15,166.67	"	10,313
419		"	"	(Av.) 16'-7"	216	2	432	7,164	"	4,872
420		"	"	(Av.) 23'-1"	198	2	396	9,041	"	6,166
420A		"	"	(Av.) 24'-1"	198	2	396	9,437	"	6,435
313A		"	3/8"	(Av.) 2'-10"	7	12	84	238	0.38	90
313B		"	"	(Av.) 3'-1"	3	12	36	111	"	42
831		Cross Beams	1"	26'-8"	4	32	128	3,413.33	3.44	11,742
702		"	3/8"	32'-5"	2	32	64	2,074.67	2.07	4,295
832		"	1"	30'-0"	2	32	64	1,920	2.70	5,184
833		"	"	30'-0"	2	32	64	1,920	"	5,184
703		"	7/8"	34'-6"	2	32	64	2,208	2.07	4,571
704		"	"	8'-1"	4	32	128	1,034.67	"	2,142
411		"	1/2"	8'-6"	16	32	512	4,352	0.68	2,959
412		"	1/2"	(Av.) 10'-6"	12	32	384	4,032	"	2,742

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
601		G-2	3/4"	403'-2"	4	1	4	1,612.67	1.52	2,451
602		"	"	33'-6"	62	1	62	2,077	"	3,157
602A		"	"	30'-6"	4	1	4	122	"	185
603		"	"	19'-3"	4	1	4	77	"	117
315		"	Stirrs	6'-6"	13	34	442	2,873	0.38	1,092
604		"	3/4"	22'-0"	64	1	64	1,408	1.52	2,140
604A		"	"	19'-7"	4	1	4	78.33	"	119
316		Fillet	3/8"	24'-6"	4	34	136	3,332	0.38	1,266
317		"	3/8"	5'-0"	500	1	500	2,500	"	950
318		"	"	3'-0"	360	1	360	1,080	"	410
319		Sidewalk Curb	"	401'-6"	10	1	10	4,015	"	1,526
500		Floor Slab	5/8"	26'-3"	8	34	272	7,140	1.06	7,568
501		"	"	32'-9"	9	34	306	10,021.5	"	10,623
502		"	"	31'-9"	10	34	340	10,735	"	11,443
503		Floor Slab	5/8"	44'-3"	14	1	14	5,793.5	1.06	6,147
504		"	"	401'-6"	42	1	42	16,863	"	17,875
321		Sidewalk Curb	3/8"	3'-3"	400	1	400	1,300.33	0.38	494
200		"	1/4"	3'-3"	1,203	1	1,203	3,909.75	0.17	665
201		"	"	400'-6"	4	1	4	1,602	"	272
322		Curb	3/8"	4'-9"	383	1	383	1,819	0.38	691
323		"	"	4'-6"	383	1	383	1,723.5	"	655
320		Curb & Railing	"	80'-0"	6	4	24	1,920	"	730
324		"	"	111'-0"	6	4	24	2,664	"	1,006
203		Railing	1/4"	1'-9"	510	2	1020	1,785	0.17	303
204		"	"	2'-0"	1070	1	1070	2,040	"	347
325		"	3/8"	10'-6"	4	60	240	2,520	0.38	958
326		"	"	9'-0"	4	16	64	576	"	219

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
421		Railing	1/2"	3'-7"	2	516	1032	3,698	0.68	2,515
422		End Posts	"	5'-1"	8	4	32	162.67	"	111
327		"	3/8"	8'-6"	3	4	12	102	0.38	39
423		Intermed. Posts	1/2"	5'-9"	10	6	60	345	0.68	235
328		"	3/8"	11'-2"	4	6	24	266	0.38	101

HOOK DETAIL



Mark	Size	C	C+4d	E	8d
300	3/8"	3"	4 1/2"	6"	3"
400	1/2"	"	5"	8"	4"
500	5/8"	"	5 1/2"	11"	5"
600	3/4"	"	6"	13"	6"
700	7/8"	"	6 1/2"	15"	7"
800	1"	"	7"	17"	8"
800	1"	"	7"	17"	8"
900	1 1/8"	"	7 1/2"	19"	9"
1000	1 1/4"	"	8"	21"	10"

CONTRACTORS NOTE

This steel schedule is subordinate to details shown on 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 occur in the steel schedule. Contractor shall check steel schedule before placing order. All stirrup dimensions are to inside of stirrups; all other dimensions are figured on $\frac{1}{2}$ of bar.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UPPER POAMOHO BRIDGE
No 1- STA. 30+97.50 TO STA. 35+02.50
WAHIAWA WAIALUA ROAD N.R.S. 21A
DEC. 1935

SURVEY PLOTTED BY: DATE: Dec. 1935
DRAWN BY: H.Y.M.
CHECKED BY: H.Y.M.
NOTE BOOK: H.Y.M.
QUANTITIES BY: H.Y.M.
CHECKED BY: H.Y.M.