

Revised 4-27-39

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw.	26-B(1)	1939	8	14

TIMBER BILL OF MATERIAL

MEMBER	No	SIZE & LENGTH	KIND OF LUMBER	MILL WKR	FT. B.M.
DOUGLAS FIR COAST R.G.N.					
Solid Bridge	1	4" x 18" x 104'-0"	No. 1 Dimension	S/E	60
	2	4" x 18" x 18'-0"	"	"	540
	2	4" x 18" x 26'-0"	"	"	312
Cross	1	2" x 4" x 6'-0"	"	Rough	4
	24	2" x 4" x 16'-0"	"	"	256
Splice Blks	22	6" x 18" x 3'-0"	Select Stiff Plank	S/E	594
Stringers	1	6" x 18" x 6'-0"	"	"	54
	2	6" x 18" x 8'-0"	"	"	144
	1	6" x 18" x 10'-0"	"	"	90
	2	6" x 18" x 12'-0"	"	"	216
	1	6" x 18" x 14'-0"	"	"	126
	2	6" x 18" x 16'-0"	"	"	288
	2	6" x 18" x 18'-0"	"	"	324
	64	6" x 18" x 20'-0"	"	"	15120
	1	6" x 18" x 22'-0"	"	"	198
	1	6" x 18" x 24'-0"	"	"	216
Sidewalk Joist Bk	11	12" x 18" x 3'-0"	Post & Timbers	Sea detail	594
Wheel Guard	12	10" x 12" x 20'-0"	S/S/E	"	2400
	1	10" x 12" x 12'-0"	"	"	120
Wheel Grd. face ps	12	4" x 16" x 20'-0"	"	"	1280
	1	4" x 16" x 12'-0"	"	"	64
Guard Railing	11	3" x 8" x 20'-0"	Structural Joist Plank	S/S	440
	1	3" x 8" x 28'-0"	"	"	56
	11	4" x 8" x 20'-0"	"	"	587
	1	4" x 8" x 28'-0"	"	"	75
Sidewalk End ps	2	2" x 16" x 4'-0"	"	Rough	21
	2	2" x 16" x 6'-0"	"	"	32
Corner Blk.	1	2" x 4" x 14'-0"	"	S/S	9
End Timber	2	6" x 18" x 20'-0"	Post & Timbers	S/E	360
End Time Blocks	1	8" x 6" x 9'-0"	Post & Timbers	S/S	27
Wall Plate	2	6" x 8" x 24'-0"	Post & Timbers	"	192
	1	6" x 8" x 34'-0"	"	"	136
Deck Starter	1	6" x 6" x 26'-0"	"	S/S/E	178
	1	6" x 6" x 38'-0"	"	"	114
Sidewalk Joist Bk	1	8" x 18" x 6'-0"	Post & Timbers	Sea detail	72
	1	8" x 18" x 10'-0"	"	"	120
Floor Decking	667	2" x 6" x 26'-0"	Structural Joist Plank	S/S/E	22542
Sidewalk End ps	1	8" x 12" x 18'-0"	Post & Timbers	"	144
Sidewalk Plank	14	1" x 8" x 6'-0"	No. 1 Dimension	S/S	56
	334	1" x 8" x 4'-0"	"	"	691
	14	2" x 8" x 6'-0"	"	"	112
	334	2" x 8" x 4'-0"	"	"	1782
Railing Posts	15	8" x 8" x 8'-0"	Select Post & Timbers	S/S	640
	24	8" x 8" x 6'-0"	"	"	768
Posts	1	12" x 12" x 4'-0"	Post & Timbers	Rough	48
	1	12" x 12" x 10'-0"	"	"	96
	2	12" x 12" x 14'-0"	"	"	336
	8	12" x 12" x 16'-0"	"	"	1536
	5	12" x 12" x 20'-0"	"	"	1080
	1	12" x 12" x 28'-0"	"	"	240
Sidewalk Block	2	8" x 12" x 10'-0"	"	"	160
Sills	2	12" x 12" x 18'-0"	"	"	432
Caps	2	12" x 12" x 8'-0"	Structural Joist Plank	S/S	192
	1	12" x 12" x 20'-0"	"	"	240
	5	12" x 12" x 34'-0"	"	"	2040
Sills	3	12" x 12" x 20'-0"	Post & Timbers	Rough	720
Braces	2	3" x 10" x 18'-0"	Joist Plank	"	80
	2	3" x 10" x 18'-0"	"	"	90
	4	3" x 10" x 20'-0"	"	"	200
	2	3" x 10" x 24'-0"	"	"	120
	1	3" x 10" x 28'-0"	"	"	70
	4	3" x 10" x 30'-0"	"	"	300
	1	3" x 10" x 32'-0"	"	"	80
	2	3" x 10" x 36'-0"	"	"	160
Struts	4	4" x 12" x 16'-0"	"	"	256
Post Scabs	12	6" x 12" x 6'-0"	Structural Joist Plank	"	432
Solid Br @ I	4	4" x 9" x 4'-0"	No. 1 Dimension	"	48
	8	4" x 12" x 4'-0"	"	"	128
Blocks @ I	9	6" x 12" x 3'-0"	Select Stiff Plank	S/S	162
	3	10" x 12" x 3'-0"	"	Sea detail	90
Blocks @ Struts	8	4" x 12" x 1'-0"	"	Rough	32
Bearing Blocks	7	4" x 8" x 3'-0"	Structural Post & Timbers	S/S	56
TOTAL					67,818

LAYOUT PLAN OF BRIDGE

Scale: 1" = 10'-0"

D = Deflection.
C = Camber.

Bent No. 1		Bent No. 2		Bent No. 3		Bent No. 4	
19'-0"	19'-0"	19'-0"	19'-0"	19'-0"	19'-0"	19'-0"	19'-0"
D = 0.889"	D = 0.887"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"
C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"
D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"	D = 0.889"
C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"	C = 0.889"
D = 0.517"	D = 1.054"	D = 0.554"	D = 0.554"	D = 0.554"	D = 0.554"	D = 0.554"	D = 0.554"
C = 0.556"	C = 1.000"	C = 0.556"	C = 0.556"	C = 0.556"	C = 0.556"	C = 0.556"	C = 0.556"
D = 0.557"	D = 1.000"	D = 0.557"	D = 0.557"	D = 0.557"	D = 0.557"	D = 0.557"	D = 0.557"
C = 0.556"	C = 1.000"	C = 0.556"	C = 0.556"	C = 0.556"	C = 0.556"	C = 0.556"	C = 0.556"

PLAN SHOWING DEFLECTIONS AND CAMBERS.

Scale: 1" = 10'

ESTIM. QUANTITIES	
CLASS 'A' CONC.	140 CY.
CLASS 'B' CONC.	290 CY.
REINF. STEEL	1368 LBS.
STRUCT. STEEL	42,116*
TREATED TIMBER	61,818 B.M.
STRUCT. EXCAV.	132 CY.
UNCL. ASS. EXCAV.	98 CY.
C.R. MASONRY	68.3 CY.

DOWNSTREAM ELEVATION OF BRIDGE

Scale: 1" = 10'-0"

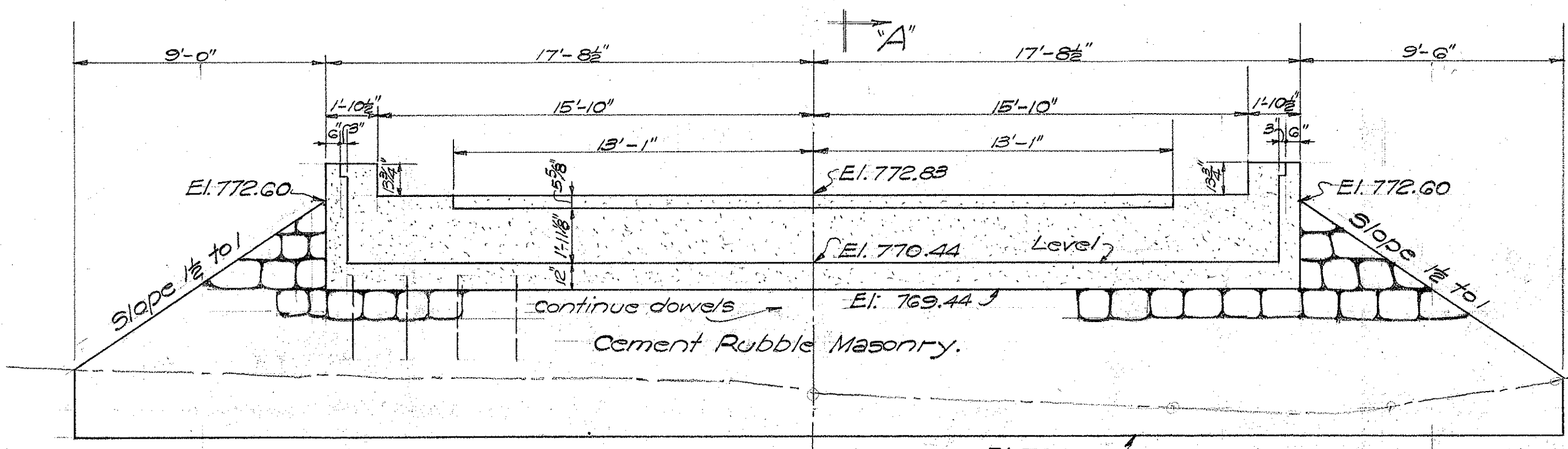
Revision:
Plan showing Deflections
& Cambers added.

ORIGINAL	DATE	REVISION
PLAN	4-27-39	1
BOOK	4-27-39	2
BY	W. E. HANSEN	
CHECKED BY	W. E. HANSEN	

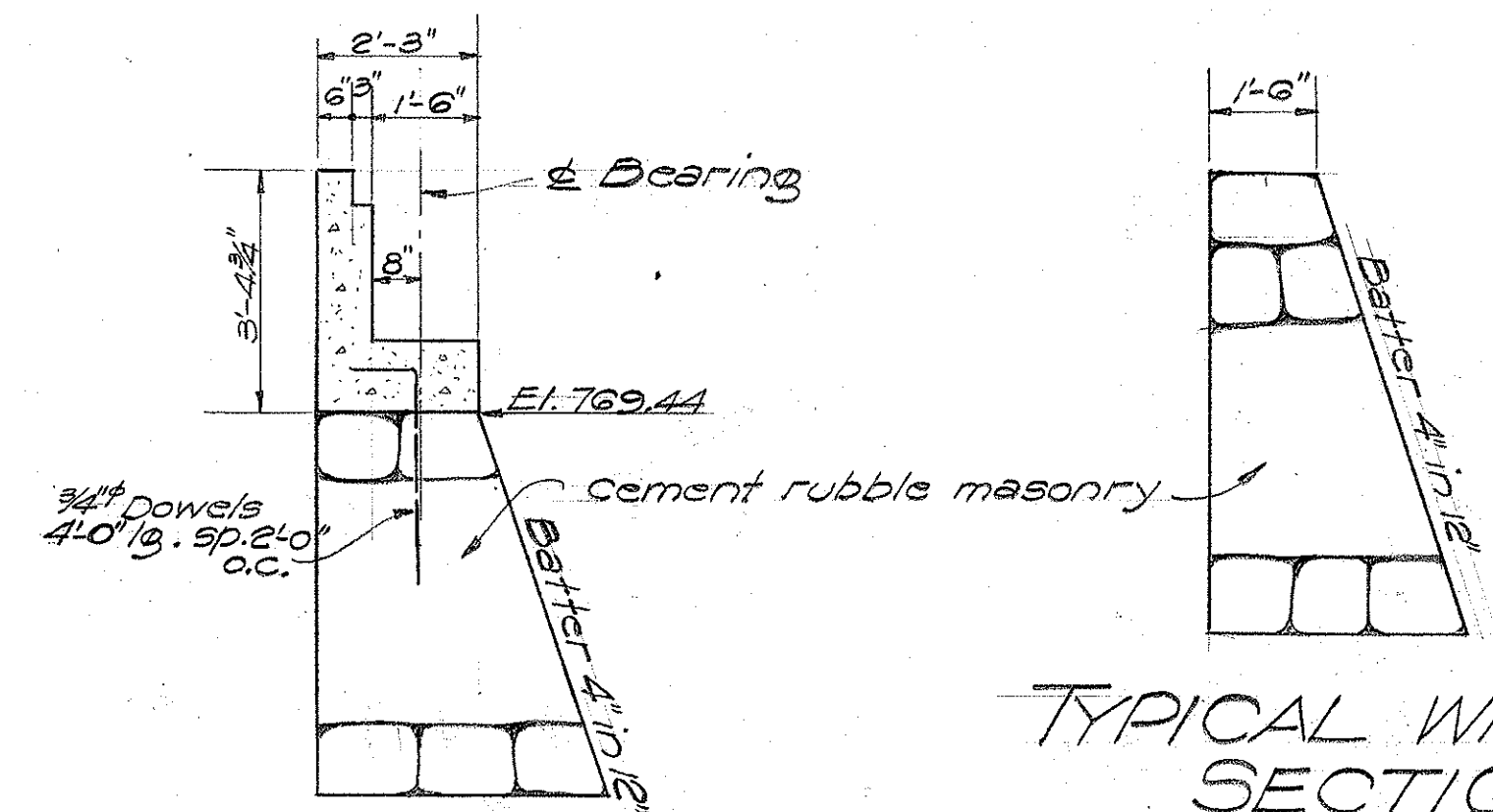
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WEST PAAULI O BRIDGE
STA. 800+09.75 TO STA. 801+30.64
Hawaii Belt Rd.
F.A.P. 26-B(1) Feb. 1938
SHEET NO. 1 OF 4 SHEETS.

4484.8

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	26 B(1)	1939	2	14

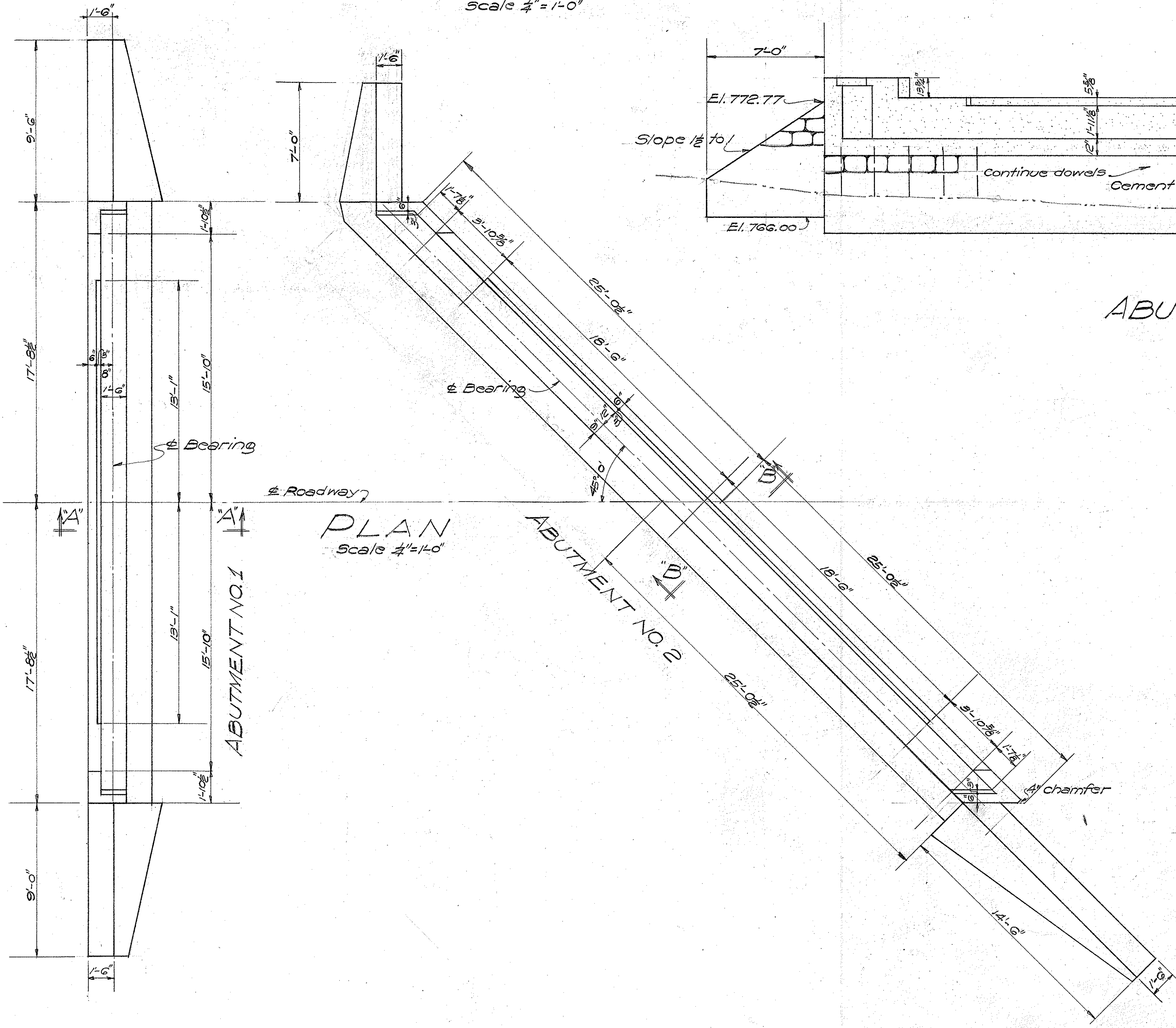


Looking against stationing.
ABUTMENT NO. 1
 Scale 1/4" = 1'-0"

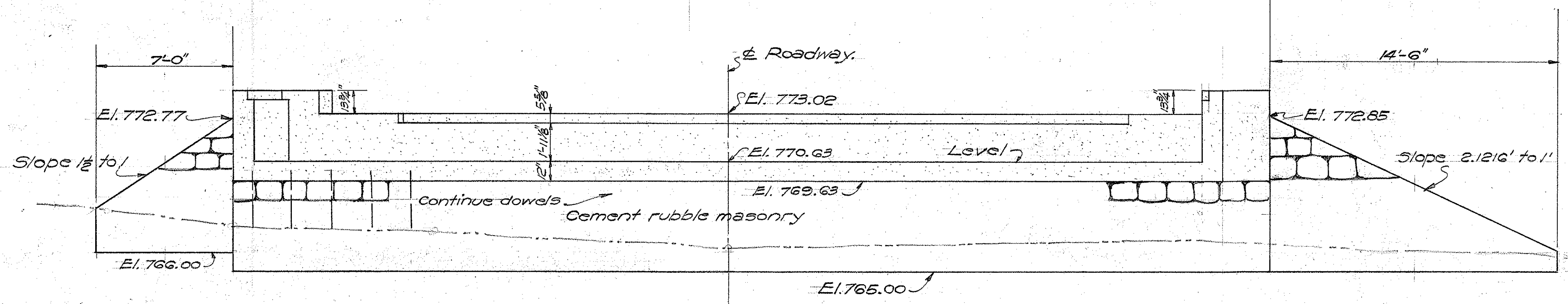


SECTION A-A
 Scale 3/8" = 1'-0"

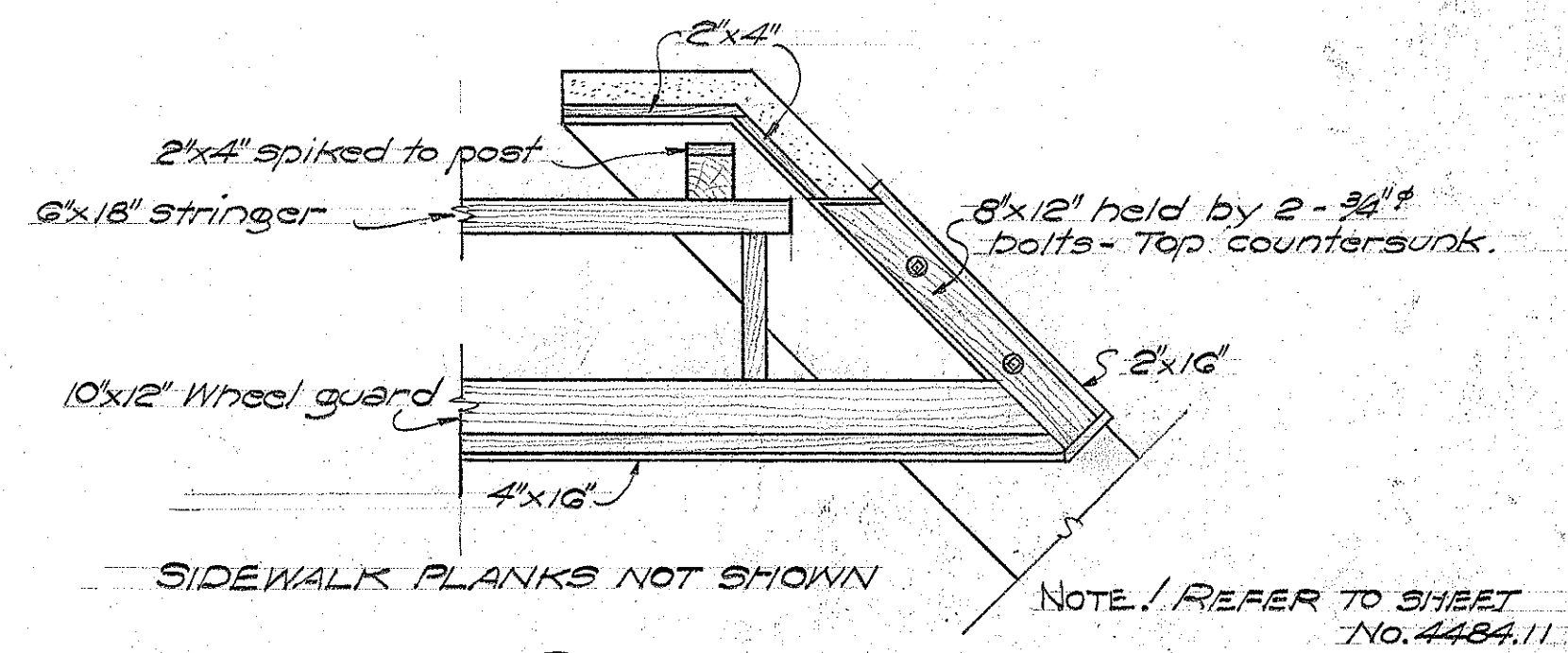
TYPICAL WINGWALL SECTION
 Scale 3/8" = 1'-0"



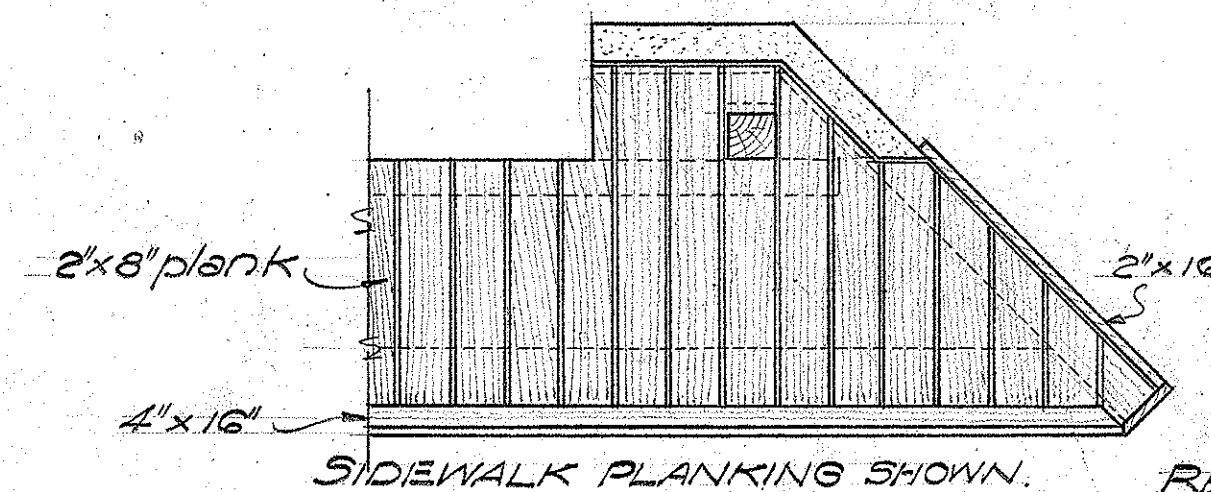
ABUTMENT NO. 2
 Scale 1/4" = 1'-0"



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



DETAIL "Y"
 Scale 3/8" = 1'-0"

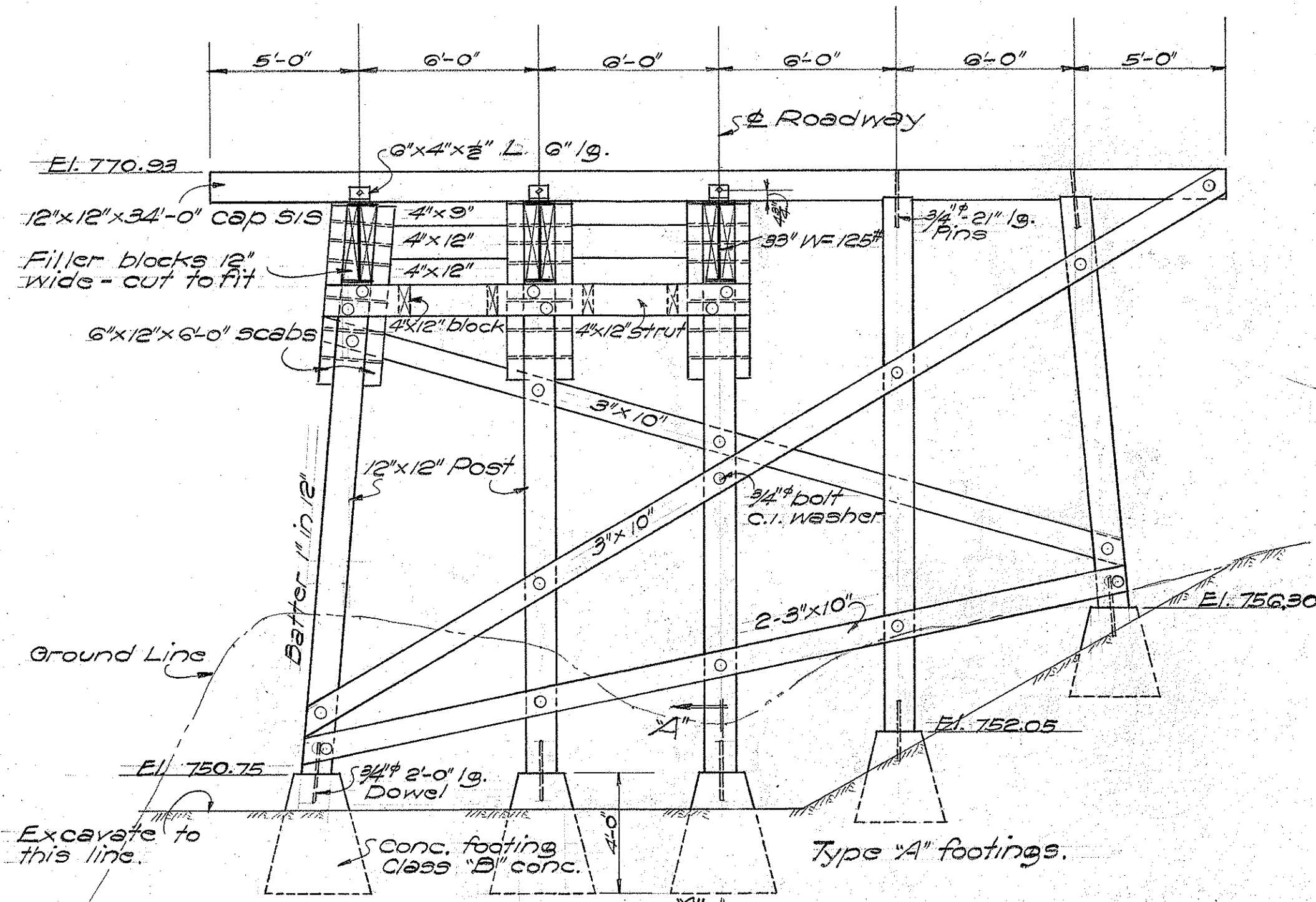


DETAIL "Y"
 Scale 3/8" = 1'-0"

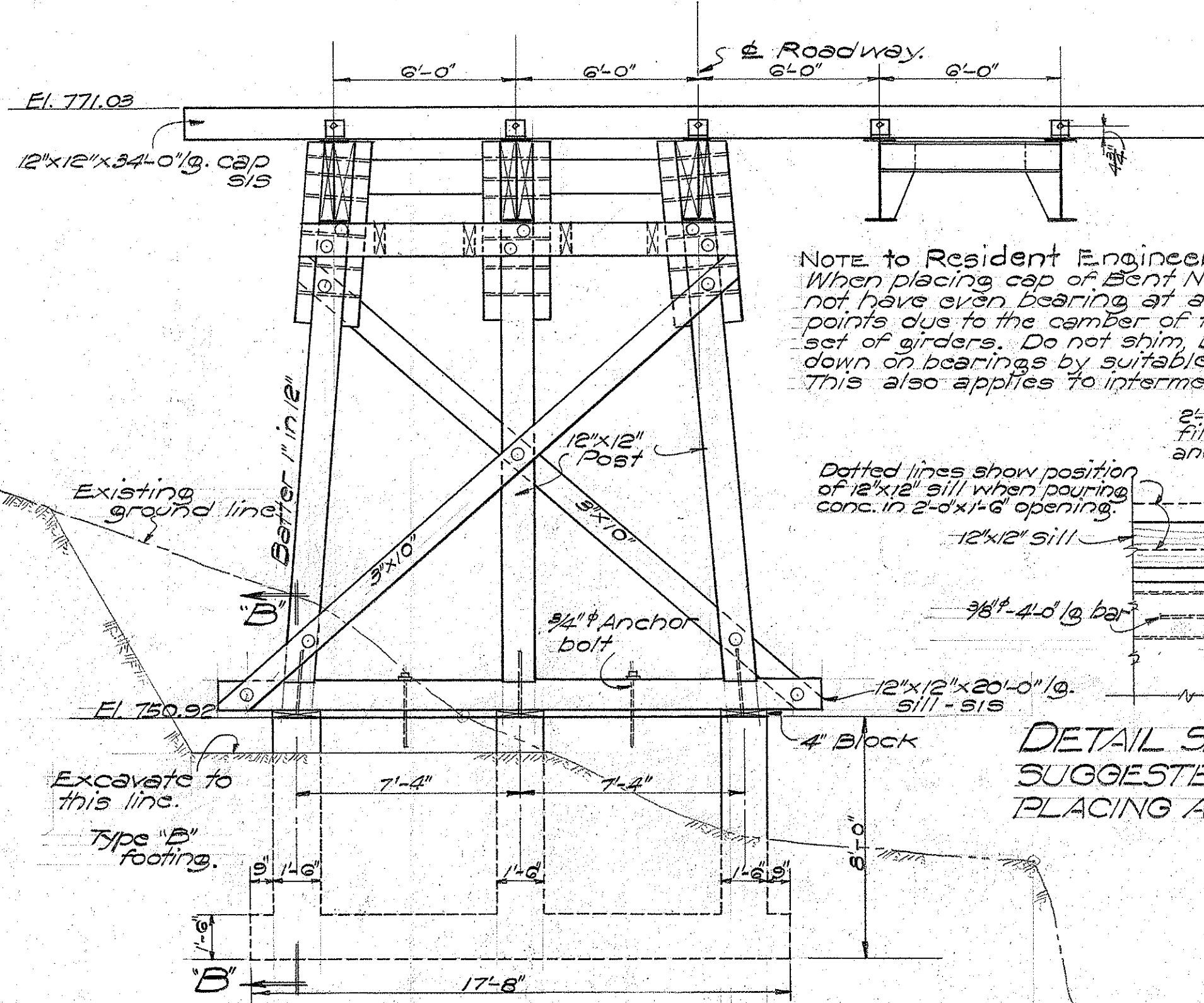
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WEST PAAULI BRIDGE
STA. 800+09.25 to 801+30.25
HAWAII BELT RD. F.A.R. 26 B(1)
JUNE - 1939

REFER TO SHEET NO. 4484.11
SHEET NO 2 OF 4 SHEETS

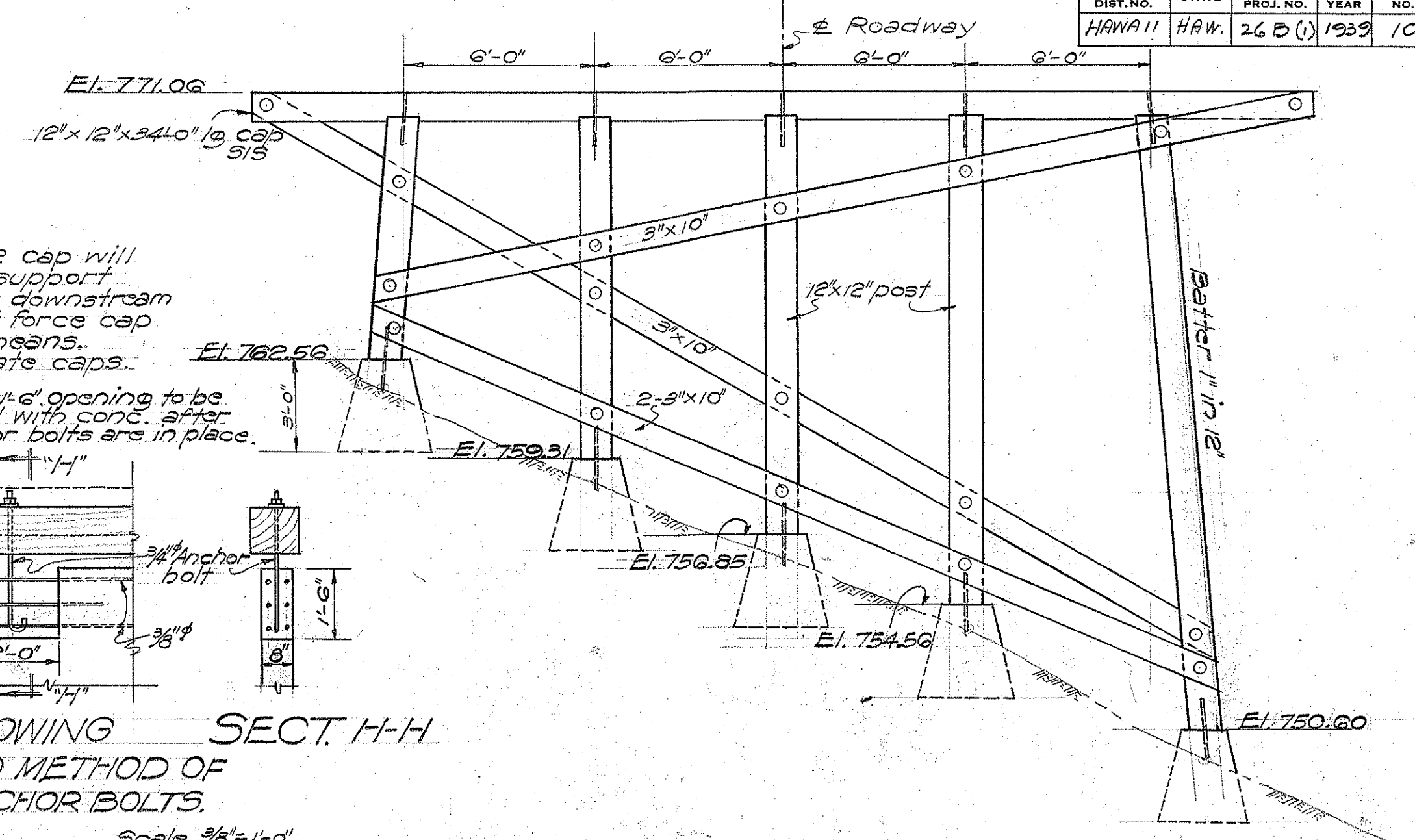
ORIGINAL PLAN	DATE
DESIGNED BY	5-25
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



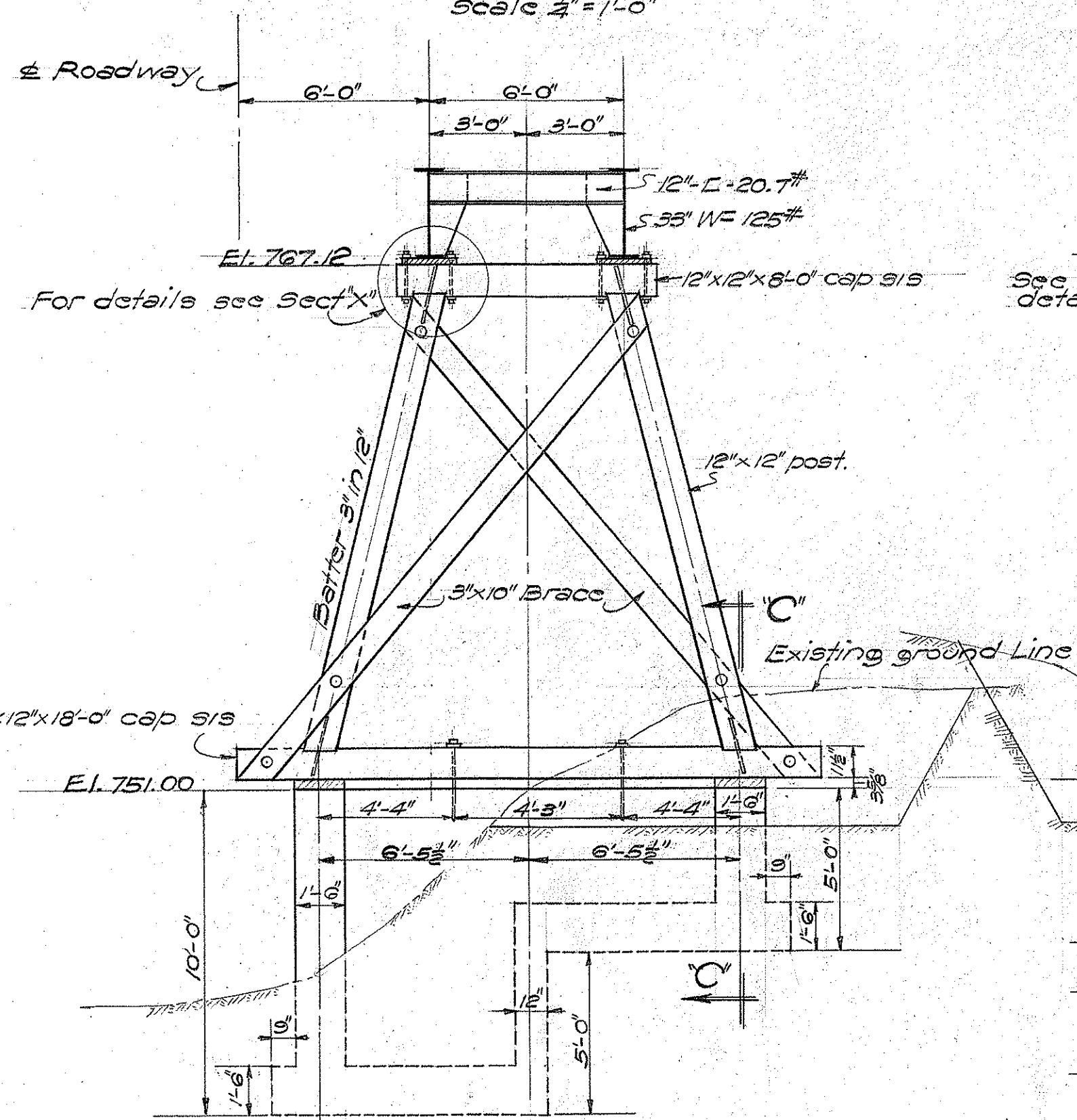
BENT NO. 1 STA. 800+30
Scale 1/4" = 1'-0"



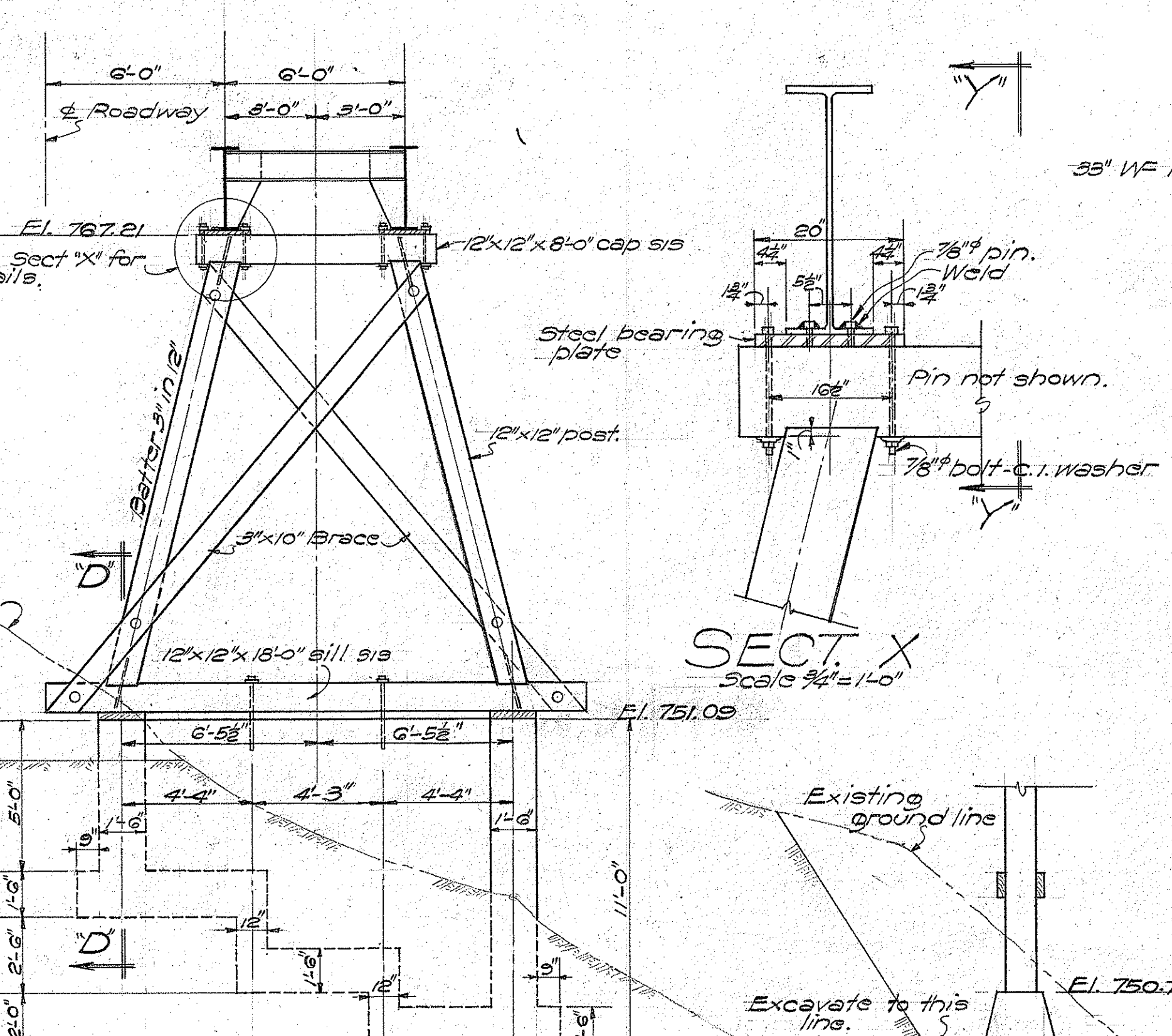
BENT NO. 2 STA. 800+87
Scale 1/4" = 1'-0"



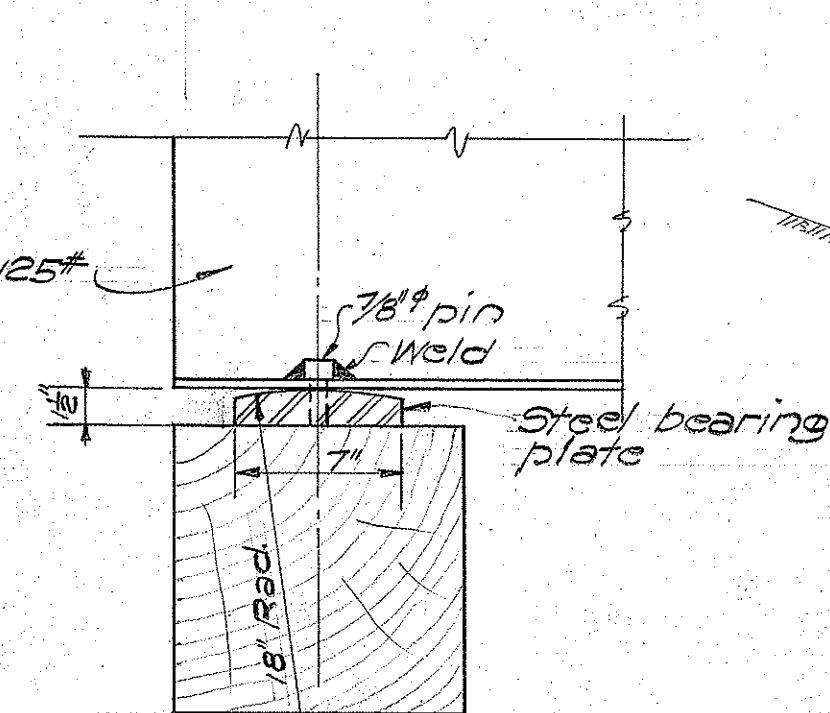
BENT NO. 3 STA. 801+06
Scale 1/4" = 1'-0"



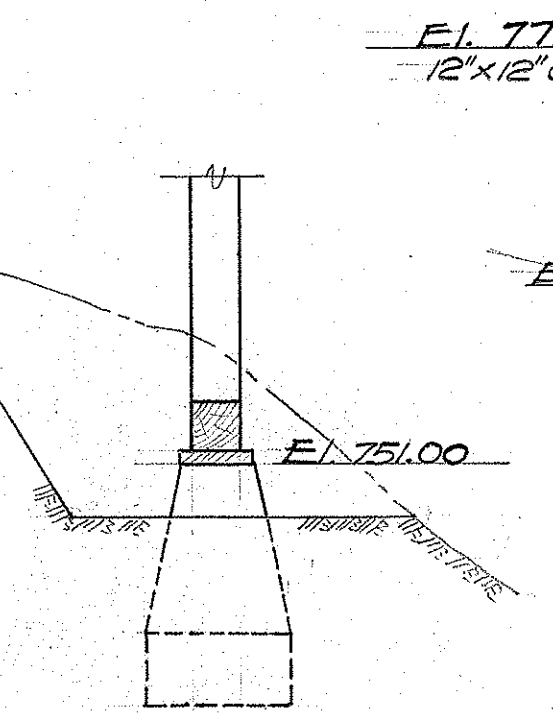
BENT NO. 1A STA. 800+40
Scale 1/4" = 1'-0"



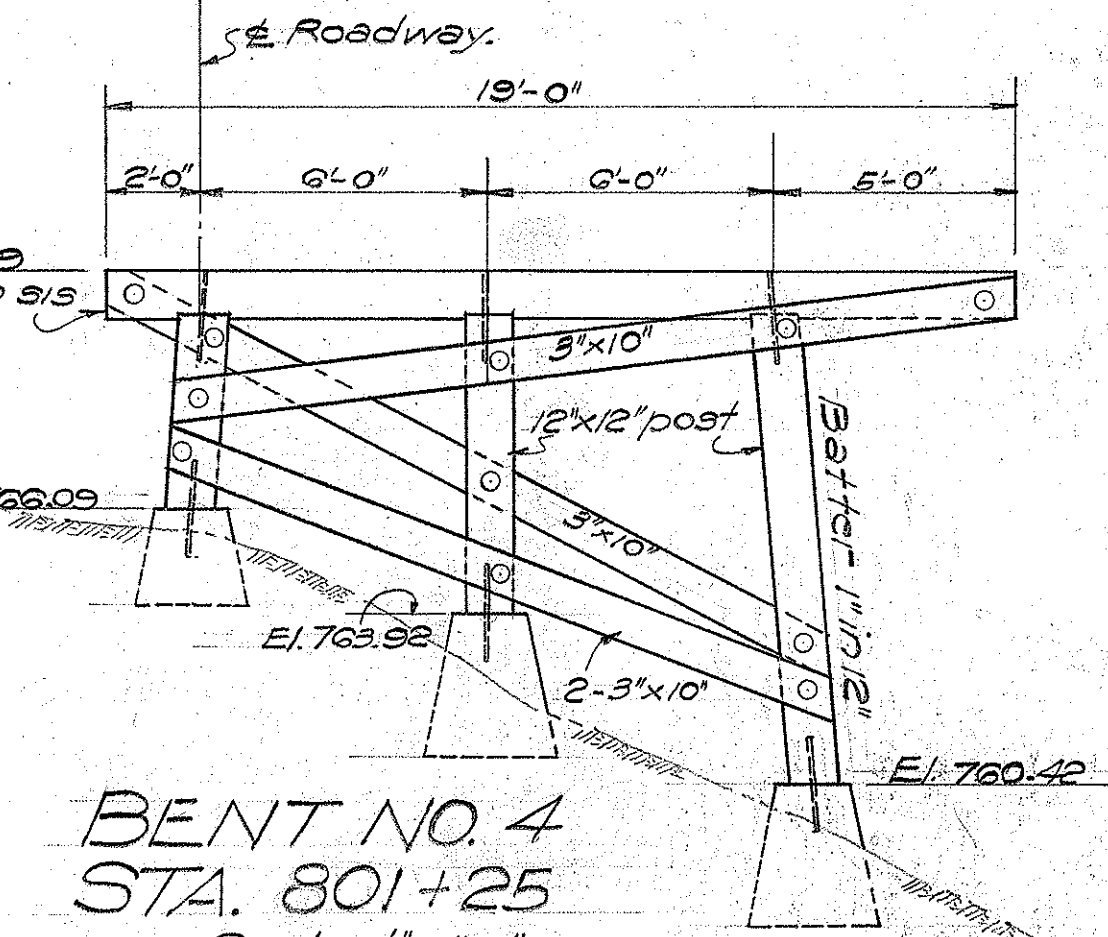
BENT NO. 2A STA. 800+97
Scale 1/4" = 1'-0"



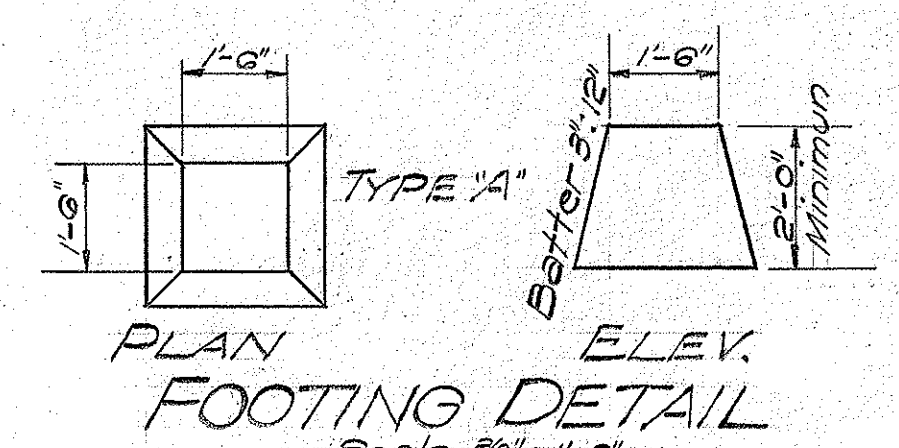
SECT. Y-Y
Scale 1/2" = 1'-0"



SECT. C-C
Scale 1/2" = 1'-0"

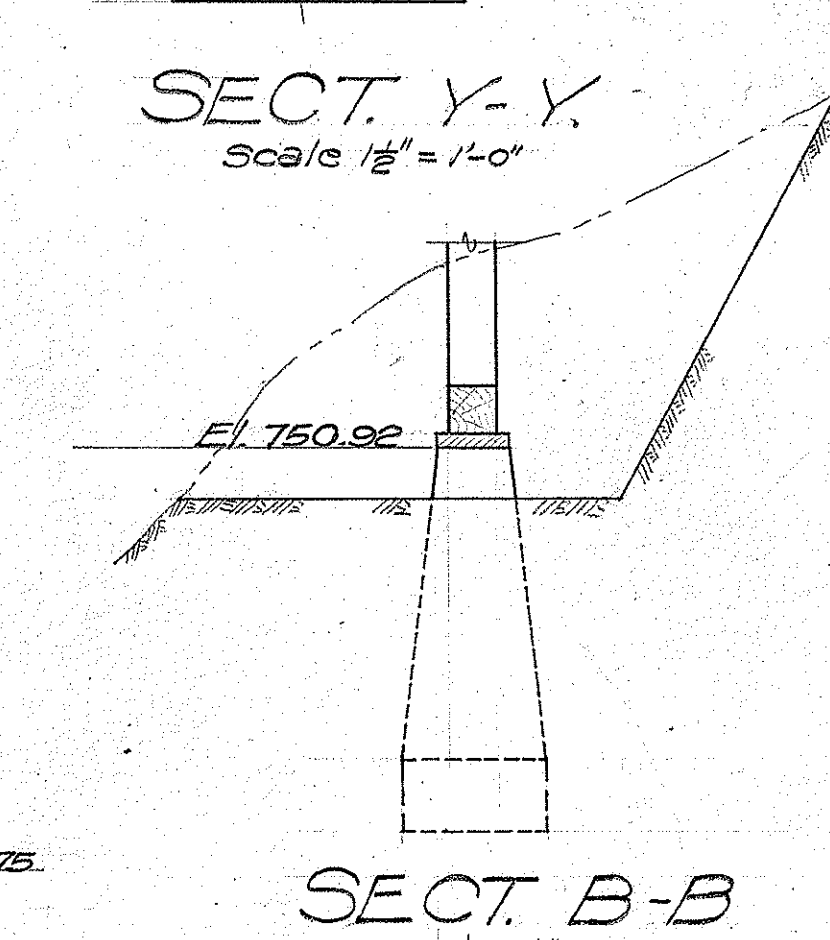


BENT NO. 4 STA. 801+25
Scale 1/4" = 1'-0"

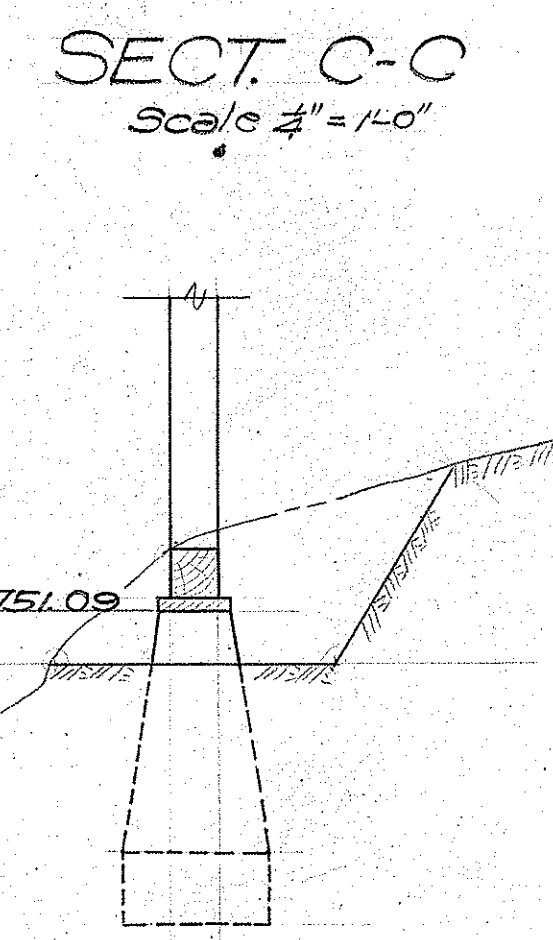


FOOTING DETAIL
Scale 3/8" = 1'-0"

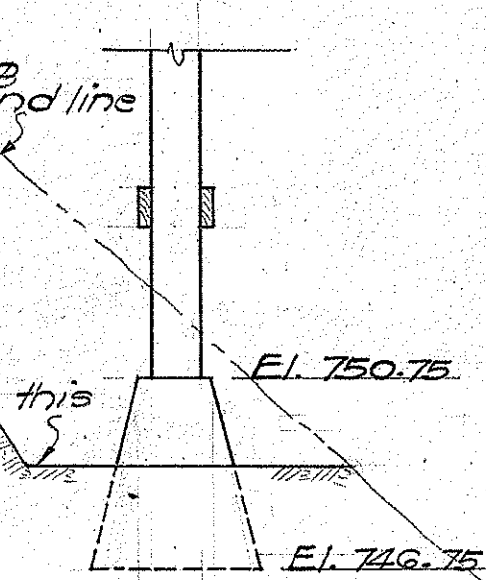
NOTE: Depth of footings below ground depends on foundation and other conditions and shall be determined by the Resident Engineer. Definite vertical dimensions for pile given in these drawings may be altered by the Resident Engineer if local conditions require or permit.



SECT. B-B
Scale 1/2" = 1'-0"



SECT. D-D
Scale 1/2" = 1'-0"



SECT. A-A
Scale 1/2" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

WEST PAAULILO BRIDGE
STA. 800+09.75 to 801+30.64

HAWAII BELT RD. F.A.P. 26 B (1)
JUNE - 1939.

SHEET No 3 OF 4 SHEETS

DESIGNED BY: J. F. JONES
DRAWN BY: J. F. JONES
CHECKED BY: J. F. JONES
DATE: 6/1/39

ORIGINAL PLAN
NOTE BOOK
No.

