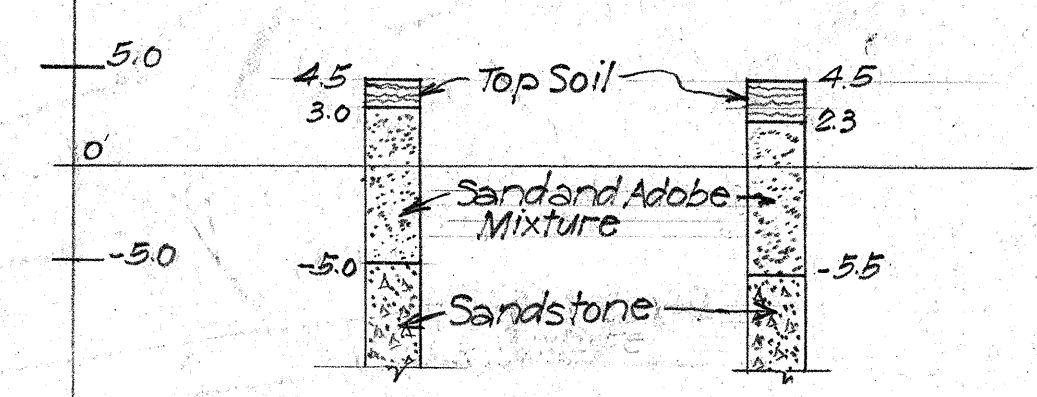
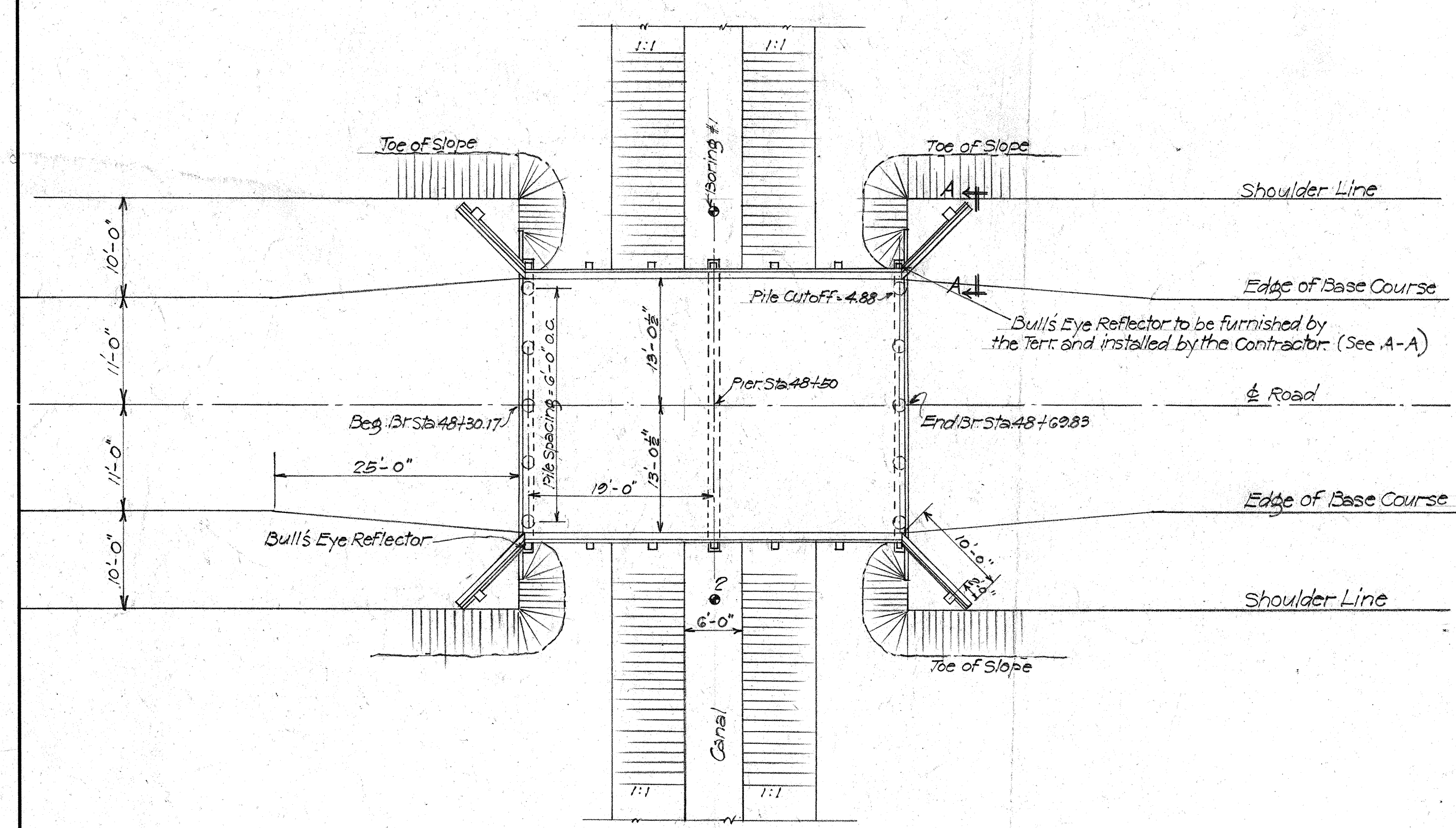


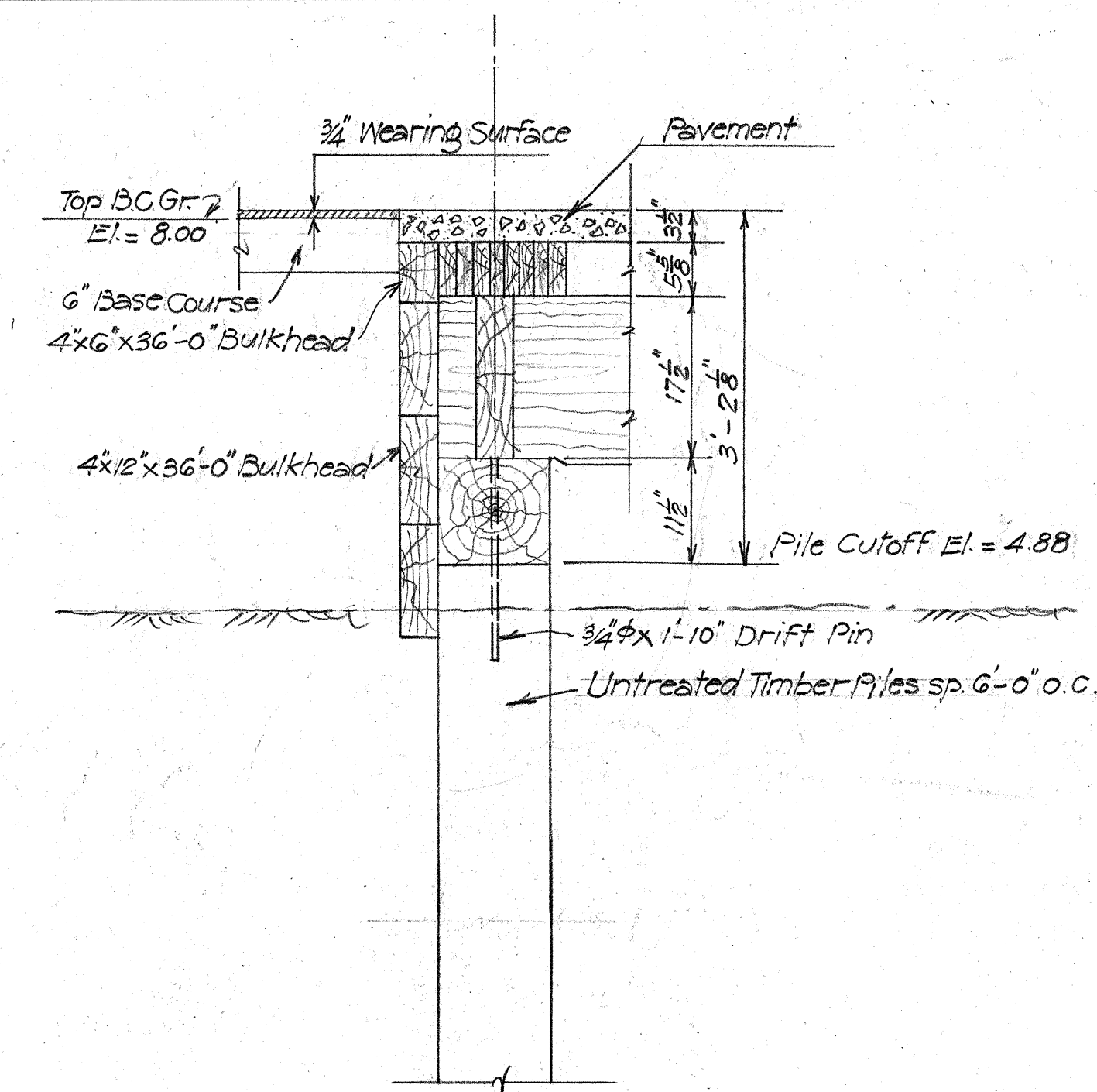
BORING DATA
1" = 10'-0" Vertical



Boring #1 Boring #2

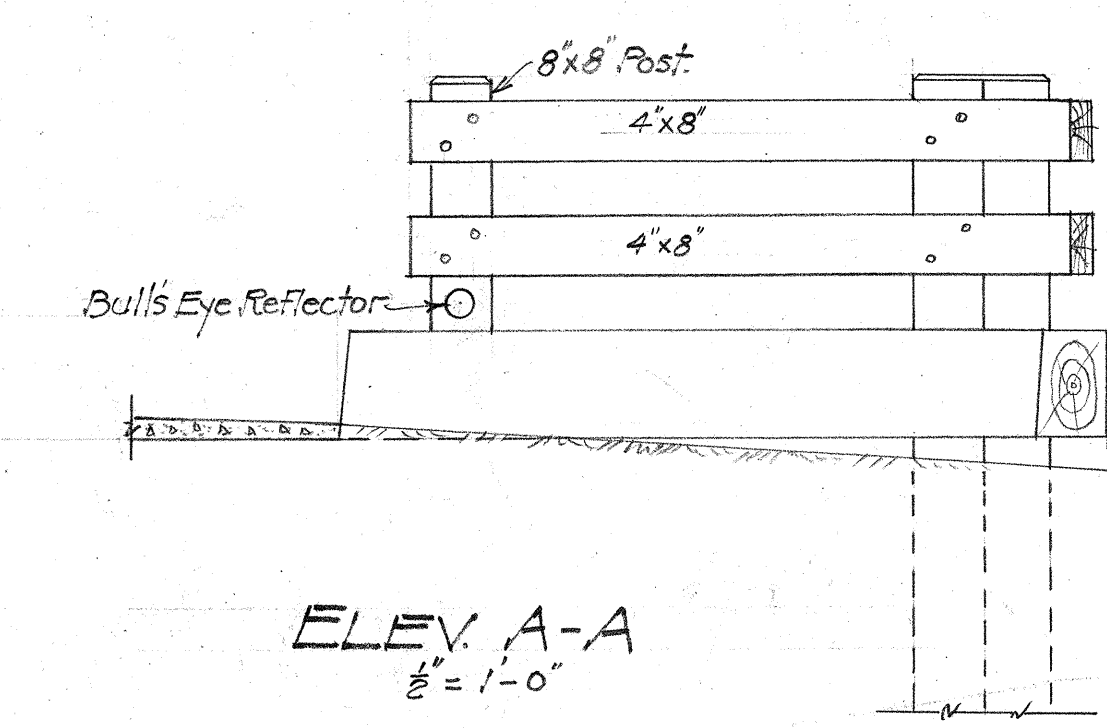


LAYOUT PLAN
Scale 1" = 10'-0"



SECTION OF ABUT AT BRIDGE
3/4" = 1'-0"

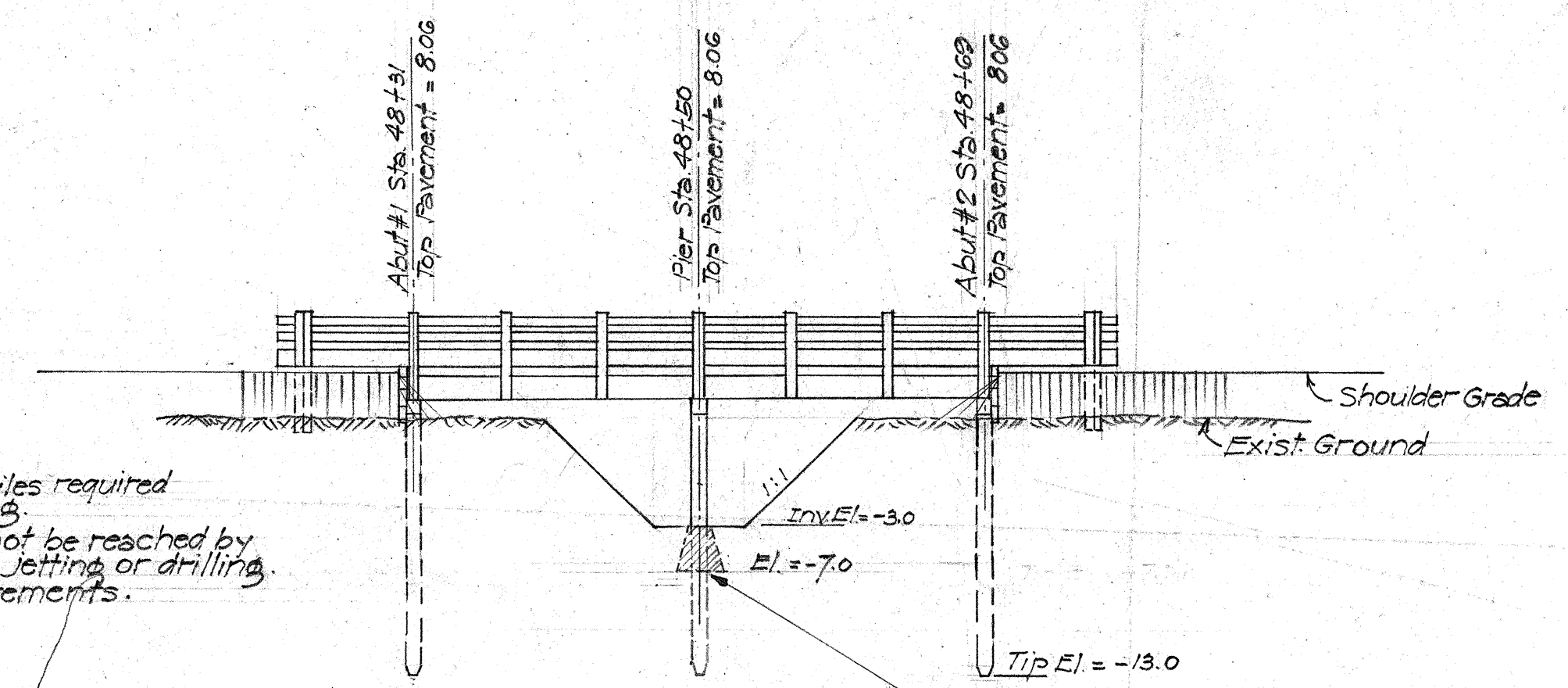
Note! Refer to Std. Br. Details for Deck Section, Railing and all details not shown.



ELEV. A-A
1/2" = 1'-0"

TIMBER BILL OF MATERIAL
DOUGLAS FIR COAST REGION

MEMBER	NO REQD	SIZE & LENGTH	KIND OF LUMBER	MILLWORK	FT. BM
Cap	3	12"x12"x36'-0"	Select struct Post & Timbers	3/1S	1080
Stringers	28	6"x18"x20'-0"	" " Beams & Stringers	Rough Ends Sgd for 1/2" Expt.	5040
Decking	288	2"x6"x28'-0"	" " Joist & Plank	3/1S/E	8064
Whesguard (Br.)	4	12"x14"x20'-0"	No 1 Timbers Post & Timbers	3/1E Beveled	1120
" at Flare	4	12"x14"x10'-0"	" " " "	" "	560
Solid Bridging	2	4"x18"x22'-0"	No 1 Dimension Joist & Plank	3/1E	264
" "	1	4"x18"x14'-0"	" " " "	" "	84
Cross "	4	2"x4"x14'-0"	" " " "	Rough	38
" "	4	2"x4"x16'-0"	" " " "	" "	43
Br Rail Posts	14	8"x8"x6'-0"	Select struct Post & Timber	3/4S	448
" Bott. Rail	4	4"x8"x20'-0"	" " Joist & Plank	" "	213
" Top Rail	4	3"x8"x20'-0"	" " " "	" "	160
Rail Filler Block	1	2"x8"x10'-0"	No 1 Dimension "	Rough	13
" " "	1	2"x8"x12'-0"	" " " "	" "	16
Splice Block	1	6"x18"x6'-0"	Select struct Beams & Stringers	3/1E	54
Guard Rail (Top Bott)	8	4"x8"x10'-0"	" " Joist & Plank	3/4S	213
Guard Rail Post	4	12"x12"x8'-0"	" " Posts & Timbers	" "	384
Bulkhead Plank	2	4"x6"x36'-0"	No 1 Dimension Joist & Plank	Rough	144
" "	6	4"x12"x36'-0"	" " " "	" "	864
Bracing Posts	4	5"x10"x26'-0"	Select struct Joist & Plank	" "	260
" "	5	12"x12"x8'-0"	" " Post & Timber	" "	480
Total					19,542



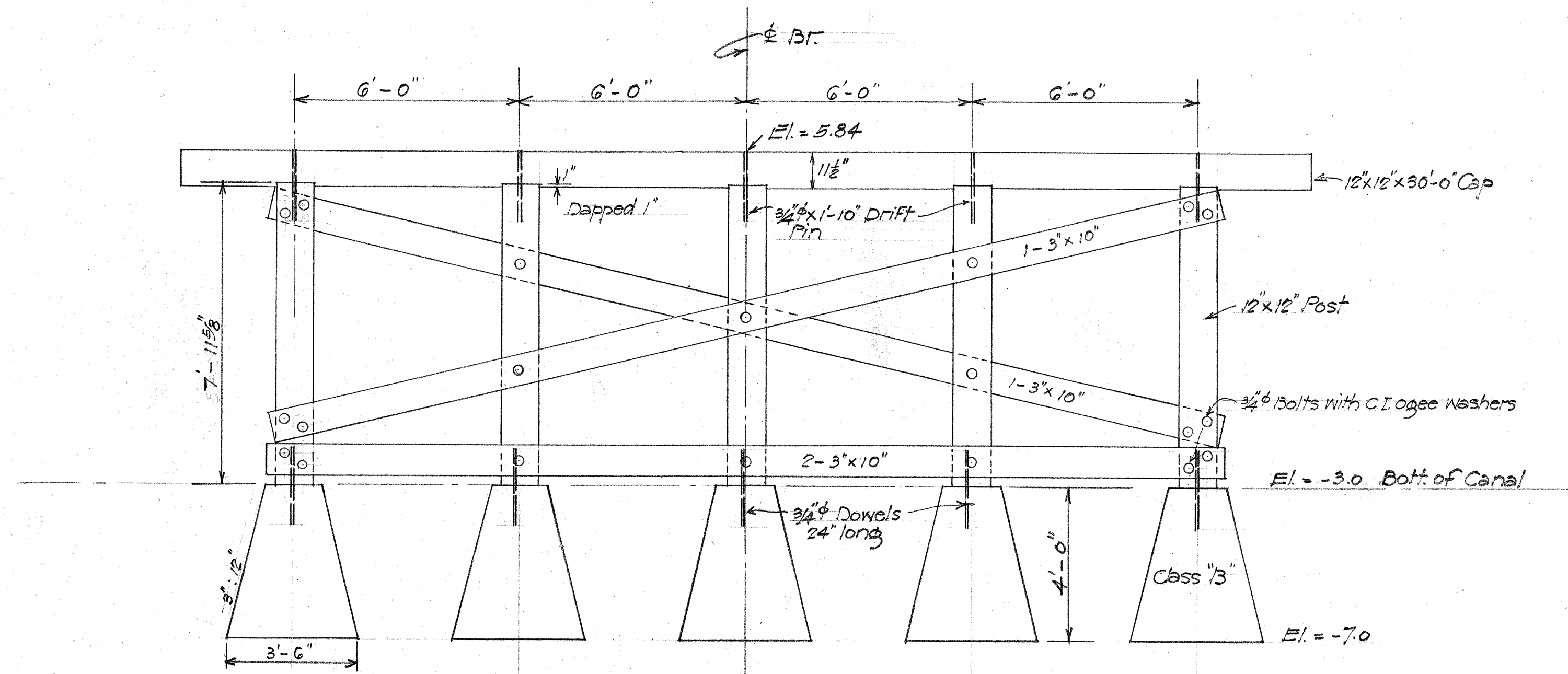
Conc. Footings Eliminated and Wooden Piles Substituted.

ELEVATION
Scale 1" = 10'-0"

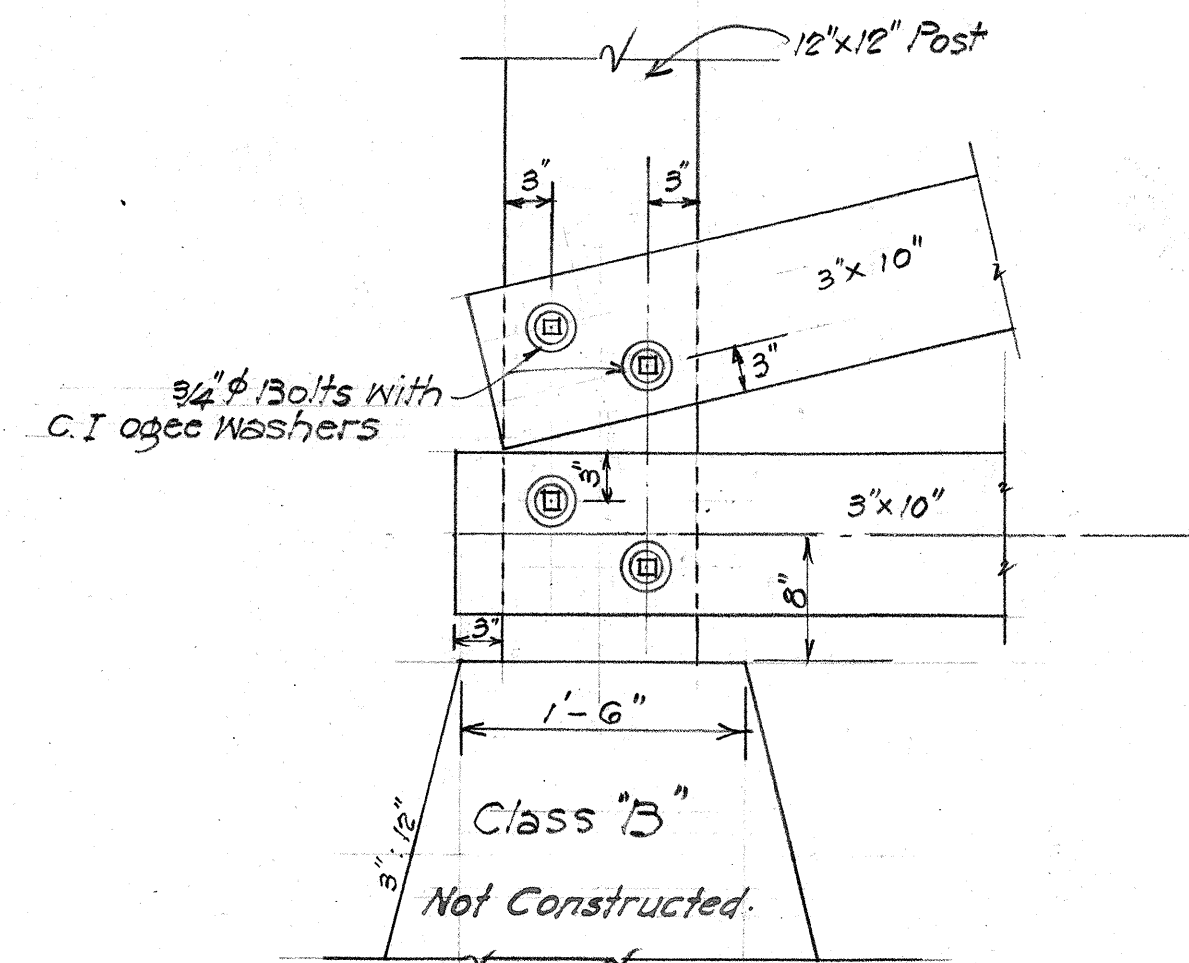
Rev. June 28, 1944.

ORIGINAL SURVEY PLOTTED BY DATE	DESIGNED BY	DRAWN BY	CHECKED BY
PLAN	NOTES	QUANTITIES	NO.

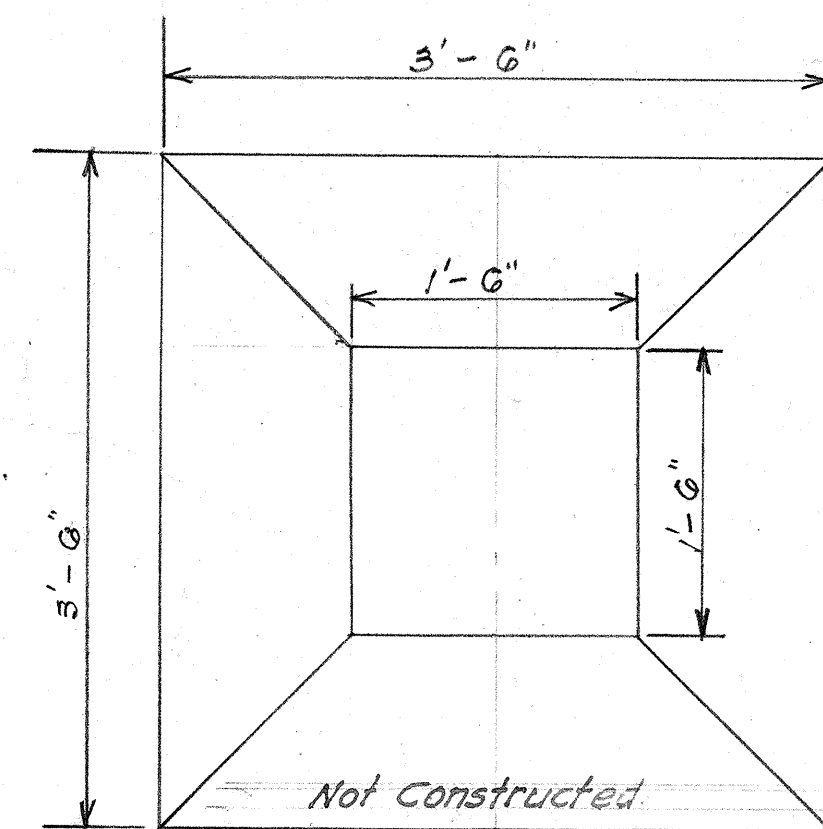
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 1
Sta 48+30.17 - 48+69.83
MANA-KEKAHA ACCESS RD DAWR-1
oct 1942



This Section was eliminated.
ELEVATION OF PIER
 Scale 3/8" = 1'-0"



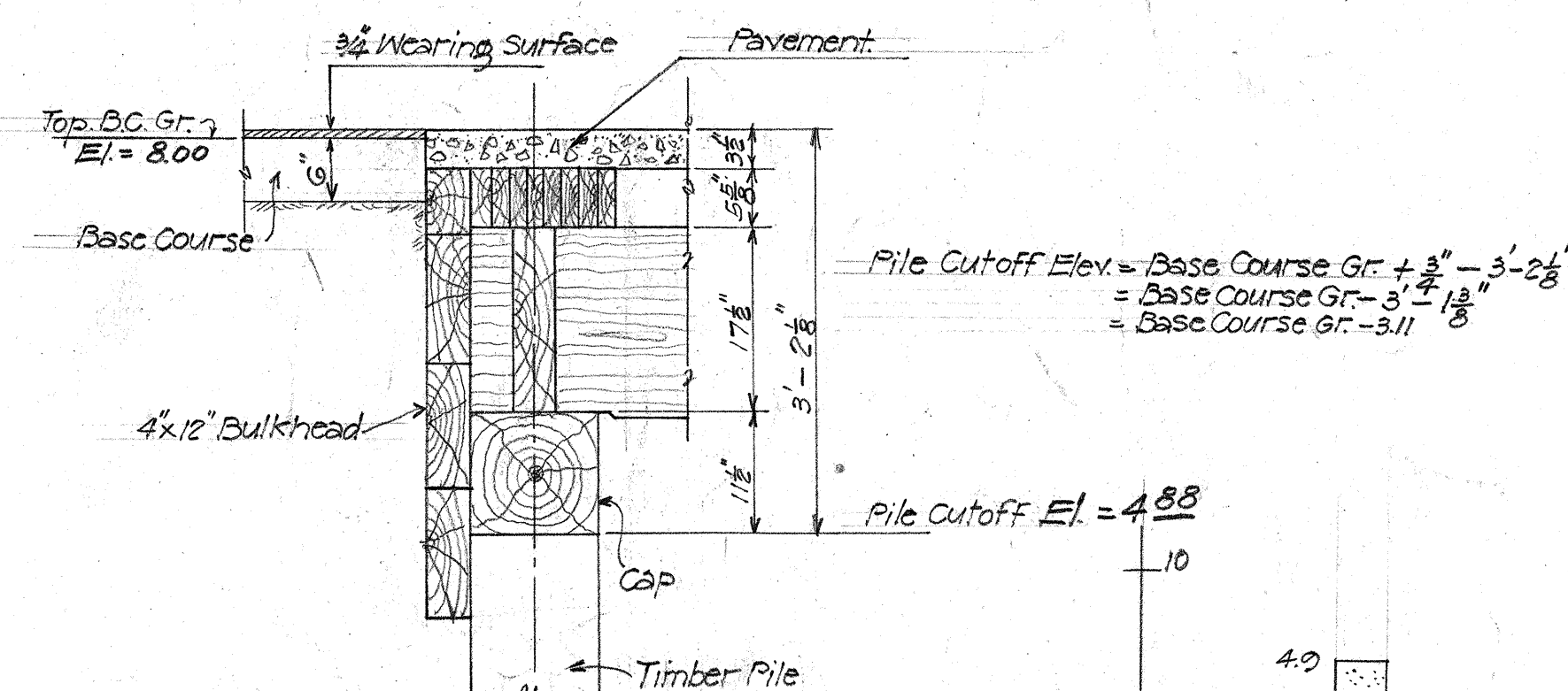
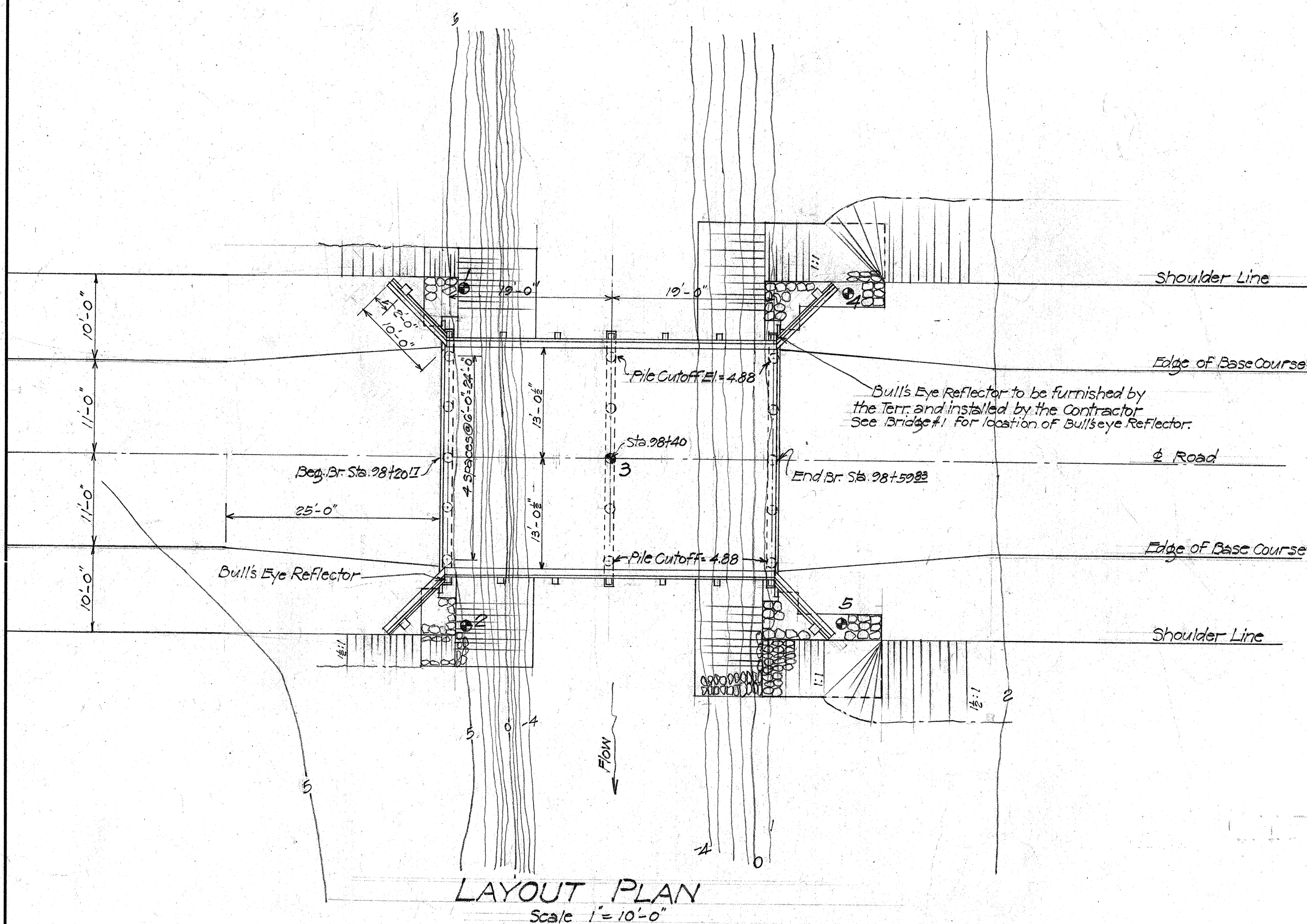
DETAIL "A"
 1" = 1'-0"



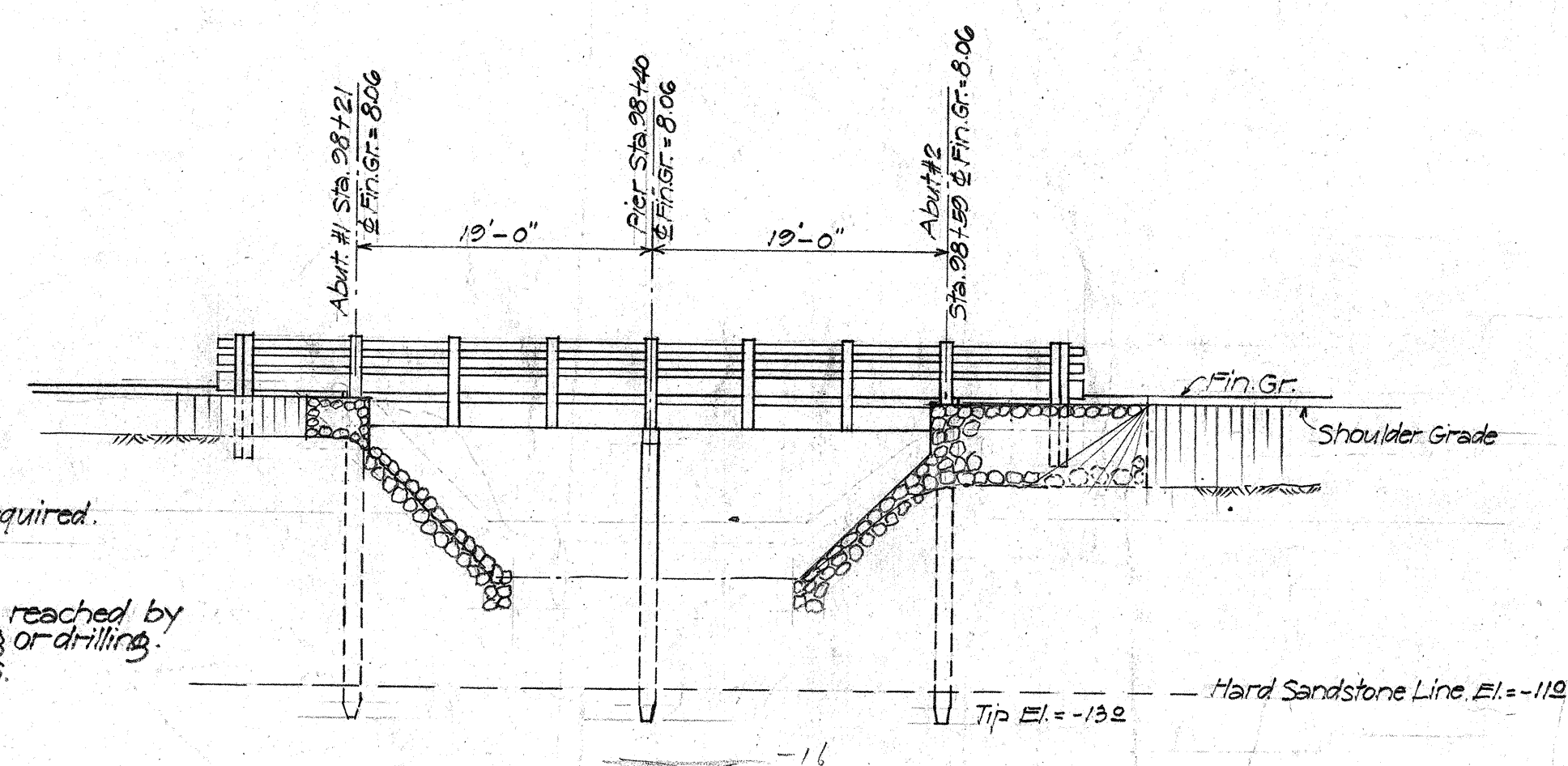
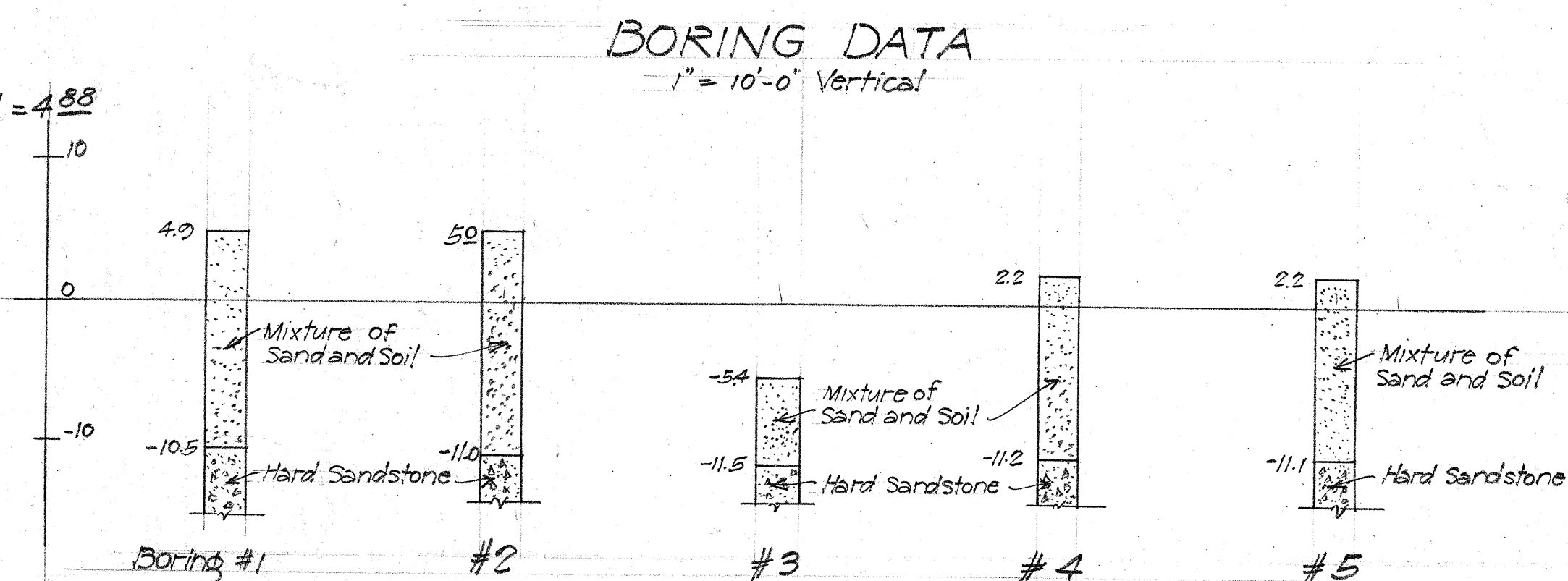
PLAN - CONC. FOOTING
 1/2" = 1'-0"

ESTIMATED QUANTITIES	
Item	Quantity
Untreated Timber	19,542 Ft. B.M.
Untreated Timber Piles	250 Lin. Ft.
Str. Exc.	69.0 C.Y.
Channel Exc.	330.0 C.Y.
Coarse Rock	12.2 C.Y.
Keystone	1.2 C.Y.
Screening	0.6 C.Y.
Chips	0.3 C.Y.
Bituminous Binder	1.0 Ton
Class "B" Conc.	4.9 C.Y.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
BRIDGE NO. 1
 Sta. 48+30.17 - 48+69.83
 MANA-KEKAHA ACCESS RD DAWR-1
 Oct. 1942



SECT. END BENT
AT ϕ BRIDGE
Scale $\frac{3}{4}" = 1'-0"$



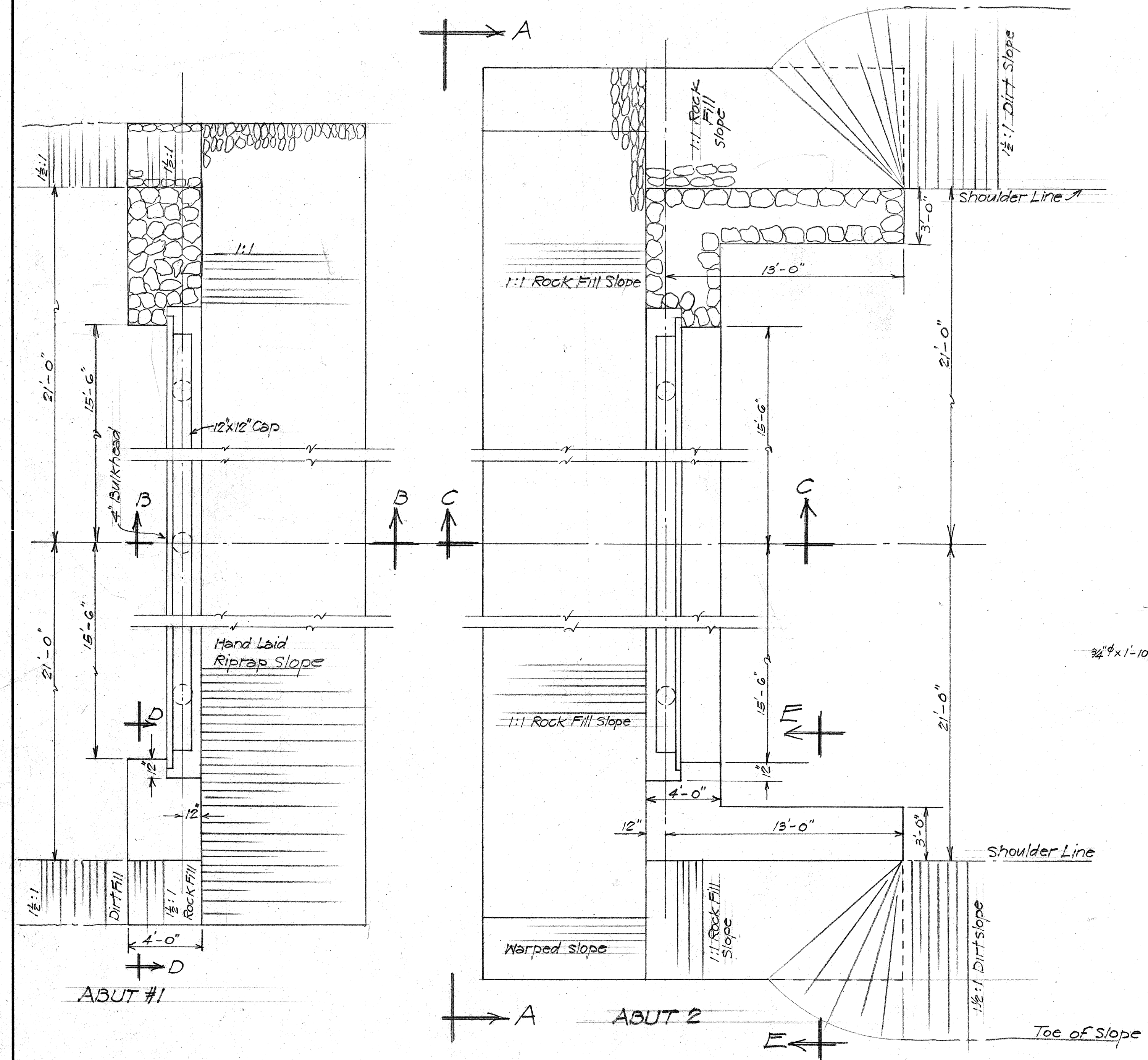
DOWNSTREAM ELEVATION
Scale 1" = 10'-0"

TIMBER BILL OF MATERIAL					
DOUGLAS FIR			COAST REGION		
MEMBER	No. REQ'D	SIZE & LENGTH	KIND OF LUMBER	MILL WORK	Ft. B.M.
Cap	3	12"x12"x90'-0"	Select. Struct. Posts & Timbers	S1S	1080
Stringers	28	6"x18"x20'-0"	" " Beams & Stringers	Rough, Planed sized to 1 1/2" exact.	5,040
Decking	288	2"x6"x28'-0"	" " Joist & Plank	S1S1E	8,064
Wheelguard (Br.)	4	12"x14"x20'-0"	No.1 Timbers Posts & Timbers	S1E Beveled	1,120
" at Flare	4	12"x14"x10'-0"	" " " "	" "	500
Solid Bridging	2	4"x18"x22'-0"	No.1 Dimension Joist & Plank	S1E	264
" "	1	4"x18"x14'-0"	" " " "	"	84
Cross "	4	2"x4"x14'-0"	" " " "	Rough	38
" "	4	2"x4"x16'-0"	" " " "	"	43
Br. Rail Posts	14	8"x8"x6'-0"	Select. Struct. Posts & Timbers	S4S	448
" Bott. Rail	4	4"x8"x20'-0"	" " Joist & Plank	"	213
" Top Rail	4	3"x8"x20'-0"	" " " "	"	160
Rail Filler Block	1	2"x8"x10'-0"	No.1 Dimension " "	Rough	13
" "	1	2"x8"x12'-0"	" " " "	"	16
Splice Block	1	6"x18"x6'-0"	Select. Struct. Beams & Stringers	S1E	54
Guard Rail (Top & Bott.)	8	4"x8"x10'-0"	" " Joist & Plank	S4S	213
Guard Rail Post	4	12"x12"x8'-0"	" " Posts & Timbers	"	384
Bulkhead Plank	2	4"x6"x32'-0"	No.1 Dimension Joist & Plank	Rough	128
" "	6	4"x12"x32'-0"	" " " "	"	768
				Total	18,620

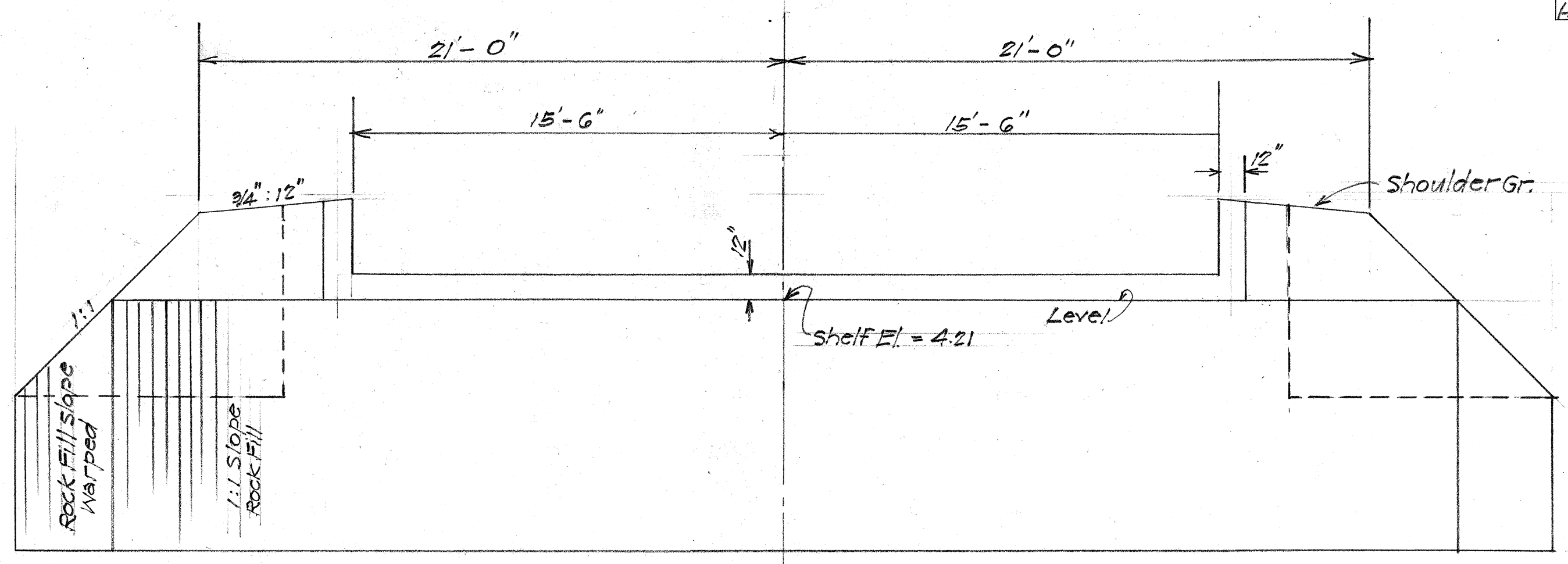
Item	Quantity
Untreated Timber	18690 Ft.B.M.
Untreated Timber Piles	375 Lin Ft.
Hand-Laid Riprap	108.0 C.Y.
Hand Placed Rock/Fill	71.0 C.Y.
Coarse Rock	12.2 C.Y.
Keystone	12 C.Y.
Screenings	0.6 C.Y.
Chips	0.3 C.Y.
Bituminous Binder	1.0 Ton

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 2
Sta 98420.17 - 98459.83
MANA-KEKAHA ACCESS RD. DAWR-1
Oct 1942

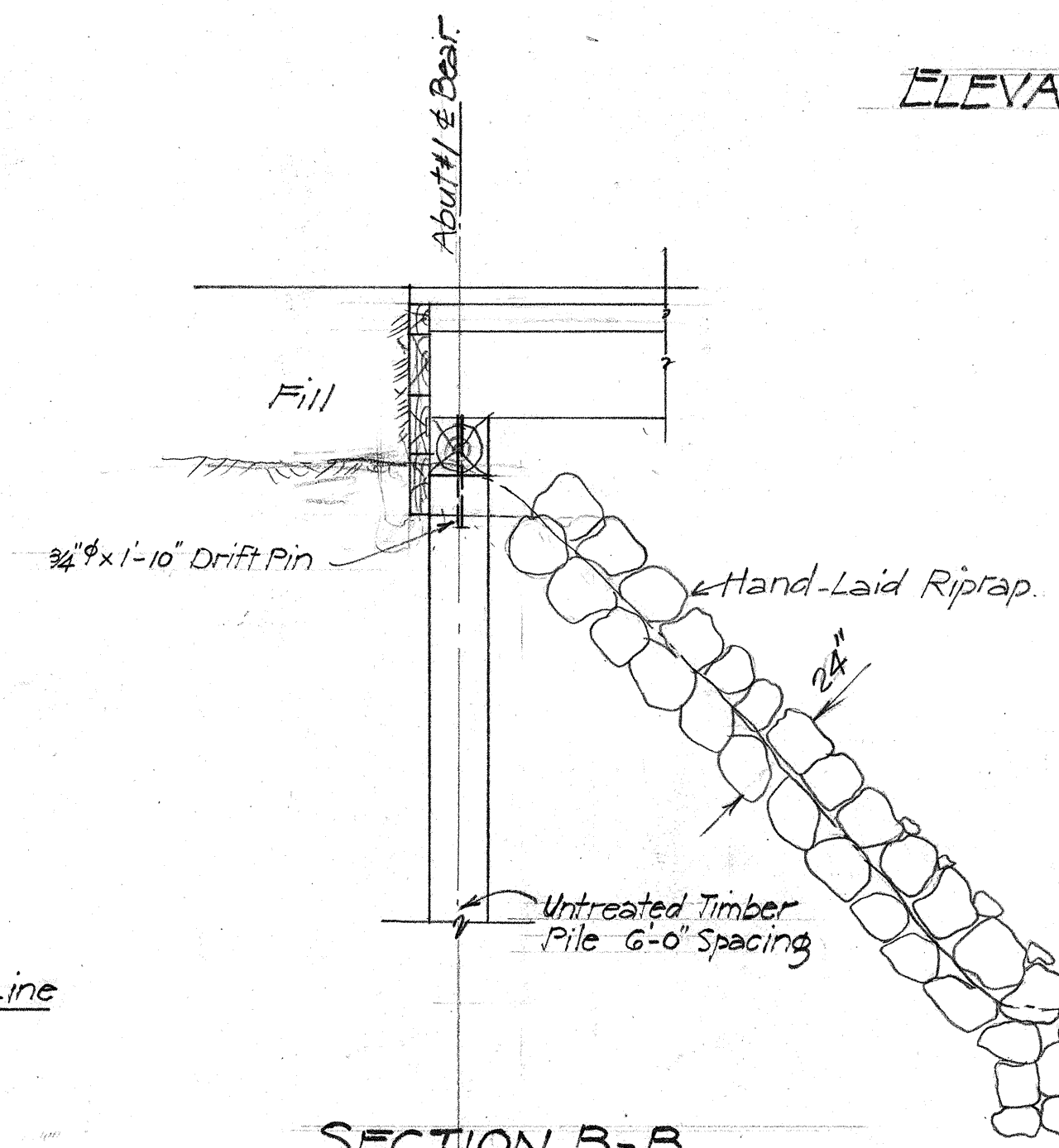
This sheet voided on account of
change in Req. of Proj. - 2/20/43.



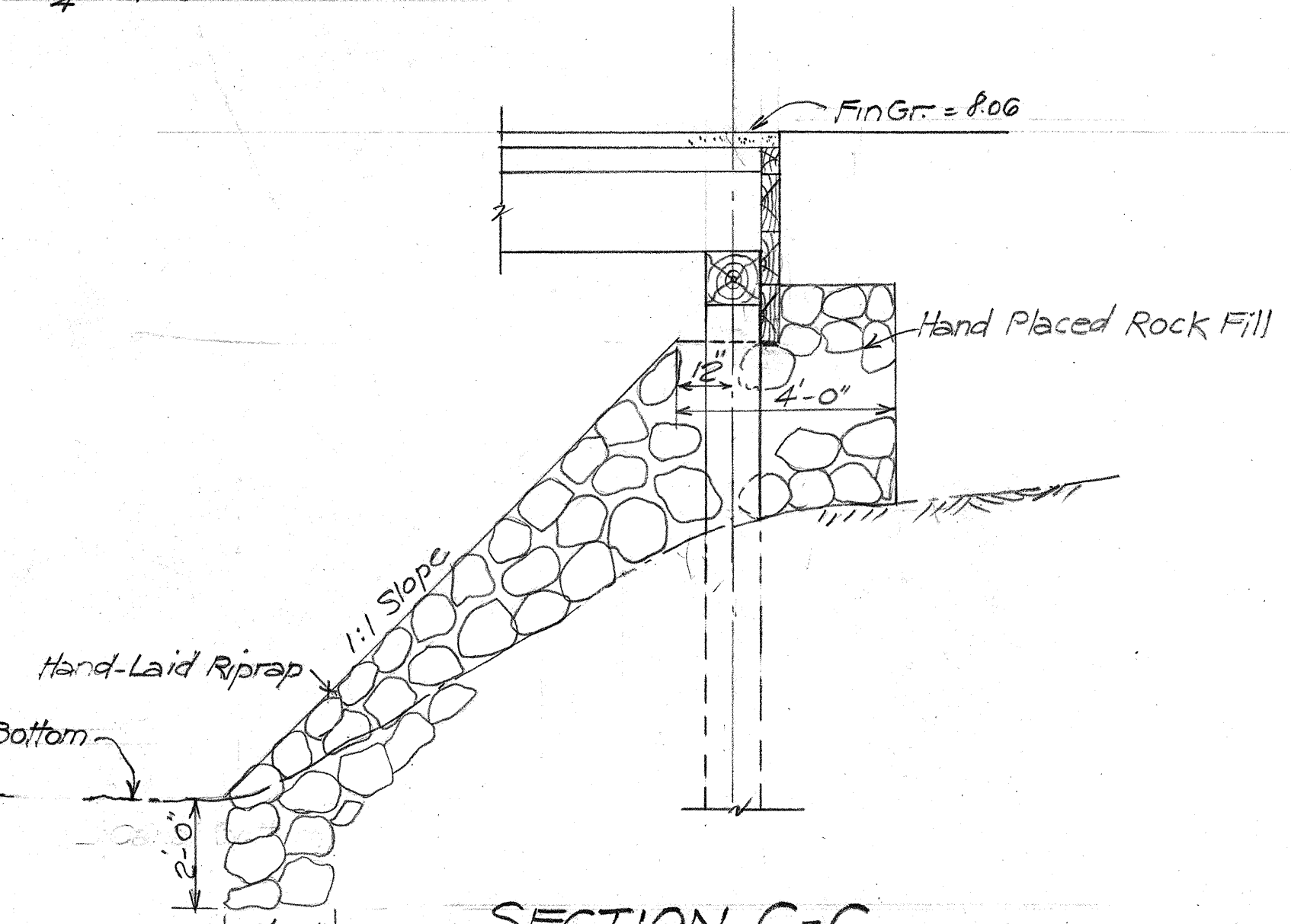
ROCK FILL PLAN
1/4" = 1'-0"



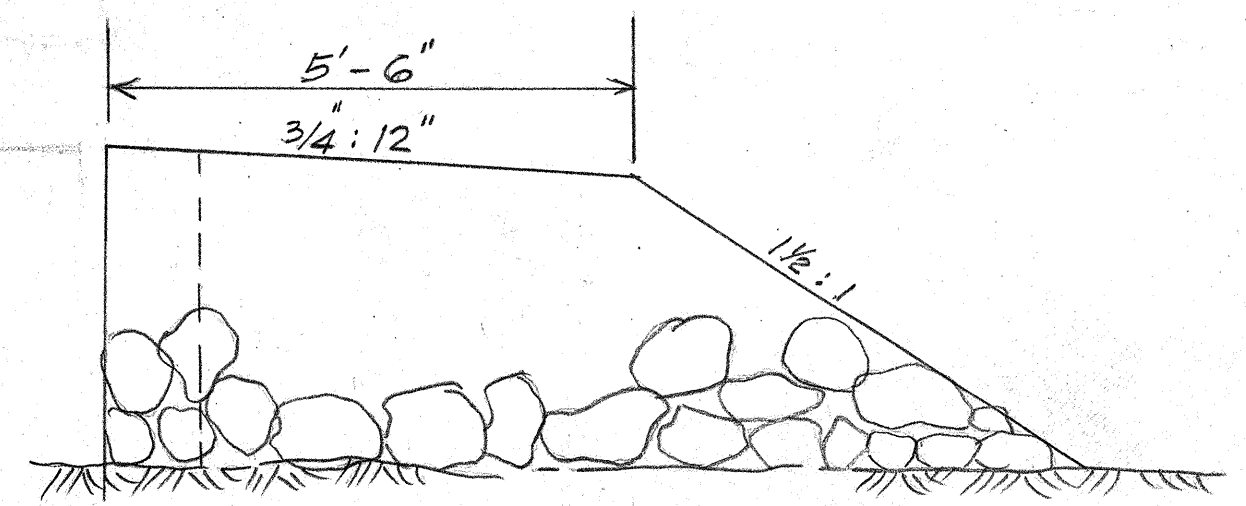
ELEVATION A-A SHOWING ROCK FILL
1/4" = 1'-0"



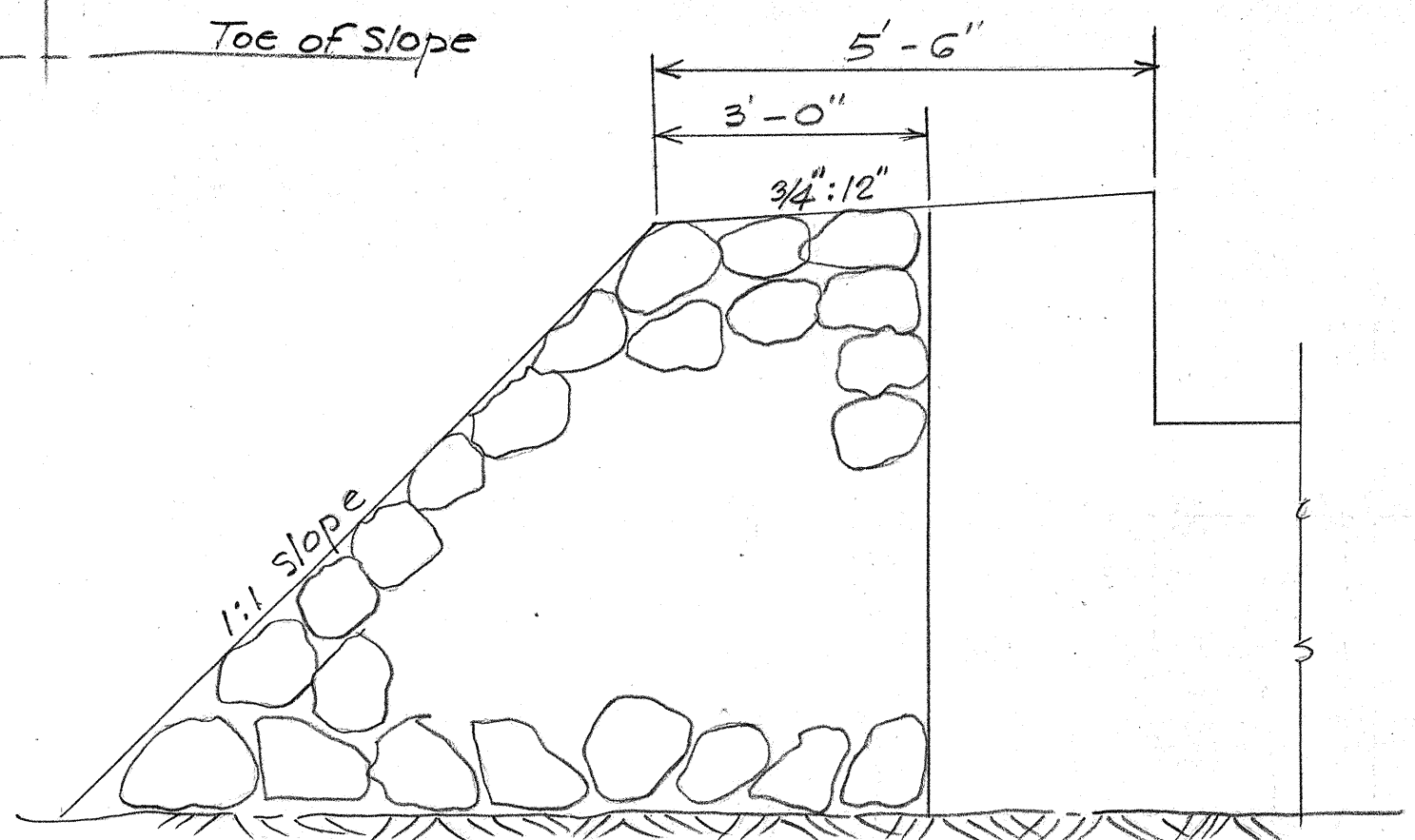
SECTION B-B
3/8" = 1'-0"



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



SECTION D-D
1/2" = 1'-0"

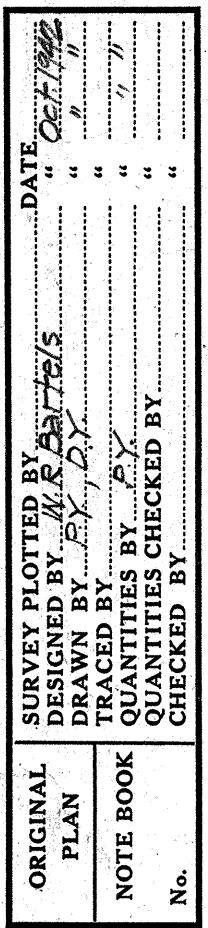


SECTION E-E
1/2" = 1'-0"

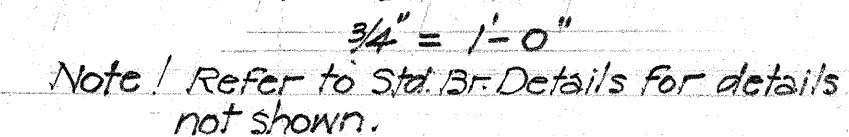
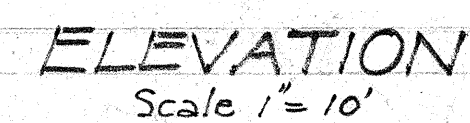
This sheet voided on account of change in Reg of Proj. 2/20/43

ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 2
Sta. 28+20.17 - 28+52.83
MANA-KEKAHA ACCESS RD DA-WR-1
Oct. 1942



Untreated Timber Piles Required
15 pc. 25'-0" long
Note: If Tip Elev. cannot be reached by
driving, resort to jacking or drilling
See Spec. Requirements.



DOUGLAS FIR COAST REGION

ESTIMATED QUANTITIES

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGE No 3

$$Sta. 120+80.17 - 121+19.83$$

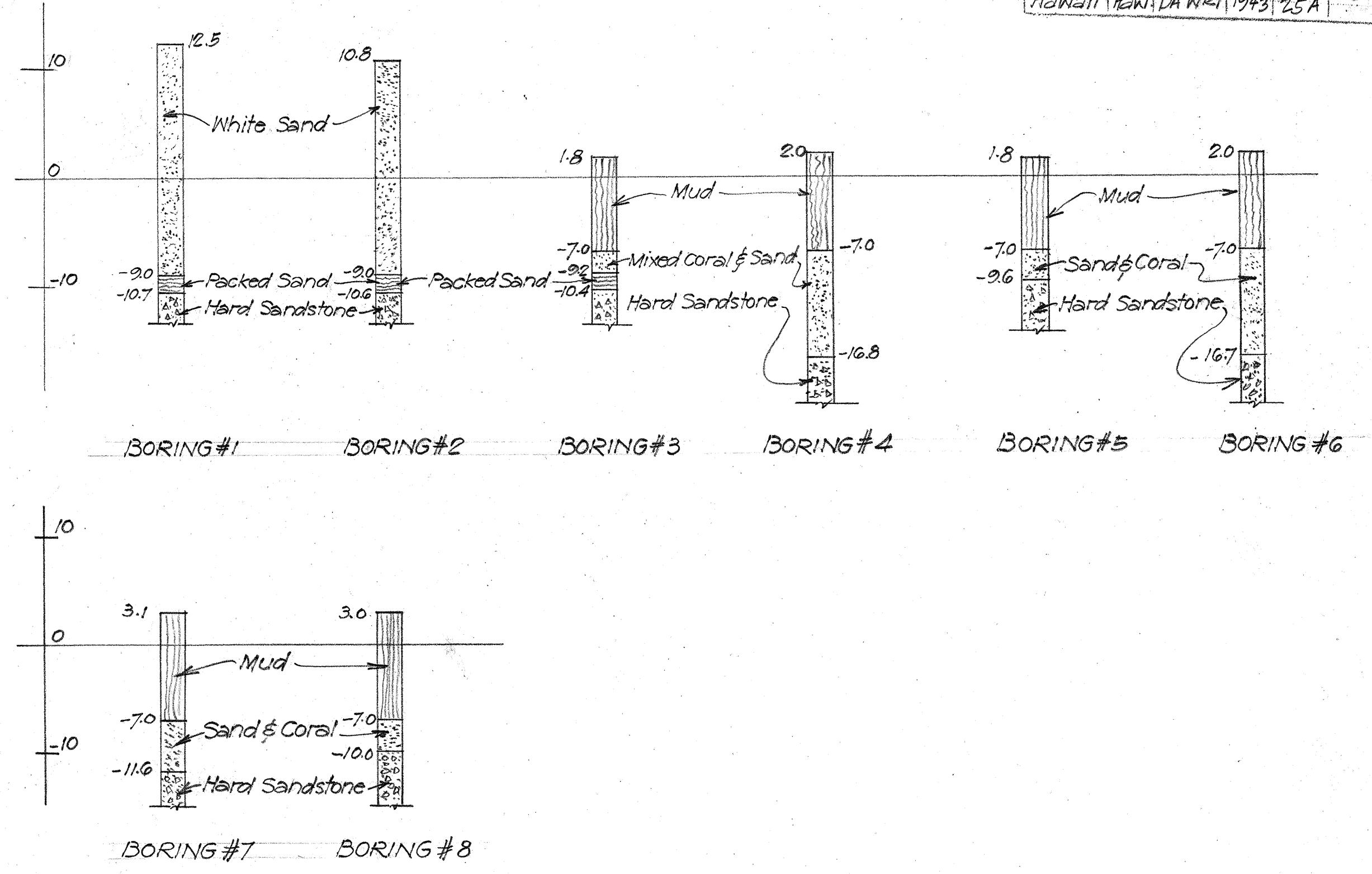
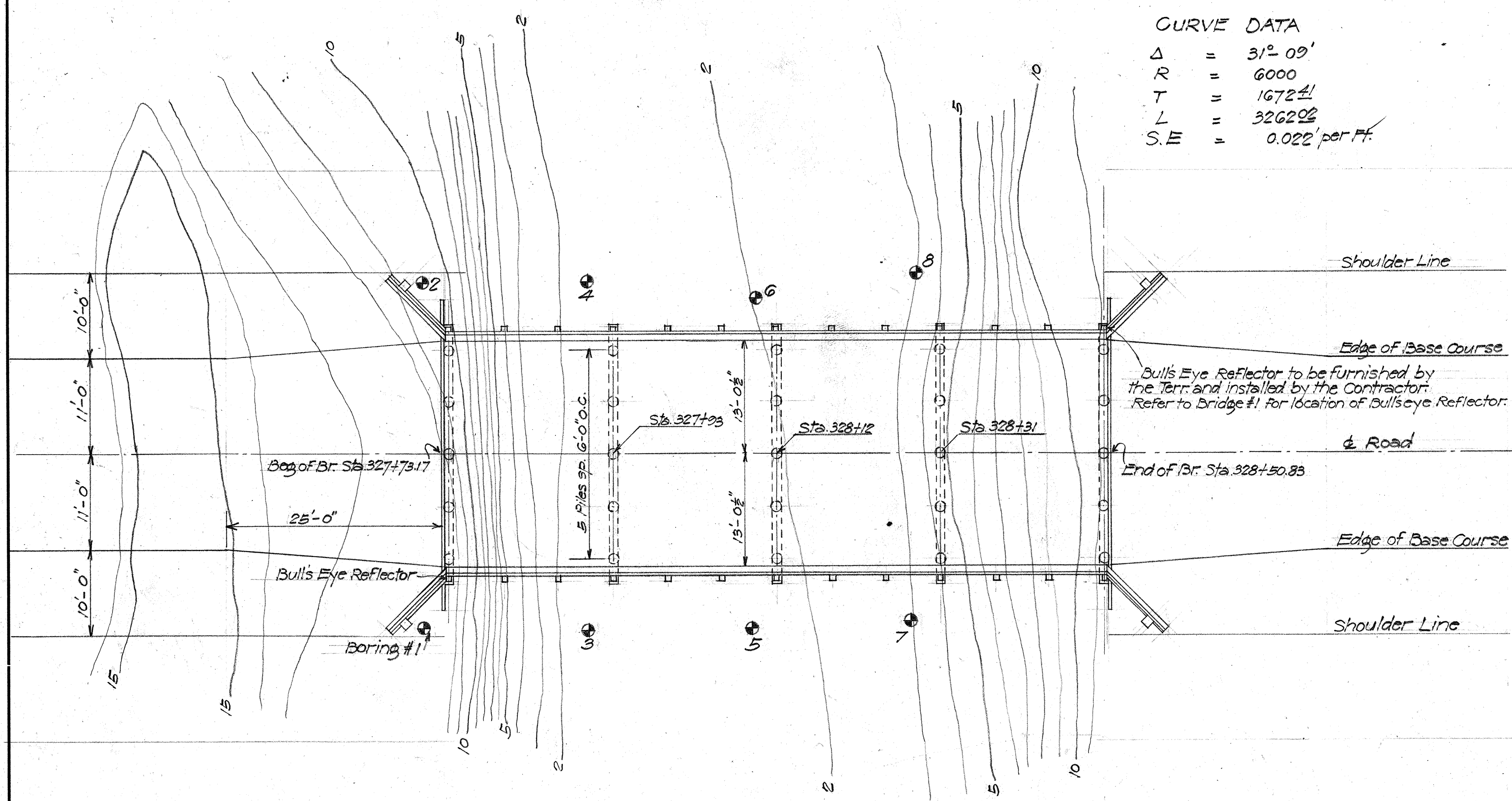
MANA-KEKAHA ACCESS RD DAWR-1

Oct. 1942

SHEET No / OF / SHEETS

5100.33

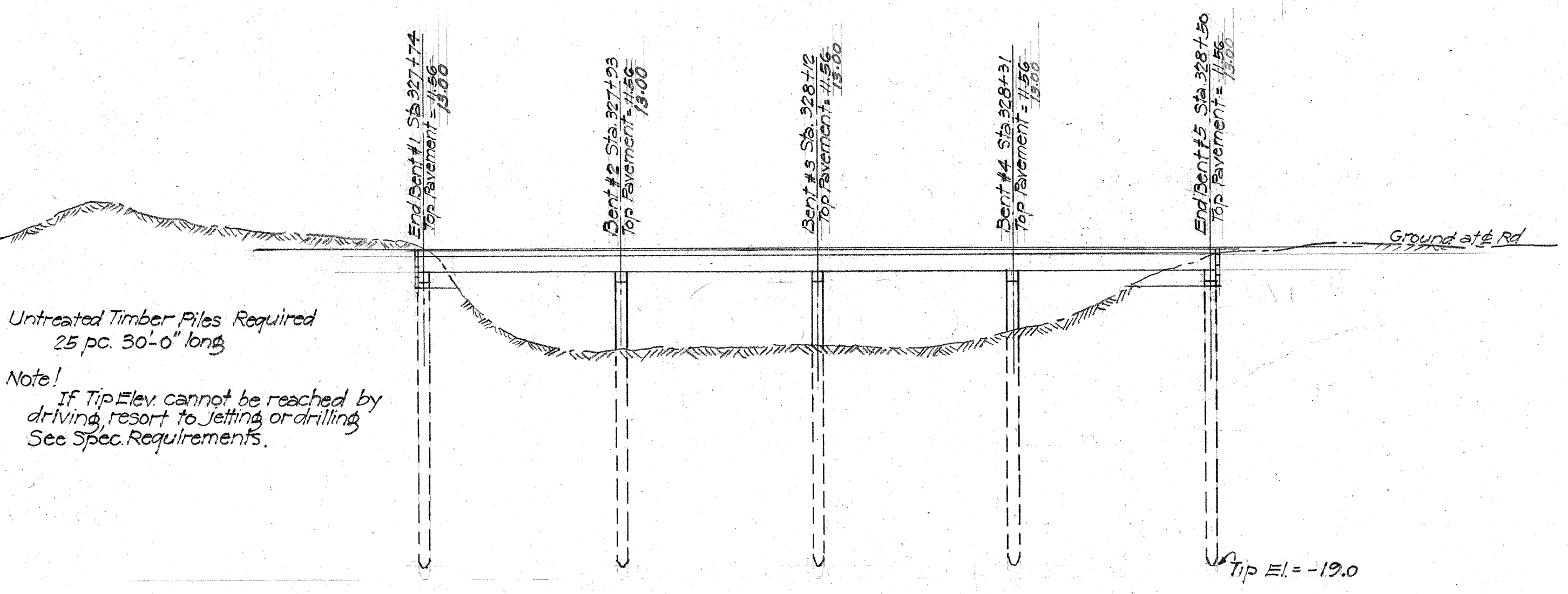
CURVE DATA
 $\Delta = 31^{\circ} 09'$
 $R = 6000$
 $T = 1672.41$
 $L = 3262.08$
 $S.E. = 0.022'$ per Ft.



LAYOUT PLAN
Scale 1" = 10'-0"

TIMBER BILL OF MATERIAL

DOUGLAS FIR COAST REGION					
MEMBER	NO REQD	SIZE & LENGTH	KIND OF LUMBER	MILLWORK	FT B.M.
Cap	5	12"x12"x30'-0"	Select Struct. Posts & Timbers	S/S	1,800
Stringer	56	6"x18"x20'-0"	" " Beams & Stringers	Rough Ends sized to fit	10,080
Decking	560	2"x6"x28'-0"	" " Joist & Plank	S/S/E	1,593.2
Wheelguard (Br)	8	12"x14"x20'-0"	No. 1 Timbers Posts & Timbers	S/E, Beveled	2,240
" at Flare	4	12"x14"x10'-0"	" " " "	"	560
Solid Bridging	2	4"x18"x22'-0"	No. 1 Dimension Joist & Plank	S/E	264
" "	3	4"x18"x14'-0"	" " " "	"	282
Cross "	8	2"x4"x14'-0"	" " " "	Rough	75
" "	8	2"x4"x16'-0"	" " " "	"	85
Br. Rail Post	26	8"x8"x6'-0"	Select Struct. Posts & Timbers	S/S	832
" Bott Rail	8	4"x8"x20'-0"	" " Joist & Plank	"	427
" Top Rail	8	3"x8"x20'-0"	" " " "	"	320
Rail Filler Block	1	2'x8'x20'-0"	No. 1 Dimension " "	Rough	27
" " "	1	6'x8'x10'-0"	" " Beams & Stringers	Rough cut to fit	40
" " "	2	6'x8'x16'-0"	" " " "	" " "	128
" " "	1	6'x8'x20'-0"	" " " "	" " "	80
" " "	1	4'x8'x12'-0"	" " Joist & Plank	" " "	32
" " "	1	4'x8'x10'-0"	" " " "	" " "	27
Splice Block	3	6'x18'x6'-0"	Select Struct. Beams & Stringers	S/E	162
Guard Rail (Top & Bott)	8	4'x8'x10'-0"	" " Joist & Plank	S/S	213
Guard Rail Post	4	12'x12'x8'-0"	" Posts & Timbers	"	384
Bulkhead Plank	2	4'x6'x36'-0"	No. 1 Dimension Joist & Plank	Rough	144
" "	6	4'x12'x36'-0"	" " " "	"	864
Total					34,968

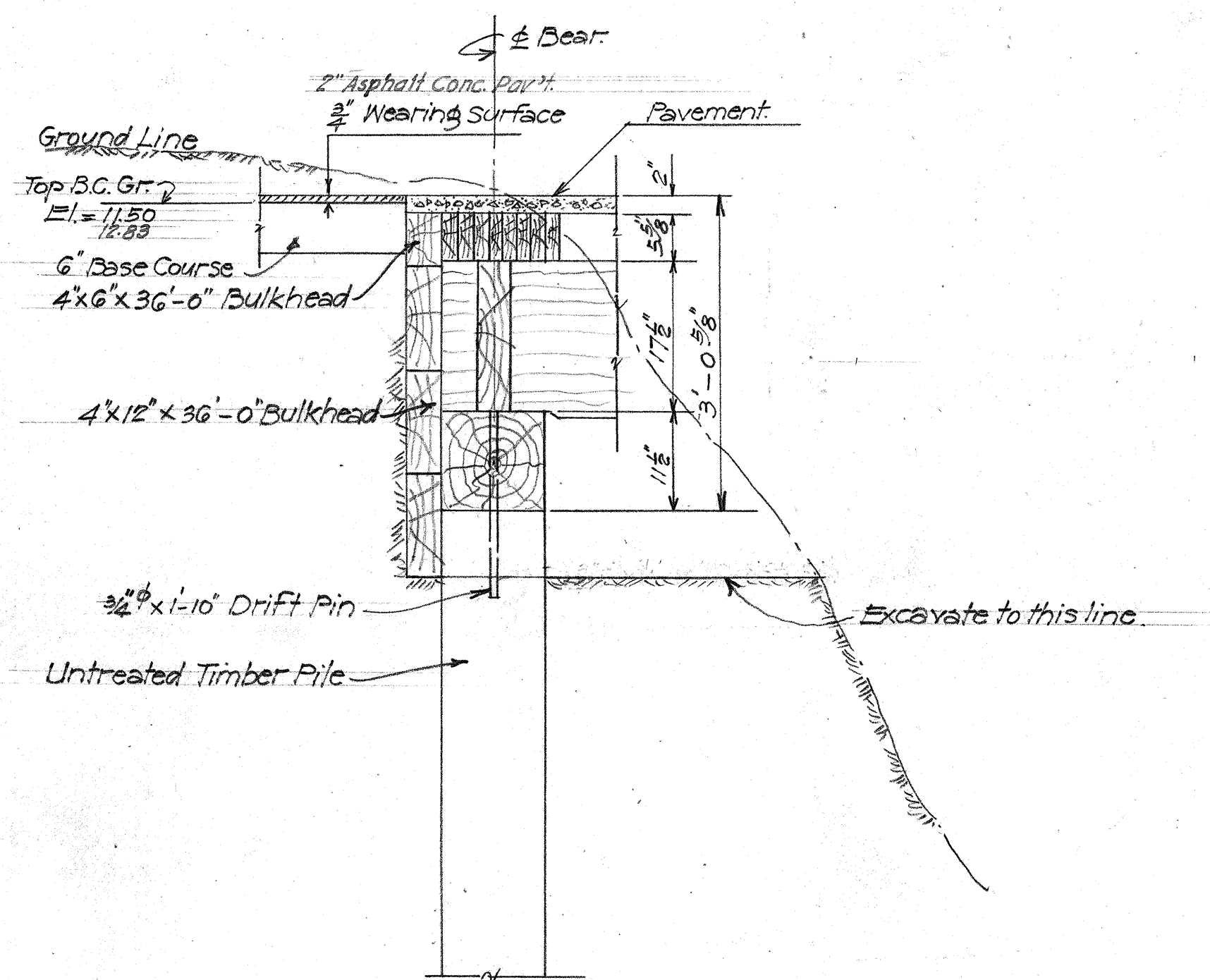


SECTION ALONG & BRIDGE
Scale 1" = 10'-0"

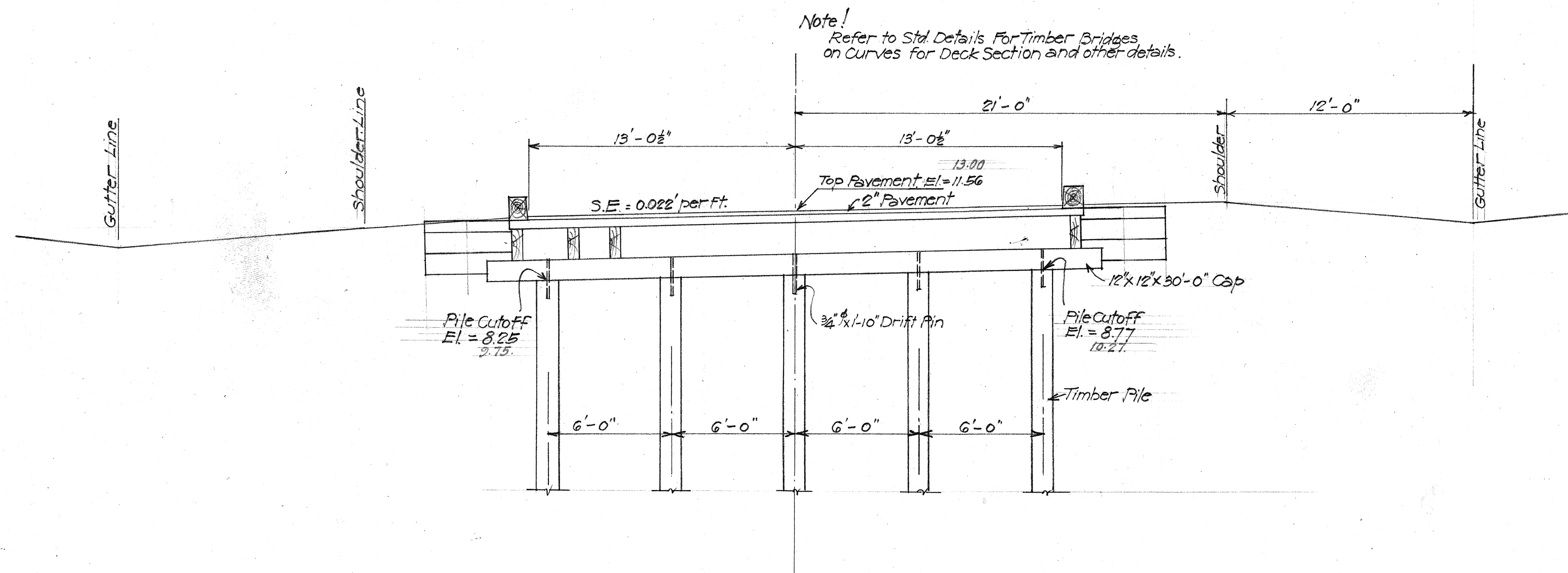
Untreated Timber Piles Required
25 pc. 30'-0" long
Note!
If Tip Elev. cannot be reached by driving, resort to jacking or drilling.
See Spec. Requirements.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	DAWR-1	1942	35	72

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	DAWR-1	1943	16A	



SECTION OF END BENT
AT & BRIDGE
3/8" = 1'-0"



ELEVATION OF END BENT NO. 5 (Looking along Stationing)
Scale 1/4" = 1'-0"
Note: Pile Cutoff El. of Bents 1, 2, 3, and 4 same as above.

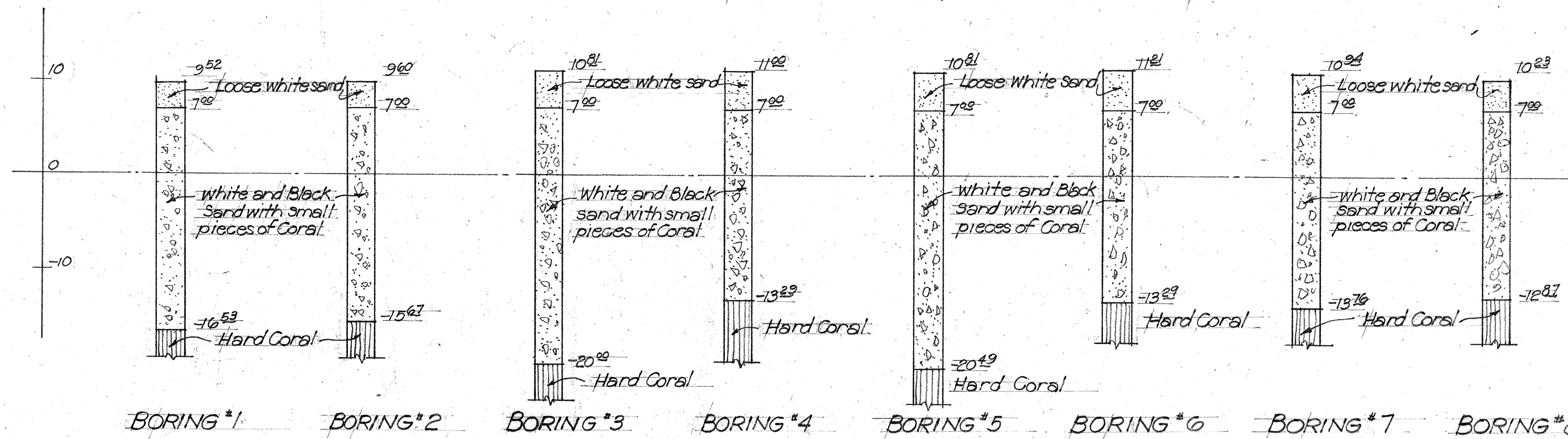
ESTIMATED QUANTITIES	
Item	Quantity
Untreated Timber	34,968 Ft. B.M.
Untreated Timber Piles	750 Lin. Ft.
Str. Exc.	95 C.Y.
Coarse Rock	17.0 C.Y.
Keystone	2.3 C.Y.
Screenings	1.2 C.Y.
Chips	0.7 C.Y.
Bituminous Binder	2.0 Tons

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 4
Sta 327+73.17 - 328+50.83
MANA-KEKAHA ACCESS RD. DAWR-1
Oct. 1942
SHEET No 2 OF 2 SHEETS

Rev. June 28, 1944

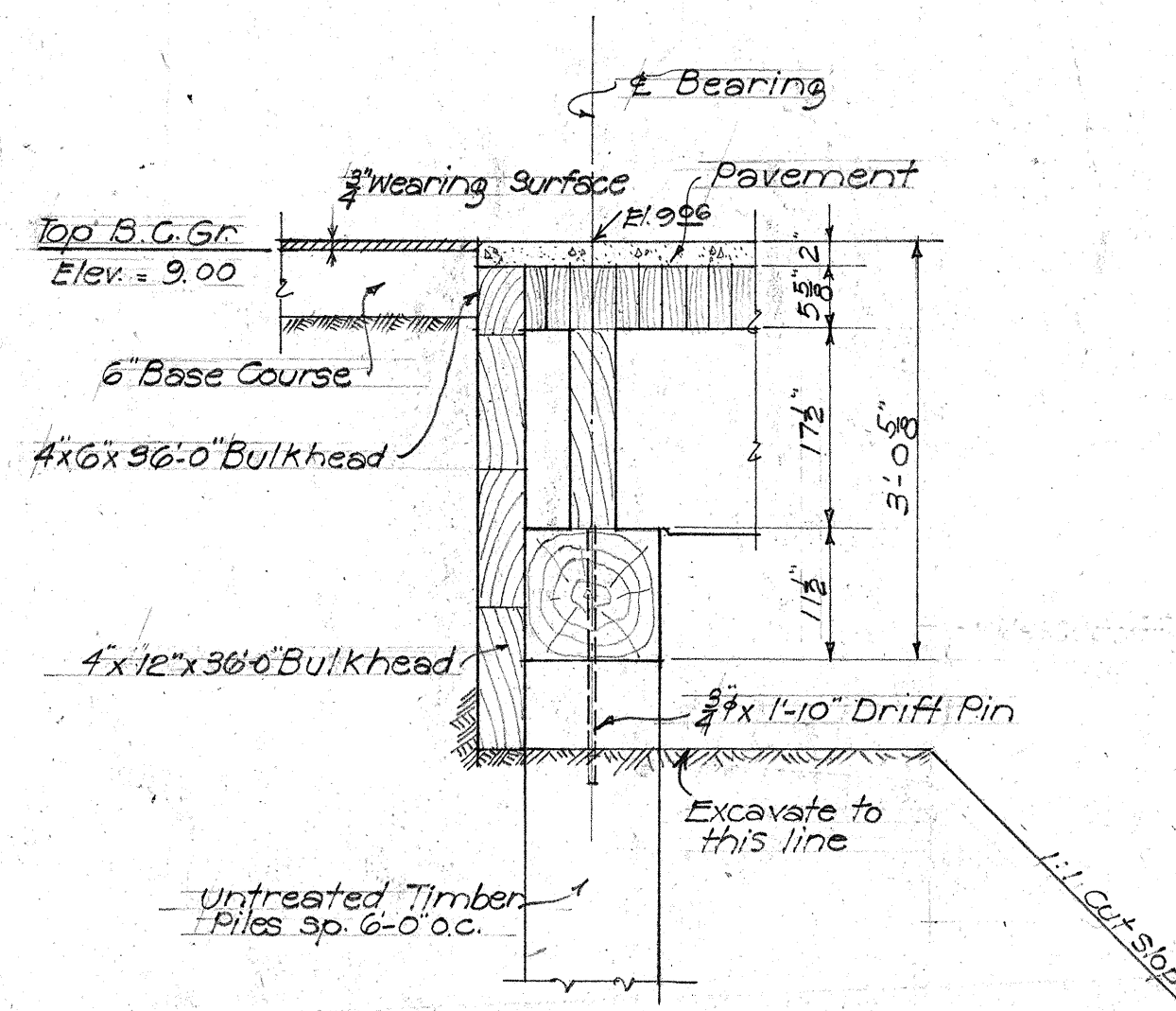
SURVEY PLOTTED BY	DATE
DESIGNED BY	
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	
NOTE BOOK	
No.	

BORING DATA Scale 1" = 10' (Vertical)



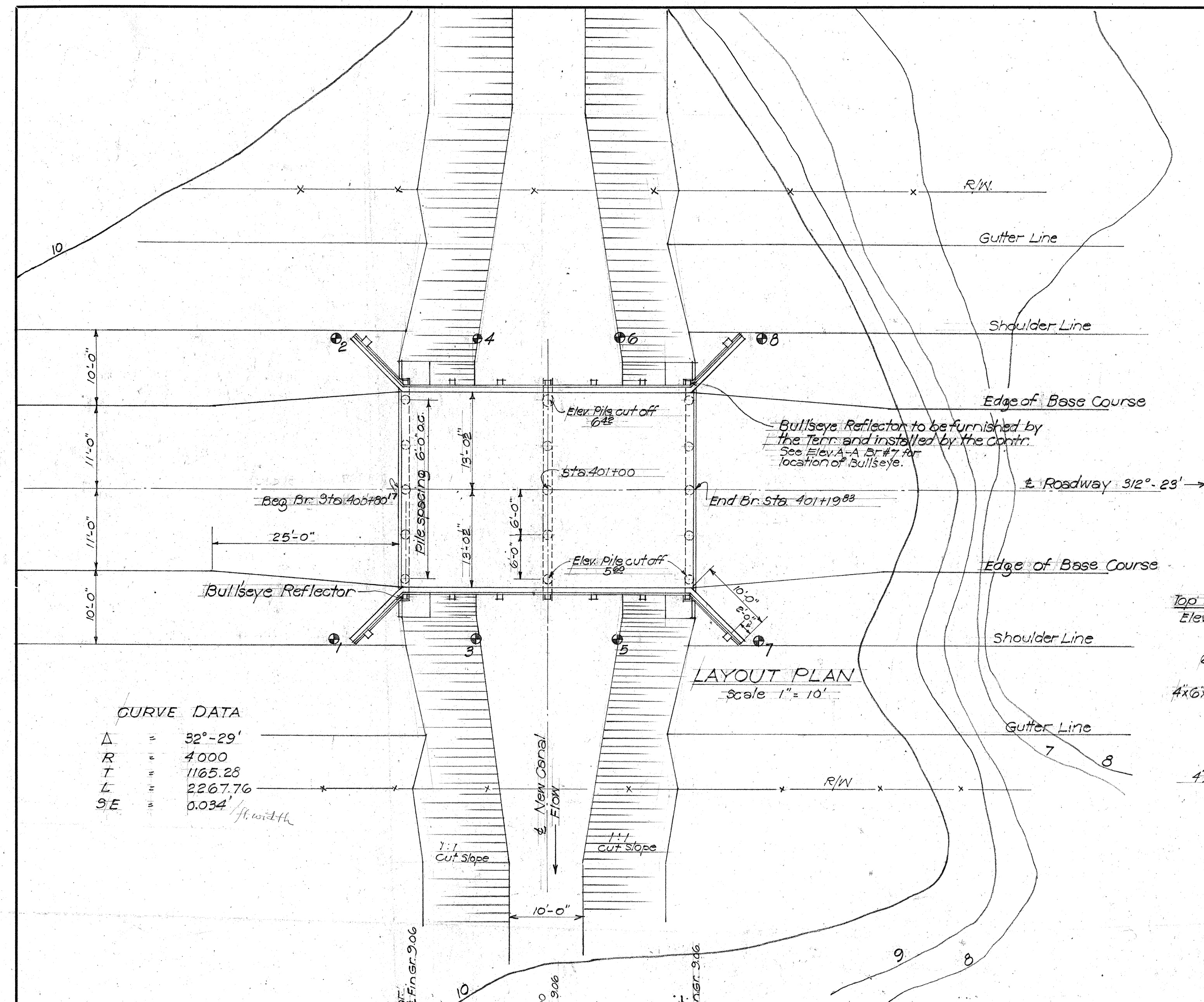
TIMBER BILL OF MATERIAL

MEMBER	NO REQD	SIZE & LENGTH	KIND OF LUMBER	MILLWORK	FT. B.M.
Cap	5	12"x12"x30'-0"	Select struct. Posts & Timbers	S/S	1080
Stringers	28	6"x18"x20'-0"	" " Beams & stringers	Rough ends sized to fit exact	5,040
Decking	288	2"x6"x28'-0"	" " Joist & Plank	S/S/E	8,064
Wheelguard (br.)	4	12"x14"x80'-0"	*1 Timbers, Posts & Timbers	S/E Beveled	1,120
" at Fire	4	12"x14"x10'-0"	" " " "	" "	560
Solid Bridging	2	4"x18"x22'-0"	*1 Dimension Joist & Plank	S/E	864
" "	1	4"x18"x14'-0"	" " " "	" "	84
Cross Bridging	4	2"x4"x14'-0"	" " " "	Rough	56
" "	4	2"x4"x16'-0"	" " " "	" "	48
Br. Rail Posts	14	8"x8"x6'-0"	Select struct. Posts & Timbers	S/S	448
" Bott. Rail	4	4"x8"x20'-0"	" " Joist & Plank	" "	213
" Top Rail	4	3"x8"x20'-0"	" " " "	" "	160
Rail filler Block	1	2"x8"x10'-0"	*1 Dimension " " "	Rough	13
" "	1	2"x8"x12'-0"	" " " "	" "	16
Splice Block	1	6"x18"x6'-0"	Select struct. Beams & stringers	S/E	54
Guard Rail (Top & Bot)	8	4"x8"x10'-0"	" " Joist & Plank	S/S	213
Guard Rail Posts	4	12"x12"x8'-0"	" " Posts & Timbers	" "	384
Bulkhead Plank	2	4"x6"x36'-0"	*1 Dimension Joist & Plank	Rough	144
" "	6	4"x12"x36'-0"	" " " "	" "	864
TOTAL					18,802



SECTION OF ABUT. AT BRIDGE Scale 1" = 10'-0"

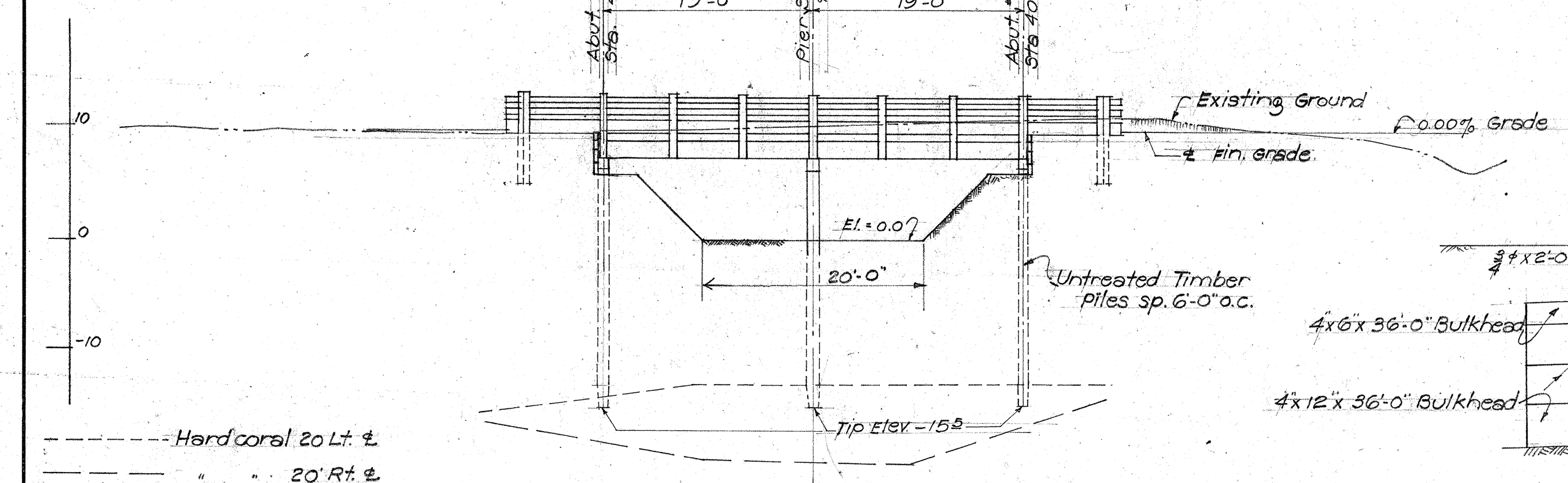
NOTE: Refer to std. Br. Details on Curves for details not shown on this sheet.



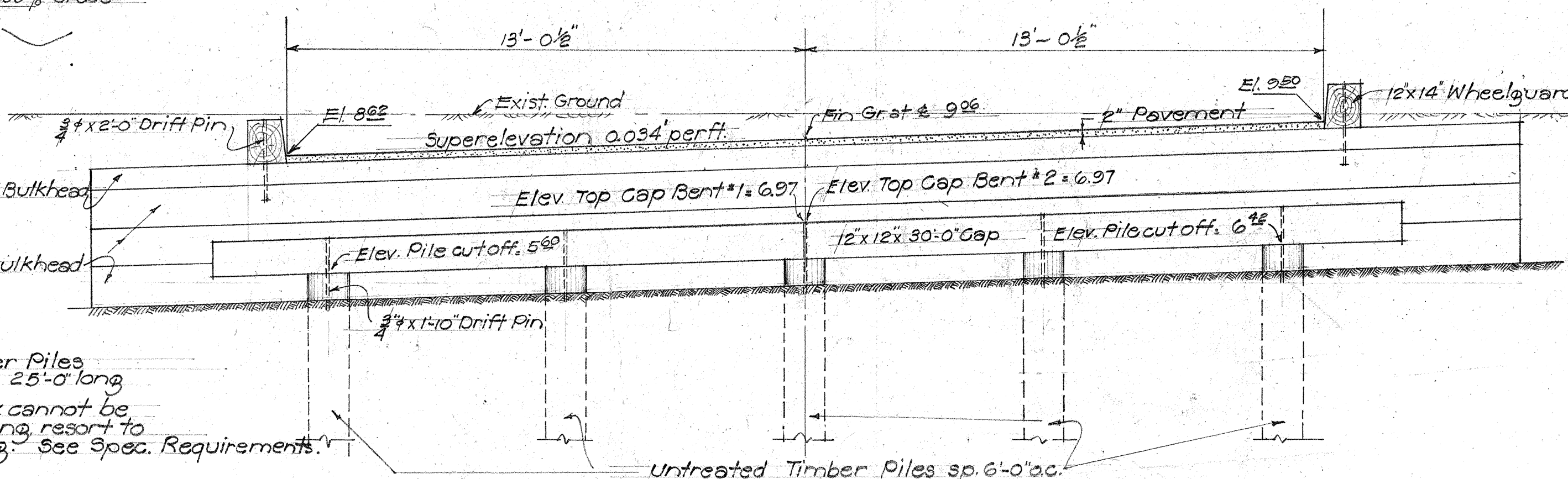
CURVE DATA

Δ = 32°-29'
R = 4000
T = 1165.28
L = 2267.76
SE = 0.034

DOWNSTREAM ELEVATION Scale 1" = 10'-0"



Untreated Timber Piles
Required 15 pc. 25'-0" long
Note: If Tip Elev. cannot be reached by driving, resort to jacking or driving. See Spec. Requirements.



ABUT. No. 1 (Looking against Stationing)
Scale 1" = 10'-0"
Note: Abut. No. 2 Similar

ITEM	QUANTITIES
Untreated Timber	18,802 FT. B.M.
Untreated Timber Piling	375 Lin. Ft.
Br. Exc.	30.0 C.Y.
Coarse Rock	12.2 C.Y.
Keystone	1.2 C.Y.
Screenings	0.6 C.Y.
chips	0.3 C.Y.
Bituminous Binder	10 Ton

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGE No. 5

Sta. 400+51 - 401+19

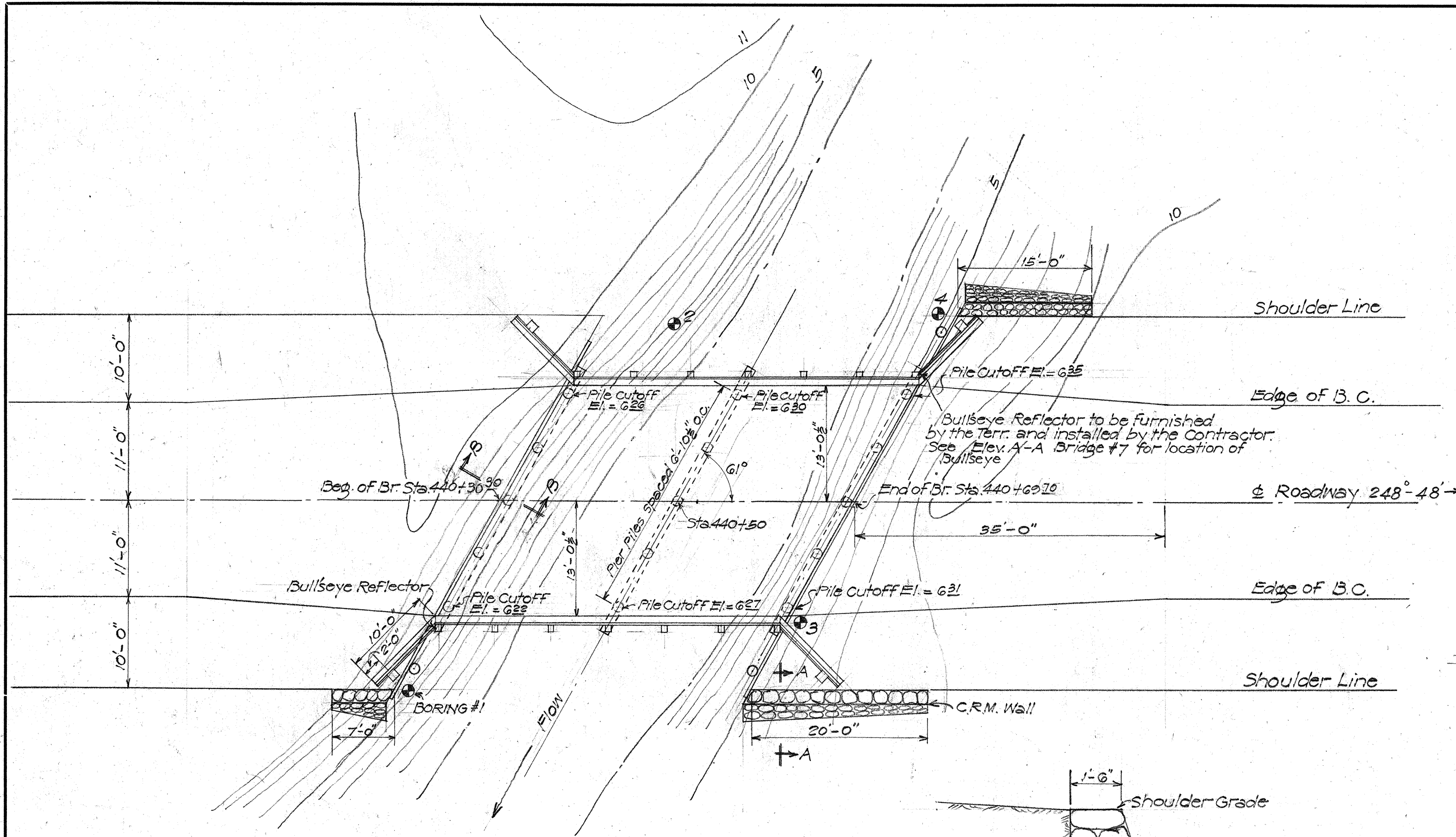
MANA-KEKAHA ACCESS RD. DAWR-1

Jan. 1943

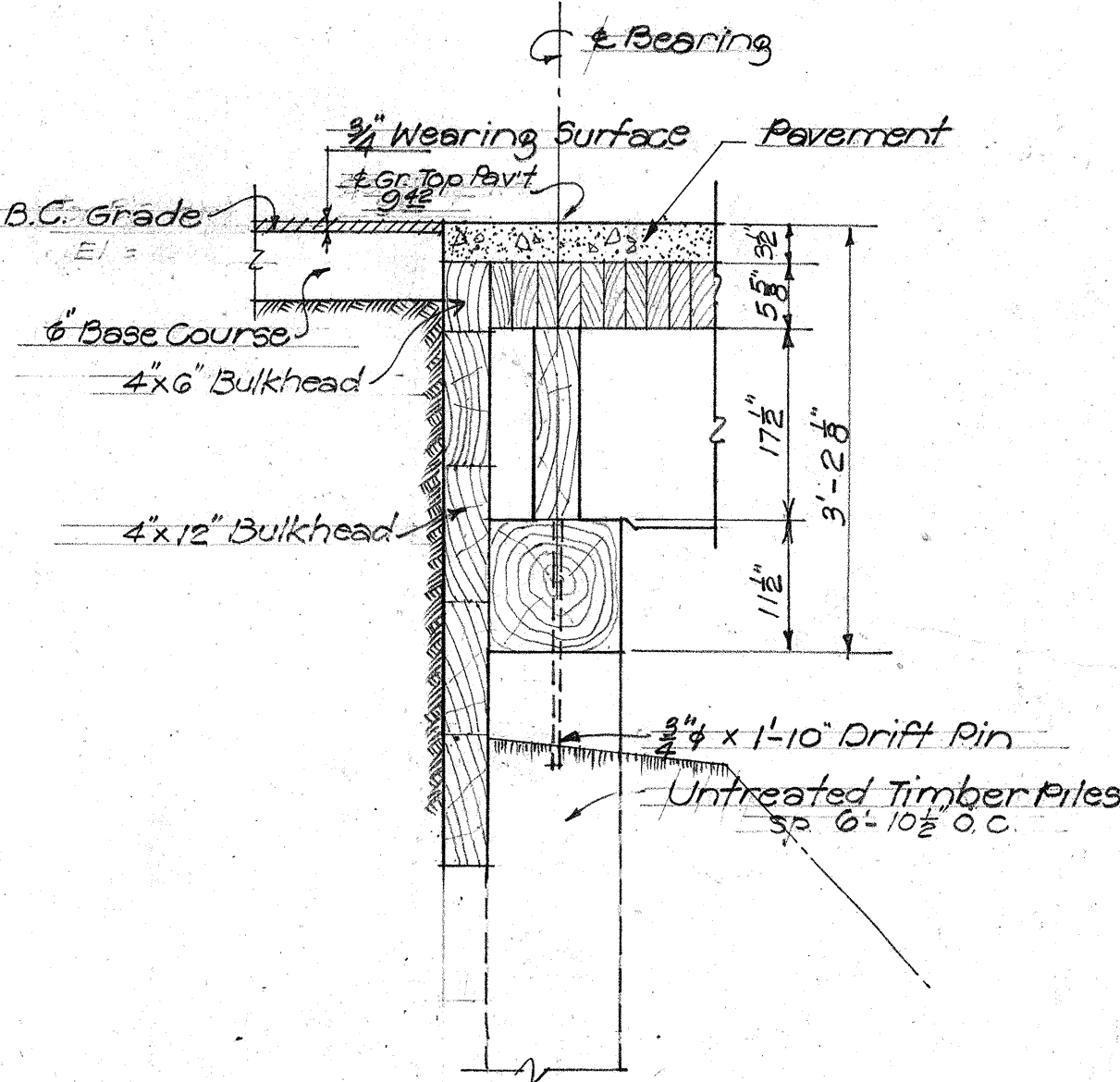
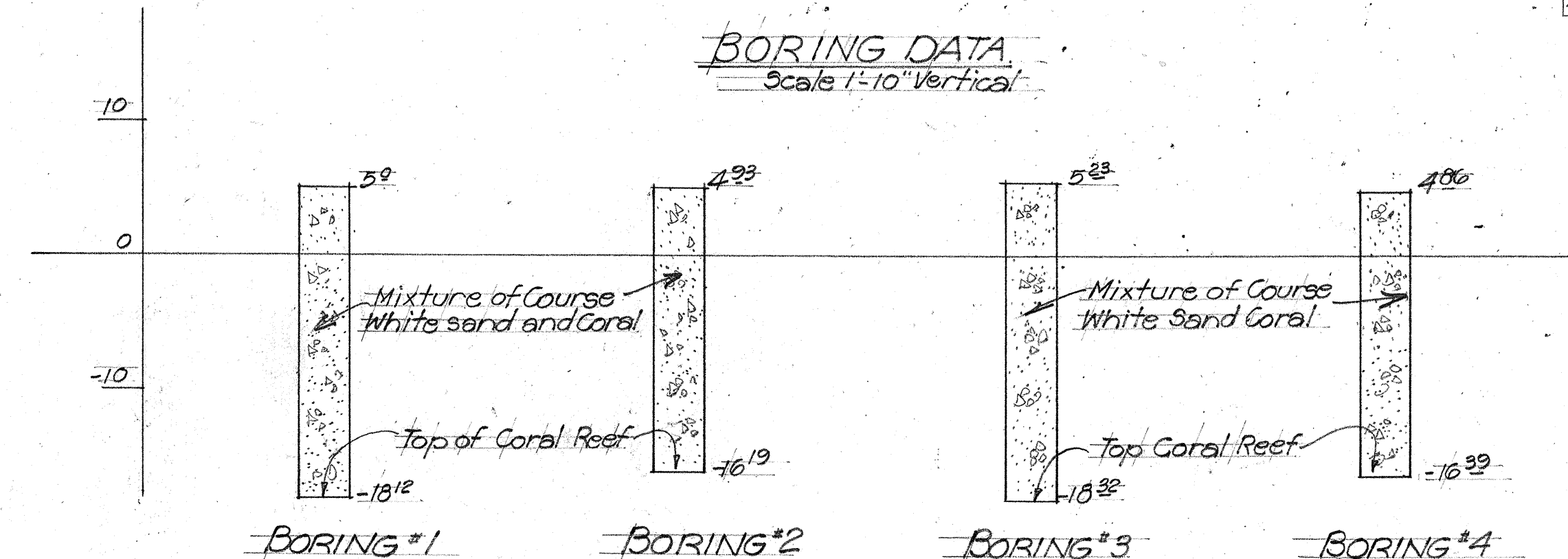
SHEET No. 1 OF 1 SHEETS

5100.27A 5100.36

ORIGINAL
DESIGNED BY
DRAWN BY
QUANTITIES BY
CHECKED BY
DATE
1/15/43
1/15/43
1/15/43
1/15/43
1/15/43



TYPICAL WALL SECTION A-A
Scale 1"=1'-0"

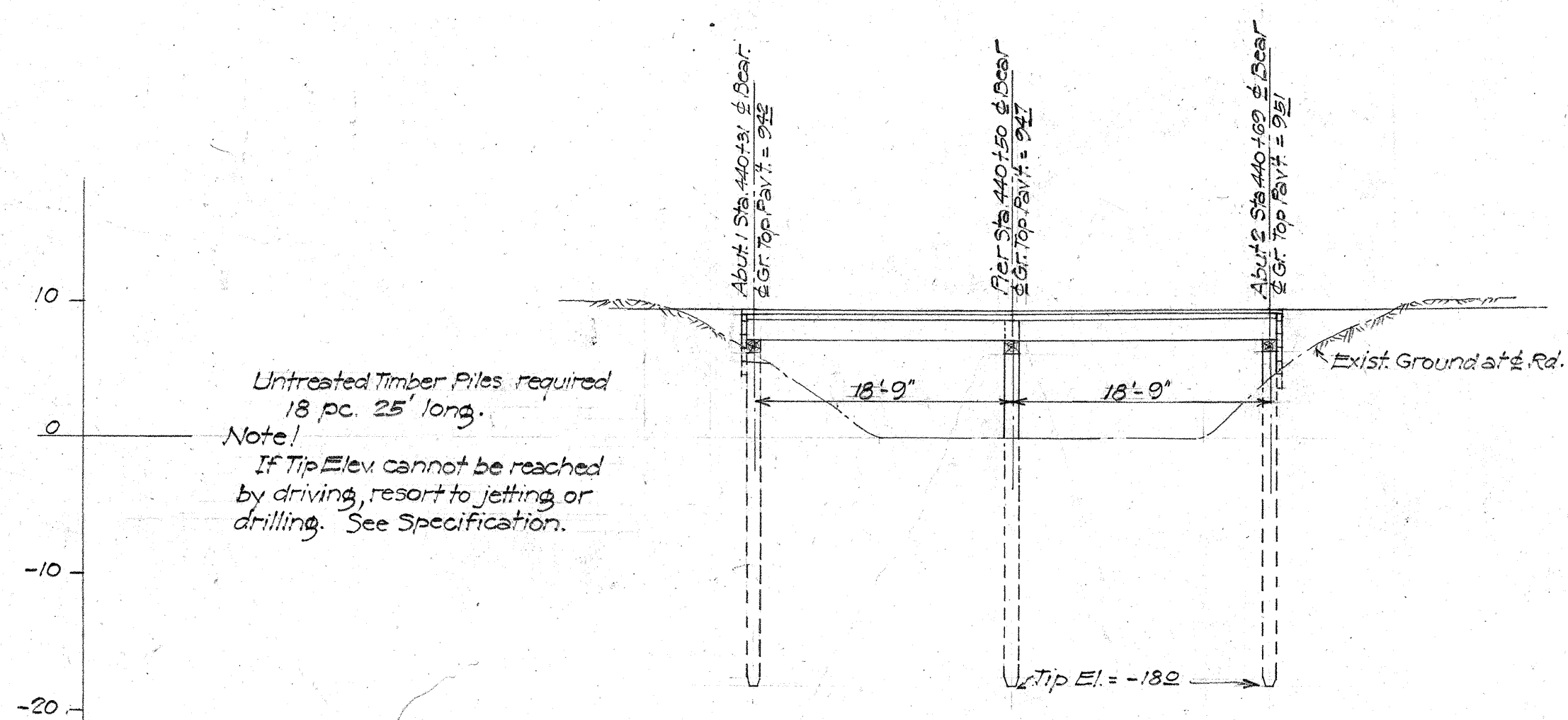


SECTION B-B
Scale 3/4"=1'-0"

TIMBER BILL OF MATERIAL					
DOUGLAS FIR COAST REGION					
MEMBER	No.	REQD SIZE & LENGTH	KIND OF LUMBER	MILLWORK	FT. B.M.
CSP	3	12"x12"x34'-0"	Select struct. Post & Timbers	SIS	1224
Stringers	28	6"x18"x20'-0"	" " Beams & Stringers	100% Exact	5040
Decking (Floor)	285	2"x6"x28'-0"	" " Joist Plank	SIS/E	7980
Wheelguard (br)	4	12"x14"x20'-0"	#1 Timbers, Post & Timbers	SIS/E Beveled	1120
" " of Flare	4	12"x14"x10'-0"	" " " " " "	" " "	560
Solid Bridging	1	4"x18"x16'-0"	#1 Dimension Joist Plank	SIS/E	96
" " "	2	6"x18"x22'-0"	" " " " " "	" " "	396
" " "	1	8"x18"x6'-0"	" " Beams & Stringers	" " "	72
Splice Block	1	6"x18"x6'-0"	Select struct. Beams & stringers	SIS/E	54
Br. Rail Posts	14	8"x8"x6'-0"	" " Post & Timbers	SIS	448
Br. Bolt Rail	4	4"x8"x20'-0"	" " Joist & Plank	" " "	213
Br. Top Rail	4	5"x8"x20'-0"	" " " " " "	" " "	180
Rail Filler Block	1	2"x8"x10'-0"	#1 Dimension " " "	Rough	13
" " "	1	2"x8"x12'-0"	" " " " " "	" " "	16
Guard Rail Posts	4	12"x12"x8'-0"	Select struct. Post & Timbers	SIS	584
Guard Rail (Top & Bot)	8	4"x8"x10'-0"	Select struct. Joist & Plank	" " "	214
Gross Bridging	4	2"x4"x16'-0"	No. 1 Dimension " " "	Rough	48
" " "	4	2"x4"x14'-0"	" " " " " "	" " "	38
Bulkhead Plank	1	4"x6"x20'-0"	" " " " " "	" " "	40
" " "	3	4"x6"x26'-0"	" " " " " "	" " "	156
" " "	4	4"x12"x20'-0"	" " " " " "	" " "	320
" " "	14	4"x12"x26'-0"	" " " " " "	" " "	1456
Total					20043

ESTIMATED QUANTITIES	
Item	Quantity
Untreated Timber	20,043 Ft. B.M.
Untreated Timber Piling	450 Lin. Ft.
Str. Exc.	26.0 C.Y.
C.R.M.	11.0 C.Y.
Coarse Rock	12.1 C.Y.
Keystone	1.1 C.Y.
Screenings	0.6 C.Y.
Chips	0.4 C.Y.
Bituminous Binder	1.0 Ton

SECTION ALONG & ROAD
Scale 1"=10'-0"



Untreated Timber Piles required
18 pc. 25' long.
Note:
If Tip Elev. cannot be reached
by driving, resort to jetting or
drilling. See Specification.

DATE: 3/2/43
DESIGNED BY: J. S. S. S.
DRAWN BY: J. S. S. S.
QUANTITIES BY: J. S. S. S.
CHECKED BY: J. S. S. S.
ORIGINAL PLAN
NOTE BOOK
No.

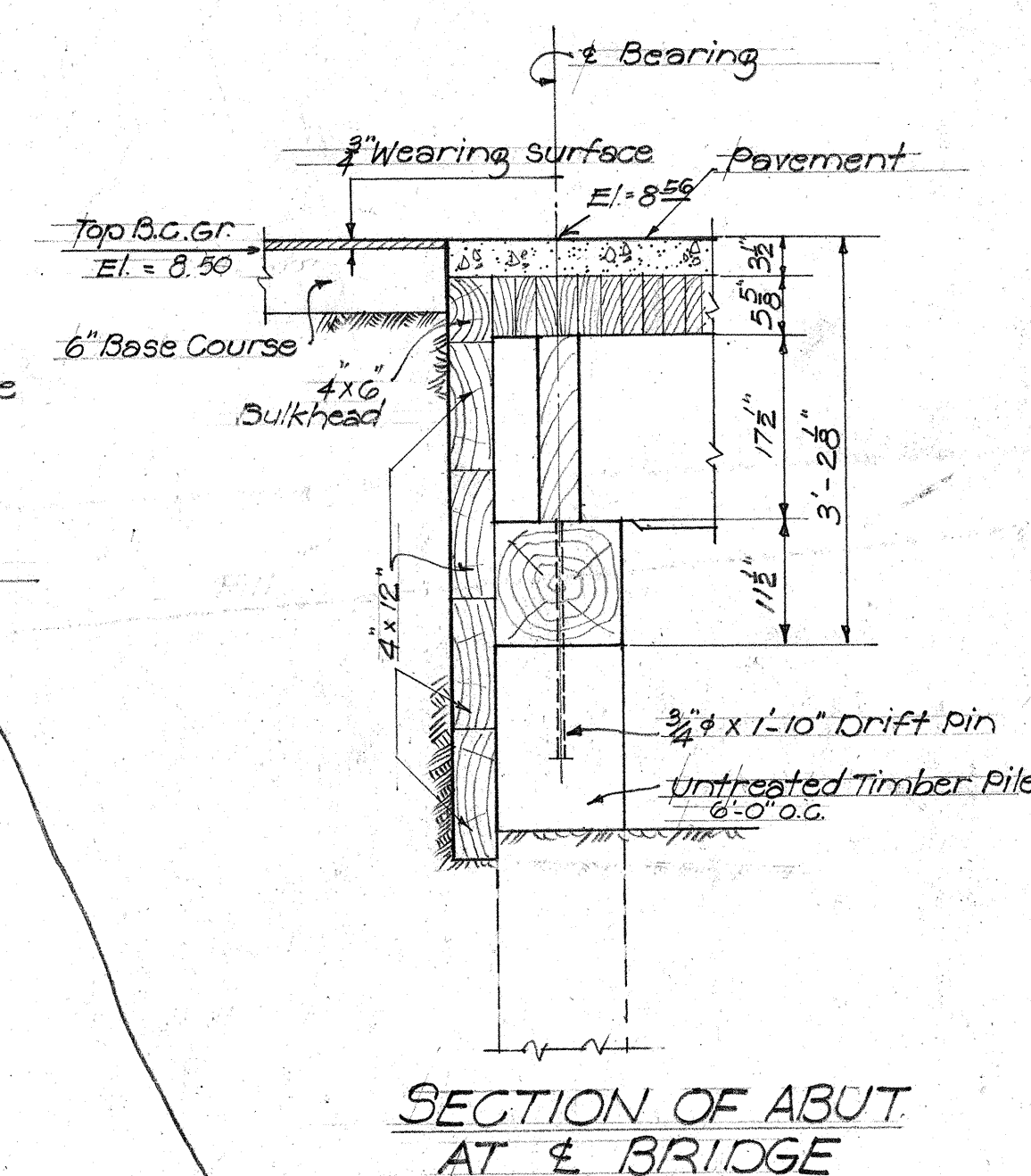
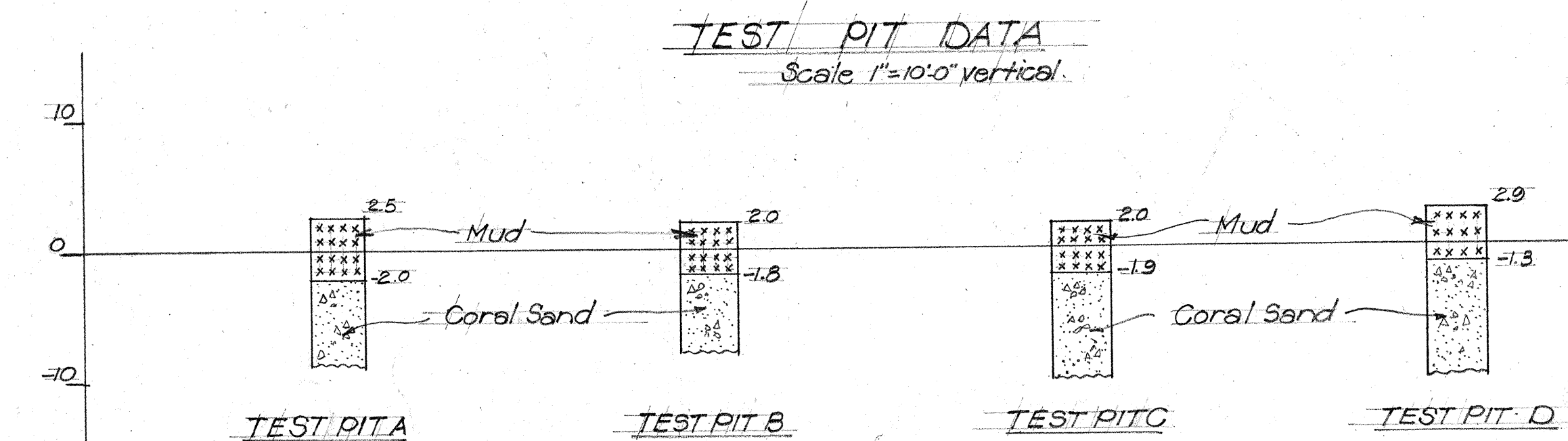
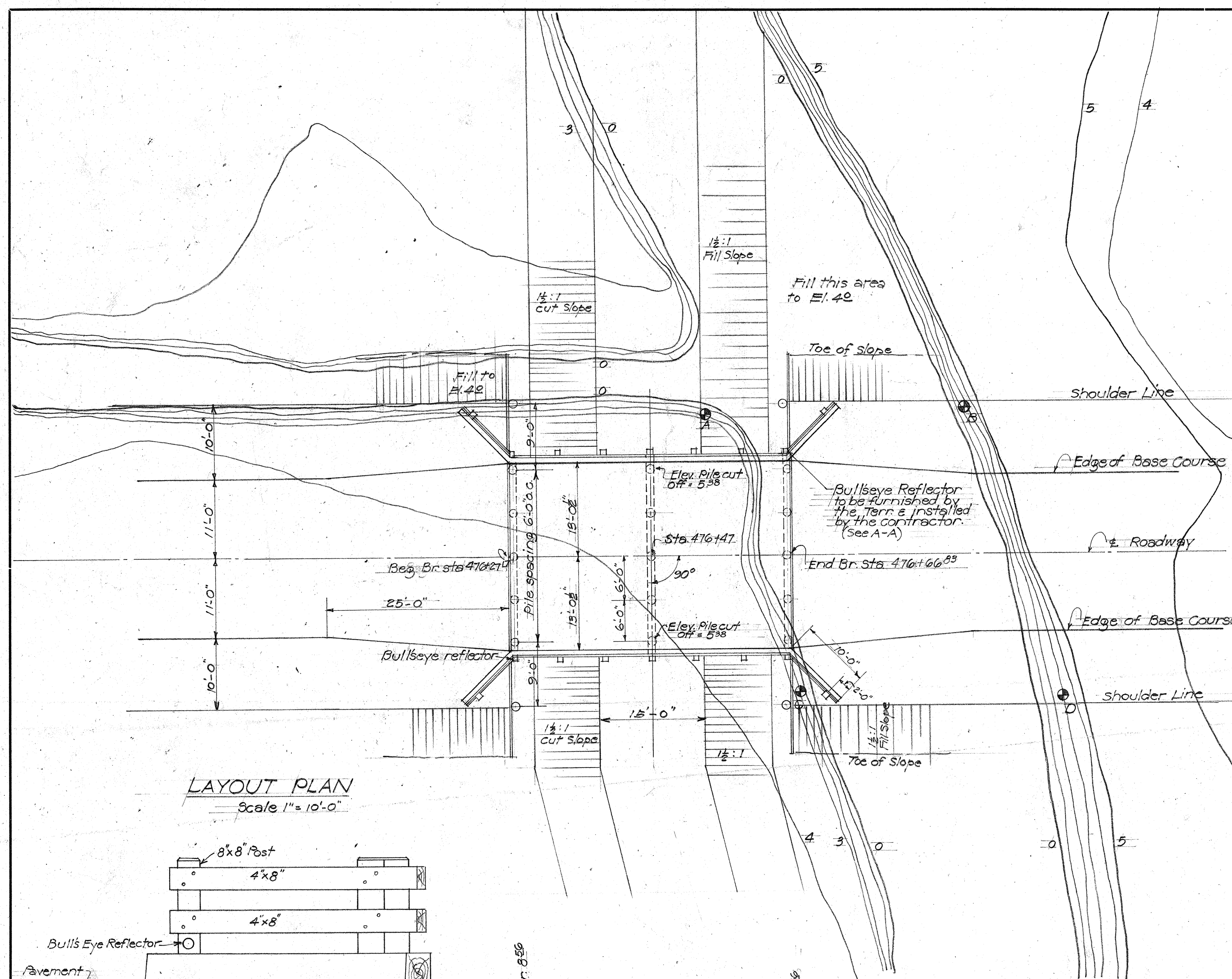
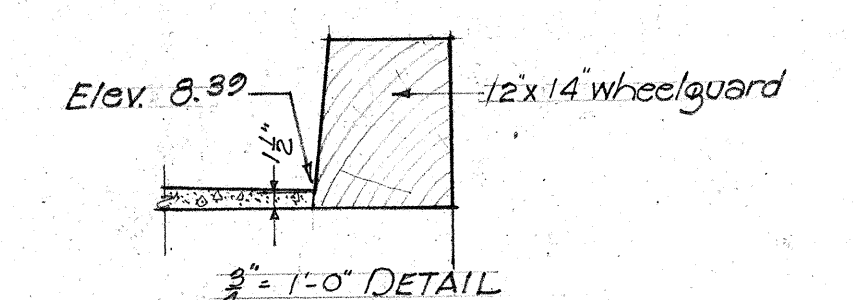
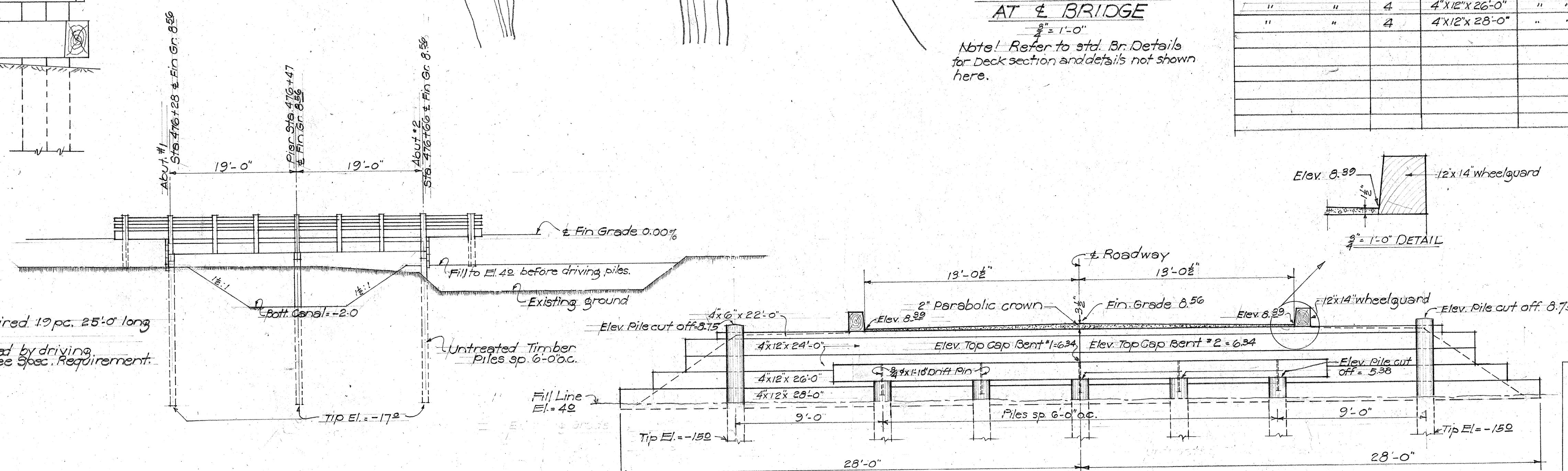
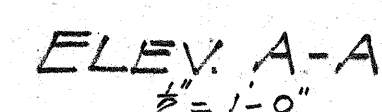
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGE No. 6
STA 440 +50

MANA-KEKAHA ACCESS RD.
Jan 1943
SHEET No 1 OF 2 SHEETS

Untreated

5100.28A 5100.35

[illegible]

ESTIMATED QUANTITIES	
untreated Timber	19,602 Ft.B.N
untreated Timber Piling	475 Lin. Ft.
bituminous Binder	1.0 Ton
coarse Rock	122 C.Y.
Keystone	12 C.Y.
Screenings	0.6 C.Y.
Chips	0.3 C.Y.
Str. Exc.	2.0 C.Y.

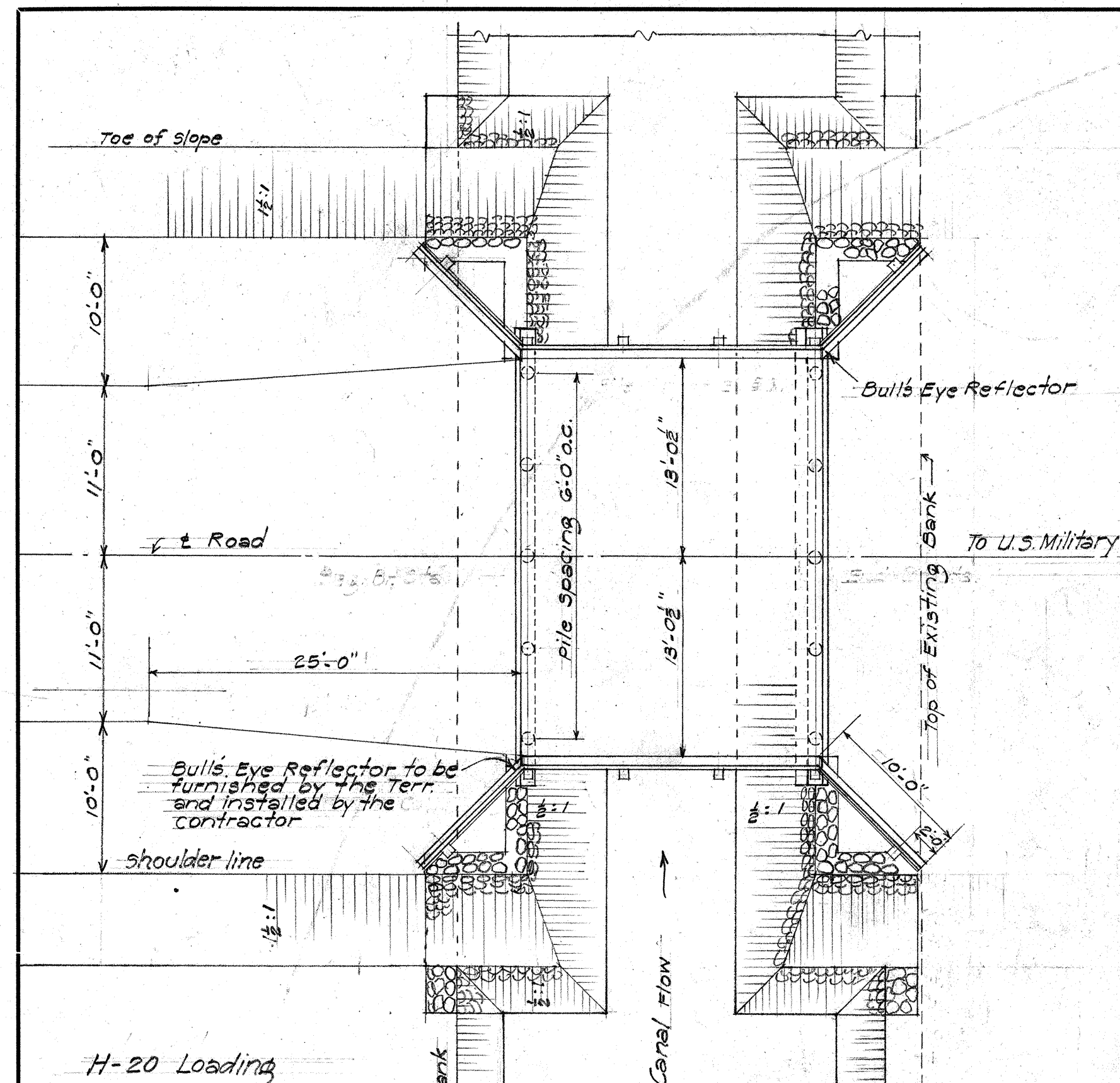
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGE NO 7
Sta. 476+27.17 - 476+668.82

MANA - KEKAHA ACCESS RD DAWIR-

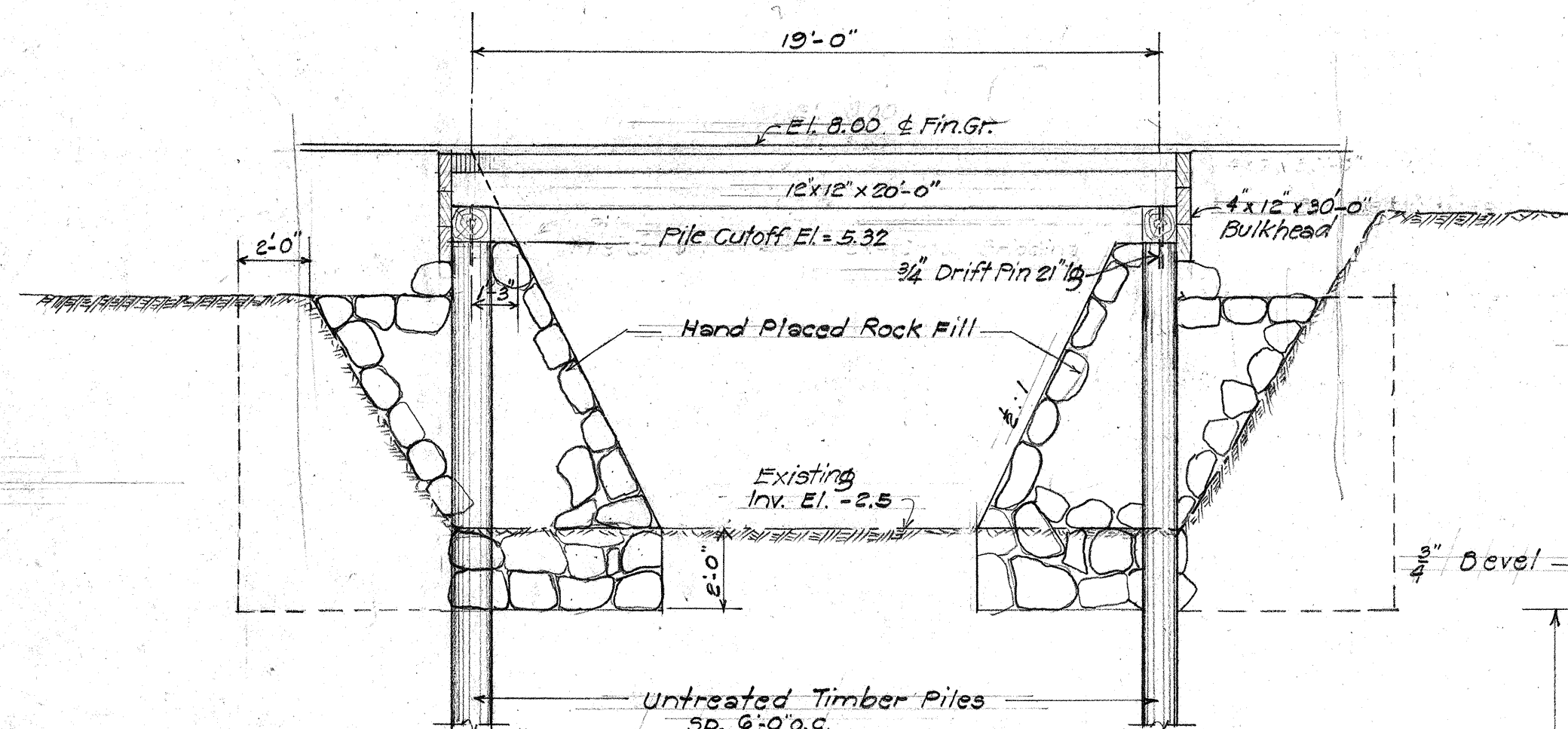
Jan. 1943

SHEET No / OF / SHEETS



LAYOUT PLAN
scale 1/4" = 1'-0"

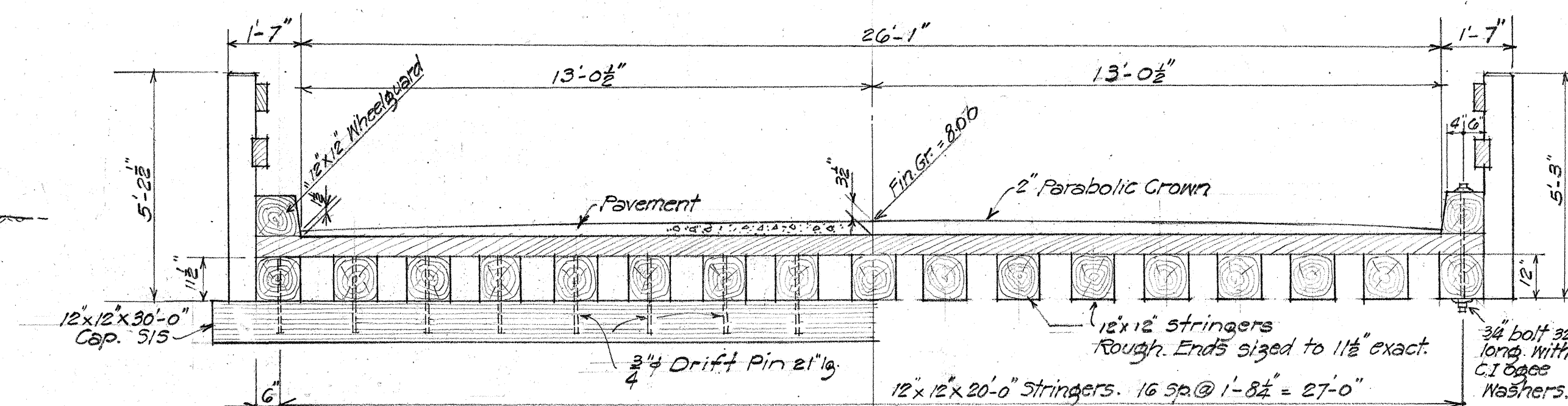
Locate Bridge at center of existing Canal.



SECTION ALONG E BRIDGE

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

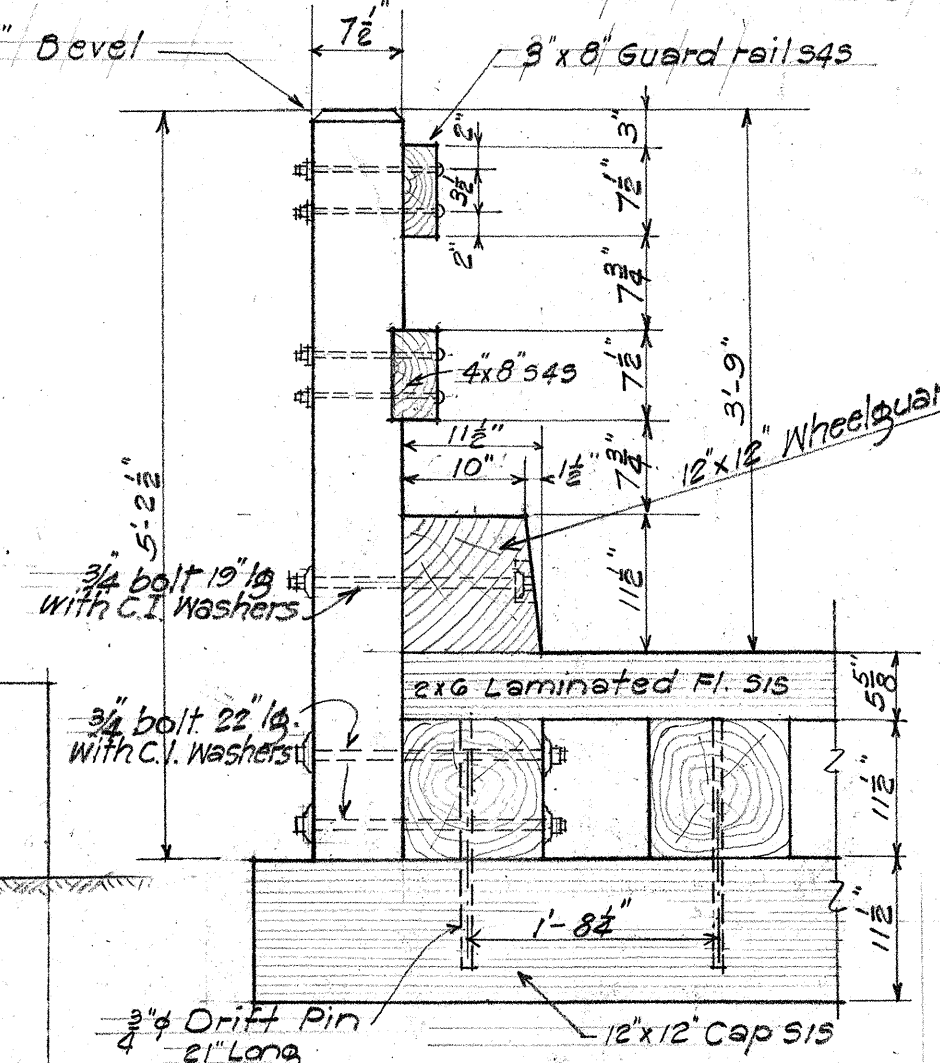
Note! For further Details see sheets N° 5100:26 & 5100:27



HALF SECTION AT BENT

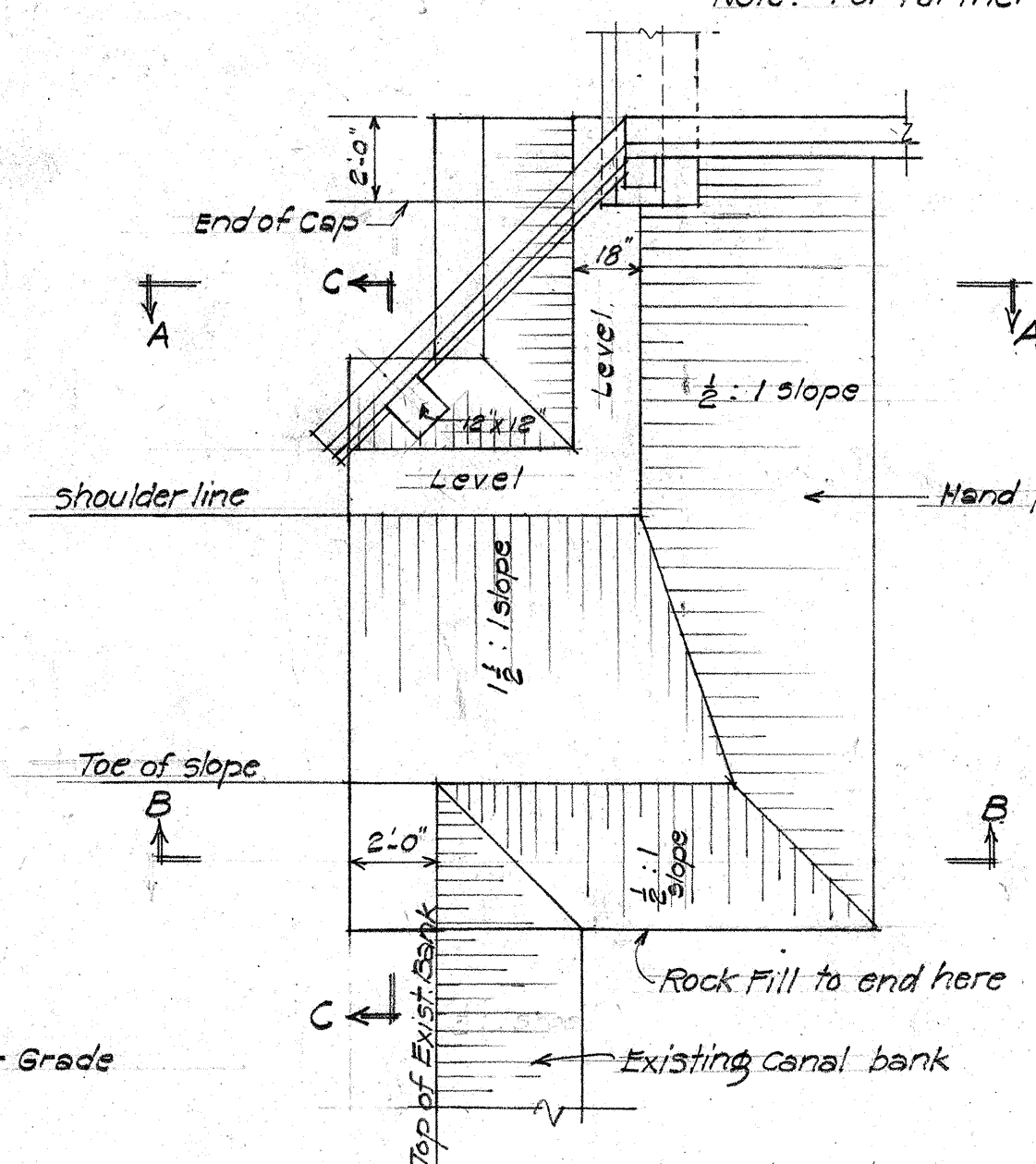
HALF SECTION AT CENTER
OF SPAN

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



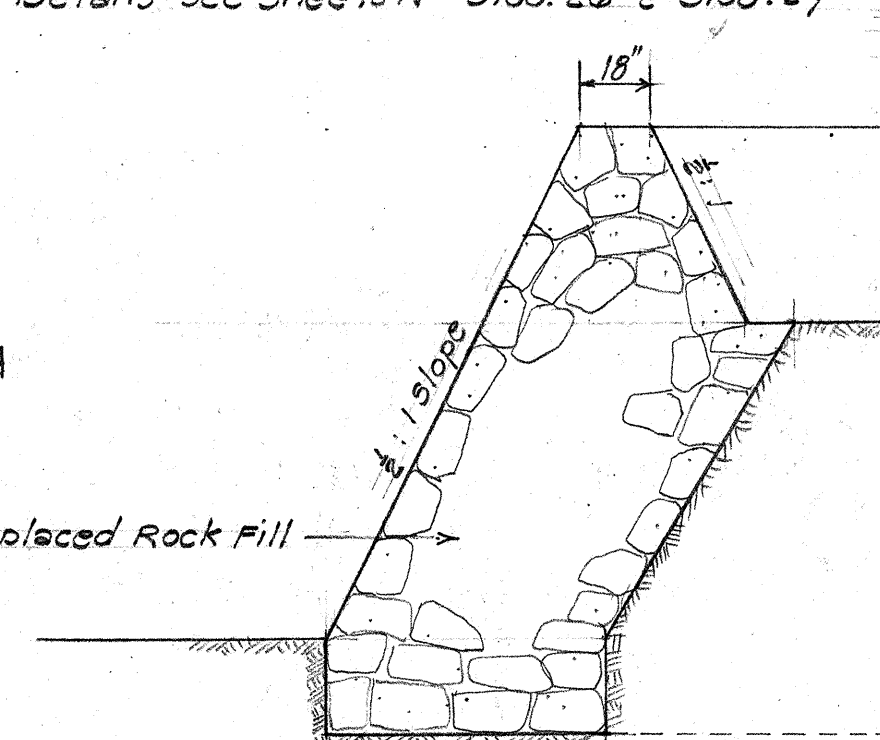
SECTION AT BENT

Scale $\frac{3}{4}" = 1'-0"$



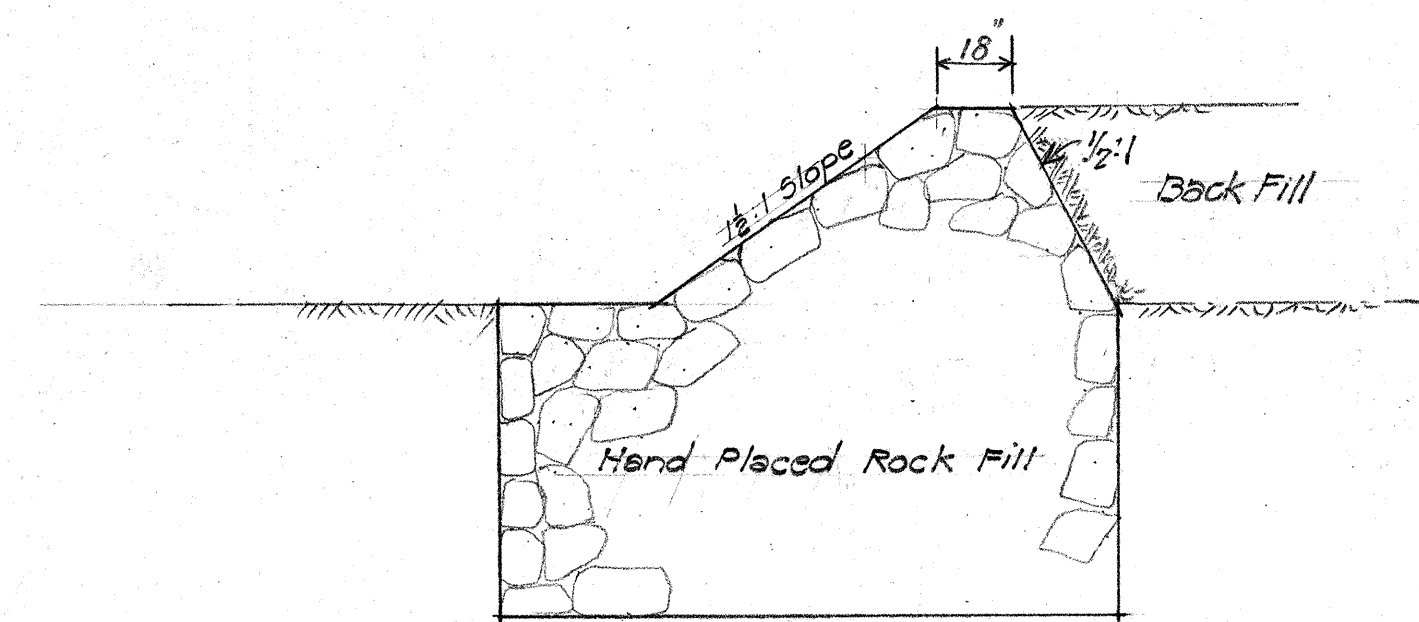
PLAN AT END OF BRIDGE

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



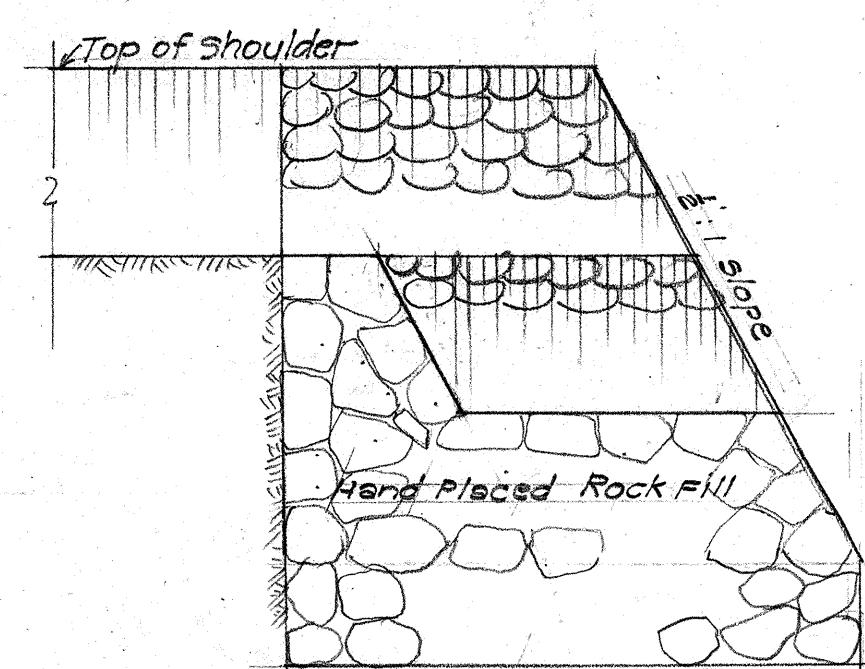
SECTION A-A

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



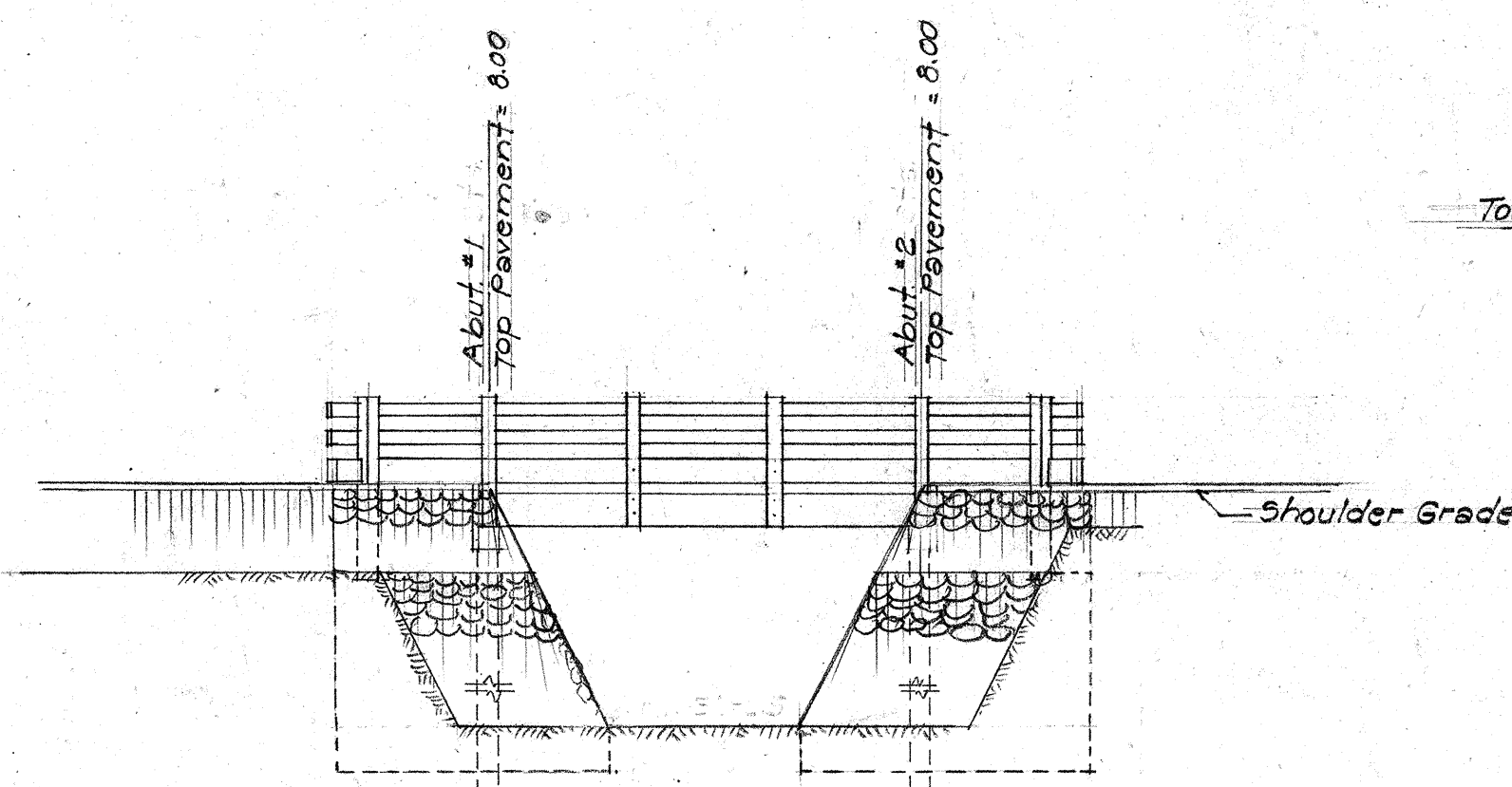
SECTION C.C

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



SECTION B-B

Scale $\frac{1}{4}'' = 1'-0''$



ELEVATION

Scale $\frac{1}{8}'' = 1'-0''$

Note! if Tip Elev. cannot be reached by driving, resort to jetting or drilling.
See Spec. requirement.

TIMBER BILL OF MATERIAL					
DOUGLAS FIR COAST REGION					
MEMBER	NO REQD	SIZE & LENGTH	KIND OF LUMBER	MILLWORK	FT. BM.
Cap	2	12 x 12 x 30'-0"	Select struct Posts Timbers	S/S	720
Stringers	17	12 x 12 x 20'-0"	" " Beams & stringers	Rough, grade good to 1/8" Exposed	4080
Wheelguard	2	12 x 12 x 20'-0"	Nº1 Timbers Posts & Timbers	S/E Beveled	480
Decking	148	2 x 6 x 28'-0"	Select struct Joist Plank	S/S/E	4144
Rail Posts	8	8 x 8 x 6'-0"	" " Post & Timbers		256
Br. Bolt Rail	2	4 x 8 x 20'-0"	" " Joist & Plank	"	107
" Top Rail	2	3 x 8 x 20'-0"	" " "	"	80
Wheelguard at Flare	4	12 x 12 x 10'-0"	Nº1 Timbers Post & Timbers	S/E Beveled	480
Guard Rail Tops Bolt	8	4 x 8 x 10'-0"	Select struct Joists Plank		213
Guard Rail Post	4	12 x 12 x 8'-0"	" " Post & Timbers		384
Bulkhead Plank	6	4 x 12 x 30'-0"	Nº1 Dimension Joists Plank	Rough	720
				TOTAL	11,664

ESTIMATED	QUANTITY
Item	Quantity
Untreated Timbers	11,664 Lbs. M.
Untreated Timber Piles	250 Lin Ft.
Structural Exc.	75 Cu. Yds.
Hand Placed Rock Fill	275 " "
A.C. Pavement	9.2 Tons

Not Constructed Yet.
June 28, 1944

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGE NO. 8
ON SPUR C

MANA-KEKAHA ACCESS RD.

DAWR I

Mar. 1943

SHEET No / OF / SHEETS

5100.39A