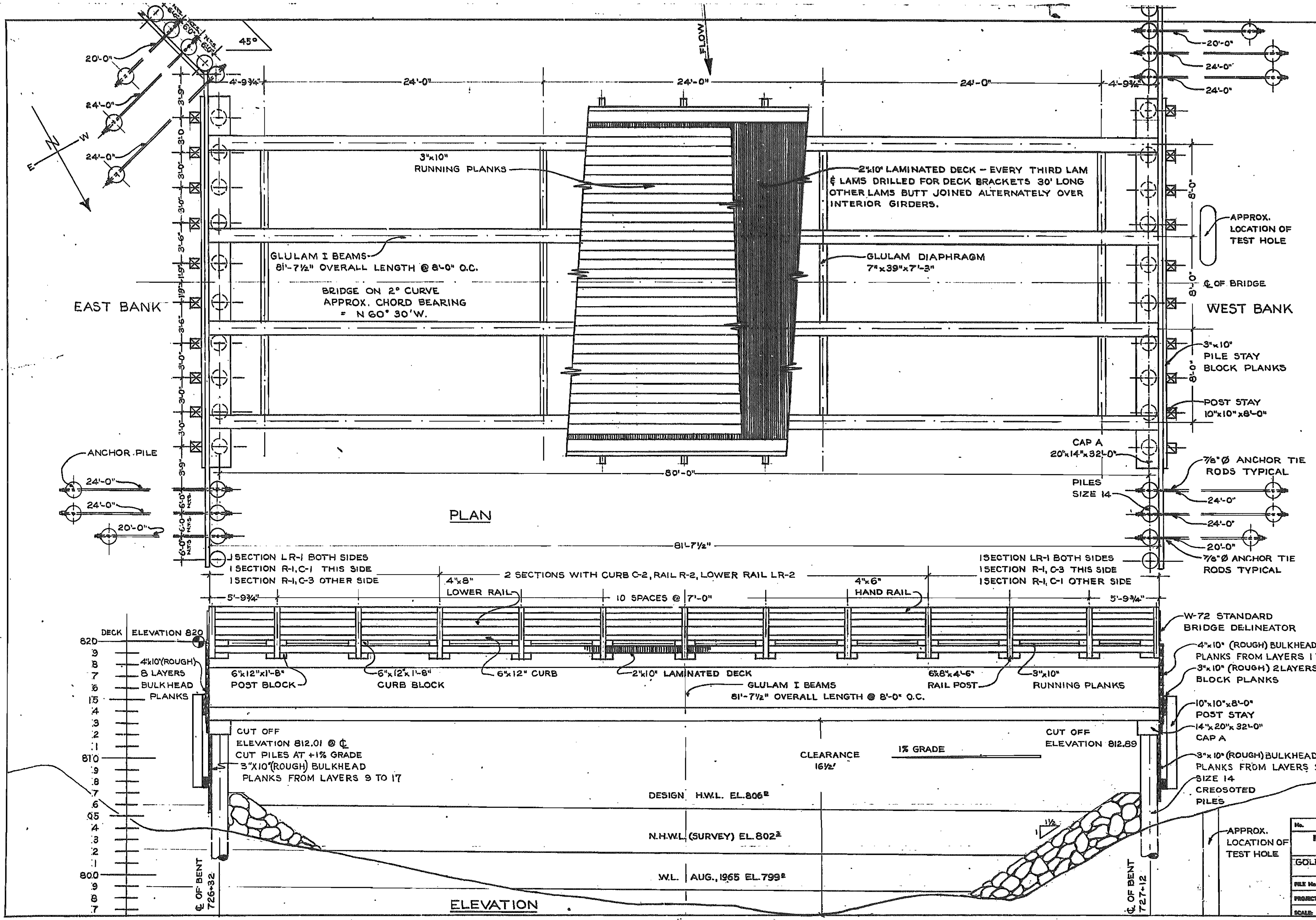
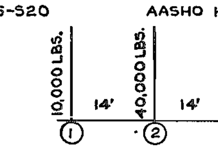


NOTES

1. A NEW PROFILE SHALL BE RUN AT THE TIME OF CONSTRUCTION AND LOCATION & ELEVATIONS CHECKED AGAINST THIS SURVEY. PARTICULAR NOTE WILL BE TAKEN OF THE RIVER BED TO GIRDER CLEARANCE.
2. ALL MEMBERS (EXCEPT RUNNING PLANKS) TO BE PRESSURE CREOSOTED.
3. PRESERVATIVE TREATMENT: HOT CREOSOTE
   ALL CUTS AND ABRASIONS: TWO COATS
   HOLES: USE PRESSURE GUN ON GIRDERS, BOTTLE BRUSH ELSEWHERE, TWO COATS.
   PILE CUT OFF: TWO COATS, COVER HEADS WITH SHIP FELT. SATURATE FELT WITH CREOSOTE THEN COVER WITH AN ALUMINUM CAP NAILED TO THE SIDE OF THE PILE WITH ROOFING NAILS.
   DRIFT PIPE HOLES: BOTTLE BRUSH TREATED BEFORE DRIVING OF DRIFT PIPES. AFTER DRIVING, FILL THE PIPE SEVERAL TIMES WITH CREOSOTE THEN PLUG TOP OF PIPE WITH ROOFING CEMENT.
4. SUBSTRUCTURE
   PILE BEARING CAPACITY MINIMUM 20 TONS.
5. BACKFILL MUST BE A FREE DRAINING GRAVEL COMPACTED IN HORIZONTAL LAYERS, 1' DEEP, FREE OF FROZEN LUMPS.
6. DESIGN LOAD
   H 25-S20 AASHO HIGHWAY LOAD (AXLE LOADS)



7. DATUM:
   BM 90 EL.812.24 94' RIGHT OF L 726+32
   BM 91 EL.800.16 70' RIGHT OF L 727+11
8. A SEPARATE UNTREATED PILE SHALL BE DRIVEN IN A LOCATION TO BE DETERMINED IN THE FIELD. A WATER GAUGE SHALL BE PLACED THEREON.
9. TEST HOLE LOG
   0'-10' SILTY SAND
   10'-15' SANDY GRAVEL

REFERENCE DRAWINGS

106P17-2-6 SUBSTRUCTURE DETAILS
106P17-3-6 SUPERSTRUCTURE DETAILS
106P17-4-6 GLULAM DETAILS
106P17-5-6 SAWN TIMBERS DETAILS
106P17-6-6 STEEL DETAILS
IV-15-6 SITE PLAN

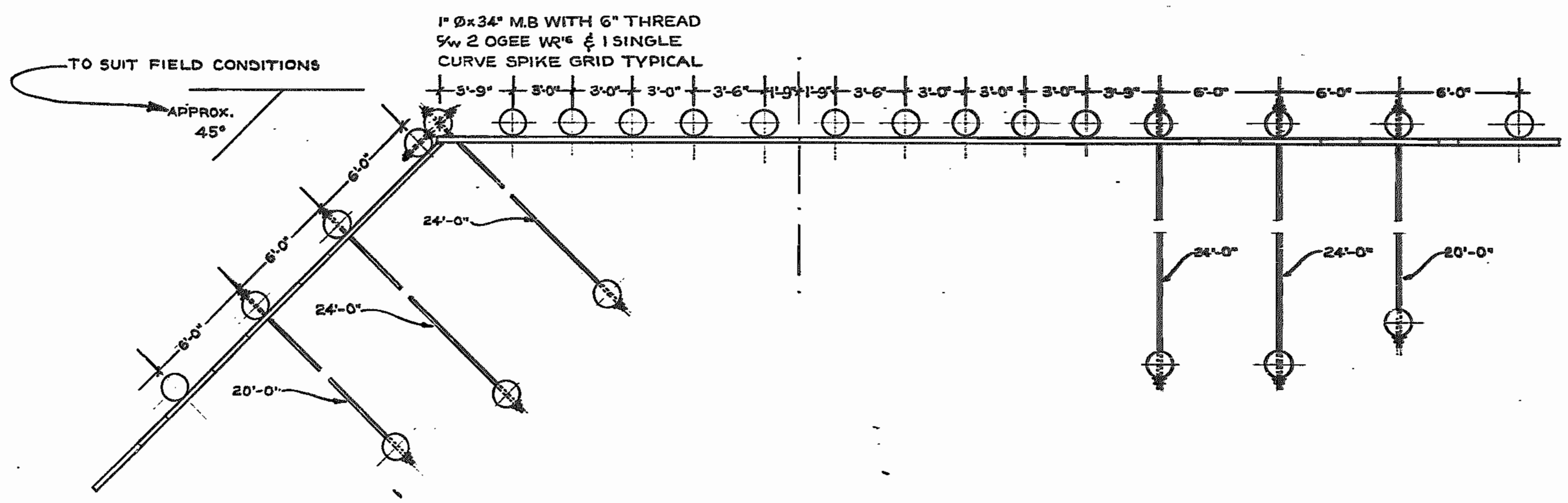
No.	REVISION, ETC.	DATE	FILE	PROJECT

Province of British Columbia — Department of Lands, Forests, and Water Resources
Forest Service, Victoria, B.C. — Engineering Services Division

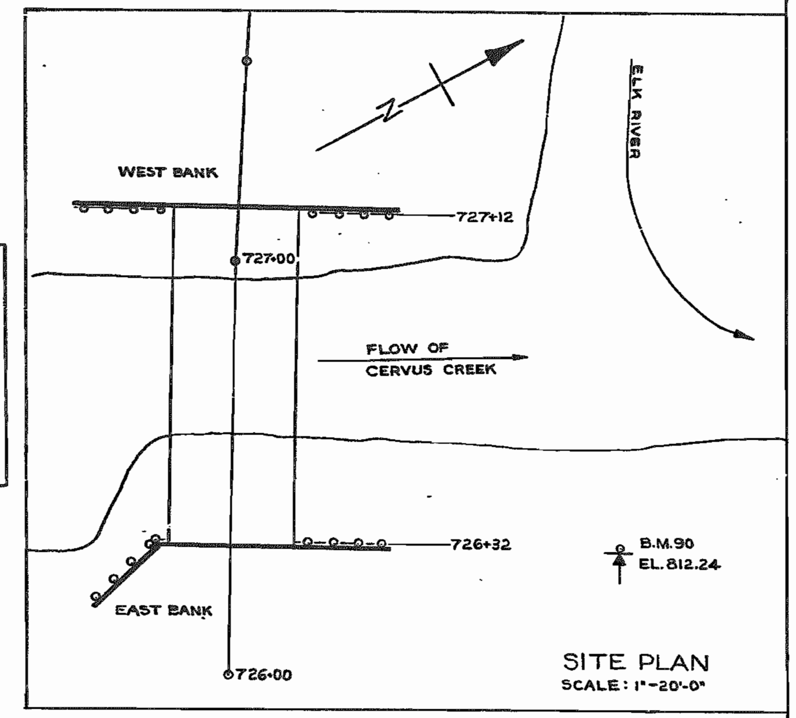
GOLD RIVER F.R. MI. 13.8 CERVUS CREEK BRIDGE
GENERAL LAYOUT

FILE No.: 0262137	DRAWN BY: [illegible]	CHECKED R.H.J.	DESIGNED [illegible]	DRAWING No. 106P17-1-6
PROJECT: 6967	APPROVED: R Scarisbrick			
SCALE: 1/4"–1'-0"	APPROVED:		CHIEF ENGINEER	DATE: OCTOBER 19[illegible] SIZE: C

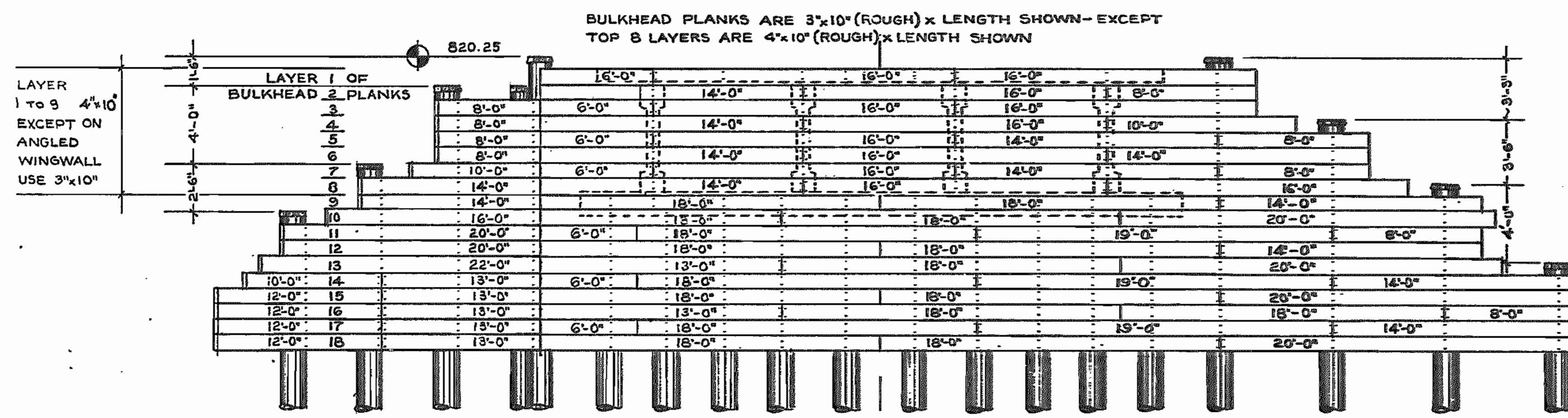
35531



NOTE
LOCATE THE BRIDGE TO PROVIDE A SMOOTH TRANSITION FROM THE STRAIGHT STRETCH OF CHANNEL UPSTREAM TO THE ELK RIVER.
THE SCOUR HOLE UPSTREAM ON THE EAST BANK SHALL BE FILLED AND BOTH BANKS PROTECTED AGAINST SCOUR WITH RIP-RAP AS REQUIRED.



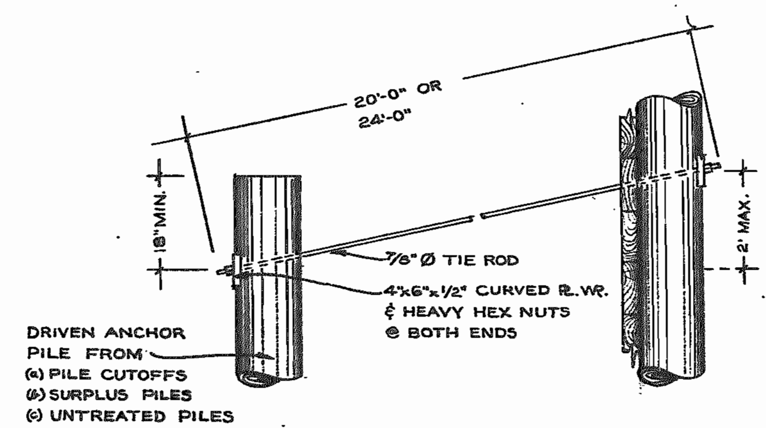
SITE PLAN
SCALE: 1"=20'-0"



BULKHEAD WITH ANGLED WINGWALL | BULKHEAD WITH STRAIGHT WINGWALL

BULKHEAD WITH TWO STRAIGHT WINGWALLS

LAYER	LENGTH IN FEET				
1			8	16	16
2			16	16	8
3			8	16	16
4			18	16	10
5		14	16	14	8
6		8	14	16	14
7		14	16	14	8
8		10	14	16	16
9		14	18	18	14
10		8	18	18	20
11		20	18	19	8
12		14	18	18	14
13		10	19	18	20
14	8	18	18	19	14
15		20	18	18	20
16	14	19	18	18	8
17	8	18	18	19	14
18		20	18	18	20



ANCHOR DETAIL

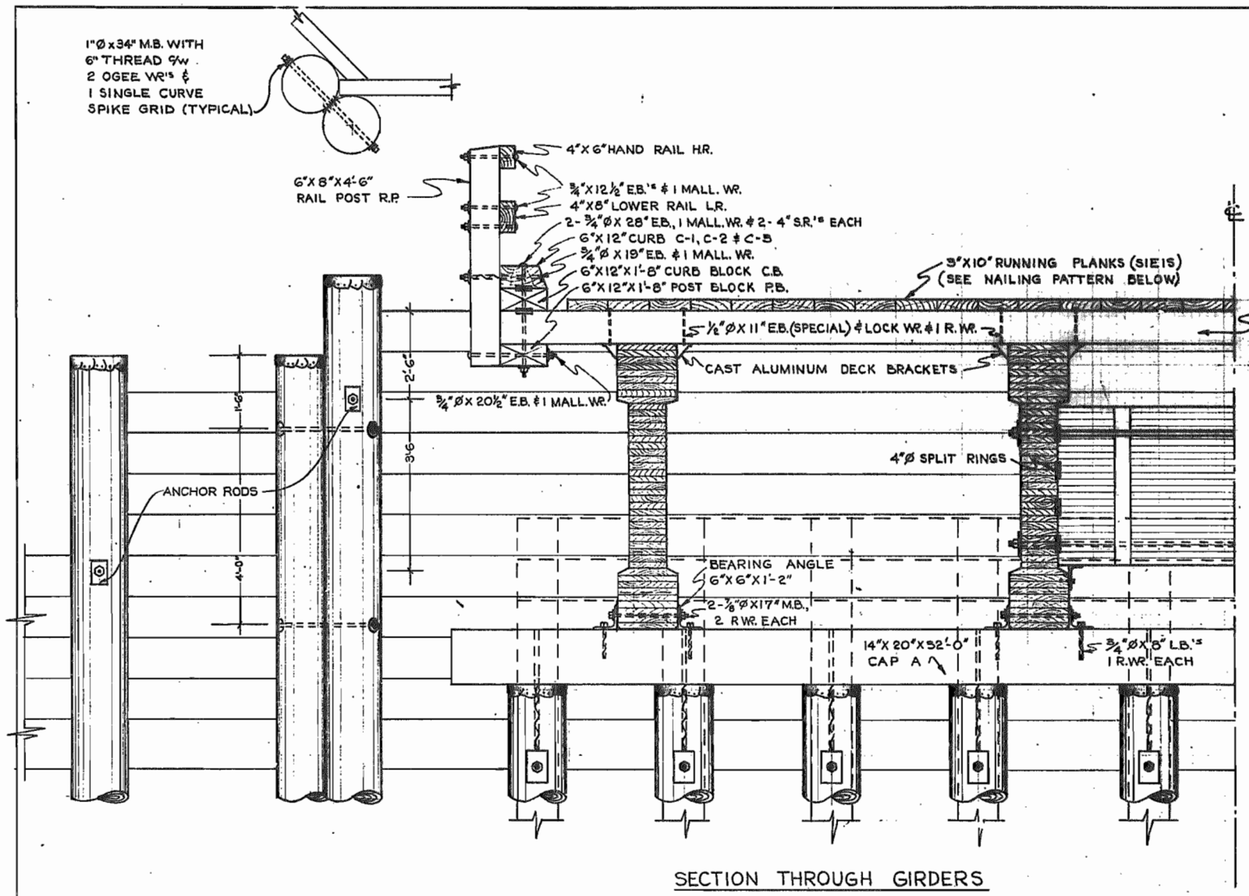
No.	REVISION, ETC.	DATE	FILE	PROJECT

Province of British Columbia — Department of Lands, Forests, and Water Resources
Forest Service, Victoria, B.C. — Engineering Services Division

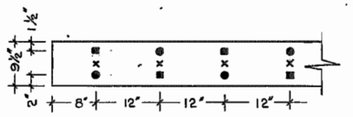
GOLD RIVER FR. MI.13.8
SUBSTRUCTURE DETAILS
CERVUS CREEK BRIDGE

FILE No.: 0262137	DRAWN BY: M. Strode	CHECKED R.H.F.	DESIGNED HR	DRAWING No. 106P17-2-6
PROJECT: 6967	APPROVED: R Scarisbrick			
SCALE: NOT TO SCALE	APPROVED:			DATE: OCTOBER 1965 SIZE: C

25532

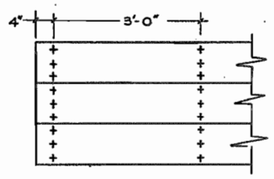


SECTION THROUGH GIRDERS



NAILING PATTERN FOR DECK LAMINATIONS

LAMINATIONS TO BE NAILED @ 12" O.C. WITH 5 1/2" COMMON NAILS
■ INDICATES NAILING OF 1ST, 4TH, 7TH, ETC. LAMINATIONS
● " " " 2ND, 5TH, 8TH, " " .
x " " " 3RD, 6TH, 9TH " "



RUNNING PLANK NAILING PATTERN

USE 6" ARDOX NAILS


LEFT


RIGHT

ELEVATION AT BULKHEAD

LEGEND OF ABBREVIATIONS & SYMBOLS

Ø	DIAMETER
E.B.	ECONOMY BOLT
M.B.	MACHINE BOLT
L.B.	LAG BOLT
MALL. WR.	MALLEABLE IRON WASHER
R.WR.	ROUND WASHER
S.R.	SPLIT RING
R.WR.	PLATE WASHER
SIE1S	SURFACED 1 EDGE 1 SIDE
═══	FIELD DRILLED HOLE
O.C.	ON CENTRE

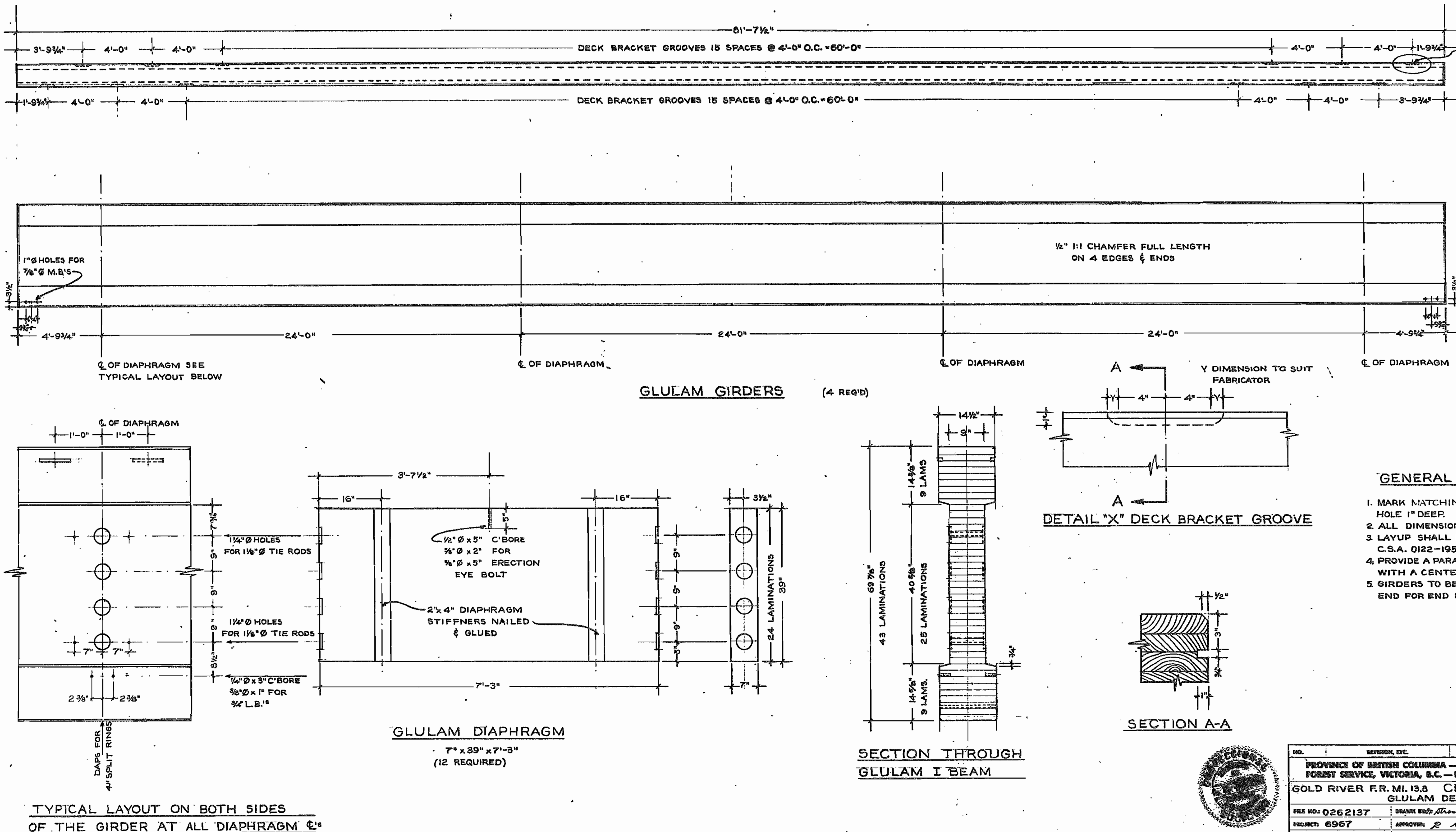
NO.	REVISION, ETC.	DATE	FILE	PROJECT

PROVINCE OF BRITISH COLUMBIA — DEPARTMENT OF LANDS AND FORESTS
FOREST SERVICE, VICTORIA, B.C. — ENGINEERING SERVICES DIVISION

GOLD RIVER F.R. MI. 13.8 CERVUS CR. BRIDGE
SUPERSTRUCTURE DETAILS

FILE NO.: 0262137	DRAWN BY:	CHECKED	DESIGNED
PROJECT: 6967	APPROVED:		DRAWING NO. 106 P17-3-6
SCALE: NOT TO SCALE	APPROVED: Comm Engineer		DATE: SEPT. 1965 SIZE: C

35533



GENERAL NOTES

1. MARK MATCHING ENDS OF GIRDERS WITH 1"Ø HOLE 1" DEEP.
2. ALL DIMENSIONS FOR HOLES ARE TYPICAL.
3. LAYUP SHALL BE IN ACCORDANCE WITH C.S.A. 0122–1959 STRESS GRADE 24 F.
4. PROVIDE A PARABOLIC CAMBER ON GIRDERS WITH A CENTER ORDINATE OF 2½"
5. GIRDERS TO BE INTERCHANGEABLE END FOR END & IN POSITION.

NO.	REVISION, ETC.	DATE	FILE	PROJECT

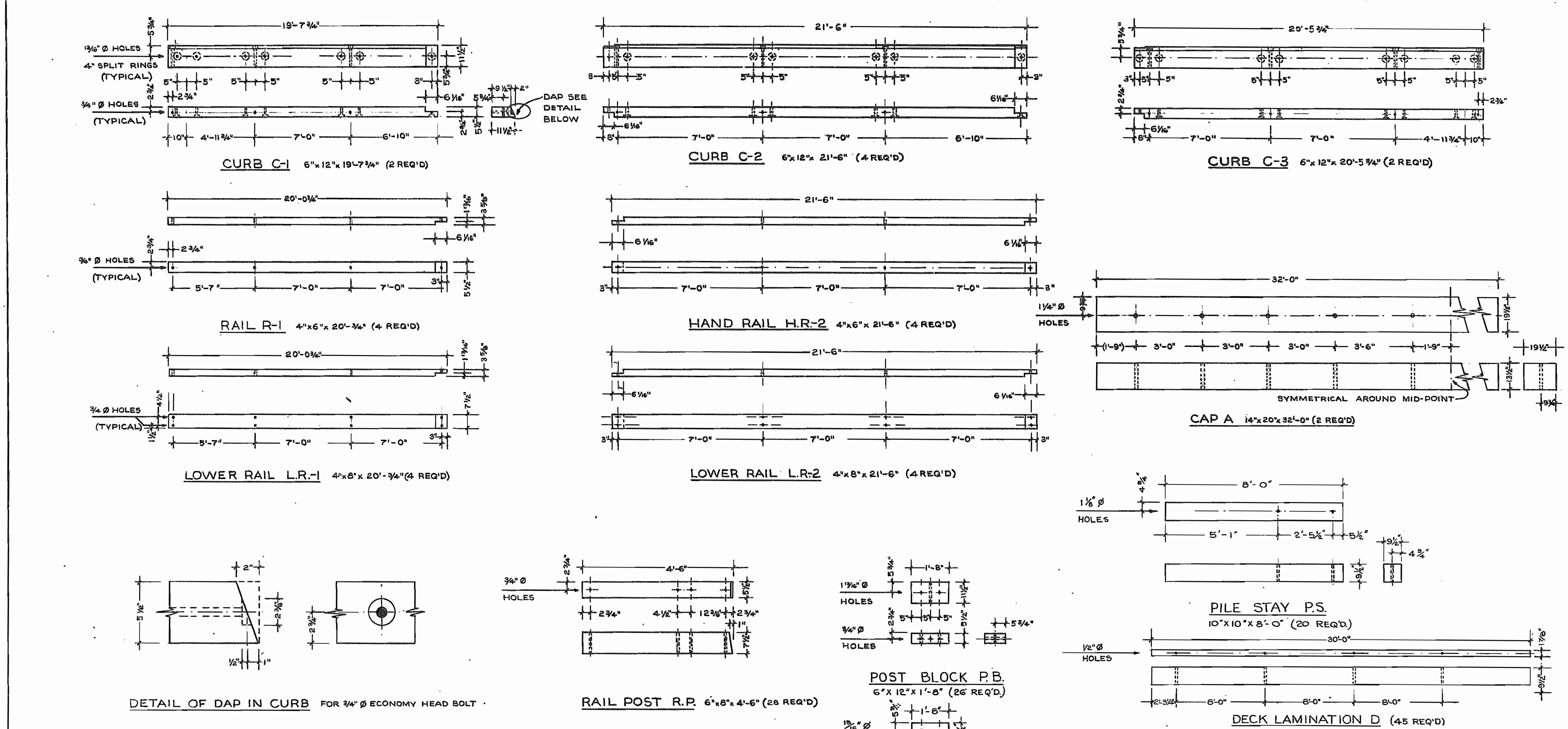
PROVINCE OF BRITISH COLUMBIA — DEPARTMENT OF LANDS AND FORESTS
FOREST SERVICE, VICTORIA, B.C. — ENGINEERING SERVICES DIVISION

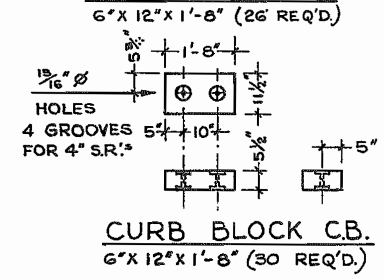
GOLD RIVER F.R. MI. 13.8 CERVUS CREEK BRIDGE
GLULAM DETAILS

FILE NO.: 0262137 | DRAWN BY: Streets | CHECKED: R.H.J. | DESIGNED
PROJECT: 6967 | APPROVED: R. Scarisbrick
SCALE: NOT TO SCALE | APPROVED: | CHIEF ENGINEER

DRAWING NO. 106P17-4-6
DATE: OCTOBER 1965 SIZE: C

35534


CURB C-1 6"x12"x19'-7¾" (2 REQ'D)
CURB C-2 6"x12"x 21'-6" (4 REQ'D)
CURB C-3 6"x12"x 20'-5¾" (2 REQ'D)
RAIL R-1 4"x6"x 20'-¾" (4 REQ'D)
HAND RAIL H.R.-2 4"x6"x 21'-6" (4 REQ'D)
CAP A 14"x20"x32'-0" (2 REQ'D)
SYMMETRICAL AROUND MID-POINT
LOWER RAIL L.R.-1 4"x8"x 20'-¾" (4 REQ'D)
LOWER RAIL L.R.-2 4"x8"x 21'-6" (4 REQ'D)
PILE STAY P.S.
10"x10"x 8'-0" (20 REQ'D.)
DETAIL OF DAP IN CURB FOR ¾" Ø ECONOMY HEAD BOLT
RAIL POST R.P. 6"x8"x 4'-6" (28 REQ'D)
POST BLOCK P.B.
6"x 12"x 1'-8" (26 REQ'D.)
DECK LAMINATION D (45 REQ'D)



NOTES

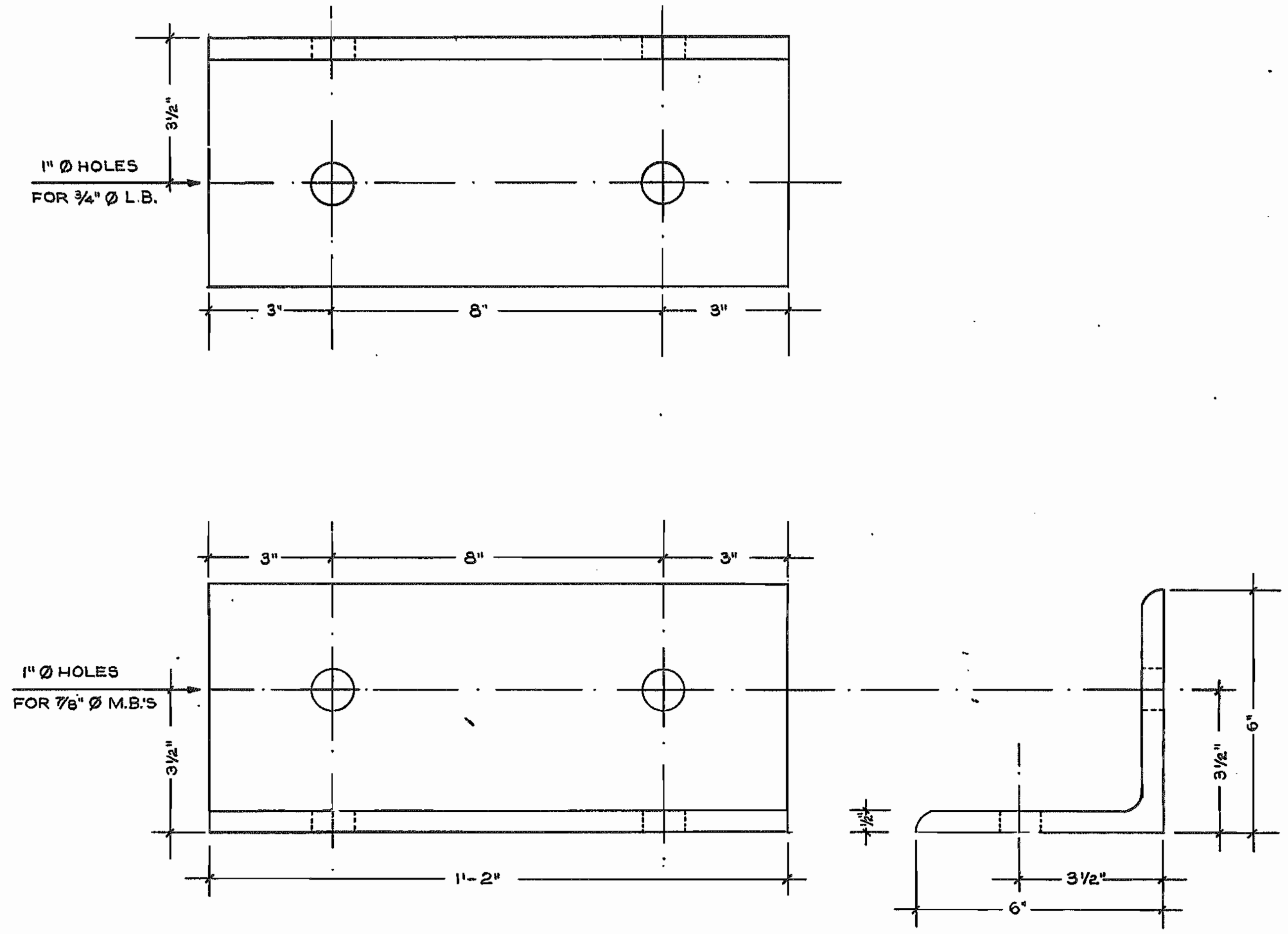
1. ALL MATERIAL S4S EXCEPT WHERE NOTED.
2. ALL QUANTITIES SHOWN ARE GROSS QUANTITIES TO BE SUPPLIED.
3. FOR QUANTITIES, GRADES ETC., ETC., REFER TO SPECS & MATERIALS LIST.
4. FOR ADDITIONAL UNFABRICATED MATERIAL REFER TO MATERIALS LIST.

Province of British Columbia — Department of Lands, Forests, and Water Resources
Forest Service, Victoria, B.C. — Engineering Services Division

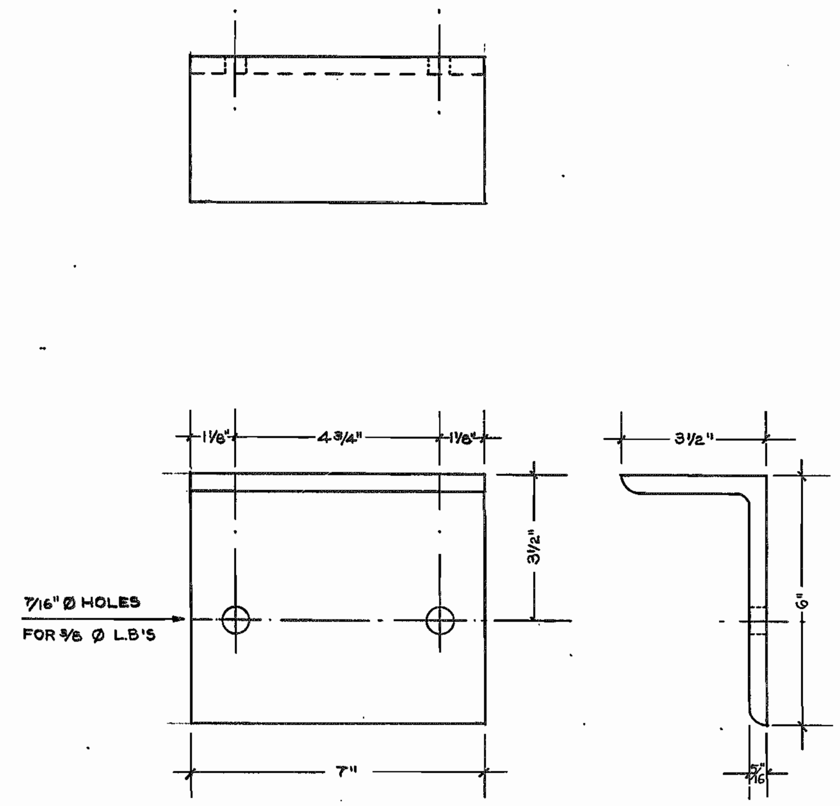
GOLD RIVER FR. MI. 13.8. CERVUS CREEK BRIDGE
SAWN TIMBERS DETAILS

FILE No. 0262137
PROJECT: 6967
SCALE: NOT TO SCALE
DRAWING No. 106P17-5-6
DATE: OCTOBER 1965

3553



BEARING ANGLE L 6"x 6"x 1/2"x 1'-2" (16 REQ'D)

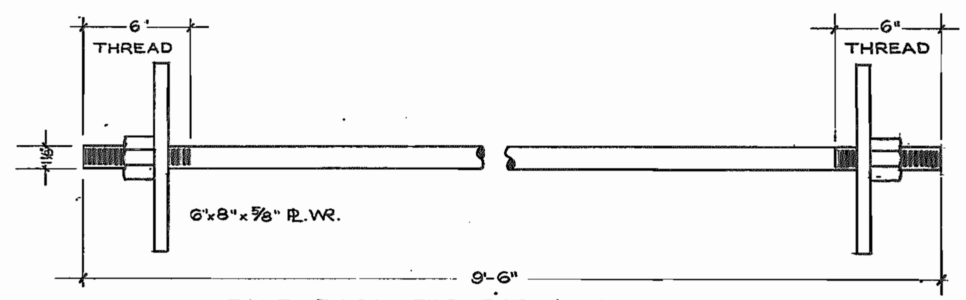


DIAPHRAGM SEAT ANGLE

6"x 3 1/2"x 5/16"x 0'-7" (24 REQ'D)

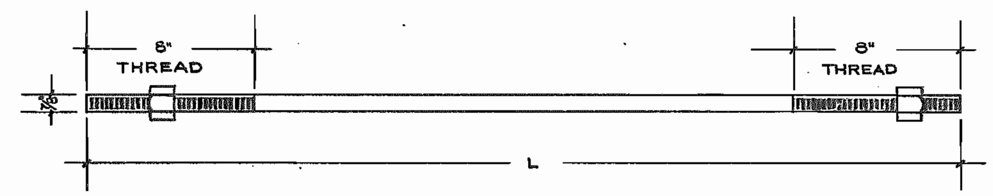
NOTE

ALL STEEL TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH A.S.T.M. SPEC. A153



DIAPHRAGM TIE ROD ASSEMBLY

1 1/8Ø x 9'-6" TIE ROD WITH 6" THREAD BOTH ENDS.
2-6"x 8"x 5/8" PLATE WASHERS WITH A CENTER HOLE OF 1 3/16"Ø
2-HEAVY HEX NUTS.
(24 REQ'D)



ANCHOR TIE ROD ASSEMBLY

7/8" Ø TIE ROD 20'-0" L (4 REQ'D)
7/8" Ø TIE ROD 24'-0" L (8 REQ'D)
HEAVY HEX NUTS (24 REQ'D)

No.	REVISION, ETC.	DATE	FILE	PROJECT

Province of British Columbia — Department of Lands, Forests, and Water Resources
Forest Service, Victoria, B.C. — Engineering Services Division

GOLD RIVER FR. MI. 13.8 CERVUS CREEK BRIDGE
STEEL DETAILS

FILE No.: 0262137	DRAWN BY: Strouts	CHECKED R.H.F.	DESIGNED	DRAWING No. 106P17-6-6
PROJECT: 6967	APPROVED: R Scarisbrick			
SCALE: NOT TO SCALE	APPROVED:			DATE: OCTOBER 1965 SIZE: C

35536

IV-12-e

GOLD RIVER F.R.

169886

No.	REVISION, ETC	DATE	FILE	PROJECT

Province of British Columbia — Department of Lands, Forests, and Water Resources
Forest Service, Victoria, B.C. — Engineering Services Division

GOLD RIVER F.R.
CERVUS CR. SITE PLAN

FILE No.:	DRAWN BY: [redacted]	PARTY CHIEF:	2345 TJ [redacted]
PROJECT:	APPROVED: [redacted] Supervisor		
SCALE: 1" = 20'	APPROVED: Chief Engineer		DATE: JULY 30, 1965

1-2345

GOLD RIVER F.R.

IV-12-e