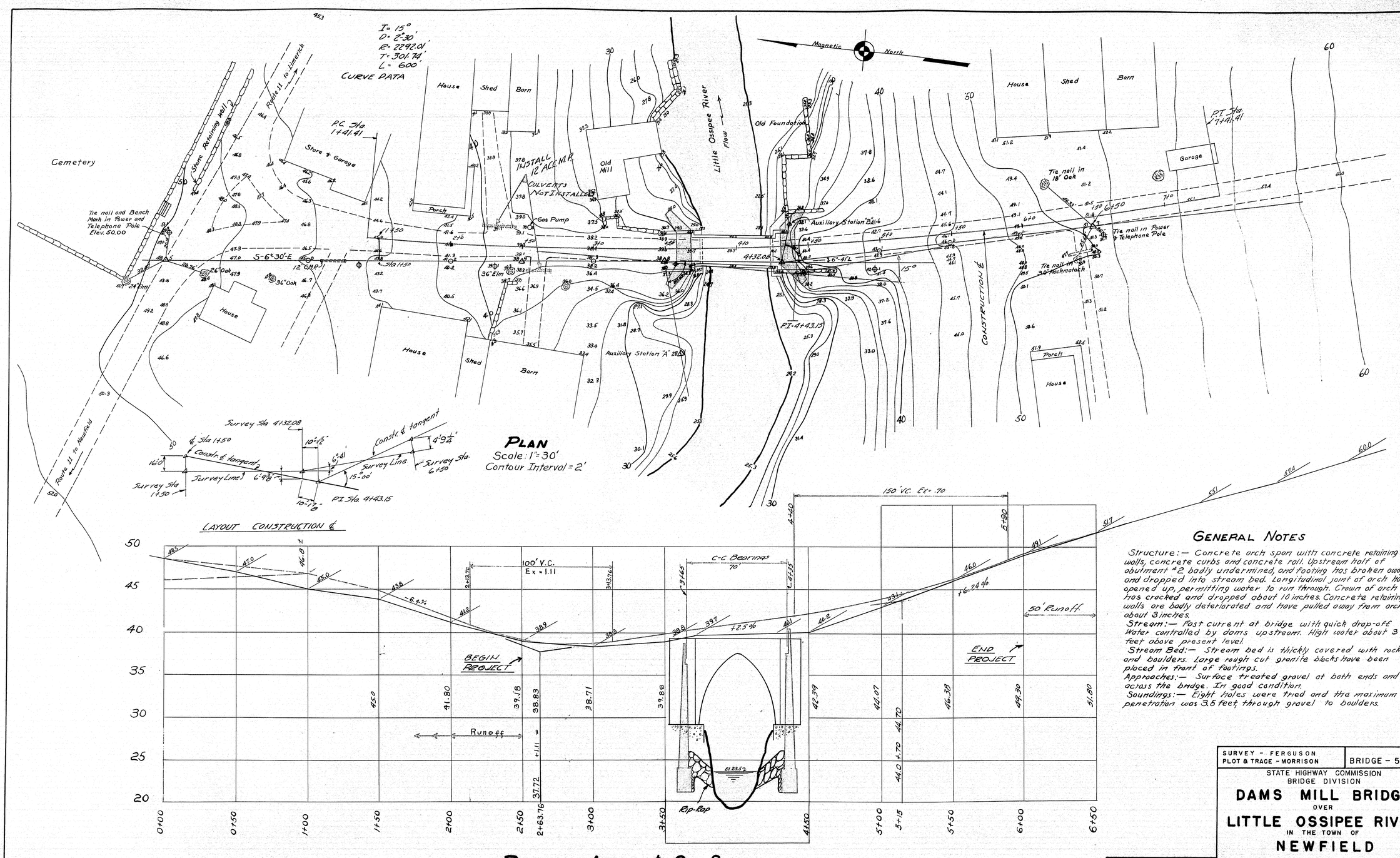


GENERAL NOTES

Structure:— Concrete arch span with concrete retaining walls, concrete curbs and concrete rail. Upstream half of abutment #2 badly undermined, and footing has broken away and dropped into stream bed. Longitudinal joint of arch has opened up, permitting water to run through. Crown of arch has cracked and dropped about 10 inches. Concrete retaining walls are badly deteriorated and have pulled away from arch about 3 inches.

Stream:— Fast current at bridge with quick drop-off. Water controlled by dams upstream. High water about 3 feet above present level.

Stream Bed:— Stream bed is thickly covered with rocks and boulders. Large rough cut granite blocks have been placed in front of footings.

Approaches:— Surface treated gravel at both ends and across the bridge. In good condition.

Soundings:— Eight holes were tried and the maximum penetration was 3.5 feet, through gravel to boulders.

SURVEY - FERGUSON
PLOT & TRACE - MORRISON

BRIDGE - 5313

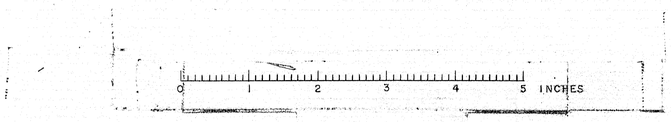
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

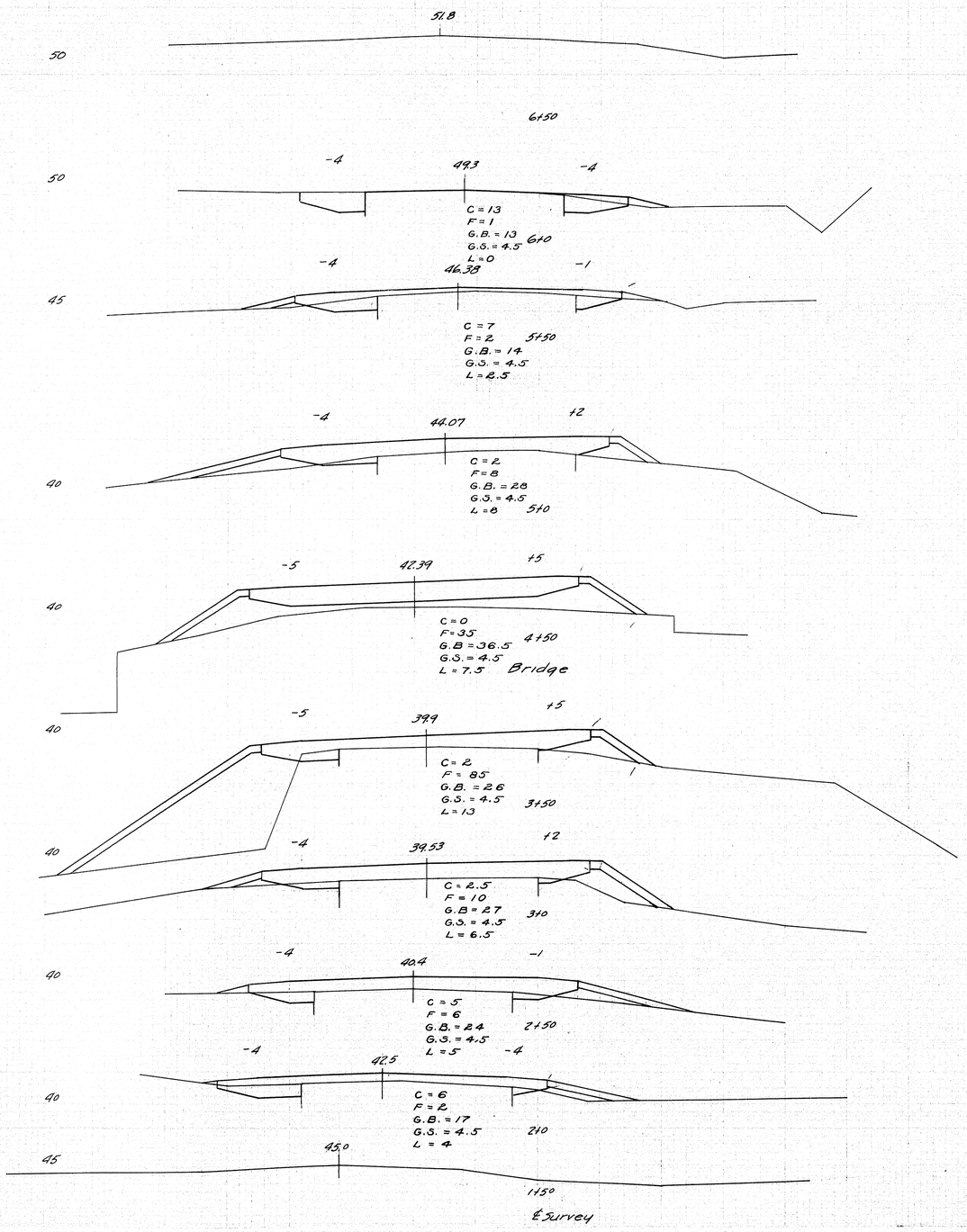
DAMS MILL BRIDGE
OVER
LITTLE OSSIPEE RIVER
IN THE TOWN OF
NEWFIELD
YORK COUNTY
SURVEY

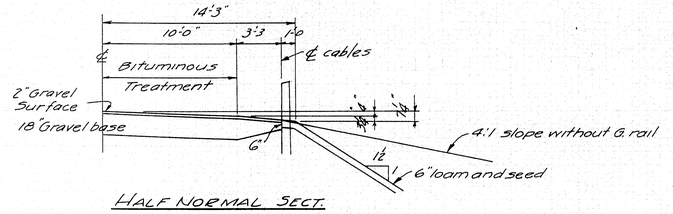
REVISED: 7/28/50
GRADES-NORTH APPROACH -EVERETT
CHECKED - VIOLETTE

SHEET 1 OF 5 AUGUSTA, MAINE JAN. 1950

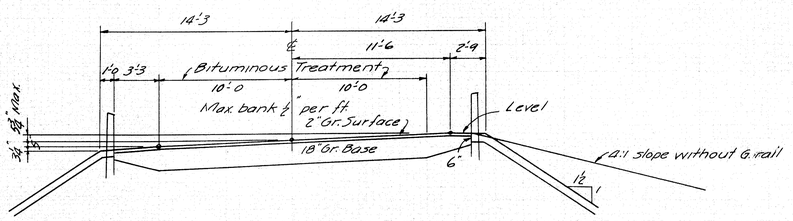
50-196







HALF NORMAL SECT.



BANK SECTION

Note-
Do not excavate for gravel base if existing material is suitable

PLOT- EVERETT CHECK- [illegible]	BRIDGE- 5313

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

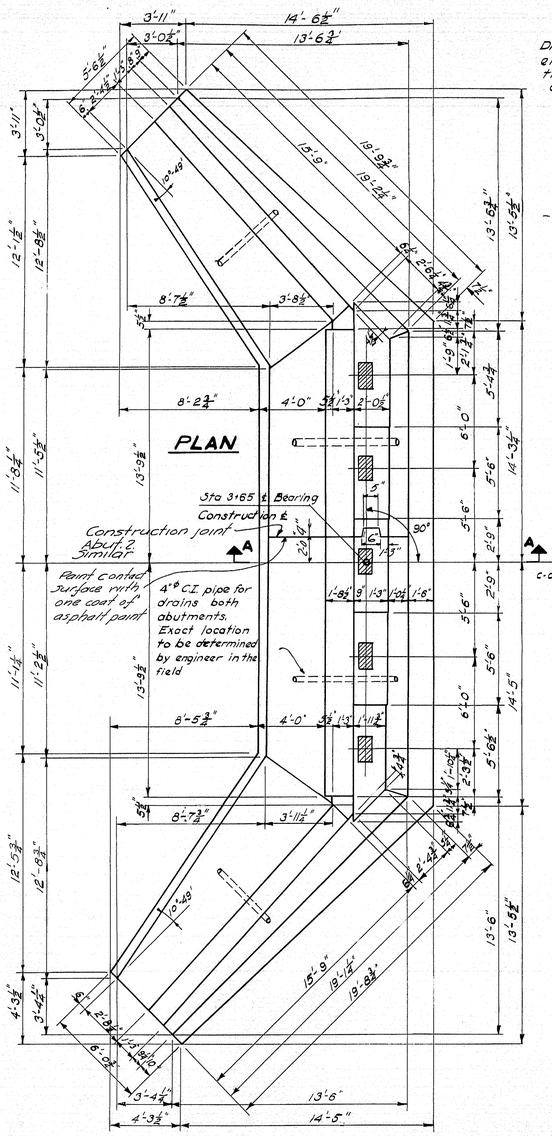
DAMS MILL BRIDGE
OVER
LITTLE OSSIPEE RIVER
IN THE TOWN OF
NEWFIELD
YORK COUNTY

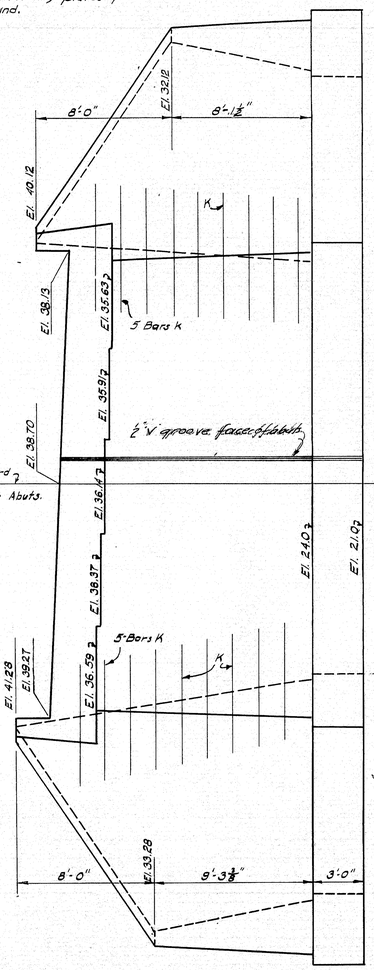
CROSS-SECTIONS

SHEET 2 OF 5 AUGUSTA, MAINE JUNE 1950

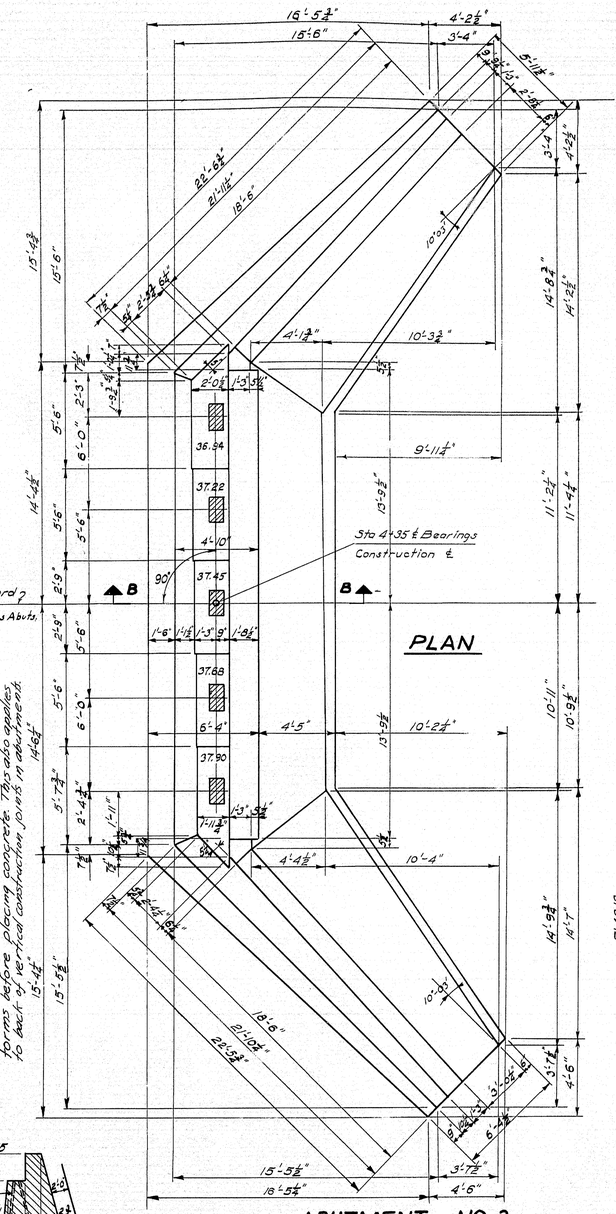
50-197

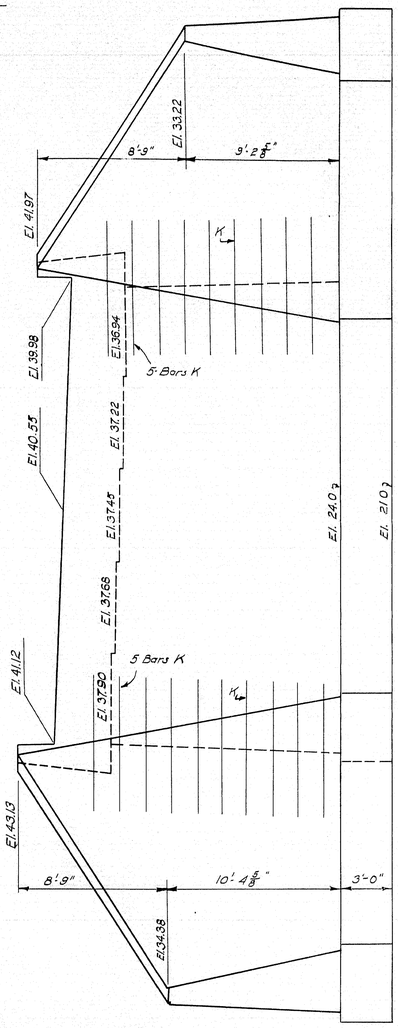
0 1 2 3 4 5 INCHES

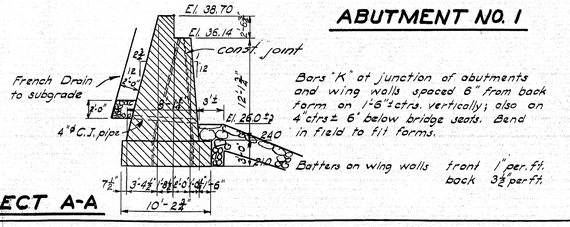


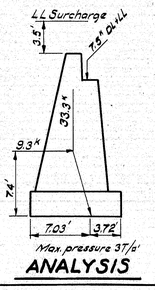


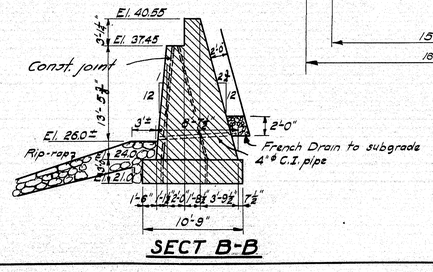
Note- Cover the 2" slots between superstr. and abutments on the back side with two layers of heavy roofing 10" wide. Cover the concrete and back of each layer as applied with a suitable grade of roofing cement. Recess roofing 4" by nailing thin strips to the form before placing concrete. This also applies to back of vertical construction joints in abutments.











DESIGN – EVERETT
TRACE – BAILEY
CHECK – JLB

BRIDGE – 5313

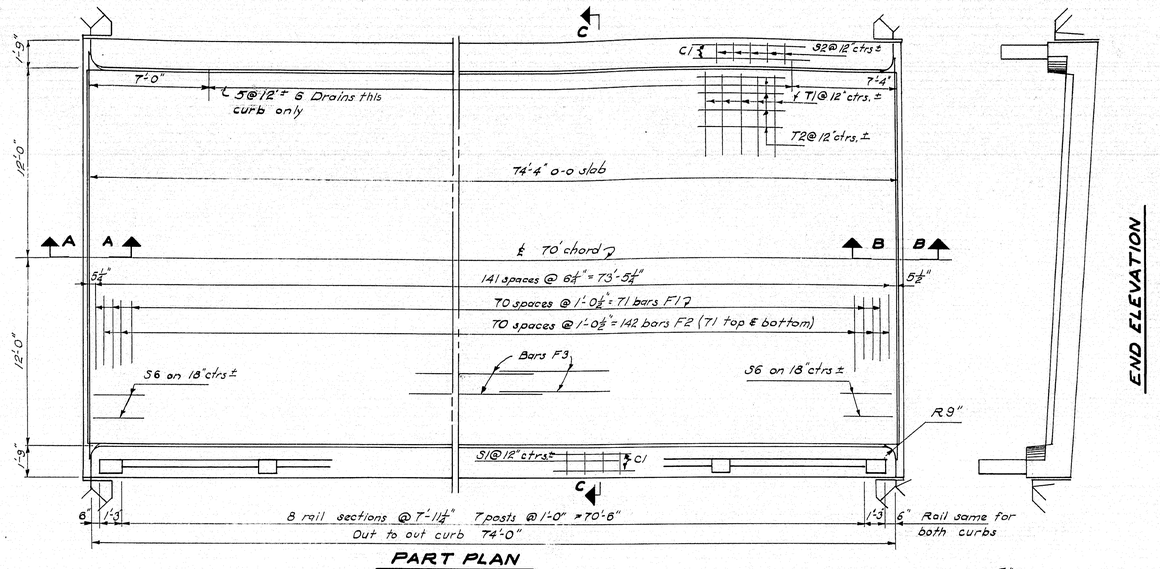
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

DAMS MILL BRIDGE
OVER
LITTLE OSSIPEE RIVER
IN THE TOWN OF
NEWFIELD
YORK COUNTY
SUBSTRUCTURE

SHEET 3 OF 5 AUGUSTA, MAINE JUNE 1950

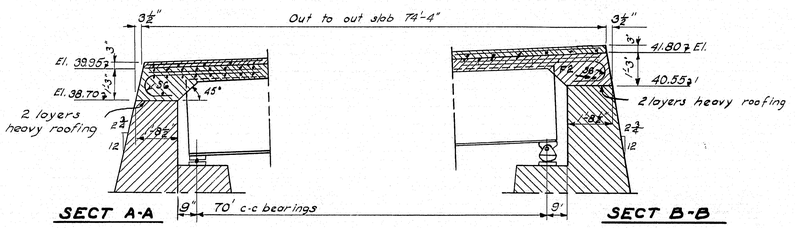
50-198

0 1 2 3 4 5 INCHES



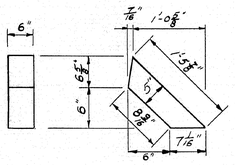
PART PLAN

END ELEVATION



SECT A-A

SECT B-B

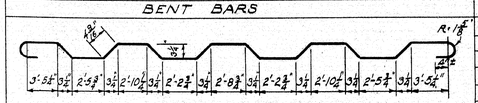


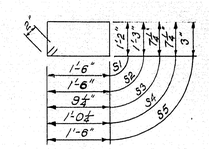
DETAIL METAL DRAIN

6 Req'd #24 gage galv. iron

REINFORCING STEEL

BENT BARS



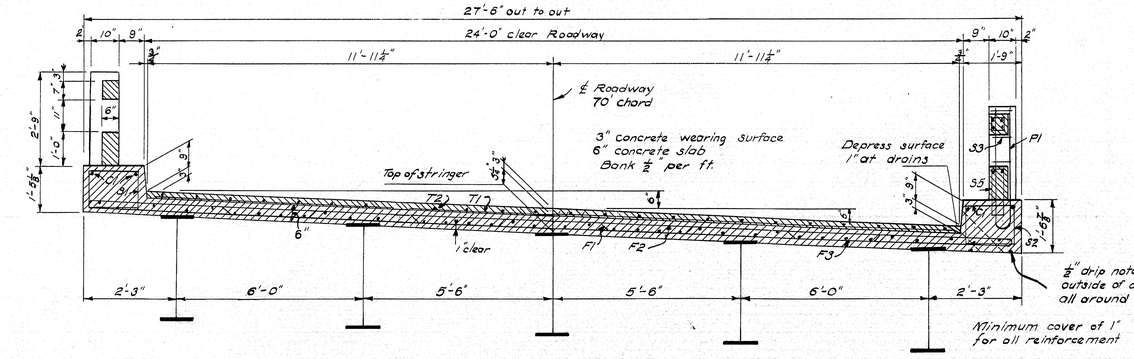


STRAIGHT BARS

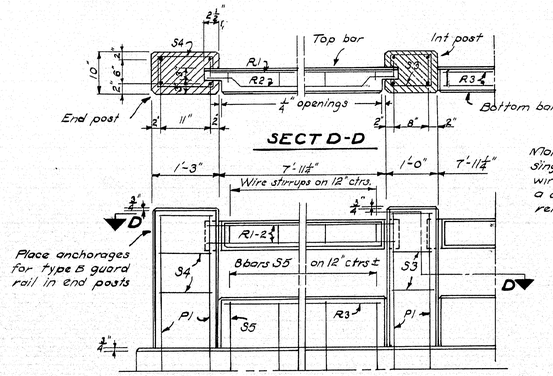
Mark	Size	No.	Length	Remarks
F2	⅝"ø	144	27'-3"	Slab
F3	½"ø	76	37'-10"	Slab
T1	⅜"ø	75	23'-7"	Surface
T2	⅜"ø	48	37'-8"	Surface
R1	½"ø	32	8'-3½"	Rail
R3	½"ø	32	7'-10"	Rail
C1	½"ø	8	37'-9"	Curb
K	⅝"ø	53	8'-0"	Abut.

Mark	Size	No.	Length	Remarks
F1	⅝"ø	71	29'-4"	Slab
R2	⅝"ø	32	8'-5½"	Rail bar
P1	½"ø	36	7'-9½"	Rail posts
S1	½"ø	74	5'-8"	High Curb
S2	½"ø	74	5'-10"	Low Curb
S3	½"ø	42	3'-1"	Int. posts
S4	½"ø	12	3'-7"	End posts
S5	½"ø	128	3'-10"	Rail bar
S6	½"ø	38	5'-6½"	Slab

Dimensions to ℄ of bars
All reinforcing steel shall conform to ASTM Specifications A 305-49



TRANSVERSE SECTION C-C



Make wire stirrups from a single strand of #9 annealed wire. In forming stirrups make a complete turn around each reinforcing bar.

Loading	H15-44
fs	18000#/□"
fc	1000#/□"
n	10

CONCRETE CLASSIFCATION

Abutments	Class B
Slab	Class A
Surface	Class AA
Rail	Class Y

PART ROADWAY ELEV.

RAIL DETAILS

Cast curb with slab. Steel for posts and bottom bar to be in position before curb is placed. Cast lower bar in place. Precast top bar and set in position so that the ends project into post form 2¾. Wrap the tongue-ends with two layers of heavy roofing. Build post forms and cast posts. Chamfer exposed edges of concrete ¾" unless otherwise indicated. Rail posts to be vertical.

DESIGN-EVERETT
TRACE-BAILEY
CHECK-

BRIDGE - 5313

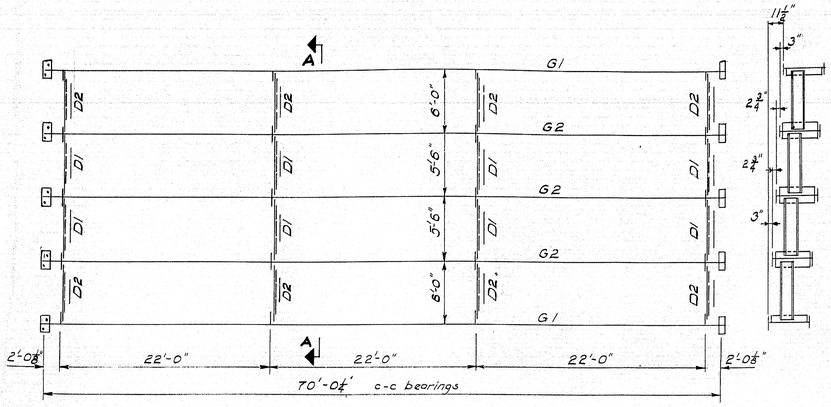
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

DAMS MILL BRIDGE
OVER
LITTLE OSSIPEE RIVER
IN THE TOWN OF
NEWFIELD
YORK COUNTY
SUPERSTRUCTURE

SHEET 4 OF 5 AUGUSTA, MAINE JUNE 1950

50-199

0 1 2 3 4 5 INCHES



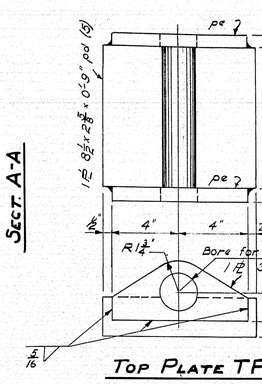
ABUT. NO. 1

ERECTION DIAGRAM

ABUT. NO. 2

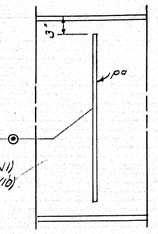
REQ'D FOR EACH BEARING

Fixed	Expansion
1- TP2R	1- ER1
1- TP2L	1- TP1
1- PN2	1- MP1
2- AB1	1- PN1
	2- W1
	2- AB1



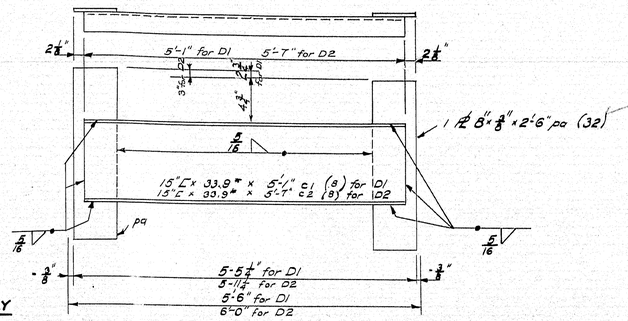
TOP PLATE TP1

5 Req'd



FIELD ASSEMBLY

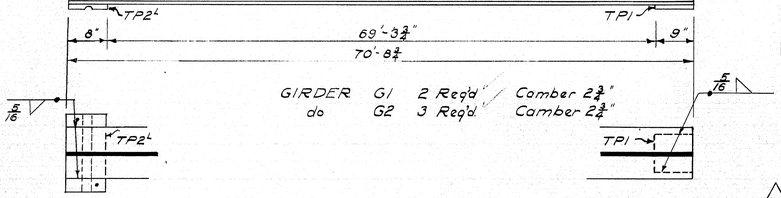
D1 & D2 to G1 & G2

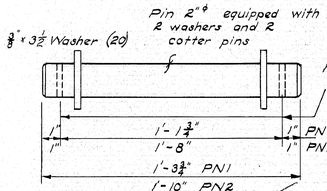


DIAPHRAGM D1 & D2

8 ea. Req'd

36"WF @ 170# x 70'-8¾" G2
36"WF @ 194# x 70'-8¾" G1





PIN PN1

5 Req'd

PIN PN2

5 Req'd

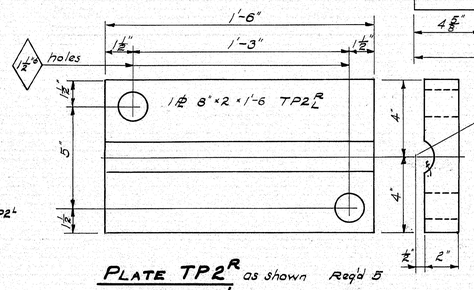
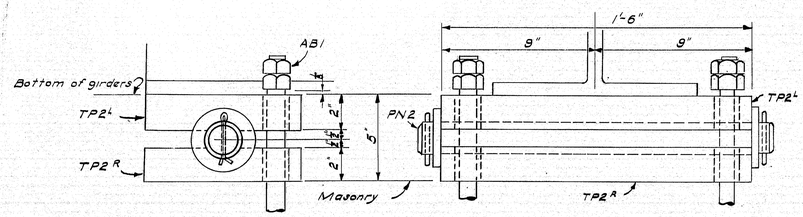
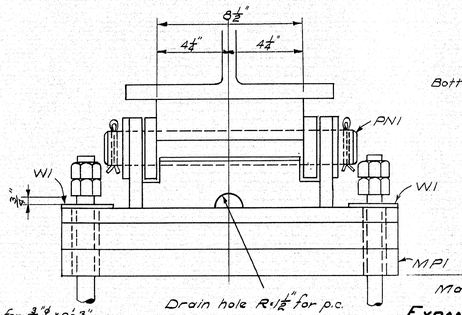


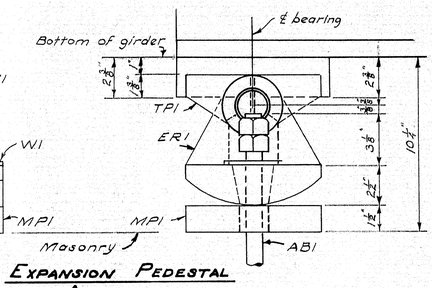
PLATE TP2R as shown Req'd 5

do TP2L opp hand Req'd 5

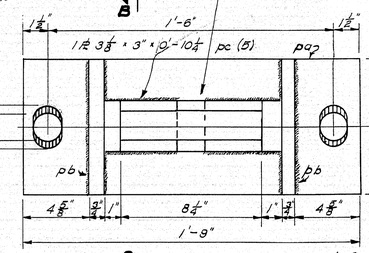


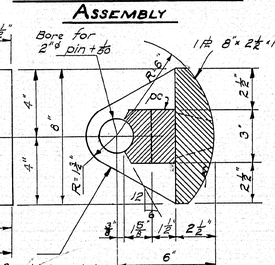
FIXED PEDESTAL ASSEMBLY



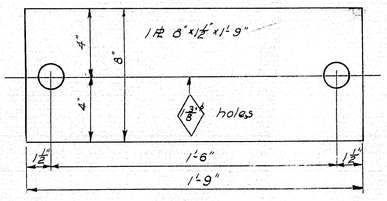


EXPANSION PEDESTAL ASSEMBLY



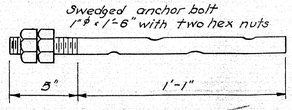


SECT B-B



MASONRY PLATE MP1

5 Req'd



ANCHOR BOLT AB1 Req'd 20

NOTE: All welds ⅜" fillet shop for ER1.

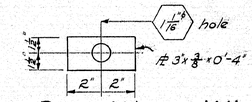


PLATE WASHER W1

10 Req'd

SPECIFICATIONS: State of Maine State Highway Commission Bridge Division, Steel Highway Bridges, November 1945.
LOADING H15-44
PAINTING Shop contact surfaces not painted. Machine finished surfaces to be coated with a hot mixture of white lead and tallow, or other approved coating

DESIGN- EVERETT
TRACE - BAILEY
CHECK -

BRIDGE — 5313

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

DAMS MILL BRIDGE
OVER
LITTLE OSSIPEE RIVER
IN THE TOWN OF
NEWFIELD
YORK COUNTY

STEEL DETAILS

SHEET 5 OF 5 AUGUSTA, MAINE JUNE 1950

50-200

0 1 2 3 4 5 INCHES