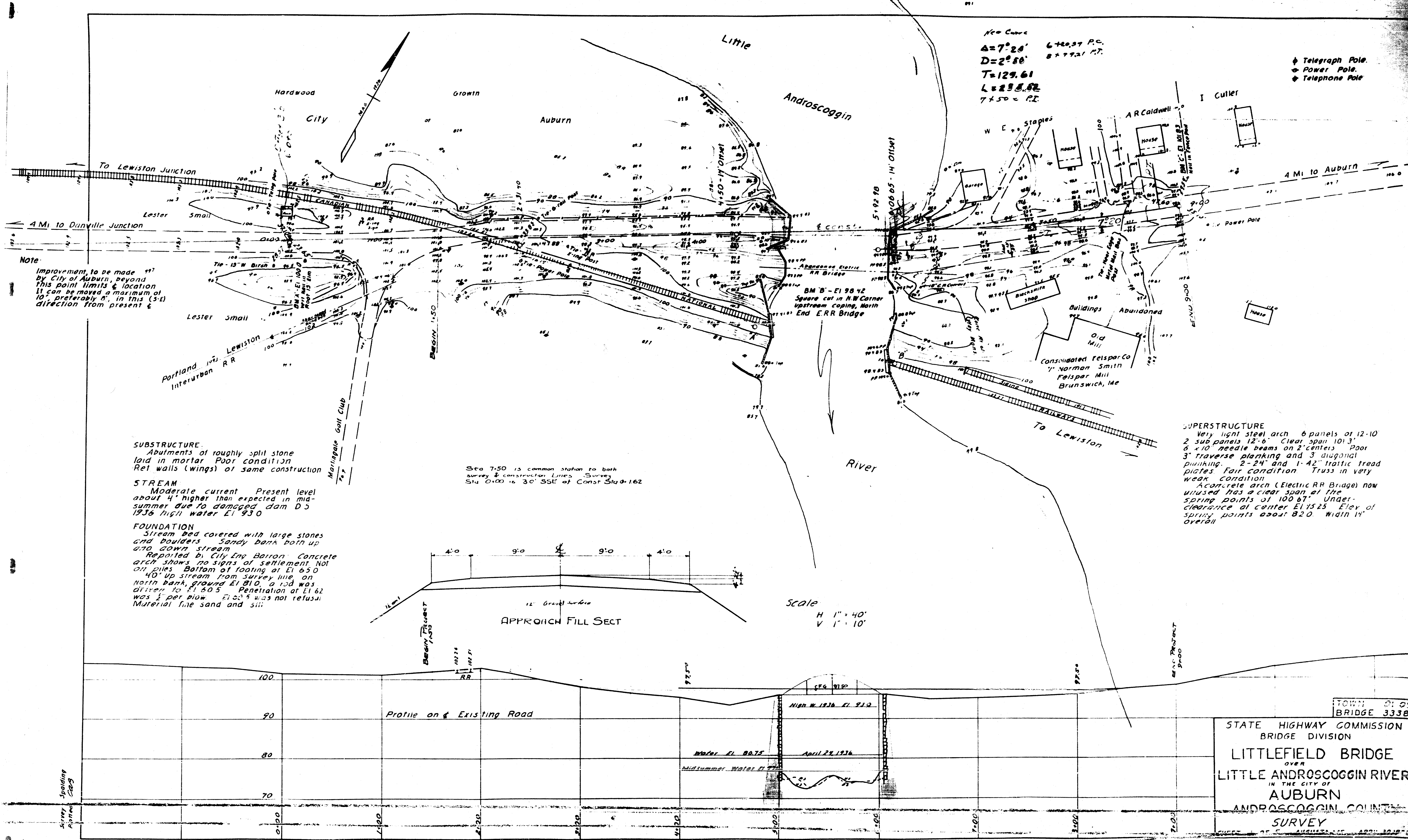


SUBSTRUCTURE

Abutments of roughly split stone laid in mortar. Poor condition. Ret walls (wings) of same construction

STREAM

Moderate current. Present level about 4' higher than expected in midsummer due to damaged dam D S. 1936 high water El 93.0

FOUNDATION

Stream bed covered with large stones and boulders. Sandy bank both up and down stream.

Reported by City Eng Barron: Concrete arch shows no signs of settlement. Not on piles. Bottom of footing at El 65.0

40' up stream from survey line on north bank, ground El 81.0, a rod was driven to El 60.5. Penetration at El 62 was ½" per blow. El 60.5 was not refusal. Material fine sand and silt

SUPERSTRUCTURE

Very light steel arch. 6 panels of 12-10, 2 sub panels 12'-6". Clear span 101.3'. 6 x 10" needle beams on 2' centers. Poor 3" traverse planking and 3" diagonal planking. 2-24" and 1-42" traffic tread plates. Fair condition. Truss in very weak condition.

A concrete arch (Electric RR Bridge) now unused has a clear span at the spring points of 100.67'. Underclearance at center El 95.25. Elev of spring points about 82.0. Width 14' overall

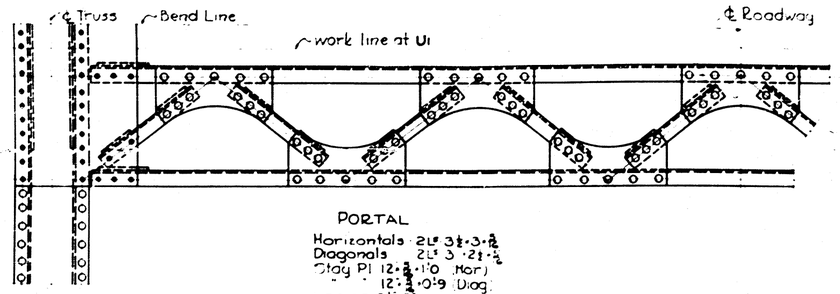
TOWN 01 0?
BRIDGE 333B

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LITTLEFIELD BRIDGE
over
LITTLE ANDROSCOGGIN RIVER
in the city of
AUBURN
ANDROSCOGGIN COUNTY

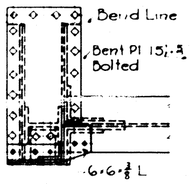
SURVEY

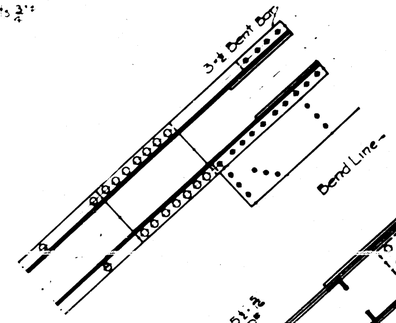
27-192

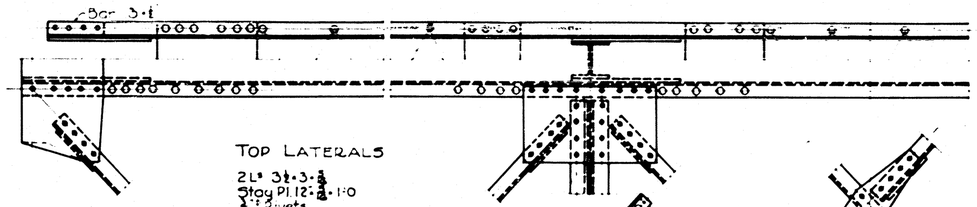


PORTAL

Horizontals 2L⁸ 3½·3·⅜
Diagonals 2L⁸ 3·2½·⅜
Stay Pl 12·⅜·1'0 (Hor)
12·⅜·10'9 (Diag)
Lacing 2½·⅜
Gusset Pl ⅜ Rivets ¾"

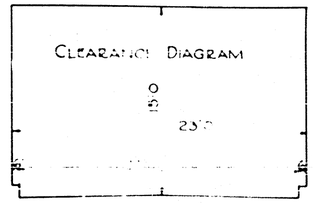


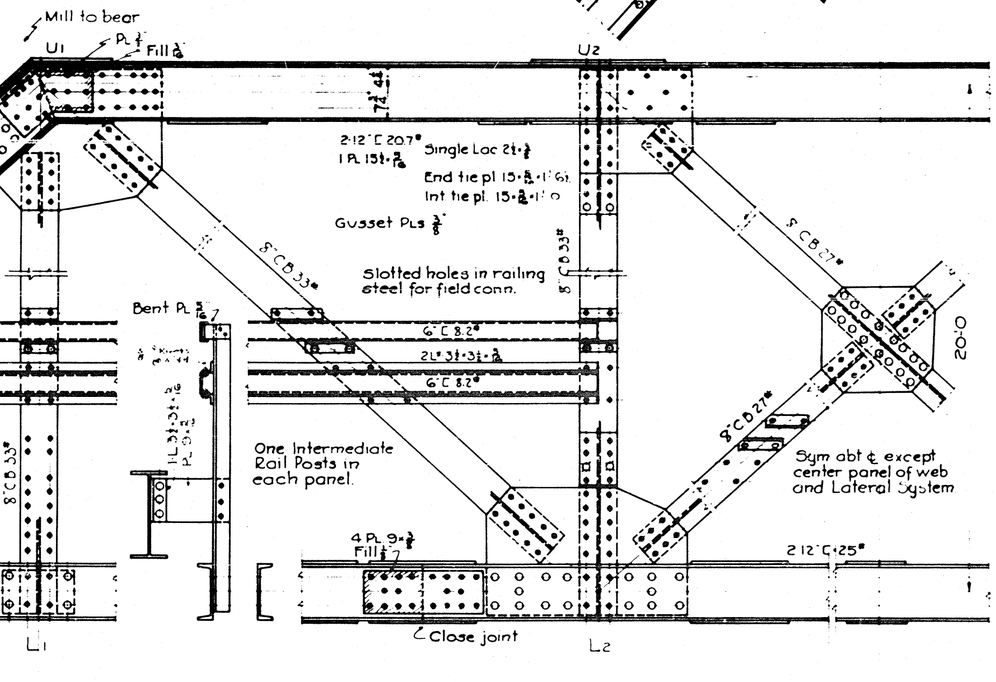


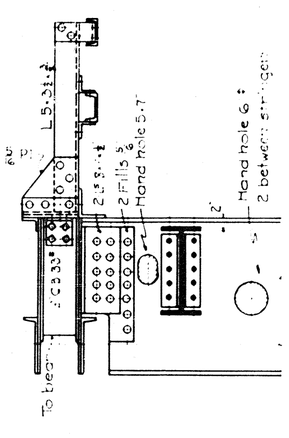


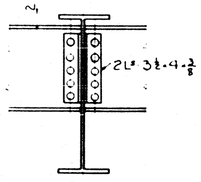
TOP LATERALS

2L⁸ 3½·3·⅜
Stay Pl 12·⅜·1'0
¾" Rivets
Lacing 2½·⅜
Lat Pl ⅜

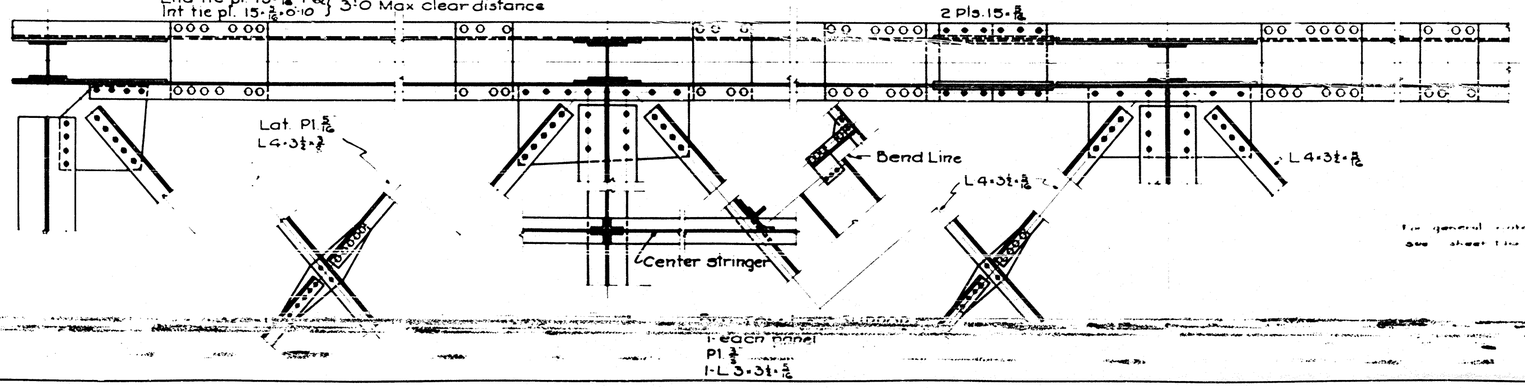


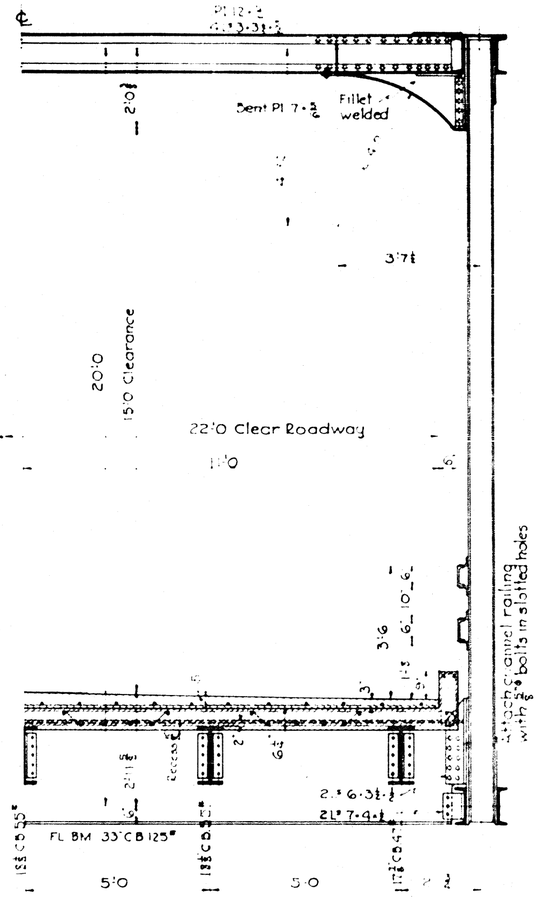






STRINGER CONN





HALF CROSS SECTION

Sheet No. 01
BRIDGE 3338

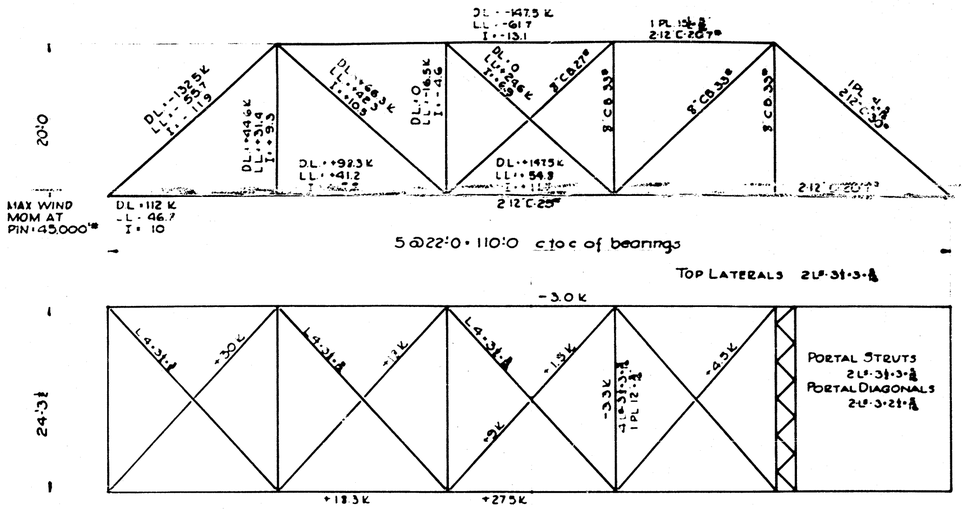
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LITTLEFIELD BRIDGE
OVER
LITTLE ANDROSCOGGIN RIVER
IN THE CITY OF
AUBURN

TRUSS DETAILS

SHEET NO. 1 OF 3 SHEETS AUGUSTA ME. JUNE 1936

27-193



TOP LATERALS 2 L 3½ x 3½ x ⅜

HALF PLAN BOTTOM LATERALS | HALF PLAN TOP LATERALS

Lateral force - Top chord - 150# per ft moving load.
- Bot chord - 30# per sq ft moving Load on 1½ area in elevation plus moving load of 200# per ft.

Live Load H-15 plus Impact
Dead Load 2020# per ft of Truss
Specifications:- Maine State Highway Commission Steel Highway Bridges 1936.

All details shall be in accordance with specifications
All field connections of main members to be sub-punched and reamed
All rivets ⅞" except in top chord bracing portal and railing.

STRINGERS

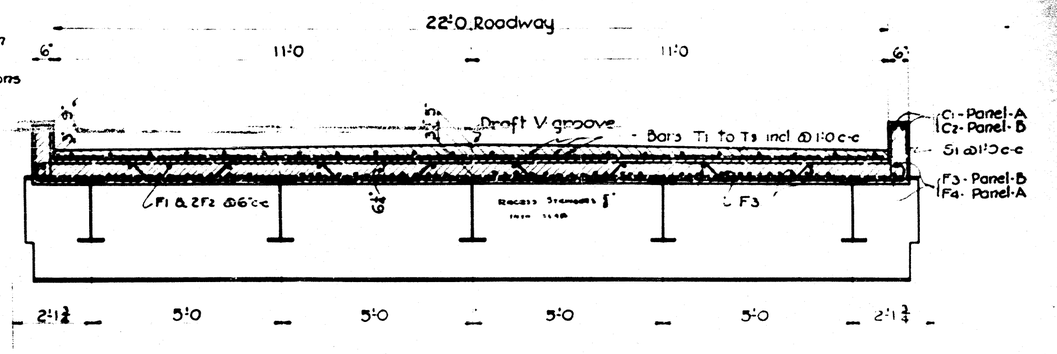
	INTERIOR	EXTERIOR
DLM	542000	422000
LLM	330000	712000
I	900000	242000
	1772000	1376000
	18 CB 55#	17 CB 47#

FLOOR BEAM

DLM	2976000 in lbs
LLM	2501000
I	749000
	6226000
	33 CB 125#

CONCRETE

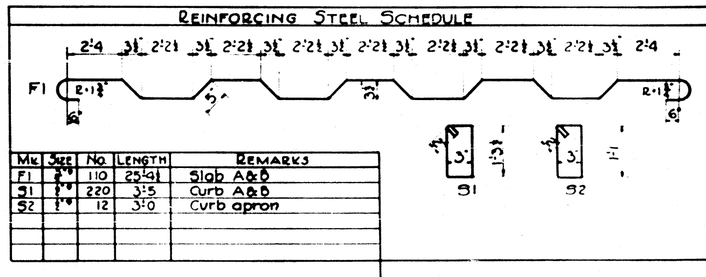
SUPERSTRUCTURE	CLASS A
ABUTMENTS	CLASS B
WEARING SURFACE	CLASS Y



TRANSVERSE SECTION

LONGITUDINAL STEEL BETWEEN STRINGERS SHALL BE 6-½" BARS (F3) IN MID HALF & 2-½" BARS (F3) IN OUTSIDE QUARTERS — TO REST ON LOWER COURSE OF TRANSVERSE STEEL (F1 & F2)

REINFORCING STEEL SCHEDULE

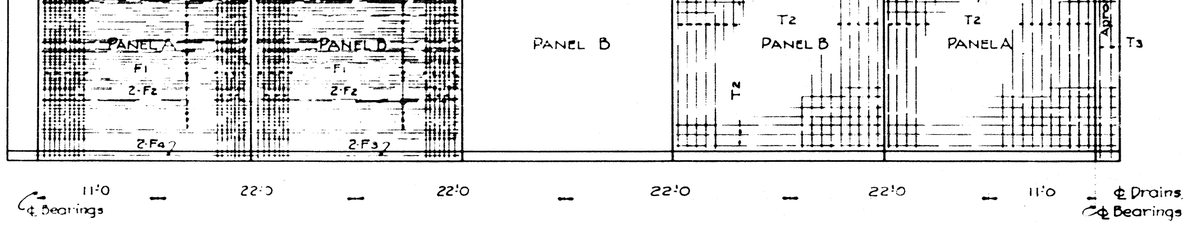


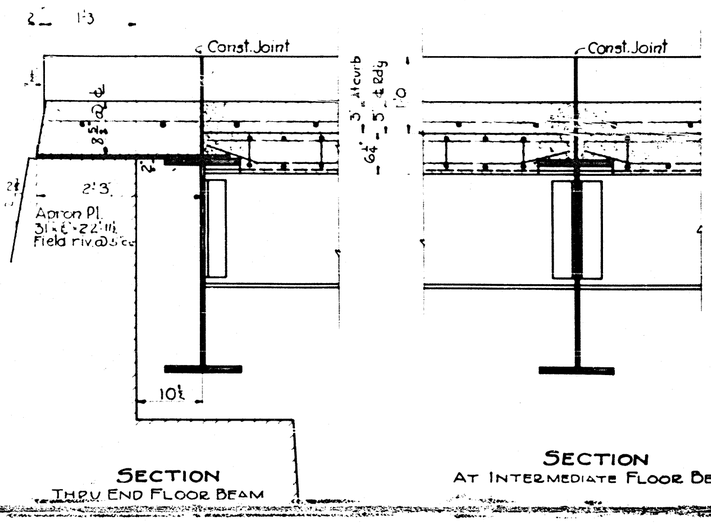
Mk	Size	No	Length	Remarks
F1	½"	110	25'4½	Slab A&B
S1	½"	220	3'5	Curb A&B
S2	½"	12	3'0	Curb apron

STRAIGHT BARS

Mk	Size	No.	Length	Remarks
F2	½"	210	22'8	Slab A&B
F3	½"	252	21'10	do
F4	½"	8	24'0	Slab A into Apron
T1	½"	44	24'0	Surface A into Apron
T2	½"	176	21'10	Surface A&B
T3	½"	4	22'9	Apron
C1	½"	8	23'11	Curb A into Apron
C2	½"	12	21'10	Curb B

All reinforcing steel to be plain bars of structural grade. All dimensions to ¢ of bars.

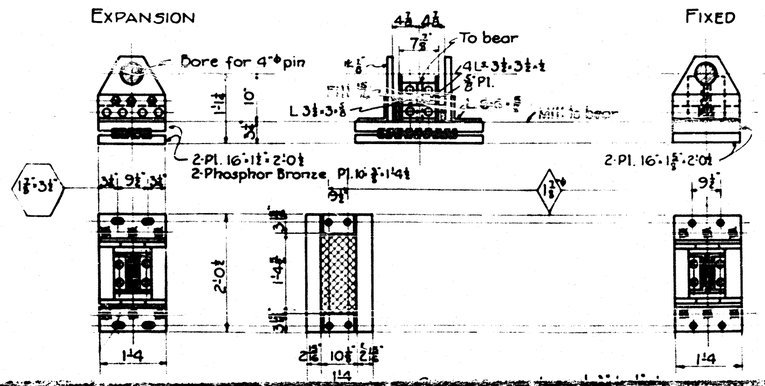




SECTION THRU END FLOOR BEAM

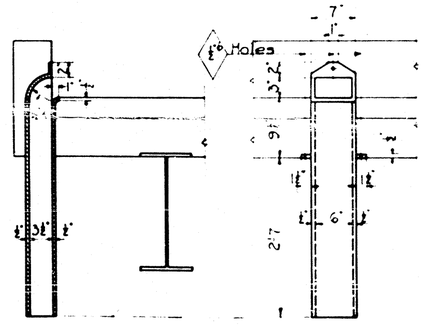
SECTION AT INTERMEDIATE FLOOR BEAM

PEDESTALS



4 - Swedged anchor bolts 1¼ x 1'10 each bearing - 2 hex nuts each bolt - ⅞ washers - set 1'3 in concrete.

Finish bed of ea to permit machining.



CAST IRON DRAINS
2 - each panel required

Town 01-01
Bridge 3338

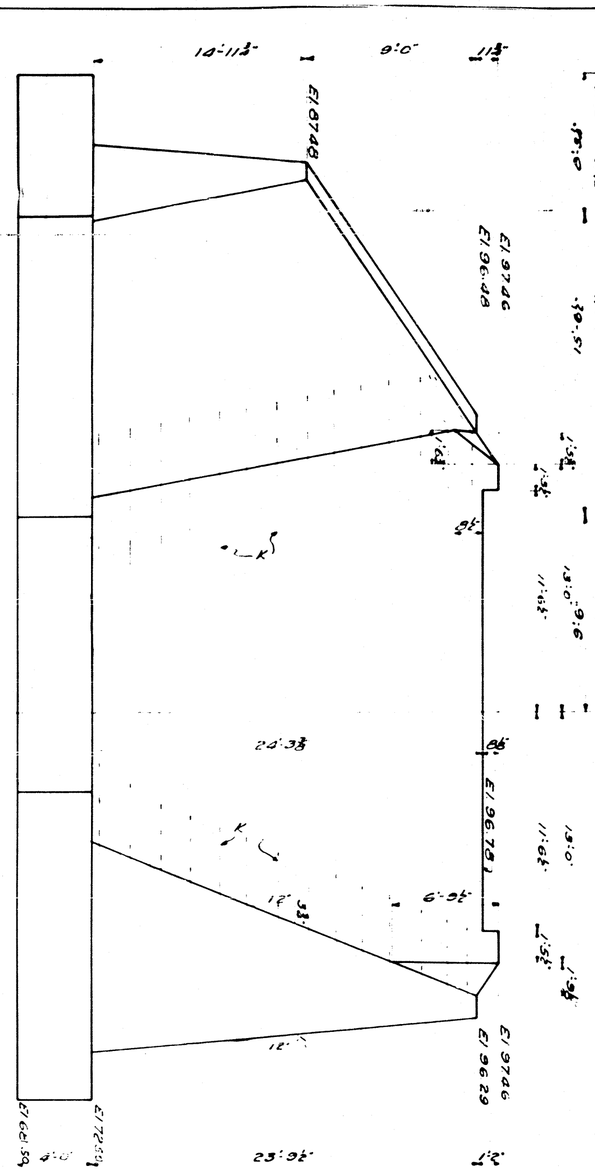
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LITTLEFIELD BRIDGE
OVER
LITTLE ANDROSCOGGIN RIVER
IN THE CITY OF
AUBURN
ANDROSCOGGIN COUNTY

STEEL & FLOOR DETAILS

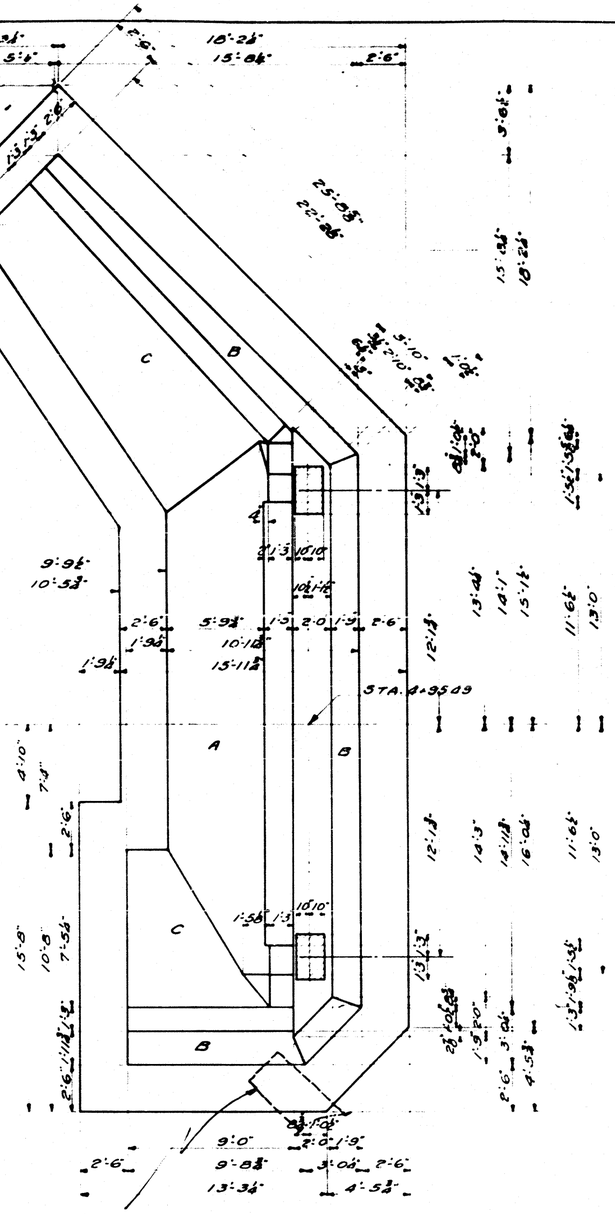
SHEET 3 OF 5 SHEETS AUGUSTA ME. JUNE 1936

27-194



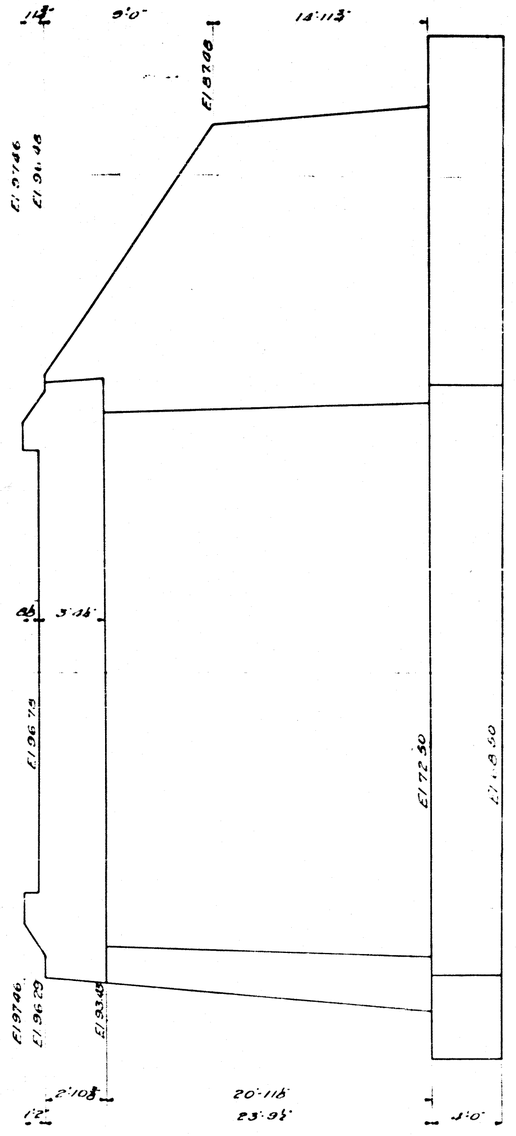
Place K bars at junction of wings and breast wall 6" from back form at 1'-6" ctrs, also at 4" ctrs horizontally 6" below bridge seat elevation.

BATTERS
A - 2⅞ on 12
B - 1 on 12
C - 3¾ on 12

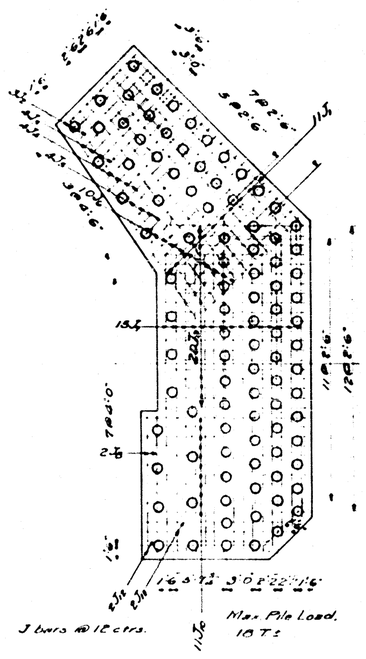


Note: Existing concrete wing of R.R Abut not to be removed. Break the bond between the old concrete and the new with roofing.

Dress shaded areas to exact Elev. 93.43



Cover the ½" slots between the superstructure and substructure on the back side with two layers of heavy roofing 10 in wide. Coat the surfaces of the concrete and the back side of each layer as applied with hot tar or asphalt. The area to be covered is to be recessed ½" by nailing thin strips to the forms before concrete is placed.



PLAN
PILES & FOOTING STEEL

Assume pile length 20 ft for Estimate. Actual lengths to be determined in field.

Every other pile in front row of the batter is omitted.

BAR	No. Reqd	SIZE	LENGTH
K	48	⅝" ø	5'-0"
J1	11	"	24'-6"
J2	3	"	10'-6"
J3	4	"	11'-0"
J4	4	"	11'-6"
J5	4	"	12'-6"
J6	10	"	13'-6"
J7	15	"	31'-0"
J8	2	"	14'-0"
J9	20	"	15'-0"
J10	11	"	16'-6"
J11	2	"	15'-0"
J12	2	"	13'-0"

Design - EB - VE
Checked [illegible]

TOWN 01-01
BRIDGE 3336

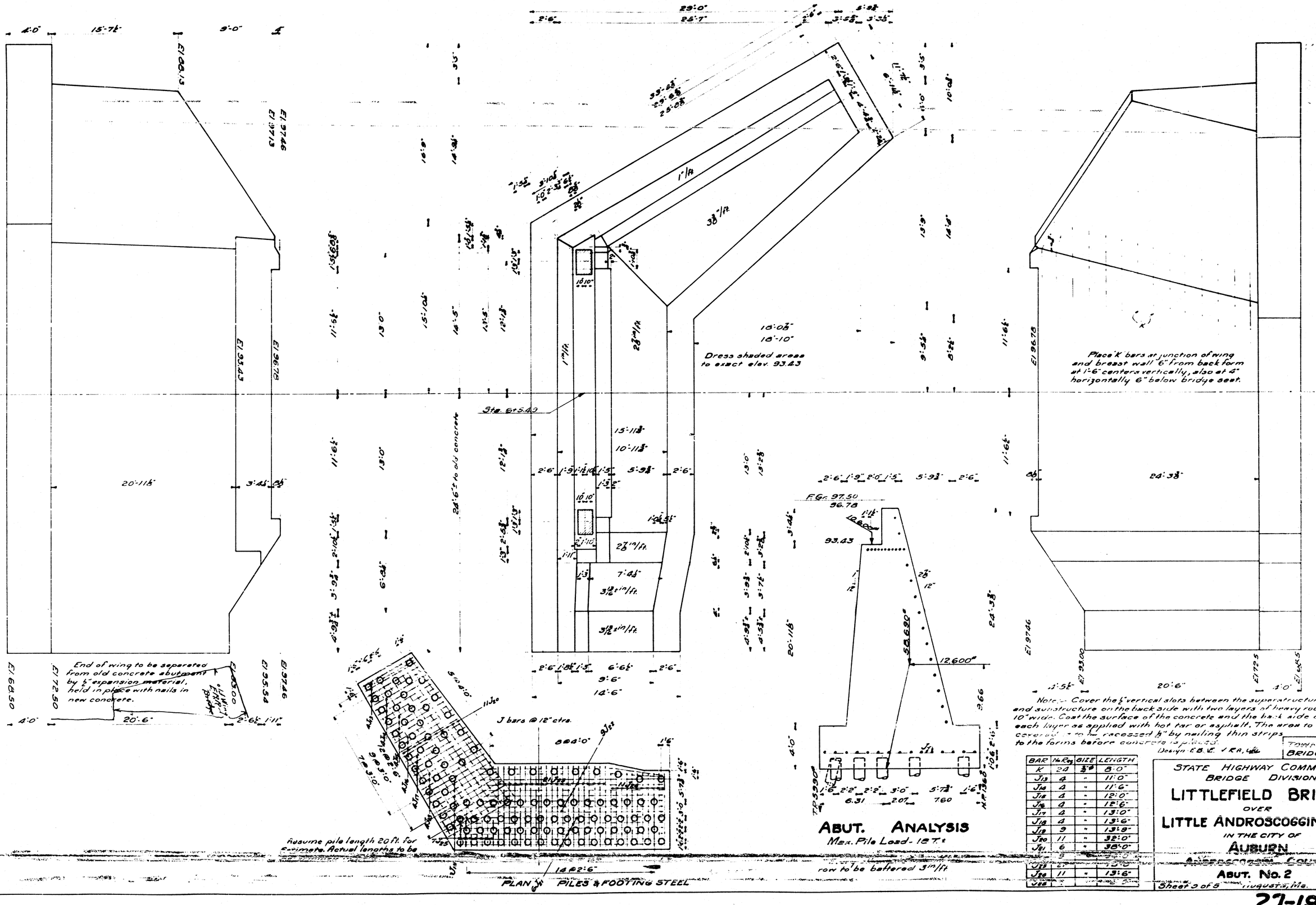
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LITTLEFIELD BRIDGE
OVER
LITTLE ANDROSCOGGIN RIVER
IN THE CITY OF
AUBURN

ABUT. No. 1.

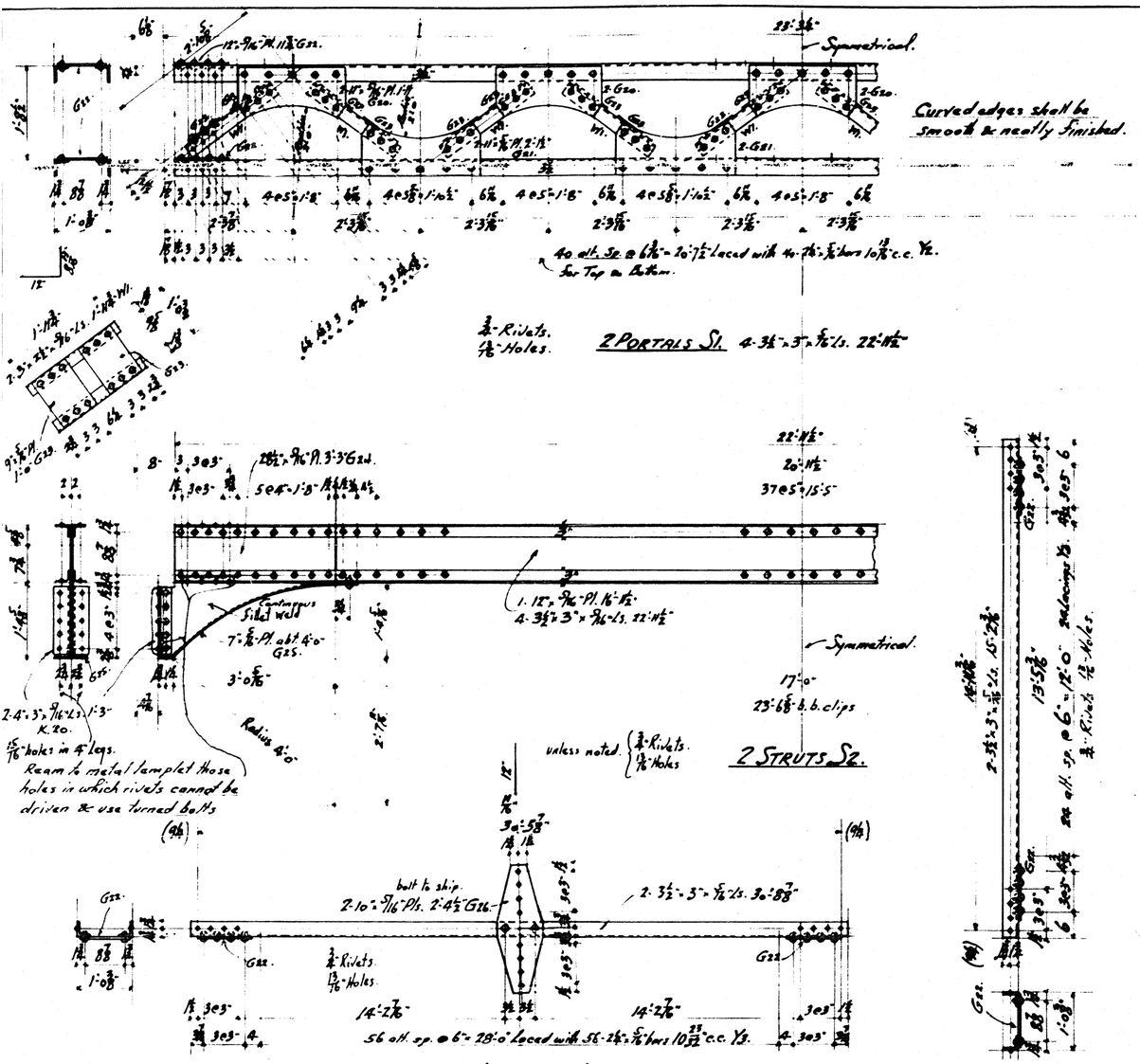
[illegible] Augusta, Me. June 1937

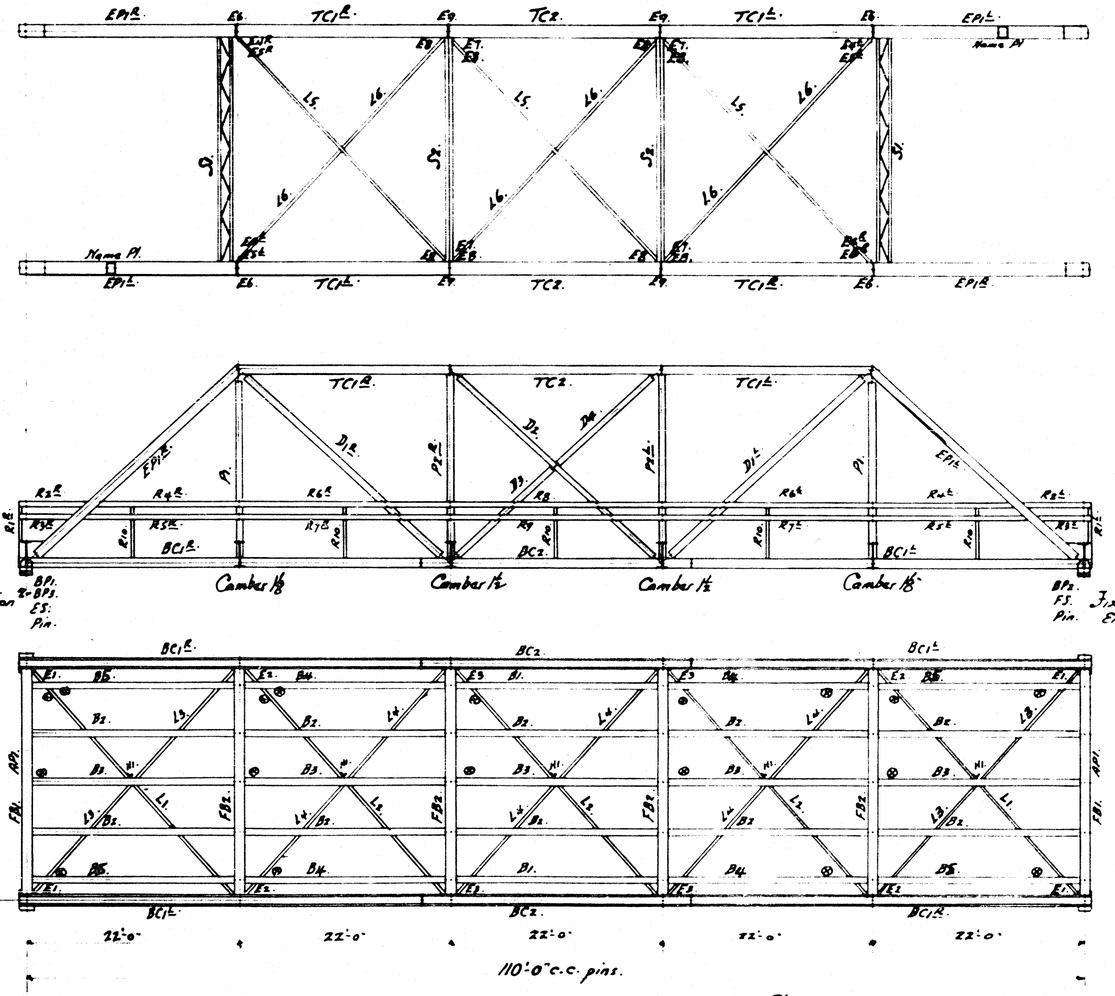
27-195



BAR	No. Req	SIZE	LENGTH
K	24	⅝ ø	8'-0"
J13	4	"	11'-0"
J14	4	"	11'-6"
J15	4	"	12'-0"
J16	4	"	12'-6"
J17	4	"	13'-0"
J18	4	"	13'-6"
J19	9	"	13'-9"
J20	11	"	32'-0"
J21	6	"	38'-0"
J22	2	"	13'-0"
J23	11	"	13'-6"
J24			

27-196





LITTLEFIELD BRIDGE. AUBURN, MAINE.

Rivets: As noted.
Holes: As noted.
Field Connections: Riveted (except Railing
Shop Paint: Steel Red Lead & Linseed Oil mixed & applied per specifications.
Surfaces in contact shall not be painted.
Touch up in field same as Shop coat.

THE BERLIN CONSTRUCTION COMPANY, INC.
DRAWN BY I.W.M. DATE 7-23-37
CHECKED BY C. SCALE 1/8 & 1/4" = 1'-0"
CONTRACT NO. 9250
SHEET NO. 1 OF 3 SHEETS

27-197

2 BOTTOM CHORD BC1R.
2 " " BC1L.
2 " " BC2.
2 TOP CHORD TC1R.
2 " " TC1L.
2 " " TC2.
2 END POST EP1R.
2 " " EP1L.

2 DIAGONAL D1R.
2 " D1L.
2 " D2.
2 " D3.
2 " D4.
4 POST P1.
4 " P2.

1-8"wf. @ 33 lb. 2-2½"L. K21. M.I.E.
1-3"x 3"x 5/16"L. 1'-2" K22. near.
1-3"x 3"x 5/16"L. 2'-1½" K23. far.
1-8"x 6"x 7/16"L. 6" K24.
1-15½"x ⅞" bear. pl. 2-9½" G27.
Pin Hole painted with white Lead & Tallow.

4 PLATES E1.

4 PLATES E2.

4 PLATES E3.

Revised 8-10-37
Revised 7-30-37
Revised 7-22-37

TO BE INSPECTED

Shop to attach Name Plate to EP1L.

Block to chip ass. bottom flange.

Same as above.

Same as above.

Same as above.

Holes for field connections of main members to be sub-punched 15/16" & reamed to 1".

Symmetrical

110'-0" c.c. pins.

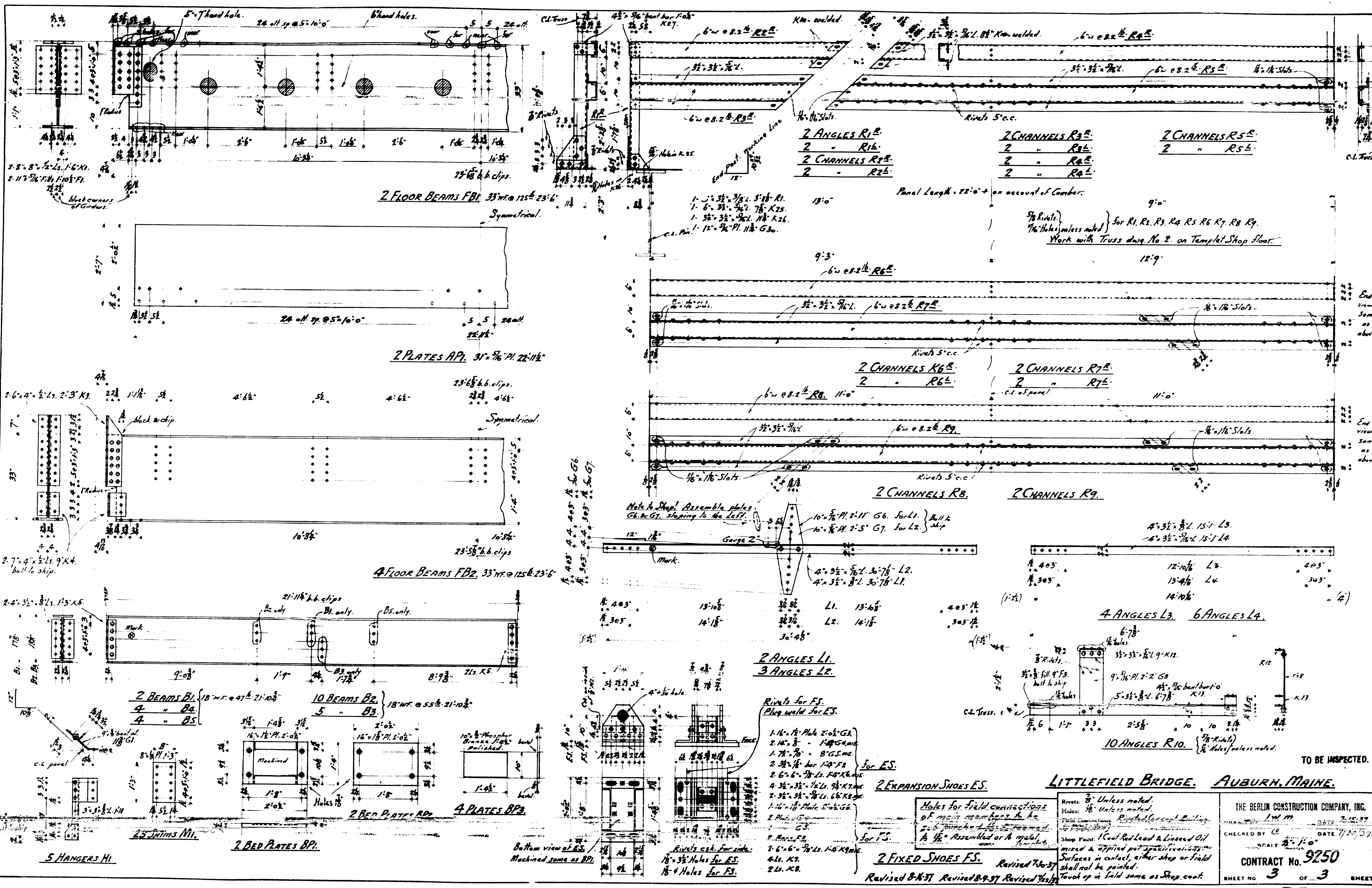
LITTLEFIELD BRIDGE. AUBURN, MAINE.

Rivets: ⅞" Unless noted.
Holes: 15/16" Unless noted.
Weld Connections: Riveted except Railing
To be Bolted
Shop Paint: (Rust Resisting Linseed Oil) mixed & applied per Specifications. Surfaces in contact, other shop or field shall not be painted. Touch up in field same as Shop coat.

THE BERLIN CONSTRUCTION COMPANY, INC.
DRAWN BY I.W.M. DATE 7-16-37
CHECKED BY C. DATE 7/30 37
SCALE 1"=2'-0" & 1"=1'-0"

CONTRACT No. 9250
SHEET NO. 2 OF 3 SHEETS

27-198


2 FLOOR BEAMS FB1. 33" WF. @ 125# 23'-6"
Symmetrical.
2 PLATES AP1. 31" x 5/16" Pl. 22'-11½"
4 FLOOR BEAMS FB2. 33" WF. @ 125# 23'-6"
2 BEAMS B1, 4 " B4, 4 " B5 } 18" WF. @ 47# 21'-10¾"
10 BEAMS B2, 5 " B3 } 18" WF. @ 55# 21'-10¾"
5 HANGERS H1
25 SHIMS M1.
2 BED PLATES BP1.
2 BED PLATES BP2
4 PLATES BP3.
2 ANGLES R1R.
2 " R1L.
2 CHANNELS R2R.
2 " R2L.
2 CHANNELS R3R.
2 " R3L.
2 " R4R.
2 " R4L.
2 CHANNELS R5R.
2 " R5L.
Panel Length = 22'-0" + on account of Camber.
Work with Truss dwg. No. 2. on Templet Shop floor.
2 CHANNELS R6R.
2 " R6L.
2 CHANNELS R7R.
2 " R7L.
2 CHANNELS R8.
2 CHANNELS R9.
Note to Shop! Assemble plates G6. & G7. Sloping to the left.
2 ANGLES L1.
3 ANGLES L2.
4 ANGLES L3.
6 ANGLES L4.
10 ANGLES R10.
Rivets for FS.
Plug weld for ES.
2 EXPANSION SHOES ES.
2 FIXED SHOES FS.
Bottom view of ES. Machined same as BP1.
TO BE INSPECTED.
LITTLEFIELD BRIDGE. AUBURN, MAINE.
Revised 7-30-37
Revised 8-16-37 Revised 8-9-37 Revised 7/22/37
Rivets: 7/8" Unless noted.
Holes: 15/16" Unless noted.
Shop Paint: 1 Coat Red Lead & Linseed Oil mixed & applied per specifications. Surfaces in contact, either shop or field shall not be painted. Touch up in field same as Shop coat.
THE BERLIN CONSTRUCTION COMPANY, INC.
CHECKED BY
DATE 7/23/37
SCALE
CONTRACT No. 9250
SHEET NO. 3 OF 3 SHEETS
27-199

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	0217(3)	19	70

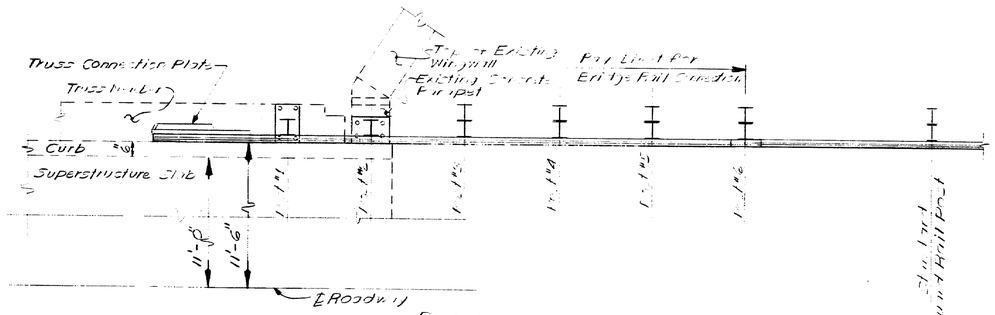
GENERAL NOTES

1) All beam rail splices, bolts, washers, connection brackets, posts and other metal accessories shall be galvanized in accordance with the requirements of Section 606 of the Standard Specifications.

2) Replace all rivets removed with High Strength bolts ASTM A325.

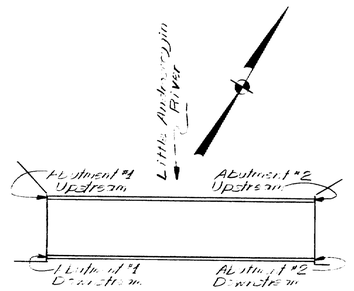
3) Thrie Beam and Transition Beams shall be [illegible] unless otherwise noted.

4) Payment for all work and material to furnish and install this bridge rail will be paid for under Item 606.172 Bridge Connection.



PLAN

Rail Connections at Abutment #1 Downstream and Abutment #2 Upstream Shown. Abutment #1 Upstream and Abutment #2 Downstream are Opposite Hand.

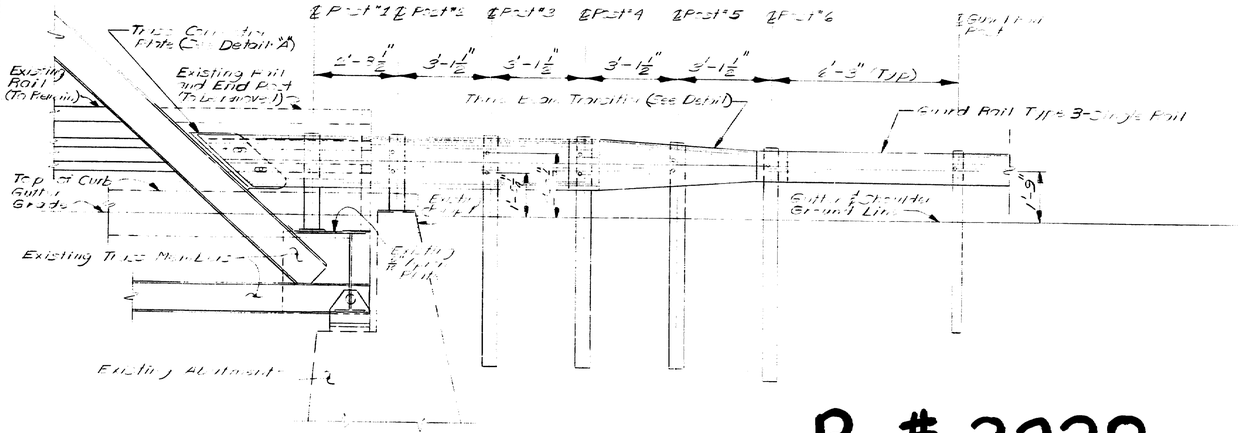


BRIDGE RAIL CONNECTION LOCATIONS

REFERENCES

For Guard Rail Details not shown see Standard Detail Sheet (2).

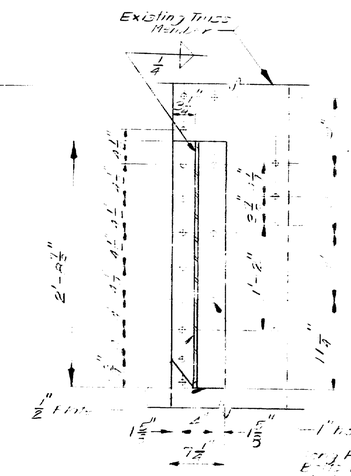
For Special Post Details "B", "C" and "D" and Offset Bracket Details see Sheet 2 of 2.



ELEVATION

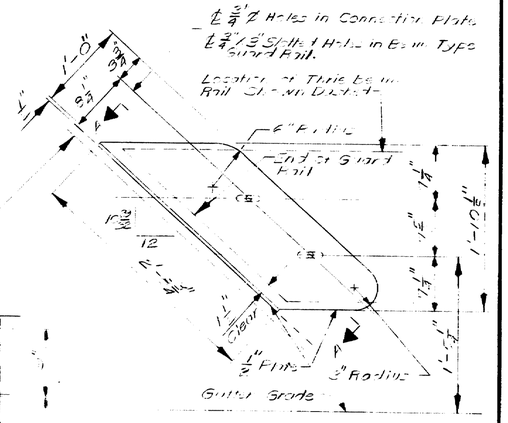
GUARD RAIL CONNECTION TO EXISTING TRUSS

(4 Connections Required)



SECTION A-A

(Guard Rail Not Shown)



DETAIL "A"

(Truss Connection Not Shown)

Bridge No. 3338

Br.# 3338

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

LITTLEFIELD BRIDGE
OVER
LITTLE ANDROSCOGGIN RIVER
IN THE CITY OF
AUBURN
ANDROSCOGGIN COUNTY
BRIDGE CONNECTION

SHEET 1 OF 2 AUGUSTA, MAINE March, 1989

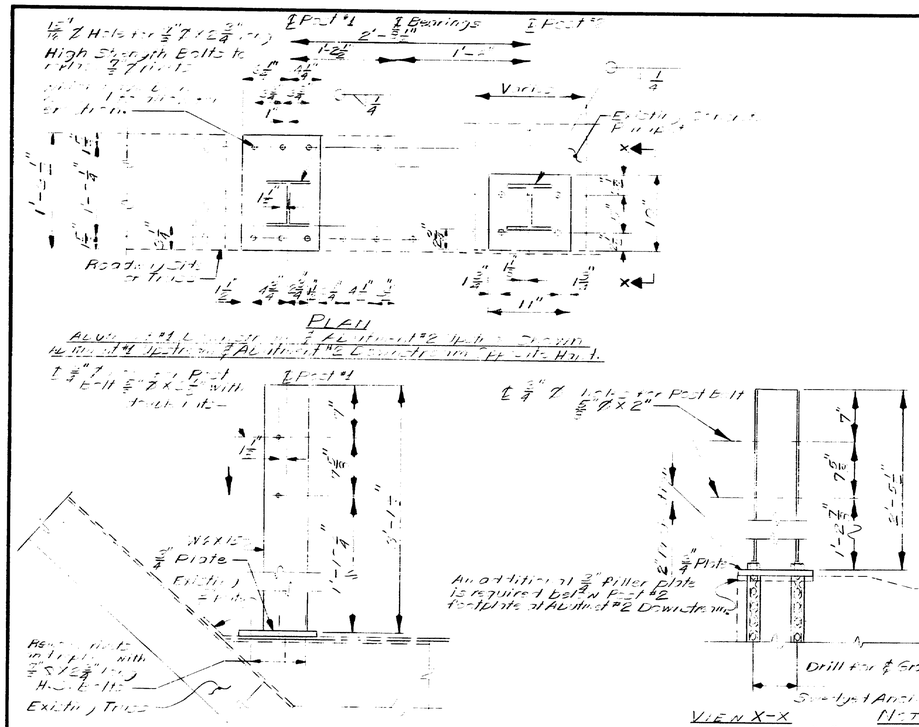
PROJECT DESIGN ENGINEER — PLANS

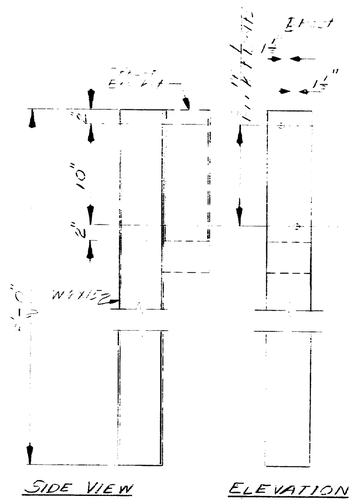
	BY	DATE
DESIGN - DETAILED	V.T.F.	11-[illegible]
CHECKED	[illegible]	3-[illegible]
REVISIONS		
FIELD CHANGES		

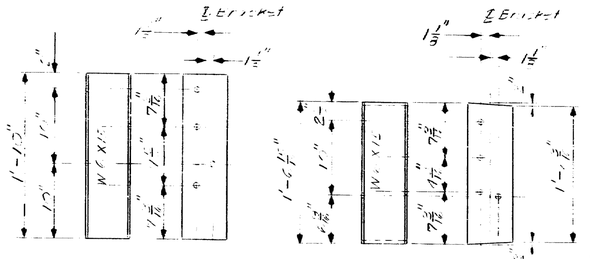
BRUNING 44-132-45710

R89-383

F.A.P. & REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	0217(3)	20	70

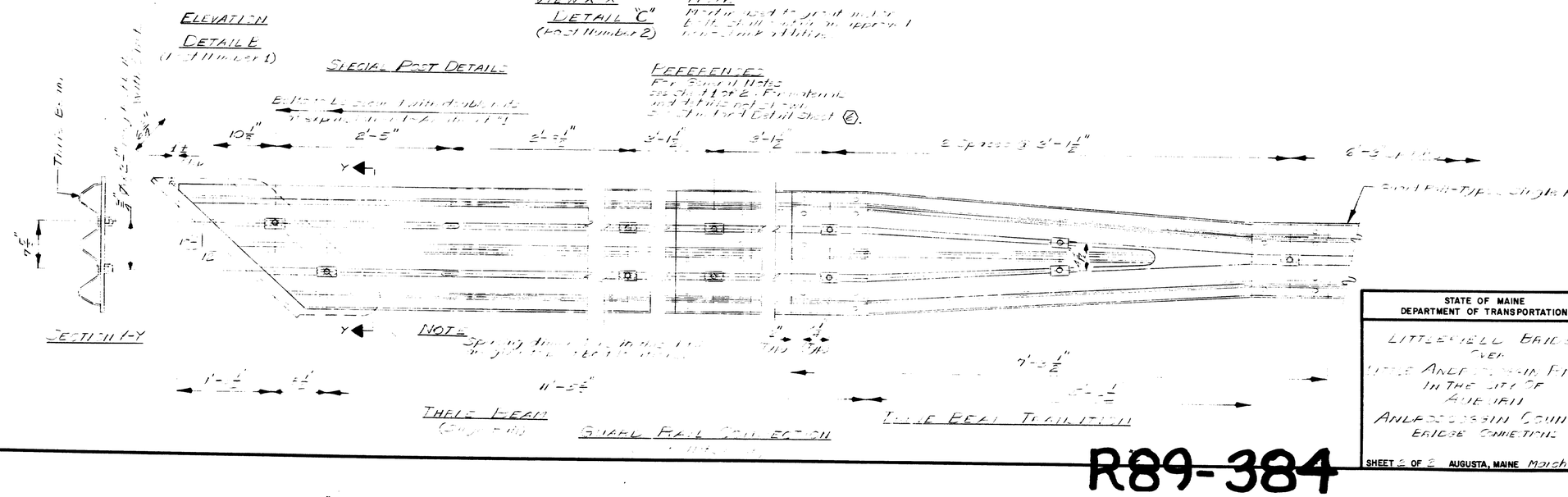






Note

Offset brackets for posts #3, #4 & #5 shown in Post Alignment #1 Downstream and Alignment #2 Upstream. Alignment #1 Upstream and Alignment #2 Downstream offset brackets for Post #3, #4 & #5 are opposite hand. Post identification marks in front flange are to match holes in post #3 thru #6.



References

For General Notes see Sheets #1 or #2. For materials and details not shown see Standard Detail Sheet (6).

PROJECT DESIGN ENGINEER — PLANS

	BY	DATE
DESIGN - DETAILED	LTF	
CHECKED		
REVISIONS		
FIELD CHANGES		

BRUNING A4 132-49710

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

LITTLEFIELD BRIDGE
OVER
LITTLE ANDROSCOGGIN RIVER
IN THE CITY OF
AUBURN
ANDROSCOGGIN COUNTY
BRIDGE CONNECTION

SHEET 2 OF 2 AUGUSTA, MAINE March 1989

R89-384